Southampton French Quarter 1382 Specialist Report Download F10: Worked Bone

By Rosemary Grant

A total of 44 worked bone objects were recovered from excavations at Southampton French quarter. The assemblage includes objects from a range of functional groups. These are, Games and toys, Personal objects, Implement handles and Textile working. There are also a number of fragments from Bone and Antler working.

The condition of the assemblage is good and covers all of the phases on the site. The majority of the worked bone objects can be directly associated with a tenement however eleven of the objects can not. Thirty-six of the forty-four objects were recovered from pit fills.

Chronology of assemblage.

Late Saxon

Five objects were recovered from the Late Saxon phase. There are two ices skates, one made from cattle metacarpal and the other from a Red Deer radius. Both have been flattened and polished on the underside and show extensive wear to the underside through use. There is an incomplete scale tang handle made from antler. Only one side of the handle survives but there is decoration visible in the form of horizontal bands running along the length. There is also a point made from cattle metatarsal and a piece of worked Red Deer antler.

Anglo Norman

Fourteen objects were recovered from the Anglo Norman Phase making this phase the most represented in the worked bone assemblage. Objects from this phase include four needles, a worked pig fibular, an ice skate, a single sided composite comb and a side plate from another, a gaming piece, three pieces of Deer antler tine and a point also made from deer antler. Lastly there is an off cut of bone. Three of the needles are complete and one is incomplete. Two are made from pig fibulae and two from mammal long bones. The worked pig fibular is flattered and perforated at both ends. Worked pig fibulae were used as pins.

The ice skate is made from horse metacarpal and is flattened and polished on the underside with an up swept toe. The gaming piece is made from Deer antler. It is oval with a doomed top. It has 3 incised lines that encircle the shoulders with another 3 encircling the base. The top is worn away but a small amount survives in the centre showing evidence of ring and dot motif. The complete single sided composite comb is decorated with bands of horizontal grooves on one side whilst the other side is plain.

High Medieval

Thirteen objects were recovered from the High Medieval phase. This is the second largest phase represented by the assemblage and the objects include, three ice skates, three needles, a pin, a scale tang handle, a double sided composite comb, two pieces of worked antler and an off cut of ivory. The three Ice skates are all made from horse metatarsal. Each has a flattened and polished under surface and an up swept toe. Two of the three needles are incomplete. The other is made from deer antler and is roughly carved. All three have relatively small holes compared to the head and shaft.

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The scale tang handle has both side plates remaining and is decorated with ring and dot motif. There is evidence of an iron tang through the centre of the plates. The double-sided composite comb has a small amount of side plate remaining and it is decorated with horizontal grooves and ring and dot motif. There are three rivet holes visible where it would have been attached. The teeth are fine and worked into fine points at the ends. A crossbow bolt retrieved from tenement 170 is described separately below.

Late Medieval

Two objects were recovered from the Late Medieval phase. A needle and a plate from a scale tang handle both made from large mammal long bones.

Post Medieval

Five objects were recovered from the Post Medieval phase. Three of the five objects are made from Ivory. There are two Ivory double sided simple form combs, one complete and one incomplete. The third Ivory object is a whittle tang handle which has a bulbous end. There is threading on the inside of the handle to hold a bung. The two other objects are a possible peg made from a horn core and an off cut of rib from a large mammal.

Early Modern

Five objects were recovered from the Early Modern phase. There is a whittle tang handle with a plane shaft. It has threading on the inside to hold a bung. There is also a possible handle, which has a polished shaft with flattered spatula like end. The centre section of the shaft is raised and decorated with a band of horizontal grooves. There is also a brush, a mah-jong tile and an off cut of long bone. The brush is incomplete. It has green staining at the holes suggesting that the bristles were of copper. The Mah-jong tile has the number 5 with 5 bamboos. The tile would have been backed with felt or such like and the fixing for this is visible.

Tenement	Phase	Context No	Small Find	Description	Parallel
			No		
167	PMED	7536		Top of horn core. Possible peg.	
170	AN	6257	215	A complete needle made from a Pig fibular	(Harvey
				or large mammal long bone. It has a polished	(Southampton)
				shank with an ovoid section. It has a roughly	p.272 Fig.247
				shaped head with a hole which has been	no.1929)
				drilled from both sides. Bends along the	
				length most likely through use.	
170	AN	7267		Worked Pig Fibula. It has a simple shaft	
				with an ovoid section. Both ends are	
				flattened with wholes drilled transversely.	
				through them.	
170	HMED	6729		Ice skate made from a Horse metatarsal. The	(Macgregor1985
				skate has a slightly flattened and polished	p.143 fig.76)
				under surface and an up swept toe.	
170	EMOD	6438		Whittle tang handle. Made from a large	
				mammal long bone. Plane shaft. There is	
				threading on the inside of the handle to hold	
				a bung.	
170	HMED	6054		Crossbow bolt	
172	LSAX	106		Point. Cattle metatarsal worked into a point	(MacGregor 1985
				by chopping obliquely across the bone. The	p.175 fig.93 b).
				point has been smoothed into a more rounded	

