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TRUMP INTERNATIONAL GOLF LINKS SCOTLAND

Report on Photographic and Electronic Survey of Flint Scatters
on the championship golf course

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PROJECT SUMMARY SHEET

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<i>Parish</i>	BELHELVIE
<i>Council</i>	ABERDEENSHIRE
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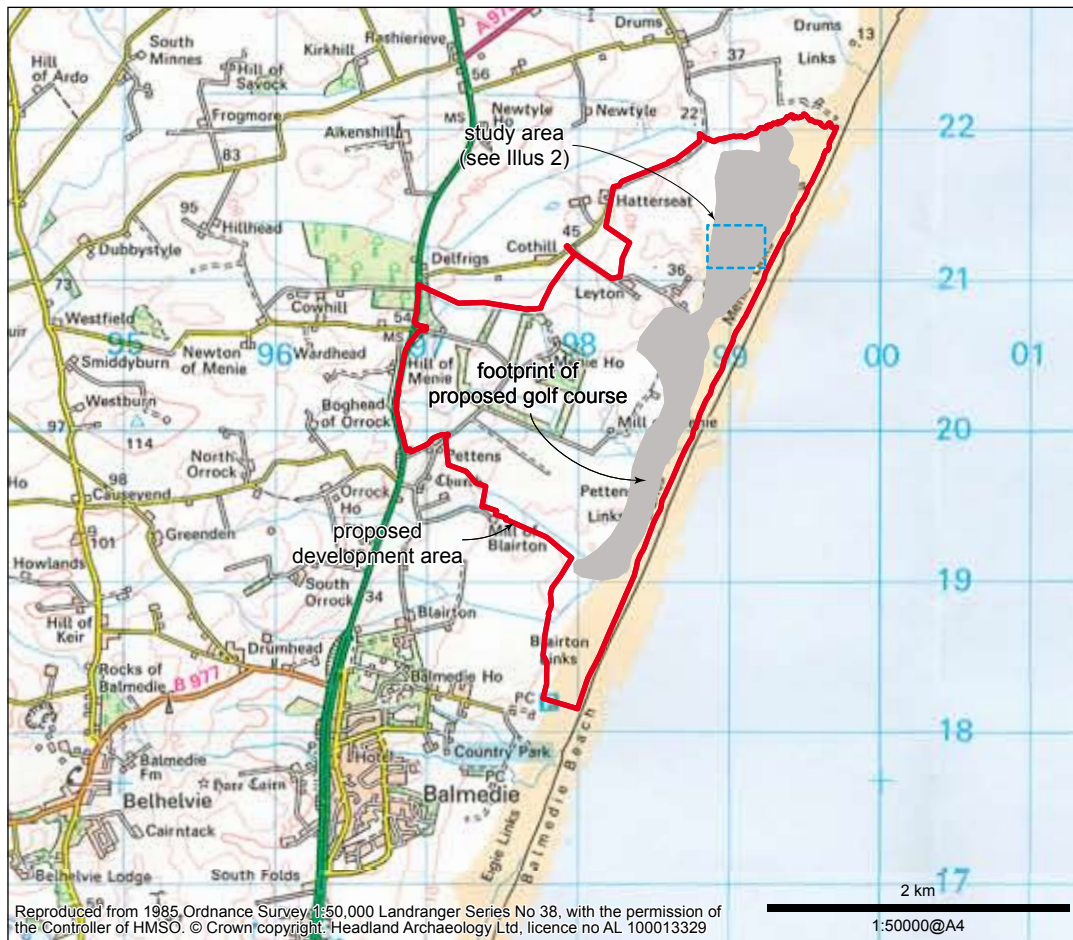
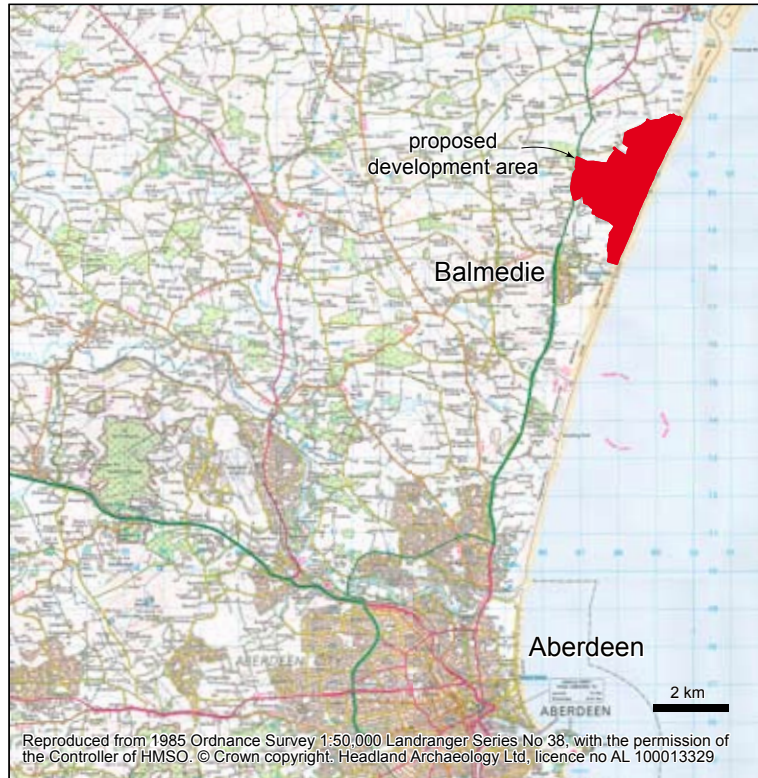
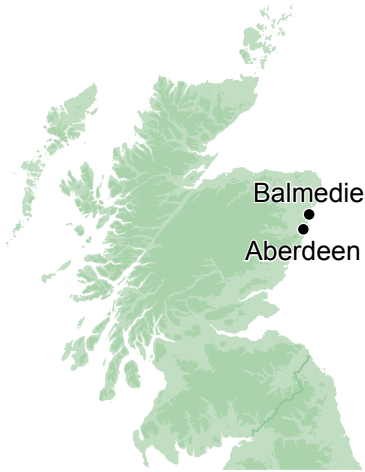
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Illus 1
Trump International Links Golf Course - location plan

TRUMP INTERNATIONAL GOLF LINKS SCOTLAND

Report on Photographic and Electronic Survey of Flint Scatters on the championship golf course

by *Magnar Dalland & Julie Lochrie*

A photographic and electronic survey was carried out of two flint scatters previously recorded in an area to be affected by the construction of the proposed links golf course at Menie Estate, Aberdeenshire. The flint scatters were sampled for the study of the source material used and technology applied in the making of the artefacts. The results show that the assemblage is likely to be multi phased but most of the indicators point towards an earlier prehistoric assemblage. There is good evidence from the level of blades, blade core and backed blade for Mesolithic activity. A fossil pebble storm beach was recorded during this survey probably dating to the 7th millennium BP. Some flint nodules were noted amongst the beach pebbles indicating that this may have been the source of flint that was exploited locally resulting in the flint scatters.

1 INTRODUCTION

This is a report on a photographic and electronic survey of two flint scatters previously recorded in an area to be affected by the construction of the international championship golf course at the proposed golf and resort development at Menie Estate, Aberdeenshire.

The development area is situated some 8km to the north of Aberdeen at Menie estate (NGR NJ 98 20) immediately to the north of Balmedie (Illus 1). The area is roughly D-shaped facing the North Sea to the east. The development area covers 452 hectares and extends just less than 4.3km along the coast and over 2km inland to the west.

The two flint scatters were first surveyed during fieldwork carried out by Headland in June 2009.

