

TDCA13/03



THIRD DON CROSSING

Archaeological Trial Trenching

commissioned by Aberdeen City Council

P100135

October 2013

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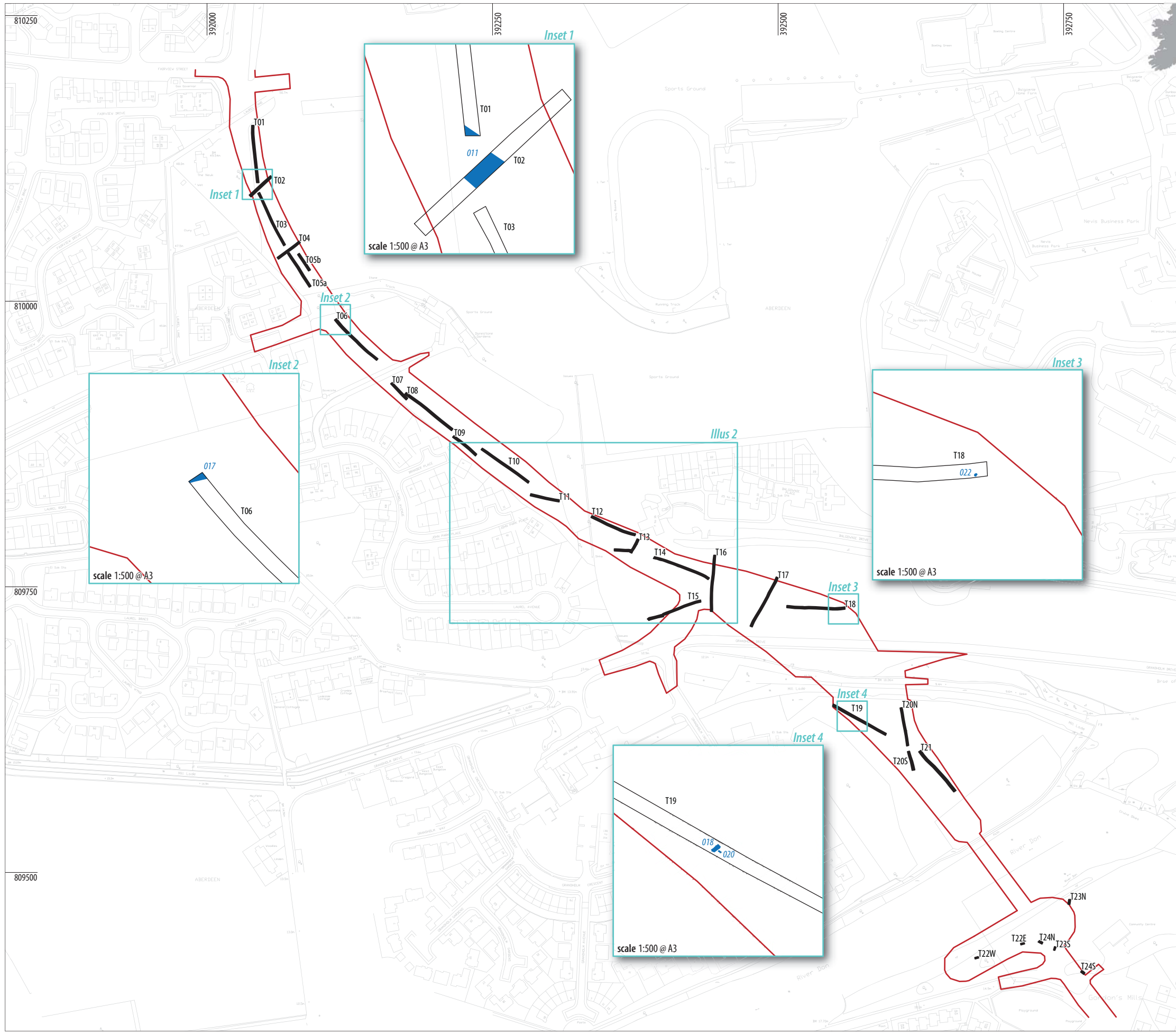


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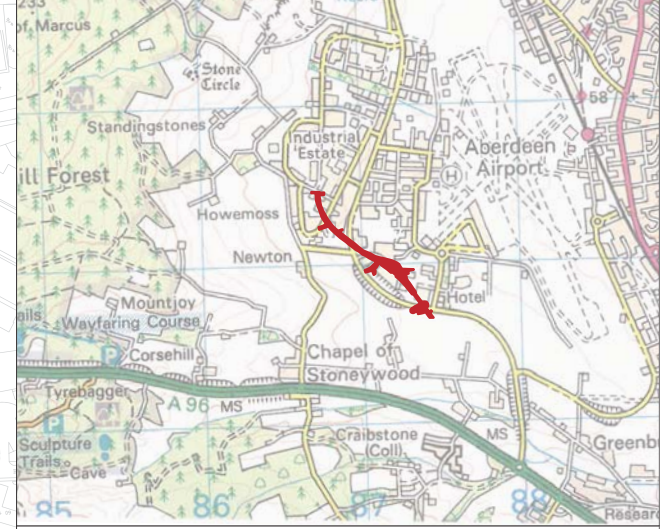
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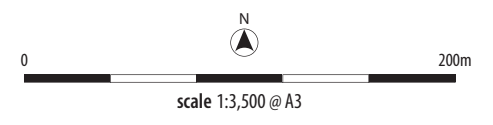


land at Danestone
3rd Don Crossing
Aberdeen City



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- application boundary
- ▬ trench
- feature



Illus 1
Site location

THIRD DON CROSSING

Archaeological Trial Trenching

Headland Archaeology Ltd undertook a trial trench evaluation of the planned approach road and bridge footings for the proposed Third Don Crossing in Aberdeen on behalf of Aberdeen City Council.