Tenement	Phase	Context No		Description	Parallel
			No		
				point possibly through use.	
172	AN	7338	279	Bone single sided composite comb.	(MacGregor.1985
				Central tooth plate. Two side plates, one	p.89 fig.50 o).
				each side. Three rivets are visible on both	
				sides. One side plate is decorated with bands	
				of horizontal groves whilst the other side	
				plate is plain. There is evidence that the	
				teeth were carved whilst the tooth plate was	
				in place as there are cut marks extending	
170		2.40		from the teeth onto the side plate.	
172	HMED	349		Piece of worked antler tine. From a Red	
				Deer. There is a hole drilled transversely	
				through the antler near the base. There is	
				slight polish to the tip.	
173	AN	939		Piece of worked antler tine. From a Red	
				Deer. The base of the tine has been roughly	
				chamfered and there are saw marks where	
				the tine has been removed from the main	
				branch.	
173	AN	941		Possible comb side plate. Two visible rivet	(Galloway
				holes with iron staining. Large mammal rib.	(Winchester.)
					p.687 fig189)
173	AN	265	25	A complete Needle made from a large	(Harvey
175	1 11 1	205	23	mammal long bone. It has an ovoid section	(Southampton)p.27
				with a highly polished shank and head. It has	
				a hole which has been drilled from both sites.	no.1929).
				Bends along the length most likely through	
. = >				use.	
173	AN	281	27	Needle made from a Pig Fibula. It has a	(Harvey
				roughly shaped head with a hole drilled from	
				both sites. Bends along the length most likely	
				through use.	no.1929).
173	HMED	599		Ice skate fragment made from a Horse	(MacGregor.
				metatarsal. The skate has a flattened and	(Winchester)1990
				polished under surface and an up swept toe.	p.709 fig.199).
173	HMED	599		An incomplete ice skate made from a Horse	(MacGregor.
				metatarsal The skate has a flattened and	(Winchester)1990
				polished under surface.	p.709 fig.199).
173	HMED	1018	55	Pin. Made from a large mammal long bone.	(Harvey
				It has a plain shaft with a ball head set in a	(Southampton)p27
				collar with two ridges.	3 fig248 no. 1936)
173	HMED	1078		Scale tang handle. Made from a large	5 1152 10 110, 1750)
115		1070		mammal long bone. Both sides of the handle	
				survive and there is evidence of staining	
				from the iron tang through the centre of the	
				plates. Three rivets are visible. Decoration	
				consist of a four dot motif which continues	
150				along the length.	A A
173	HMED	979	54		(Margeson 1993
				use and has a large flat head with relatively	p.186 fig.137 no.
				small hole and an ovoid section.	1450).
173	HMED	1111		An incomplete needle made from a large	(Margeson 1993
				mammal long bone. It is polished through	p.186 fig.137 no.
				use and has a large flat head with relatively	1450).
				small hole and an ovoid section. Bends	
	1		1	along length most likely through use.	1