They were located in deflation surfaces at the foot of sand dunes at either sides of the dune slack (Illus 2). Flint Scatter 1 is situated on the west side of the fore-dunes centred on NJ 9920 2113, some 480m east-north-east of the Coast Guard Lookout Station at Hermit Point on top of the old raised beach platform. It covers just over 2900m², extends some 100m north to south and is on average 30m wide. Flint Scatter 2 lies on the west side of the dune slack at the foot of the hind dunes, some 300m to the north-east of Hermit Point at NJ 9898 2122. This scatter is slightly smaller, covering 2700m² and extending some 130 m along a vehicle track at the foot of the dunes.

Parts of these flint scatters would be affected by the construction of the golf course and Aberdeenshire Council Archaeology Service requested therefore that a more detailed survey of the scatters was carried out prior to any construction work.

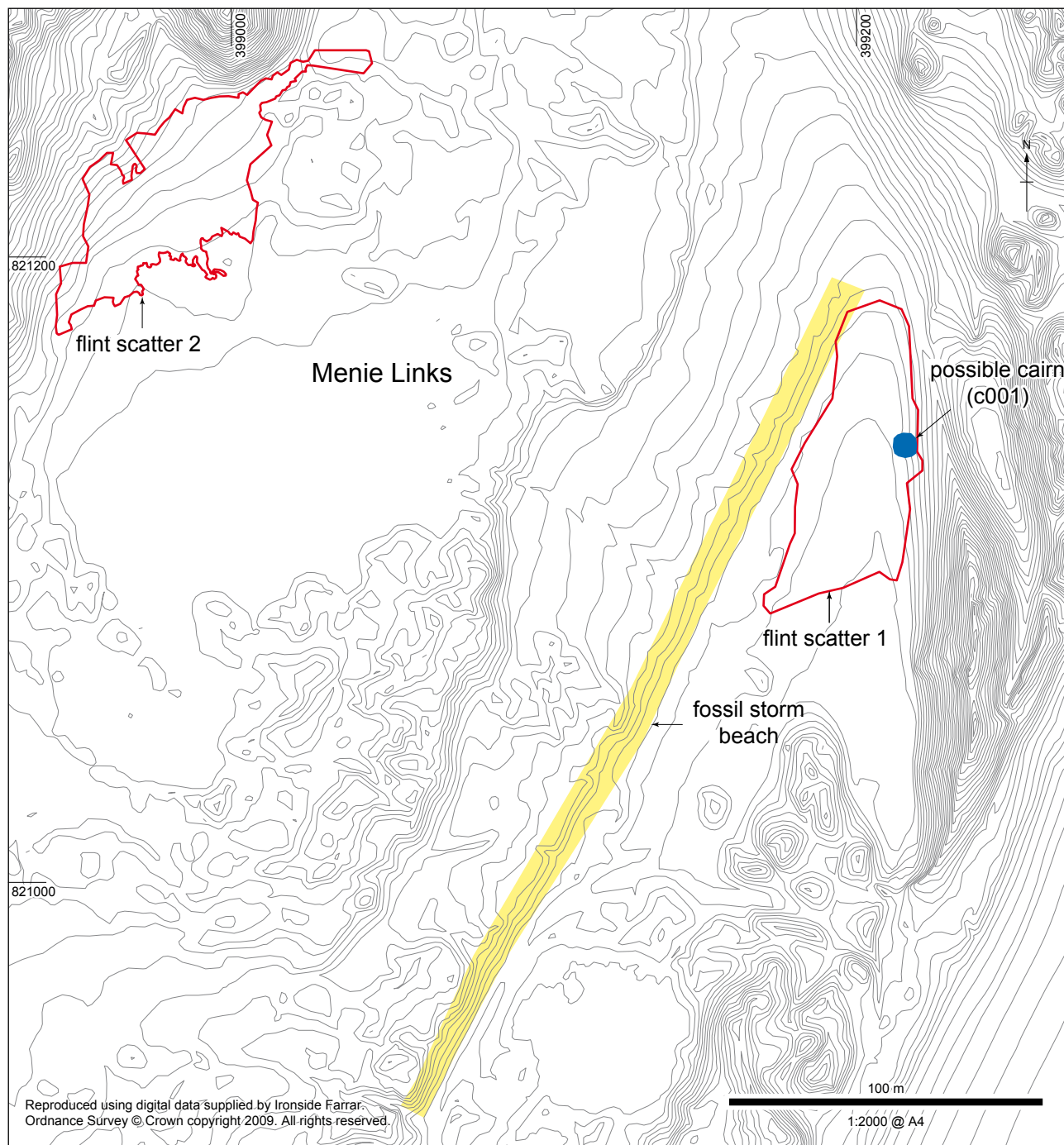
The work was carried out at the end of October 2009 in accordance with a written scheme that was prepared by

Headland and based on requirements outlined by Moira Greig of Aberdeenshire Council Archaeology Service.

2 METHODS

The photographic survey was intended to record concentrations of chipped stone within the scatters. After visual analysis it became clear Flint Scatter 2 was evenly distributed with few clear concentrations. Attempts were made to record part of the scatter by photographing a 1m square of the surface using a planning frame as scale (Illus 3). This conveyed little information other than the relative sparseness. It was clear that this method of photography was not sufficiently detailed to identify individual worked flints. The large extent of the scatter and sparseness of distribution meant that conveying the characteristics of the flint would require several thousand photographs. An alternative method was therefore adopted that would still record the distribution of flint within the scatter without using detailed photography. To begin with the scatters were summarily examined and each instance of chipped stone within the scatter was marked with a white plastic plant tag. This provided a visual which made it feasible to create a photographic record of the distribution (Illus 4). Having marked all chipped stone within the scatter its extent was re-surveyed. The scatter was then photographed from a number of positions with the precise location and direction of each photograph being recorded.

In addition to the photographic survey, and based upon requirements outlined by Aberdeenshire Council Archaeology Service, a sample of the lithics were collected for study. No intrusive work was to take place and the sample removed was to be minimal. Scatter 2 covered a



Illus 2

Detailed contour map of the area of Flint Scatters 1-4 and old storm beach

large area which had already been marked in advance of the photographic survey. As the chipped stone could not be systematically collected in its entirety a representative example was hand-collected. A collection bias is likely and the small sample size will limit any quantitative analysis

Before Flint Scatter 1 had been recorded, the weather conditions worsened. Strong winds and heavy overnight rain caused flooding of the south end of the scatter (Illus 5), while the north end became largely buried under sand carried down from the north-west by flood water (Illus 6). It became meaningless to record the flint only within the small sections that were still unaffected by the weather.

Still a small number of struck flints were collected from exposed areas within small stream beds.

3 RESULTS

The extent of Flint Scatters 2 did not change significantly following the detailed survey. The struck flints were located within a thin deflation horizon less than 2 cm thick. At the north-east end of the scatter the track had cut a small section through the underlying deposits exposing what appeared to be two buried ground horizons separated by



Illus 3

Detail from southwest part of Flint Scatter 2. From NW

a thin deposit of sand. The section was straightened and recorded. It is clear from the section that the flint scatter is sitting on deposits of windblown sand and is not related to the buried ground horizons (Illus 7).

In addition to the two known flint scatters two smaller flint concentrations were recorded during the survey (Illus 2). Flint Scatter 3 comprised a few scattered flints within an area of some 70 m² in and around the vehicle track some 25 m to the northeast of Flint Scatter 2. A fourth flint scatter was discovered within a 75m long segment of the vehicle track some 120 m to the southwest of Flint Scatter 1.

Table 1 provides a summary of the flaked stone collected from Scatter 1 and from the cairn, which was located within the scatter. Table 2 summarises the flaked stone collected from Scatter 2. A total of 217 pieces were collected, 38 from Scatter 1 and 179 from Scatter 2.

