

**Assessment Report on the Results of Metro  
North Advance Archaeological Test Trenching,  
Testing Area 9, Fosterstown South and  
Cloghran townlands, Co. Dublin,  
RPA ref: (MN102/MN103) South of Fosterstown  
to Dublin Airport Boundary (North)/Dublin  
Airport**

**Excavation Licence Number:** 09E467  
**Director:** Brendan Fagan  
**Report Author:** Brendan Fagan and James Hession  
**Project Code:** MN102 and MN103  
**Client:** Railway Procurement Agency RPA 7120\_5  
**Townland:** Fosterstown South townland.  
**Ordnance Datum:** 50 m  
**NGR:** 317422/244417



**HEADLAND**  
ARCHAEOLOGY Ltd

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## **SUMMARY**

Metro North is a light rail project, the route of which will run along a proposed 18 km corridor, from Belinstown in North County Dublin, through Dublin Airport, to the City Centre at St. Stephen's Green.

Headland Archaeology (Ireland) Ltd was commissioned by the Railway Procurement Agency (RPA) to carry out advance archaeological testing of the proposed Metro North scheme. For the purposes of archaeological assessment the Metro North route has been sub-divided into fourteen testing areas, TA 1–14 (Table 1). This report outlines the results of Advance Archaeological Test Trenching undertaken in Testing Area 9, Sub-areas 22 and 23, Fosterstown South and Cloghran Townland (MN102 and MN103), Co. Dublin at the site of the proposed metro development (09E467).

The programme of advance archaeological testing for Metro North was carried out following a series of non-invasive archaeological investigations including an Environmental Impact Assessment (EIA; CRDS Ltd 2008), the preparation of an Archaeological Strategy Document (MGL Ltd 2007) and a programme of geophysical survey (08R0117; Thebaudeau and Harrison 2009)

The EIA process originally identified the townland boundary between Fosterstown South and Cloghran townlands as a site of archaeological significance within Testing Area 9 (CRDS Ltd. 2008; HC#417). In addition to this, a number of Recorded Monuments (RMP'S) were in the vicinity of the proposed testing area, though none are impacted directly by it (Figure 1; Table 2). The Recorded Monuments (RMP'S) identified in the EIA comprise of three recorded monuments; a ring ditch (DU011-047), a ringfort (DU011-046) and a holy well (DU014-010), (CRDS Ltd 2008). Although these sites will not be directly impacted upon by the proposed scheme they provide evidence for the human settlement and activity within the area. The geophysical survey also noted a number of anomalies of possible archaeological significance within Testing Area 9, Sub-area 22 that consisted of a curvilinear anomaly thought to represent a ditch and several intermittent linear trends (Thebaudeau and Harrison 2009, 28). Geophysical survey of Testing Area 9 Sub-area 23 was not carried out due to the unsuitable nature of the landscape.

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The advance archaeological testing for Testing Area 9, Sub-area 22 (09E467) was carried out on the 1st Oct 2009. Access was later granted to Sub-area 23 (Cloghran townland) which was tested on the 21<sup>st</sup> – 22<sup>nd</sup> January 2010. Twenty-four test trenches were excavated in Testing Area 9, amounting to a total of 1,538.50 linear metres (3,077 m<sup>2</sup>). This comprised 11.4% of entire testing area (26,782 m<sup>2</sup>).

All features identified during the course of testing dated from the post-medieval period. As the Townland Boundary is in fact a natural watercourse it is not the date of the physical feature that is significant but the date at which it was considered a boundary. This use of the stream as a boundary can only be dated to sometime before its earliest known record, the ordnance survey c. 1840. The townland boundary ditch between Fosterstown South and Cloghran townlands corresponds with a stream (River Sluice) as shown on the 1<sup>st</sup> and 2<sup>nd</sup> editions of the OS map.

The geophysical survey identified a north/south orientated curvilinear anomaly in the southernmost part of Sub-area 22 (AS22, G56; Thebaudeau and Harrison 2009, 28). Test Trenches 11 and 12 excavated in Sub-area 22 identified this feature as a shallow ditch orientated north/south and perpendicular from the townland boundary. Test trenching did not provide further evidence to indicate the date or function of this linear feature but it would appear that it has an agricultural function and respects the older boundary to the south.

The remaining features of archaeological potential noted in the geophysical survey were identified as the remains of late post-medieval and modern agricultural activity, namely plough furrows, field boundaries, land drains and stone sockets, and were not considered to be of archaeological significance.

This report outlines the results of the archaeological testing and assesses the impact of the proposed Metro North scheme on Testing Area 9, Sub-area 22 and 23.



