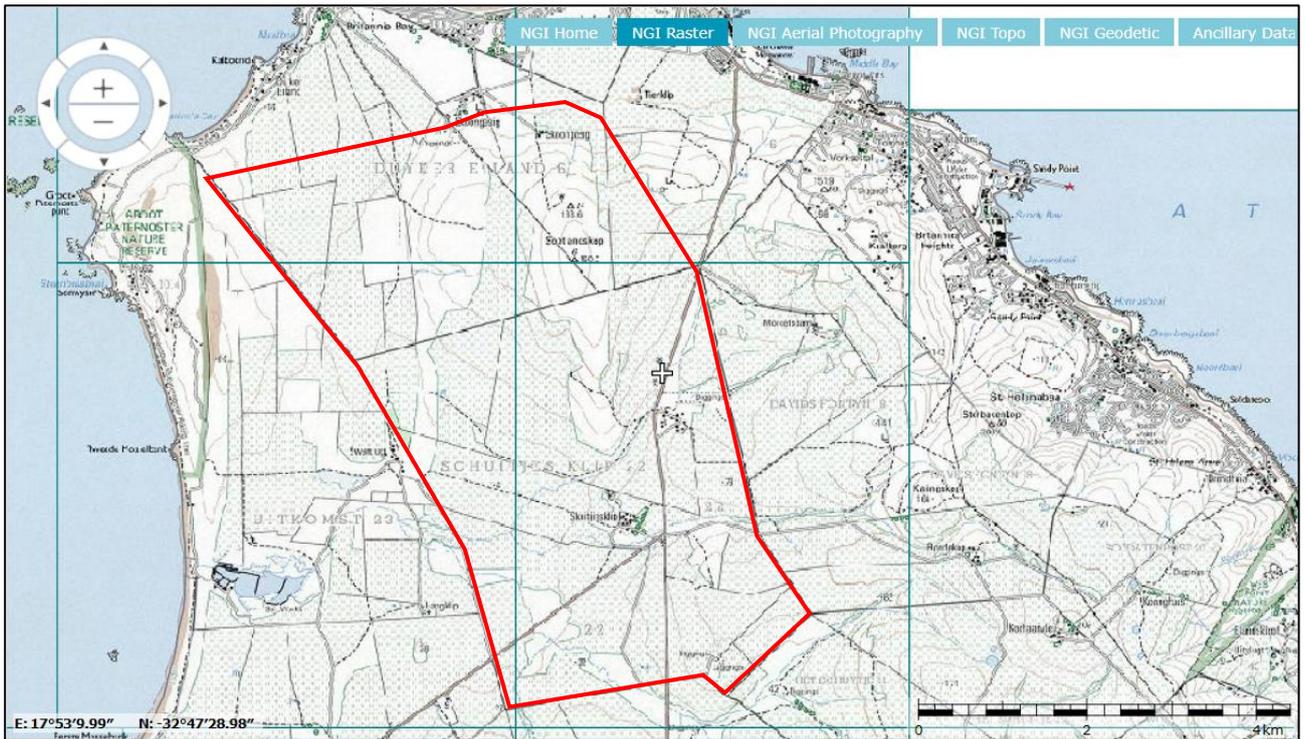


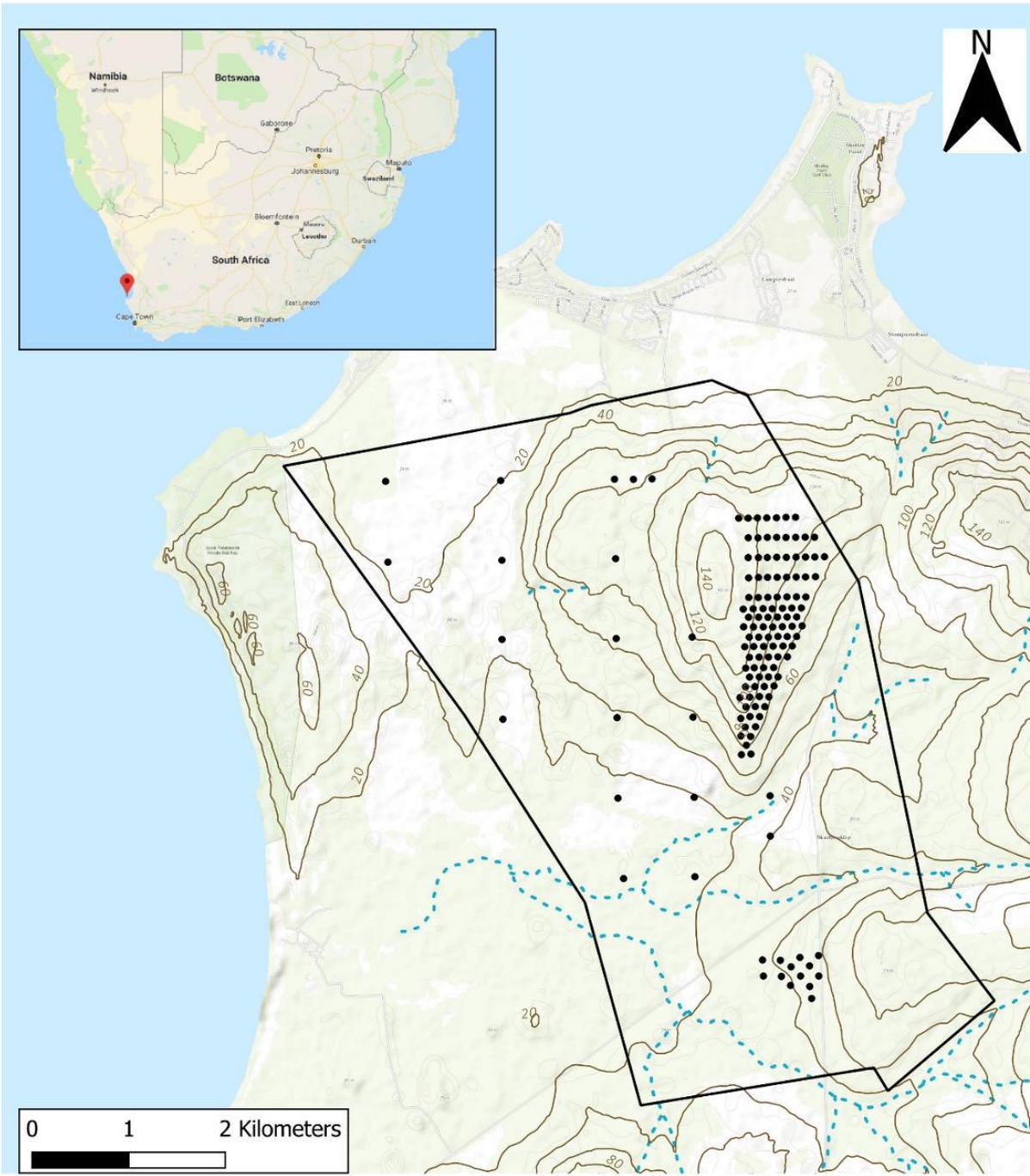
NID supporting document: prospecting on portions of Duiker Eiland and Schuit Klip, Vredenburg Peninsula.