Table 1

Assemblage Summary; Scatter 1 & Cairn

Type	Flint	Quartzite	Total
Debitage			
Flakes	13	2	15
Blades	4	–	4
Chip	7	–	7
Total Debitage	(24)	(2)	(26)
Cores			
Bipolar core	9	–	9
Multi-Platform Core	1	–	1
Split Pebbles	2	–	2
Total Cores	(12)	–	(12)
TOTAL	36	2	38

Debitage:	Pieces that have not undergone any secondary modification (retouch)
Flakes:	Detached piece with one identifiable ventral surface
Blades:	A flake with 2:1 height to width ratio
Chunk:	A large indeterminate piece with no clear ventral surface
Chip:	Any flake or indeterminate piece <10mm
Core:	Artefact with only dorsal surfaces, less than three removals is a split pebble
Tools:	Any piece with secondary modification (retouch)
Pieces too small to study (<4mm) and any natural pebbles were omitted.	

Table 2

Assemblage Summary; Scatter 2

Type	Flint	Chalcedony	?	Total
Debitage				
Flakes	103	2	–	105
Blades	25	1	1	27
Chip	7	–	–	7
Indeterminate pieces	3	–	–	3
Total Debitage	(138)	(3)	(1)	(142)
Cores				
Bipolar core	29	–	–	29
Blade core	1	–	–	1
Single platform core	2	–	–	2
Total Cores	(32)	–	–	(32)
Tools				
Backed Blade	1	–	–	1
Scrapers	2	–	–	2
Retouched Distal Tip	1	–	–	1
Total Tools	(4)	–	–	(4)
Pebble	(1)	–	–	(1)
TOTAL	175	3	1	179

Debitage:	Pieces that have not undergone any secondary modification (retouch)
Flakes:	Detached piece with one identifiable ventral surface
Blades:	A flake with 2:1 height to width ratio
Chunk:	A large indeterminate piece with no clear ventral surface
Chip:	Any flake or indeterminate piece <10mm
Core:	Artefact with only dorsal surfaces, less than three removals is a split pebble
Tools:	Any piece with secondary modification (retouch)
Pieces too small to study (<4mm) and any natural pebbles were omitted.	



Illus 4
Flint Scatter 2 seen from its NE end. From NE

3.1 Raw materials

Scatter 1 & Cairn

Thirty six of the 38 pieces from Scatter 1 are flint. The other two include two primary flakes of a dark grey quartzite recovered from [001] B2 of the cairn. These may be accidentally struck from the stone of the cairn and no further evidence was found for quartzite exploitation.

The flint ranges through various shades of brown although black and orange examples are also present. Grey flint occurred to a very small extent and those pieces were often patinated and not necessarily indicative of original colour. The quality was mostly medium grained although both finer and coarse examples were used. Quite a few of the examples, including medium and finer grained, had flaws running through them. All cortex, where present, was abraded/rolled. Pebble size is generally small although this scatter contained some larger pebbles than those from scatter 2. The largest piece collected from both survey areas was a core (Cat. No. 11) from Scatter 1 which measured 99x59x37mm.

The small pebbles and abraded cortex indicate beach or river deposits as a likely source. The predominantly brown variants are also typical of local material from the north-east of Scotland (Saville 1994, 62). The coastal location of the site makes local collection of beach pebbles most likely (Saville 1994, 57). Whilst recording the scatter it was noted that a possible fossil storm beach was located running parallel to the current shoreline and located by Scatter 1 (see Other discoveries). It is possible this provided the source for beach flint.

In addition to local beach flint there are many sources of gravel flint in the north-east of Scotland. There are several gravel resources including Boddam Den, Skelsmuir Hill (Saville 1994; 2005a), Delgaty, Fyvie, Hatton, Moreseat, Mount Pleasant and Windyhills (Wickham-Jones 1977-8,

9). These resources are slightly further north and further inland. As so much of this material is similar it is difficult to provenance it with any certainty. The flints found at Menie are from small abraded pebbles and it is unlikely they would have been sourced from further afield when similar material would be collected locally. The few larger examples still share many characteristics with the smaller pebbles and are most likely rarer larger examples derived from the same source.

The Buchan ridge gravel which is located further north, south of Peterhead, has been identified as a source for export during prehistory. It was exploited more heavily from the Neolithic/early Bronze Age onwards (Saville 1994; 2005a). The site at Boddam Den focused on the primary selection, preparation and exportation of flint from the area (Saville

1994; 2005a). This flint is light grey in colour and average pebble size is 100mm, although it does occur larger (Saville 2005a, 4). They still contain many flaws but are a good source for slightly larger, better quality flint. There is no substantial evidence for its export to Menie.

Scatter 2

The raw material from Scatter 2 is very similar to the material from Scatter 1. There are 177 pieces of flint, three pieces of chalcedony (or in one case possibly banded agate) and a blade of unidentified material. The chalcedony occurs in small numbers and is likely from locally collected pebbles.

The flint was very similar to that collected from Scatter 1; mostly medium grained, small pebbles which had abraded cortex. The flint mostly occurred in variants of brown with some black and orange examples. The material from Scatter 2 is similarly sourced from beach pebble flint that would have been easily collected in the area. The use of beach pebble flint and locally available chalcedonies shows the exploitation of local resources. There is no evidence for raw material being imported into the area. This may indicate activity before a period when export and import was intensified.

3.2 Technology

Primary Technology

Scatter 1 & Cairn

Due to the weather conditions a thorough analysis and collection for Scatter 1 was not possible. A small number of examples were collected where visible. This amount to 38 pieces, two quartzite and 36 flint. No evidence for secondary technology was observed or collected within this study area. The material amounted to ten cores, two split pebbles, 15 flakes, four blades and seven chips.

**Illus 5**

Flood water covering south half of Flint Scatter 1. From NE

The highest percentage of material type from Scatter 1 was cores and split pebbles. Nine of the ten cores were bipolar. This is when an anvil stone is used to support the nodule. The force of percussion strikes the top but the contact with the anvil drives the force back through from the bottom. These cores have no formal platform, lots of crushing, and are typically pillow shaped in profile. The examples from Scatter 1 usually have two planes of removal at opposing sides which means they have been turned 180°. They are often bifacial and on occasion have more planes of removal. Two split pebbles were recovered and many more noted before the site was covered by sand or water. A split pebble is a nodule with less than three removals.

There are also a sizable number of blades in the collection. Such a small sample was collected from Scatter 1 it is difficult to say if these blades are part of an active blade industry. Blade technology was certainly taking place. Three of the blades that were collected are intentional; one is a soft hammer blade however the proximal end is missing on the others. The dorsal sides show longitudinal ridges created by the creation of previous blades which indicates deliberate and repeated blade production.

Where identifiable all flakes, apart from Cat. No. 12, are bipolar. Cat. No. 12 is a hard hammer platform flake. This bias in reduction method reflects the cores and seems to be a true representation. There is also a freehand hard hammer core and evidence for soft hammer reduction from the blades.

The absence of tools or roughouts and large percentage of cores indicates more intensive primary technology with very little secondary modification. There

availability of local beach pebbles and the number of split pebbles and cores indicate that this was a well-exploited primary resource area. The splitting of pebbles may indicate testing of the material for its suitability for flake/blade production.

Scatter 2

The debitage retrieved from Scatter 2 includes 103 flakes, 25 blades, seven chips and three indeterminate pieces. In addition to these 32 cores were collected.

This sample is larger and shows a similar trend to Scatter 1. There are a large number of cores. Most are bipolar (see Scatter 1) and have examples with a few planes of reduction and others with multiple planes. They also occur in different sizes and some with remaining cortex while some have none at all. .

Scatter 2 also has a platform core with some bipolar removals (Cat. No. 73). This may have been done in an attempt to use all the material available even when the core had become unwieldy. Many of the pebbles were small or had flaws but were still used regardless. Clearly all material was important and could be used. A single conical core found on site (Cat. No. 74) is well executed and the only one collected of its type. This core was made on fairly fine-grained honey brown flint, despite this there is a circular flaw running through the piece. This core was made for the purpose of blade production and has been used with soft hammer percussion. This core is Mesolithic in date. The blades in the collection are part of a deliberate blade strategy and these are also Mesolithic.

