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## Appendix 6

# The borehole and test excavation profile log descriptions

Charles French & Sean Taylor

### Ġgantija and Ramla Valley

#### Transect A: Ġgantija to In-Nuffara across Ramla valley

BH 1 (N 36° 02.812/E 014° 16.100)

0–45 dark greyish brown silty clay loam with few fine stone fragments; Ap  
45–55 dark brown silty clay loam with few charcoal fragments; B  
55+cm weathered Coralline Limestone; C

BH2 (N 36° 02.807/E 014° 16.185)

0–55 dark greyish brown silty clay loam with few fine stone fragments; Ap  
55–95 dark brown silty clay loam with few charcoal fragments; B  
95+cm weathered Coralline Limestone; C

BH3 (N 36° 02.798/E 014° 16.189)

0–35 dark greyish brown silty clay loam with few fine stone fragments; Ap  
35–45+cm weathered Coralline Limestone; C

BH4 (N 36° 02.798/E 014° 16.193)

0–35 dark greyish brown silty clay loam with few fine stone fragments; Ap  
35–45+cm weathered Coralline Limestone; C

BH5 (N 36° 02.792/E 014° 16.193)

0–35 dark greyish brown silty clay loam with few fine stone fragments; Ap  
35–40+cm weathered Coralline Limestone; C

BH6 (N 36° 02.777/E 014° 16.207)

0–40 grey silty clay; Ap  
40+cm weathered, mottled grey/orange silty clay; B/C (change to Blue Clay geology)

BH7 (N 36° 02.770/E 014° 16.210)

0–40 grey silty clay; Ap  
40+cm weathered, mottled grey/orange silty clay; B/C

BH8 (N 36° 02.764/E 014° 16.215)

0–40 grey silty clay loam; Ap  
40+cm weathered, mottled grey/orange silty clay; B/C

BH9 (N 36° 02.760/E 014° 16.216)

0–40 grey silty clay loam; Ap  
40+cm weathered, mottled grey/orange silty clay; B/C

BH10 (N 36° 02.753/E 014° 16.224)

0–40 grey silty clay loam; Ap  
40+cm weathered, mottled grey/orange silty clay; B/C

BH11 (N 36° 02.745/E 014° 14.229)

0–40 grey silty clay loam; Ap  
40+cm weathered, mottled grey/orange silty clay; B/C

BH12 (N 36° 02.734/E 014° 16.245)

0–40 grey silty clay loam; Ap  
40+cm weathered, mottled grey/orange silty clay; B/C

BH13 (N 36° 02.723/E 014° 16.245)

0–70 grey silty clay loam; Ap  
70+cm weathered, mottled grey/orange silty clay; B/C

BH14 (N 36° 02.715/E 014° 16.251)

0–50 grey silty clay loam; Ap  
50+cm weathered, mottled grey/orange silty clay; B/C

BH15 (N 36° 02.704/E 014° 16.266)

0–50 grey silty clay loam; Ap  
50+cm weathered, mottled grey/orange silty clay; B/C

BH16 (N 36° 02.693/E 014° 16.280)

0–50 grey silty clay loam; Ap  
50–70 yellowish/orangey brown gravelly silt; stream bed  
70–80 weathered, mottled grey/orange silty clay and stones (<5 cm); B/C and stream bed  
80+cm limestone pebbles and Blue Clay; C

BH17 (N 36° 02.696/E 014° 16.294)

0–70 grey silty clay loam; Ap  
70+cm weathered, mottled grey/orange silty clay; B/C (on Blue Clay geology)

BH18 (N 36° 02.677/E 014° 16.313)

0–70 grey silty clay loam; Ap  
70+cm weathered, mottled grey/orange silty clay; B/C

BH19 (N 36° 02.661/E 014° 16.332)

0–70 grey silty clay loam; Ap  
70+cm weathered, mottled grey/orange silty clay; Blue Clay B/C

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BH20 (N 36° 02.642/E 014° 16.341)  
 0–70 grey silty clay loam; Ap  
 70+cm weathered, mottled grey/orange silty clay; B/C

BH21 (N 36° 02.634/E 014° 16.339)  
 0–70 grey silty clay loam; Ap  
 70+cm weathered, mottled grey/orange silty clay; B/C

BH22 (N 36° 02.624/E 014° 16.359)  
 0–70 grey silty clay loam; Ap  
 70+cm weathered, mottled grey/orange silty clay; B/C

BH23 (N 36° 02.610/E 014° 16.360)  
 0–70 grey/orangey brown silty clay loam with occasional quartz gravel (<1 cm); Ap  
 70+cm weathered, yellowish brown silt; B/C

BH24 (N 36° 02.603/E 014° 16.383)  
 0–60 brown/yellowish/orangey brown silty clay loam with mix of limestone gravel (<1 cm); Ap  
 60+cm weathered Coralline Limestone; B/C

BH25 (N 36° 02.592/E 014° 16.374)  
 0–85 orangey brown loam; Ap  
 85+cm stone boulders (<20 cm); C

BH26 (N 36° 02.540/E 014° 16.412)  
 0–30 brown sandy loam with even mix of limestone pebbles (<1 cm); Ap  
 35+cm weathered Coralline Limestone of In-Nuffara plateau; C

Transect B: downstream along southern side of Ramla valley to the coast

BH27 (N 36° 02.769/E 014° 16.745)  
 0–35 reddish brown loam with few fragments of limestone rubble  
 35+cm grey silty clay; B/C

BH28 (N 36° 02.745/E 014° 16.726)  
 0–10 yellowish brown silt loam with mix of limestone fragments  
 10–30 grey clay  
 30+cm reddish brown sandy loam; ? made ground

BH 29 (N 36° 02.830/E 014° 16.809)  
 0–60 mix of greyish brown silty clay loam with common fine gravel (<3 cm)  
 60+cm mottled brown silty clay; B/C

BH 30 (N 36° 02.907/E 014° 16.905)  
 0–50 mix of greyish brown silty clay loam with common fine gravel (<3 cm)  
 50+cm mottled greyish brown clay; B/C

BH 600 (N 36° 02.921/E 014° 16.923)  
 0–80 very pale brown, calcareous, very fine sandy/silt loam, becoming mottled from c. 50 cm  
 80+cm weathered Globigerina Limestone

BH 601 (N 36° 02.915/E 014° 16.961)  
 0–100 yellowish brown silty clay loam and limestone rubble  
 100+cm weathered Globigerina Limestone

Transect C: from Ramla Bay up-valley

4 sets of terraces visible up-valley from sea on low Globigerina/ Upper Coralline mesa-like spines

BH31 (N 36° 03.140/E 014° 17.097; 3rd terrace)  
 0–80 pale brown very fine sandy silt loam; loessic like Ap  
 80–100 orangey/pale brown fine sandy silt loam; loessic B  
 100+cm orangey brown fine sand; ? loessic B/C

BH32 (N 36° 03.135/E 014° 17.087; 2nd terrace)  
 0–90 pale brown very fine sandy silt loam; loessic like Ap  
 90+cm orangey brown fine sand; ? loessic B/C

BH33 (N 36° 03.110/E 014° 17.083; 2nd terrace)  
 0–70 pale brown very fine sandy silty clay loam; loessic like Ap  
 70+cm grey/orange mottled sandy/silty clay; Blue Clay B/C

BH34 (N 36° 03.034/E 014° 17.165; 1st terrace)  
 0–80 pale brown very fine sandy silt loam; loessic like Ap  
 80–100 orangey/pale brown fine sandy silt; loessic B  
 100+cm orangey brown fine sand; ? loessic B/C

Transect D: from platform in front of Ġgantija temple to west

BH35 (N 36° 02.810/E 014° 16.156)  
 0–45 brown silty clay loam with common small limestone pebbles (<2 cm); Ap  
 45+cm iron-rich weathered Coralline Limestone; C