Extract from 1:50 000 mapsheets 3217DB & 3217DD showing the location of the site (red shaded polygon). Source of basemap: <http://www.cdngiportal.co.za/cdngiportal/>.

Aerial view of the study area (red polygon) showing the boundaries of the farm portions (yellow).





Drawn By: Nicole Wienand
Date: January 2019

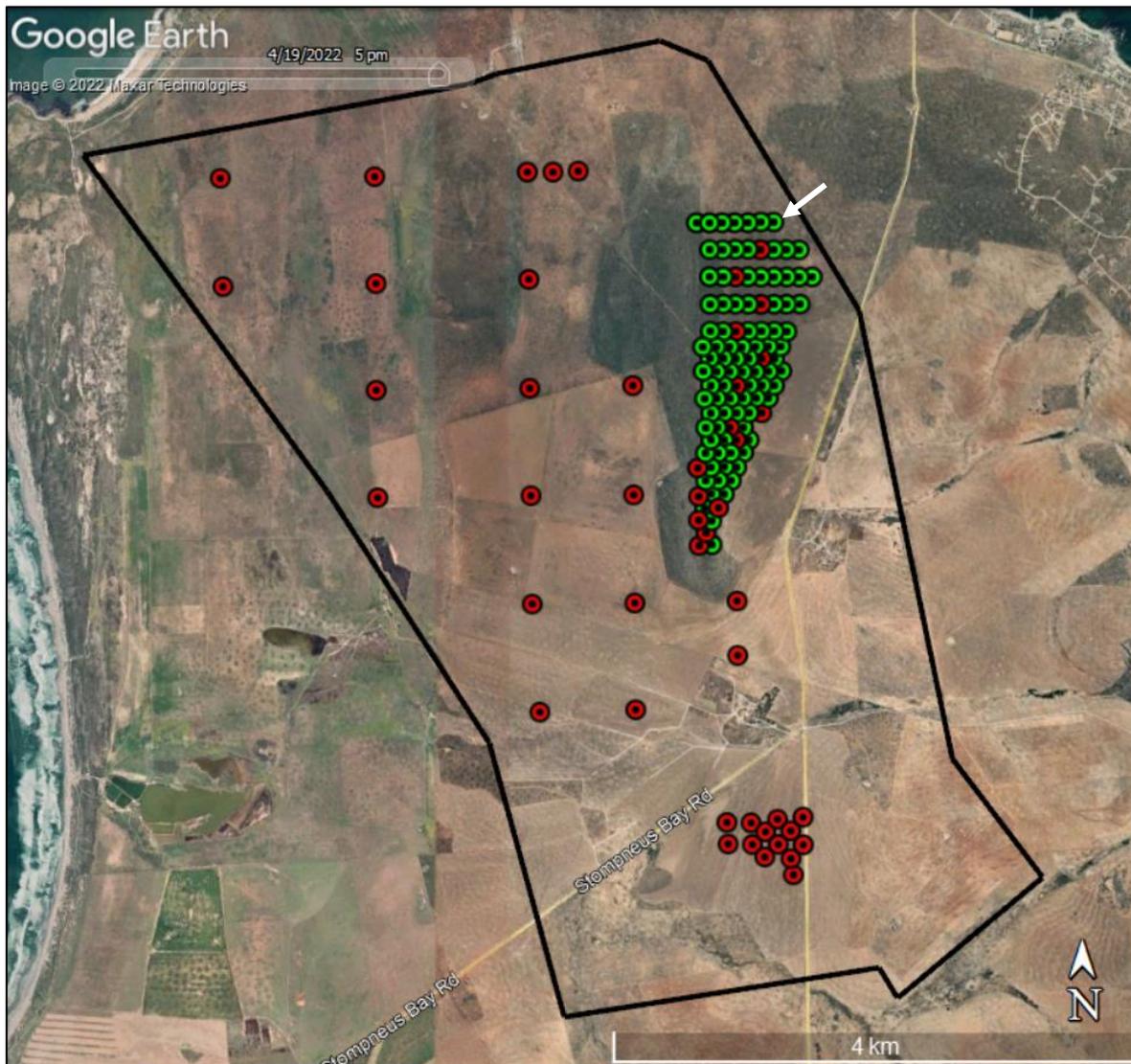
1: 65 000

