ANCIENT MONUMENTS LABORATORY

REPORT

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AUTHOR

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TITLE

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The Human Bones from Roughridge Hill, Wilts.

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A.M. Lab. nos. 790086 -790106 791612

Period: Neolithic and Bronze Age

Janet D. Henderson Ancient Monuments Laboratory March 1930

A large sample of both cremated and inhumed material was presented to the Lab. for examination from sites A,B and C at Roughridge Hill. Most of the bone was in an extremely fragmentary condition so that the minimum amount of analysis only was possible, ie. to differentiate between human and animal bone and to separate the various parts of the skeleton. In only a few cases was an estimate of age and sex possible. In no cases was it feasible to measure stature and in only one individual was the bone sufficiently well preserved for examination for any anomalies or pathology. Nowhere was it practicable to make an estimate of the minimum number of individuals represented at any of the three sites. However it was usually possible to state whether each sample of bone represented one or more individuals (the material was too fragmentary for greater accuracy than more-than-one individual). Instances of possible associations of bone finds (both cremations and inhumations) are discussed in more detail under individual numbers in the Catalogue of Finds.

The Cremations

The cremated human bone was passed through sieves ranging from lmm. to 5mm. to facilitate identification of the individual fragments. Where possible fragments of skull, mandible, long bones and extremities, ribs, vertebrae, pelvis and scapulae were sorted and weighed to give some indication of the relative proportions of bones present. In all cases samples of skull and long bones and extremities provided the majority of the material and hence the greatest weights but in no one individual was there a large proportion of the skeleton present. For example the most cremated bone was for no. 387 (Site B) for which the total weight was less than one kilogramme. When it is remembered that the average dry weight of an adult skeleton ranges between two and four kilogrammes (and usually nearer four) it can be seen how small, relatively speaking, the samples from Roughridge Hill are.

The cremated bone was also examined for degree of burning, (colour, amount of splitting and cracking) and the general size of fragments. It was found that for all the material from Roughridge Hill the degree of burning was fairly high, most of the bone being grey or whitish in colour and very cracked. Further the cremated bone was all in very small fragments, maximum length of any bone being 4.8cm. (no. 495 from Site C); this may have

been in part due to post-burning crushing but also most of the material does not seem to have been found associated with urns or other containers and it is therefore suggested that the small size of the fragments provides additional evidence for a high degree of burning at cremation. (It should be noted that although a great degree of burning has always be en possible at cremations by no means has it always been found to be the case in prehistoric material and it has been suggested that the position of the body in the pyre may well be of major importance in this, as well as the length of time of the cremation (Wells, 1960).

In summary the cremated bone from Roughridge Hill represents small samples of highly burned, small fragments of human bone for the most part identifiable only as human.

The Inhumations

The inhumed human bone was sorted and individual bones were identified. Where possible broken bones were reconstructed but although generally in a better condition than the cremated material the inhumed bone was still rather poorly preserved and reconstruction was fairly minimal.

As with the cremations it was not possible to establish a minimum number of individuals but the inhumations, where necessary, were assessed for the presence of one, or more than one, individual. Where possible observations were made for age and sex but little further analysis was feasible.

For the most part age was assessed by the dentition, cranial sutural fragments and the developmental maturity of the skeleton. Sex was derived from the pelvis and the long bones. Full details of the varying methods used for each individual from Roughridge Hill are given in the Catalogue of Finds. It was not possible to make an estimate of stature for any of the inhumed bone present, nor was any of the bone in a good enough condition for analysis of any anomalies of pathology.

In summary like the cremated material from Roughridge Hill the inhumed bone consisted of small samples of poorly preserved bone for which such analysis as there was amounted to no more than assessment of age and sex, and no final estimate of the minimum number of individuals present was possible.