BH36 (N 36° 02.800/E 014° 16.141)  
 0–15 brown silty clay loam with common small limestone pebbles (<2 cm); Ap  
 15+cm iron-rich weathered Coralline Limestone; C

BH37 (N 36° 02.79/E 014° 16.120)  
 0+cm weathered Coralline Limestone at surface; C

BH38 (N 36° 02.807/E 014° 16.124)  
 0–25 reddish brown silty clay loam; Ap  
 15+cm iron-rich weathered Coralline Limestone; C

BH39 (N 36° 02.806/E 014° 16.100)  
 0–10 reddish brown silty clay loam; Ap  
 10+cm iron-rich weathered Coralline Limestone; C

BH40 (N 36° 02.797/E 014° 16.090)  
 0–30 reddish brown silty clay loam with limestone pebbles (<2 cm); Ap  
 30+cm iron-rich weathered Coralline Limestone; C

BH41 (N 36° 02.789/E 014° 16.155)  
 0–70 dark reddish brown silty clay loam with even mix of limestone pebbles (<2 cm); Ap  
 70+cm iron-rich weathered Coralline Limestone; C

BH59 (N 36° 02.855/E 014° 16.199)  
 0–130 greyish brown/grey mottled silty clay loam; Ap and ? imported soil/made ground  
 130–135 dark reddish brown silty clay loam; ? buried B  
 135+cm weathered Coralline limestone; C

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### Transect E: to east and northeast of Ġgantija temple, east of Tr A

BH42 (N 36° 02.830/E 014° 16.198)	
0–30	reddish brown silty clay loam with common stone rubble; Ap
30+cm	Coralline Limestone bedrock; C
BH43 (N 36° 02.837/E 014° 16.211)	
0–30	reddish brown silty clay loam with common stone rubble; Ap
30+cm	Coralline Limestone bedrock; C
BH44 (N 36° 02.869/E 014° 16.173)	
0–30	pale brown fine sandy silt loam; Ap
30–40	dark brown silt loam with few fine charcoal and pottery fragments; anthropogenic buried Ah
40+cm	Coralline Limestone bedrock; C
BH45 (N 36° 02.872/E 014° 16.179)	
0–55	pale greyish brown silt loam; Ap
55–75	reddish brown silty clay loam with fine pea-grit gravel
75+cm	weathered Coralline Limestone; C
BH46 (N 36° 02.875/E 014° 16.182)	
0–35	pale brown silt loam; Ap
35–120	pale brown to brown mixture of silt and silty clay with few fine charcoal fragments; imported soil ? (tenant farmer said soil imported in 1961 when olive grove planted) as a B mixed with anthropogenic buried soil ?
120+cm	reddish brown silty clay loam with mollusc shell fragments; buried <i>terra rossa</i> B horizon ?
BH47 (N 36° 02.880/E 014° 16.186)	
0–45	pale brown silt loam; Ap
45–120	mottled grey/orange/yellowish brown, fine sandy/silty clay loam; imported soil ?
120–140	grey/yellow very fine sand and silt; B/C
140+cm	weathered Coralline Limestone; C
BH48 (N 36° 02.886/E 014° 16.196)	
0–45	pale brown silt loam; Ap
45–110	yellowish brown fine sandy/silty clay; imported soil ? as a B
110+cm	reddish brown silty clay loam with fine limestone fragments; buried <i>terra rossa</i> B horizon ?
BH49 (N 36° 02.889/E 014° 16.207)	
0–50	pale brown silt loam; Ap
50–65	brown silty clay with limestone fragments; imported soil ?
65–120	mottled yellow/grey silt loam; imported soil ?
120–130	yellow/grey silty clay; imported soil ?
130+cm	pale yellow silt and very fine sand; B/C
BH50 (N 36° 02.895/E 014° 16.177)	
0–110	reddish brown silty clay loam with pea-grit gravel and limestone pebbles (<5 cm); imported soil ?
110+	weathered Coralline limestone; C
BH51 (N 36° 02.908/E 014° 16.174)	
0–110	reddish brown silty clay loam with pea-grit gravel and limestone pebbles (<5 cm); imported soil ?
110+	weathered Coralline Limestone; C

Samples taken: spot small bulk at 10–20 cm

BH52 (N 36° 02.913/E 014° 16.165)	
0–10	brown silty clay loam with common limestone rubble; Ap
10+ cm	weathered Coralline Limestone; C

BH53 (N 36° 02.904/E 014° 16.149)	
0–60	brown to greyish brown silty clay loam; Ap
60+cm	weathered Coralline Limestone; C

### Transect F: parallel and to east of Tr E

BH54 (N 36° 02.863/E 014° 16.184)	
0–70	greyish brown silt loam with even mix of small limestone fragments (<10 cm); Ap
70–115	dark brown silty clay loam with few pottery and charcoal fragments; anthropogenic buried Ah
115–130	brown silty clay loam with minor pottery/charcoal fragments; buried B horizon
130+cm	weathered Coralline Limestone; C

Samples taken: spot micromorphology block at c. 80–85 cm; spot small bulks at 10–20 and 70–80 cm

BH55 (N 36° 02.870/E 014° 16.195)	
0–35	greyish brown/grey mottled silt loam; Ap
35–50	dark reddish brown silty clay loam with fine pea-grit limestone
50+cm	weathered Coralline Limestone; C

BH56 (N 36° 02.876/E 014° 16.200)	
0–65	greyish brown/grey mottled silt loam; Ap
65–80	dark reddish brown silty clay loam with fine pea-grit limestone
80+cm	weathered Coralline Limestone; C

BH57 (N 36° 02.894/E 014° 16.2111)	
0–50	greyish brown/grey mottled silt loam; Ap
50–60	dark reddish brown silty clay loam with fine pea-grit limestone
60+cm	weathered Coralline Limestone; C

BH58 (N 36° 02.907/E 014° 16.204)	
0–100	greyish brown/grey mottled silt loam; Ap
100–110	dark reddish brown silty clay loam with fine pea-grit limestone
110+cm	weathered Coralline Limestone; C

### Transect G: Ramla valley

BH60 (N 36° 03.318/E 014° 16.023)	
0–150	yellowish brown very fine sand silt loam; Ap and hillwash
150+cm	bedded Coralline Limestone; C

BH61 (N 36° 03.314/E 014° 16.039)	
0–80	pale brown fine sandy silt loam with small irregular blocky structure; alluvial valley fill
80–140	grey clay and limestone blocks (<15 cm); C

BH62 (N 36° 03.313/E 014° 16.039)	
0–200	pale brown very fine sand silt loam with common very fine gravel (<1 cm) with columnar blocky structure; colluvial valley fill
200+cm	Coralline limestone bedrock; C