DUYKER ISLAND PROSPECTING
TOPOGRAPHICAL MAP

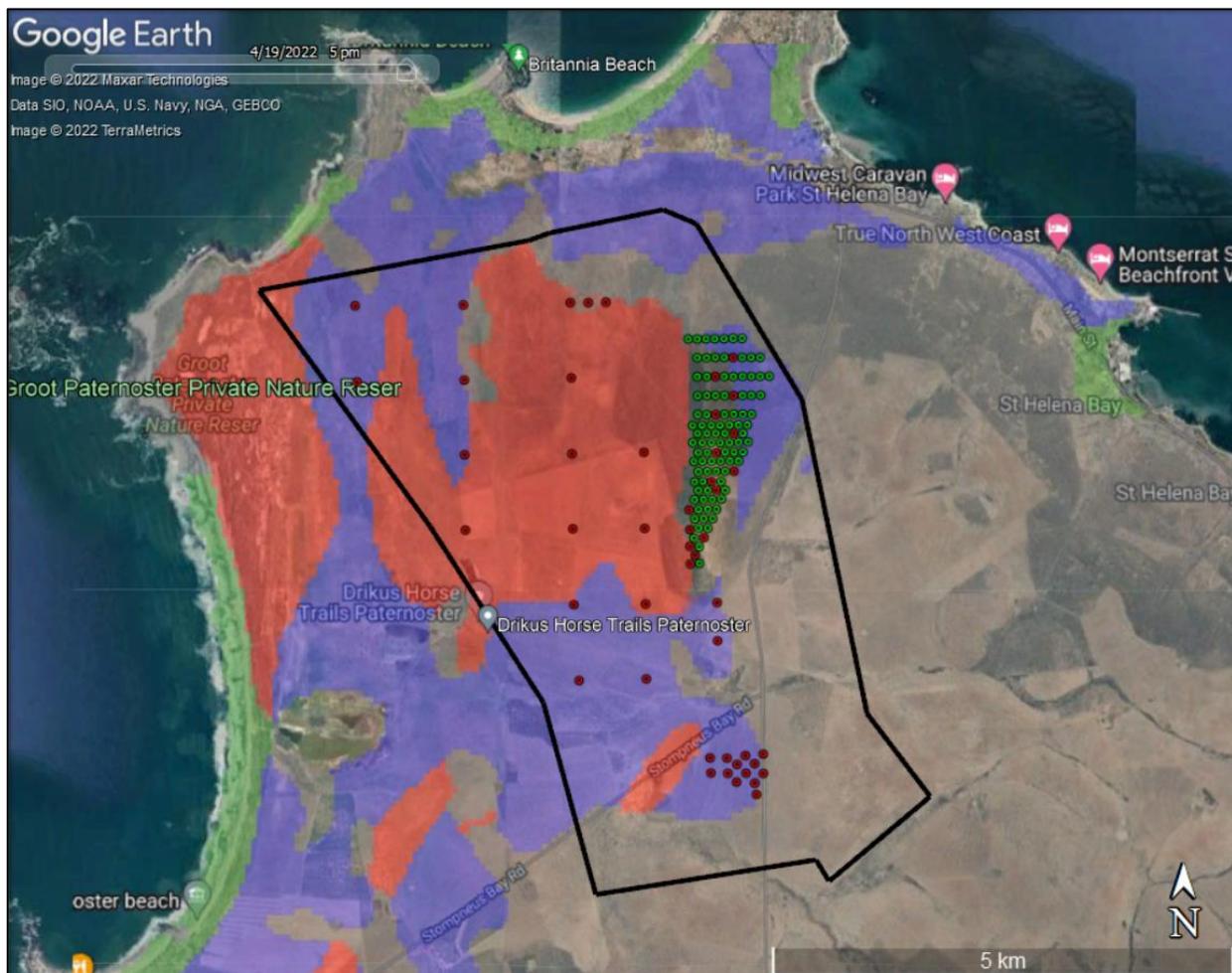
Legend

-  Site Boundary
-  Drill Hole Coordinates
-  Contours
-  Non-Perennial Rivers

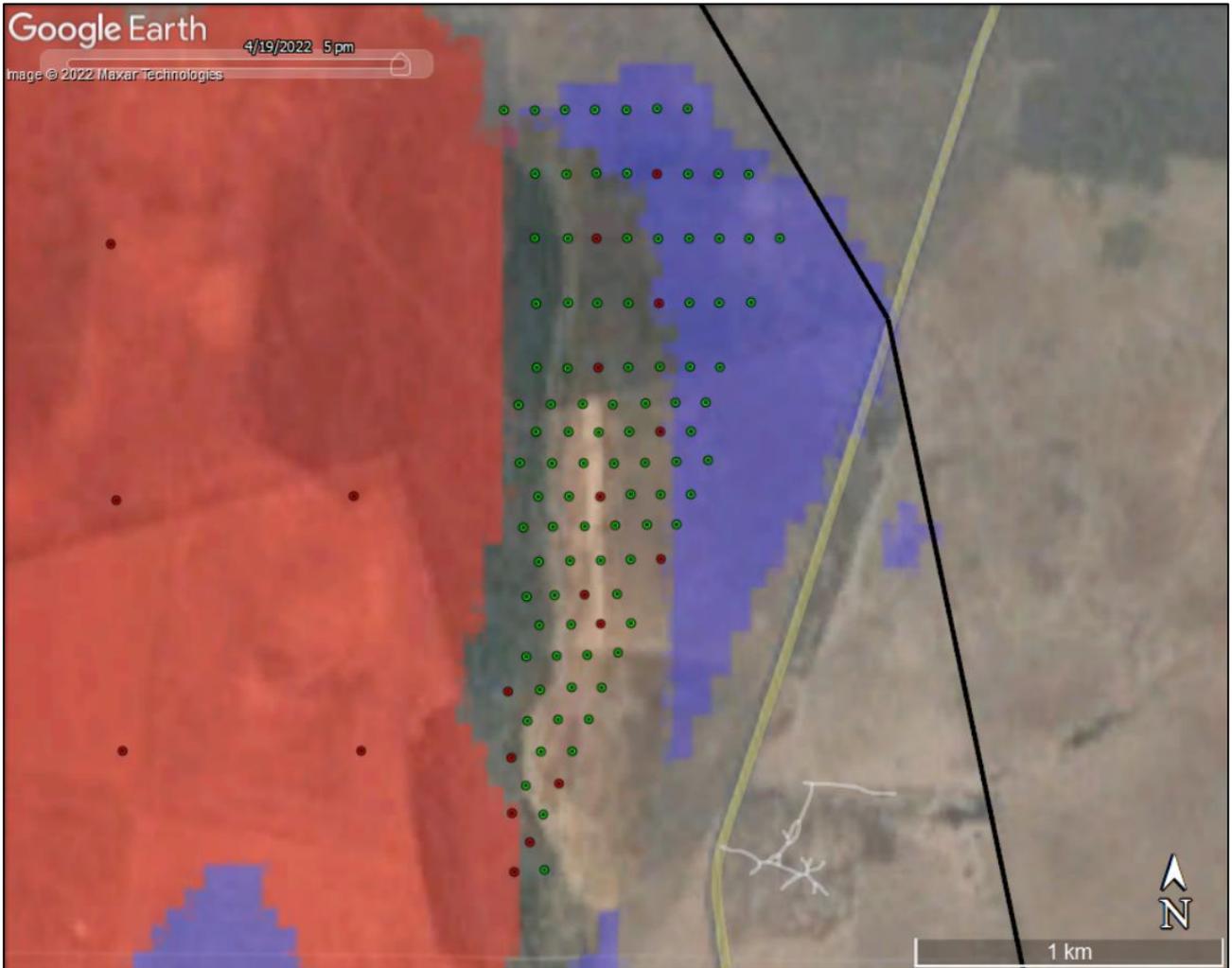
Contour map showing that most proposed drill sites lie on high ground on the eastern side of the large calcrete ridge crossing the study area from north to south.