Like Scatter 1 most of the flakes are bipolar although there are some hard and soft hammer examples.

**Illus 6**

Flood water sediments covering N end of Flint Scatter 1. From SE



Illus 7

Section through two possible ground horizons below deflation horizon at northeast end of Flint Scatter 2. From E

Secondary Technology

No tools were retrieved from Scatter 1 but it is difficult to say whether this is a true bias or due to the lack of systematic retrieval. There is clearly a Mesolithic presence and it may be that the smaller retouched pieces from this period were simply missed.

The sample of finds from Scatter 2 included four retouched pieces (Cat No. 191–194). These are a backed blade, two scrapers and an edge-retouched distal tip. The only one which is datable is the backed blade (rod) (Cat. No.191) which is Mesolithic in date. It has abrupt retouch along the left lateral. The tip and proximal end is missing.

Scraper (Cat.No.192) is sub-circular with abrupt retouch around the left and distal edges. It is not chronologically diagnostic. Both distal tip Cat. No. 194 and scraper Cat. No. 193 have very minimal retouch. The distal tip (Cat. No. 194) is a small honey brown triangle with alternate edge retouch. Scraper (Cat. No.193) is a large burnt bipolar flake with some semi-abrupt retouch along on of the lateral edges. The burning has caused crazing and potlid fractures which make the retouch difficult to analyse. Scrapers are often the most numerous tool in an assemblage and are difficult to date unless they are a particularly diagnostic type. The examples here are not particularly diagnostic

4 OTHER DISCOVERIES

4.1 Fossil storm beach

Although the severe weather prevented a detailed recording of Flint Scatter 1, it provided an opportunity to observe how severe weather affected the topography of the dune landscape. It quickly became clear that the base of the dune slack was not very permeable as ponds were rapidly forming within slight hollows within the area. The low permeability of the ground also resulted in the formation of small streams of floodwater leading water from the north-west into a large pond in the area of Flint Scatter 1. The flood water cut deep into the sand in places and exposed deposits of beach pebbles that had

been covered by a layer of windblown sand (Illus 8). On closer inspection the beach pebbles appeared to coincide with the presence of a low linear break of slope aligned parallel with the present beach. The feature is not very clear on the ground (Illus 9), but can be clearly seen on an aerial photograph of the area (Illus 10), and is also visible on the detailed contour map made of the area (Illus 2) extending in a straight line for some 300m towards the southwest. The contours indicate that the base of the slope is at 5 masl, with the top being between 6.5 and 7 masl. The feature appears to be made from shingle and is most likely to be a fossil storm beach.



Illus 8

Beach shingles exposed in stream bed. From SE

4.2 Wall

A stone wall was recorded in the hind dunes to the east of Flint Scatter 2 (Illus 2). The wall was aligned north-east to south-west and was exposed over a distance of 5.8m. It appeared to be buried in sand at both ends. Only the east side of the wall was exposed and it was up to 1.1m high (Illus 11).

5 DISCUSSION

The flint scatter areas were located while looking for specific sites within the area of the 10th and 18th hole of the golf course. Previous walkovers had identified a number

**Illus 9**

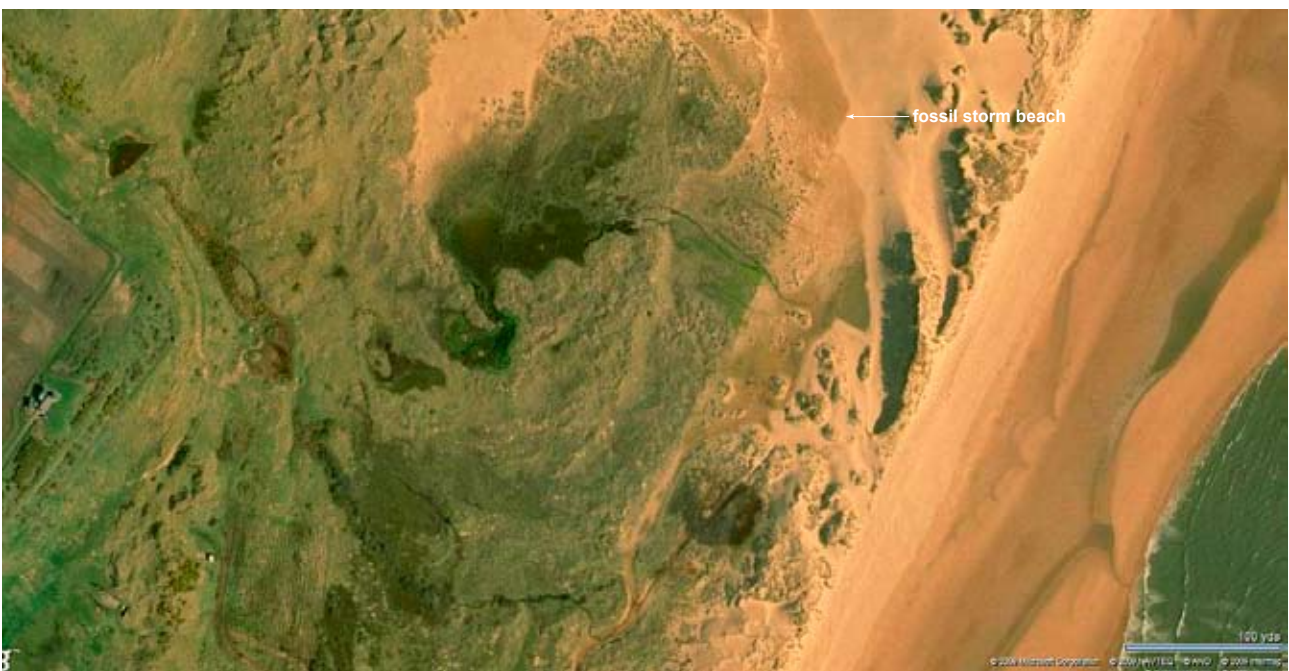
View along shallow ridge W of Flint Scatter 1. From NE

of specific locations where flints were present, which our survey identified as two fairly extensive flint scatters. The extents of the flint scatters clearly coincide with the areas of exposed deflation surfaces with vegetation cover and areas of recently deposited windblown and fluvial sands marking the edge of the scatters. The high winds and

heavy rain during the fieldwork clearly demonstrated this with further flints being exposed in expanding deflation areas, and part of flint scatters being buried beneath flood water deposits. The limit of the scatters is therefore not indicating the original area of flint working activity, but the part of this area that has become visible through exposure. A couple of smaller flint scatters (Scatters 3 and 4, Illus 2) identified to the north and south of the two main areas indicate that the area of prehistoric flint working extends beyond the two main areas recorded during our survey.

The assemblage has earlier prehistoric characteristics and there are diagnostic pieces which can be dated to the Mesolithic. The raw material indicates opportunistic resource collection (Saville 1994, 61). Exporting and importing both raw materials and tools did not intensify until later into the Neolithic/Early Bronze Age (Saville 1994, 61) until this time local resources were exploited. This includes other material types with a similar flaking quality, often within the siliceous family, in this case various chalcedonies.

The old shingle beach identified during our survey must have been formed at a time when the sea-level was higher than today and before the formation of the fore dunes between the fossil and present beach. Studies of the past sea levels in the area on the coast to the north of Aberdeen indicate that the shore line started to rise some 11,000 years ago. It started from a depth of 15m below present sea-level, culminating at about 2m above some 6000 to 7000 years ago, before gradually retreating to the present day shoreline (Shennan & Horton 2002). As the base of the fossil shingle beach is situated at 5m above sea level, it is likely to have formed as a storm beach around the time of the sea level maximum during the 7th millennium BP (S Lancaster pers comm.). As the sea retreated from

**Illus 10**

Old shingle beach seen on aerial photograph



Illus 11

Stone wall between dunes to the NW of Flint Scatter 2. From S

the maximum levels the sand on the former seabed was exposed and provided a source for the formation of the fore dunes along the present beach.

