Assessment of the Non-ceramic finds from the Hadlow to High Haldon pipeline (HHH02)

Alan Vince

Ninety-one non-ceramic finds from fieldwork along the line of the Hadlow to High Haldon pipeline (Site Code HHH01) were submitted for identification and assessment (Table 1).

Table 1

Sitecode	СТР	GRAPHITE PMGL	STON		Grand Total
HHH01 26/1	3	3	1		4
HHH01 29/2			1		1
HHH01 29/3	4	1		5	9
HHH01 30/4			1		1
HHH01 30/5	,	I			1
HHH01 31/1	3	3	1		4
HHH01 32/7	,	I			1
HHH01 34/1			1		1
HHH01 36/4			1	10	11
HHH01 40/1			1		1
HHH01 41/1				5	5
HHH01 43/4			1	6	7
HHH01 44/1	,	I			1
HHH01 44/3	,	I			1
HHH01 45/1			1		1
HHH01 45/3			1		1
HHH01 45/7			1		1
HHH01 46/3			2		2
HHH01 47/1	2	2			2
HHH01 47/2				7	7
HHH01 48/1		5	3		8
HHH01 48/4			2		2
HHH01 48/7	,	I			1
HHH01 49/1			1		1
HHH01 49/5				1	1
HHH01 51/3	,	I			1
HHH01 53/1				5	5
HHH01 54/6			1		1
HHH01 56/1			1		1
HHH01 56/2	2	2			2

Sitecode	СТР	GRAI	PHITE PMG	L STON		Grand Total
HHH01 56/7		1		1		2
HHH01 58/1			1			1
HHH01 58/2				1		1
HHH01 58/3				1		1
Grand Total		26	1	24	39	90

They consist of clay tobacco pipes, graphite, post-medieval glass and stone. The only artefacts of Roman date are pieces of quern, from sites 36/4 and 43/4. The remainder are either not artefacts (mainly stone pebbles) or of post-medieval date (the glass and clay pipes).

Description

Clay Tobacco Pipes

Twenty six fragments of clay tobacco pipe were submitted for study, representing 25 pipes. The stem bore diameters were examined and on this basis the pipes were assigned to the 17th century, the 17th/18th century, and the 18th/19th century. Six stem fragments and one mouthpiece could not be dated and must be assigned a broad 17th/19th-century date. Three bowls were present. One of these is a plain spurred form of the type made in London in the 18th century (Atkinson and Oswald Type 25). The other two are mid 19th-century or later decorated bowls.

In two cases the fragments were noticeably abraded, and may therefore have been buried in a ploughsoil exposed to weathering. The pipes seem to indicate a scatter of activity along the pipeline with little signs of any concentration.

Table 2

Sitecode	Context	Nosh	NoV	Description	Part
HHH01 26/1	6244	1	1	117TH C	STEM
HHH01 26/1	6244	2	1	118TH/19TH C	STEM
HHH01 29/3	29050	1	1	117TH/18TH C	STEM
HHH01 29/3	6253	1	1	117TH C	STEM
HHH01 29/3	6252	1	1	118TH/19TH C	STEM
HHH01 29/3	6258	1	1	118TH/19TH C	STEM
HHH01 30/5	6025	1	1	118TH/19TH C	STEM
HHH01 31/1	6030	1	1	118 TH C (AO25)	BOWL
HHH01 31/1	6273	1	1	118TH/19TH C	STEM
HHH01 31/1	6279	1	1	118TH/19TH C	STEM
HHH01 32/7	6276	1	1	118TH/19TH C	STEM
HHH01 44/1	6055	1	1	118TH/19TH C	STEM

Sitecode	Context	Nosh	NoV	Description	Part
HHH01 44/3	6057	1	11	8TH/19TH C, IRON-STAINED	STEM
HHH01 47/1	6096	1	1L	17TH/18TH? ABRADED	STEM
HHH01 47/1	6092	1	1L	17TH/18TH? ABRADED	STEM
HHH01 48/1	6101	1	1M	10UTHPIECE	MOUTHPIECE
HHH01 48/1	6101	1	1		STEM
HHH01 48/1	6105	1	11	9 [™] C DECORATED	BOWL
HHH01 48/1	6106	1	1		STEM
HHH01 48/1	6108	1	1		STEM
HHH01 48/7	6116	1	1		STEM
HHH01 51/3	6133	1	1		STEM
hhh01 56/2	6214	1	10	ECORATED BOWL	BOWL
hhh01 56/2	6214	1	11	8TH/19 TH C	STEM
hhh01 56/7	6220	1	11	9 TH C	STEM

There is a hint of a chronological pattern in the distribution of the pipes (Table 3). 17th- and 18th-century pipes occur from sites 26/1 to 47/1 whilst the 19th-century examples are present from sites 48/1 onwards. This is, however, based on very small numbers and for sites 48/1 and later includes six undated stems.