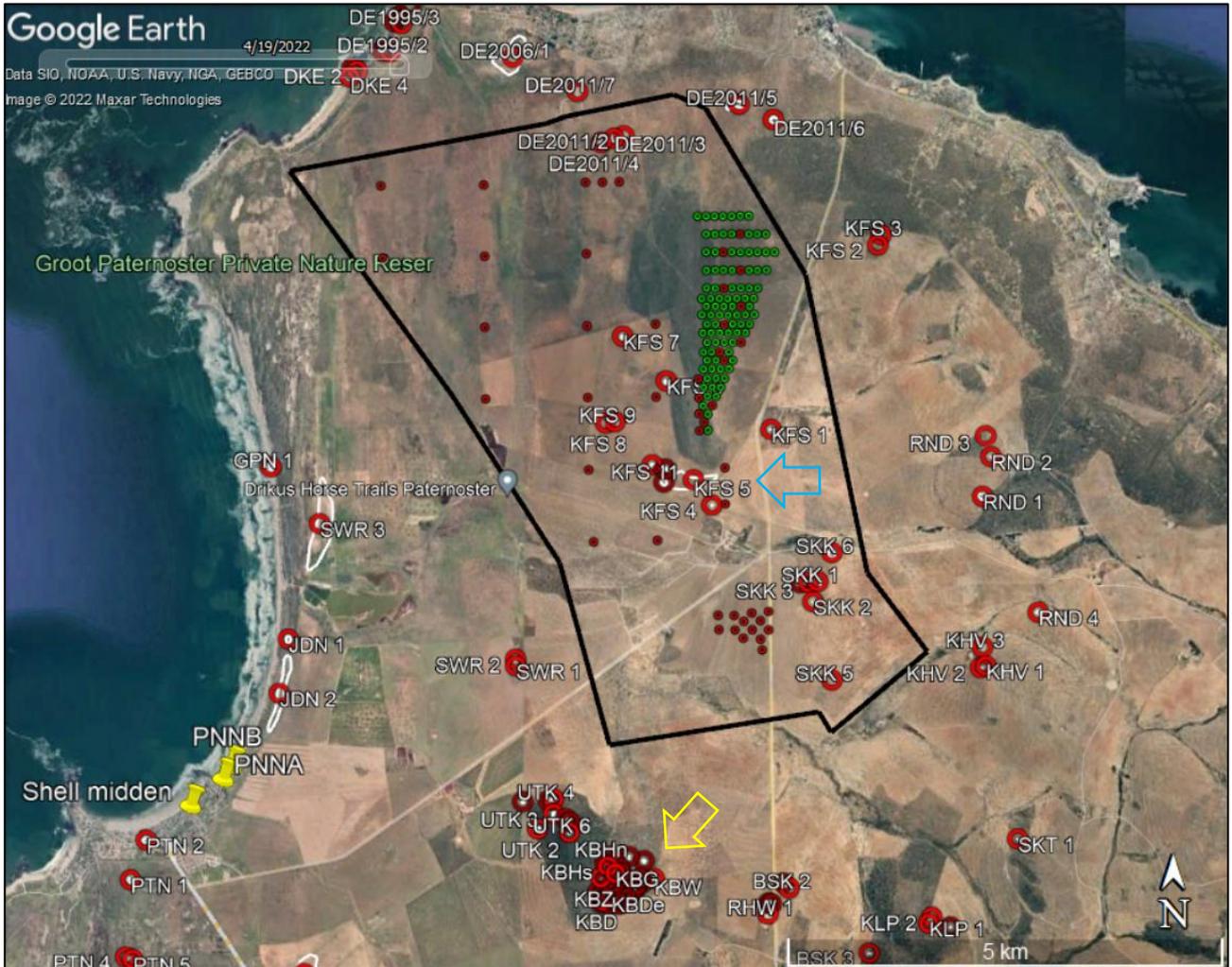
Aerial view of the study area (black polygon) showing the drilling sites (red and green dots). The single hole in the northwest that has been omitted from the final plan due to archaeological findings is arrowed in white.



Aerial view of the study area (black polygon) showing the drilling sites (red and green dots) over the palaeontological sensitivity. Red = very high, blue = low, grey = zero sensitivity.



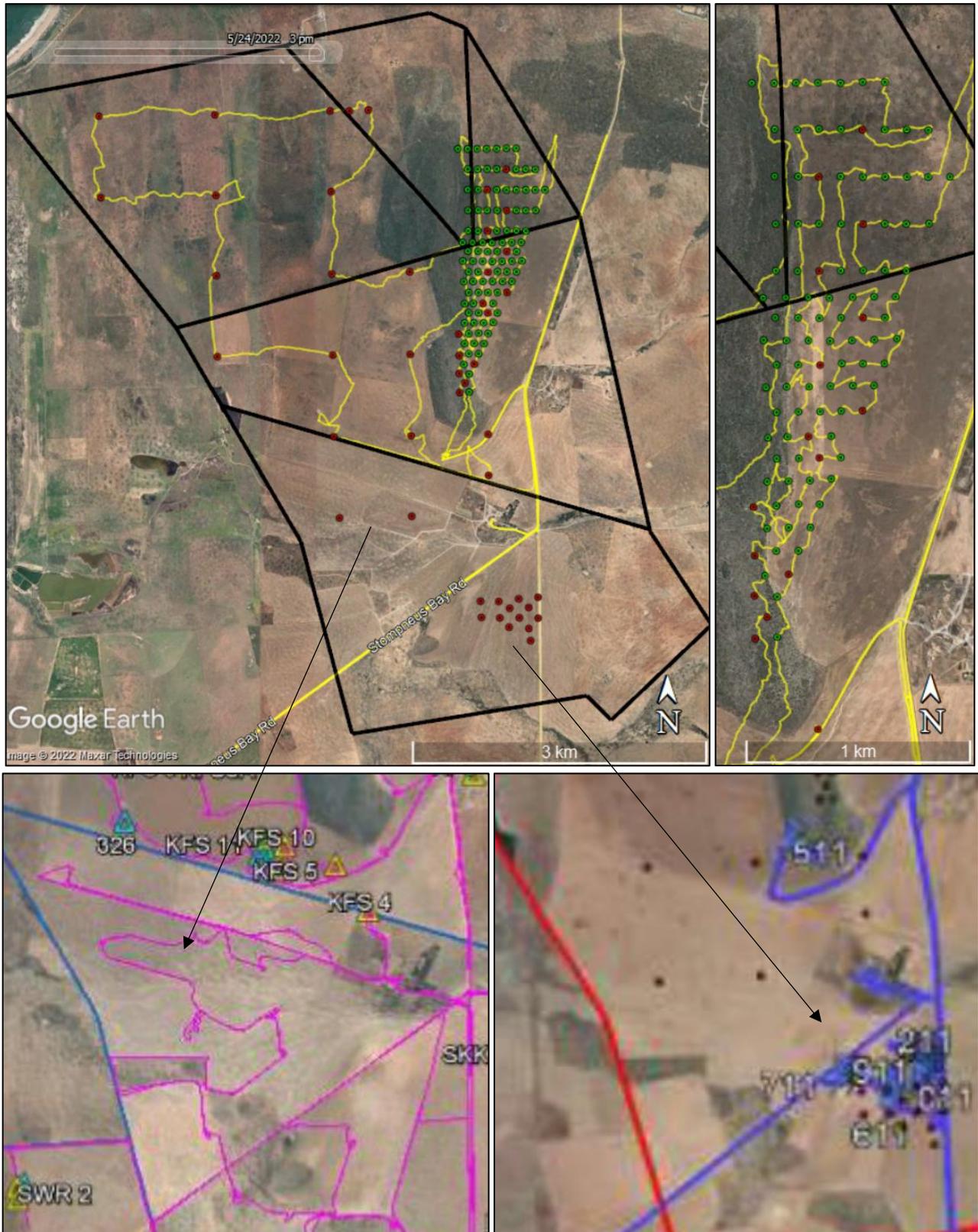
Enlargement of the palaeosensitivity map showing the area of greatest concentration of drill holes to be over geology of zero (grey shading) and low sensitivity (blue shading).



Map showing known archaeological sites in the study area. Source: Karim Sadr. The well-known Kasteelberg Complex is to the south of the study area (yellow arrow), while another published site, KFS5, lies within the study area (blue arrow).

Survey tracks from the site visit on 23 and 24 May 2022

Due to unforeseen circumstances, access was not permitted for Farm 22/3 in the south, hence no survey was undertaken there in 2022. However, the relevant areas were covered by Kaplan in his 2019 survey (screenshot with blue tracks covers the small cluster of holes) and by Halkett and Hart (2019) in their 2011 and 2015 surveys (screenshot with pink tracks covers the two isolated holes).