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## 1.0 INTRODUCTION

This document is submitted as an assessment report on the Advance Archaeological Testing of Metro North, Testing Area 9, Sub-areas 22 and 23, Fosterstown South and Cloghran townland (MN102 and MN103), Co. Dublin (09E467).

Metro North will be a combined underground and surface light rail service development, segregated from traffic using tunnel, road median and Greenfield construction environments. The Metro North route will run along a proposed 18km corridor, from Belinstown in North County Dublin, through Dublin Airport, to the City Centre at St. Stephen's Green.

The route of the Metro North is generally a north/south alignment. It will have stops at Belinstown (where its depot will be located), Lissenhall (provisional), Estuary, (provisional), Seatown, Swords, Fosterstown, Dublin Airport, Dardistown, Northwood, Ballymun, Dublin City University, Griffith Avenue, Drumcondra, Mater Hospital, Parnell Square, O'Connell Bridge and St. Stephen's Green. Testing Area 9 incorporates the footprint of the Metro North alignment and the compound area for the north portal tunnel.

The purpose of the advance testing was to determine the presence or absence of archaeological features, structures, deposits, artefacts or ecofacts along the route so as to inform the subsequent archaeological strategy in advance of construction. All areas of archaeological potential, sites and significant features recorded for the footprint of the proposed scheme in the Metro North EIS or subsequently identified by the Metro North geophysical survey were investigated as part of the testing programme.

For the purposes of design and construction the Metro North route has been broken into seven zones or section areas (MN101-MN107):

- Area 1            MN101 - Lissenhall to Fosterstown;
- Area 2            MN102 - South of Fosterstown to Dublin Airport Boundary (North);
- Area 3            MN103 - Dublin Airport;
- Area 4            MN104 - Dublin Airport Boundary (South) to M50 motorway;
- Area 5            MN105 - M50 (South) to Dublin City University (DCU);

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Area 6 MN106 - DCU to Mater Hospital; and

Area 7 MN107 - Mater Hospital to St Stephen's Green

For management purposes, the Metro North route has been sub-divided into fourteen archaeological testing areas (TA1–14) by the RPA Project Archaeologist and each of these areas has been assigned an individual excavation licence number (see Table 1).

Testing Area	Excavation License No.
TA1	09E450
TA2	09E448
TA3	09E449
TA4	09E462
TA5	09E463
TA6	09E464
TA7	09E465
TA8	09E466
TA9	09E467
TA10	09E478
TA11	09E479
TA12	09E480
TA13	09E481
TA14	09E482

Table 1: Testing areas and their assigned excavation licence numbers.

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## **2.0 SITE LOCATION AND DESCRIPTION**

Testing Area 9 Sub areas 22 and 23, incorporating the footprint of the Metro North alignment and the compound for the north portal tunnel, is located at NGR 317422/244417 in the townlands of Fosterstown South and Cloghran (MN102 and MN103), Co. Dublin. Sub-area 22 is located in the townland of Fosterstown South, Barony of Nethercross, parish of Swords, Co. Dublin and Sub-area 23 is located in the townland of Cloghran, Barony of Coolock, parish of Cloghran, Co. Dublin (Figure 1). It is situated on pasture land 150 m to the north of the R108 and approximately 800 m to the northeast of Dublin Airport.

The testing area measures 26,782 m<sup>2</sup> and incorporates two large fields either side of the townland boundary between Fosterstown Little and Cloghran (CRDS Ltd. 2008; HC # 417). Testing Area 9 Sub-area 22 was situated on elevated pasture land located in one large field which had a steep slope on either side of a central ridge which ran roughly east west across the field. Sub-area 23 was located to the south of the townland boundary HC#417 in a single field of rough pasture land with a steep north/south gradient

Soils specific to the region of North county Dublin are predominated by a highly consolidated, very stiff clay and silt matrix containing sand, gravel, cobbles and boulders. This clay is generally grey to black in colour. In Testing Area 9 of the proposed scheme however, it was yellowish brown. Pockets of glacial sands and gravels occur within the boulder clay. These sands and gravels are likely to have been deposited in glacial ponds or streams and are generally water bearing. The underlying bedrock comprises a nodular and muddy argillaceous limestone with a relatively uniform bed thickness. It is interbedded with thin shale beds and contains major units of very distinctive, laminated fine limestone (ERM and Jacobs Engineering Ireland Ltd 2008).

## **3.0 PROJECT BACKGROUND**

Several stages of non-invasive archaeological investigation were carried out on the route of Metro North prior to the archaeological testing, and the results of these investigations have had a direct influence on the strategy adopted for the testing programme.