Table 3

•				
Sitecode	17	18	19 ND	Grand Total
HHH01 26/1	1	2		3
HHH01 29/3	2	2		4
HHH01 30/5		1		1
HHH01 31/1		3		3
HHH01 32/7		1		1
HHH01 44/1		1		1
HHH01 44/3		1		1
HHH01 47/1	2			2
HHH01 48/1			1 .	4 5
HHH01 48/7				1 1
HHH01 51/3				1 1
hhh01 56/2		1	1	2
hhh01 56/7			1	1
Grand Total	5	12	3	6 26

Glass

Twenty four fragments of glass were recovered. They include two fragments of window glass and the remainder are from vessels (Table 4). A single piece of light green window glass was recovered. Such glass was used in the later medieval and post-medieval periods but only became common in vernacular buildings in the later 16th century and later. By the end of the 17th century clearer glass, with a light blue tinge, had replaced this green glass. A second fragment, from site 26/1, is in a similar material but could be either a vessel or a window fragment.

The remaining glass can be divided into dark green wine bottle glass, medicine phials and fineware vessels. The dark green bottle glass includes no certain examples of 17th or early 18th-century types although pieces from three sites are too small to identify (and are assumed here to be of mid 17th-century or later date). Four fragments of tall wine bottle were found. This form was first produced in the mid 18th century but continues to be made up to the present day.

Three fragments of free-blown phials were found. One is in a green glass and the other two in a blue-tinged glass. The former type was used in the later 17th and early 18th centuries and the latter type in the early to mid 18th century, after which time moulded vessels were ubiquitous. Two glass stoppers from moulded vessels were found, together with fragments of octagonal mould-blown bottles in brown and blue-tinged glass.

The fineware vessels include a blue moulded wine glass, two vessels identified on site (identifier unknown) as early 20th-century ink bottles and the base of an early 20th-century kilner jar. A fragment of a glass medallion, perhaps for use set into a window, was found. The object is composed of two layers of glass, one dark blue and the other colourless. A design has been etched through the blue glass. Although no close parallels are known to the author it appears to be of 19th or 20th century date.

Finally, two fragments of glass slag were found. Such material was commonly used as hard core and road surfacing but is impossible to date from visual study.

Table 4

Sitecode	Contex	t subfabric	Form	Nos	h Description	Part
HHH01 26/1	6264	LT GREEN	VESS?		SQUASHED BASE OF VERY LARGE VESSEL OR SPUN 1WINDOW?	BS
HHH01 29/2	6245	LT GREEN	STOPPER		1	BS
HHH01 30/4	6269	LT GREEN	STOPPER		1MOULD-BLOWN	BS
HHH01 31/1	6110	BROWN	ВОТ		MOULD-BLOWN OCTAGONAL 1BOTTLE	BS
HHH01 34/1	6281	LT BLUE	ВОТ		MOULD-BLOWN OCTAGONAL 1BOTTLE	В
HHH01	36089	DK GREEN	BOT		1	BS

Sitecode	Contex	t subfabric	Form	Nosh	n Description	Part
HHH01 40/1	6043	DK GREEN	ВОТ		1	BS
HHH01 43/4	6404	DK GREEN	TALL BOT		1	BS
HHH01 45/1	6066	BLUE	WINE GLASS		1MOULDED	BS
HHH01 45/3	6076	LT GREEN	ВОТ		1	BS
HHH01 45/7	6078	DK GREEN	ВОТ		1	BS
					MOULDED JAR BASE WITH	5 1
HHH01 46/3	6086	LT GREEN	JAR		MONOGRAM, POSSIBLY 'HGE AND '21.93'. IDENTIFIED ON 1SITE AS A C.1930 KILNER JAI	
HHH01 46/3	6090	LT GREEN	WIND		1	BS
HHH01 48/1	6104	DK GREEN	PHIAL	,	1	В
HHH01 48/1	6108	COLOURLESS	ВОТ		1SIMILAR TO 6109	R
HHH01 48/1	6109	LT GREEN	BOTTLE		IDENTIFIED ON SITE AS A 11900-1930 INK BOTTLE	BS
HHH01 48/4	6112	DK GREEN	WASTE	2	2SLAG LUMPS	BS
HHH01 49/1	6120	LT BLUE	PHIAL		1	В
hhh01 54/6	6188	LT BLUE	PHIAL		1	BS
hhh01 56/1		DK GREEN	TALL BOT		1	BS
hhh01 56/7	6220	DK GREEN	TALL BOT		1	BS
HHH01 58/2	6232	DK GREEN	TALL BOT		1	BS
HHH01 58/3	6234	CLEAR AND BLUE	WINDOW		LAYER OF BLUE GLASS ETCHED AWAY TO PRODUC! MEDALLION (DESIGN UNCLEAR);LOOKS 19TH/20TH 1C	

There is possible evidence from the glass for a chronological pattern in its distribution, with the earlier pieces coming from sites 26/1 to 48/1. However, later material is scattered along the length of the pipeline (Table 5).