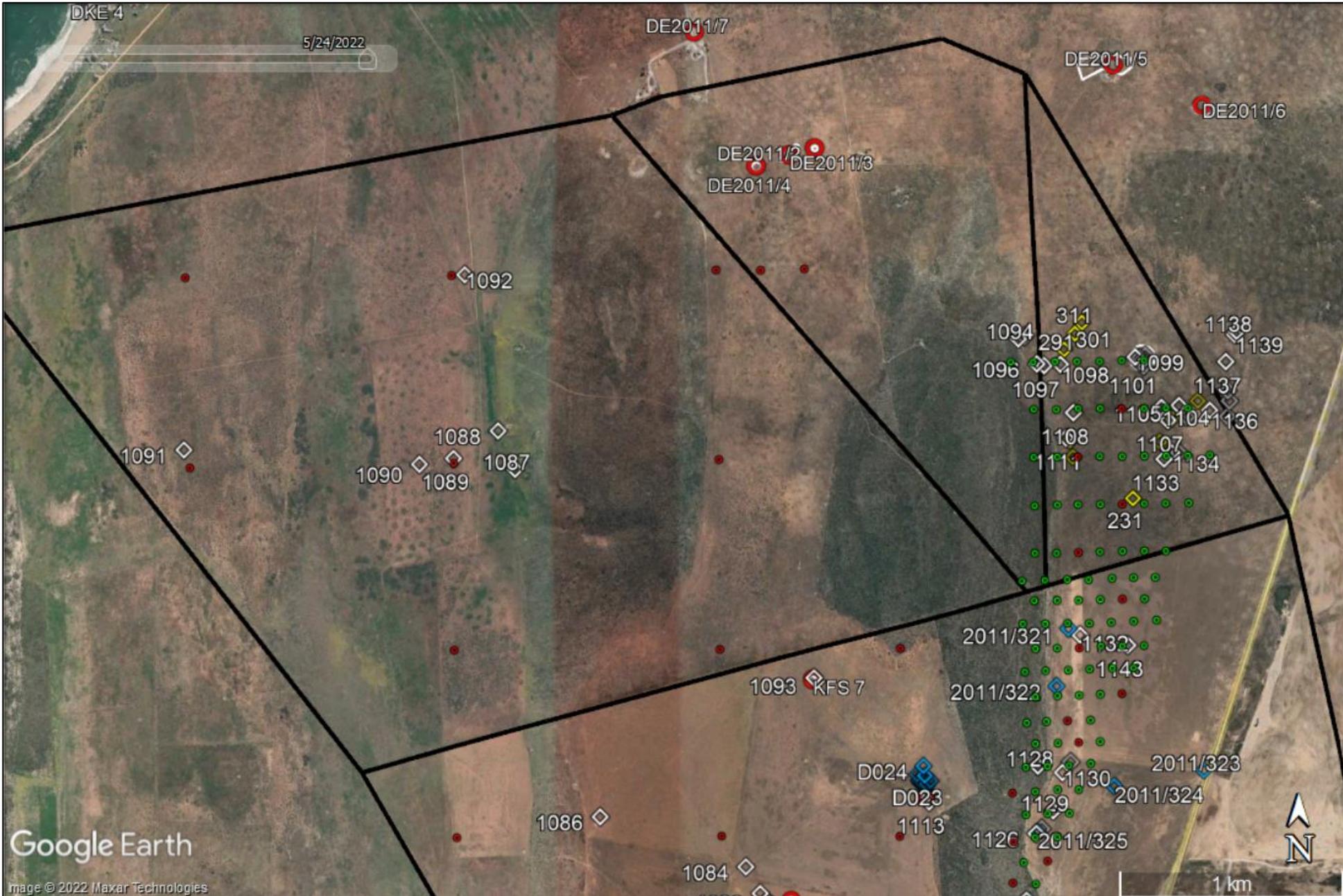


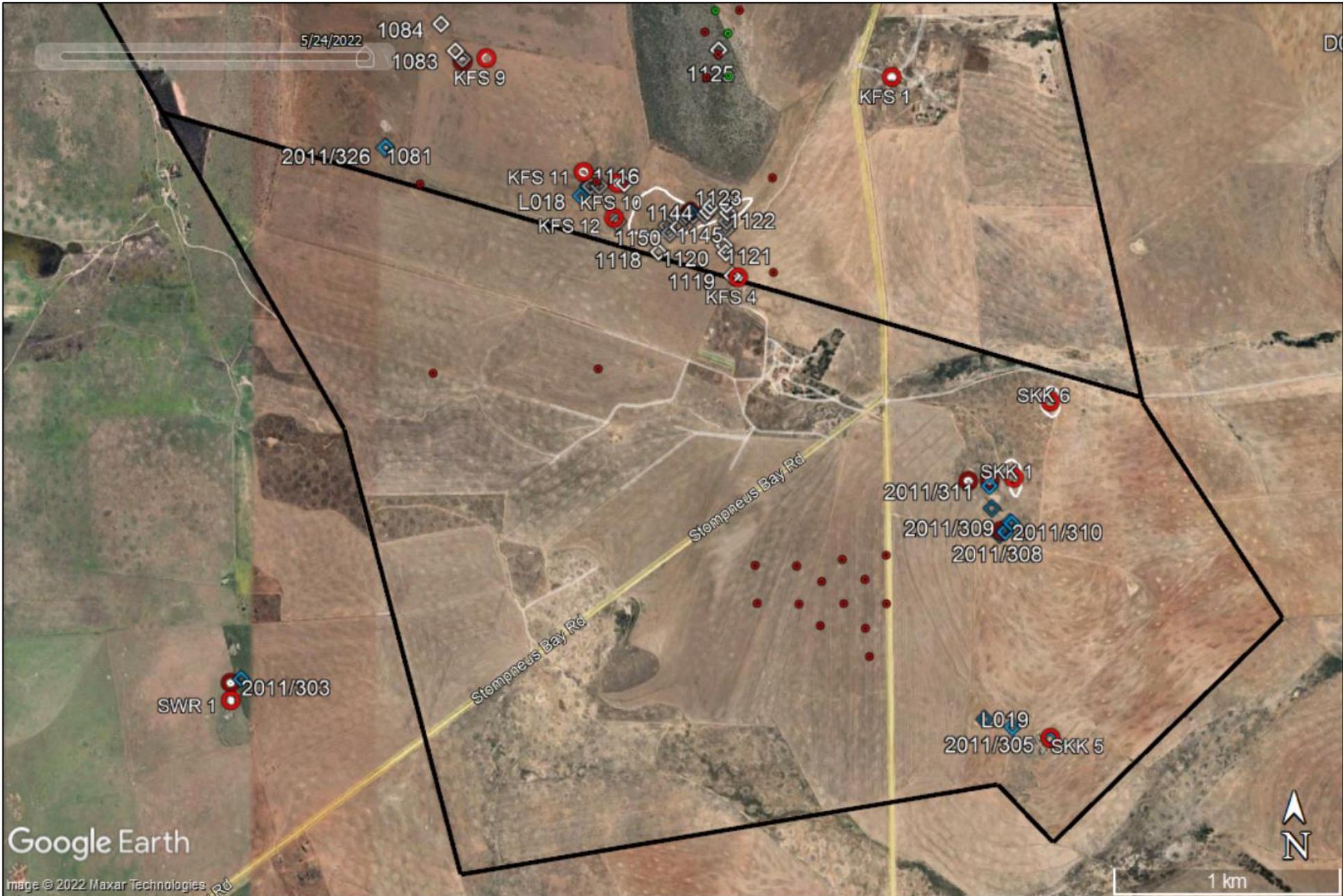
Map of finds

White symbols recorded during the present survey.