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BH63 (N 36° 03.397/E 014° 16.975)		<u>Transect H:</u> Ta Marziena
0–50	pale brown fine sandy/silty clay loam; Ap	
50–80	mix of pale brown fine sandy/silty clay loam and limestone pebbles; colluvial valley fill	BH67 (N 36° 02.005/E 014° 14.400; inside temple)
80–160	weathered, crumbly limestone; B/C	0–10
160+cm	Coralline Limestone bedrock; C	10+cm
		10+cm
BH64 (N 36° 03.424/E 014° 17.047)		BH68 (N 36° 01.978/E 014° 14.407)
0–175	banded, grey to pale brown, calcareous fine sandy silts; episodes of eroded soil deposition	0–50
175–190	bedded rounded pebbles, <5 cm; riverbed/outwash	0–50
190–220	bedded brown silt; episodes of eroded soil deposition	50+cm
220+cm	riverbed cobbles (<20 cm)	50+cm
		50+cm
BH65 (N 36° 03.479/E 014° 17.058)		BH69 (N 36° 01.983/E 014° 14.382)
0–50	brown sandy silty clay loam; eroded soil deposition	0–45
50–125	brown sandy silty clay with even mix of pebbles; eroded colluvial soil/bedload	0–45
125–250	partly bedded river cobbles (<20 cm) and stones (5 cm); high velocity mixture of erosion and riverbed deposits	45+cm
		45+cm
		BH70 (N 36° 01.964/E 014° 14.391)
BH 66 (N 36° 03.522/E 014° 17.031)		0–50
0–150	bedded sand and sandy silts interrupted by few lenses of pebbles; episodes of eroded soil deposition	0–50
150–250	coarse bedded cobbles in a greyish brown silt loam soil matrix interrupted by lenses of sand/silt; episodic high/low velocity erosion; contains a few pieces of included Roman pottery	50–75
250–310	grey silty clay; eroded clay substrate from up-valley	75+cm
310–350	reddish brown silt loam; eroded soil from up-valley	75+cm
350–365	fine pebbles (<10 cm)	
365+cm	bedded cobbles; riverbed	BH71 (N 36° 01.926/E 014° 14.400)
		0–50
Profile 627 (N36° 03.442/E 014° 17.045): for OSL, micromorphology and small bulk sampling		0–50
+100	modern made ground and water pipes	50–75
0–4	(= top of modern stone wall adjacent); pinkish-grey (5YR7/3) fine gravel and coarse sand; waterborne/colluvial coarse material	75+cm
4–13	pale grey (5YR7/1), calcareous silt loam; fine alluvium with drying and secondary calcification	75+cm
13–15	fine rounded pebbles (<1 cm); colluvial wash	
15–26	pale grey (5YR7/1), calcareous silt loam; fine alluvium with secondary calcification	BH72 (N 36° 01.891/E 014° 14.391)
26–28	fine rounded pebbles (<1 cm); colluvial wash	0–50
28–46	pale grey (5YR7/1), calcareous silt loam; fine alluvium with secondary calcification	0–50
46–60	pale grey (5YR7/1) calcareous silt loam; fine alluvium	50–75
90–100	greyish brown (10YR5/2) silt loam with abundant horizontally bedded fine to medium pebbles (<5 cm); mixed soil/limestone rubble erosion as possible small alluvial outwash fans	75+cm
100–140	greyish brown (10YR5/2) fine and silt; becoming more a loamy sand with depth; fine alluvium	75+cm
140+cm	Globigerina Limestone; bedrock	
<u>Samples taken:</u> Micromorphology blocks and small bulk samples at 4–14, 75–85 and 103–110 cm; OSL profiling samples at 7.5, 15, 27.5, 45, 60, 75, 82.5, 105, 115, 125 and 140 cm; OSL dating tubes at 15–20, 62–66 and 103–106 cm		BH73 (N 36° 01.827/E 014° 14.391)
		0–80
		80–90
		80–90
		90–120
		90–120
		120+cm
		120+cm
		BH74 (N 36° 01.792/E 014° 14.331)
		0–50
		50–80
		50–80
		80+cm
		80+cm
		BH75 (N 36° 01.744/E 014° 14.299)
		0–50
		0–50
		50+cm
		50+cm
		BH 602 (N 36° 01.987/E 014° 14.387)
		0–50
		0–50
		50+cm
		50+cm
		BH 603 (N 36° 01.979/E 014° 14.380)
		0–40
		0–40
		40+cm
		40+cm

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BH 604 (N 36° 01.972/E 014° 14.382)		<u>Transect J:</u> from southern end of In-Nuffara downslope to east	
0–30	greyish brown silty clay loam		
30–100	mottled greyish/yellowish brown silty clay with calcium carbonate aggregates	BH87 (N 36° 02.401/E 014° 16.430)	
100+cm	grey clay B/C	0–5	pale brown fine sandy silt loam; Ah
		5+cm	Coralline Limestone bedrock; C
BH 605 (N 36° 01.969/E 014° 14.385)		BH88 (N 36° 02.410/E 014° 16.446)	
0–30	yellowish brown silty clay loam	0–50	greyish yellow silt loam; Ap
30–100	mottled greyish/yellowish brown silty clay with calcium carbonate aggregates	50+cm	Coralline Limestone bedrock; C
100+cm	grey clay B/C		
<u>Transect I:</u> southwest side of Ramla valley, starting between Tal Hamrija and It Tafilija)		BH89 (N 36° 02.406/E 014° 16.523)	
		0–60	greyish yellow silt loam; Ap
BH76 (N 36° 03.428/E 014° 16.532)		60+cm	Coralline Limestone bedrock; C
0–45	yellowish brown fine to coarse sandy silt loam; Ap	BH90 (N 36° 02.406/E 014° 16.523)	
45–60	yellow sand/silt; B	0–60	greyish yellow silt loam; Ap
60+cm	weathered Coralline Limestone; C	60+cm	Coralline Limestone bedrock; C
BH77 (N 36° 03.425/E 014° 16.545)		BH91 (N 36° 02.395/E 014° 15.545)	
0–50	aggregated pale yellowish brown silty clay loam with few limestone pebbles; Ap	0–60	grey silty clay loam; Ap
50+cm	grey/yellowish brown silty clay with limestone fragments; B/C	60+cm	Coralline Limestone bedrock; C
BH78 (N 36° 03.425/E 014° 16.557)		BH92 (N 36° 02.389/E 014° 16.590)	
0–60	yellowish brown to pale reddish brown coarse-fine sandy/silt loam with few limestone pebbles; Ap	0–60	grey silty clay loam; Ap
60–70	orangey brown silty clay loam	60+cm	Coralline Limestone bedrock; C
70+cm	grey/yellow silt; B/C	<u>Samples taken:</u> spot small bulk sample at 10–20 cm	
BH79 (N 36° 03.429/E 014° 16.567)		BH93 (N 36° 02.377/E 014° 16.646)	
0–35	grey silty clay loam; Ap	0–50	yellowish brown to grey silt loam; Ap
35–60+cm	pale grey/yellow silt with orange mottles; B/C	50+cm	Coralline Limestone bedrock; C
BH80 (N 36° 03.430/E 014° 16.570)		BH94 (N 36° 02.392/E 014° 16.646)	
0–35	greyish brown silty clay loam; Ap	0–60	greyish brown fine sandy/silt loam with even mix of limestone pebbles; Ap
35–70+cm	pale grey/yellow silt with orange mottles; B/C	60+cm	Globigerina Limestone bedrock; C
BH81 (N 36° 03.430/E 014° 16.570)		BH95 (N 36° 02.358/E 014° 16.659)	
0–30	greyish brown silty clay loam; Ap	0–60	greyish brown fine sandy/silt loam with even mix of limestone pebbles; Ap
30+cm	Coralline Limestone pebbles; C	60+cm	Globigerina Limestone bedrock; C
BH82 (N 36° 03.419/E 014° 16.620)		<u>Transect M:</u> from Tar-Rumiena round-about southwards to Xewkija	
0–50	grey silty clay loam; Ap		
50+cm	grey silty clay; B/C	BH104 (N 36° 02.860/E 014° 16.200)	
BH83 (N 36° 03.487/E 014° 16.694)		0–50	pal brown fine sandy silt loam; Ap
0–60	pale brown silt loam; Ap	50–110+cm	pale yellowish/greyish brown silt loam; gleyed B/C
60+cm	grey silty clay; B/C	BH105 (N 36° 02.287/E 014° 15.864)	
BH84 (N 36° 03.479/E 014° 16.761)		0–50	pal brown fine sandy silt loam; Ap
0–50	greyish brown silty clay loam; Ap	50–90+cm	pale yellowish/greyish brown silt loam with small weathered limestone fragments (<1 cm); gleyed B/C
50+cm	grey silty clay; B/C		
BH85 (N 36° 03.473/E 014° 16.797)		BH106 (N 36° 02.266/E 014° 15.052)	
0–30	greyish brown silty clay loam with few limestone pebbles	0–50	pal brown fine sandy silt loam; Ap
30+cm	Coralline Limestone pebbles; C	50–70+cm	yellowish/greyish brown fine sandy silt loam with small weathered limestone fragments (<1 cm); gleyed B/C
BH86 (N 36° 03.487/E 014° 16.890)		BH107 (N 36° 02.235/E 014° 15.854)	
0–50	pale greyish brown fine sandy clay loam; Ap	0–40	brown fine sandy silt loam; Ap
50+cm	laminar pale grey Globigerina Limestone; C	40+cm	weathered Coralline Limestone bedrock; C
		BH108 (N 36° 02.222/E 014° 15.846)	
		0–50	orangey brown fine sandy silt loam; Ap
		50+cm	weathered Coralline limestone bedrock; C