Conclusion

A small sample of human bone from Roughridge Hill was examined at the Lab. The material came from three separate areas of the site and apparently ranged in time from the Neolithic to the Bronze Age. Site A yielded the most human bone but that from Site B was best preserved. The material from Site C was poor in both quality and quantity. Since most of the bone was very poorly preserved it was not feasible to estimate the number of individuals at the site, nor, except ina few cases, was analysis of the bone other than as human possible.

It cannot be stated on the mone evidence available whether this material represents a single population sample or complex from different populations, nor is it clear to what extent the burials represent use of Roughridge Hill through time. The only bone evidence to this effect is that whereas Site A and Site B implement both grewations and inhumations Site C consisted only of cromations. However this may indicate a difference in burial oractice between groups as much an a change through time.

Reforming Martiones in the Toxt

Brothwell D.H. (1972): Diggin: Up homes: The Excavation, Treatment and Study of Human Remains. British Museum (Natural History), London. 2nd ed.

Schour J. and Massler E.: The Development of the Human Dentition. J. Amer. Dent. (1941) Assoc. 28. 1135.

Wells C. (1960): A Study of Cremation. Antiquity 34. 29 - 37.

Table 1: The Material from Roughridge Hill Listed By Context.

Site A

Context	Find no.	AML no.	Type of Find (Cremation/Inhumation)
QITI	197	790090	Onemated bone
Q1T4	319/2	791612	Tooth
02T5	52	790087	Cremated bone
Q2T8	105/2	791612	Inhumed bone
†1	110/2	11	Tooth
н	145/2	11	Inhumed bone
H	160	. 0	Inhumed bone
11	45/2	19	Inhumed bone
11	79/2	н	Inhumed bone
9.3 T 3	21	790086	Cremated bone
11	57	790088	Cremated bone
11	3/2	791612	Inhumed bone
11	23/2	11	Inhursed bone
11	32	19	Inhumed bone
Q 3 T1 3	195/2	791612	Inhumed bone
Q4T9	102	791612	Inhumed bone
Q4 T 9-10	3 05/2	U	Inhumed bone
QITIO	131/2	Ħ	Inhumed bone
11	89/2	н	Inhumed bone
Thurnam's Pit	377	790091	Cremated bone

Site B

Conte	<u>(t</u>	Find no.	AML no.	Tying of Fird
Q) T 6		3155	790093	Chemated hone
0ंडम.वे ((Thurmamis Pit)	381	790095	Cremated bone
Q3T7/8	3	41.1/2	791612	Inhumed bone
23T8		240/2	11	Inhumed bone
11		268/2	11	Inhumed bone
9t		331/2	11	Inhumed bone
Q4TI2	Pit 10/31	376	790094	Cremated bone
**	n	387	790096	Cremated bone
Q4 <u>T</u> 13		357/2	791612	Inhumed bone
	Baulks of marts Pit	172	790097	Cremated hone
Site (3			
	7)	434/3	791612	Oncodeted bone
[299] 3	7 Pit 6	434/3 494B	791612 "	Oresisted bone Oremated bone
[299] 3				
[20]33 - H	Pit 6	494B	*1	Cremated bone
. n - n - 286,3-3	Pit 6	494B 489	" ?90101	Oremated bone Oremated bone
[20]33 - u - u	Pit 6 Pit 6s Pit 6s	494B 489 495	" 790101 790102	Cremated bone Cremated bone Cremated bone
[20]33 - n - n - n	Pit 6 Pit 6a Pit 6a Pit 7	494B 489 495 483	" 790101 790102 790099	Cremated bone Cremated bone Cremated bone Cremated bone
(20) 3 - u - u - u - u	Pit 6 Pit 6a Pit 6a Pit 7 Pit 10	494B 489 495 483 456 497C	" 790101 790102 790099 790103	Cremated bone Cremated bone Cremated bone Cremated bone Cremated bone
(20) 3 - 0 - 0 - 0 - 0 - 0	Pit 6 Pit 68 Pit 68 Pit 7 Pit 10 Pit 10	494B 489 495 483 456 497C	" 790101 790102 790099 790103 791612	Cremated bone Cremated bone Cremated bone Cremated bone Cremated bone Cremated bone
Ç2013 3 - 11 - 11 - 11 - 11 - 11 - 11 - 11	Pit 6 Pit 6a Pit 7 Pit 10 Pit 10 Thurnam's Pit	494B 489 495 483 456 497C	" 790101 790102 790099 790103 791612 790098	Cremated bone
Q3T5	Pit 6 Pit 6a Pit 6a Pit 7 Pit 10 Fit 10 Thurnam's Pit Pit 1	494B 489 495 483 456 497C 443b	" 790101 790102 790099 790103 791612 790098	Cremated bone
Q3T5	Pit 6 Pit 6a Pit 7 Pit 10 Fit 10 Thurnam's Pit Pit 1 Pit 7 Thurnam's Pit	494B 489 495 483 456 497C 443b	" 790101 790102 790099 790103 791612 790098 791612 790105	Cremated bone