Tenement	Phase	Context N	o Small Find	Description	Parallel
			No	r	
174	AN	1326	104	An incomplete needle made from a long	(Harvey
				bone. It is polished through use and has a	(Southampton)p.2
				kidney shaped section.	2 Fif.247 no.1929
176	AN	3734		Piece of worked antler tine. From a deer.	2111.217 110.1727
170	2 31 9	5754		There is evidence of saw marks at the base of	
				the tine where it has been removed from the	
				main branch. There is evidence of working	
170	IMED	5105	79	towards the tip.	
179	LMED	5105	19	Plate from a scale tang handle. Made from	
100	LOAN	5212		long mammal long bone.	
180	LSAX	5313		Piece of worked antler tine. From a Red	
				Deer. There is evidence of saw marks at the	
				base of the tine where it has been removed	
				from the main branch. There are horizontal	
				striations along the length.,	
180	HMED	5373	145	Bone double sided composite comb.	(MacGreagor
				Convex ends. There are three rivet holes	1985p.93 fig.51 d
				visible on the central reservation of the comb	
				where the side plates would have been	
				attached. A small amount of side plate	
				survives which is decorated with horizontal	
				grooves and ring and dot motif. Two rivets	
				are attached. The comb has fine and coarse	
				teeth. The teeth are worked into fine points	
				at the ends.	
234	AN	8113		Possible off cut of bone.	
237	AN	3314	144	Gaming piece made from Deer antler. It is	(Brown
237	1 11 1	5511	1.1.1	oval with a doomed top. It has 3 incised lines	
				that encircle the shoulders with another 3	p.705 fig.196
				encircling the base. The top is worn away	no.2237)
				but a small amount survives in the centre	110.2237)
				showing evidence of ring and dot motif.	
227	AN	4497		Point made from Deer antler.	
237	AN		104		(II
237	HMED	4317	184	Needle/point. Made from Deer antler. It is	(Harvey(Southam
				roughly carved with an ovoid section along	ton)p.273 fig248
				entire length of needle. Worked to a fine	no.1931).
				point at the end. Very small hole relative to	
		01.10		shaft.	
237	LMED	3148		Needle. Made from Large mammal long	(Harvey
				bone.	(Southampton)p.2
					2 fig.247 no.1921)
237	PMED	3641		Possible off cut from working. Rib of large	
				mammal.	
237	PMED	3189	122	Ivory double sided simple form comb.	(Harvey
				Central reservation widens at one end.	(Southampton)
				Course and fine sets of teeth. Ends are	p274 fig249)
				straight along the length and rounded at the	
				bottom.	
237	PMED	3323	100	Ivory whittle tang handle. Evidence of where	
				a metal band may have been at tang entrance.	
				Bulbous end. There is threading on the	
				inside of the handle to hold a bung.	
239	LSAX	657	30		
237	LSAA	057	50	Scale tang handle. An incomplete scale tang	
				handle made of antler. Only one side of the	
				handle survives and there is evidence of two rivets. Decoration is in the form of horizontal	
	1	1	1	mysta Description is in the form of horizontal	i .

Fenement	Phase	Context No Small Find	Description	Parallel
		No		
			bands running along the length.	
	LSAX	185	Ice skate made from a Red Deer radius. The	(MacGregor.
			skate has a flattened and polished under	(Winchester) 1990
			surface. There is extensive wear to the	p.709 fig.199 900-
			underside.	1066)
	LSAX	3758	Ice skate made from a Cattle metacarpal. The	(MacGregor.
			skate has a polished and flattened under	(Winchester)1990
			surface. There is extensive wear to the	p.709 fig.199)
			underside at each end.	
	AN	889	Ice skate made from a Horse metacarpal.	(MacGregor.
			The skate has a flattened and polished under	(Winchester) 1990
			surface and an up swept toe.	p.709 fig.199)
	AN	3734	Piece of worked antler tine. From a Deer. It	
			has been cut off at the base and the tip so that	,
			only the centre section remains.	
	HMED	4418	Ivory working off cut.	
	HMED	5064	Piece of worked antler burr. From a Red	
			Deer. There is a hole drilled transversely	
			though the thinnest part of the burr.	
	PMED	4148	Incomplete ivory double sided simple form	(Harvey
			comb with one set of teeth being fine and the	
			other coarse.	p.274 fig.249
				no.1944)
	EMOD	6000	Possible off cut of Long bone.	
	EMOD	6016	Possible handle. Polished shaped shaft with	
			flattered spatula like end. The centre section	
			of the shaft is raised and decorated with a	
			band of horizontal grooves.	
	EMOD	5200	Brush made from a large mammal long bone	
			Incomplete. Polished. Green staining might	p.183 fig.99)
			indicate that tufts were of copper wire. One	
			side has three parallel grooves. The other	
	EL COR	601.6	side has three rows of holes.	
	EMOD	6016	A mah-jong tile. Highly polished. Rectangle.	
			The front has the number 5 with 5 bamboo's.	
			The tile would have been backed with felt or	
			such like and the fixing for this is visible.	

The crossbow bolt

By Edmund Simons

Tenement: 170, Cxt: 6054, Cxt date:1250-1350

Finds retrieved from Southampton French Quarter include this antler bone 'nut' which forms part of the firing mechanism for a crossbow (or arbalest).

Crossbows have existed in Europe since the late Roman period. The main advantage they have over normal bows is they allow the crossbowman to take careful aim at a target without any physical effort. As such they could be used by untrained troops or for sniping. In the early 13th century new ways of spanning (pulling back the string) on these weapons using windlass pulley systems enabled the building of much bigger and more powerful bows.

These new bows were so powerful that they soon changed not only how battles were fought but how castles were built and special cross shaped loops were inserted into many castles to accommodate the new weapon. In England there were lots of ordinances against private individuals keeping crossbowmen although exceptions to these laws included certain seaside towns (like Southampton).

The size of the nut shows that it belongs to a very large military crossbow, possibly even a heavy siege bow. The iron remaining on one side of the nut may even be the remains of the trigger. These very large bows were used from behind cover (either a wall or a man-sized shield called a pavise) and were effectively long-range sniping weapons.