The material collected from Scatter 1 and 2 had an absence of evidence for secondary activity but had a wealth of evidence for primary technologies, production of blade blanks and the splitting of cores. The often-exhausted cores also show they have been well worked. Scatter 1 showed a higher instance of split pebbles and barely worked cores and may indicate an area with a different function from Scatter 2. This function may be the collation and testing of suitable material. This should be a tentative conclusion due to the lack of a strategic collection system and the low study group.

The assemblage showed bipolar reduction, platform reduction, blade core technology and soft and hard hammer percussion. The assemblage is likely multi phased but most of the indicators point towards an earlier prehistoric assemblage. There is good evidence from the level of blades, blade core and backed blade for Mesolithic activity.

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APPENDIX 1 SURVEY OF FLINTSCATTERS

1.1 Photographic register

Photo No.	Prints	Slides	Digital file name	Direction facing	Description
1-26	–	–	–	–	Pictures taken during initial survey in July 2009
27-41	–	–	–	–	Pictures from evaluation of 'cairn'
42	2	2	TIGL08-005-42.jpg	S	S half of Flint Scatter 2. General shot
43	1	1	TIGL08-005-43.jpg	E	E section of Flint Scatter 2
44	1	1	TIGL08-005-44.jpg	S	S section of Flint Scatter 2
45	1	1	TIGL08-005-45.jpg	SW	S section of Flint Scatter 2
46	1	1	TIGL08-005-46.jpg	SE	S section of Flint Scatter 2
47	1	1	TIGL08-005-47.jpg	N	S section of Flint Scatter 2
48	1	1	TIGL08-005-48.jpg	NW	NW section of Flint Scatter 2
49	1	1	TIGL08-005-49.jpg	NW	NW section of Flint Scatter 2
50	1	1	TIGL08-005-50.jpg	NE	SE section of Flint Scatter 2
51	1	1	TIGL08-005-51.jpg	N	N section of Flint Scatter 2
52	1	1	TIGL08-005-52.jpg	NW	SW section of Flint Scatter 2
53	1	1	TIGL08-005-53.jpg	N	NW section of Flint Scatter 2
54	1	1	TIGL08-005-54.jpg	NE	NE end of Flint Scatter 2
55	1	1	TIGL08-005-55.jpg	NE	NE end of Flint Scatter 2
56	1	1	TIGL08-005-56.jpg	NW	NW section of Flint Scatter 2
57	1	1	TIGL08-005-57.jpg	SE	SE section of Flint Scatter 2
58	1	1	TIGL08-005-58.jpg	SW	Flint Scatter 2 seen from its NE end
59	1	1	TIGL08-005-59.jpg	N	Detail from SW part of Flint Scatter 2
60	1	1	TIGL08-005-60.jpg	SE	Detail from SW part of Flint Scatter 2
61	1	1	TIGL08-005-61.jpg	NE	Detail from NE part of Flint Scatter 2
62	2	2	TIGL08-005-62.jpg	N	Stone wall between dunes to the NW of Flint Scatter 2
63	1	1	TIGL08-005-63.jpg	SW	S end of Flint Scatter 1 flooded
64	1	1	TIGL08-005-64.jpg	NW	Flood water sediments covering N end of Flint Scatter 1
65	1	1	TIGL08-005-65.jpg	N	Recently formed deflation surface E of Flint Scatter 1
66	1	–	TIGL08-005-66.jpg	E	Flint flake sitting on sand pillar formed by wind erosion in dune to the E of Flint Scatter 1
67	2	1	TIGL08-005-67.jpg	W	Section through two possible ground horizons below deflation horizon at NE end of Flint Scatter 2
68	–	1	TIGL08-005-68.jpg	S	Largely flooded Flint Scatter 1 seen from the N
69	–	–	TIGL08-005-69.jpg	S	Recently formed dune to the north of deflation surface
70	–	–	TIGL08-005-70.jpg	N	Small streams cut into shallow ridge W of Flint Scatter 1
71	–	–	TIGL08-005-71.jpg	NW	Beach shingles exposed in stream bed
72	–	–	TIGL08-005-72.jpg	SW	View along shallow ridge W of Flint Scatter 1

APPENDIX 2 LITHICS CATALOGUE

Location	SF No	Qty	Material	Type	P/S/I	Broken	Colour	Condition	Perc	Retouch	L	W	T
Scatter 1	001	1	Flint	Blade	I	n	Grey Blue	Patinated	Soft	n	28	10	3.5
Scatter 1	002	1	Flint	Blade	S	y	Blue Grey	Patinated	-	n	29	13	4
Scatter 1	003	1	Flint	Blade	I	y	Grey Blue	Patinated	-	n	24	5	2
Scatter 1	004	1	Flint	Core	-	n	Grey	Lightly Patinated	Bipolar	n	50	28.5	10
Scatter 1	005	1	Flint	Core	-	n	Honey Brown	Fresh	Bipolar	n	42.5	17.5	9.5
Scatter 1	006	1	Flint	Core	-	n	Dull Honey Brown	Abraded	Bipolar	n	42	21	17.5
Scatter 1	007	1	Flint	Core	-	n	Honey Brown	Fresh	Bipolar	n	35.5	21.5	21.5
Scatter 1	008	1	Flint	Core	-	n	Honey Brown	Fresh	Bipolar	n	46	27	17
Scatter 1	009	1	Flint	Core	-	n	Grey	Lightly Patinated	Bipolar	n	58.5	38	17
Scatter 1	010	1	Flint	Core	-	n	Blue Grey	Lightly Patinated	Bipolar	n	47	36	16
Scatter 1	011	1	Flint	Core	-	n	Blue Black and Brown	Lightly patinated	Hard	n	99	59	37
Scatter 1	012	1	Flint	Flake	I	n	Honey Brown	Fresh	Hard	?	24	29	4
Scatter 1	013	1	Flint	Flake	S	n	Honey Brown	Fresh	Bipolar?	n	33	39	8.5
Scatter 1	014	1	Flint	Split Pebble	-	n	Grey Brown	Fresh	Bipolar	n	39	32	12.5
Scatter 1	015	1	Flint	Split Pebble	-	n	Dull Honey Brown	Fresh	Hard	n	68	61	58
Scatter 2	016	1	Flint	Blade	I	y	Mottled Grey	Fresh	?	n	74.5	19	9
Scatter 2	017	1	Flint	Blade	I	y	Dull Honey Brown	Fresh	Soft	n	37	12	3
Scatter 2	018	1	Flint	Blade	I	y	Brown	Lightly Patinated	Soft	n	42.5	12.5	3
Scatter 2	019	1	Chalcedony	Blade	I	y	Translucent cream	Fresh	Soft	n	23.5	6	2
Scatter 2	020	1	Flint	Blade	?	n	Blue White	Patinated	Soft	n	28	8.5	-
Scatter 2	021	1	Flint	Blade	?	y	Grey	Lightly Patinated	?	n	35	12	2.53.5
Scatter 2	022	1	Flint	Blade	I	y	Honey Brown	Fresh	-	n	32.5	14	4
Scatter 2	023	1	Flint	Blade	S	n	Dark Grey	Lightly Patinated	Hard	n	35.5	17	7
Scatter 2	024	1	Flint	Blade	I	n	Brown	Fresh	Soft	n	34	15	3.5
Scatter 2	025	1	Flint	Blade	S	n	Honey Brown	Fresh	Hard	n	40	18	8

