

## MINUTES AND KEY NOTES OF OPEN DAY

**PROJECT NAME:** Da-ma Colliery, New Water Use License Application  
**DATE:** 10 April 2019  
**TIME:** 10:00am- 15:00pm  
**LOCATION:** Utrecht Town Hall, Utrecht, Kwa-Zulu Natal

### 1 Attendance:

Name:	Initial:	Company / Farm / Institution:
Ken van Rooyen	KvR	Cabanga Environmental
Michelle Venter	MV	Cabanga Environmental
Malcolm Pryde	MP	Thutha Amalahle Transport And Construction (Pty) Ltd: Da-ma Colliery (CEO)
Stephen Taylor	ST	Thutha Amalahle Transport And Construction (Pty) Ltd: Da-ma Colliery (Mine Manager)
Khululiwe Mathenjwa	KM	Thutha Amalahle Transport And Construction (Pty) Ltd: Da-ma Colliery (Environmental Control Officer- Zulu Translator)
Alfred Mndebele	AM	Interested and Affected Party
Alpha Mlhele	AM	Swartkop
Andre Smit	AS	Wasbank Portion 2 Farm Owner
Barbara	B	Da-ma Colliery
Bongani Dladlo	BD	Interested and Affected Party
Bronywn Howard	BH	Urban Eco Life
Chris Mortassagne	CM	Farm Leeuwfontein
Deli Ndlozi	DN	Sowing
Falakhe Khumalo	FK	Interested and Affected Party
Fezile Smelange	FS	Interested and Affected Party
Ghabangu Njabulo	GN	Interested and Affected Party

Name:	Initial:	Company / Farm / Institution:
Juliet Nxumalo	JN	Sowing
Lungelo Mnguni	LM	Interested and Affected Party
Lungile Khumalo	LK	Interested and Affected Party
Mafika	M	Malhangeni
Mbali Khumalo	MK	Interested and Affected Party
Mbali Simelong	MS	Interested and Affected Party
Mbuyiseni Mfusi	MM	Interested and Affected Party
Melonza Sphamandla	MS	Interested and Affected Party
Mfusi Thuli	MT	Interested and Affected Party
MI Dlovu	MD	Interested and Affected Party
Mkhwanazi Zinhle	MZ	Interested and Affected Party
Mlindeni Khumalo	MK	Interested and Affected Party
Mort Mortassagne	MM	Farm Leeuwfontein
Mthunzi Mlotshue	MM	Interested and Affected Party
Ndlozi Nompumelelo	NN	Interested and Affected Party
Ndlozi Thembelani	NT	Interested and Affected Party
Ndoda Nhlengethwa	NN	Interested and Affected Party
Nkosingiphile Ramutla	NR	Interested and Affected Party
Nokuthula Mfusi	NM	Leeuwfontein Portion 8 Farm Owner
Nokwazi Zulu	NZ	Interested and Affected Party
Nomwula Shabangu	NS	Interested and Affected Party
Nontobeko Nene	NN	Hattang
Nonxumalo	N	Malhangeni
Org Viviers	OV	Wasbank Farm Owner

Name:	Initial:	Company / Farm / Institution:
Sanette Viljoen	SV	SV Legal Consultant
Shabangu Nonjabulo	SN	Interested and Affected Party
Sifiso Harry	SH	Leeuwfontein Portion 8 Farm Owner
Siphamandla Mfusi	SM	Leeuwfontein Portion 8 Farm Owner
Sizwe Khumalo	SK	Interested and Affected Party
Thando Mfusi	TM	Leeuwfontein Portion 8 Farm Owner
Thembi	T	Da-ma Colliery
Thembisile Ndlozi	TN	Interested and Affected Party
Tozi Nxumalo	TN	Sowing
Zandile Mlambho	ZM	Mdlangeni
Zwane Sandile	ZS	Interested and Affected Party

## 2 Project Description:

Da-ma Colliery is an operational coal mine located near the town of Utrecht, KwaZulu Natal, South Africa.