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BH109 (N 36° 02.214/E 014° 15.839)	BH127 (N 36° 02.815/E 014° 16.135)
0–20 orangey brown fine sandy silt loam; Ap	0–20 brown to reddish brown silt loam with even mix of limestone; Ap
20+cm weathered Coralline Limestone bedrock; C	20–30 reddish brown silt with abundant limestone fragments; remnant of buried B ?
<u>Transect K</u> : from north end of In-Nuffara to east-north-east	30+cm limestone, not necessarily bedrock
BH96 (N 36° 02.350/E 014° 16.658)	<u>Transect P (2015)</u> : southeast side of Ramla valley across abandoned terraces
0–30 grey silt loam with fine limestone pebbles (<5 cm); Ap	BH500 (grid)
30–60 grey/orange mottled silt; B	0–10 grey silty clay loam; Ap
60+cm Coralline Limestone bedrock; C	10–70 grey with orange mottles silty clay loam; B
BH97 (N 36° 02.559/E 014° 16.496)	70–100 yellowish grey silty clay with common limestone fragments
0–30 grey silty clay loam with fine limestone pebbles (<5 cm); Ap	100+cm grey silt; B/C
30–60 grey/orange mottled silt; B	BH501 (grid)
60+cm Coralline Limestone bedrock; C	0–10 grey silty clay loam; Ap
BH98 (N 36° 02.562/E 014° 16.496)	10–65 grey silty clay loam; B
0–30 grey silty clay loam with fine limestone pebbles (<5 cm); Ap	65–100 grey silty clay with few limestone fragments and some orange mottles; gleyed B
30–60 grey/orange mottled silt; B	100–150 grey silty clay with few limestone fragments; gleyed B
60+cm Coralline Limestone bedrock; C	150–200 grey silt, limestone fragments and calcium carbonate mottles; Bgk
BH99 (N 36° 02.545/E 014° 16.510)	200–230 yellowish grey silty clay with calcium carbonate mottles; Bgk2
0–20 grey silty clay loam with fine limestone pebbles (<5 cm); Ap	230+cm grey silt; B/C
20+cm grey/yellow silty clay; B/C	<u>Samples taken</u> : Small bulk samples at 0–10, 50–60, 90–100, 160–170 and 230–240 cm
BH100 (N 36° 02.550/E 014° 16.526)	BH502 (grid)
0–80 grey silty clay loam with fine limestone pebbles (<5 cm); Ap	0–10 grey silty clay loam; Ap
80+cm grey/yellow silt; B/C	10–40 grey silty clay with calcium carbonate mottling; Bgk1
BH101 (N 36° 02.554/E 014° 16.598)	40–90 grey silty clay; Bg1
0–30 grey silt loam with fine limestone pebbles (<5 cm); Ap	90–127 grey silty clay with calcium carbonate mottling; Bgk2
30+cm grey/orange silty clay; B/C	127–140 grey silty clay loam; Bg2
BH102 (N 36° 02.521/E 014° 16.619)	140–150+cm grey/greyish brown clay; C of Blue Clay
0–70 grey silty clay loam with fine limestone pebbles (<5 cm); Ap	BH503 (grid)
70+cm grey/yellow silty clay; B/C	0–10 grey silty clay loam; Ap
<u>Transect N</u> : in small walled field between TP1 and west side of Ggantija temple platform	10–40 grey silty clay; B
BH124 (N 36° 02.813/E 014° 16.141)	40–95 grey/orange mottled silty clay; Bg
0–60 brown to reddish brown silt loam with even mix of limestone; Ap on terrace	95–134 grey silty clay with calcium carbonate mottling; Bgk
60+cm limestone, not necessarily bedrock	134+cm grey silty clay; C of Blue Clay
BH125 (N 36° 02.817/E 014° 16.137)	BH504 (grid)
0–70 brown to reddish brown silt loam with even mix of limestone; Ap on terrace	0–10 grey silty clay loam; Ap
70+cm limestone, not necessarily bedrock	10–30 greyish brown silty clay; B
BH126 (N 36° 02.814/E 014° 16.139)	30–65 greyish brown silty clay with few stone fragments (<1 cm); Bg with colluvial input
0–70 brown to reddish brown silt loam with even mix of limestone; Ap on terrace	65–170 greyish brown silt clay; Bg
70–80 reddish brown silt with abundant limestone fragments; remnant of buried B ?	170–200 grey silty clay with calcium carbonate mottling; Bgk
70+cm limestone, not necessarily bedrock	200+cm greyish blue silty clay; C of Blue Clay
	BH505 (grid)
	0–10 grey silty clay loam; Ap
	10–50 greyish brown silty clay with few stone fragments (<1 cm); B with colluvial input
	50–220 greyish brown silty clay; Bg
	220–285 greyish brown silty clay with orange mottles and abundant calcium carbonate nodules and gypsum concretions; Bgk
	285–310 grey/yellowish brown silty clay; B/C
	310+cm grey silty clay; C of Blue Clay