The Human Bones from Roughridge Hill, Wilts. - Catalogue of Finds

Site A

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A.M. Lab. nos. 790086 - 91

791612

Period: Neolithic and Bronze Age.

Janet D. Henderson Ancient Monuments Lab.

AML no.	Find no.	Feature no.	Description and Report
790086	21	Q3T3	This bag contained a very small quantity
			of material - total weight was 8.5 grams.
			One small fragment of cremated human bone
			was identified.
790087	52	Q2T5	A small fragment of cremated human skull.
			Maximum length: 1.6cm.
790088	57	Q3T3	This bag contained several small fragments
			of burnt human bone. Individual identif-
			ication of the bones was not possible,
			with the exception of one fragment of tooth
			root. Weight of the sample was 8.7gms.
			Maximum length: 3cm.
790089	66	Q2T8	This was a fragment of charcoal - not bone.
790090	197	QlTl	Some very small fragments of burnt human
			bone. There was nothing greater than
			one centimetre in length, total weight of
			the contents being 6gms. Individual
			identification was not feasible.
790091	377	Thurnam's Pit	The total weight of this sample was 28.5gms.
			The fragments were all of cremated human
			bone and included three teeth, two incisors
			and a tentatively identified premolar. A
			distal phalanx was also observed. Although
			the bone was all white in colour the
			appearance and condition of the teeth
			would suggest that the bone had been
			incompletely burned and the size of the
			fragments was due to crushing either after
			burning or after burial. This sample was
			labelled as being associated with pot no.
			378. There is no evidence to indicate
			that these remains are those of more than
			one individual. If, therefore they do

represent one individual who was buried

A**L no. Find no. Feature no. Description and Report

377 cont.

in pot 378, then it must be noted that they represent an extremely small proportion of the whole, the average skeleton normally weighing between two and four kilograms.

791612 105/2 Q2T8 This bone is a fragment of human mandible. The only tooth present, in situ, is the left mandibular second molar. The socket for the adjacent third molar is also present, the to it appears having been lost ante-mo An age for this mandible was estimated from the degree of wear upon the second molar. The depted short of Protocol (1972) we depted short of Protocol (1972) we

mandible. The only tooth present, in situ, is the left mandibular second molar. The socket for the adjacent third molar is also present, the tooth it appears having been lost ante-morter An age for this mandible was estimated from the degree of wear upon the surface of the mandibular second molar. dental chart of Brothwell (1972) was used. The mandible was accordingly aged at 35-45 years. With regard to disease the second molar has a carious lesion on its distal surface. may well have been associated with a caries on the third molar, the infection having spread from one tooth to the other. The large cavity in the body of the mandible at the third molar, mo. probably caused by an abscess supports the hypothesis of a carious third mola. since abscesses are frequently associated with carious teeth. However sine the tooth itself is not present this cannot be confirmed.

791612 110/2 Q2T8

a) A lower premolar - most probably second left but the tooth is rather damaged so that accurate diagnosis is difficult. Since the apex of the root is complete and the degree of wear is similar it is possible that this tooth belongs with 105/2 but there can be no certainty of this. It is only clear that this tooth belonged to an adult.

