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Addendum to the

1st phase H.I.A. of a proposed upgrading and extension of the proposed storm-water management project at Venetia Mine, Limpopo Province, South Africa

For De Beers Consolidated Mines (Pty) Ltd.

Project number DEB-VEN-21-02-03

(Amendment 1 on request from SAHRA APM unit letter dated 27th September 2021)



Report prepared by: -

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Owing to concerns raised by SAHRA regarding insufficient track logging for the De Beers Consolidated Mines (Pty) Ltd. Project number DEB-VEN-21-02-03, this issue was revisited by the present author. There are several concerns, challenges and realities in play.

1. Past occupation of the Landscape.

It is well known, as discussed in the 1st phase assessment, that owing to the geology, yearly precipitation and vegetative matters men and women have for a very long time settled permanently in this region along the river complexes and in the fertile valleys. The landscape abounded with all types of game, birds, reptiles and insects as well with a bounty of a variety of edible fruits, berries and plants, as well as for medicinal use. With the arrival of the Agro Pastoralists, the soils also proved to be productive and during the first 1500 years AD the yearly precipitation allowed sufficient crop yields. In due course, with the continuous climate change, the yearly precipitation fell to the region of 250 mm per year that is insufficient for dry-land agriculture.

This existence of this extensive population is also underscored by the myriads of rock shelters in the sandstone hillsides that was intensely utilised by Stone Age peoples. The heritage estate of South Africa also have here one of the most concentrated rock-art ensembles in Southern Africa, often including engravings and paintings in the same shelters. (One of the very special features in this region is the use of green as a colour in some of the images that is apparently due to the occurrence of copper at Musina.) This occurrence of rock-art in the region is extensively discussed by the likes of Schoonraad, Pager, Eastwood, Cnoops, Blundell,

Regarding the Iron Age period one may assume that from as early as the fourth century they also appear in this landscape, as proven by the Klein Africa site only some 80 kilometres to the south of Venetia, excavated by H.P. Prinsloo in the 1970's. Then for 10 more centuries the Iron Age population waxed and waned around the highpoint of the Mapungubwe culture.

2. Geology and vegetation.

But, as all over the world, societies depended on grains as a central food source needs soils to cultivate these grains in. Soils on their turn is either a direct derivative from the geological substructure of the region, or is/was deposited by either ice, water or wind born sources. This was then the basis for the thriving Iron Age occupation of the Vhembe district.



BUT.....The formation of the multifaceted kimberlite core of the Venetia mine also transformed the geology around its epicentre leavening behind a very hard calcite geological sub stratum for the formation of soils, which did not really occur. This resulted in the very stunted mopani-veld surrounding the mine, as well as nearly no soils suitable for cultivation. This very basic tool of archaeological investigation then leads the investigator to the hypothesis that the probability of finding any significant archaeological remains are very low and then also low risk in missing any sites that might be detected.

Fig. 01. The landscape in the areas of investigation consists of a calcite substructure inhibiting growth in vegetation, both trees and grass species. This substructure supports mainly two indigenous tree species of, namely *Colophospermum mopane* (Mopani tree) in the dry veld and *Lonchocarpus capassa* (Apple leaf tree) along drainage lines. On most portions of the site under investigation it is possible to do an on-foot survey owing to the scarcity of vegetation. This is then also a clear indication of the soils not being capable to support grain based societies. (Photo S.M. Miller 2021.)



Fig. 02. Drainage lines such as the **Matotwane** in this image here on the eastern side and the **Kolope** on the western side of the mine may have had some suitable soils for limited cultivation. That is why these areas were more intensely investigated by on-foot survey. Note the stunted *Colophospermum mopane* (Mopani trees) growing right up to the drainage line, with the *Lonchocarpus capassa* (Apple leaf trees) surviving in the little soil available along its banks. . (Photo S.M. Miller 2021.)

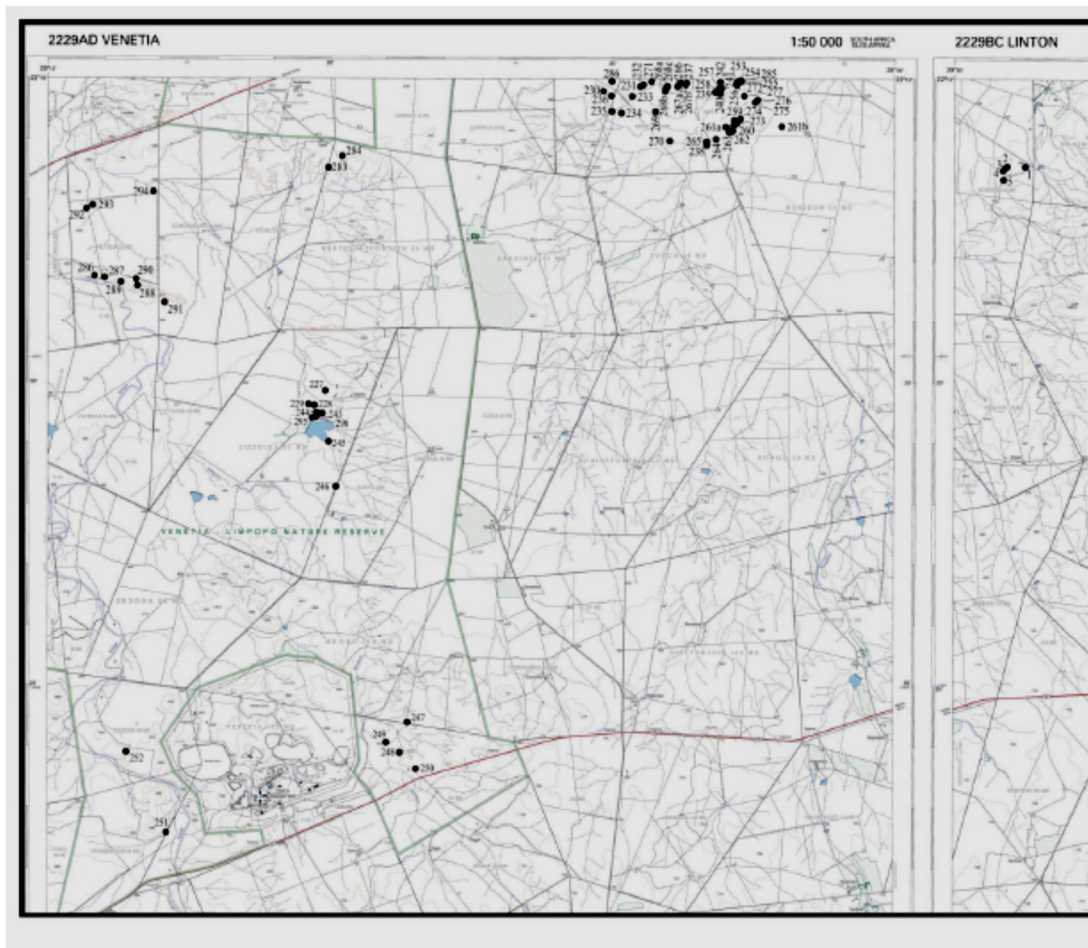


Fig. 03. The hypothesis of settlement distribution in relation to geology and vegetation is then also underlined by this map kindly supplied by Tom Huffman which is the result of years of research in the Vhembe district by the Wits Department of Archaeology (Map Tom Huffman.¹)

¹ This is the intellectual property of the University of the Witwatersrand and its researchers and may not be used in publications without their consent

3. Previous Archaeological Impact Assessments.

3.1. The 2000 Hanish Report.

An important aspect that appears to be amiss in the case of the present HIA, is that the whole site within the security fences of the Venetia mine has been assessed and mitigated by H.O.M. Hanish between 1989 and 2000. In the region of 27 sites were identified and over time assessed for importance. As none were found to be retained without a chance of mitigation, all sites were recorded and mitigated as described in the *Environmental Management Report for Venetia Mine* of July 2000, Appendix 3.

