



ASHA Consulting (Pty) Ltd

23 Dover Road

Muizenberg

7945

13 May 2021

Susanna Nel

Landscape Dynamics

3 Palomino Close, Die Wingerd

Somerset West

7130

MULILO TOTAL HYDRA STORAGE: CONFIRMATION OF PROTECTION OF HERITAGE RESOURCES

Dear Susanna

This letter is to confirm that the final approved layout for the three solar energy facilities forming part of the Mulilo Total Hydra Storage (MTHS) has considered and protected all known heritage resources. The three facilities making up the MTHS are known as:

- Badenhorst Solar PV2
- Badenhorst Dam Solar PV3; and
- Mulilo De Aar PV.

Heritage considerations

The present writer carried out the original impact assessment for all three of the PV facilities. These reports provide the data on which the conclusions of the present letter are based and are as follows:

Orton, J. 2012. Heritage Impact Assessment for three Solar Energy Facilities at De Aar, Western Cape. Unpublished report prepared for Aurecon South Africa (Pty) Ltd. St James: ACO Associates cc.

Orton, J. & Webley, L. 2013. Heritage Impact Assessment for multiple proposed Solar Energy Facilities on De Aar 180/1 (Badenhorst Dam Farm), De Aar, Northern Cape. Unpublished report prepared for Savannah Environmental (Pty) Ltd. Diep River: ACO Associates cc.

Map 1 below provides an overview of the three facilities. There are two areas of concern. One is the long dolerite dyke extending past the southern edge of Badenhorst Solar PV2 and along the western edge of Mulilo De Aar PV (Map 2). The second is a low rise occurring within the bounds of the Badenhorst Dam Solar PV3 area (Map 3).

It is clear that all the sites on the dolerite ridge have been avoided and will thus remain unharmed (Map 2). The closest that the access road comes to a GPB site is 50 m. These sites are difficult to identify by any people and, as such, no cordoning off or signage are required. It is better to not draw attention to the sites. The single GPC site along the existing farm access road is a small farm shed. It stands alongside the road and will not be affected in any way.

ASHA Consulting (Pty) Ltd

Reg. no.: 2013/220482/07 | Directors: Jayson Orton & Carol Orton

40 Brassie Street, Lakeside, 7945 | T: 021 788 1025 | C: 083 272 3225

Jayson@asha-consulting.co.za | Carol@asha-consulting.co.za | www.asha-consulting.co.za

The Stone Age sites within Badenhorst Dam Solar PV3 have been avoided with buffers of at least 20 m to the sites graded GPB. The archaeological materials will be entirely surrounded by solar panels which will offer them excellent protection going forward.

Two small mid-20th century farm structures occur near the southern end of the existing farm access road. Their age is unknown but, even if they are older than 60 years, they are of no heritage significance. The road will, nonetheless, avoid these structures.

The only potential issue could be unmarked graves but there is absolutely no way of predicting their locations and they can only be dealt with at the time of discovery.

There may well be isolated Stone Age artefacts present on the land to be developed but these are not an issue. All known concentrations of artefacts (which are associated with elevated landforms) have been avoided.

Compliance statements

Badenhorst Solar PV2

The layout has avoided all known heritage resources and there re no further heritage concerns.

Badenhorst Dam Solar PV3

The layout has avoided all known heritage resources and there re no further heritage concerns.


Mulilo De Aar PV.

The layout has avoided all known heritage resources and there re no further heritage concerns.