			- 3 -	
<u>Al</u>	Ml no.	Find no.	Feature no.	Description and Report
		110/2 cont.		There is no evidence for dental disease of any kind on the tooth. b) Animal bone.
75	91612	145/2	Q2T8	An anterior fragment of human mandible
				from which all the teeth have been lost,
	÷			some ante and some post mortem. Of the
				area exhibiting a post-mortem tooth loss
				(anterior right incisor, canine and premola
				the sockets are complete although the wear
				of their superior surfaces if suggestive of
				extensive periodontal disease. The mandible
				itself has a square chin and the mental
				protuberance is pronounced, partly as a
				result of the deep grooves for depressor
				labii inferioris on either side of the
				symphysis. These features are consistent
				with the specimen being that of a male
97.0	21/10	1/0	~ 0m /0	individual. No age estimation was possible
13	91612	160	Q2T8	This fragment comes from an immature femoral
				head (it is about seven-eighths complete).
				The condition of the inferior surface suggest
				that union with the diaphysis (shaft) had
				not yet begun. On the basis of the
				development of this femoral epiphusis the bone was aged at 12 - 15 years.
70	91612	45/2	Q2T8	These two fragments are both those of human
	,1012	4775	QL IO	skull. The larger is identified as a piece
				of parietal. Neither is sufficient either
				for ageing or for sexing.
79	91612	89/2	Q4T10	There were three bone fragments in this bag:
	. -	· ·	••	a fraction of mandible (not human), a tooth
				and the proximal phalanx of a thumb.
				a) The tooth was a deciduous canine from
				a child of about 8 years. This age estimate
				was derived from the wear on the tooth, the
•				condition of the root and the Schour and
				Massler chart for the development of the
				human dentition (Schour and Massler, 1941).
				b) The thumb fragment from its size
				belonged to an adult. It was badly damaged,
				most probably owing to post-mortem erosion.

AML no.	Find no.	Feature no.	Description and Report
791612	3/2	Q3T3	This bag contained two fragments - both of them human. a) A fragment of parietal bone, from the right side. The unfused piece of coronal suture gives this individual a maximum age of 35 years but it is not possible to be more specific. b) This is a mandibular first incisor tooth, left side. The occlusal surface of the tooth is very worn which would suggest that the tooth is that of a mature adult (ie. 35 years plus), rather than that of a young adult.
791612	23/2	Q3T3	This was the distal fragment of an adult human metacarpal. It was not possible to distinguish which one.
791612	102	Q4T9	The fragment of a long bone shaft. It is in a poor condition but the cross-section and density of the bone suggest that it comes from a femur or tibia.
791612	319/2	Q1T4	A human maxillary first right premolar which has been broken post-mortem. There is no evidence of dental disease but the occlusal surface has been worn which suggests a mature rather than a young individual, probably older than 35 years.
791612	305/2	Q4T9-10	This bag contained a number of human digital fragments. a) Part of one of the metatarsals of an adult. b) Two fragments (proximal) from the phalar of an adult foct. It is possible that a) and b) come from the same individual but this cannot be proved.
791612	32	Q3T3	This bag contained both animal and human bone. a) A rather damaged fragment of human radia shaft. b) Some splinters of human bone (further

identification was not possible).

c) The proximal extremity and part of the

AML no.	Find no.	Feature no.	Description and Report
	32 cont.		shaft of a non-human metapodial.
791612	17	QlTRl	This was not human bone.
791612	79/2	Q2T8	This bag also contained both human and
			animal bone. The largest fragment was that
			of an animal's proximal plna. There were
			six fragments of human long bone. Two of
			these were clearly radii from their cross-
			section. It was not possible to age or sex
			them. The damage to the surfaces of these
			bones was most probably dum to post-mortem
			erosion.
791612	195/2	Q 3 T13	This was a small fragment of human parietal.
791612	131/2	Q4T10	A fragment of human distal humerus shaft.
			Age and sex not obtainable.