The Mine has therefor exercised its right to proceed with mining operations for the last 21 years with no intervention of re-assessment of heritage material inside its mining rights area.

To therefore require a new AIA or HIA within the previously cleared area may be prudent on the side of the Environmental team but technically out of order.

The rules of finding previously undetected heritage resources is managed by the mine's Heritage Management Plan that prescribes actions to be taken in such cases.

3.2. The 2011 Pistorius Report.

In an extensive report covering 58 pages Pistorius verbally describes the finding of six Iron Age sites, a graveyard and a MSA in one page. The information regarding these sites are only descriptive, with only two photographs of the grave site and what appears to be some bulldozed rocks.

1. There is no track record of how these sites were identified, and no GPS reading to locate or re-locate them are available.
2. The one Iron Age site on the west of the mine at the foot of the dump and the MSA site ought to have been immediately mitigated in 2012 according to the mine's Heritage Management Plan and SAHRA directives.
3. The wall in the photograph has no characteristics of a Khami Period wall and Pistorius describes the ceramics as "un-diagnostic". So it is difficult to understand the site being described a "Khami-Period site?"
4. The MSA site Pistorius described as a small ensemble of stone artefacts. If they were left in place there is no chance that they would have survived 9 years of mine traffic over PCD1. ²
5. It is also noted that in August 2015 excavation permits were issued to Dr Shadreck Chirikuri by SAHRA for possibly the mitigation of the 7 sites mentioned in the 2011 report. As there is no record of these permits being utilised, it must be assumed that the sites were not mitigated, or could not be found?
6. As these sites fall outside the designated areas for the present H.I.A. no further attention were allocated to them. If SAHRA is in a quandary regarding the sites, maybe Chirikuri is the responsible person to communicate with.

4. Mine and Game Farm Security.

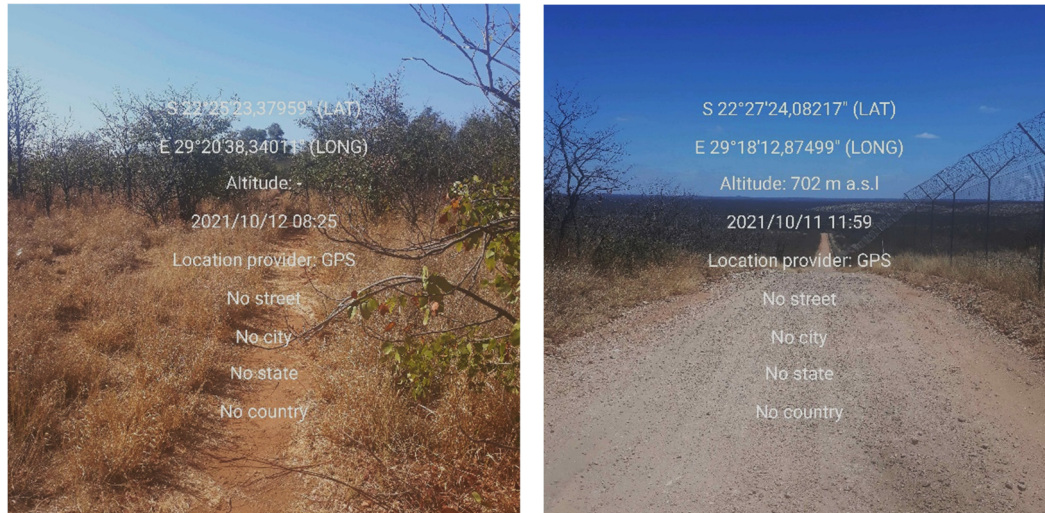
The final and one of the most inhibiting factors to consider doing HIA work on mining property is rules, regulations and restriction to certain areas on site, as well as the security fencing seen in the image below.

In the case of Venetia there then also exist a double line of security fences placed about 100 meters apart, with the internal area effectively a no-go zone.

² *The present author did visit the proximity of the site (as indicated on Pistorius's 2012 map,) but without a GPS reading there was no chance of finding it.*

In the mine there exist concerns regarding the health and safety of the consultant, as well as the “health and safety” of the mine’s product. In the game farm that surrounding the mine itself there also occur elephant, lion and leopard that impact on concerns from the mine’s side to escort a consultant in the game area.

All of the above then does impact on how assessments are conducted at Venetia Mine.



Figs. 04 and 05. Conditions that impact heritage assessment on Venetia mine. An elephant foot path in the eastern portion surveyed and the typical all-present security fencing regulating no-go zones. (Photo’s S. M. Miller 2021.)

5. Mitigation.

With all the above in mind, and to address the concerns of SAHRA, the present investigator acquired a system of GPS track logging that also allows the user to take digital photographs that are four dimensionally recorded and labelled.

The present author then revisited the site on the 12th and 13th of October 2021 with Mr Cecil Cloete from the environmental office as main host. He is well conversant with the site and the challenges surrounding access and recording on site. Inside the game farm Trevor Tshivanandalani escorted Mr Cloete and the consultant in the PCD3 and Eastern Portion areas that are in fact the only “new areas” for investigation. A total of 243 points were logged and photographed, covering as much as humanly possible of the proposed development area.

The photographs are not included in this document but is presented in a separate file for the perusal of interested parties.

NOTE. Legally only the two portions falling in the game farm are “new investigation” areas. However, to avoid contention between parties, the consultant also re-visited the areas of present interest inside the site already cleared in the 2000 report by Hanish.

It can then also clearly be seen in Figs 7 and 9 that the consultant covered these areas inside the game farm on foot to find conditions likely for settlement.

6. Track Log. (See google earth images on pages 14 to 21)

| No | Latitude | Longitude | Day | Time | Photo ID | Comment |
|----|----------|-----------|-----|------|----------|---------|
|----|----------|-----------|-----|------|----------|---------|