The evaluation comprised 29 trial trenches or test pits. A total of 11 features were recorded during the fieldwork all appeared to be fairly recent, probably less than 200 years old. The evaluation trenches on the terrace on the south side of the river Don were replaced with test pits due to deep deposits of unstable made ground.

1 INTRODUCTION

This report presents the results of trial trenching of the planned approach road and bridge footings for the Third Don Crossing in Aberdeen. The city council plans to create a third crossing of the River Don to improve the flow of traffic during rush hour.

The proposed development consists of a 2.4km road from Laurel Lane near the junction with the A90 road running south through Danestone, across Grandholm Drive and crossing the River Don and joining Gordon's Mill Road (**Illus 1**). The works include cycle ways and landscaping as well as clearance of vegetation. The area is surrounded by residential areas, and runs across the edge of the University of Aberdeen Balgownie sport pitches, through Danestone walled garden, public ground on the north and south banks of the river and extant roads.

The north end of the corridor cuts along the western edge of the Aberdeen University Balgownie sport pitches (Trenches 1–5b). It then curves to the south-east and cut across Danestone walled garden (Trench 6) and continues along the edge of an orchard leading up to a tall stone dyke running north to south along a natural gully (Trenches 7–11). The corridor continues to the south-east across a lawn on the south-west side of residential flats at the west end of Balgownie Drive (Trenches 12–14) and then cuts diagonally across the steep south-facing slope between Balgownie and Grandholm Drive (Trenches 15–18). It then continues across the flood-plain on the east side of the Grandholm housing estate across to the north bank of the river Don (Trenches 19–21).

On the south side of the river the development covers an oval area on the terrace to the north of the bend in Gordon's Mills Road leading into the road towards the south-east Trenches 22W–24S).

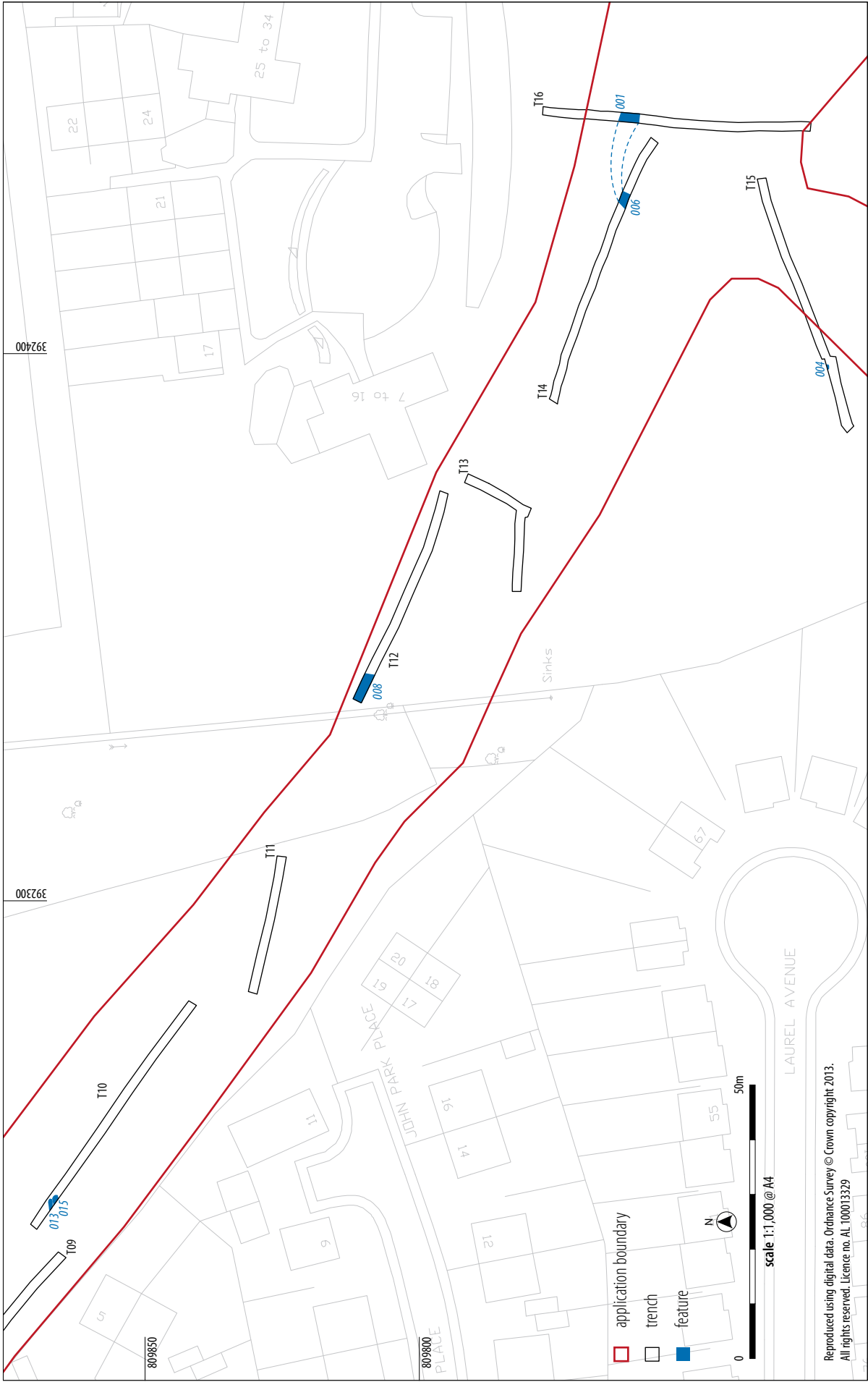
The superficial geological deposits comprises till at the northern end with alluvial deposits on the flood plain next to the river.