Table 5

Sitecode	16.2 1	7.2 17.3	18.2 19	20	Grand Total

HHH01 26/1	1							1
HHH01 29/2					1			1
HHH01 30/4					1			1
HHH01 31/1					1			1
HHH01 34/1					1			1
HHH01 36/4		1						1
HHH01 40/1		1						1
HHH01 43/4				1				1
HHH01 45/1					1			1
HHH01 45/3					1			1
HHH01 45/7		1						1
HHH01 46/3	1					1		2
HHH01 48/1		1				2		3
HHH01 48/4							2	2
HHH01 49/1			1					1
hhh01 54/6			1					1
hhh01 56/1				1				1
hhh01 56/7				1				1
HHH01 58/2				1				1
HHH01 58/3						1		1
Grand Total	2	4	2	4	6	4	2	24

Graphite

The graphite rod from an electric battery cell was found. It is probably of later 19th or 20th-century date.

Stone

Thirty-nine fragments of stone were submitted for identification. Of these, 25 were unworked pebbles with rounded edges. Without detailed knowledge of the geology of each site it is impossible to say whether they were simply eroded fragments of bedrock, detrital pebbles from quaternary deposits or had been brought to site for use. Four fragments from site 43/4 were angular blocks. Three of these were visually identified as Reigate/Merstham stone, which was extensively quarried in the medieval period for use as building stone. However, Site 43/4 is predominantly of Romano-British date. A fragment of a shelly limestone from the same site is of similar size to the pebbles and may be a natural pebble.

Fragments of two or three rotary querns were recovered, from sites 36/4 and 43/4. They include fragmentary Mayen lava from contexts 36069 and 36070 which may come from a single quern and fragments of Greensand querns from contexts 36070 and 43047. The latter are both worthy of

illustration. The beehive form of the Greensand querns is one that was used in the Iron Age into the Roman period whereas Mayen lava querns were probably first imported to Britain in quantity in the Roman period and became the standard type used in eastern and south-eastern England from the later Roman period onwards.

Table 6

Sitecode	BLOCK	GEOL I	ROTARY QUERN	Grand Total
HHH01 29/3		5		5
HHH01 36/4		1		9 10
HHH01 41/1		5		5
HHH01 43/4	2	1 1		1 6
HHH01 47/2		7		7
HHH01 49/5		1		1
HHH01 53/1		5		5
Grand Total	4	1 25	1	10 39

Assessment

The rotary querns are intrinsically interesting objects and it would be possible to establish the strata from which they were quarried through thin-section analysis and submission of the sections to specialists actively working on ancient stone sources in the southeast (Prof David Peacock at Southampton University and Dr Andrew Middleton at the British Museum). The significance of the Reigate/Merstham stone depends on its archaeological context. If it is stratified in Roman levels it should be investigated further. Otherwise not. The clay pipes and glass do not require any further work and do not indicate anything other than a casual use of the pipeline area during the 17^{th} century and, especially, later.

Appendix

Sitecode	Contex	ct class	cname	subfabric	Form	Nosh N	oV Actio	n Description	Part
HHH01 26/1	6244	СТР	СТР		PIPE	1	1	17TH C	BS
HHH01 26/1	6244	СТР	СТР		PIPE	2	1	18TH/19TH C	BS
HHH01 26/1	6264	PMGL	PMGL	LT GREEN	VESS?	1	1	SQUASHED BASE OF VERY LARGE VESSEL OR SPUN WINDOW?	BS
HHH01 29/2	6245	PMGL	PMGL	LT GREEN	STOPPER	1	1		BS
HHH01 29/3	29050	СТР	СТР		PIPE	1	1	17TH/18TH C	BS
HHH01 29/3	29068	STON	STON	LIMESTONE WITH IRON-RICH NODULES SHELL,+ QUARTZ	S, GEOL	2	2	NATURALLY ROUNDED PEBBLES	BS
HHH01 29/3	29084	STON	STON	CHERT	GEOL	1	1	NATURALLY ROUNDED PEBBLE	BS
HHH01 29/3	29086	STON	STON	CHERT	GEOL	2	2		BS
HHH01 29/3	6252	СТР	СТР		PIPE	1	1	18TH/19TH C	BS
HHH01 29/3	6253	СТР	СТР		PIPE	1	1	17TH C	BS
HHH01 29/3	6258	СТР	СТР		PIPE	1	1	18TH/19TH C	BS
HHH01 30/4	6269	PMGL	PMGL	LT GREEN	STOPPER	1	1	MOULD-BLOWN	BS