| The digital photos have a typical 13 digit identification number. For the purpose of avoiding confusion only the last four digits were used for ID in this track log. | | | | | | |
|---|---------------|---------------|---|-------|------|---------------------------------------|
| PCD3 Outside mine | | | | | | |
| 1 | 22°26'55.28"S | 29°17'31.90"E | 10/11 | 10:30 | 0697 | Facing north. Dam caused large impact |
| 2 | 22°26'53.43"S | 29°17'30.90"E | 10/11 | 10:38 | 9551 | Facing west |
| 3 | 22°26'52.65"S | 29°17'30.52"E | 10/11 | 10:39 | 5873 | Facing east |
| 4 | 22°26'51.50"S | 29°17'30.09"E | 10/11 | 10:41 | 4856 | Facing north, vegetation |
| 5 | 22°26'51.01"S | 29°17'31.18"E | 10/11 | 10:44 | 4147 | Facing north, geology |
| 6 | 22°26'50.67"S | 29°17'31.74"E | 10/11 | 10:46 | 0861 | Facing north, vegetation |
| 7 | 22°26'50.11"S | 29°17'32.88"E | 10/11 | 10:46 | 4664 | Facing north, geology |
| 8 | 22°26'50.13"S | 29°17'32.78"E | 10/11 | 10:48 | 0704 | Facing north, geology |
| 9 | 22°26'50.46"S | 29°17'32.47"E | 10/11 | 10:49 | 3617 | Facing northeast, geology |
| 10 | 22°26'49.85"S | 29°17'33.94"E | 10/11 | 10:49 | 8173 | Facing northeast, geology |
| 11 | 22°26'49.06"S | 29°17'35.77"E | 10/11 | 10:52 | 7203 | Facing north, geology |
| 12 | 22°26'48.99"S | 29°17'35.87"E | 10/11 | 10:53 | 0228 | Facing northeast, disturbance |
| 13 | 22°26'49.39"S | 29°17'34.61"E | 10/11 | 10:54 | 6696 | Facing northeast, disturbance |
| 14 | 22°26'48.64"S | 29°17'36.49"E | 10/11 | 10:55 | 3630 | Facing east, disturbance |
| 15 | 22°26'49.84"S | 29°17'34.03"E | Incorrect GPS reading owing to loss of satellite signals. Estimated position below | | | |
| | 22°26'49.84"S | 29°17'37.85"E | 10/11 | 10:56 | 8805 | Facing north disturbance |
| 16 | 22°26'50.48"S | 29°17'35.09"E | Incorrect GPS reading owing to loss of satellite signals. Estimated position below | | | |
| | 22°26'51.00"S | 29°17'37.02"E | 10/11 | 10:59 | 8806 | Facing southwest, vegetation |
| 17 | 22°26'50.93"S | 29°17'33.96"E | Incorrect GPS reading owing to loss of satellite signals. Estimated position below | | | |
| | 22°26'52.72"S | 29°17'37.98"E | 10/11 | 11:02 | 0120 | Facing northeast, disturbance/road |
| 18 | 22°26'53.54"S | 29°17'35.47"E | 10/11 | 11:03 | 2295 | Facing north, vegetation |
| 19 | 22°26'51.71"S | 29°17'34.07"E | Incorrect GPS reading owing to loss of satellite signals. Estimated position below | | | |
| | 22°26'56.49"S | 29°17'37.73"E | 10/11 | 11:05 | 6796 | Facing south, vegetation/geology |
| 20 | 22°26'51.29"S | 29°17'34.41"E | Incorrect GPS reading owing to loss of satellite signals. Estimated position below | | | |
| | 22°26'56.57"S | 29°17'35.14"E | 10/11 | 11:07 | 3845 | Facing northeast, disturbance/road |
| 21 | 22°26'54.77"S | 29°17'34.19"E | 10/11 | 11:08 | 9659 | Facing south, vegetation/geology |
| 22 | 22°26'54.77"S | 29°17'33.89"E | 10/11 | 11:10 | 5343 | Facing south, vegetation/geology |
| 23 | 22°26'55.27"S | 29°17'32.37"E | 10/11 | 11:10 | 4398 | Author on site |
| 24 | 22°26'55.27"S | 29°17'32.37"E | 10/11 | 11:11 | 6649 | Facing northeast |
| 25 | 22°26'46.18"S | 29°17'37.35"E | 10/11 | 11:18 | 9171 | Facing west, vegetation |
| 26 | 22°26'46.40"S | 29°17'36.49"E | 10/11 | 11:19 | 3751 | Facing west, geology |
| 27 | 22°26'47.33"S | 29°17'35.13"E | 10/11 | 11:22 | 8277 | Facing west |
| 28 | 22°26'46.32"S | 29°17'34.47"E | 10/11 | 11:24 | 2016 | Facing northwest vegetation |
| 29 | 22°26'45.53"S | 29°17'34.77"E | 10/11 | 11:25 | 9125 | Geology |
| 30 | 22°26'44.85"S | 29°17'34.35"E | 10/11 | 11:26 | 5860 | Vegetation |
| 31 | 22°26'44.71"S | 29°17'34.13"E | 10/11 | 11:28 | 2448 | Geology vegetation |
| 32 | 22°27'2.33"S | 29°17'43.76"E | 10/11 | 11:26 | 0890 | Facing south, South road |
| 33 | 22°27'2.26"S | 29°17'43.80"E | 10/11 | 11:32 | 5797 | Facing north, South road |
| 34 | 22°27'2.97"S | 29°17'42.12"E | 10/11 | 11:35 | 9456 | Facing west, vegetation |
| 35 | 22°27'2.17"S | 29°17'41.43"E | 10/11 | 11:36 | 3617 | Facing northwest, geology |
| 36 | 22°27'0.97"S | 29°17'40.92"E | 10/11 | 11:38 | 8971 | Facing northwest, vegetation |
| 37 | 22°27'1.17"S | 29°17'40.73"E | 10/11 | 11:39 | 2478 | Facing northwest, vegetation |
| 38 | 22°27'0.74"S | 29°17'41.57"E | 10/11 | 11:42 | 8891 | Facing east, vegetation |
| 39 | 22°26'59.26"S | 29°17'41.13"E | Incorrect GPS reading owing to loss of satellite signals. Estimated position below | | | |
| | 22°26'57.69"S | 29°17'40.48"E | 10/11 | 11:45 | 5907 | Facing north, geology |
| 40 | 22°27'0.07"S | 29°17'41.52"E | Incorrect GPS reading owing to loss of satellite signals. Estimated position below | | | |
| | 22°26'56.86"S | 29°17'41.79"E | 10/11 | 11:47 | 6618 | Facing northwest, disturbance/road |
| 41 | 22°26'56.37"S | 29°17'41.50"E | 10/11 | 11:49 | 6914 | Author on site |
| 42 | 22°27'25.60"S | 29°17'49.43"E | 10/11 | 11:56 | 5784 | Facing east, South road |
| 43 | 22°27'24.08"S | 29°18'12.87"E | 10/11 | 11:59 | 7263 | Facing west, South road |
| 44 | 22°27'24.08"S | 29°18'12.99"E | 10/11 | 12:00 | 2725 | Facing east, South road |
| 45 | 22°27'23.46"S | 29°18'25.33"E | 10/11 | 12:02 | 2437 | Facing east, South road |
| 46 | 22°27'22.04"S | 29°18'48.34"E | 10/11 | 12:04 | 5539 | Facing east, South road |