## The borehole and test excavation profile log descriptions

<b>BH506 (grid)</b>		<b>BH514 (grid)</b>	
0–10	grey silty clay loam; Ap	0–30	pale greyish brown silty clay loam; Ap
10–160	greyish brown silty clay; Bg	30–90	greyish brown silty clay loam with few limestone pebbles (<2 cm); Bw
160–300+cm	greyish brown silty clay with orange mottles and abundant calcium carbonate nodules; Bgk	90–130	greyish brown silty clay loam; Bg
		130–190	greyish brown silty clay loam with calcium carbonate nodules and gypsum concretions; Bg
		190+cm	greyish blue silty clay; C of Blue Clay
<b>BH507 (grid)</b>		<b>BH515 (grid)</b>	
0–10	grey silty clay loam; Ap	0–30	pale greyish brown silty clay loam; Ap
10–150	pale greyish brown with orange mottles silty clay and occasional limestone pebbles (<1 cm); Bg	30–45	yellowish brown silty loam with few limestone pebbles (<2 cm); Bg1
150–215	greyish brown silty clay with orange mottles and abundant calcium carbonate nodules; Bgk	45–120	pale greyish brown silt; Bg
215+cm	grey silty clay; C of Blue Clay	120–130	pale greyish brown silt with weathered limestone fragments; colluvial input
		130–220	greyish brown silty loam with occasional weathered limestone fragments; Bg with colluvial input
		220–260	grey/yellow/blue silt with Globigerina fragments; B/C
		260+cm	Globigerina Limestone bedrock; C
<b>BH508 (grid)</b>		<b>Mgarr ix-Xini</b>	
0–10	grey silty clay loam; Ap	<b>BH 606 (N 36° 01.259/E 014° 16.133)</b>	
10–300	pale greyish brown with orange mottles silty clay and occasional limestone pebbles (<1 cm); with more very fine sand and silt with depth; Bg	0+cm	beach pebbles
300+cm	grey fine sandy/silty clay with weathered limestone; B/C		
		<b>BH 607 (N 36° 01.303/E 014° 16.097)</b>	
		0–60	reddish brown sandy loam with fine limestone pebbles
		60–100+cm	limestone pebbles
		<b>BH 608 (N 36° 01.536/E 014° 15.737)</b>	
		0–50	greyish brown silt loam
		50–128	pale greyish/yellowish brown silty clay loam
		128–180	pale greyish white calcareous silt with 25% coarse-fine gravel content
		180+cm	limestone gravel
<b>BH509 (grid)</b>		<b>Transect S: Xaghra to Rabat</b>	
0–10	grey silty clay loam; Ap	<b>BH 609 (N 36° 02.718/E 014° 15.330)</b>	
10–230	pale greyish brown fine sandy silty clay with occasional limestone pebbles; Bg	0–30	yellowish brown fine sandy/silt loam with limestone pebbles
230+cm	bluish green silty clay; C of Blue Clay	30–60	greyish brown fine sandy/silty clay loam with fine limestone pebbles nodules
		60–110	greenish-grey silt loam with limestone pebbles and iron nodules
		110+cm	pale greyish/reddish brown silty clay; B/C
<b>Transect R: northwest side of Ramla valley across terraces</b>		<b>BH 610 (N 36° 02.684/E 014° 15.296)</b>	
		0–40	yellowish brown fine sandy/silt loam
		40+cm	greyish brown fine sandy/silty clay loam with fine limestone pebbles and calcium carbonate nodules
		<b>BH 611 (N 36° 02.638/E 014° 15.257)</b>	
		0–55	greyish brown silty clay loam
		55+cm	Globigerina limestone
		<b>BH 612 (N 36° 02.615/E 014° 15.205)</b>	
		0–55	greyish brown silty clay loam
		55+cm	Globigerina Limestone
<b>BH510 (grid)</b>			
0–30	pale greyish brown silt loam; Ap		
30–160	pale greyish/yellowish brown mottled silt loam; Bg		
160–195	pale greyish/yellowish brown mottled silt loam with calcium carbonate nodules; Bgk		
195+cm	bluish grey silty clay; C of Blue Clay		
<b>BH511 (grid)</b>			
0–35	pale greyish brown silt loam; Ap		
30–115	yellowish brown silty clay with few limestone pebbles (<2 cm); Bw		
115–210	pale grey silty clay with calcium carbonate nodules and gypsum concretions; Bgk		
210+cm	grey/orangey brown mottled silty clay; C of Blue Clay		
<b>BH512 (grid)</b>			
0–42	pale greyish brown silty clay loam; Ap		
42–115	yellowish brown silt loam with few gravel pebbles (<2 cm); Bg1		
115–132	greyish brown fine sandy silt loam with minor clay; Bg2		
132+cm	grey/orangey brown mottled silty clay; C of Blue Clay		
<b>BH513 (grid)</b>			
0–35	pale greyish brown silty clay loam; Ap		
35–98	yellowish brown silt loam with few limestone pebbles (<2 cm); Bg1		
98–100	lens of brown fine sandy silt loam; hillwash episode		
100–118	greyish brown fine sandy silt loam with minor clay with calcium carbonate nodules and gypsum concretions; Bg2		
210+cm	grey/yellowish brown mottled silty clay; C of Blue Clay		

## Appendix 6

BH 613 (N 36° 02.615/E 014° 15.205)  
0–55 greyish brown silty clay loam  
55+cm Globigerina Limestone

BH 614 (N 36° 02.571/E 014° 15.152)  
0–50 pale greyish brown fine sandy clay loam  
50–90 greyish brown fine sandy clay loam with fine Globigerina pebbles  
90–120 yellow fine sandy/silty/clay weathered bedrock; B/C  
120+cm Globigerina Limestone rubble and pale greyish brown silt loam; B/C

BH 615 (N 36° 02.554/E 014° 15.121)  
0–70 greyish brown fine sandy/silt loam  
70–120 pale yellowish brown sandy/silt loam with 5% calcium carbonate aggregates; hillwash  
120–150+cm yellowish brown fine sandy/silt with fine limestone mix; weathered B/C

### Dweija Valley

BH 616 (N 36° 02.572/E 014° 11.526)  
0–100 pale greyish white calcitic silt with fine limestone pebbles  
100–120 stone terrace wall  
120–220 pale greyish white calcitic silt with large limestone fragments  
220–250 brown calcitic loam with large irregular blocky structure; buried soil  
250+cm Globigerina Limestone bedrock; C

Samples taken: spot micromorphology and small bulk sample from 225–235 cm

BH 617 (N 36° 02.549/E 014° 11.793)  
0–80 pale greyish brown calcitic silt loam; terrace make-up  
80+cm weathered Globigerina Limestone bedrock; C

### Transect T: Skorba environs

BH 618 (N 35° 55.254/E 014° 22.606)  
0–55 mid-brown fine sandy/silt loam with common fine gravel size limestone pebbles  
55+cm Coralline Limestone bedrock; C

BH 619 (N 35° 55.239/E 014° 22.629)  
0–60 brown silty clay loam with common fine gravel size limestone pebbles  
60+cm Coralline Limestone bedrock; C

BH 620 (N 35° 55.233/E 014° 22.660)  
0–50 brown silty clay loam with common fine gravel size limestone pebbles  
50+cm Coralline Limestone bedrock; C

Samples taken: small bulks from 0–10, 35–40 and 40–50 cm

BH 621 (N 35° 55.220/E 014° 22.695)  
0–55 brown fine sandy/silty clay loam with common fine gravel size limestone pebbles  
55+cm Coralline limestone bedrock; C

BH 622 (N 35° 55.220/E 014° 22.670)  
0–40 brown fine sandy/silty clay loam with common fine gravel size limestone pebbles  
40+cm Coralline Limestone bedrock; C

BH 623 (N 35° 55.203/E 014° 22.671)  
0–45 dark brown silty clay loam with common fine gravel size limestone pebbles  
45+cm Coralline Limestone bedrock; C

BH 624 (N 35° 55.187/E 014° 22.677)  
0–48 dark brown silty clay loam with common fine gravel size limestone pebbles  
48+cm Coralline Limestone bedrock; C

BH 625 (N 35° 55.172/E 014° 22.660)  
0–40 dark brown silty clay loam with common fine gravel size limestone pebbles  
40+cm Coralline limestone bedrock; C

### Ġgantija Test Pits

Test Pit 1 (2014 and 2015): composite section

Southwest facing section

0–152 Modern stone retaining wall of the visitor's platform; contains two vertical megaliths, one of c. 100 cm and the other of c. 142 cm in height

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Northeast facing section (N 36° 02.818/E 014° 16.149)

Modern ground surface outside platform

0–80 greyish brown silt loam with common limestone fragments (<5 cm); Ap and terrace soil  
80–90 brown silt loam with abundant Neolithic artefacts (pot, bone, lithics); *in situ* Ah of palaeosol  
90–120 mid-brown silt loam with abundant Neolithic artefacts (pot, bone, lithics); buried lower A  
120–130 reddish brown fine sandy silt loam; buried Bw  
130+cm undulating Upper Coralline Limestone bedrock; C  
Samples taken: Micromorphology blocks at 40–47, 50–60, 60–77, 87–100, 100–111 and 111–125 cm; small bulk samples at 10–20, 70–80, 80–90, 90–100, 100–110, 110–120 and 120–130 cm; pollen spots at 5 cm intervals from 80–130 cm; 2 large bulk samples for wet sieving/macro-botanical remains at 40–70 and 90–120 cm