The evaluation was undertaken according to Written Scheme of Investigation (WSI) written by AECOM. The trial trench evaluation was carried out from 3rd to 9th September 2013.

2 ARCHAEOLOGICAL BACKGROUND

There are no known prehistoric sites within the development boundary. The Scottish National Monument Record (NMRS) lists three sites within or in close proximity of the development corridor:

1. NMRS NJ91SW 156. This is the site of a steading depicted on both the 1st and 2nd editions of the OS 6-inch map (Aberdeenshire, 1869, sheet IXXV; 1902, sheet IXXV.NW). The site lies within the heavily landscaped sports ground belonging to Aberdeen University and there are no visible remains of the steading.
2. NMRS NJ91SW 157. This is two granite boundary stones are situated on the line of the dry stone wall between the grounds of Danestone House and land belonging to Balgownie estate. Both are rectangular in section, one set into the fabric of the wall, the other freestanding on its south side.



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Illus 2
 Site detail

3. NMRS NJ90NW 3. This site is described in 1952 as 'A large, tree-covered, possibly artificial mound, 35 metres in diameter and 5 metres high, with a fairly level top'. During a visit 31 years later it is recorded as 'situated on a steep south-facing slope in an area of mixed broadleaf woodland at an altitude of about 14m OD'. However by 1997 it is recorded that 'nothing is visible of this mound. It appears to have been removed since last being visited by the Ordnance Survey in 1952'.

The road corridor also cut through the B-listed walled garden associated to Danestone House. The structure dates to around the early 18th century and comprises tall brick walls.

A geophysical survey was carried out of the development corridor (Bartlett & Boucher 2012). The survey indicated a low density of possible archaeological anomalies along the route. Two linear anomalies near to the Danestone walled garden could relate to the landscaping and gardens and interrupted linear anomalies near to the Grandholm Mills area could be related to the mill lade.



Illus 3

Made ground seen in Trench 24S. From the S

3 AIMS AND OBJECTIVES

The aim of the evaluation was to provide sufficient evidence for confident prediction of the archaeological significance and potential of the proposed development site. The specific objectives of the evaluation were to:

- Establish the location, extent, nature and date of archaeological features or deposits that may be present within the areas targeted for trenching
- Establish the integrity and state of preservation of archaeological features or deposits that may be present within the accessible areas of the site.



Illus 4

Section across ditch [01] in Trench 16. From the S-W

The results of the evaluation will be used to inform a strategy for archaeological mitigation, if appropriate.

4 METHOD

Most trenches were excavated using a JCB a 1.6m wide flat bladed ditching bucket, under direct archaeological supervision. Due to restricted access the three trenches (Trenches 19–21) next to the north side of the river, were excavated using a 7-ton 360° mechanical excavator. This machine was also used to excavate Trench 6 within the walled garden to avoid damage when tracking across the lawn.

The machines were used to remove topsoil and any underlying deposits, in spits up to 0.2m thick. Machine excavation ceased at the first significant archaeological horizon or the natural geology, whichever was encountered first. The stratigraphic sequence in each trench was recorded in full. Discrete features were 50% excavated and a slot was excavated through any linear features

All recording followed IfA Standards and Guidance for undertaking archaeological evaluations (IfA 2008). All contexts, small finds and environmental samples were given unique numbers and recording was undertaken on *pro forma* record sheets. Photographs were taken using a digital camera. An overall site plan was recorded using a differential GPS.

All finds were recorded by context and recorded 3-dimensionally where appropriate. Bulk samples, measuring up to 30 litres, were recovered from selected deposits for wet sieving and flotation if deemed appropriate. Samples were processed in laboratory conditions using a standard flotation method (cf Kenward *et al* 1980).

5 RESULTS

A total of 29 trenches were excavated (**Illus 1**). The three trenches on the south side of the river could not be fully excavated due to deep deposits of unstable made ground. These trenches were replaced by six trial pits located at each end of the trenches (**Illus 1**). The topsoil comprised grey brown sandy silts generally 0.2m to 0.3m thick. The underlying geological deposit on the north side of the river comprised mainly orange-brown gravels except for Trenches 19 to 21 on the flood plain next to the river which were located on alluvial sand. The area on the south side of the river contained dumped deposits over 2.2m deep in places (**Illus 3**).