Site B

A.F. Lab. nos. 790092 - 97 791612

Period: Neolithic and Bromse Age.

AML no.	Find no.	Feature no.
790092 790093	296 315b	Q1 T 6
790094	376	Q4T12 Pit 10/11

Description and Report

This was a fragment of non-human cone.

It was possible to identify two of the fragments of burned bone as human. No further identification was possible.

This bag contained a sample of fragmentary, burnt, human bone. The size of the sample is well illustrated by the weights for the

Skull: 15.64 g
Teeth: 1.45 g
Long Bones and Extremities: 65.1 g
Fiscellaneous fragments: 79.4 g

various parts given below:

The last named was the largest sample owing to the extremely small size of the fragments (mostly less than one centimetre long) and thus the impossibility of certain identification.

Age

There were three tooth crowns present which supply the only evidence for an age of this individual: a permanent first molar and two permanent second molars. The size of the teeth and the lack of wear on the occlusal surfaces would suggest that the teeth had not erupted or had not yet reached full occlusion. Particularly on the state of the first molar this indicates an individual of (very approximately) 6 years of age. Owing to the lack of tooth roots it is not possible to be more positive about this estimate.

Sex

It was not feasible to sex this individual.

		- / -	
AML no.	Find no.	Feature no.	Description and Report
7.30095	381	J2T9	This was the remains of a human cremation.
		Thurnam's Pit	. The bones varied in colour from black to
			blue-grey to white which would indicate a
			fairly high degree of burning although the
			presence of several fragments including
			cancellous bone does not suggest that this
			was excessive. The sample is small (total
			weight 110.68 grams) with few identifiable
			pieces; however these included a fragment
			of mandibular condyle, several pieces of
			skull and long bones. There were no teeth
			present nor was there any evidence to
			suggest that there was more than one
		individual present.	
		<u>Age</u>	
			There were no specific indicators as to
	aළ	age - it may only be stated that the	
			remains were those of an adult.
			Sex
			It was not possible to assess the sex of
			this individual.
790096	387	₄ 4 <u>9</u> 12	This was contained a relatively $\mathtt{lar}_{\mathbb{R}^2}e$ sample
		Pit 10/11	of burnt human none. The bones were rather
			broken but a Tair amount of identification
			and the second tracks the train to take

was possible as snown by the weights table below:

Skull and Manatible:	151•5 €
Long Bones:	498•5 (;
Pelvis:	31•3 g
Vertebrae (incl. sacrum):	31•1 g
Hands and Feet:	21•8 g
Ribs:	46.5 g
Scapulae:	6•3 g
Unidentified Material:	51.0 g
Residu e:	90•0 g

There was no evidence to suggest that the remains were those of more than one individual. The bones were all whitish in colour; and this together with the amount of splitting and breakage present is indicative of a high degree of burning.

387 cont.

Age

It was not possible to obtain an accurate estimate of this individual's age, nevertheless the following factors were suggestive:

- a) There were three tooth fragments present, one from a premolar toot and two from molar teeth. They all belong to the permanent dentition. The fact that the apices of the roots were all closed would suggest an adult individual but on this evidence alone it is not possible to be more specific.
- b) Included among the skull remains were some cranial fragments with sutures. A piece of parietal was particularly well preserved and the depth and spacing of this fragment make it clear that fusion of this suture had not yet commenced.

On the basis of these two pieces of evidenc it seems clear that the remains are those of a young adult most probably somewhere between 20 and 35 years of age.

<u>Sex</u>

It was not possible to estimate the sex of this individual.

The possibility arose that the material from nos. 376 and 387 might belong to one individual. In the light of the dental evidence (which puts 376 as a juvenile and 387 as a young adult) this does not seem likely and it must be concluded that the material, which may be indistinguishable mixed in parts, represents two, but most probably not more than two, individuals.