Test Pits for moving palm trees on east side of platform (2014):

Test Pit 2 (N 36° 02.818/E 014° 16.149)

0–70 grey silty clay loam with even mix of limestone fragments; Ap; imported soil from 1982  
70–130 pale grey/yellowish brown silty clay with even mix of limestone fragments; imported soil from 1961; anthropogenic B  
130–137 dark grey silty clay loam; buried Ah  
137–142 pale grey silt; ? introduced/truncation zone?  
142–148 reddish brown fine sandy silt loam; buried B  
148+cm Coralline Limestone bedrock; C

Samples taken: Spot small bulk sample at 142–148 cm

Test Pit 3 (N 36° 02.873/E 014° 16.188)

0–50 grey silty clay loam with even mix of limestone fragments; Ap; imported soil from 1982  
50–105 pale grey/yellowish brown silty clay with even mix of limestone fragments; imported soil from 1961; anthropogenic B  
105–112 limestone rubble  
112–135 reddish brown fine sandy silt loam  
135+cm Coralline Limestone bedrock; C

Samples taken: Spot small bulk sample at 120–130 cm



## The borehole and test excavation profile log descriptions

### Test Pit 4 (N 36° 02.854/E 014° 16.201)

0–50	grey silty clay loam with even mix of limestone fragments; Ap; imported soil from 1982
50–150	pale grey/yellowish brown silty clay with even mix of limestone fragments; imported soil from 1961; anthropogenic B
150–160	reddish brown fine sandy silt loam; buried upper B
160–180	brown sandy silt loam with fine limestone pebbles; buried lower B-B/C
180+cm	Coralline Limestone bedrock; C

Samples taken: Spot small bulk samples at 150–160 and 165–175 cm

### Test Pit 5 (N 36° 02.861/E 014° 16.201)

0–54	grey silty clay loam with even mix of limestone fragments; Ap; imported soil from 1982
54–75	pale grey silty clay with even mix of limestone fragments; imported soil from 1961; anthropogenic B
75–98	reddish brown fine sandy silt loam; buried upper B
98+cm	Coralline limestone bedrock; C

Samples taken: Spot micromorphology block sample at 78–88 cm; spot small bulk sample at 80–90 cm

### Ġgantija WC Trench (2015)

#### South section 2015:

c. 0–110	greyish brown silt loam and limestone rubble; made ground for 1970s toilet block
April excavations starting surface	
0–35/40	large limestone blocks
35/40–60	dark brown silt loam with abundant pottery and bone, and the occasional fragment of calcitic plaster; 10YR4/3; context 1015; midden and soil accumulation
60–80	dark brown silt loam with abundant pottery and bone, and the occasional fragment of fired clay; 10YR5/2; context 1016; midden and soil accumulation
80–83	discontinuous lens of black humic and very fine charcoal 'soot'; context 1040; hearth dumped material
80–82	discontinuous, slightly undulating lens of pale yellowish brown pea-grit gravel; context 1041; ground surface
82/83–90	greyish brown silt loam with abundant pottery and bone; 10YR4/2; context 1004; buried Ah of palaeosol with abundant anthropogenic inclusions
90–105/125	reddish brown silty clay loam with common pottery and bone; 5YR3/3; context 1019; buried B of palaeosol with common anthropogenic inclusions
110/125+cm	weathered Upper Coralline Limestone bedrock; C; rising in height northwards

Samples taken: Micromorphology blocks at c. 60, 68–86, 84–94 and c. 78–83 cm, and a further four samples taken continuously through the buried soil from the same sequence (as at c. 85–105 cm), but at c. 50 cm in/to north of section described above; and a further two spot micromorphology blocks from contexts 1015 and 1016; 13 small bulk samples taken to match each of these micromorphology samples

### Xaghra town/plateau construction site profiles

#### House construction site 1 (N 36° 03.058/E 014° 16.601):

Profile 1: back wall	
0–20	stone rubble wall
20–60	reddish brown silty clay loam; buried B of <i>terra rossa</i> palaeosol
60+cm	fissured Upper Coralline limestone bedrock; C

#### Profile 2: near front gate

0–15	brown silt loam with tree rooting; modern topsoil
15–25	red silt loam; redeposited soil ?
25–80	pale reddish brown calcareous silt loam with common limestone pebbles; terrace soil
80–85	pockets of reddish brown silt loam; buried Bw of palaeosol
85+cm	undulating Upper Coralline limestone bedrock; C

#### House construction site 2 (N 36° 03.004/E 014° 16.549):

0–15	modern concrete yard surface
15–35	pockets of reddish brown silt loam; buried Bw of palaeosol
35+cm	undulating Upper Coralline limestone bedrock; C

Samples taken: Micromorphology blocks at 15–25 and 25–35 cm; small bulk samples at 15–25 and 25–35 cm

#### House construction site 3 (N 36° 03.536/E 014° 16.221):

0–50/80	dark brown silt loam with even mix of limestone fragments (<3 cm)
50/80–100/160	red silt loam; buried Bw of palaeosol
100/160+cm	undulating Upper Coralline limestone bedrock; C

Samples taken: Micromorphology blocks at 50–60 and 60–70 cm; small bulk samples at 50–60 and 60–70 cm

### Ta Marziena temple site and environs

#### Transect H:

BH67 (N 36° 02.005/E 014° 14.400; inside temple)	
0–10	brown silt loam with occasional fine limestone pebbles (<5 mm); Ah
10+cm	Coralline Limestone bedrock; C
BH68 (N 36° 01.978/E 014° 14.407)	
0–50	grey silty clay loam with common calcium carbonate aggregates and few limestone fragments (<1 cm)
50+cm	grey/yellowish grey mottled clay loam; B/C
BH69 (N 36° 01.983/E 014° 14.382)	
0–45	brown fine sandy silt loam with few fine limestone pebbles (<5 mm); Ap
45+cm	Coralline Limestone bedrock; C
BH70 (N 36° 01.964/E 014° 14.391)	
0–50	brown fine sandy silt loam with few fine limestone pebbles (<5 mm); Ap
50–75	pale grey/yellowish grey silty clay loam; B
75+cm	grey/yellowish grey mottled clay loam; B/C

## Appendix 6

BH71 (N 36° 01.926/E 014° 14.400)  
 0–50 brown fine sandy silt loam with few fine limestone pebbles (<5 mm); Ap  
 50–75 pale grey/yellowish grey silty clay loam; B  
 75+cm grey/yellowish grey mottled clay loam; B/C

BH72 (N 36° 01.891/E 014° 14.391)  
 0–50 brown fine sandy silt loam with few fine limestone pebbles (<5 mm); Ap  
 50–75 pale grey/yellowish grey silty clay loam; B  
 75+cm grey/yellowish grey mottled clay loam; B/C

BH73 (N 36° 01.827/E 014° 14.391)  
 0–80 brown silty clay loam with common fine limestone pebbles (<5 mm); Ap  
 80–90 pale reddish/yellowish brown silty clay loam with common fine limestone fragments (<5 mm); buried B of palaeosol  
 90–120 dark reddish brown silty clay loam with common fine limestone fragments (<5 mm); probably buried clay-enriched Bt of palaeosol  
 120+cm weathered Coralline Limestone bedrock; C

BH74 (N 36° 01.792/E 014° 14.331)  
 0–50 reddish brown silty clay loam with common fine limestone pebbles (<5 mm); Ap  
 50–80 pale reddish brown silty clay loam with common fine limestone pebbles and fragments (<5 cm); B  
 80+cm weathered Coralline Limestone bedrock; C

BH75 (N 36° 01.744/E 014° 14.299)  
 0–50 pale reddish brown silt loam with common fine limestone pebbles (<2 cm); Ap  
 50+cm weathered Coralline Limestone bedrock; C