Sitecode	Contex	t class	cname	subfabric	Form	Nosh N	oV Actic	on Description	Part
HHH01 30/5	6025	СТР	СТР		PIPE	1	1	18TH/19TH C	BS
HHH01 31/1	6030	СТР	СТР		PIPE	1	1	AO25	BS
HHH01 31/1	6110	PMGL	PMGL	BROWN	вот	1	1	MOULD-BLOWN OCTAGONAL BOTTLE	BS
HHH01 31/1	6273	СТР	СТР		PIPE	1	1	18TH/19TH C	BS
HHH01 31/1	6279	СТР	СТР		PIPE	1	1	18TH/19TH C	BS
HHH01 32/7	6276	СТР	СТР		PIPE	1	1	18TH/19TH C	BS
HHH01 34/1	6281	PMGL	PMGL	LT BLUE	ВОТ	1	1	MOULD-BLOWN OCTAGONAL BOTTLE	В
HHH01 36/4	36069	STON	STON	LAVA	ROTARY QUERN	6	1		BS
HHH01 36/4	36070	STON	STON	GREENSAND	ROTARY QUERN	1	1DR	TOPSTONE FROM ROTARY QUERN;UNDERSIDE DRESSED BUTG NOT WORN;DELIBERATE? NOTCH IN UNDERSIDE FOR HANDLE?	BS
HHH01 36/4	36070	STON	STON	LAVA	ROTARY QUERN	2	1		BS
HHH01 36/4	36072	STON	STON	WHITE FINE-GRAINE SST;WHITE CLAY? CEMENT	D GEOL	1	1		BS
HHH01 36/4	36089	PMGL	PMGL	DK GREEN	вот	1	1		BS

Sitecode	Contex	t class	cname	subfabric	Form	Nosh No	oV Actio	n Description	Part
HHH01 40/1	6043	PMGL	PMGL	DK GREEN	ВОТ	1	1		BS
HHH01 41/1	41057	STON	STON	SHELLY LIMESTONE	GEOL	1	1		BS
HHH01 41/1	41057		STON	CHERT WITH ROUNDED HAEMATITE INCLUSIONS	GEOL	3	3		BS
HHH01 41/1	41057	STON	STON	WHITE FINE-GRAINED SANDSTONE WITH HAEMATITE STAINI) GEOL	1	1		BS
HHH01 43/4	43003	STON	STON	REIGATE/MERSTHAM	BLOCK	3	1	NO SIGNS OF TOOLING BUT A FRESH BLOCK, SO EITHER QUARRIED OR DISTURBED NATURAL	BS
HHH01 43/4	43047	STON	STON	SHELLY LIMESTONE;SOME SILICA REPLACEMENT?	BLOCK	1	1	NO SIGNS OF WORKING	BS
HHH01 43/4	43047	STON	STON	SHELLY LIMESTONE	GEOL	1	1	NATURALLY ROUNDED PEBBLE	BS
HHH01 43/4	43047	STON	STON	GREENSAND	ROTAR QUERI		1DR	TOO HEAVY FOR SCALES!; ROTARY QUERN	PROF
HHH01 43/4	6404	PMGL	PMGL	DK GREEN	TALL BOT	1	1		BS
HHH01 44/1	6055	СТР	СТР		PIPE	1	1	18TH/19TH C	BS
HHH01 44/3	6057	CTP	CTP		PIPE	1	1	18TH/19TH C, IRON-STAINED	BS