| | | | | | | |
|--|---------------|---------------|---|-------|------|--|
| 47 | 22°27'22.37"S | 29°18'48.08"E | 10/11 | 12:04 | 8702 | Facing east, South road |
| 48 | 22°27'12.46"S | 29°19'10.06"E | 10/11 | 12:08 | 0357 | Facing east, South road |
| 49 | 22°27'17.15"S | 29°19'20.76"E | 10/11 | 12:26 | 1447 | Venter cemetery at Baobab |
| 50 | 22°27'16.99"S | 29°19'20.97"E | 10/11 | 12:30 | 4356 | Venter cemetery at Baobab |
| 51 | 22°27'14.58"S | 29°19'21.87"E | ? | ? | ? | Original Venter homestead ? Investigate |
| Eastern Portion. Outside the mine | | | | | | |
| 52 | 22°25'29.92"S | 29°20'42.16"E | 10/12 | 08:17 | 0496 | Facing north |
| 53 | 22°25'28.89"S | 29°20'41.75"E | 10/12 | 08:20 | 4213 | Facing west |
| 54 | 22°25'28.33"S | 29°20'41.39"E | 10/12 | 08:20 | 6451 | Facing east |
| 55 | 22°25'27.52"S | 29°20'40.86"E | 10/12 | 08:25 | 3675 | Facing east |
| 56 | 22°25'23.38"S | 29°20'38.34"E | 10/12 | 08:25 | 5906 | Facing north, elephant footpath |
| 57 | 22°25'24.24"S | 29°20'39.08"E | 10/12 | 08:28 | 6308 | Facing west |
| 58 | 22°25'20.87"S | 29°20'37.39"E | 10/12 | 08:28 | 7922 | Facing east, geology |
| 59 | | | | | | No Photo |
| 60 | 22°25'11.01"S | 29°20'34.95"E | 10/12 | 08:36 | 4490 | Facing north, river crossing |
| 61 | 22°25'12.01"S | 29°20'36.70"E | 10/12 | 08:38 | 4024 | Facing west |
| 62 | 22°25'13.20"S | 29°20'37.96"E | 10/12 | 08:46 | 8087 | Facing west |
| 63 | 22°25'12.83"S | 29°20'37.90"E | 10/12 | 08:41 | 8859 | Author on site |
| 64 | 22°25'14.04"S | 29°20'38.40"E | 10/12 | 08:45 | 5126 | Facing west, geology |
| 65 | 22°25'15.30"S | 29°20'39.69"E | 10/12 | 08:46 | 7486 | Facing west, vegetation |
| 66 | 22°25'13.80"S | 29°20'38.72"E | Incorrect GPS reading owing to loss of satellite signals. Estimated position below | | | |
| | 22°25'18.18"S | 29°20'42.07"E | 10/12 | 08:52 | 2688 | Facing east, vegetation |
| 67 | 22°25'22.17"S | 29°20'46.33"E | Incorrect GPS reading owing to loss of satellite signals. Estimated position below | | | |
| | 22°25'20.14"S | 29°20'44.94"E | 10/12 | 08:56 | 4774 | Facing west, vegetation |
| 68 | 22°25'22.59"S | 29°20'46.78"E | 10/12 | 08:57 | 0237 | Facing west, vegetation |
| 69 | 22°25'27.11"S | 29°20'48.86"E | 10/12 | 09:01 | 5056 | Facing east, disturbance/road |
| 70 | 22°24'51.17"S | 29°20'27.29"E | 10/12 | 09:15 | 0860 | Facing north, disturbance/road |
| 71 | 22°24'52.06"S | 29°20'29.09"E | 10/12 | 09:20 | 8662 | Facing north, apple-leaf |
| 72 | 22°24'53.86"S | 29°20'31.77"E | 10/12 | 09:23 | 1249 | Facing east |
| 73 | 22°24'53.54"S | 29°20'31.52"E | Incorrect GPS reading owing to loss of satellite signals. Estimated position below | | | |
| | 22°24'57.77"S | 29°20'34.36"E | 10/12 | 09:28 | 7997 | Facing west |
| 74 | 22°25'0.98"S | 29°20'36.70"E | 10/12 | 09:28 | 8674 | Facing west |
| 75 | 22°25'2.81"S | 29°20'37.34"E | 10/12 | 09:30 | 9446 | Facing east |
| 76 | 22°25'5.30"S | 29°20'35.77"E | 10/12 | 09:35 | 0481 | Facing south |
| 77 | 22°25'6.98"S | 29°20'35.31"E | 10/12 | 09:37 | 0050 | Facing south |
| 78 | 22°25'7.92"S | 29°20'34.69"E | 10/12 | 09:41 | 1569 | Facing west geology |
| 79 | 22°25'12.45"S | 29°20'30.83"E | 10/12 | 09:42 | 0693 | Facing west geology |
| Eastern Portion. Inside the mine | | | | | | |
| 80 | 22°25'23.24"S | 29°20'30.79"E | 10/12 | 09:47 | 1082 | Facing east geology |
| 81 | 22°25'30.71"S | 29°20'32.46"E | 10/12 | 09:48 | 4825 | Facing east vegetation |
| 82 | 22°25'31.08"S | 29°20'33.17"E | Incorrect GPS reading owing to loss of satellite signals. Estimated position below | | | |
| | 22°25'33.83"S | 29°20'38.33"E | 10/12 | 09:49 | 1572 | Facing east vegetation |
| 83 | 22°25'37.58"S | 29°20'47.12"E | 10/12 | 09:51 | 8778 | Facing east vegetation |
| 84 | 22°25'27.20"S | 29°20'25.34"E | 10/12 | 11:14 | 9198 | Facing west geology |
| 85 | 22°25'21.52"S | 29°20'25.22"E | 10/12 | 11:16 | 6832 | Facing west geology |
| 86 | 22°25'17.90"S | 29°20'25.05"E | 10/12 | 11:17 | 1379 | Facing west geology |
| 87 | 22°25'13.67"S | 29°20'24.43"E | 10/12 | 11:18 | 9079 | Facing west geology |
| 88 | 22°25'8.82"S | 29°20'23.93"E | 10/12 | 11:19 | 0639 | Facing west geology |
| 89 | 22°25'3.95"S | 29°20'23.28"E | 10/12 | 11:20 | 2217 | Facing west geology |
| 90 | 22°24'59.23"S | 29°20'22.72"E | 10/12 | 11:21 | 2571 | Facing west geology |
| 91 | 22°25'23.69"S | 29°20'21.81"E | 10/12 | 11:26 | 6634 | Facing west geology |
| 92 | 22°25'18.07"S | 29°20'21.25"E | 10/12 | 11:27 | 3100 | Facing west geology |
| 93 | 22°25'13.27"S | 29°20'20.72"E | 10/12 | 11:28 | 9899 | Facing west vegetation |
| 94 | 22°25'7.20"S | 29°20'20.13"E | 10/12 | 11:28 | 2925 | Facing west geology |
| 95 | 22°25'1.82"S | 29°20'19.48"E | 10/12 | 11:30 | 2241 | Facing west geology |
| 96 | 22°24'56.68"S | 29°20'18.90"E | 10/12 | 11:31 | 9662 | Facing west geology |
| 97 | 22°24'53.62"S | 29°20'18.47"E | 10/12 | 11:32 | 4029 | Facing west geology |
| 98 | 22°25'41.71"S | 29°20'27.53"E | 10/12 | 11:37 | 1943 | Facing east geology |
| 99 | 22°25'42.89"S | 29°20'29.08"E | 10/12 | 11:38 | 5886 | Facing east vegetation |
| 100 | 22°25'44.81"S | 29°20'35.59"E | 10/12 | 11:40 | 8080 | Facing north vegetation |
| 101 | 22°25'38.47"S | 29°20'36.78"E | 10/12 | 11:41 | 7761 | Facing southeast vegetation |
| 102 | 22°25'33.79"S | 29°20'37.48"E | 10/12 | 11:42 | 3812 | Facing west vegetation |
| 103 | 22°25'33.87"S | 29°20'37.42"E | 10/12 | 11:43 | 9456 | Facing south vegetation |
| 104 | 22°25'37.16"S | 29°20'45.50"E | 10/12 | 11:46 | 1473 | Facing southeast vegetation |
| 105 | 22°25'35.42"S | 29°20'41.98"E | 10/12 | 11:47 | 8132 | Facing southeast vegetation |