A total of 11 features were uncovered during the evaluation comprising six ditches and gullies ([01], [06], [08], [11], [13] and [15]), three pits ([04], [18], [20]), a garden path [17] and a patch of burnt material [22].

Ditches and gullies

Ditch [01] was located in the northern half of Trench 16. It was aligned east to west and running along the edge of and parallel with a terrace along the south side of Balgownie Drive (**Illus 2**). The fill comprised loose dark gritty sand containing bands of clinker, bricks and other building debris indicating rapid backfill (**Illus 4**). The nature of the fill indicated that the ditch had been backfilled sometimes during the last two centuries.

Ditch [06] was located in the eastern half of Trench 14. It was similar in size and had similar fill to Ditch [01] some 10m to the east, but was on a different alignment orientated north-east to south-west. The size and fill indicated that these are part of the same feature,



Illus 5

Gullies [13] and [15] in Trench 10. From the S-E

but the orientation of [06] suggests that the ditch make a sharp turn downhill towards the south-west (**Illus 2**).

Ditch [08] was located at the west end of Trench 12 (**Illus 2**). This end of the trench was right up against a tall stone dyke and only the east side of the feature was exposed. It was aligned north to south parallel with the wall and a natural gully running down the slope. The feature was over 5m wide and 1m deep. The ditch had been deliberately backfilled with stony yellowish grey gritty sand capped by a layer of brownish pink clay 0.5m thick.

A wide shallow ditch, [11], was exposed near the middle of Trench 2. It was 5m wide by 1m deep and aligned north-west to south-east. It also cut across the southern corner of Trench 1 (**Illus 1, Inset 1**). The fill of the ditch contained modern glass and metal object indicating that it had been backfilled fairly recently.

The eastern terminals of two shallow gullies [13] and [15] were exposed towards the north-western end of Trench 10 (**Illus 2, 5**). They were both aligned east to west and terminated at the same point. [13] to the north was 0.55m wide by 0.08m deep and extended 2m into the trench. Gully [15] to the south was 0.72m wide, only 0.02m deep and extended 1.6m into the trench. The alignment and position of the two gullies indicates that they are contemporary and probably linked.

Pits

A small sub circular pit [04] was exposed up against the northern side towards the west end of Trench 15 (**Illus 2**). It measured 0.7m by 0.4m and was 0.3m deep. The fill comprised dark grey gritty sand that contained black material that appears to be industrial waste. It is therefore likely that the pit is post-medieval possibly dating to the 19th or early 20th century.

Two pits [18] and [20] were uncovered in the north-western part of Trench 19 (**Illus 1, Inset 4**). [18] was an oval pit aligned north-east to south-west, 0.6m wide by 1.2m long and 0.25m deep. Immediately to the south-east edge of [18], [20] was a smaller rectangular pit located 0.2m to the southeast measuring 0.4m long by 0.2m wide and 0.12m deep (**Illus 6**). This pit was aligned north-west to south-east at right angles to the larger pit. Both pits were filled with dark grey gritty sand containing black clinker, mortar and coal fragments, very similar to the overlying made ground that covered the north western part of Trench 19. The fill indicates that the pits are likely to date to the 19th or early 20th century.

Other features

A small shallow patch of dark fine silt containing bits of charcoal, [22], was exposed towards the eastern end of Trench 18 (**Illus 1, Inset 3**). The patch measured 0.42m by 0.37m and was 0.06m deep. The patch was sitting in a shallow depression in the natural sub-soil. The fill contained no components that could give an indication of the nature or date of this deposit.

The edge of stony foundations for a garden path, [17], was uncovered at the northern end of Trench 6 (**Illus 1, Inset 2**). The foundations were up to 0.4m thick and comprised sub-angular stones, 0.05m to 0.3m across, in a matrix of pale orange clay (**Illus 7**). The foundations extended 0.9m into the north end of the trench.



Illus 6

Pits [18] and [20] in Trench 19. From the S-E



Illus 7

Path foundations [17] at northwest end of Trench 6. From the S-W

6 DISCUSSION

The majority of the features uncovered during the evaluation appear to be fairly recent probably less than 300 years old.

The fill of ditch [11] contained modern material and may be related to the steading located in the area (NMRS NJ91SW 156) or possibly to the later landscaping when the Balgownie sports fields were created.

The large ditch seen in Trenches 14 and 16, ([01]/[06]) had loose un-compacted fill containing industrial waste suggesting a fairly recent date. The shape and fill strongly indicates that the are both part of the same ditch running east to west along the front edge of a terrace before tuning down slope towards the south-west. The feature is not depicted on the early OS maps.

Ditch [08] located at the west end of Trench 12 was only partly exposed. It is possible that the feature is created by erosion by a stream running down the slope. However, the steep and straight eastern edge of the feature seems to indicate that it was man-made. The feature had been deliberately backfilled possibly as part of landscaping around the housing estate 40m to the east.