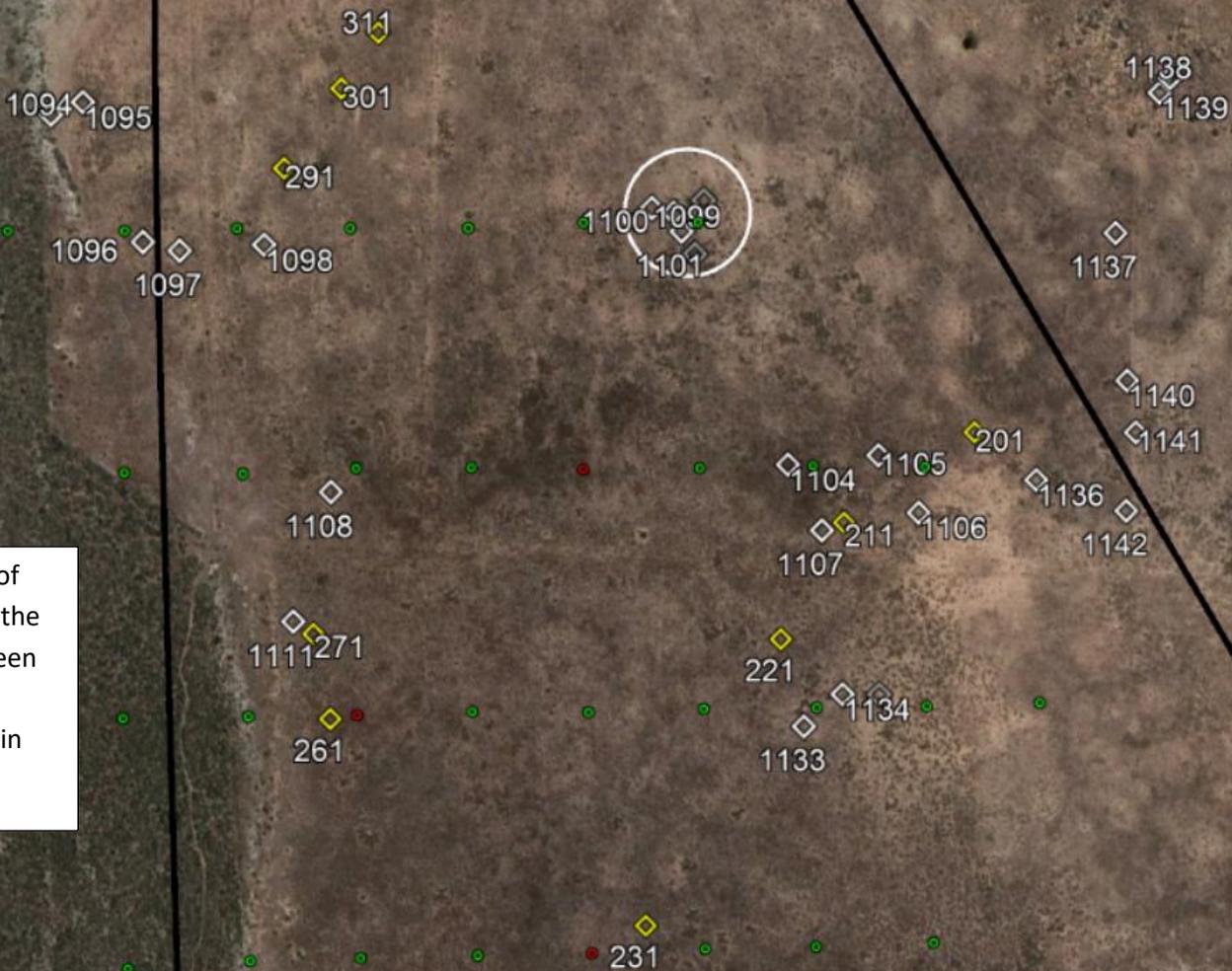
Yellow symbols recorded by Kaplan in 2019 (only shell scatters mapped here, not isolated artefacts). One of his sites graded IIIC is within 25 m of a drill hole, the rest re all 50 m or more from drill holes.

Blue symbols recorded by Halket and Hart in 2011 and 2014. None of their sites graded IIIC or higher is impacted.





5/24/2022



North-eastern part of the study area with the one hole that has been dropped due to archaeology circled in white.

Google Earth

Image © 2022 Maxar Technologies

500 m



5/24/2022

1125

KFS 11

1116
KFS 10

1115
L018

KFS 12
1117

1144
KFS 5
1146
1148
1150
1124
1123
1145
1122
CER 2
CER 1

1121
1120

1118

1119
KFS 4

South-central part of the study area showing the vicinity of KFS5 (large white polygon at bottom centre).

Google Earth

Image © 2022 Maxar Technologies

500 m



Views of study area on 23 and 24 May 2022



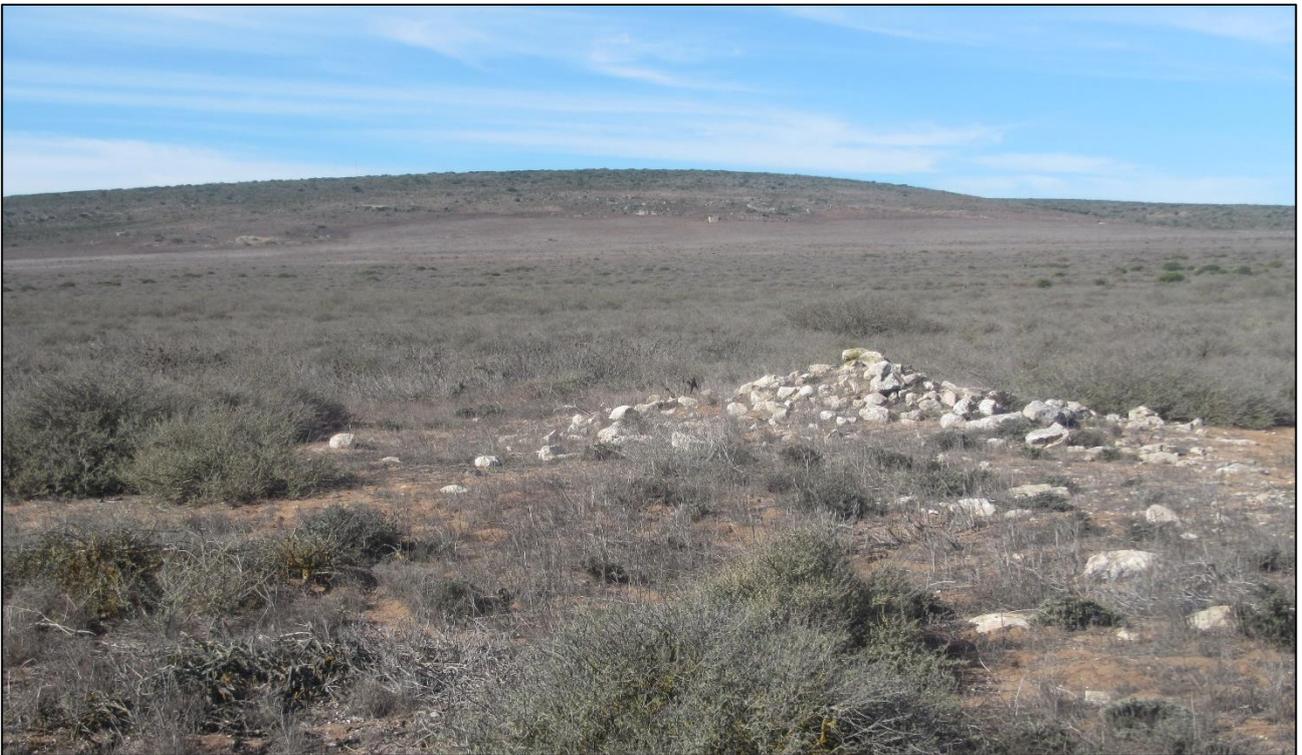
Looking north through the centre of the study area showing agricultural lands.