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### *3.1 Environmental Impact Statement*

An Environmental Impact Assessment was carried out as part of the Railway Order Application for Metro North. Cultural Resource Development Services Limited (CRDS) on behalf of ERM Environmental Resources Management Ireland Limited (ERM) completed the assessment for archaeology, architectural heritage and cultural heritage. The assessment comprised a review of the published and unpublished documentary, aerial and cartographic sources, supported by a field inspection of the proposed alignment.

### *3.2 Archaeological Strategy Document*

In addition to the EIS chapter, an Archaeological Strategy document was prepared for Metro North by Margaret Gowen & co. Ltd. (MGL) in 2007. The strategy supplements the provisions outlined in the EIS for the mitigation of impacts on archaeological heritage arising from the project. The strategy is a live document and is managed by the RPA Project Archaeologist and will continue to evolve on a phased basis to ensure that it remains appropriate and effective in managing archaeological risk throughout the project up to construction commencement.

The EIS and the Metro North Archaeological Strategy recommended that a programme of geophysical survey followed by a programme of testing should be carried out in the Greenfield areas of the route in advance of construction.

### *3.3 Geophysical Survey*

A programme of geophysical survey was carried out by MGL between May and September 2008 with further investigations in 2009 (AS21 - G55 and AS22 – 56; Thebadeau and Harrison 2009, 28). The methodology comprised a scanning gradiometry survey and a detailed magnetometry survey of approximately twenty-eight areas along the route of Metro North. The geophysical survey revealed a number of anomalies of possible archaeological significance in Testing Area 9 Sub-area 22, which included a curvilinear anomaly thought to represent a ditch, several linear trends representing plough furrows and a number of pit-like features. The southern sector of Testing Area 9; Sub-area 23 was not suitable for geophysical testing due the steep gradient of this area.

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#### 4.0 ARCHAEOLOGICAL AND HISTORICAL BACKGROUND

This historical and archaeological background for Testing Area 9 has been compiled using the Archaeology, Architectural Heritage and Cultural Heritage chapter of the EIS (CRDS Ltd 2008), the aforementioned Archaeology Strategy (Gowen 2008) and Geophysical Survey (Thebaudeau and Harrison 2009) in addition to available literary and cartographic sources.

“Evidence for prehistoric activity in north county Dublin comes from the Record of Monuments and Places, which includes prehistoric sites, previous development-led investigations and surveys and from stray finds. In the early historical period the area through which the route is aligned formed part of the geographical region of Brega with a range of sites of this period including ringforts, dispersed settlement sites and Early Christian ecclesiastical sites. There are relatively few surviving ringforts in north County Dublin due to the intensive cultivation and agricultural activity in this part of the county, which leveled many earthwork sites. These tend to survive as cropmarks, as illustrated in the archaeological desk study undertaken for the EIS.

After the conquest by Anglo-Normans in the twelfth century new social structures, agrarian development and settlement centres of religious and secular origin followed. Throughout the medieval period monastic foundations and individual lordships held large tracts of lands in north Dublin. A period of great flux occasioned by warfare, confiscation and transfer of ownership occurred during the Tudor era and the Confederate and Williamite conflicts and the development of demesne properties in subsequent years all influenced the character and layout of the rural north Dublin landscape which was also influenced by peacetime economic and agricultural development’ (Gowen 2008, 4-5).

One site of archaeological significance was identified in the environs of Testing Area 9 HC#417 comprising a townland boundary. Testing Area 9 directly impacts upon HC#417 the townland boundary between Fosterstown South and Cloghran (CRDS Ltd, 2008).

##### *Recorded Archaeological Sites*

Due to activities associated with modern development and progress such as agriculture, industry and infrastructural improvements in the second half of the 20th century many archaeological sites have been levelled. The present day

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archaeological landscape is not therefore fully representative of the human occupation of Ireland which has spanned some nine thousand years. Nonetheless, archaeological sites survive today as upstanding structures, earthwork monuments or sub-surface remains.

A number of Recorded Monuments (RMP'S) lie within the vicinity of the proposed testing area however none are directly impacted by it. In all, there were three recorded monuments namely a ringditch (DU011-047), a ringfort (DU011-046) and a holy well (DU014-010), (CRDS Ltd 2008). All were within approximately 400 m of the testing area (Table 2). They provide evidence for well established human settlement and activity within the area.

