

# **THABAZIMBI MINE**

# **PROJECT INFINITY**

**Discussion with LEDET – change of scope of works**

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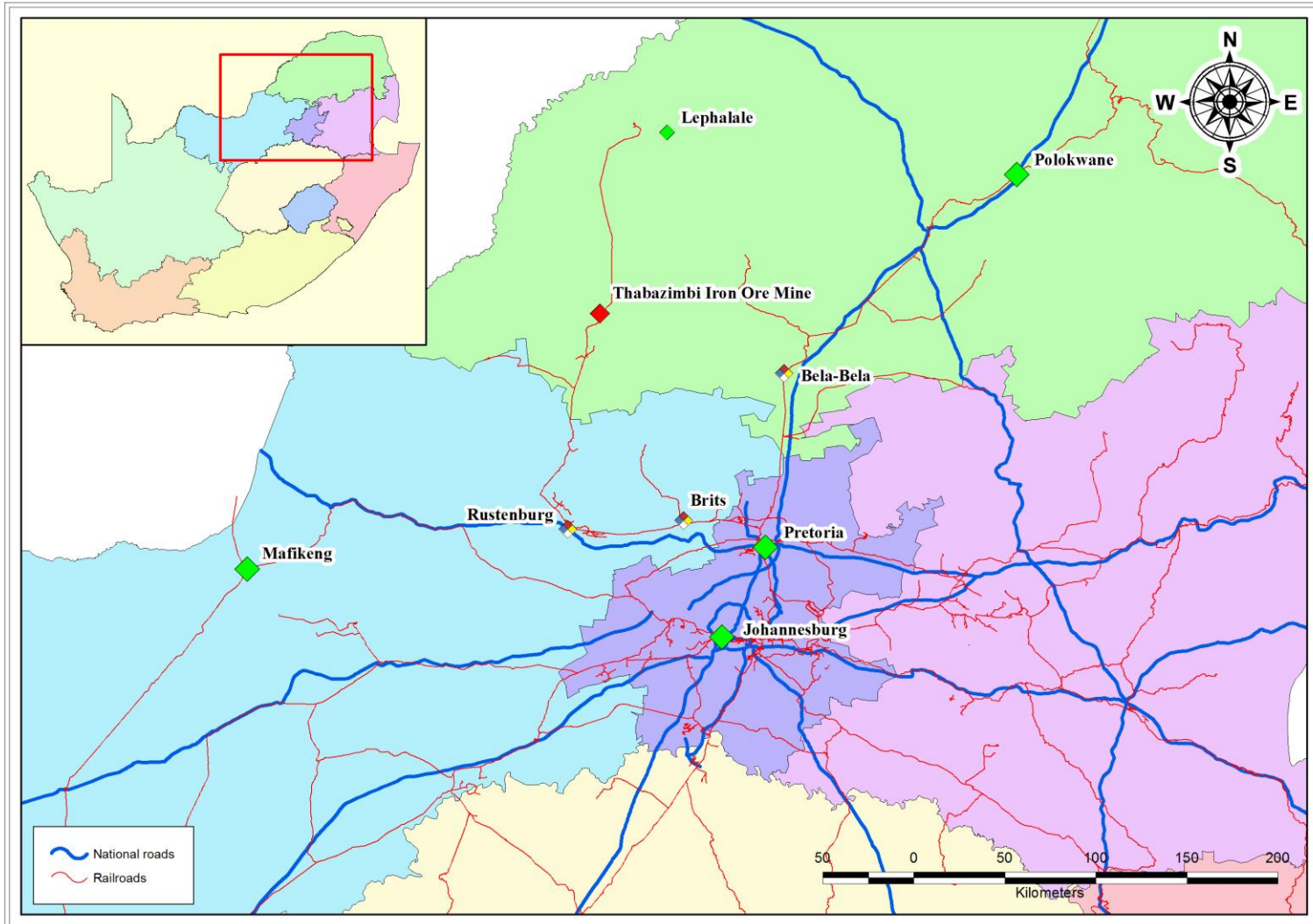
1. Purpose of the meeting
2. Background to Project Infinity
3. Discussion of change of activities
4. Discussion of a new listed activities
5. Timeframes
6. Road ahead

# 1. PURPOSE OF THE MEETING

- Present the proposed changes of the project to LEDET,
- Discuss the proposed changes and process to be followed,
- Discuss new listed activities,
- Obtain clarity on application of new identified listed activities,
- Achieve agreement on the application process (activities & timeframes).