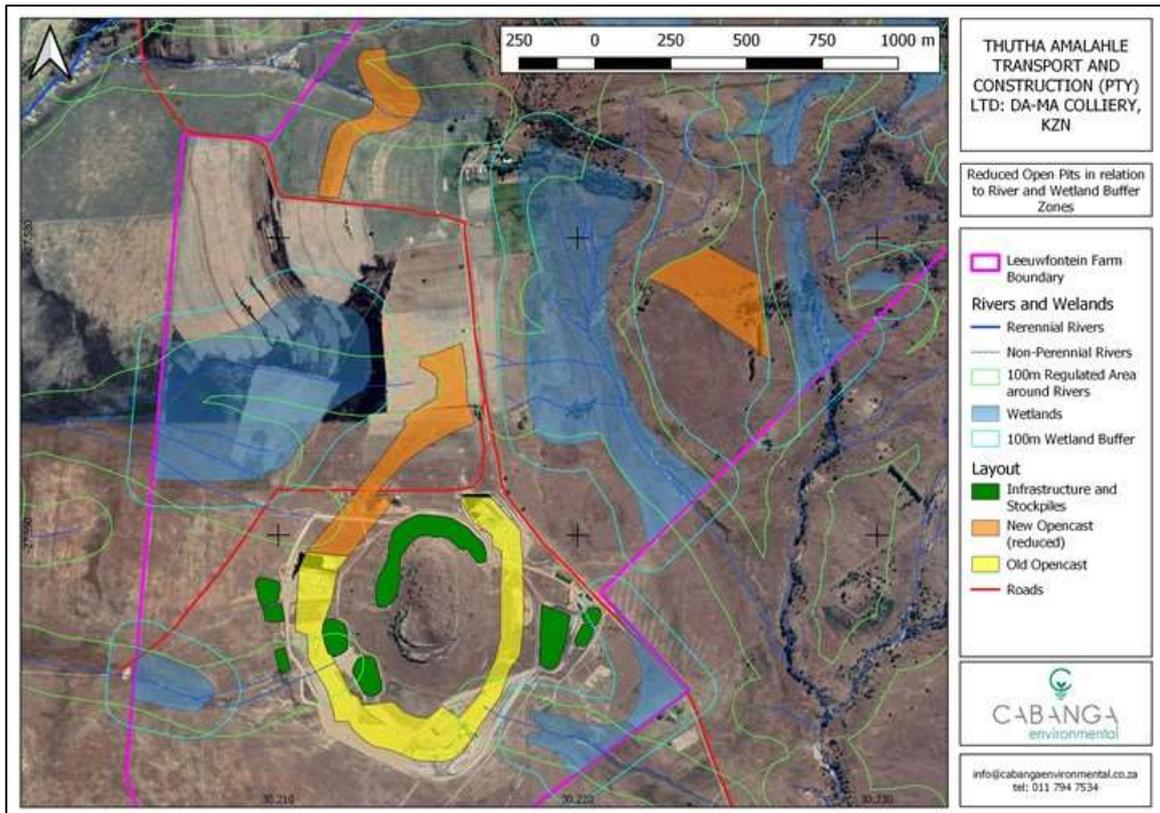
Da-ma Colliery has an approved Integrated Water Use License for its existing opencast mining and future underground workings.

At the time of the original Integrated Water Use License Application (IWULA) opencast mining was largely completed and it was understood that future mining activities would be limited to underground mining. However on further investigations the mine plan has been reviewed and additional opencastable reserves have been identified. The following are new water uses are thus being applied for:

- 21 (a): Taking water from a water resource – abstraction of water from an on-site borehole for potable water supply to the mine;
- 21 (c) and (i): Impeding or diverting the flow of water within a watercourse and/or Altering the bed, banks, course or characteristics of a watercourse – mining through a non-perennial drainage line;
- 21 (i): Altering the bed, banks, course or characteristics of a watercourse – mining within the regulated area (<500m) of a wetland;
- 21 (g): Disposing of a waste in a manner which may detrimentally impact on a water resource – overburden stockpiles; and

- 21(j): Removing, discharging or disposing of water found underground if it is necessary for the efficient continuation of an activity or for the safety of people – Dewatering of the proposed new opencast pits.