| | | | | | | |
|-------------------------|---------------|---------------|---|-------|------|---|
| 106 | 22°25'35.61"S | 29°20'42.25"E | 10/12 | 11:47 | 8719 | Facing southeast vegetation |
| 107 | 22°25'27.81"S | 29°20'31.06"E | 10/12 | 11:49 | 3457 | Facing west vegetation |
| 108 | 22°25'21.91"S | 29°20'30.57"E | 10/12 | 11:50 | 4409 | Facing west vegetation |
| 109 | 22°25'17.21"S | 29°20'29.87"E | 10/12 | 11:51 | 4564 | Facing west vegetation |
| 110 | 22°25'20.73"S | 29°20'30.24"E | 10/12 | 11:52 | 8428 | Facing west vegetation |
| 111 | 22°25'08.71"S | 29°20'28.95"E | 10/12 | 11:53 | 5227 | Facing west vegetation |
| 112 | 22°25'05.18"S | 29°20'28.64"E | 10/12 | 11:53 | 8253 | Facing west vegetation |
| 113 | 22°25'02.06"S | 29°20'28.28"E | 10/12 | 11:54 | 6984 | Facing west vegetation |
| 114 | 22°24'58.84"S | 29°20'27.93"E | 10/12 | 11:55 | 6270 | Facing west vegetation |
| 115 | 22°24'53.58"S | 29°20'27.44"E | 10/12 | 11:55 | 5774 | Facing west vegetation |
| 116 | 22°24'51.54"S | 29°20'25.44"E | 10/12 | 11:56 | 9396 | Facing north geology |
| North Road | | | | | | |
| 117 | 22°24'52.58"S | 29°20'17.03"E | 10/12 | 11:59 | 9072 | Facing northwest, geology |
| 118 | 22°24'51.19"S | 29°20'13.93"E | 10/12 | 12:00 | 2477 | Facing northwest |
| 119 | 22°24'50.59"S | 29°20'12.35"E | 10/12 | 12:01 | 4706 | Facing northwest, geology |
| 120 | 22°24'48.87"S | 29°20'8.30"E | 10/12 | 12:02 | 8821 | Facing southwest, disturbance |
| 121 | 22°24'46.11"S | 29°20'0.77"E | 10/12 | 12:03 | 9408 | Facing southwest, disturbance |
| 122 | 22°24'45.62"S | 29°20'0.78"E | 10/12 | 12:01 | 7677 | Facing northwest geology |
| 123 | 22°24'43.29"S | 29°19'55.87"E | 10/12 | 12:02 | 0653 | Facing northwest |
| 124 | 22°24'38.02"S | 29°19'42.46"E | 10/12 | 12:06 | 5089 | Facing northwest, dump impact |
| 125 | 22°24'37.83"S | 29°19'42.49"E | 10/12 | 12:06 | 8930 | Facing south, dump impact |
| 126 | 22°24'37.75"S | 29°19'41.24"E | 10/12 | 12:07 | 4547 | Facing west |
| 127 | 22°24'36.63"S | 29°19'24.51"E | 10/12 | 12:08 | 3636 | Facing southwest, dump impact |
| 128 | 22°24'36.37"S | 29°19'22.39"E | 10/12 | 12:11 | 6468 | Facing south, seepage impact |
| 129 | 22°24'36.40"S | 29°19'22.32"E | 10/12 | 12:11 | 7930 | Facing south, seepage impact |
| 130 | 22°24'37.32"S | 29°19'9.26"E | 10/12 | 12:13 | 9010 | Facing south, dump impact |
| 131 | 22°24'39.69"S | 29°19'2.12"E | 10/12 | 12:14 | 7280 | Facing south, dump impact |
| 132 | 22°24'39.65"S | 29°19'1.77"E | 10/12 | 12:14 | 8827 | Facing southeast, dump impact |
| 133 | 22°24'43.25"S | 29°18'51.41"E | 10/12 | 12:18 | 4692 | Facing southeast, dump impact |
| 134 | 22°24'45.96"S | 29°18'46.02"E | 10/12 | 12:19 | 2736 | Facing southeast, dump impact |
| 135 | 22°24'44.92"S | 29°18'46.37"E | Incorrect GPS reading owing to loss of satellite signals. Estimated position below | | | |
| | 22°24'47.44"S | 29°18'39.84"E | 10/12 | 12:20 | 6926 | Facing southeast, dump impact |
| 136 | 22°24'45.70"S | 29°18'44.28"E | Incorrect GPS reading owing to loss of satellite signals. Estimated position below | | | |
| | 22°24'49.43"S | 29°18'33.71"E | 10/12 | 12:21 | 3020 | Facing southeast, dump impact |
| 137 | 22°24'52.30"S | 29°18'25.62"E | 10/12 | 12:21 | 8571 | Facing southeast, seepage impact |
| 138 | 22°24'55.68"S | 29°18'15.30"E | 10/12 | 12:24 | 9286 | Facing south, dump impact |
| 139 | 22°24'56.04"S | 29°18'14.17"E | 10/12 | 12:25 | 8902 | Facing south, general earthmoving impact |
| 140 | 22°25'2.81"S | 29°17'54.67"E | 10/12 | 12:27 | 0265 | Facing south, general earthmoving impact |
| PCD3 Inside mine | | | | | | |
| 141 | 22°26'39.97"S | 29°17'33.86"E | 10/12 | 12:38 | 2900 | Facing east, general impact, road/electricity |
| 142 | 22°26'41.48"S | 29°17'35.00"E | 10/12 | 12:39 | 2258 | Facing east, geology |
| 143 | 22°26'40.91"S | 29°17'34.71"E | Incorrect GPS reading owing to loss of satellite signals. Estimated position below | | | |
| | 22°26'43.41"S | 29°17'38.28"E | 10/12 | 12:40 | 3304 | Facing east, excavation impact |
| 144 | 22°26'45.66"S | 29°17'39.47"E | 10/12 | 12:41 | 2046 | Facing east, excavation impact |
| 145 | 22°26'46.10"S | 29°17'42.39"E | 10/12 | 12:42 | 7333 | Facing east, infrastructure impact |
| 146 | 22°26'45.92"S | 29°17'42.72"E | 10/12 | 12:43 | 0691 | Facing east, infrastructure impact |
| 147 | 22°26'44.44"S | 29°17'41.09"E | 10/12 | 12:44 | 7885 | Facing northeast, mega earthmoving impact |
| 148 | 22°26'37.01"S | 29°17'34.82"E | 10/12 | 12:46 | 8203 | Facing east, mega seepage impact |
| 149 | 22°26'39.97"S | 29°17'36.33"E | 10/12 | 12:46 | 0417 | Facing north, typical crisscrossing of area by infrastructure such as roads, power lines and seepage control. |
| 150 | 22°26'42.63"S | 29°17'39.50"E | 10/12 | 12:49 | 1414 | Facing east, mega earthmoving impact |
| 151 | 22°26'47.25"S | 29°17'44.09"E | 10/12 | 12:52 | 7906 | Facing east, mega road impact |
| 152 | 22°26'52.30"S | 29°17'45.52"E | 10/12 | 12:53 | 4392 | Facing southeast, geology and dump impact |