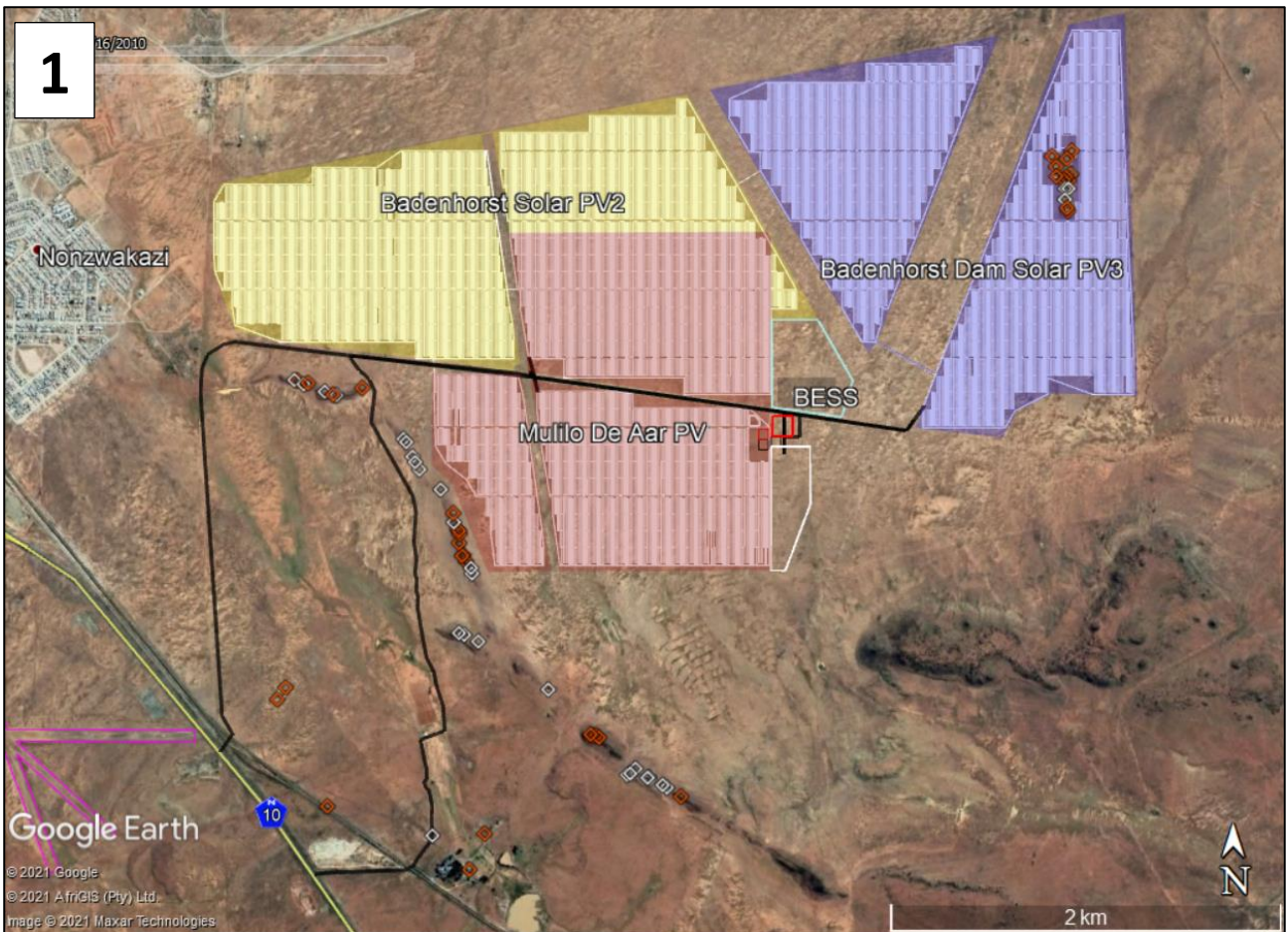
Conclusion

It is thus the considered opinion of the present specialist that all work on the PV facilities and their associated offices, laydown areas, BESS, etc may commence following the layouts shown in the maps below.