Sitecode	Contex	t class	cname	subfabric	Form	Nosh N	loV Actio	n Description	Part
HHH01 45/1	6066	PMGL	PMGL	BLUE	WINE GLASS	5 1	1	MOULDED	BS
HHH01 45/3	6076	PMGL	PMGL	LT GREEN	вот	1	1		BS
HHH01 45/7	6078	PMGL	PMGL	DK GREEN	ВОТ	1	1		BS
HHH01 46/3	6086	PMGL	PMGL	LT GREEN	JAR	1	1	MOULDED JAR BASE WITH MONOGRAM POSSIBLY 'HGB' AND '21.93'. IDENTIFIED ON SITE AS A C.1930 KILNER JAR	
HHH01 46/3	6090	PMGL	PMGL	LT GREEN	WIND	1	1		BS
HHH01 47/1	6092	СТР	CTP		PIPE	1	1	L17TH/18TH? ABRADED	BS
HHH01 47/1	6096	СТР	СТР		PIPE	1	1	L17TH/18TH? ABRADED	BS
HHH01 47/2	47007	STON	STON	FINE-GRAINED SST WITH HAEM CEMENT	GEOL	2	2		BS
HHH01 47/2	47007	STON	STON	WHITE CHERT WITH HAEM VEINS AND STAIN	GEOL	5	5		BS
HHH01 48/1	6101	СТР	СТР		PIPE	1	1	MOUTHPIECE	MOUTHPIECE
HHH01 48/1	6101	СТР	СТР		PIPE	1	1		STEM
HHH01 48/1	6104	PMGL	PMGL	DK GREEN	PHIAL	1	1		В
HHH01	6105	CTP	СТР		PIPE	1	1	19TH-C DECORATED	BOWL

Sitecode	Contex	t class	cname	subfabric	Form	Nosh No	oV Actio	on Description	Part
48/1									
HHH01 48/1	6106	CTP	СТР		PIPE	1	1		STEM
HHH01 48/1	6108	CTP	СТР		PIPE	1	1		STEM
HHH01 48/1	6108	PMGL	PMGL	COLOURLESS	вот	1	1	SIMILAR TO 6109	R
HHH01 48/1	6109	PMGL	PMGL	LT GREEN	вот	1	1	IDENTIFIED ON SITE AS A 1900-1930 INP BOTTLE	(BS
HHH01 48/4	6112	PMGL	PMGL	DK GREEN	WASTE	2	2	SLAG LUMPS	BS
HHH01 48/7	6116	СТР	СТР		PIPE	1	1		STEM
HHH01 49/1	6120	PMGL	PMGL	LT BLUE	PHIAL	1	1		В
HHH01 49/5	49029	STON	STON	LIMESTONE WITH RECRYSTALLISED FRESHWATER GASTROPOD	GEOL	1	1	NATURALLY ROUNDED PEBBLE? POSSIBLE ARTIFICIAL U-SECTIONED GROOVE 10MM WIDE ON ONE FACE (UNLIKELY!); CEMENT IS RED (IRON- STAINED), EARTHY MICRITE	BS
HHH01 51/3	6133	CTP	СТР		PIPE	1	1		STEM
hhh01 52/3	6145	SLAG		SPARSE ROUNDED QUARTZ INCLUSION: >3.0MM	S TILE	1	1	OVERFIRED TILE WITH LIGHT GREEN GLASS COATING ON ALL SURFACES. SURFACE WORN.	BS
HHH01 53/1	53089	STON	STON	FINE-GRAINED MICACEOUS SANDSTONE	GEOL	1	1		BS

Sitecode Context		t class	cname	subfabric	Form	Nosh No	V Action	n Description	Part
HHH01				FINE-GRAINED SANDSTONE;QUART AND IRON	ΓZ				
53/1	53091	STON	STON	VEINS/PANNI	GEOL	2	2		BS
HHH01 53/1	53093	STON	STON	CHERT	GEOL	1	1		BS
HHH01 53/1	53093	STON	STON	FINE-GRAINED SANDSTONE	GEOL	1	1		BS
nhh01 54/6	6188	PMGL	PMGL	LT BLUE	PHIAL	1	1		BS
hhh01 56/1		PMGL	PMGL	DK GREEN	TALL BOT	1	1		BS
nhh01 56/2	6214	СТР	СТР		PIPE	1	1	18TH/19TH C BORE DIAMETER	BS
nhh01 56/2	6214	СТР	СТР		PIPE	1	1	DECORATED BOWL	BOWL
nhh01 56/7	6220	СТР	СТР		PIPE	1	1	19TH-CENTURY BORE DIAMETER	BS
nhh01 56/7	6220	PMGL	PMGL	DK GREEN	TALL BOT	1	1		BS
HHH01 58/1	6226	GRAPHIT	EGRAPHIT	E	CORE	1	1	THE CORE FROM AN ELECTRIC BATTERY;MOD	BS
HHH01 58/2	6232	PMGL	PMGL	DK GREEN	TALL BOT	1	1		BS
HHH01 58/3	6234	PMGL	PMGL	CLEAR AND BLUE	WIND	1	1	LAYER OF BLUE GLASS ETCHED AWAY TO PRODUCE MEDALLION (DESIGN UNCLEAR);LOOKS 19TH/20TH C	, BS