The complete removal of a possibly man-made mound, 35 metres in diameter and 5 metres high (NMRS NJ90NW 3) on the lower slopes to the north of Grandholm Drive indicates that this area has been heavily landscaped over the last 30 years it is therefore possible that the features recorded in Trench 15 ([04]) and Trench 18 ([22]) are result of disturbance caused during the landscaping.

The two gullies [13] and [15] in Trench 10 were both less than 0.08m deep. Although very shallow, the gully terminals were well defined indicating that they are the base of cut features and not a result of undulating sub-soil. The fill of the features was very similar to the overlying soil, which may indicate that the features are recent; possibly related to the nearby orchard.

The two pits uncovered in Trench 19, were both filled with similar material: Soft grey brown gritty sand containing black clinker,

fragments of mortar, coal and slag. The fill is similar to a layer of made ground that cover the feature and the north-west end of the trench. It is likely to represent demolition debris or waste from industrial complex in the vicinity.

The foundation of a garden path, [17] was uncovered at the north end of Trench 6 inside the 18th century walled garden at Danestone. The line of the path had been recoded as a linear anomaly during a geophysical survey of the corridor in 2012 (Bartlett & Boucher 2012). The landowner Alexander Gordon remembered seeing the path before it was covered over to create a lawn in the western half of the walled garden.

7 REFERENCES

Bartlett & Boucher 2012 *Access from the north proposal (The third Doncrossing) Archaeological Geophysical Survey*. Unpublished client report for Aberdeen City Council (September 2012).

8 APPENDICES

Appendix 1 Site registers

Appendix 1.1 Trench register

Trench	Alignment	Dimensions	Max. depth	Stratigraphy			Details
				Topsoil	Subsoil thickness (m)	Natural	
01	N-S	1.9m x 50m	0.8m	Light grey brown fine humic silt, 0.20m to 0.33m thick	Made ground containing industrial debris up to 0.52m thick	Compact orange brown stony sandy silt	Six drains were exposed at the base of the trench
02	NE-SW	2m x 25m	1.1m	Light grey brown fine humic silt, 0.29m to 0.33m thick	Made ground containing industrial debris up to 1m thick	Stony orange brown sandy silt	One drain and a broad modern ditch [11] was exposed within the trench
03	NNW-SSE	1.7m x 50m	0.64m	Light grey brown fine humic silt, 0.16m to 0.20m thick	Made ground containing industrial debris 0.20m to 0.48m thick	Mottled light/dark orange brown stony sandy silt	Five tile drains and two gravel drains were exposed at the base of the trench
04	NE-SW	1.7m x 24m	0.4m	Light grey brown fine humic silt, 0.20m to 0.30m thick	Made ground containing industrial debris 0.08m to 0.15m thick	Stony orange brown sandy silt	Three gravel drains were exposed at the base of the trench
05a	NNW-SSE	1.7m x 35m	0.84m	Light grey brown fine humic silt, 0.23m to 0.30m thick	Made ground containing industrial debris 0.10m to 0.52m thick	Stony orange brown sandy silt	A gravel drain was exposed at the N end of the trench
05b	NNW-SSE	1.7m x 17m	0.57m	Light grey brown fine humic silt, 0.17m to 0.22m thick	Made ground containing industrial debris 0.16m to 0.25m thick	Stony orange brown sandy silt	No features
06	NW-SE	2m x 51m	0.85m	Light grey brown fine humic silt, 0.28m to 0.39m thick	Orange grey brown fine silt 0.5m thick	Orange sandy silt	The remains of a garden path [17] was located at the NW end - a rubble drain was exposed in the S half of the trench
07	NW-SE	1.8m x 20m	1.8m	Dark yellow brown sandy silt 0.18m to 0.22m thick	Made ground 0.6m thick at the S end deepening to 1.6 m at the N end	Mottled light/dark orange brown sandy silt	No features
08	NW-SE	2m x 51m	0.6m	Dark yellow brown sandy silt 0.12m to 0.20m thick	Made ground at N end of the trench up to 0.38m thick.	Mottled light/dark orange brown sandy silt	No features
09	NW-SE	1.9m x 25m	0.65m	Dark yellow brown sandy silt 0.18m to 0.23m thick	Made ground 0.36m to 0.43m thick.	Mottled light/dark orange brown sandy silt	No features
10	NW-SE	1.7m x 50m	0.6m	Dark yellow brown sandy silt 0.23m to 0.30m thick	Made ground covering the N 3/4 of the trench, up to 0.38m thick.	Mottled light/dark orange brown sandy silt	Two shallow gullies [13] and [15] were exposed at the N end of the trench. A gravel drain was exposed towards either end of the trench
11	WNW-ESE	1.8m x 25m	1.03m	Dark yellow brown sandy silt 0.25m to 0.33m thick	Made ground, 0.42m to 0.55m thick, comprising dark brown gritty sandy silt with stones and fragments of brick, tile and mortar.	Orange brown sandy silt	No features
12	NW-SE	1.8m x 42m	1.22m	Dark grey brown humic silt 0.22m to 0.35m thick	Made ground comprising light and dark brown stony sandy silt up to 0.6m thick	Orange brown sandy silt	The edge of a large (possibly natural) gully [08] was exposed at the W end of the trench
13	E-W & NE-SW	1.7m x 28m	1.15m	Dark grey brown humic silt 0.22m to 0.39m thick	Made ground comprising light and dark brown stony sandy silt up to 0.4m thick	Orange brown sandy silt	Due to the presence of a fence the trench was L-shaped.
14	WNW-ESE	1.7m x 51m	1.72m	Dark grey brown humic silt 0.2m to 0.45m thick	Not present	Orange brown gritty sand with some stones	A large ditch [06] was exposed towards the E end of the trench
15	WSW-ESE	1.7m x 50m	0.95m	Grey brown silt 0.27m to 0.95m thick	Not present	Yellow orange gritty sandy silt with frequent stones and boulders	A small pit [04] was exposed in the W half of the trench. A rubble drain was located towards the E end of the trench.
16	N-S	1.7m x 50m	1.3m	Grey brown sandy silt 0.16m to 0.48m thick	Not present	Yellow orange gritty sandy silt with frequent stones and boulders	A large ditch [01] was exposed towards the N end of the trench