Location	SF No	Qty	Material	Type	P/S/I	Broken	Colour	Condition	Perc	Retouch	L	W	T
Scatter 2	026	1	Flint	Blade	S	n	Light Grey	Abraded	Soft	n	32	13.5	
Scatter 2	027	1	Flint	Blade	S	n	Brown	Lightly Patinated	?	n	34.5	16	6
Scatter 2	028	1	Flint	Blade	S	n	Cream	Fresh	Soft	n	26.5	12.5	3
Scatter 2	029	1	Flint	Blade	S	n	Light grey	Fresh	?	n	22.5	6	2.5
Scatter 2	030	1	Flint	Blade	I	n	Grey Brown	Fresh	-	n	26	9.5	1.5
Scatter 2	031	1	Flint	Blade	I	n	Honey Brown	Fresh	Bipolar	n	26	10	3
Scatter 2	032	1	Flint	Blade	S	n	Mottled cream brown	Abraded	Bipolar	n	28	9	4
Scatter 2	033	1	Flint	Blade	I	n	Honey brown	Fresh	?	n	23	9	2.5
Scatter 2	034	1	Flint	Blade	I	n	Honey Brown	Fresh	?	n	20	6.5	2
Scatter 2	035	1	Flint	Blade	P	n	Brown	Fresh	Bipolar	n	25	7	3
Scatter 2	036	1	Flint	Blade	I	n	Honey Brown	Fresh	?	n	16	4.5	2
Scatter 2	037	1	Flint	Blade	I	n	Honey Brown	Fresh	?	n	14	4	2
Scatter 2	038	1	Flint	Blade	I	n	Dull Brown	Fresh	?Soft	n	14	6	2
Scatter 2	039	1	Flint	Blade	S	n	Honey Brown	Fresh	?	n	11	3.5	2
Scatter 2	040	1	Flint	Blade	P	n	Blue Grey	Fresh	Bipolar	n	26	9	5
Scatter 2	041	1	?	Blade	?	n	White	?	?	n	23	7	3
Scatter 2	042	1	Flint	Blade	I	n	Light Grey	Fresh	Hard	n	29	11.5	5.5
Scatter 2	043	1	Flint	Core	C	n	Dull Honey Brown	Fresh	Bipolar	n	27	25.5	8
Scatter 2	044	1	Flint	Core	C	n	Honey Brown	Fresh	Bipolar	n	27	27.5	9
Scatter 2	045	1	Flint	Core	C	n	Brown	Fresh	Bipolar	n	33	35	13
Scatter 2	046	1	Flint	Core	C	n	Honey Brown	Fresh	Bipolar	n	22.5	20	8.5
Scatter 2	047	1	Flint	Core	C	n	Red Brown	Fresh	Bipolar	n	32	35	15
Scatter 2	048	1	Flint	Core	C	n	Honey Brown	Fresh	Bipolar	n	28	33.5	12
Scatter 2	049	1	Flint	Core	-	n	Cream brown	Lightly Patinated	Bipolar	n	29.5	25	10.5
Scatter 2	050	1	Flint	Core	C	n	White	Burnt	Bipolar	n	28	20	11
Scatter 2	051	1	Flint	Core	C	n	Dull Brown	Fresh	Bipolar	n	57.5	29	17.5
Scatter 2	052	1	Flint	Core	C	n	Blue Grey	Lightly Patinated	Bipolar	n	35	21	9

Location	SF No	Qty	Material	Type	P/S/I	Broken	Colour	Condition	Perc	Retouch	L	W	T
Scatter 2	053	1	Flint	Core	C	n	Light Brown	Fresh	Bipolar	n	30	27	17.5
Scatter 2	054	1	Flint	Core	C	n	Grey	Fresh	Bipolar	n	30	24.5	10.5
Scatter 2	055	1	Flint	Core	C	n	White	Burnt	Bipolar	n	42	30	17
Scatter 2	056	1	Flint	Core	C	n	Honey Brown	Fresh	Bipolar	n	24	33	10
Scatter 2	057	1	Flint	Core	C	n	Grey Brown	Lightly Patinated	Bipolar	n	33.5	27	16
Scatter 2	058	1	Flint	Core	C	n	Brown	Abraded	Bipolar	n	47	28	19
Scatter 2	059	1	Flint	Core	C	n	Honey Brown	Fresh	Bipolar	n	39	25	15
Scatter 2	060	1	Flint	Core	-	n	Honey Brown	Fresh	Bipolar	n	19.5	12.5	10
Scatter 2	061	1	Flint	Core	C	n	Cream Brown	Lightly Patinated	Bipolar	n	42	37	30
Scatter 2	062	1	Flint	Core	C	n	Grey Brown	Fresh	-	n	34.5	34	20
Scatter 2	063	1	Flint	Core	C	n	Brown	Fresh	Bipolar	n	19	19	12
Scatter 2	064	1	Flint	Core	C	n	Brown	Fresh	Bipolar	n	40	27.5	6.5
Scatter 2	065	1	Flint	Core	C	n	Grey	Fresh	Bipolar	n	39	23	11
Scatter 2	066	1	Flint	Core	C	n	Honey Brown	Fresh	Bipolar	n	45	20	10
Scatter 2	067	1	Flint	Core	C	n	Honey Brown	Fresh	Bipolar	n	45	30	18
Scatter 2	068	1	Flint	Core	C	n	Brown	Fresh	Bipolar	n	43.5	33	19
Scatter 2	069	1	Flint	Core	C	n	Brown	Fresh	Bipolar	n	34	41	23
Scatter 2	070	1	Flint	Core	C	n	Honey Brown	Fresh	Hard	n	25	24.5	14.5
Scatter 2	071	1	Flint	Core	C	n	Grey	Lightly Patinated	Bipolar	n	41.5	22	10
Scatter 2	072	1	Flint	Core	C	n	Dull Honey Brown	Fresh	Bipolar	n	46	29	14
Scatter 2	073	1	Flint	Core	C	n	Grey Brown	Fresh	Hard	n	43	41	13
Scatter 2	074	1	Flint	Core	C	n	Honey Brown	Fresh	Soft	n	30	35	26
Scatter 2	075	1	Flint	Flake	I	n	Honey Brown	Fresh	Hard	n	32	28	6
Scatter 2	076	1	Flint	Flake	S	n	Grey Brown	Abraded	-	n	36	21.5	4.5
Scatter 2	077	1	Flint	Flake	S	n	Honey Brown	Fresh	Bipolar	n	12	6	2
Scatter 2	078	1	Flint	Flake	I	n	Brown	Fresh	-	n	16	11	2
Scatter 2	079	1	Flint	Flake	I	n	Honey Brown	Fresh	Bipolar	n	14	11	2