### Ortine land-fill site

Area of possible prehistoric, small rectilinear stone demarcated fields, mainly of bedrock at or near surface; very denuded

### Marsalforn Valley

BH110 (N 36° 03.485/E 014° 14.946)  
 0–150 pale yellowish grey silty clay loam; hillwash  
 150–180 pale yellowish brown silty clay loam with columnar blocky ped structure; buried old land surface in colluvium  
 180–220 rounded stone pebbles (<5 cm); stream bed  
 220–340 greyish brown fine-medium sand and silt  
 340–350 rounded stone pebbles (<10 cm); stream bed  
 350+cm modern road surface, with Globigerina Limestone bedrock beneath

Profile 626 (N 36° 03.485/E 014° 14.946): OSL, micromorphology and small bulk sampling profile  
 0–10 turf/topsoil; modern ploughsoil and land surface  
 10–175 pale yellowish grey silty clay loam with weakly developed blocky ped structure; hillwash  
 175–210 pale yellowish brown silty clay loam with well developed columnar blocky ped structure; incipient soil in stabilized hillwash  
 210–270 rounded stone pebbles (<5 cm) in grey silty clay loam; hillwash  
 270–310 very pale brown (10YR7/4) very fine sandy/silt loam with even mix of fine limestone pebbles (<2 cm); mix of colluvial soil and pebbles  
 310–370 grey (10YR5/1) silty clay loam with <10% fine to coarse stone pebbles (<10 cm); coarser mix of colluvial soil and pebbles  
 370–400 grey clay; weathered B/C  
 400+cm Globigerina Limestone; bedrock  
Samples taken: Micromorphology blocks and small bulks at 175–185, 200–210 and 275–285 cm; OSL profiling samples at 180, 195, 205, 215, 225, 270, 290, 300, 310 and 320 cm; OSL dating tubes at 175–180, 265–270 and 320–325 cm

### Ta' Kulijat

Messa plateau above Marsalforn valley:  
 0–25/35 brown coarse sandy loam; Ap  
 25/35+cm weathered Coralline Limestone bedrock; C; sometimes exposed at surface

### Ghajn Abdul and Wied il-Kibr valley, northwest of Xlendi

Terraces on limestone ridges:  
 0–25/35 brown coarse fine sandy silt loam; Ap, with common prehistoric pottery  
 25/35+cm weathered Coralline Limestone bedrock; C; sometimes exposed at surface

Sample taken: spot small bulk sample at 0–10 cm

### Santa Verna and environs

#### Transect L:

BH111 (N 36° 02.743/E 014° 15.520)  
 0–20 pale brown fine sandy silt loam; Ap  
 20+cm Coralline Limestone bedrock; C  
 BH112 (N 36° 02.755/E 014° 15.527)  
 0–45 brown to reddish brown fine sandy silt loam with few fine limestone fragments (<2 cm) and rare pottery fragments; Ap  
 45+cm weathered Coralline Limestone bedrock; C  
 BH113 (N 36° 02.762/E 014° 15.530)  
 0–60 brown to reddish brown fine sandy silt loam with few fine limestone fragments; Ap  
 60–65 reddish brown silt loam with few fine limestone fragments (<1 cm); B  
 65+cm weathered Coralline Limestone bedrock; C

## The borehole and test excavation profile log descriptions

BH114 (N 36° 02.775/E 014° 15.544)  
0–60 brown fine sandy silt loam with few fine limestone fragments; Ap

60+cm weathered Coralline Limestone bedrock; C  
Sample taken: spot small bulk sample at 0–10 cm

BH115 (N 36° 02.784/E 014° 15.565)  
0–30 dark brown fine sandy silt loam with few fine limestone fragments; Ap  
30–50 reddish brown fine sandy clay loam with few fine limestone fragments; B  
50+cm weathered Coralline Limestone bedrock; C  
Samples taken: Spot micromorphology blocks at 20–30 and 30–40 cm

BH116 (N 36° 02.789/E 014° 15.587)  
0–60 brown silt loam with few fine limestone fragments; Ap  
60+cm weathered Coralline Limestone bedrock; C

BH117 (N 36° 02.797/E 014° 15.591)  
0–50 brown silt loam; Ap  
50–90 brown with orange mottles silt loam with few fine limestone fragments; B  
90+cm weathered Coralline Limestone bedrock; C

BH118 (N 36° 02.807/E 014° 15.614)  
0–30 brown silt loam; Ap  
30–40 orangey brown silty clay loam; B  
40+cm weathered Coralline Limestone bedrock; C

BH119 (N 36° 02.845/E 014° 15.634)  
0–25 brown silty clay loam with few fine limestone fragments (<2 cm); Ap  
25–35 orangey brown silty clay loam with few fine limestone fragments; B  
35+cm weathered Coralline Limestone bedrock; C

BH120 (N 36° 02.838/E 014° 15.650)  
0–45 reddish brown silty clay loam; Ap  
45–80 yellowish brown coarse sandy loam with few fine limestone fragments; B  
80+cm weathered Coralline Limestone bedrock; C

BH121 (N 36° 02.717/E 014° 15.566)  
0–10 grey silt loam; Ap  
10+cm weathered Coralline Limestone bedrock; C

BH122 (N 36° 02.743/E 014° 15.499)  
0–45 brown silty clay loam with abundant limestone pebbles (<2 cm); Ap  
45+cm weathered Coralline Limestone bedrock; C

BH123 (N 36° 02.743/E 014° 15.499)  
0–20 grey silt loam with common limestone pebbles (<2 cm); Ap  
20+cm weathered Coralline Limestone bedrock; C  
Note: remainder of plateau to northwest is very denuded with limestone bedrock near or at the surface

### Santa Verna Excavations (2015)

#### Off-site trench, Profile SV15/1:

0–40 greyish brown fine sandy silt loam with few fine gravel pebbles (<1 cm); Ap  
40–58 brown silt loam; buried Ah of palaeosol  
58–90 reddish brown silt loam; buried Bw of *terra rossa* palaeosol

90+cm weathered Upper Coralline Limestone bedrock; C  
Samples taken: Micromorphology blocks at 42–52, 53–66, 66–73 and 74–88 cm; small bulk samples at 10–20, 50–58, 60–70, 80–90 and 90–95 cm

#### Profile SV15/2: Ashby sondage

0–20 modern topsoil and limestone rubble  
20–22 compacted brown silt; torba floor  
22–65 limestone rubble  
65–70 compacted brown silt; torba floor  
70–80 limestone rubble  
80–95 brown silt loam; buried Ah of palaeosol  
95–115 reddish brown silt loam; buried Bw1 of *terra rossa* palaeosol  
115–125 dark reddish brown silt loam; buried Bw2 of *terra rossa* palaeosol

125+cm weathered Upper Coralline Limestone bedrock; C  
Samples taken: Micromorphology blocks at 95–105, 105–115 and 115–125 cm; micromorphology spot samples of torba floor contexts 28 and 78; small bulks at 95–105, 105–115 and 115–125 cm

#### Profile SV15/3: Trump Sondage, Cut 55 (contexts 28/29/30/51):

0–10 greyish brown silt loam; Ah topsoil  
10–100 limestone rubble  
100–120 dark brown silt loam; buried Ah of palaeosol; (note: adjacent feature cut defines from c. 110 cm down-profile)

120–165 reddish brown silt loam; buried Bw of palaeosol  
165+cm weathered Upper Coralline Limestone bedrock; C  
Samples taken: Micromorphology blocks at 100–120 and 120–140 cm from buried soil, and 110–130 and 130–160 cm from feature fill; small bulk samples at 100–110 and 130–140 cm, from buried soil, and 110–120 and 140–150 cm from feature fill