# 2. BACKGROUND

# LOCALITY MAP



## Motivation for Project Infinity

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Thabazimbi Mine - Project Phoenix was placed on ice end 31 May 2013 due to different reasons (opportunity for improved business case and timing of the project development).

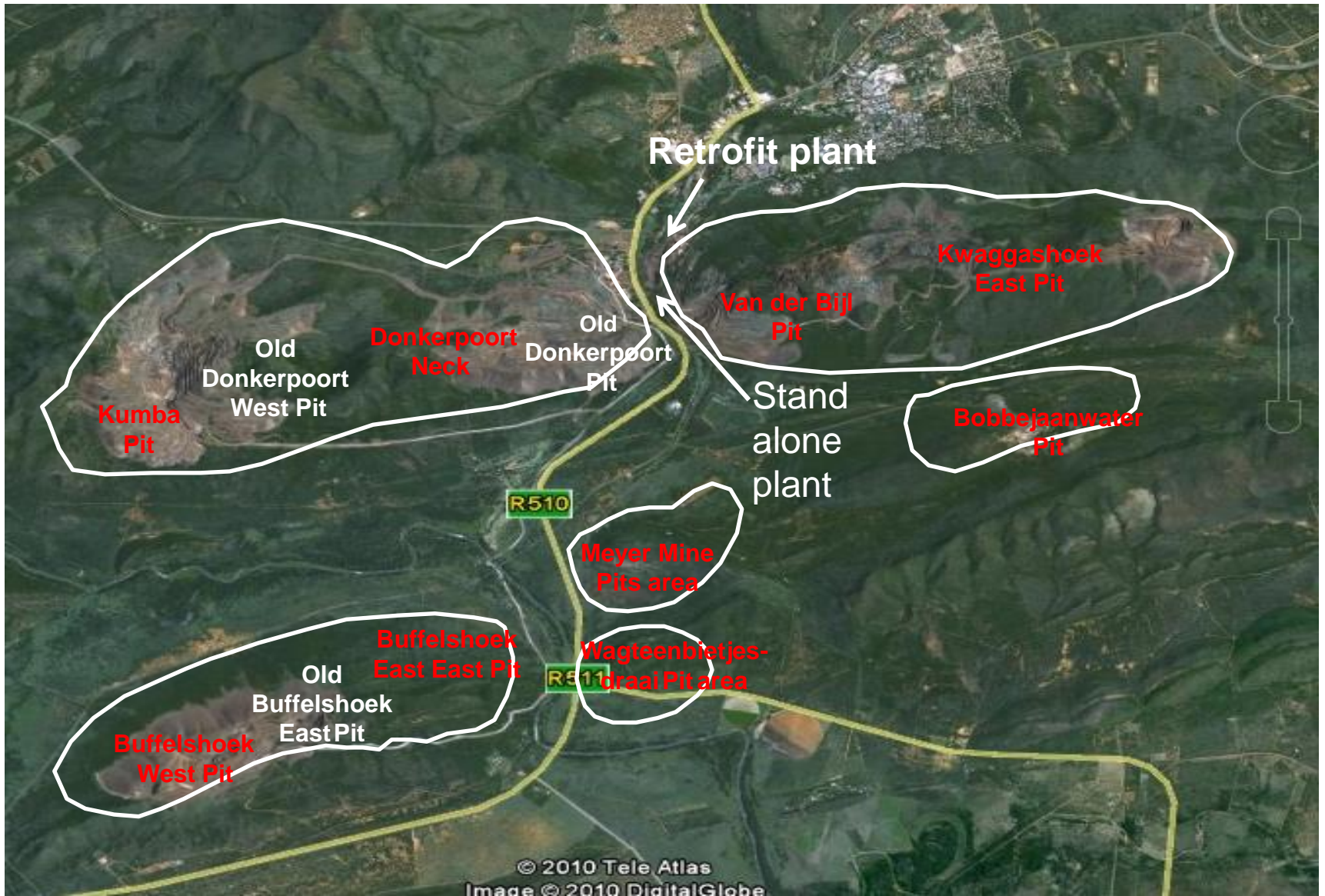
Project Phoenix entailed the development of a new project which included a new plant, slimes dam, open pit development, bridge etc. During negotiations with AMSA an opportunity to better utilise the existing asset was identified. The project was therefore redefined.