Looking east from the western edge of the study area showing fallow lands.



Looking north in the western part of the study area showing fallow lands.



Looking east in the western part of the study area showing calcrete cleared from fields in the past (this area is currently fallow).



Looking west off a calcrete ridge through the northern part of the study area.



Looking southeast in the northern part of the study area over the top of the largest calcrete ridge.



Looking south through the centre of the study area with Kasteelberg on the skyline.



Looking southwest through the centre of the study area with Paternoster in the distance in the centre of the photograph.



Looking north along the largest calcrete ridge in the centre of the study area showing the dense bush there.



Looking south through the eastern part of the study area towards the farm complex on Farm 22/1.



View of the calcrete on the large ridge through the study area.



Looking west across fallow lands in the eastern part of the study area.



Looking west across the southern part of the study area with the location of KFS5 ringed.



Looking south along the road through the eastern part of the study area towards the southern cluster of drill holes.

Finds from the survey

Notes:

- The silver and black scale bar is in 50 mm intervals.
- Sites with very little shell are allocated IIIC/NCW because of the uncertainty around sites in ploughed lands. Sieving would be needed to determine their true density.
- Sites with moderate to dense shell were allocated IIIC, except in the case of KFS5 (IIIB) which is an extensive site with many associated materials.
- Only some sites were photographed, since most sites were just ephemeral scatters of small shell fragments.
- Initially some patches of burnt calcrete gravel were recorded, but it was later noted that recent burnt patches with burnt calcrete fragments occurred throughout the area and must relate to the farmers burning vegetation in small piles while preparing the land for planting. These waypoints were not retained.

Waypoint	Location	Description	Grade
1081	S32 46 08.4 E17 56 41.5	<p>A ruined stone, mud and cement cottage with wooden lintols over the remaining door and window openings. The stone is local calcrete and the cement plaster is on the outside of the walls but much has fallen off. The front wall facing towards the southwest is still standing along with most of the hearth and chimney stack on the south-eastern end. The other walls have all collapsed. Some corrugated iron sheets are present amongst the rubble. Recorded as 2011/326 in Halkett & Hart (2019).</p> 	IIIC
1082	S32 45 55.9 E17 56 54.9	Ephemeral shell scatter. This is site KFS8 as recorded by Sadr (pers. comm.). The bone is likely from a recent sheep death (other bones were seen in the surrounding area).	IIIC/NCW

Waypoint	Location	Description	Grade
			
1083	S32 45 54.7 E17 56 53.7	Ephemeral shell scatter with some silcrete and quartz flaked stone artefacts. Very close to KFS8 as recorded by Sadr (pers. comm.). 	IIIC/NCW
1084	S32 45 50.9 E17 56 51.3	Ephemeral shell scatter.	IIIC/NCW
1087	S32 44 54.1 E17 56 11.9	A small, square stone and cement reservoir. It is plastered on the inside. 	IIIC
1088	S32 44 48.6 E17 56 09.0	Cement water/feeding trough. Looks modern. 	n/a
1089	S32 44 52.6 E17 56 01.3	Ephemeral shell scatter. 	IIIC/NCW
1090	S32 44 53.4 E17 55 55.4	Ephemeral shell scatter.	IIIC/NCW

Waypoint	Location	Description	Grade
			
1091	S32 44 51.4 E17 55 14.9	Ephemeral flaked stone artefact scatter. Just four artefacts seen, three in quartz and one in quartz porphyry. 	IIIC/NCW
1092	S32 44 26.3 E17 56 03.1	Ephemeral shell scatter.	IIIC/NCW
1093	S32 45 23.6 E17 57 02.7	Ephemeral shell scatter. This is site KFS7 as recorded by Sadr (pers. comm.).	IIIC/NCW
1094	S32 44 35.8 E17 57 36.9	Ephemeral shell scatter. Same scatter as 1095. 	IIIC/NCW
1095	S32 44 35.4 E17 57 37.9	Ephemeral shell scatter. Same scatter as 1094.	
1096	S32 44 39.3 E17 57 40.0	Ephemeral shell scatter. Same scatter as 1097. 	IIIC/NCW
1097	S32 44 39.5 E17 57 41.2	Ephemeral shell scatter. Same scatter as 1096.	
1098	S32 44 39.4 E17 57 43.9	Ephemeral shell scatter.	IIIC/NCW
1099	S32 44 38.3 E17 57 56.7	Moderate density shell scatter with quartz flaked stone artefacts and an upper grindstone fragment. Waypoints 1099 to 1103 are one site.	IIIC

Waypoint	Location	Description	Grade
			
1100	S32 44 38.4 E17 57 57.4	Moderate density shell scatter with quartz flaked stone artefacts. Waypoints 1099 to 1103 are one site. 	
1101	S32 44 38.9 E17 57 57.7	Moderate density shell scatter with quartz and silcrete flaked stone artefacts. Waypoints 1099 to 1103 are one site. 	
1102	S32 44 38.1 E17 57 58.4	Moderate density shell scatter. Waypoints 1099 to 1103 are one site.	
1103	S32 44 39.6 E17 57 58.1	Dense shell scatter. Waypoints 1099 to 1103 are one site.	
1104	S32 44 45.4 E17 58 01.2	Ephemeral shell scatter.	IIIC/NCW
1105	S32 44 45.1 E17 58 04.2	Ephemeral shell scatter.	IIIC/NCW
1106	S32 44 46.7 E17 58 05.6	Ephemeral shell scatter.	IIIC/NCW
1107	S32 44 47.2 E17 58 02.3	Ephemeral shell scatter with quartz flaked stone artefacts.	IIIC/NCW
1108	S32 44 46.1 E17 57 46.1	Ephemeral shell scatter.	IIIC/NCW
1111	S32 44 49.7 E17 57 44.9	Ephemeral shell scatter.	IIIC/NCW
1113	S32 45 41.2 E17 57 22.3	Single shell fragment. This is site KFS6 as recorded by Sadr (pers. comm.).	IIIC/NCW
1114	S32 46 14.0 E17 57 16.8	An ephemeral shell scatter. Hammerstone found very close to this waypoint. This is just south of site KFS11 as recorded by Sadr (pers. comm.) but nothing was seen at their site location. Recorded by Halkett & Hart (2019) as L014.	IIIC/NCW