HC #	RMP #	Site Type	NGR	Distance
-	DU011-047	Ring ditch	317943/244854	150 m to the east
15	DU011-046	Ringfort	317324/244258	320 m to the southwest
-	DU014-010	Ritual Site – Holy Well	318070/243830	400 m to the southeast

Table 2 - RMP's located within the vicinity of Testing Area 9

#### *Townlands and Townland Boundaries*

The Irish landscape is divided into approximately 60,000 townlands and the system of landholding is unique in Western Europe for its scale and antiquity. Many townlands predate the arrival of the Anglo-Normans and Irish historical documents consistently use townland names throughout the historic period to describe areas and locate events accurately in their geographical context. The townland names and boundaries were standardised in the nineteenth century when the Ordnance Survey began to produce large-scale maps of the country. The original Irish names were eventually anglicised to varying degrees, depending in part upon the linguistic skills of the surveyors and recorders. A study of the townland names can provide

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information on aspects of cultural heritage including descriptions of the use of the landscape by man. Furthermore, the social customs or history of the people who lived in a particular place is also occasionally reflected in the name of the townland, as is the case for the townland boundary bisecting Testing Area 9. According to the EIS (CRDS 2008) Fosterstown South Townland is an English place name which incorporates the family name of Foster, the landowners in the fourteenth century. The townland name Cloghran can be directly translated as 'stepping stones' and can also refer to stony place.

Testing Area 9 contains the townland boundary between Fosterstown South and Cloghran, the route of which is marked on the 1<sup>st</sup> edition Ordnance Survey map (1843). It consists of a stream (River Sluice) (HC # 417; CRDS 2008).

#### *Previous Archaeological Excavations*

The Archaeological Excavations Bulletin was also checked for a record of any licensed archaeological investigations carried out within the townlands of Fosterstown South and Cloghran since 1970, however no excavations were listed ([www.excavations.ie](http://www.excavations.ie)).

#### *Geophysical Survey*

The geophysical survey (Thébaudeau and Harrison 2009) revealed few features of archaeological significance in Testing Area 9 Sub-area 22; a curvilinear response thought to represent a ditch, several linear trends thought to represent plough furrows and large areas of modern magnetic disturbance.

- 'A curvilinear response within the south of Area AS22 (G56) may be of interest, perhaps representing a ditch. Interpretation is cautious however, as no clear archaeological pattern is visible' (Thébaudeau and Harrison 2009, 28);
- 'A series of parallel linear trends have been identified within AS21 (G55). These are thought to represent plough furrows and are of no archaeological interest' (Thébaudeau and Harrison 2009, 28).
- 'Magnetic disturbance within the south of Area AS22 (G56) also relates to ferrous material within the adjacent boundary whilst within (G55) is

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associated with an iron borehole cover at this location' (Thébaudeau and Harrison 2009, 28)

#### *Cartographic sources*

Testing Area 9 Sub-area 22 was contained within one large field. On the 1<sup>st</sup> Edition Ordnance Survey Maps (1843) the area was divided into two fields by a north/south orientated field boundary, which was identified in Test Trench 12. By the time of the 3<sup>rd</sup> Edition Ordnance Survey map (1906-1908), however, this field boundary had been removed and the present field system had been established.

Testing Area 9 Sub-area 23 was contained within one large field. On the 1<sup>st</sup> Edition Ordnance Survey Maps (1843) the area was divided into two fields by an east/west orientated field boundary, which was identified in Test Trenches 2, 3, 4, 9 and 10. By the time of the 3<sup>rd</sup> Edition Ordnance Survey (1906-1908) this field boundary had been removed and the present field system had been established.

## **5.0 OBJECTIVES**

The objective of the testing was to determine the presence or absence of archaeological features, structures, deposits, artefacts or ecofacts along the route so as to inform the subsequent archaeological strategy in advance of construction. All areas of archaeological potential, sites and significant features identified in the EIS and by the geophysical survey were investigated during the testing programme.

As part of the advance archaeological testing of Metro North, all townland boundaries directly impacted by the proposed scheme were investigated and surveyed. One of these townland boundaries (Fosterstown South/Cloghran; HC#417) was located within Testing Area 9, separating Sub-areas 22 and 23. This boundary was investigated and recorded during the test trenching and the results of this investigation are detailed in Section 7.0 below.

## **6.0 METHODOLOGY AND CONSTRAINTS**

The archaeological excavation licence number (09E467) was granted to Bill Frazer and transferred to Brendan Fagan of Headland Archaeology (Ireland) Ltd by the Department of the Environment, Heritage and Local Government (DoEHLG) in consultation with the National Museum of Ireland (NMI). This licence pertained to the



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excavation of test trenches as per the trench layout plan for Testing Area 9, Sub-areas 22 and 23, which was submitted together with the licence application method statement. The advance archaeological testing for Testing Area 9, Sub-area 22 (09E467) was carried out on the 1st Oct 2009. Access was later granted to Sub-area 23 (Cloghran townland) which was tested at the later date of 21<sup>st</sup> – 22<sup>nd</sup> January 2010. The methodology of the investigation complied with the Policy and Guidelines on Archaeological Excavation (Dúchas 1999) and the specification, terms and conditions of the Contract between the RPA and Headland Archaeology (Ireland) Ltd. The work was undertaken in accordance with the Code of Practice agreed between the DoEHLG and the Railway Procurement Agency.