Location	SF No	Qty	Material	Type	P/S/I	Broken	Colour	Condition	Perc	Retouch	L	W	T
Scatter 2	080	1	Flint	Flake	-	n	White	Burnt	Hard	n	15	11	3
Scatter 2	081	1	Flint	Flake	S	y	Grey	Fresh	-	n	13	8	2
Scatter 2	082	1	Flint	Flake	I	n	Honey Brown	Fresh	?	n	14	14	2.5
Scatter 2	083	1	Flint	Flake	I	n	Dull Honey Brown	Fresh	Bipolar	n	18	16	3
Scatter 2	084	1	Flint	Flake	S	n	Honey Brown	Fresh	Bipolar	n	15.5	19	4.5
Scatter 2	085	1	Flint	Flake	S	y	Grey	Fresh	-	n	17.5	10.5	2
Scatter 2	086	1	Flint	Flake	S	n	Grey	Fresh	Bipolar	n	28.5	23	3
Scatter 2	087	1	Flint	Flake	P	n	Honey Brown/Black	Fresh	Hard	n	35	33.5	12.5
Scatter 2	088	1	Flint	Flake	S	n	Brown	Fresh	Bipolar	n	32	23	7
Scatter 2	089	1	Flint	Flake	P	n	Honey Brown	Fresh	Bipolar	n	32.5	32	8
Scatter 2	090	1	Flint	Flake	S	n	Honey Brown	Fresh	Hard	n	24	14	3
Scatter 2	091	1	Flint	Flake	S	n	Honey Brown	Fresh	Bipolar	n	25.5	16.5	5
Scatter 2	092	1	Flint	Flake	P	n	Honey Brown	Fresh	Bipolar	n	28	21	6.5
Scatter 2	093	1	Flint	Flake	S	n	Honey Brown	Fresh	Bipolar	n	23	24	5
Scatter 2	094	1	Flint	Flake	S	n	Mottled Grey	Fresh	Hard	n	36.5	45.5	12
Scatter 2	095	1	Flint	Flake	S	n	Speckled Brown	Fresh	Bipolar	n	30	23	5.5
Scatter 2	096	1	Flint	Flake	S	n	Dull Brown	Fresh	Hard	n	28	23	5
Scatter 2	097	1	Flint	Flake	P	n	Honey Brown	Fresh	Bipolar	n	25	19	4.5
Scatter 2	098	1	Flint	Flake	S	y	Brown	Fresh	Hard	n	26	22	6
Scatter 2	099	1	Flint	Flake	I	n	Brown	Fresh	Hard	n	39	24	6
Scatter 2	100	1	Flint	Flake	S	n	Honey Brown	Fresh	Bipolar	n	25	34	3
Scatter 2	101	1	Flint	Flake	I	n	Light Grey	Fresh	Hard	n	35	18	7
Scatter 2	102	1	Flint	Flake	P	n	Red	Burnt	Bipolar	n	27	20	8.5
Scatter 2	103	1	Flint	Flake	P	y	White	Burnt	Bipolar	n	22	23	5
Scatter 2	104	1	Flint	Flake	S	n	Brown/Black	Fresh	Bipolar	n	32.5	24	11.5
Scatter 2	105	1	Flint	Flake	I	n	Brown	Fresh	Hard	n	31.5	17	7
Scatter 2	106	1	Flint	Flake	S	n	Honey Brown	Fresh	Hard	n	33	26	16

Location	SF No	Qty	Material	Type	P/S/I	Broken	Colour	Condition	Perc	Retouch	L	W	T
Scatter 2	107	1	Flint	Flake	S	n	Grey Brown	Fresh	Bipolar	n	32.5	31	6.5
Scatter 2	108	1	Flint	Flake	S	n	grey Brown	Fresh	Bipolar/Hard	n	28	30	5
Scatter 2	109	1	Flint	Flake	P	y	White	Burnt	-	n	28	23	6.5
Scatter 2	110	1	Flint	Flake	P	n	Honey Brown	Fresh	Bipolar	n	51	38	11
Scatter 2	111	1	Flint	Flake	-	n	Blue Grey and Brown	Patinated	Hard	n	43	24	11
Scatter 2	112	1	Flint	Flake	I	n	Cream	Fresh	?Soft	n	30	15	3
Scatter 2	113	1	Flint	Flake	S	n	Honey Brown	Fresh	Hard	n	50	38.5	10
Scatter 2	114	1	Flint	Flake	P	n	Black	Fresh	Bipolar	n	32	19	6
Scatter 2	115	1	Flint	Flake	P	n	Honey Brown	Fresh	Bipolar	n	34	24	4.5
Scatter 2	116	1	Flint	Flake	I	n	Honey Brown	Fresh	Bipolar	n	9	13	2.5
Scatter 2	117	1	Flint	Flake	P	n	Honey Brown	Fresh	Bipolar/Hard	n	18.5	5.5	3.5
Scatter 2	118	1	Flint	Flake	I	y	Brown	Lightly Patinated	?Soft	n	21	13.5	3.5
Scatter 2	119	1	Flint	Flake	S	n	Light Grey	Fresh	Hard	n	19	27	4
Scatter 2	120	1	Flint	Flake	S	n	Honey Brown	Fresh	Bipolar	n	21.5	14	2
Scatter 2	121	1	Flint	Flake	I	n	Honey Brown	Fresh	Bipolar	n	22	17	3
Scatter 2	122	1	Flint	Flake	P	n	Dull Honey Brown	Fresh	Bipolar/Hard	n	24	16	3
Scatter 2	123	1	Flint	Flake	P	n	Mid/Dark Brown	Fresh	Bipolar	n	21	12	3.5
Scatter 2	124	1	Flint	Flake	I	n	Grey	Burnt	Hard	n	19	16	4
Scatter 2	125	1	Flint	Flake	S	n	Honey Brown	Fresh	Bipolar	n	26.5	16	4.5
Scatter 2	126	1	Chalcedony	Flake	I	n	Translucent (some smokiness)	Fresh	Bipolar	n	15	14	3
Scatter 2	127	1	Flint	Flake	S	n	Grey Brown	Fresh	Bipolar	n	31	20	16
Scatter 2	128	1	Flint	Flake	S	n	Grey Brown	Fresh	Hard	n	32.5	23	9
Scatter 2	129	1	Chalcedony	Flake	S	n	Banded Black, Brown and Translucent	Fresh	?	n	16	12	4
Scatter 2	130	1	Flint	Flake	S	n	Mottled Grey Brown	Fresh	Hard	n	32	42	6
Scatter 2	131	1	Flint	Flake	S	n	Honey Brown	Fresh	Bipolar	n	36.5	18	12
Scatter 2	132	1	Flint	Flake	S	n	Honey Brown	Fresh	Bipolar	n	23.5	22	6

Location	SF No	Qty	Material	Type	P/S/I	Broken	Colour	Condition	Perc	Retouch	L	W	T
Scatter 2	133	1	Flint	Flake	S	n	Honey Brown	Fresh	Bipolar	n	24	13	10
Scatter 2	134	1	Flint	Flake	S	n	Grey	Fresh	Hard	n	33	21	5
Scatter 2	135	1	Flint	Flake	I	y	pink	Burnt	-	n	23	19	4
Scatter 2	136	1	Flint	Flake	S	n	orange black	Fresh	Bipolar	n	32.5	30.5	10.5
Scatter 2	137	1	Flint	Flake	S	y	Pink Grey	Burnt	-	n	28	23	9
Scatter 2	138	1	Flint	Flake	S	n	Brown	Fresh	?	n	29	34.5	9
Scatter 2	139	1	Flint	Flake	S	n	Grey Brown	Fresh	?	n	36	38	9
Scatter 2	140	1	Flint	Flake	S	n	Grey	Lightly Patinated	Hard	n	27	17	3.5
Scatter 2	141	1	Flint	Flake	I	n	Honey Brown	Fresh	-	n	5	3.5	1.5
Scatter 2	142	1	Flint	Flake	S	n	Honey Brown	Fresh	Bipolar	n	21	19	3.5
Scatter 2	143	1	Flint	Flake	P	n	Honey Brown	Fresh	?	n	56	32	18
Scatter 2	144	1	Flint	Flake	I	n	Honey Brown	Fresh	?Soft	n	14.5	12	4
Scatter 2	145	1	Flint	Flake	S	n	Honey Brown	Fresh	Bipolar	n	24	11	4
Scatter 2	146	1	Flint	Flake	I	n	Honey Brown	Fresh	Hard	n	6	11	2
Scatter 2	147	1	Flint	Flake	S	n	Grey	Fresh	?	n	16	8	3
Scatter 2	148	1	Flint	Flake	S	n	Honey Brown	Fresh	Hard	n	15	20	2
Scatter 2	149	1	Flint	Flake	S	n	Grey	Fresh	Hard	n	14.5	14	6
Scatter 2	150	1	Flint	Flake	P	n	Honey Brown	Fresh	Hard/Bipolar	n	14	21.5	4
Scatter 2	151	1	Flint	Flake	S	n	Grey	Fresh	Bipolar	n	24	14.5	3
Scatter 2	152	1	Flint	Flake	I	n	Grey	Fresh	?	n	18	14	3
Scatter 2	153	1	Flint	Flake	I	y	Cream Brown	Lightly patinated	?Soft	n	25.5	13	4
Scatter 2	154	1	Flint	Flake	S	y	Grey	Lightly Patinated	Bipolar	n	20.5	19.5	4
Scatter 2	155	1	Flint	Flake	I	y	Grey/White	Patinated	?Soft	n	27.5	15	5
Scatter 2	156	1	Flint	Flake	S	y	Honey Brown	Fresh	Bipolar	n	27.5	16.5	3
Scatter 2	157	1	Flint	Flake	S	n	Honey Brown	Fresh	?	n	12	9	2
Scatter 2	158	1	Flint	Flake	I	n	Honey	Fresh	?	n	12	8	1.5
Scatter 2	159	1	Flint	Flake	I	n	Pink	Burnt	-	n	12	10	2