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|---------------------------------------|---------------|---------------|---|-------|------|--|
| 153 | 22°26'53.54"S | 29°17'45.81"E | 10/12 | 12:54 | 0843 | Facing east, geology and dump impact |
| 154 | 22°27'1.92"S | 29°17'47.61"E | 10/12 | 12:56 | 8962 | Facing east, geology and dump impact |
| 155 | 22°26'59.38"S | 29°17'47.42"E | 10/12 | 12:56 | 4315 | Facing south, geology and road impact |
| 156 | 22°26'53.82"S | 29°17'46.8"E | 10/12 | 12:56 | 0897 | Facing north, geology and seepage impact |
| 157 | 22°26'53.15"S | 29°17'49.24"E | 10/12 | 12:56 | 7522 | Facing north, geology and road impact |
| 158 | 22°26'53.41"S | 29°17'48.47"E | 10/12 | 12:56 | 1225 | Facing north, infrastructure impact |
| RWD 1 | | | | | | |
| 159 | 22°26'23.94"S | 29°18'22.51"E | 10/12 | 13:14 | 3582 | Facing west, infrastructure impact |
| 160 | 22°26'18.32"S | 29°18'20.58"E | 10/12 | 13:16 | 1890 | Facing northeast, infrastructure impact |
| 161 | 22°26'22.13"S | 29°18'21.73"E | Incorrect GPS reading owing to loss of satellite signals. Estimated position below | | | |
| | 22°26'15.12"S | 29°18'25.08"E | 10/12 | 13:17 | 5132 | Facing northeast, infrastructure impact |
| PCD 2 | | | | | | |
| 162 | 22°26'35.62"S | 29°18'20.1"E | 10/12 | 13:36 | 5134 | Facing east, infrastructure impact |
| 163 | 22°26'34.78"S | 29°18'23.55"E | 10/12 | 13:37 | 8199 | Facing south, infrastructure impact |
| 164 | 22°26'35.64"S | 29°18'26.87"E | 10/12 | 13:39 | 6212 | Facing south, infrastructure impact |
| 165 | 22°26'35.44"S | 29°18'25.33"E | Incorrect GPS reading owing to loss of satellite signals. Estimated position below | | | |
| | 22°26'36.72"S | 29°18'29.18"E | 10/12 | 13:39 | 7871 | Facing east, infrastructure impact, new road |
| 166 | 22°26'35.91"S | 29°18'27.90"E | Incorrect GPS reading owing to loss of satellite signals. Estimated position below | | | |
| | 22°26'39.05"S | 29°18'31.20"E | 10/12 | 13:39 | 6716 | Facing east, infrastructure impact, new road |
| PCD 4 | | | | | | |
| 167 | 22°26'31.18"S | 29°19'7.76"E | 10/12 | 13:57 | 7346 | Facing east, infrastructure impact, new road |
| 168 | 22°26'32.38"S | 29°19'10.58"E | 10/12 | 13:59 | 1282 | Facing east, infrastructure impact, new road |
| OMWSD3 North of fence and road | | | | | | |
| 169 | 22°26'55.37"S | 29°19'14.74"E | 10/13 | 08:54 | 7734 | Facing southeast, infrastructure impact, pipelines and power lines |
| 170 | 22°26'54.85"S | 29°19'16.51"E | 10/13 | 08:55 | 0759 | Facing north, infrastructure impact, road |
| 171 | 22°26'54.51"S | 29°19'15.64"E | 10/13 | 08:56 | 0851 | Vegetation |
| 172 | 22°26'51.96"S | 29°19'15.90"E | 10/13 | 08:57 | 3858 | Vegetation/disturbance |
| 173 | 22°26'51.44"S | 29°19'15.04"E | 10/13 | 08:58 | 5371 | Vegetation |
| 174 | 22°26'52.66"S | 29°19'14.7"E | 10/13 | 09:01 | 5142 | Power lines |
| 175 | 22°26'52.40"S | 29°19'15.3"E | 10/13 | 09:01 | 6267 | Storage/disturbance |
| 176 | 22°26'52.59"S | 29°19'16.1"E | 10/13 | 09:02 | 5204 | Vegetation |
| 177 | 22°26'53.61"S | 29°19'20.68"E | 10/13 | 09:03 | 1303 | Road/pipe manhole |
| 178 | 22°26'53.75"S | 29°19'19.47"E | 10/13 | 09:04 | 0349 | Pipe manhole |
| 179 | 22°26'53.76"S | 29°19'17.76"E | 10/13 | 09:05 | 2334 | Vegetation |
| 180 | 22°26'53.85"S | 29°19'17.86"E | 10/13 | 09:06 | 6056 | Vegetation/disturbance |
| 181 | 22°26'53.33"S | 29°19'17.47"E | 10/13 | 09:08 | 9564 | Vegetation/disturbance |
| 182 | 22°26'50.73"S | 29°19'28.30"E | 10/13 | 09:09 | 3530 | Pipelines/pipe manholes |
| 183 | 22°26'50.29"S | 29°19'27.04"E | 10/13 | 09:10 | 3386 | Pipe manholes |
| 184 | 22°26'49.88"S | 29°19'25.26"E | 10/13 | 09:11 | 5247 | Pipeline with dams in background |
| PCD 1 | | | | | | |
| 185 | 22°26'40.88"S | 29°19'12.31"E | 10/13 | 09:17 | 5105 | Road/disturbance |
| 186 | 22°26'41.34"S | 29°19'13.02"E | 10/13 | 09:19 | 3839 | Dam |
| 187 | 22°26'42.45"S | 29°19'13.33"E | 10/13 | 09:20 | 7890 | Powerline |
| 188 | 22°26'43.50"S | 29°19'14.53"E | 10/13 | 09:21 | 8381 | Vegetation |
| 189 | 22°26'44.50"S | 29°19'15.42"E | 10/13 | 09:25 | 5022 | Pipelines |
| 190 | 22°26'45.04"S | 29°19'14.04"E | 10/13 | 09:27 | 4674 | Pipeline/road |
| 191 | 22°26'44.63"S | 29°19'13.84"E | 10/13 | 09:28 | 2437 | Vegetation |
| 192 | 22°26'45.07"S | 29°19'13.45"E | 10/13 | 09:28 | 2671 | Vegetation |

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|---------------------------------------|---------------|---------------|---|-------|------|---|
| 193 | 22°26'43.51"S | 29°19'13.39"E | 10/13 | 09:29 | 5369 | Vegetation |
| OMWSD3 South of fence and road | | | | | | |
| 194 | 22°26'53.99"S | 29°19'31.29"E | 10/13 | 10:11 | 4521 | Pipelines/disturbance |
| 195 | 22°26'55.18"S | 29°19'26.94"E | 10/13 | 10:12 | 4903 | Facing north/security fence/vegetation |
| 196 | 22°26'55.34"S | 29°19'26.26"E | 10/13 | 10:13 | 2010 | Facing north/security fence/vegetation Blasting |
| 197 | 22°26'55.38"S | 29°19'26.00"E | 10/13 | 10:14 | 2179 | Facing north/security fence/vegetation |
| 198 | 22°26'57.07"S | 29°19'21.03"E | 10/13 | 10:15 | 6763 | Facing north/security fence/vegetation |
| 199 | 22°26'57.99"S | 29°19'17.87"E | 10/13 | 10:16 | 8140 | Facing north/security fence/vegetation |
| 200 | 22°26'58.07"S | 29°19'17.82"E | 10/13 | 10:17 | 2958 | East dams on right |
| 201 | 22°26'55.42"S | 29°19'26.02"E | 10/13 | 10:19 | 9292 | Facing west over OMWSD N&R |
| OMWSD4 | | | | | | |
| 202 | 22°26'55.48"S | 29°19'28.32"E | 10/13 | 10:21 | 8505 | Entrance road large vehicles |
| 203 | | | | | | |
| 204 | | | | | | |
| 205 | | | | | | |
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| 207 | | | | | | |
| 208 | | | | | | |
| 209 | | | | | | |
| 210 | | | | | | |
| 211 | 22°26'55.46"S | 29°19'32.27"E | 10/13 | 10:21 | 3661 | Facing west, Storage areas tires machines |
| 212 | 22°26'54.34"S | 29°19'36.50"E | 10/13 | 10:26 | 4933 | Facing south, geology/vegetation/disturbance |
| 213 | 22°26'54.22"S | 29°19'36.53"E | 10/13 | 10:27 | 1313 | Facing south, geology/vegetation/disturbance |
| 214 | | | | | | |
| 215 | 22°26'52.78"S | 29°19'40.59"E | 10/13 | 10:27 | 1709 | Facing south, geology/vegetation/disturbance |
| 216 | 22°26'53.31"S | 29°19'37.98"E | Incorrect GPS reading owing to loss of satellite signals. Estimated position below | | | |
| | 22°26'51.96"S | 29°19'37.74"E | 10/13 | 10:30 | 8166 | Facing south, geology/vegetation/disturbance |
| 217 | 22°26'49.76"S | 29°19'43.72"E | 10/13 | 10:31 | 9000 | Facing south, geology/vegetation/disturbance |
| 218 | 22°26'49.97"S | 29°19'43.38"E | 10/13 | 10:32 | 9457 | Facing south, geology/vegetation/disturbance |
| 219 | 22°26'48.62"S | 29°19'46.94"E | 10/13 | 10:34 | 5848 | Facing south, geology/vegetation/disturbance |
| 220 | 22°26'47.07"S | 29°19'52.03"E | 10/13 | 10:34 | 3616 | Facing south, geology/vegetation/disturbance |
| 221 | 22°26'45.87"S | 29°19'54.97"E | 10/13 | 10:35 | 8787 | Facing south, geology/vegetation/disturbance |
| 222 | 22°26'48.65"S | 29°19'59.87"E | 10/13 | 10:38 | 1152 | Two baobabs |
| 223 | 22°26'48.50"S | 29°20'0.05"E | 10/13 | 10:40 | 1723 | Two baobabs |
| 224 | | | | | 4323 | Door handle |
| 225 | 22°26'48.98"S | 29°20'0.13"E | 10/13 | 10:41 | 0725 | New tire storage |
| 226 | 22°26'48.53"S | 29°20'0.05"E | 10/13 | 10:44 | 4911 | Relocated baobabs |
| 227 | 22°26'53.32"S | 29°19'55.59"E | 10/13 | 10:47 | 1690 | Facing northwest, disturbance |
| 228 | 22°26'53.26"S | 29°19'55.62"E | Incorrect GPS reading owing to loss of satellite signals. Estimated position below | | | |
| | 22°26'58.48"S | 29°19'49.88"E | 10/13 | 10:48 | 4899 | Facing north, geology/vegetation/disturbance |
| 229 | 22°26'57.69"S | 29°19'45.56"E | 10/13 | 10:53 | 7819 | Facing south, geology/vegetation/disturbance |
| 230 | 22°26'57.26"S | 29°19'42.39"E | 10/13 | 10:54 | 7590 | Facing south, geology/vegetation/disturbance |
| 231 | 22°26'56.78"S | 29°19'39.61"E | 10/13 | 10:55 | 3247 | Facing south, geology/vegetation/disturbance |
| 232 | 22°26'56.49"S | 29°19'37.62"E | 10/13 | 10:56 | 0403 | Facing east, geology |
| 233 | 22°26'53.99"S | 29°19'44.73"E | 10/13 | 11:04 | 9559 | Facing south, geology/vegetation/disturbance |
| 234 | 22°26'54.23"S | 29°19'46.15"E | 10/13 | 11:04 | 0779 | Facing south, geology/vegetation |
| 235 | 22°26'54.55"S | 29°19'47.84"E | 10/13 | 11:05 | 8840 | Facing south, geology/vegetation |