Testing Area 9, Sub-areas 22 and 23 encompassed approximately 26,782 m<sup>2</sup>. A total of 1,538.50 linear metres of test trench was excavated totalling 11.4 % of the testing area (Appendix 1). Testing was in the form of mechanically excavated test trenches. These were excavated using a mechanical tracked excavator (generally 13.5–18 tonne) with a toothless ditching / grading bucket under the direct and continuous supervision of the director and supervisor. This work was overseen by the Headland Archaeology Senior Archaeologist Patricia Long. One archaeological assistant was employed to assist the licensed director and the supervisor with the recording of the trenches and the features identified within them.

The layout of the test trenches was designed to test the features of archaeological potential identified in the geophysical survey. A total of 24 trenches, generally set at a distance of 10– 15 m apart, were excavated throughout Sub-areas 22 and 23 which comprised Testing Area 9 (Figure 2). As stated above the pattern of test trenches was pre-determined, however a number of changes to the trench layout had to be implemented during the course of fieldwork. The presence of a substantial modern refuse heap in the southeast corner of Sub-area 23 resulted in the loss of 60 m of the southern part Test Trench 1, and 10 m of Test Trenches 3 and 4 could not be excavated to subsoil due to the identification of a modern agricultural water pipe running east/west across the southern part of this area (Sub-area 23). Two additional trenches; Test Trench 6 and 13 were excavated in Sub-area 23. Test Trench 6 was excavated perpendicular to Test Trench 5 to obtain information relating to the townland boundary HC#417 and Test Trench 13 was excavated to compensate for the loss of the southern section of Test Trench 1 (Figure 2).

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*Where features of archaeological potential were identified, mechanical excavation ceased and the features were cleaned back and tested by hand. The purpose of the testing was to establish the nature and extent of the archaeological deposits and features present. With this in mind, partial excavation and half-sectioning of features was undertaken where appropriate but every effort was made to preserve the stratigraphical integrity of archaeological sites/features. All features of archaeological potential were sectioned to ascertain their significance. If a feature was deemed to be non-archaeological due to its character or the presence of modern datable material no detailed recording was undertaken, but notes were made on the trench sheets contained within the site archive.*

### *Recording*

Unique numbers were given to all contexts of archaeological potential and small finds identified during archaeological test trenching. Prefixes were not used by Headland Archaeology (Ireland) Ltd but context numbers are illustrated throughout the report in brackets e.g. (001). Digital photographs were taken of each field, trench and feature. All trenches were surveyed using Trimble GPS surveying equipment with accuracy levels within 3 mm for the duration of the project. All recording was undertaken on Headland Archaeology (Ireland) Ltd *pro forma* record cards. All archaeologically significant features have been related to Ordnance Datum and the Irish National Grid as per RPA Project Control.

### *Environmental Samples*

No environmental samples were taken during the course of archaeological test trenching at Testing Area 9.

### *Finds Retrieval*

No finds were retrieved during the course of archaeological test trenching at Testing Area 9.

#### *6.1 Methodology for recording townland boundaries*

The recording of the townland boundary consisted of a photographic survey of the length of the boundary that would be impacted by the Metro North Scheme (Plates 6-12). Measurements were taken at a series of locations along the boundary and a written description was compiled. In accordance with the method statement

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submitted for the excavation licence a single test trench (Sub-area 23 Test Trench 6) was also excavated as close to the townland boundary as possible. Given the depth of the ditch and active stream, it was not possible to excavate a trench through the townland boundary.

## **7.0 RESULTS (Plates 1-5)**

A total of 24 test trenches were mechanically excavated in two fields (Sub-areas 22 and 23) that comprised Testing Area 9, totalling approximately 1,538.50 linear metres of 2 m wide test trenches; an area measuring 3077 m<sup>2</sup>. This comprised 11.40% of Testing Area 9 an area of 26,782 m<sup>2</sup> (Figure 2).