Location	SF No	Qty	Material	Type	P/S/I	Broken	Colour	Condition	Perc	Retouch	L	W	T
Scatter 2	160	1	Flint	Flake	I	?	Grey	Fresh	?	n	9	12	1.5
Scatter 2	161	1	Flint	Flake	I	n	Honey Brown	Fresh	Hard	n	9.5	10.5	1
Scatter 2	162	1	Flint	Flake	S	n	Honey Brown	Fresh	Bipolar	n	15	22	3.5
Scatter 2	163	1	Flint	Flake	P	y	Honey Brown	Fresh	-	n	7.5	17	20
Scatter 2	164	1	Flint	Flake	S	n	Black	Fresh	?	n	26.5	17	9
Scatter 2	165	1	Flint	Flake	S	n	Honey Brown	Fresh	Bipolar	n	26.5	17	20
Scatter 2	166	1	Flint	Flake	S	n	Grey Brown	Fresh	?	n	14	17	5
Scatter 2	167	1	Flint	Flake	S	n	Honey Brown	Fresh	Bipolar	n	37	20	10
Scatter 2	168	1	Flint	Flake	S	n	Honey Brown	Fresh	?	n	11	15	2
Scatter 2	169	1	Flint	Flake	S	n	Honey Brown	Fresh	Bipolar	n	12.5	10	3.5
Scatter 2	170	1	Flint	Flake	I	n	Brown	?Burnt	?	n	14	14	4.5
Scatter 2	171	1	Flint	Flake	S	n	Red Brown	Fresh	Bipolar	n	20.5	11	5
Scatter 2	172	1	Flint	Flake	P	n	Grey	Fresh	Bipolar	n	16	11	2
Scatter 2	173	1	Flint	Flake	S	n	Brown	Fresh	Bipolar	n	14	10.5	3
Scatter 2	174	1	Flint	Flake	P	n	Brown	Fresh	?	n	14	9	2
Scatter 2	175	1	Flint	Flake	P	n	Grey Brown	Fresh	Bipolar	n	22.5	15.5	5
Scatter 2	176	1	Flint	Flake	S	y	Grey	Burnt	-	n	15	20	3.5
Scatter 2	177	1	Flint	Flake	-	y	White	Burnt	-	n	29	26.5	10
Scatter 2	178	1	Flint	Flake	S	n	Black	Fresh	Bipolar	n	29	20	11
Scatter 2	179	1	Flint	Flake	S	n	Orange and Black	Fresh	Bipolar	n	51	22	9.5
Scatter 2	180	1	Flint	Chip	S	n	Honey Brown	Fresh	-	n	-	-	-
Scatter 2	182	1	Flint	Chip	S	n	Honey Brown	Fresh	-	n	-	-	-
Scatter 2	183	1	Flint	Chip	I	n	Honey Brown	Fresh	-	n	-	-	-
Scatter 2	183	1	Flint	Chip	I	n	Honey Brown	Fresh	-	n	-	-	-
Scatter 2	184	1	Flint	Chip	I	n	Honey Brown	Fresh	-	n	-	-	-
Scatter 2	185	1	Flint	Chip	I	n	Honey Brown	Fresh	-	n	-	-	-
Scatter 2	186	1	Flint	Chip	I	n	Honey Brown	Fresh	-	n	-	-	-

Location	SF No	Qty	Material	Type	P/S/I	Broken	Colour	Condition	Perc	Retouch	L	W	T
Scatter 2	187	1	Flint	Ind	I	n	Honey Brown	Fresh	-	n	10.5	12.5	8
Scatter 2	188	1	Flint	Ind	I	n	Honey Brown	Fresh	-	n	11	4.5	2
Scatter 2	189	1	Flint	Ind	S	n	White	Burnt	-	n	29	15	12
Scatter 2	190	1	Flint	Pebble	C	y	White	Burnt	-	n	28	29.5	17
Scatter 2	191	1	Flint	Backed Blade	I	y	Honey Brown	Fresh	Soft	y	33	62.1	7
Scatter 2	192	1	Flint	Scraper	P	n	Honey Brown	Fresh	?Hard	y	22	18.5	6
Scatter 2	193	1	Flint	?Scraper	S	n	Grey Pink	Fresh	Bipolar	y	38	33	10.5
Scatter 2	194	1	Flint	Flake	I	n	Honey Brown	Fresh	-	n	14	8	2
002-A1	195	1	Flint	Chip	I	y	Honey Brown	Fresh	-	n	-	-	-
002-A1	196	1	Flint	Chip	I	y	Grey	Burnt	-	n	-	-	-
002-A2	197	1	Flint	Chip	I	y	Honey Brown	Fresh	-	n	-	-	-
002-B2	198	1	Flint	Chip	I	y	Honey Brown	Fresh	-	n	-	-	-
002-B2	199	1	Quartzite	Flake	P	n	Grey Brown	Fresh	Hard	n	24	26	4.5
002-B2	200	1	Quartzite	Flake	P	n	Black	Fresh	Hard	n	13	16.5	2.5
004	202	1	Flint	Chip	S	n	Honey Brown	Fresh	-	n	-	-	-
004	203	1	Flint	Chip	S	n	Honey Brown	Fresh	-	n	-	-	-
004	204	1	Flint	Blade	I	n	Translucent brown	Fresh	?	n	16	4	3
004	205	1	Flint	Core	S	n	Grey Broprwn	Fresh	Bipolar	n	49	31.5	14
004	206	1	Flint	Core	S	n	Honey Brown	Fresh	Bipolar	n	31	32	9
004	207	1	Flint	Flake	S	n	Honey Brown	Fresh	?	n	16	11	2
004	208	1	Flint	Flake	S	n	Honey Brown	Fresh	?	n	23.5	12	4
004	209	1	Flint	Flake	P	n	Honey Brown	Fresh	Bipolar	n	18	14	3
004	210	1	Flint	Flake	I	n	Dull Honey Brown	Fresh	Bipolar	n	15	10	4.5
004	211	1	Flint	Flake	I	n	Honey Brown	Fresh	Bipolar	n	12	11.5	2
004	212	1	Flint	Flake	S	n	Dull Honey Brown	Fresh	Bipolar	n	22	13.5	8
004	213	1	Flint	Flake	P	n	Honey Brown	Fresh	Bipolar	n	11.5	15	3
004	214	1	Flint	Flake	P	n	Dull Honey Brown	Fresh	Bipolar	n	12	11	5

Location	SF No	Qty	Material	Type	P/S/I	Broken	Colour	Condition	Perc	Retouch	L	W	T
004	215	1	Flint	Flake	P	n	Honey Brown	Fresh	Bipolar	n	18.5	8	4.5
004	216	1	Flint	Flake	P	y	Orange Black	Fresh	Bipolar	n	11	12	3.5
004	217	1	Flint	Chip	S	n	Grey Brown	Fresh	Bipolar	n	-	-	-
004	218	1	Flint	Flake	P	n	brown	Fresh	?Bipolar	n	22.5	11.5	5