Trench	Alignment	Dimensions	Max. depth	Stratigraphy			Details
				Topsoil	Subsoil thickness (m)	Natural	
17	NNE-SSW	1.8m x 49m	0.54m	Grey brown sandy silt 0.22m to 0.54m thick	Not present	Stony yellow orange gritty sandy silt	No features
18	E-W	1.8m x 51m	0.4m	Grey brown sandy silt 0.12m to 0.32m thick	Not present	Stony yellow orange gritty sandy silt	A burnt patch (22) was uncovered at the E end of the trench
19	NW-SE	1.8m x 53m	0.52m	Grey brown sandy silt 0.22m to 0.30m thick	Made ground comprising dark grey sand containing patches of gravel and lumps of coal and CBM up to 0.44m thick covers the W half of the trench.	Orange brown sand.	Two small pits, [18] and [20] were uncovered in the W half of the trench. Filled with material similar to the made ground covering the W part of the trench.
20N	N-S	1.7m x 34m	0.59m	Grey brown sandy silt 0.22m to 0.30m thick	Orange brown fine sandy silt 0.16m to 0.25m thick	Orange brown sand.	No features
20S	N-S	2m x 17m	0.59m	Grey brown sandy silt 0.22m to 0.30m thick	Orange brown fine sandy silt 0.16m to 0.25m thick	Orange brown sand.	No features
21	NW-SE	2m x 47m	0.48m	Grey brown sandy silt 0.19m to 0.25m thick	Orange brown fine sandy silt 0.20m to 0.25m thick	Orange brown sand.	No features
22W	ESE-WNW	1.1m x 3.1m	1.7m	Grey brown sandy silt 0.20m thick	Made ground comprising various debris in a matrix of grey sand	Not exposed	Excavation stopped before reaching the base of made ground due to collapsing trench sides
22E	ESE-WNW	1.1m x 3.1m	2.2m	Grey brown sandy silt 0.20m thick	Made ground comprising various debris in a matrix of grey sand	Not exposed	Excavation stopped before reaching the base of made ground due to collapsing trench sides
23N	NNE-SSW	1.6m x 4.3m	1.8m	Light grey brown sandy silt 0.20m thick	Made ground comprising various demolition rubble in a matrix of brown sand	Not exposed	Excavation stopped before reaching the base of made ground due to collapsing trench sides
23S	NNE-SSW	1.2m x 3m	2.1m	Grey brown sandy silt 0.20m thick	Made ground comprising various demolition rubble in a matrix of brown and grey sand	Not exposed	Excavation stopped before reaching the base of made ground due to collapsing trench sides
24N	NW-SE	1.5m x 3.6m	1.9m	Grey brown sandy silt 0.20m thick	Made ground comprising various demolition rubble in a matrix of brown sand	Not exposed	Excavation stopped before reaching the base of made ground due to collapsing trench sides
24S	NW-SE	1.7m x 3.2m	2m	Grey brown sandy silt 0.30m thick	Made ground comprising various demolition rubble in a matrix of grey sand 1.7m thick	Sand and gravel	No features

Appendix 1.2 Context register

Context	Area	Description
01	Tr16	Cut of large ditch aligned E-W. 5m wide by 1.3m deep. Sloping sides, flat base.
02	Tr16	Abandoned. Thought to be ditch fill - more likely to be variation within natural.
03	Tr16	Fill of ditch [01]. Soft dark gritty sand containing bands of clinker, bricks and other building debris.
04	Tr15	Cut of small sub circular pit, located up against the N side of the trench, 0.7m by 0.4m by 0.3m deep. Steep side to the W, sloping side to the E with a flat base.
05	Tr15	Fill of pit [04]. Dark grey gritty sandy silt. The fill contains sooty black material that appears to be industrial waste suggesting that the pit is post-medieval.
06	Tr14	Cut of large ditch aligned NE-SW. 13m wide by 1.7m deep. Sloping sides, flat base. The ditch might be the same as ditch [01] some 10m to the E in Trench 16 as it is similar in size and has similar fill. However the two cuts are on different orientations indicating a marked change of alignment.
07	Tr14	Fill of ditch [06]. Loose dark orange brown gritty sandy silt containing large stones in the middle. The fill was dirty and sooty probably derived from post-medieval industrial waste. The ditch appears to be deliberate backfilled.