The test trenches were excavated to an average depth of 0.44 m (maximum 1.50 m excavated within the southern part of Sub-area 23 and associated with modern backfilled material) exposing the underlying subsoil. This material varied over the site from light orange brown clayey silt in to mid-orange sandy silt. The subsoil on either side of the townland boundary HC#417 consisted of dense orange grey marl clay which was compact and moderately dry. The varying trench depth was due to the presence of modern construction refuse, general household waste and scrap metal which had been backfilled within Sub-area 23. An intermittent and varying in depth ploughsoil was identified in Sub-area 22. This was identified beneath the topsoil layer and consisted of mid-brown coloured sandy clay with occasional small sub-angular stone inclusions up to 2cm across. Some larger stones up to 6cm in length were also present. The stone inclusions accounted for between 10% and 20% of the ploughsoils overall composition.

Features identified within Testing Area 9 generally comprised post-medieval linear furrows, earthen and stone land drains and a number of backfilled ditches all orientated approximately north/south.

No features of archaeological significance were identified in any of the excavated Test Trenches. A full description of all trenches and identified features is included in Appendix 2.

### *Townland boundary between Fosterstown South and Cloghran (Plates 6-12)*

A survey of 100 m of the townland boundary between Fosterstown South and Cloghran (HC#417) was carried out along its northern and southern sides in Testing

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Area 9. The boundary followed the course of a stream which formed a section of the River Sluice. It consisted of a stream within a deep ditch with semi mature trees and hedge plants growing on either side of the riverbank. The riverbanks had a steep slope, and rose 3.5 m from the level of the stream, which had a width of 7 m. They were overgrown with a variety of flora, including (in descending order of frequency): nettles (*Urtica dioica*) a likely coloniser; brambles (*Rubus fruticosus*) also a likely coloniser; ivy (*Hedera helix*), also a likely coloniser rather than a deliberate cultivar; mature blackthorns (*Prunus spinosa*), which were sporadically located along the bank; mature ash (*Fraxinus excelsior*), Sycamore (*Acer pseudoplatanus*) and Beech (*Fagus sylvatica*). The trees were predominantly located on the northern bank of the stream. No existing breaks were present in the boundary.

#### *7.1 Interpretative assessment of the geophysical survey anomalies in Testing Area 9, Sub-area 22*

The features of archaeological potential and the ferrous anomalies noted in the geophysical survey were identified during the course of archaeological test trenching as the remains of agricultural activity, namely land clearance, land improvement (drainage) and cultivation. Specifically, the linear trends were the result of numerous plough furrows and land drains, and an occasional stone socket resulting from field clearance. Such linear agricultural features were aligned in a manner that coincided with the surviving upstanding fields and/or with the field systems represented on nineteenth-century Ordnance Survey maps. Most demonstrated physical characteristics (degree of straightness, spacing, etc.) clearly indicative of a mechanised origin and post-agricultural improvement (i.e. post c.AD1750) process. In some instances, materials observed in the fills of the features confirmed a late post-medieval or modern origin (e.g. late transfer-printed ceramic, kiln-fired brick fragments, ceramic drain pipes, plastic sheeting, iron/steel fragments from modern farm machinery, etc.), and no finds indicated a date prior to the end of the eighteenth century at the earliest.

The geophysical anomalies resulting from elevated magnetic responses proved to be the result of variation in the natural subsoil, namely: pockets of more water-‘transmissive’ glacial sands and gravels; more impermeable clays in poorly drained locations where the soils had begun to gley and/or mineral pan (Fe and Mg) had begun to form. In limited instances this type of geophysical anomaly also partly

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correlated to the aforementioned late post-medieval/modern agricultural features described above.

In this landscape history context, late post-medieval and modern agricultural features are not considered to be archaeologically significant.

## **8.0 IMPACT ASSESSMENT**

As Testing Area 9 incorporates the proposed footprint of the Metro North alignment and compound area for the north portal tunnel, any sub-surface archaeology would be subject to direct negative impact by the site preparation works (including removal of topsoil) and any sub-structure associated with the lines. However, no significant archaeological features were identified during the course of archaeological test trenching at Testing Area 9.

Approximately 100 m of the townland boundary between Fosterstown South and Cloghran (HC#417; CRDS 2008), outlined in the results section above, will be directly impacted upon by the proposed scheme as the main alignment corridor will extend through where this part of the boundary now stands. The boundary/stream will be completely removed/altered.

## **9.0 PROPOSED MITIGATION**

Test trenching did not reveal any finds or features of archaeological significance and no further mitigation is recommended in Area 9.

The Townland Boundary is physically represented by a natural watercourse and there is no evidence of human alteration to it within Area 9. Therefore the portion of the boundary within Area 9 is not an archaeological feature. The part of the Fosterstown South/Cloghran townland boundary within Testing Area 9 that will be impacted upon by the proposed depot has been fully recorded. No further archaeological work is therefore recommended in relation to it.