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|-----|---------------|---------------|-------|-------|------|---|
| 236 | 22°26'54.91"S | 29°19'50.03"E | 10/13 | 11:06 | 0960 | Facing south, vegetation |
| 237 | 22°26'57.42"S | 29°19'51.59"E | 10/13 | 11:07 | 3027 | Facing west, out of focus |
| 238 | 22°27'0.34"S | 29°19'45.91"E | 10/13 | 11:08 | 7446 | Mirror vegetation |
| 239 | 22°27'1.04"S | 29°19'43.48"E | 10/13 | 11:08 | 6735 | Facing south, geology/vegetation |
| 240 | 22°27'2.98"S | 29°19'39.8"E | 10/13 | 11:09 | 5936 | Window |
| 241 | 22°27'5.73"S | 29°19'38.59"E | 10/13 | 11:09 | 1728 | Facing northeast, geology/vegetation |
| 242 | 22°27'8.78"S | 29°19'38.54"E | 10/13 | 11:10 | 4806 | Facing north, vegetation |
| 243 | 22°27'10.55"S | 29°19'38.49"E | 10/13 | 11:10 | 7782 | Facing northeast, geology/vegetation |
| | | | | | | |

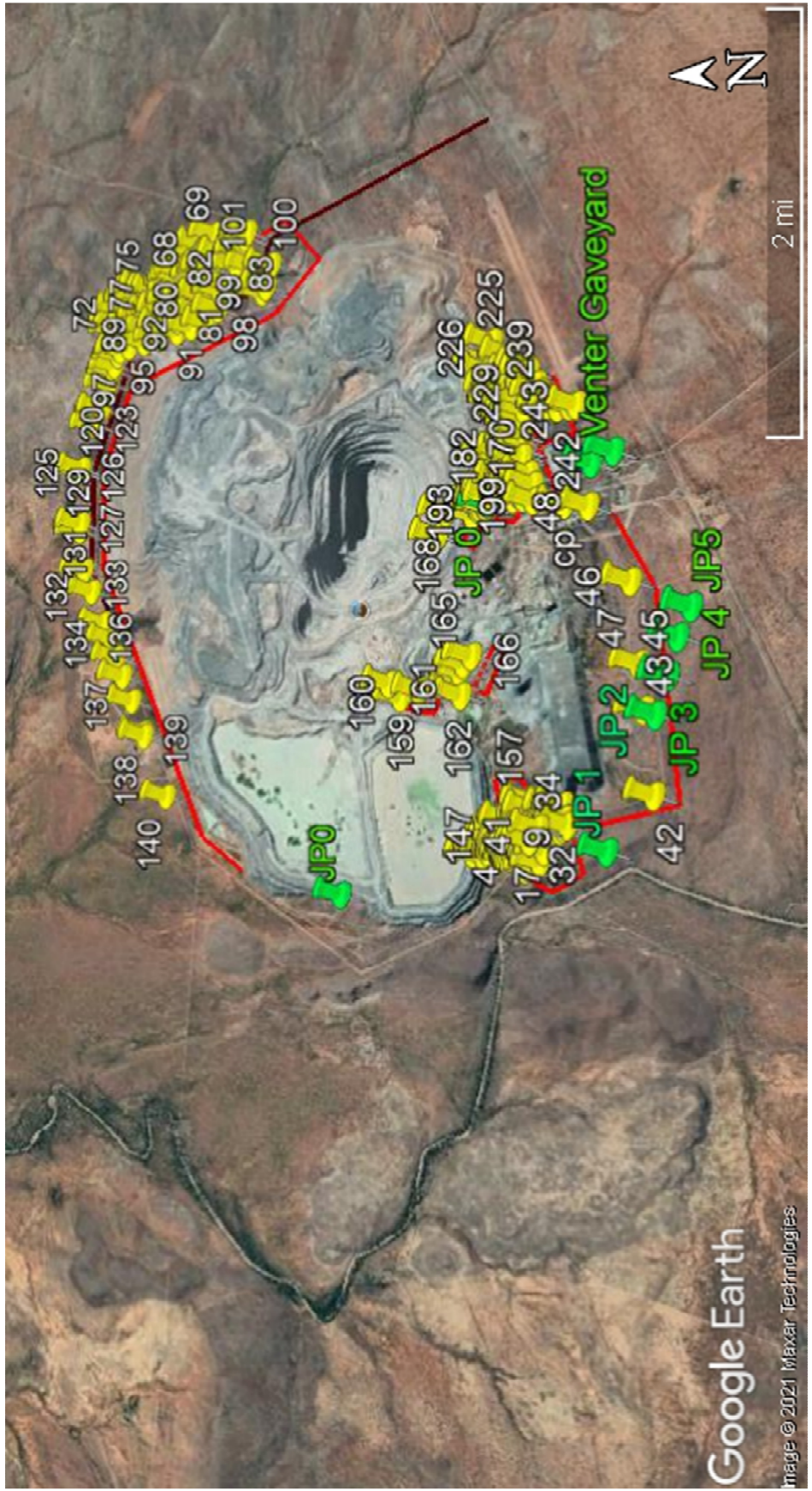


Fig. 06. All the points visited during the investigation marked by four dimensionally verified photographs. (Google Earth 2020.)



Fig. 07. All the points of the eastern portion visited during the investigation. (Google Earth 2020.)



Fig. 08. All the points on the north road visited during the investigation. (Google Earth 2020.)



Fig. 09. All the points visited in PCD3 during the investigation. (Google Earth 2020.)