Context	Area	Description
08	Tr12	Cut of large ditch aligned N-S and located at the W end of Trench 12. Only the E side of the feature was exposed in the trench. The feature was over 5m wide and over 1m deep. The E side was defined by steep cut into the natural. The feature was not excavated down to the base of the cut.
09	Tr12	Lower fill of cut [08]. Stony yellowish grey gritty sand. Probably re-deposited natural.
10	Tr12	Upper fill of cut [08]. Mid brownish pink clay 0.5m thick. Deliberate backfill/leveling of depression left by top of (09) within [08].
11	Tr02	Wide shallow linear cut aligned NW-SE, 5m wide by 1m deep. Sloping sides, flat base.
12	Tr02	Fill of linear cut [11]. Industrial debris in a matrix of orange and dark brown gritty sand with three large boulders in the middle. Some of the deposit had a blue staining with a strong smell of hydrocarbon - contamination. Deliberate and fairly recent infill of shallow linear cut [11].
13	Tr10	Cut of small shallow gully terminal aligned E-W, 0.55m wide, 0.08m deep that extends 2m into Trench 10. Sloping sides to the N and S, but steep at the terminal end to the E. Flat base.
14	Tr10	Fill of gully [13]. Dark grey brown gritty sand.
15	Tr10	Cut of small shallow gully terminal aligned E-W located just 0.25m to the S of gully [13]. The feature is 0.72m wide, 0.02m deep and extends 1.6m into the trench. The feature is very shallow but with well defined edges. Flat undulating base.
16	Tr10	Fill of gully [15]. Dark grey brown gritty sand, very similar to (14), the fill of gully [13] to the N.
17	Tr06	A layer of sub angular granite stones, 0.05m to 0.3m across forming the base of a garden path. The stones sit in a matrix of light grey clay. The deposit is 0.37m thick and extends up to 0.9m into the N end of Trench 06. The S edge of the foundations indicate that the path was aligned E-W along the N side of the walled garden
18	Tr19	Cut of a sub-rectangular feature aligned NE-SW. It is 0.6m wide by 1.2m long by 0.25m deep with steep sides and a flat base.
19	Tr19	Fill of cut [18]. Soft grey brown gritty sand containing black clinker, fragments of mortar, coal and slag - industrial waste, mixed with orange sand. The fill is similar with a layer of made ground that cover the feature and the NW end of the trench.
20	Tr19	Cut of a rectangular feature aligned NW-SE located 0.2m to the E of [18]. The cut is 0.4m long by 0.2m wide and 0.12m deep.
21	Tr19	Fill of cut [20]. Soft grey brown silty sand mixed with orange sand. The fill is similar to that of pit [18] and a layer of made ground that cover the features and the NW end of the trench. The fill contained three iron nails
22	Tr18	A patch of black fine silt containing charcoal located towards the E end of Trench 18. The patch was sub-oval and measured 0.42m by 0.37m by 0.06m deep.

Appendix 1.3 Photographic register

Picture	File name	Facing	Description	Picture	File name	Facing	Description
001	TDCA13-02-Pic01.JPG	S	Trench 16. N end	014	TDCA13-02-Pic14.JPG	N	Trench 15. [04] - small pit pre-ex.
002	TDCA13-02-Pic02.JPG	NE	Trench 16. Ditch [01]	015	TDCA13-02-Pic15a-b.JPG	N	Trench 15. [04] - small pit half sectioned
003	TDCA13-02-Pic03.JPG	S	Trench 16. Ditch [01]	016	TDCA13-02-Pic16.JPG	N	Trench 15. [04] - small pit half sectioned, detail
004	TDCA13-02-Pic04.JPG	N	Trench 16. Ditch [01]	017	TDCA13-02-Pic17.JPG	E	Trench 14. W end
005	TDCA13-02-Pic05.JPG	N	Trench 16. S end	018	TDCA13-02-Pic18.JPG	W	Trench 14. E end
006	TDCA13-02-Pic06.JPG	E	Trench 18. W end	019	TDCA13-02-Pic19.JPG	SW	Trench 16. Ditch [06]
007	TDCA13-02-Pic07.JPG	W	Trench 18. E end with burnt patch (22)	020	TDCA13-02-Pic20.JPG	SE	Trench 16. Ditch [06]
008	TDCA13-02-Pic08.JPG	SW	Trench 17. NE end	021	TDCA13-02-Pic21.JPG	S	Trench 13. N end
009	TDCA13-02-Pic09.JPG	NE	Trench 17. SW end	022	TDCA13-02-Pic22.JPG	E	Trench 13. W end
010	TDCA13-02-Pic10.JPG	W	Trench 15. E end	023	TDCA13-02-Pic23.JPG	E	Trench 12. W end
011	TDCA13-02-Pic11.JPG	E	Trench 15. W end	024	TDCA13-02-Pic24.JPG	W	Trench 12. E end
012	TDCA13-02-Pic12.JPG	SW	Trench 15. Spread of clinker in middle of trench	025	TDCA13-02-Pic25.JPG	S	Trench 01. N end
013	TDCA13-02-Pic13.JPG	S	Trench 15. Spread of clinker in middle of trench	026	TDCA13-02-Pic26.JPG	N	Trench 01. S end
				027	TDCA13-02-Pic27.JPG	NE	Trench 02. SW end