The initial mine plan proposed to mine via open pit methods through the wetlands on site, however the mine plan has been adjusted and the open pit areas reduced to preserve these wetlands. The applicant does propose to mine through one non-perennial stream, that doesn't feed wetlands, (Plan 1 the northern most pit).



### Plan 1 Proposed Opencast

The new opencast areas will have a life of mine of three years and the previously approved underground 14-20 years.

Dirty water will be circulated around the site and used for dust suppression. No dirty water will come into contact with the clean environment. Dirty water will be pumped to the pollution control dam where it will be stored until use for dust suppression, or it will be pumped directly into a dust cart from the pit and used for dust suppression. Borehole water will be used for drinking and domestic purposes.

No water will be required for the process. Coal will be trucked to Chelmsford Colliery, south of Newcastle, where it will be crushed, screened and further processed. There is a chance that in the future a mobile crusher and screener will be utilized but this process does not require water.

### 3 Concerns/Questions and Answers:

Name	Concern/Question	Answer (from report(s) or verbally given at Open Day)
Chris Mortassagne (CM)	The wetlands in the bottom right corner of the mining right are no longer wet, they are dry. The community there have no water as the boreholes are dry. The community has asked if the I&AP, from the adjacent farm Leeuwfontein, can pipe their spring water to the community so they have access to water.	<p>Noted.</p> <p>Borehole VBA4 is the closest monitoring point to Chris Mortassagne.</p> <p>VBA4 has a Sodium-chloride water type. When analysing the water quality of these samples it is more likely that the source of sodium is as a result of natural factors such as the build-up of salts in the water as a result of chemical weathering of minerals and/or the intersection of marine deposits during borehole drilling.</p> <p>A spike in Calcium, Chloride and Sodium levels are noted in borehole VBA4 during the July 2018 sampling event. Considering trends throughout the monitoring network, this spike is most likely due to old operations east of Da- ma Colliery, or anthropogenic factors such as the use of salt licks in close proximity to the borehole.</p>
Andre Smit (AS)	The I&AP indicated that If any issues arise in the future with Da- ma Colliery, he will report it immediately.	Noted.
Mort Mortassagne (MM)	The I&AP communicated that he is against this mine and indicated they have a lot of issues: Mines	It is possible that the drought has caused the decrease in water. VBA4