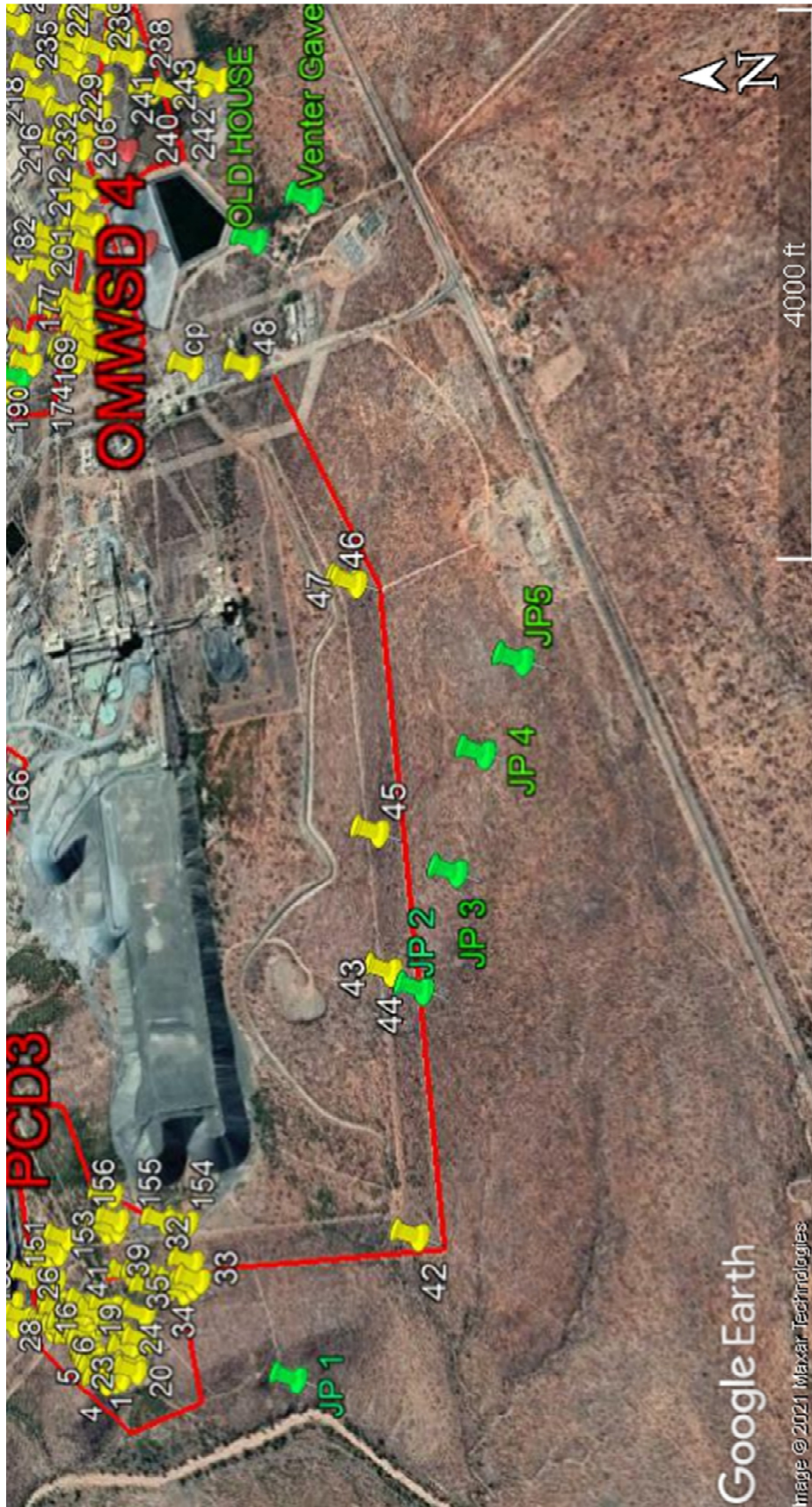


Fig. 10. All the points visited on the south road during the investigation. The green markers are approximation markers of the sites mentioned in Pistorius’s 2012 AIA. (Google Earth 2020.)

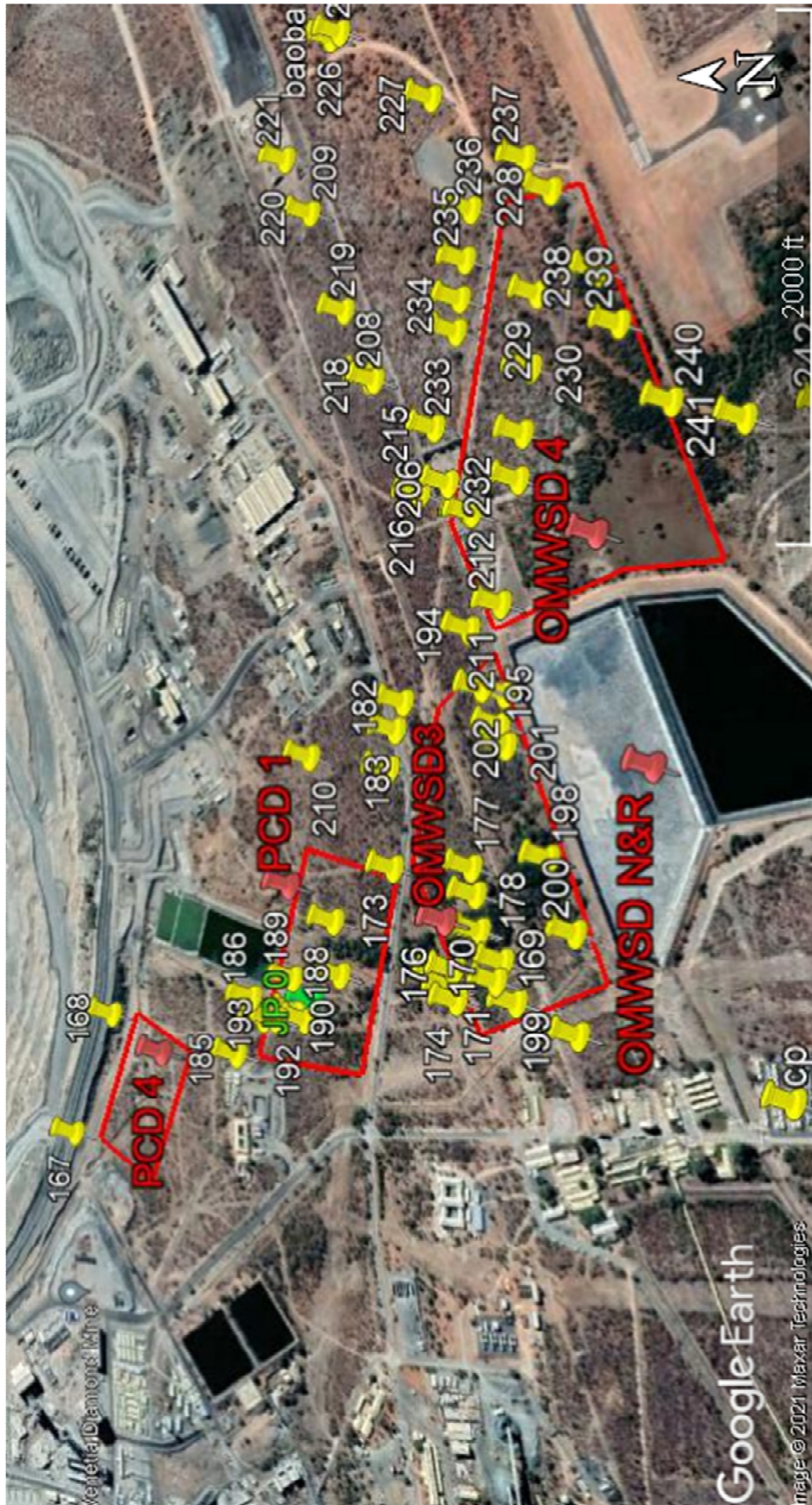


Fig. 11. All the points visited in PCD 4, PCD 1, OMWSD 3, OMWSD 4 and OMWSD N&R during the investigation. (Google Earth 2020.)



Fig. 12. All the points visited in RWD 1, PCD 2 and FRD RWD during the investigation. (Google Earth 2020.)



Fig. 13. The green marker is one of the points mentioned in the 2011 Pistorius AIA. (Google Earth 2020.)

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