Waypoint	Location	Description	Grade
			
1115	S32 46 13.9 E17 57 18.3	Ephemeral shell scatter. This is just south of site KFS11 as recorded by Sadr (pers. comm.) but nothing was seen at their site location.	IIIC/NCW
1116	S32 46 13.6 E17 57 22.6	Ephemeral shell scatter with a quartz flake and a silcrete single platform core. This is site KFS10 as recorded by Sadr (pers. comm.).	IIIC/NCW
1117	S32 46 19.0 E17 57 21.4	This is site KFS10 as recorded by Sadr (pers. comm.) but nothing at all was seen during the present survey.	IIIC/NCW
1118	S32 46 23.4 E17 57 28.5	An isolated half of a bored stone made in calcrete/aeolianite. It was found just to the south of KFS5 in an area without shell scatter. 	NCW
1119	S32 46 26.8 E17 57 41.2	Ephemeral shell scatter. This is site KFS4 as recorded by Sadr (pers. comm.).	IIIC/NCW
1120	S32 46 23.5 E17 57 40.1	Ephemeral shell scatter with some quartz flaked stone artefacts.	IIIC/NCW
1121	S32 46 22.5 E17 57 39.8	Moderate density shell scatter.	IIIC/NCW
1122	S32 46 17.7 E17 57 40.4	Moderate shell scatter. This is within the bounds of KFS5 (Fauvelle-Aymar <i>et al.</i> 2006).	IIIB
1123	S32 46 16.6 E17 57 40.2	Moderate shell scatter. This is within the bounds of KFS5 (Fauvelle-Aymar <i>et al.</i> 2006).	
1124	S32 46 20.6 E17 57 30.4	Ephemeral shell scatter with a refined white earthenware fragment and a piece of green bottle glass. The glass surface is oxidised and shows evidence of having been flaked (the oxidation extends onto the flaked area indicating that it is not recent damage, and, being in a sandy context, is unlikely to have been from ploughing). This is within the bounds of KFS5 (Fauvelle-Aymar <i>et al.</i> 2006).  	

Waypoint	Location	Description	Grade
			
1144	S32 46 16.9 E17 57 37.4	Dense shell scatter with quartz flaked stone artefacts. This is within the bounds of KFS5 (Fauvelle-Aymar <i>et al.</i> 2006).	
1145	S32 46 17.6 E17 57 36.9	Dense shell scatter. This is within the bounds of KFS5 (Fauvelle-Aymar <i>et al.</i> 2006). 	
1146	S32 46 18.0 E17 57 36.4	Dense shell scatter. This is within the bounds of KFS5 (Fauvelle-Aymar <i>et al.</i> 2006).	
1147	S32 46 18.1 E17 57 34.4	Dense shell scatter. This is within the bounds of KFS5 (Fauvelle-Aymar <i>et al.</i> 2006).	
1148	S32 46 18.1 E17 57 33.2	Dense shell scatter. This is within the bounds of KFS5 (Fauvelle-Aymar <i>et al.</i> 2006).	
1149	S32 46 18.4 E17 57 32.9	Dense shell scatter. This is within the bounds of KFS5 (Fauvelle-Aymar <i>et al.</i> 2006).	
1150	S32 46 19.8 E17 57 31.9	Dense shell scatter with lots of pottery and some flaked stone artefacts in quartz, silcrete and possibly crypto-crystalline silica. Also a piece of glass, a piece of refined white earthenware and a fragment of iron (perhaps from a potjie). Also a piece of what Fauvelle-Aymar <i>et al.</i> (2006) considered to be vitrified dung. This is within the bounds of KFS5 (Fauvelle-Aymar <i>et al.</i> 2006). 	

Waypoint	Location	Description	Grade
			
1151	S32 46 19.6 E17 57 30.1	<p>Dense shell scatter. This is within the bounds of KFS5 (Fauvelle-Aymar <i>et al.</i> 2006).</p> 	
1125	S32 45 55.1 E17 57 38.7	<p>Trace fossils in calcrete.</p> 	NCW
1126	S32 45 45.5 E17 57 40.2	<p>Ephemeral shell scatter. Recorded by Halkett & Hart (2019) as 2011/325.</p>	IIIC/NCW
1127	S32 45 44.8 E17 57 41.1	<p>Ephemeral shell scatter.</p> 	IIIC/NCW
1128	S32 45 35.9 E17 57 40.3	<p>Fossil snail shell fragment in calcrete.</p> 	NCW

Waypoint	Location	Description	Grade
1129	S32 45 42.3 E17 57 43.1	Ephemeral shell scatter.	IIIC/NCW
1130	S32 45 36.9 E17 57 44.6	Ephemeral shell scatter.	IIIC/NCW
1131	S32 45 35.4 E17 57 46.0	Moderate density shell scatter with one quartz flaked stone artefact and one potsherd seen. 	IIIC
1132	S32 45 17.5 E17 57 47.5	Ephemeral shell scatter with a flaked cobble in what looks like a quartz porphyry. 	IIIC/NCW
1133	S32 44 52.7 E17 58 01.7	Moderate density shell scatter.	IIIC
1134	S32 44 51.8 E17 58 03.0	Ephemeral shell scatter.	IIIC/NCW
1135	S32 44 51.8 E17 58 04.3	Ephemeral shell scatter. 	IIIC
1136	S32 44 45.8 E17 58 09.5	Ephemeral shell scatter.	IIIC/NCW
1137	S32 44 38.9 E17 58 12.1	Ephemeral shell scatter.	IIIC/NCW
1138	S32 44 34.7 E17 58 13.8	Ephemeral shell scatter located to the northwest of a boulder. A silcrete flake and a potsherd were seen.	IIIC/NCW

Waypoint	Location	Description	Grade
			
1139	S32 44 35.1 E17 58 13.5	<p>Ephemeral shell, stone, bone and glass scatter in the heavily deflated lee of a boulder (southern side). Probably a mix of different aged material and surprisingly ephemeral shell given the deflation. Flaked stone artefacts in quartz, silcrete and quartz porphyry.</p> 	NCW
1140	S32 44 43.0 E17 58 12.6	Moderate density shell scatter with quartz flaked stone artefacts.	IIIC
1141	S32 44 44.5 E17 58 12.9	<p>Moderate density shell scatter with quartz flaked stone artefacts and a potsherd.</p> 	IIIC
1142	S32 44 46.6 E17 58 12.6	Ephemeral shell scatter with quartz flaked stone artefacts.	IIIC/NCW
1143	S32 45 19.0 E17 57 55.9	Ephemeral shell scatter with quartz flaked stone artefacts.	IIIC/NCW