	<p>come to the area and promise a lot but nothing ever materialises.</p> <p>He expressed that the roads are in a terrible condition from Da-ma Colliery. The I&amp;AP reported that 5-6 years ago the mine got water from them. He continued that If the mine bought his farm then they can do whatever they wish.</p> <p>The I&amp;AP stated that he believes blasting from the mine has made the water dry up.</p> <p>The I&amp;AP pointed out that there is a dust problem that settles on his land affecting grazing.</p> <p>Further the I&amp;AP stated that there is seepage from the mine that comes out on his property, the water leaves behind a white sediment.</p> <p>The I&amp;AP raised concerns that when mines come into the area they take his farm workers to work on the mine, but the people still live on his farm and don't work for him, and he doesn't get compensated for this. When the farm workers are let go by the mines they come back to his farm to look for work again.</p> <p>The I&amp;AP stated that there are a lot of negatives when a mine comes into the area such as an influx of job seekers; this goes hand in hand with an increase in stock theft and hunting of their stock.</p>	<p>groundwater levels have stayed reasonably constant during 2018. VBA4 is the nearest monitoring point to the area in question.</p> <p>Dust suppression and dust monitoring takes place on the mine.</p> <p>The location where seepage is said to be occurring is closest to monitoring points VBA4 (borehole) and SW07 (surface water). VBA4 had elevated levels in Calcium, Chloride and Sodium levels. Four key water quality indicators were selected for analysis of potential coal contamination at the Da-ma Colliery for analyses, namely: pH, Electrical Conductivity (EC), Calcium (Ca) and Sulphate (SO<sub>4</sub>). Considering trends throughout the monitoring network (such as upstream trends), the spike is most likely due to old operations east of Da- ma Colliery, or anthropogenic factors such as the use of salt licks in close proximity to the borehole.</p> <p>SW07 was dry during November 2018. As an appendix of the IWWMP, the Fourth Quarter and Annual Water Monitoring Report, the results prior to November 2018 indicated Calcium-Magnesium bicarbonate water type, for SW07, which is seen as unpolluted by mining.</p>
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<p>Org Viviers (OV)</p>	<p>The I&amp;AP questioned: if you are not allowed to mine within 500 metre of a wetland then how is the Mine applying for this? As Pit 1 is 170m from a wetland and Pit 3 is 100 m from a wetland. Why does the specialist say that a 90 metre buffer has been calculated?</p>	<p>The pits are going to be within the 500m regulated area therefore the Mine needs to apply for authorisation. No-one may undertake an activity so close to a watercourse without authorisation. If the pits were 1 kilometre away the Mine would not have to apply for authorisation as the mine would not be impacting the wetland.</p> <p>The wetland specialist worked out that the pits could be 90 metres away from the wetlands without the wetlands being impacted negatively.</p>
<p>Sanette Viljoen (SV)</p>	<p>The I&amp;AP enquired to the location and level of groundwater and expressed concern that a lot more of the boreholes and springs will dry up than mentioned in the groundwater report.</p> <p>She asked where water currently comes from?</p>	<p>There are two aquifers that occur in the area, a) the upper weathered material, and b) the underlying competent and fractured rock material. Direct recharge from rainfall can occur where the fractured, competent rock outcrops. Groundwater flows in the lower aquifer are</p>

	<p>The I&amp;AP also asked if the mine will pump borehole water in the pit?</p> <p>The I&amp;AP questioned the hydrocensus indication that the borehole on Mr De Jager's farm is not in use but this borehole is in use. Also, the boreholes on Rusterwacht farm are in use and there are more boreholes now.</p>	<p>associated with the secondary fracturing in the competent rock and as such will be along discrete pathways associated with the fractures. Figure 9 in the IWWMP shows the aquifer in relation to elevation height.</p> <p>As per the groundwater study attached as an appendix to the IWWMP it states that at the end of life of the mine, worst case scenario, the springs DSP7 and DSP3 could dry up, not the others.</p> <p>Water is brought onto the site and utilized. The borehole, if approved, will only then be drilled and utilized.</p> <p>No, borehole water will only be utilized for drinking and domestic purposes.</p>
<p>Bronwyn Howard (BH)</p>	<p>The I&amp;AP stated that there is a problem with mines in the area. She indicated there is a mine beside Uitkomst Colliery that did not rehabilitate and now the owners are missing.</p> <p>The I&amp;AP indicated that she represents the community, and stated that the mines take water and the people are suffering. Many of the streams are dry; when one goes up the mountain there have been boreholes drilled for the people as there is no surface water.</p> <p>The I&amp;AP acknowledged she was sent the groundwater report and the decant management documents: She stated that there needs to be a more recent</p>	<p>The lack of water could be from climatic conditions as there was a drought.</p> <p>The IWWMP states that the groundwater model must be updated every two to three years.</p> <p>The anaerobic wetland will only be constructed in the event that there is decant. We aren't able to say where the anaerobic wetland will be as decanting has not occurred yet, if it will occur.</p> <p>(The EMP and Mining Right were emailed to Bronwyn Howard on 11 April 2019).</p>