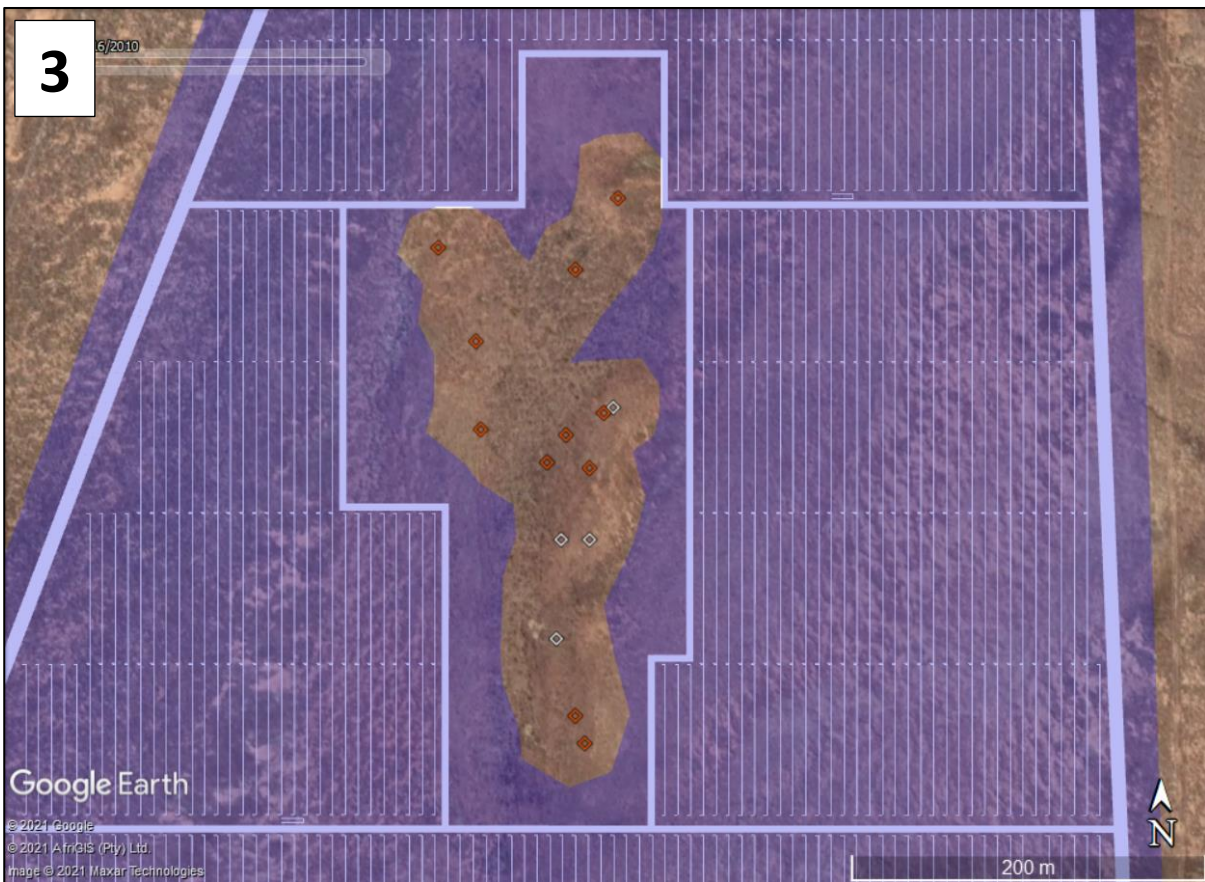
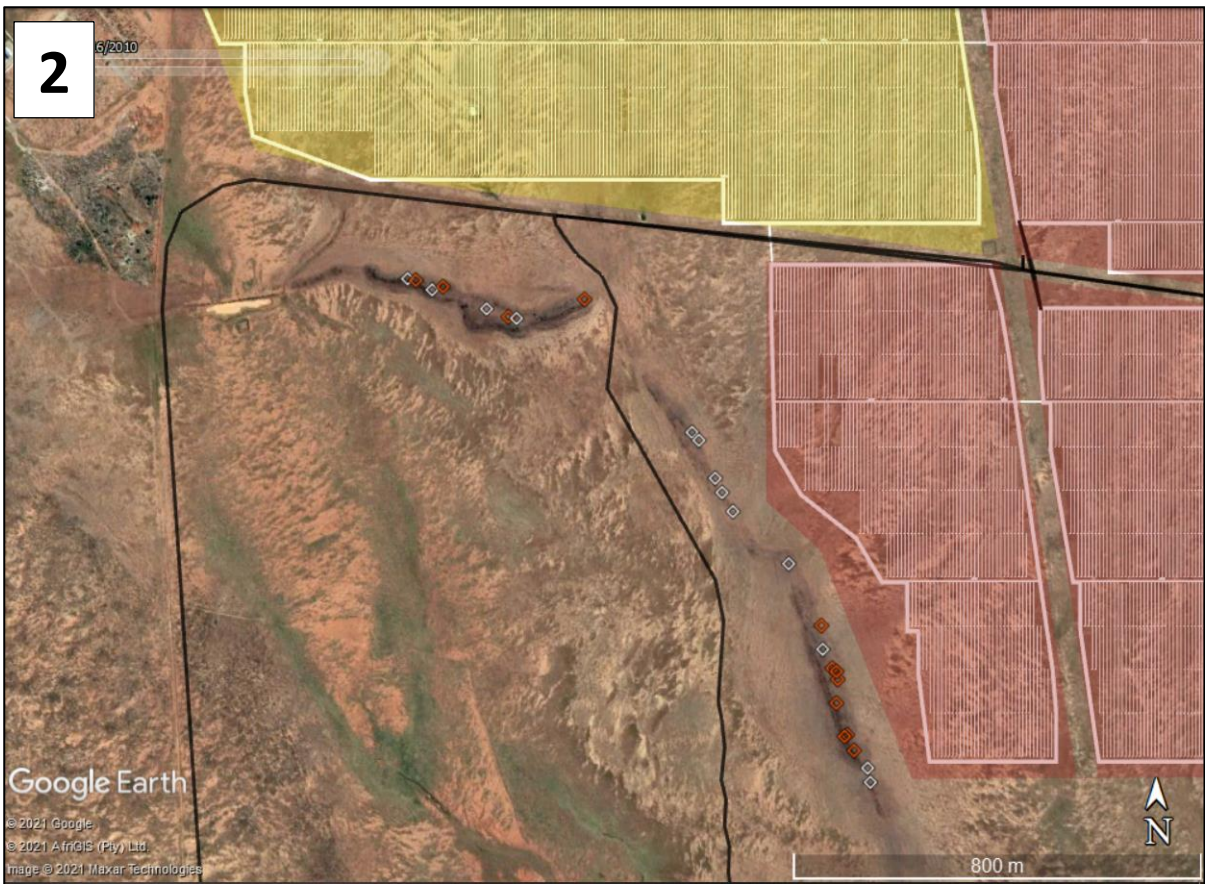
Yours sincerely



Jayson Orton



Aerial view of the MTHS area showing the three individual solar facility areas in red, yellow and blue. The vertical stripes represent the panels. The access roads are in black. Related facilities (offices, laydown, battery energy storage system [BESS]) are all clustered to the east of the Mulilo De Aar PV facility. Heritage resources are denoted by diamonds with white ones being graded GPC and orange ones GPB.



ASHA Consulting (Pty) Ltd

Reg. no.: 2013/220482/07 | Directors: Jayson Orton & Carol Orton

40 Brassie Street, Lakeside, 7945 | T: 021 788 1025 | C: 083 272 3225

Jayson@asha-consulting.co.za | Carol@asha-consulting.co.za | www.asha-consulting.co.za