Thabazimbi Low Grade Retrofit (TLGR) project was defined as the retrofitting of the existing Thabazimbi Plant and associated infrastructure to optimise the processing of the low grade resource. One component of the project entails removal of the discard dump adjacent of the Rooikuispruit to facilitate additional infrastructure placement close to the existing plant.

The project was officially named Project Infinity on the 29 August 2013.

# 3. DISCUSSION OF VARIOUS ACTIVITIES

















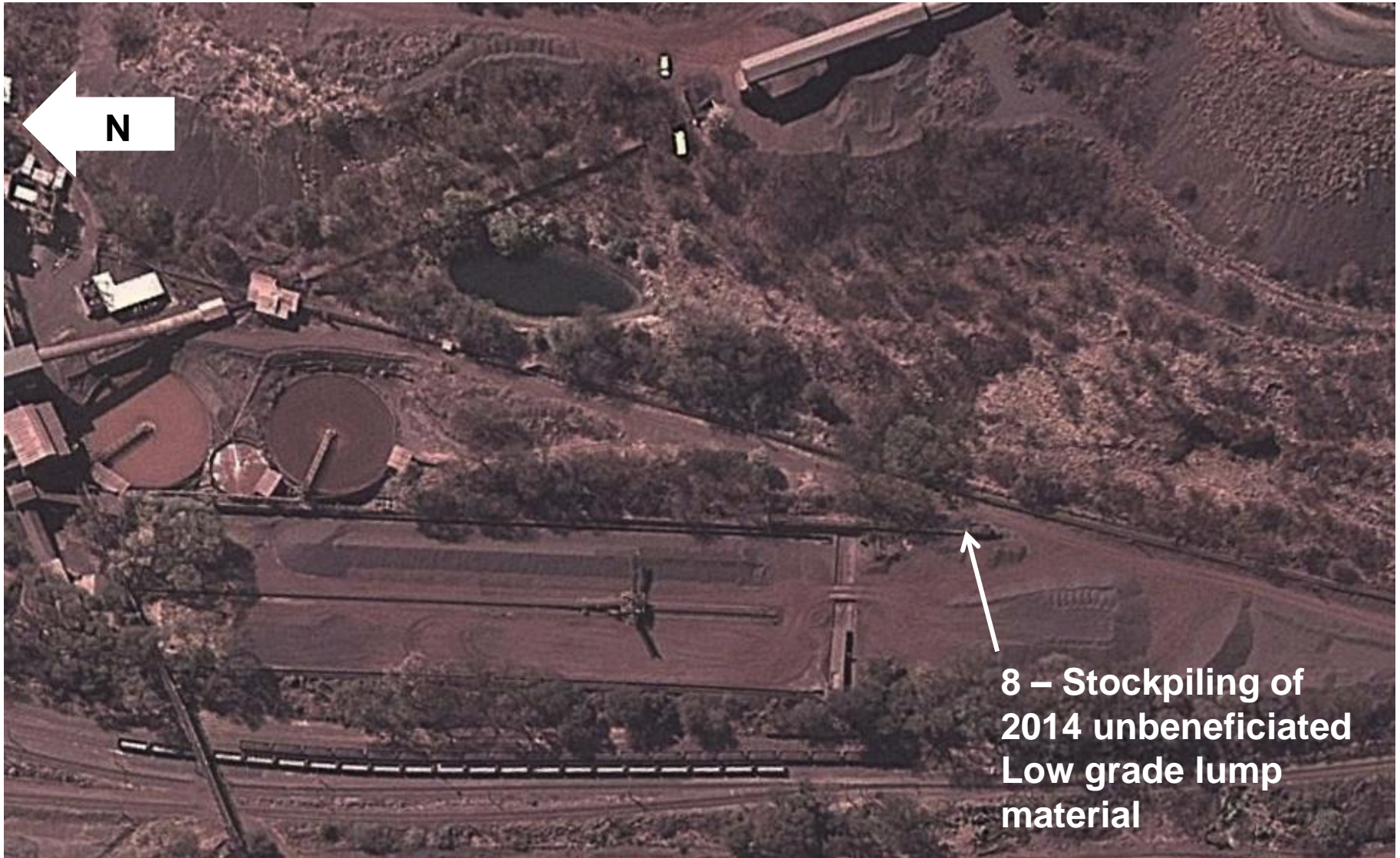




6 – Upgrading of existing DMS  
Plant equipment for same  
Throughput & media recovery  
From 2.8 t/m<sup>3</sup> to 4.1 t/m<sup>3</sup> circuit  
Medium density

7 – Installing new 1mm  
Beneficiation circuit into  
existing refurbished  
structural steel above  
existing plant civils