	<p>groundwater study as there has been a drought since the study and also there will be more impacts. It also does not say if there will be decant or not. The decant management report doesn't give details of where the anaerobic wetland will be, how it will be constructed, when it will be constructed and what plants will be used.</p> <p>The I&amp;AP requested a copy of the mining right and the EMP.</p>	
Swartkop Farm	<p>The I&amp;AP indicated that sufficient dust suppression does not take place.</p>	<p>Dust suppression and dust monitoring takes place on the mine. 2019 dust fallout monitoring results thus far indicate that there have been no exceedances of the dustfall limits on Da-ma Colliery.</p>
T. Nxumalo (TN)	<p>The I&amp;AP stated that there is a lot of dust and black smoke.</p> <p>The I&amp;AP indicated that they have no water anymore for consumption. The water tastes bitter if there is water to drink. They cannot use it for domestic purposes. The I&amp;AP asked if they can have a borehole drilled for water or have assistance with getting water from the Mine.</p>	<p>Dust suppression and dust monitoring takes place on the mine. 2019 dust fallout monitoring results thus far indicate that there have been no exceedances of the dustfall limits on Da-ma Colliery.</p> <p>It is unknown what is causing black smoke as mine staff have not noted black smoke on site.</p> <p>The IWWMP recommends Pm<sub>10</sub> and Pm<sub>2.5</sub> testing.</p> <p>Malcolm Pryde agreed to supply the community with potable water (did not stipulate if municipal or borehole water).</p>
Mthunzi Mlotshwa (MM)	<p>The I&amp;AP asked if the borehole will service the mine only, and</p>	<p>Malcolm Pryde agreed to supply the community with</p>

	expressed that Water is a basic human need and that they need it.	potable water (did not stipulate if municipal or borehole water).
Mama Nxumalo (MN)	<p>The I&amp;AP stated that trucks for water distribution has stopped; they would like their jojo tank filled.</p> <p>The I&amp;AP further stated that blasting causes damages, and that dust management is not sufficient enough.</p>	<p>Malcolm Pryde agreed to supply the community with potable water (did not stipulate if municipal or borehole water).</p> <p>Blasting impacts and dust are monitored and managed in accordance with the relevant regulations.</p>
Naftal Nxumalo (NN)	The I&AP pointed out soil erosion in the veld which must be rectified as soon as possible. The I&AP indicated that soil and water are no longer suitable for crops.	The mine will construct berms to combat this in the future.
Siyanda Phakathi (SP)	The I&AP stated that they want feedback and visible improvement.	<p>Noted.</p> <p>All comments will be in the IWWMP.</p>
Elphas Sangweni (ES) & Kwamagayi Mbuzi (KM)	I&APs indicated that the farm needs to be fenced near the river for safety purposes. They need tracks for the vehicles.	Noted.
Dabe (D)	I&AP stated that animals and children are at risk with no fencing. The fence needs to be fixed so that the animals can't access the mine easily.	Noted.
Mbali Khumalo (MK) & Fezile Simelane (FS)	The I&APs expressed that there needs to be community projects such as baking, cooking and bead work.	Noted.
Nompumelelo Nksoi (NN)	<p>The I&amp;AP raised Youth concerns to help with growing their skills:</p> <p>Skills development centre</p>	Noted.

	Business management	
Thulie Mfusi (TM)	The I&AP stated that Roll over rehabilitation needs to be implemented more efficiently and effectively.	The mine does undertake roll over rehabilitation and update their Closure and Rehabilitation model and financial provision annually in accordance with the legislation.
Mama Simelane (MS)	The I&AP indicated that the road near Emadlangeni School needs clearance.	Noted. The Mine is not allowed to undertake maintenance activities on roads that do not belong to them. The road leading to the school is a provincial road, D88, the KwaZulu-Natal Department of Transport will need to be contacted.