790097 472

NW/SW Baulks
Thurnam's Pit

This was a small sample (total weight 49.2g of cremated human bone. The remains consisted, in roughly half-and-half proport of skull and long bones. There was no evidence that the bones represented more than one individual. It was not possible

to estimate age or sex.

AML no.	Find no.	Feature no.	Description and Report
791612	339	QlTo	This is a fragment of animal bone, probably from an astragalus.
791612 791612	325/2 357/2	Q2T9 Q4T13	Another fragment of animal bone. Two fragments of human bone, one of which is
791612	356b	Q2T1/2	a distal metacarpal. A fragment of non-human bone.
791612 791612 791612 791612	240/2 268/2 331/2 411/2	Q3T8 Q3T8 Q3T8 Q3T7/8	These last four bags from Site B will be discussed together on the basis that possibly they represent one individual.
1,,	T **/ =	472110	Farmanal mode policies principalities

The four bags listed above contained inhumed human bones, most of which were in a fairly good condition. Nos. 268/2 and 331/2 had very few bones whereas nos. 240/2 and 411/2 had far more. The bones were sorted and some reconstruction was possible. In order to establish the likelihood of these bones belonging to the same individual the contents of each bag were plotted on a skeletal chart. As had been suspected there was no duplication of any of the bones which would have made the presence of more than one individual a certainty.

- 240/2: This bag contained almost entirely bones from the lower half of the skeleton. The exceptions were a fragment of the proximal left ulna, a few rib fragments and a piece of the sphenoid from the skull. There were fragments of pelvis, femora, tibiae, fibulae and both feet.
- 268/2: This bag contained a distal left tibia and the calcaneum and talus from the left foot. There was also a fragment of distal radius shaft.
- 331/2: The bones were mainly from the upper left extremity and included a distal radius and ulna and a fifth metacarpal. There was further a fragment of a right metatarsal.
- 411/2: This bag seemed to be the converse of 240/2 in that the bones all came from the upper half of the body. There were a number of cranial fragments parts of both scapulae, a complete right clavicle, a proximal left humerus a distal right humerus, some rib fragments and carpal and metacarpal bones (these latter were not individually identified).

In summary bags 240/2 and 268/2 would appear to contain the lower half of the body whilst bags 331/2 and 411/2 belong to the upper half. The evidence for these bones representing one and the same individual is as follows:

- i) There is no duplication of any of the bones present.
- ii) The fragment of distal radius shaft belonging to 268/2 fits with the distal radius from 331/2.
- iii) The bones would all appear to be of the same sex and age (see estimates below).

It is not possible to state with absolute certainty that these bones are all of one individual. On the other hand there is no conclusive evidence to the contrary. It is therefore most probable that the bones do all represent one individual. Certainly they come from the same area (Q3T8) with only 411/2 on the border (Q3T7/8). The fact that they come from different specific locations in that area would seem to indicate that the burial was disturbed and the two halves of the body became separated. The small amount of admixture of bone may be accounted for by the disturbance having occurred post - skeletonization.

Sex

The only bones suitable for sexing came from numbers 240/2 and 411/2.

- 240/2: i) A fragment of the right pelvis could clearly be sexed as female on the presence of the pre-auricular sulcus.
 - ii) The maximum femoral head diameter was 40.5mm., consistent with the bone being female.
- 411/2: i) Although the measurement could not be taken the proximal head of the left humerus was small in diameter which suggests a female.

Apart from the details listed above the general morphology and appearance of all the bones would seem to indicate a female and this was the conclusion that was reached.

Age

A number of teeth from 411/2 were present. Three first molars (the left mandibular was missing) were used for an age estimate by their wear patterns. Brothwell's chart (1972) was used. The teeth demonstrated asymmetrical wear patterns, possibly caused by disease though there was not enough evidence to prove this. With this factor taken into account the teeth were aged between 50 and 60 years.