**8 – Stockpiling of  
2014 unbeneficiated  
Low grade lump  
material**



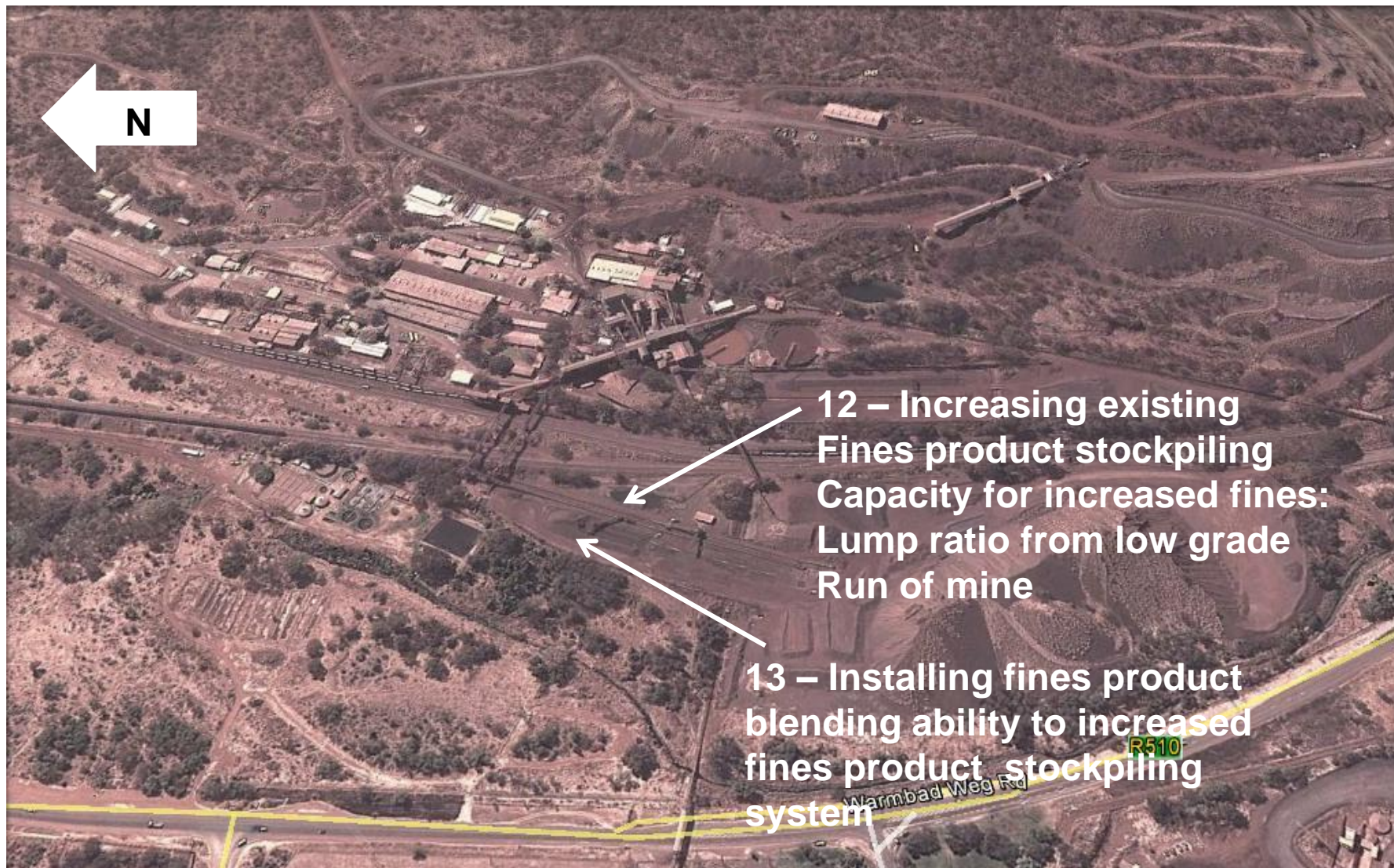


**9 – Construction of  
a new slimes dam 5  
Before existing run  
Out of capacity**

















# 4. DISCUSSION OF A NEW LISTED ACTIVITY

## Proposed Infinity listed activities (included in EIA form submitted)

Number and date of the relevant notice	Activity No	Description
Government Notice R 545 18 June 2010 Listing Notice 2	<b>Activity 5</b> The construction of facilities or infrastructure for any process or activity which requires a permit or license in terms of national or provincial legislation governing the generation or release of emissions, pollution or effluent and which is not identified in Notice No. 544 of 2010 or included in the list of waste management activities published in terms of section 19 of the National Environmental Management: Waste Act, 2008 (Act No. 59 of 2008) in which case that Act will apply.	<del>Pipelines consisting of two slimes and one return water pipelines with diameter of 150mm (each) and length of ±6 kilometres for the purpose of delivering slimes from the new plant to the slimes dam and return water from the slimes dam.</del>  Construction of slimes dam number 5.

<b>Number and date of the relevant notice</b>	<b>Activity No</b>	<b>Description</b>
<p>Government Notice R. 544 18 June 2010 Listing Notice 1</p>	<p><b>Activity 9</b> The construction of facilities or infrastructure exceeding 1000 metres in length for the bulk transportation of water, sewage or storm water - (i) with an internal diameter of 0,36 metres or more; or (ii) with a peak throughput of 120 litres per second or more, excluding where: a. such facilities or infrastructure are for bulk transportation of water, sewage or storm water or storm water drainage inside a road reserve; or b. where such construction will occur within urban areas but further than 32 metres from a watercourse, measured from the edge of the watercourse.</p>	<p>Construction of ±6 kilometres, two 150mm diameter (each) slimes pipelines delivering slimes from the new plant to the slimes dam and one 150mm diameter return water pipeline with a combined throughput of more than 120ℓ per second.</p>

<b>Number and date of the relevant notice</b>	<b>Activity No</b>	<b>Description</b>
Government Notice R 545 18 June 2010 Listing Notice 2	<b>Activity 5</b> The construction of facilities or infrastructure for any process or activity which requires a permit or license in terms of national or provincial legislation governing the generation or release of emissions, pollution or effluent and which is not identified in Notice No. 544 of 2010 or included in the list of waste management activities published in terms of section 19 of the National Environmental Management: Waste Act, 2008 (Act No. 59 of 2008) in which case that Act will apply.	<del>Conveyor structures crossing the Rooikuispruit transporting ore from the plant load out station approximately 4 kilometre and crossing Rooikuispruit from the crusher to the plant approximately 4 kilometres in length resulting in impediment and diversion of the flow of water and alteration of the bed and banks in the Rooikuispruit.</del>