Picture	File name	Facing	Description
028	TDC13-02-Pic28.JPG	SW	Trench 02. NE end
029	TDC13-02-Pic29.JPG	S	Trench 02. Ditch [11]
030	TDC13-02-Pic30.JPG	E	Trench 02. Ditch [11]
031	TDC13-02-Pic31.JPG	S	Trench 03. N end
032	TDC13-02-Pic32.JPG	N	Trench 03. S end
033	TDC13-02-Pic33.JPG	NW	Trench 05a. SE end
034	TDC13-02-Pic34.JPG	SE	Trench 05a. NW end
035	TDC13-02-Pic35.JPG	NW	Trench 05b. SE end
036	TDC13-02-Pic36.JPG	SE	Trench 05b. NW end
037	TDC13-02-Pic37.JPG	NE	Trench 04. SW end
038	TDC13-02-Pic38.JPG	SW	Trench 04. NE end
039	TDC13-02-Pic39.JPG	E	Trench 11. W end
040	TDC13-02-Pic40.JPG	W	Trench 11. E end
041	TDC13-02-Pic41.JPG	NW	Trench 10. SE end
042	TDC13-02-Pic42.JPG	SE	Trench 10. NW end
043	TDC13-02-Pic43.JPG	W	Trench 10. Gullies [13] (right) and [15] (left)
044	TDC13-02-Pic44.JPG	SE	Trench 10. Gullies [13] and [15]
045	TDC13-02-Pic45.JPG	NW	Trench 10. Gullies [13] and [15]
046	TDC13-02-Pic46.JPG	SE	Trench 08. NW end
047	TDC13-02-Pic47.JPG	NW	Trench 08. SE end
048	TDC13-02-Pic48.JPG	SE	Trench 09. NW end
049	TDC13-02-Pic49.JPG	NW	Trench 09. SE end
050	TDC13-02-Pic50.JPG	NW	Trench 07. SE end
051	TDC13-02-Pic51.JPG	SE	Trench 07. NW end
052	TDC13-02-Pic52.JPG	NW	Trench 24S
053	TDC13-02-Pic53.JPG	N	Trench 24S. SW facing section
054	TDC13-02-Pic54.JPG	SE	Trench 24N
055	TDC13-02-Pic55.JPG	E	Trench 24N. SW facing section
056	TDC13-02-Pic56.JPG	SW	Trench 23N
057	TDC13-02-Pic57.JPG	S	Trench 23N. NW facing section
058	TDC13-02-Pic58.JPG	SW	Trench 23S

Picture	File name	Facing	Description
059	TDC13-02-Pic59.JPG	S	Trench 23S. NW facing section
060	TDC13-02-Pic60.JPG	NW	Trench 24N
061	TDC13-02-Pic61.JPG	N	Trench 24N. SW facing section
062	TDC13-02-Pic62.JPG	W	Trench 22E
063	TDC13-02-Pic63.JPG	NE	Trench 22E. S facing section
064	TDC13-02-Pic64.JPG	W	Trench 22W
065	TDC13-02-Pic65.JPG	SW	Trench 22W. N facing section
066	TDC13-02-Pic66.JPG	NW	Trench 06. Path foundations [17] at NW end of trench
067	TDC13-02-Pic67.JPG	NE	Trench 06. Path foundations [17] at NW end of trench
068	TDC13-02-Pic68.JPG	NE	Trench 06. Path foundations [17] at NW end of trench. Detail
069	TDC13-02-Pic69.JPG	N	Trench 06. Path foundations [17] at NW end of trench
070	TDC13-02-Pic70.JPG	SE	Trench 06. NW end
071	TDC13-02-Pic71.JPG	NW	Trench 06. SE end
072	TDC13-02-Pic72.JPG	NW	Trench 06 backfilled
073	TDC13-02-Pic73.JPG	SE	Trench 06 backfilled
074	TDC13-02-Pic74.JPG	NW	Trench 21. SE end
075	TDC13-02-Pic75.JPG	SE	Trench 21. NW end
076	TDC13-02-Pic76.JPG	N	Trench 20S. S end
077	TDC13-02-Pic77.JPG	S	Trench 20S. N end
078	TDC13-02-Pic78.JPG	N	Trench 20N. S end
079	TDC13-02-Pic79.JPG	S	Trench 20N. N end
080	TDC13-02-Pic80.JPG	NE	Trench 19. Pit [18] half sectioned
081	TDC13-02-Pic81.JPG	NW	Trench 19. Pits [18] and [20] half sectioned.
082	TDC13-02-Pic82.JPG	SE	Trench 19. NW end
083	TDC13-02-Pic83.JPG	NW	Trench 19. SE end

Appendix 1.4 Sample register

Sample	Context	Description
001	19	Fill of cut [18]. Soft grey brown gritty sand containing black clinker, fragments of mortar, coal and slag – industrial waste, mixed with orange sand. The fill is similar with a layer of made ground that cover the feature and the NW end of the trench.



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