The nut would have sat within the bows wooden stock and would have held the string until the bow was aimed and shot. Although short, the bows of crossbows were very thick and made up of layers of material, they were far too powerful to span by hand. The notches in the back of the nut were used to hold the crossbow string after it was pulled back by the windlass. The bolt (arrow) was held by the notch running along the rim of the nut (an iron plate would have also kept the bolt in place and this allowed shooting downwards without loosing the bolt) The trigger was a long pivoted iron bar beneath the stock and held the nut in a V shaped notch. When the trigger was pressed the nut was released and the bolt would shoot.



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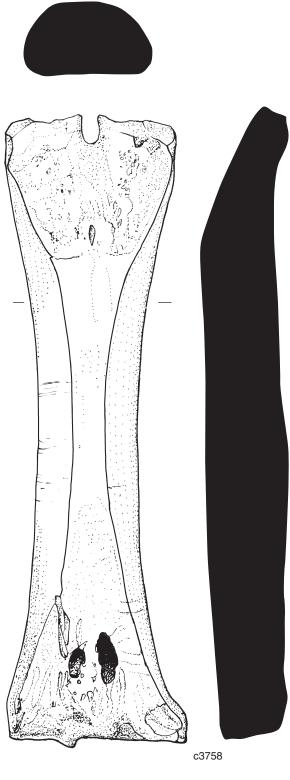
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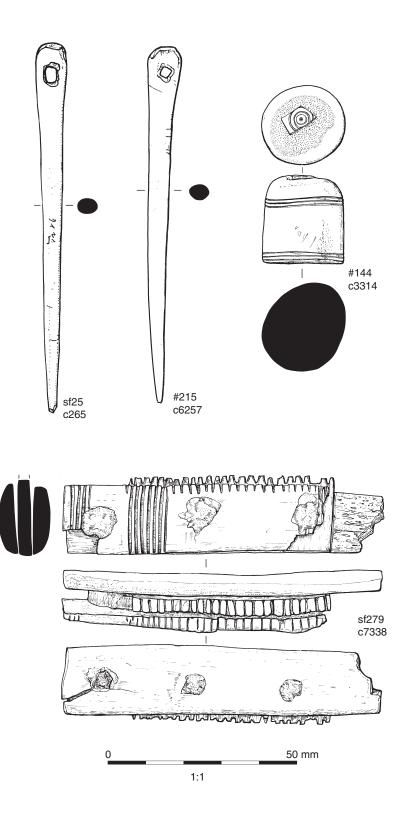
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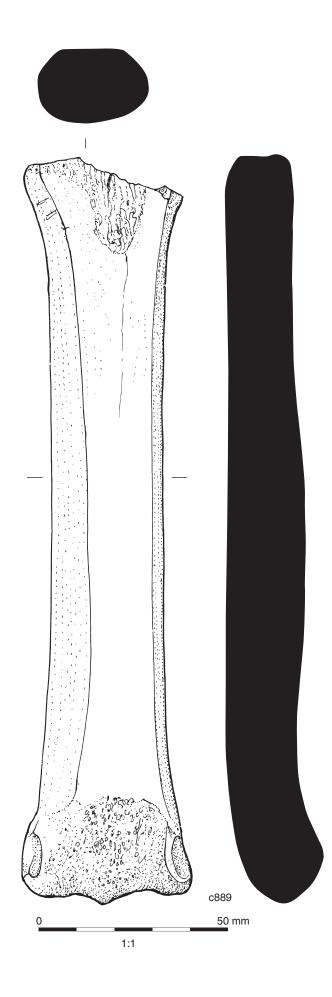


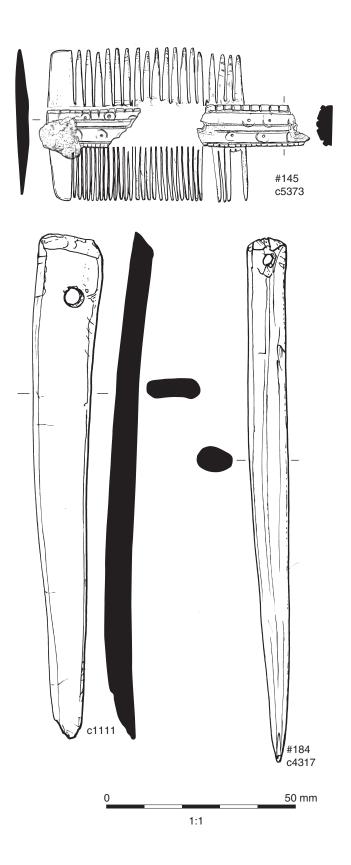
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High Medieval objects