#### Profile SV15/4: Trench E, A section:

0–10 greyish brown silt loam; Ah topsoil  
10–40 limestone rubble  
40–43 compacted brown silt; torba floor  
43–71 limestone rubble  
71–75 compacted brown silt; torba floor  
75–83 limestone rubble  
83–100/105 dark brown silt loam; buried Ah of palaeosol  
100/105+cm weathered Upper Coralline Limestone bedrock; C  
Samples taken: Micromorphology blocks at 40–44, 68–75, 83–93 and c. 65–70 cm; small bulks at 40–43, 66–74, 83–93 and c. 65–70 cm

**Tač-Ćawla (TCC/14) Neolithic settlement site excavations (2014)**

Section 1:

- 0–50 made ground and Horton 1985 excavation trench backfill
- 50–54 brown silt loam; remnant of post-site B horizon ?
- 54–57 compacted brown silt with fine charcoal; possible floor surface
- 57–63 brown silt loam; soil aggradation ?
- 63–72 compacted mixture of brown silt, fine charcoal and pale grey calcitic ash; possible floor surface accumulation
- 72–74 reddish brown silt loam; possible upper surface of buried Bw of palaeosol

Samples taken: Micromorphology blocks at 50–59 and 59–73 cm; small bulk samples at 54–57, 57–63, 63–72 and 72–74 cm

Section 2:

Excavated surface

- 0–28 greyish brown fine sandy silt loam; trench backfill or old terrace soil
- 28–29 lens of fine charcoal and humic matter; anthropogenic accumulation
- 29–32 laminar pale grey silt or calcitic ash with fine limestone fragments (<1 cm); possible floor deposits
- 32–41 greyish brown fine sandy silt loam; soil aggradation
- 41+cm excavation surface of Horton 1985

Samples taken: Micromorphology blocks at 16–31, 22–37 and 26–42 cm; small bulks at 20–25, 28–32 and 32–40 cm

The borehole and test excavation profile log descriptions

Deep valley cores: sample depths of small bulk and micromorphology samples

Xemxija 1 valley core

Sample depth (cm)	Description	Micromorphology block sample at cm	Small bulk sample at cm
47-70	yellowish brown silty clay; 5Y6/4		
70-85	yellowish brown calcitic silt with fine stone; 5Y8/3		
85-112	calcitic silt with orange mottles; 5Y8/3		
112-122	reddish brown silty clay; 10YR5/6		
122-151	light reddish brown silt; 5YR6/4		
165-206	yellowish brown silt; 10YR5/4	199-201	205
206-250	pale grey silt; 10YR5/1 to 6/1	220-3	
250-265	pale grey fine sand; 2.5YR6/2	250-3	255
265-295	grey/orange silt sandy/silt loam; 10YR6/4	273-5	275
295-317	mid-grey silt; 5Y4/1	302-4	300
317-319	dark grey silt with fine sand; 5Y3/1		
319-335	black silt with fine sand; 5Y2/1		330
335-355	grey silt; 7.5Y1	335-9	
355-405	grey silt with common humified organic matter; 7.5Y4/1	403-5	365
405-425	black organic silt mud; 10YR2/1		405
425-450	grey silt with common humified organic matter; 7.5Y4/1		435
460-528	black organic silt mud; 10YR2/1; C-14 date of 2198-1985 cal. BC at 460 cm	495-7	490, 513
528-543	greyish black silt; 10YR4/1		535
543-565	dark grey silt with common humic/organic fragments; 10YR4/1	545-7	555
565-600	dark grey silt; 10YR4/1; C-14 date of 4326-4053 cal BC at 570 cm	578-80	570
600-630	black organic silt; 10YR2/1	610-2	600
630-635	mottled grey/black organic silt; 10YR4/1 and 2/1		630
635-655	dark grey silt; 5Y4/1	645-7	638
670-685	brown to dark brown silt loam with few fine stones, manganese flecks, few plant remains fragments; 10YR4/3		680
685-815	brown silt loam with orange oxidation mottling; 10YR4/4	685-7, 725-7, 772-5, 785-7	710, 740, 775, 787, 800
815-832	brown to dark brown silt loam with few fine stones, manganese flecks, few plant remains fragments; 10YR4/3	823-5	818
832-855	brown to dark brown silt loam with few fine stones; 10YR4/3	833-5	835
855-870	brown silt loam with orange oxidation mottling; 7.5YR4/2	868-70	865
870-890	brown silt loam with orange oxidation mottling and limestone fragments; 7.5YR4/2		875
890-910	dark greyish brown organic silt; 7.5YR2/2		890
910-922	brown organic silt with limestone fragments; 7.5YR4/4	913-5	913
922-943	dark brown silt loam; 7.5YR3/2	025-7	922
943-960	pale brown fine sandy/silt loam with abundant limestone pebbles; 10YR6/3	945-7	945
960-990	dark yellowish brown fine sandy/silty clay loam with abundant limestone pebbles; 10YR6/4/4; C-14 date of 7000 cal BC at 990 cm	965-7, 975-7	970
990+	Limestone bedrock		

Appendix 6

Wied Żembaq 1 valley core

Sample depth (cm)	Description	Micromorphology block sample	Small bulk sample
0–119	dark brown silt loam; 10YR4/3	7-9, 45-7, 80-2	9, 47, 82
119–161	yellowish brown coarse sandy silt loam with occasional limestone pebbles; 10YR4/2		
161–213	dark greyish brown sandy silt loam with occasional limestone pebbles and common organic fragments; 10YR4/2		
215–217	yellowish brown silt loam; 10YR5/4	215-7	217
217–315	weathered limestone pebbles		
250–260	greyish brown silt loam; 10YR5/2	253-5	255
260–350	dark brown silt loam; 10YR4/3	300-02	302
350–362	limestone pebbles		
362–380	dark greyish brown silt loam; 10YR4/2	365-7	367
380–400	dark grey silt loam; 10YR4/1	396-8	398
400–420	very dark grey organic silt mud; 10YR3/1	410-12	412
420–450	dark grey organic silt mud with occasional humified plant remains and iron mottling; 10YR4/1	433-5	435
450–480	dark yellowish brown silt loam with orange oxidation mottling; 10YR4/4	460-2	461
480–518	dark grey organic silt mud with orange oxidation mottling; 10YR4/1	496-8	498
518–558	very dark grey organic silt mud with pebbles at base; 10YR3/1	528-30	530

Marsaxlokk valley core

Sample depth (cm)	Description	Micromorphology block sample	Small bulk sample
0–40	pale brown fine sandy/silt loam with fine limestone fragments; 10YR6/3	5-7	6
40–76	light yellowish brown silt loam; 10YR6/4	62-66	66
86–155	light grey, calcitic, very fine sandy/silt; possibly micro-laminated; 10YR7/1	110-112	112
155–165	brownish yellow fine gravel and coarse sand; 10YR6/6		
165–170	very dark grey organic silt mud; 10YR3/1		
170–185	light brownish grey very fine sandy/silt; possibly micro-laminated; 10YR6/2	170-2	172
186–192	pale brown fine gravel and coarse sand; 10YR6/3		
192–245	yellowish red silty (clay) loam with occasional fine limestone pebbles; 5YR4/4	215-7	217
245–286	dark yellowish brown silty clay loam with frequent fine limestone pebbles; 10YR4/4	255-7	257
286–292	light yellowish brown fine gravel and coarse sand with marine shell fragments; 10YR6/4		
292–332	brown to reddish brown silty clay loam; 5YR4/4	296-9, 320-2	299, 322
332–353	pinkish brown, calcitic silty clay loam with common weathered limestone; 10YR7/4		
353–386	pale pinkish brown calcitic silt; 10YR8/4	365-7	367