Evidence from the rest of the bones was too fragmentary for any other ageing method to be used. It was merely possible to say that all the bones present are clearly those of an adult. There was no evidence for extensive osteoarthritis which meght have been indicative of age, however it must be remembered that its absence is not necessarily indicative of youth.

Stature

No estimate of stature was possible.

Anomalies, Pathology etc.

Anomalies, Patralo y etc.

There was no evidence for any major disease or trauma on the bones. One of the rib fragments showed signs of a healed fracture but it was an isolated example.

Conclusion

From the evidence outlined above it is most probable that the bones from the four bass (240/2, 268/2, 351/2, and 411/2) represent one adult, female individual of 50 - 60 years of age.

Site C

A.M. Lab. nos. 790098 - 106

791612

Period: Neolithic and Bronze Age.

AML no.	Find no.	Feature no.	Description and Report
790098	443b	Q 3 T5	This sample contained a very small amou.
		Thurnam's Pit	of burned bone, all of which was apparent
			human. The bone was mostly black or blue-
			grey which is not suggestive of a very hir
		•	degree of burning. There were 56 fragme
			altogether, of which 4 belonged to teet
			Of the rest skull, long bones, ribs and
			pelvis were all recognisable, the total
			weight of the sample being 14.5grams.
			The dertal memains included two root
			fragments, a complete mandibular incisor
			and a possible maxillary incisor
			latter was too damaged for certain
			Age and Sex
			With the dental evidence it was possible
			say that the remains were those of an ar-
			but it was impossible to be more precious
			Sex was not identifiable.
790099	483	UST13	An even smaller sample than that listed
		Pit 7	above (443h), this bag contained five
		Centre in Ne	fragments of burned numan bone (total
		Baul	lk weight 7.2g). The maximum length was
			2.5cm., for a long bone shaft. A further
			piece of long bone measured 2.25cm. The
			rest was unidentifiable other than as human.
790100	487	NW Baulk	This bag contained a large amount of
			charcoalitogether with one fragment of burnet
			human bone. It belonged to a vertebra,
	-		either cervical or upper thoracic. It was
			not possible to estimate either age or sex.
790101	489	Q2T13	This sample contained only a very small
		Pit 6a	proportion of human bone (total weight 20g).
			The fragments were all very small and so,
			for the most part, remained unidentified
			other than as human. However it was

Find no. Description and Report AML TO. Meature no.

489 cont.

possible to isolate two fragments of long bone shaft (maximum length 1.8cm.), a tragment of skull, four fragments of phalanges (one of which was complete) and four tooth fragments. There was no evidence for the presence of more than one individual (see 495).

Age

Two of the dental fragments could be identified as belonging to:-

- a) part of a deciduous canine crown
- b) the root of a deciduous molar. The size of the complete phalanx also supports the conclusion that the remains are those of a juvenile (ie. less than ten years old).

A large sample of cremated human bone was examined. The weights for each part are given in the table below:

> Skull: 142.5 g Dentition: 3.5 € Long Bones: 126.0 g 20.5 g Pelvis:

> 12.8 g Vertebrae:

Other Bones: 59.7 g (Ribs: 31.8g Hands and Feet 9.5g)

Skull: This consisted mostly of small unidentifiable fragments (maximum length 4.5cm.), largely cranial although there were one or two pieces of sphenoid. Dentition: There was a total of 18 tooth fragments, seven of which were crowns as opposed to roots. The roots were very chipped and broken but could all be identified as belonging to deciduous teeth. The crowns included a deciduous incisor or canine, two permanent premolars, a permanent first molar and two permanent incisors. All of the permanent crowns were incomplete. None of the teeth included root and crown

790102 495

U2T13

Pit 6a

47; cont.

together. The permanent teeth's occlusal surfaces lacked signs of wear which suggests that they were anerupted or not fully occluded, though it is not possible to clarify which.

