SAMSON

1

Excavator*s

SS 1

SS 2

SS 3

SS 8

SOIL

700407

700408

700409

700410

Site C. 17

Mixture of black (10YR2.5/1) organic sand and very pale brown (10YR7/4) clay containing granite fragments. The latter becomes reddish-yellow (5YR6/8) on ignition. The pale brown clay is similar in composition to "rab" in Slag samples SL2 SL3 and SL4, the only difference being that SL2 and 3 have been heated intensely and SL4 less intensely, resulting in differences in colour.

Site A "Natural" B horizon (rab) of soil on granite varying in colour from 10YR8/1 to 7.5YR6/6 when dry and 7.5YR5/5 to 5/6 when moist.

Silty loam, fairly hard, friable, non-swelling, non-sticky, plastic structure massive, numerous pores possibly caused by soil fauna. No clay migration but pores have smoothed and slightly iron-stained walls. Sand is predominantly quartz and mica.

Filling of depression in floor -? Charcoal Site A

Dark red-brown (10YR3/2) in colour when dry. Highly humic. Predominantly sand with smaller quantities of silt and clay, rather less ferruginous than the subsoil (SS 2). Charcoal present in small quantities - small fragements some very finely divided. Most of dark colour due to humus.

Site A Surface of Stokehole. Dry colour dark red-brown (10YR3/2). Humic, but not so highly as SS3. More sand than 3, but smaller proportion of silt and clay than SS 3. Similar to SS 3 after ignition. Some charcoal present, very finely divided, but colour mostly due to humus. Much less humus than in SS 3. Not appear to be markedly ferruginous and no marked evidence of burning.

1970

Report 1067

SOIL

SAMSON

2

	Excavator's xxxxx	·		
700411	ss 4	Site B Soil from below ? fill wall at top of beach. Brown (10YR5/3) dry sandy loam containing small granite fragments.		
700412	SS 5	Site B "Natural" from below SS 4. Yellow-brown (dry 10YR5/4) sandy loan containing granite fragments. Coarser textured than SS 4.		
700413	58 6	Flats "Sand" from beside possible field wall. Sand consisting mainly of quartz of varying grain size and some mica - result of weathering of granite. Also containing small shells and fragments of larger shells.		
700414	SS 7	Flats Soil from below SS 6. Pale brown (dry 10YR6/3) clay loan containing many granite fragments and some shell fragments.		
700415	SS 9	Site C. Clay from F1 to compare with slag samples SL1 and SL3. Yellowish-red in (5YR5/6) colour. No comparison with SL1 (is totally different). Different colour and finer textured than SL3.		
700416	SS 10	Site C Clay from layer (3) - ? Soil below Building C. Sample has dark sand as well as pale brown silt. Slightly hard, friable, non-swelling, plastic, not sticky and possibly slightly siltier than SS2.		
		<u>NB</u> Site A is an undated cellar with a furnace, filled with blown send.		
		Site C Dune Timber building - 2 period graves Stone building with stone bowl. Pot -> Early Chr Co-7 A Timber building with 2 hearths Sand - sea sand Waring scouning		
		Grave with buried and 2 cremations		

1970

Soil

Excavator's

51

Samson

Site C. Cuestion: Are these fragments of bone?

On exa idation the sample appears to consist of very scall charcoal fragments (too scall to identify) in becam still wither we could be seen. The absence of boxs was no discond by testing For phosphate, which was found to be presented by in trade amounts.

Marchael Alexandro
Marchael Alexandr

1971

SOIL

SANSON

				SAMSON 1977		alana ini Alan
1				1		
1			Denth in			
	xxx		XXXXXXXXX		20000	
	み		Section		38	PO4
				Baulk between Area A and B (Trenches)		
		5 . 0 3	alaste Nochiti i staat		7 65	
125	ЛА	71	(about 6"		/ • • • •	tive
			below the			
	1 		surface)			
24	HK	90	4-4-2"	Black occupation layer	7.9	weak
23	HK	89	4-15"	Laver 6. Black laver containing Limpets, bone	7.15	DOB
				and pottery (only stains were left by bones and		tive
				appear to be seaborne rather than wind-borne sand		
22	.	88	Below 15 ^H	Laver 38	7-1	trac
rigenter and an						•••
				Photo No 24 Layer 7 beneath wall 9		-
				about 1' below the present surface		
26	IIK	92	0-1"	Black pan (10YR3/1) on top of layer 7. This	5.5	
			store)	appears to be the result of compaction - it is not an iron pan		
¥87	HK	93	1-4"	Layer 7 (10184/2) dark brown	6.15	
	EK,	94	Below 8"	Layer 6. Lighter colour (10YR5/4):than	6.2	
				layer 7		
		n agus (1 d T	· .	Site 18 in Area C Photo No 25		-
753	. HK	99	0-2"	8" below present surface. Pan resulting from	6.9	Weal
			. '	compaction		~
	a a constant	98	2-5"	Below the pan. Dark grey sand containing iron	6.81	weak
			n 1920 - Santa Markovan Markovan († 1920 - Santa	tenstis		
		- 27		Charcoal from layer 7.		
		96	5-12"	Black layer 7. This layer is not the same as in	6.85	461.
				of charcoal and consists of pitfill overlying		
				layer 6. The present of slag is evidence of metallurgy, as is the high phosphate content		• • .
			Balan anu		ا سم بو	
			and The second sec	Tellel C	7.03	Nee
						14 14

Samson

Question: Why was bone preservation in Layer 7 so poor in view of the present high pH of samples of soil from this layer?

Layer 7 is not the same all over the site, therefore which Layer 7 are we talking about? Layer 7 in baulk between Areas A and B(Trenches) has a pH of 7.65, beneath wall 9 it has a pH of 6.15; these appear to be similar, differing from Layer 7 at Site 18 in Arae C which has pH 6.85 and evidence of methallurgy (slag, iron, high phosphate, etc.).

Ther are two possiblities A. pH was low at the time of bone deposition and for some time subsequently, during which time the bones disintegrated. Later the pH changed because Layer 7 was covered by calcareous (shells) wind-blown sand. However, sand samples collected in 1972 from the dune and on site above layer 7 are not calcareous. B. Breakdown of the bones may have resukted from microbiological and physical activity due to exposure - continuos wetting and drying. There may have been some effect of the chloride ion on phosphate.