Number and date of the relevant notice	Activity No	Description
<p>Government Notice R. 544 18 June 2010 Listing Notice 1</p>	<p><b>Activity 53</b> The expansion of railway lines, stations or shunting yards where there will be an increased development footprint – Excluding: (i) railway lines, shunting yards and railway stations in industrial complexes or zones (ii) underground railway lines in mines (iii) and additional railway lines within the reserve of an existing railway line.</p>	<p>Lengthening of the existing railway lines by approximately 15m each.</p>
<p>Government Notice R. 544 18 June 2010 Listing Notice 1</p>	<p><b>Activity 47</b> The widening of a road by more than 6 metres, or the lengthening of a road by more than 1 kilometre - (i) where the existing reserve is wider than 13,5 meters; or (ii) where no reserve exists, where the existing road is wider than 8 metres – excluding widening or lengthening occurring inside urban areas</p>	<p>Construction of haul roads 10-20km in length within the mining area with a width of 30 meters.</p>



<b>Number and date of the relevant notice</b>	<b>Activity No</b>	<b>Description</b>
Government Notice R 545 18 June 2010 Listing Notice 2	<b>Activity 5</b> The construction of facilities or infrastructure for any process or activity which requires a permit or license in terms of national or provincial legislation governing the generation or release of emissions, pollution or effluent and which is not identified in Notice No. 544 of 2010 or included in the list of waste management activities published in terms of section 19 of the National Environmental Management: Waste Act, 2008 (Act No. 59 of 2008) in which case that Act will apply.	Various existing and future infrastructure e.g. haul roads, waste rock dumps and slimes dam facilities that alter storm water drainage lines originating in the Kwaggashoek, Van der Bijl, Bobbejaanwater, Donkerpoort, Buffelshoek and Meyer mine areas that require a water use license Section 21 (c) (impeding or diverting the flow of water in a watercourse & (i) (altering the bed, banks, course or characteristics of a watercourse)).

## Proposed new Infinity listed activity

Number and date of the relevant notice	Activity No	Description
Government Notice R 546 18 June 2010 Listing Notice 3	<b>Activity 14</b> The clearance of an area of 5 hectares or more of vegetation where 75% or more of the vegetative cover constitutes indigenous vegetation, except where such removal of vegetation is required	Slimes dam disturbance larger than 20ha.  Disturbance of 6 and 4 ha of stockpile storage areas at the primary crushers. Expansion of the plant discard dump and construction of the modular plant.
Government Notice R544 18 June 2010 Listing Notice 1	<b>Activity 11</b> The construction of: (i) canals; (ii) channels; where such construction occurs within a watercourse or within 32 metres of a watercourse, measured from the edge of a watercourse, excluding where such construction will occur behind the development setback line	Stormwater canals or channels around the Slimes dam to collect all runoff water from the surrounding areas.

# **5. PROCESS TO BE FOLLOWED AND ASSOCIATED TIMEFRAMES FOR AUTHORISATIONS**

## **Environmental Impact Assessment phase & associated specialist studies**

Commence with the EIA phase in November 2013 (after the department accepts the final Scoping report submitted by the end of October 2013).

- Climate assessment.
- Geo-hydrological assessment.
- Traffic study.
- Social Impact Assessment.
- Paleontological Study.
- Visual Study.
- Noise Study.
- Economic Study.
- Air quality Study.
- Biodiversity Study.
- Hydrology Study.
- Blasting and Vibration Study.
- Reptile and amphibian Study.

**For Information:**

**Water Use License (National Water Act, Act 36 of 1998)**

Thabazimbi currently has a Water use license for Section 21 (g) disposing of waste in a manner which may detrimentally impact on a water resource;  
For the Slimes dam .

Section 21 (c) impeding or diverting the flow of water in a watercourse and (i) altering the bed, banks, course or characteristics of a watercourse license applications for the slimes dam facility, pipelines and crossings are in process.

**For Information:**

**Environmental Management Programme (Mineral Petroleum Resources Development Act, Act 28, 2002)**

Thabazimbi EMPr Amendment was approved in July 2013 which included the Slimes dam.

Instead of amending the approved EMPr the client wants to submit a Section 2 (2) plan substitute detailing Project Infinity infrastructure and a motivation to DMR.

# 6. ROAD AHEAD

**THANK YOU**