Long Bones: There were a large number of small fragments, the maximum length being 4.8cm. The bones could be divided into diaphyses and epiphyses since union had not yet begun. There were nine fragments of epiphysis: two femoral distal condyles; one proximal tibia; a possible proximal tibia and two proximal heads, one feworal and the other humeral. The remaining fragments could only be identified as being emiph seal. maximum diameter for the femoral hear was 2.5cm., and for the humeral head was 2.5cm. All the respice were small in size. Of the diaphyseal fragments it was only posible to say that long lones were represented, but not which ones.

Pelvip: There were call a few Presments recognisable on pelvie, the mexicum serable was 4.200.

Vertebrae: The sample was small and the only togethistic telement was the courteid percent of the axio.

Other Boses: A number of fragments of the extremities and the rios could be identified. The remainder consisted of very small fragments which were only recognisable as human.

Age

There were a number of indicators for this individual's age:

- a) The cranial bodes were light in weight and thin in cross-section suggesting a juvenile rather than an adult.
- b) The few cranial fragments with sutures present show no evidence for fusion.
- c) The presence of a mixed dentition and

All no. Find no. Feature no. Description and Report

495 cont.

the lack of wear on the occlusal currices of the permanent fragments indicate an individual with a maximum age of c.12 years

- d) The rice of all the bone fragments supports the conclusion that this is a juvenile. In particular the diameters of the femoral and numeral heads (2.5 and 2.3 cm. respectively) are approximately half of what one might expect in an adult (most adults measureing more than 4 cm.).
- e) The odontoid process of the axis vertebra is immature.
- f) None of the epiphyses present show any signs of union with any of the diaphyses, indicative of a maximum age of c.13 years. It may therefore be concluded that on the data outlined above the remains of 495 are those of a juvenile with a maximum age of 12-13 years and probably less than 10 years.

 Sex

No estimation of sex was possible.

469 and 495

The remains from 409 were found in the same context as those from 495. On the dental evidence 489 may be judged as a juvenile of less than her years, thus the same at 495. Although certainty cannot be reached it is highly probable that the small sample 409 represents actually part of the same individual as 495, a payerile of less than ter year, of indeterminate sex.

790103 4%6 Q2T13 Pit 10 Total weight 97.3g. This bag contained very fragmentary cremated remains, mostly skull with pieces of long bones, ribs, vertebrae and a tooth root also being identified.

The maximum length of any of the bones was 3.1cm. The only indication of age came from the skull whose size and thickness suggested a young individual. It was not possible to make an estimate of sex.

		- 10 -	
2-1, 100.	gird no.	Feature no.	Description and Report
790104	v_{j}, w_j	Baulk -	A very small amount of cremated human
		Thurnam's Fit	bone contly of shaft and sxull. To
			in and Ilieaness of the cranial fra -
			ments in any estive of an adult individual.
			It was not possible to estimate sex.
790105	512b	Pit ?	There were four fragments of human bone
			in this sample:-
			j) An adult tooth root with part of the
			erowa.
			ii) A part of a probable broken carpal
			bone.
			iii) Two pieces, of 4.2 and 1.7cm., of
			long none shaft.
			The bones would appear to be those of an
			aiu L.
			No sex estimate was possible.
790106	1,13%		This hag contained a very small sample of
			human bone. Two fragments of skull and
			one of long tone shaft could be identified.
			No entimate of a pe or sex was possible.
791612	453	ATG	Two tragments of purned human cone.
		1 lt. 1	
791612	454/5	2015	Two fragments of burned homan bone,
17 502.5	Sometime is		probably skull.
791612	447	· i · · · · · ·	
4		·1·3 μητο	Various fragments of burned home, none
	464		of them human.
	4:.1		we therefore Morning one
791612	494B	(2013	Several fragments of burned bone. One or
71012	4.440	F1 6	
7.1 . 1.1	1:177		two splinter: were numan - the rest was not.
7.) t l?	4.17.3	⇒2 ^m 11:	Several fragments of burned hone. A few
		151 ± 10	pieces were human but the rest was animal.