These recommendations are provisional and subject to review/approval by the RPA Project Archaeologists and the National Monuments Service, Department of the Environment, Heritage and Local Government.

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### *Cartographic sources*

6" 1<sup>st</sup> Edition Ordnance Survey maps, 1843,

6" 2<sup>nd</sup> Edition Ordnance Survey maps, 871-5

6" 3<sup>rd</sup> Edition Ordnance Survey Map, Dublin, 1906–1908

Record of Monuments and Places Constraint Map, Dublin

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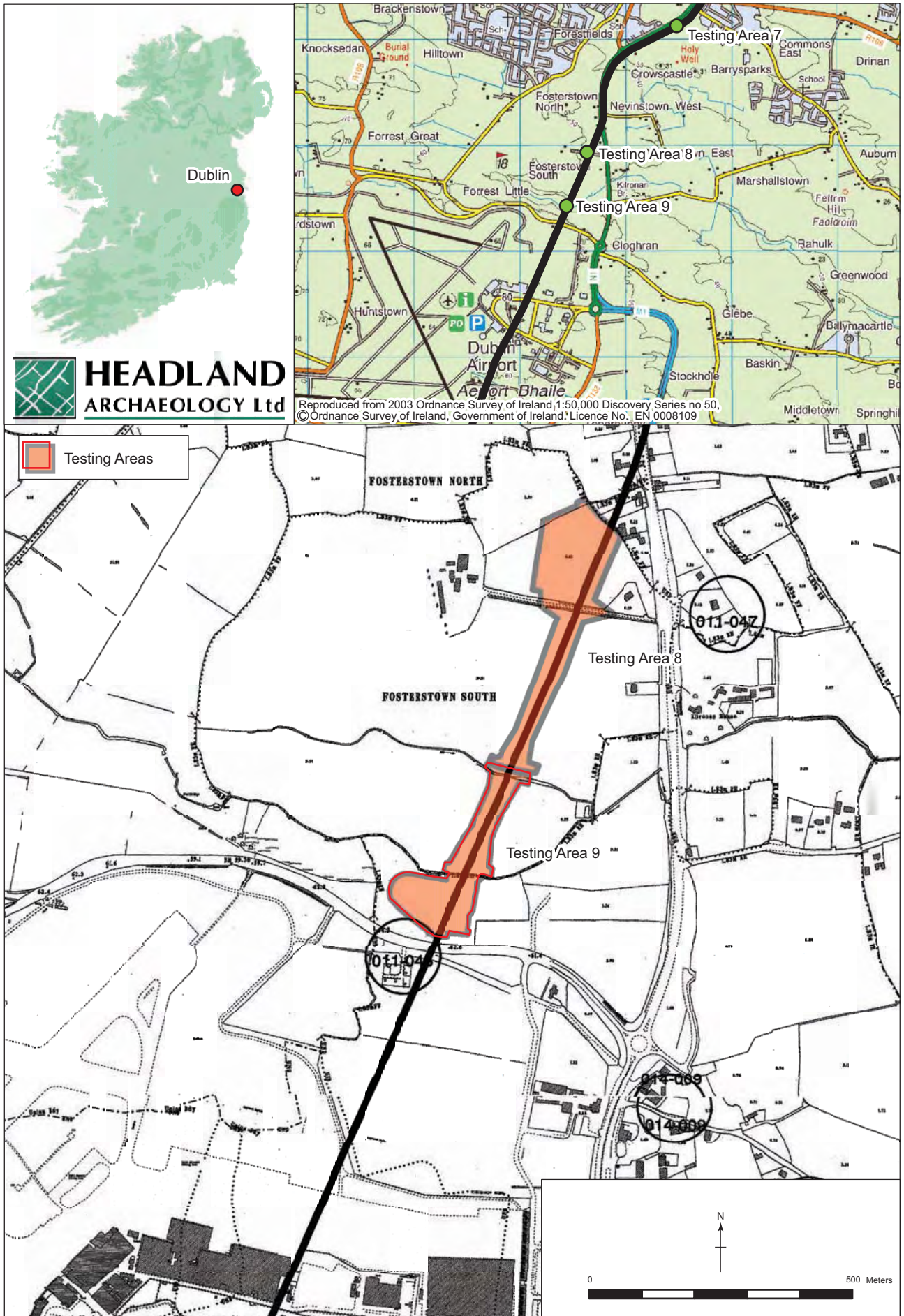
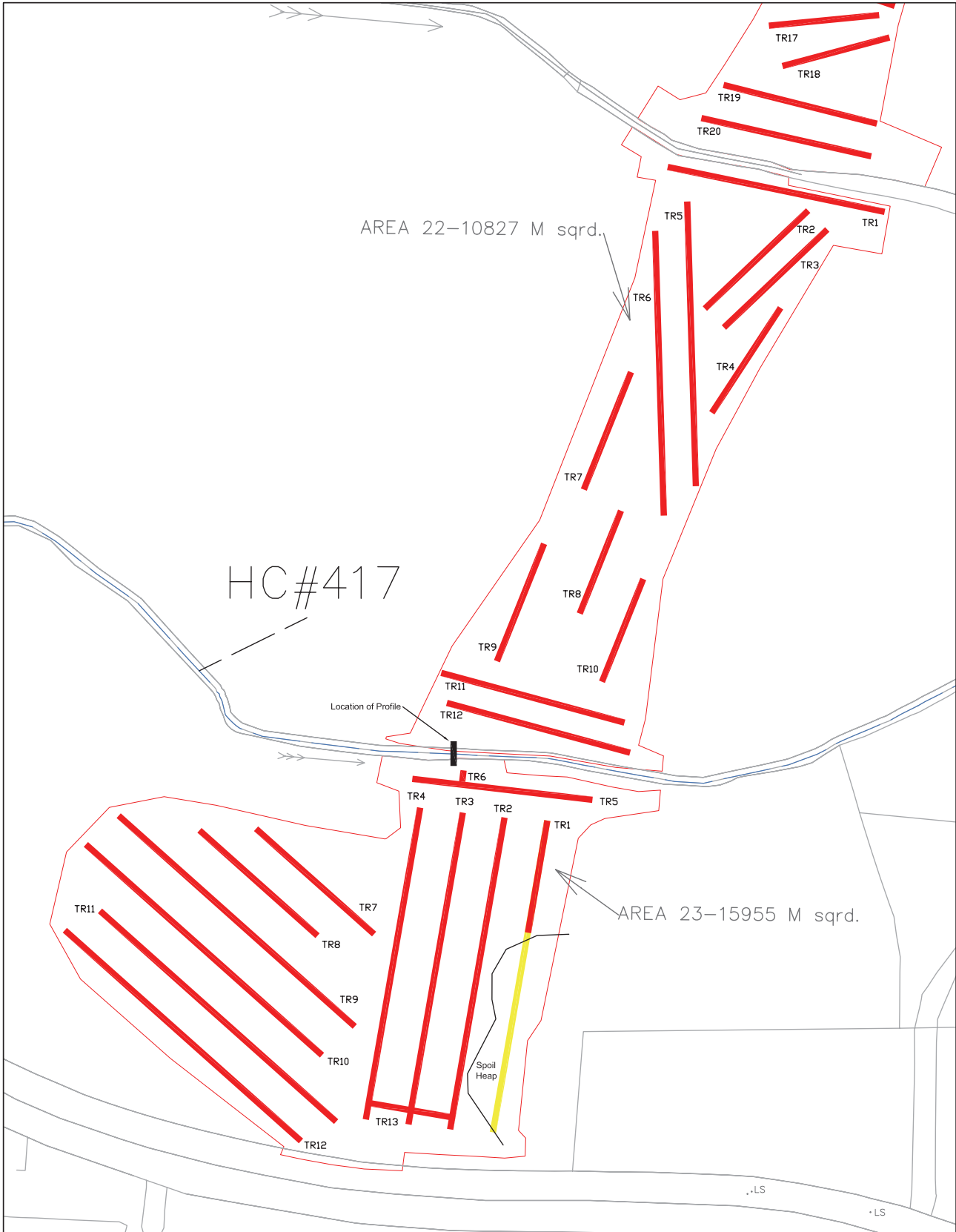


Figure 1 - Advance Archaeological Test Trenching of Metro North: Testing Area 9, Fosterstown South and Cloghran townlands, Co. Dublin, RPA ref: (MN102/MN103) South of Fosterstown to Dublin Airport Boundary (North)/Dublin Airport. Testing Area 9 (Sub-area 22 and 23) Location including RMP extract.





<b>LEGEND</b>		ESB Power Lines	(011) Context Numbers
1:1250 Scale	Excavated Test Trenches	T R 11 Trench Numbers	
Archaeology	Non-Excavated Test Trenches	Townland Boundary	

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Figure 2 - Advance Archaeological Test Trenching of Metro North: Testing Area 9, Fosterstown South and Cloghran townlands, Co. Dublin, RPA ref: (MN102/MN103) South of Fosterstown to Dublin Airport Boundary (North)/Dublin Airport. Testing Area 9 (Sub-area 22 and 23) Trench layout.

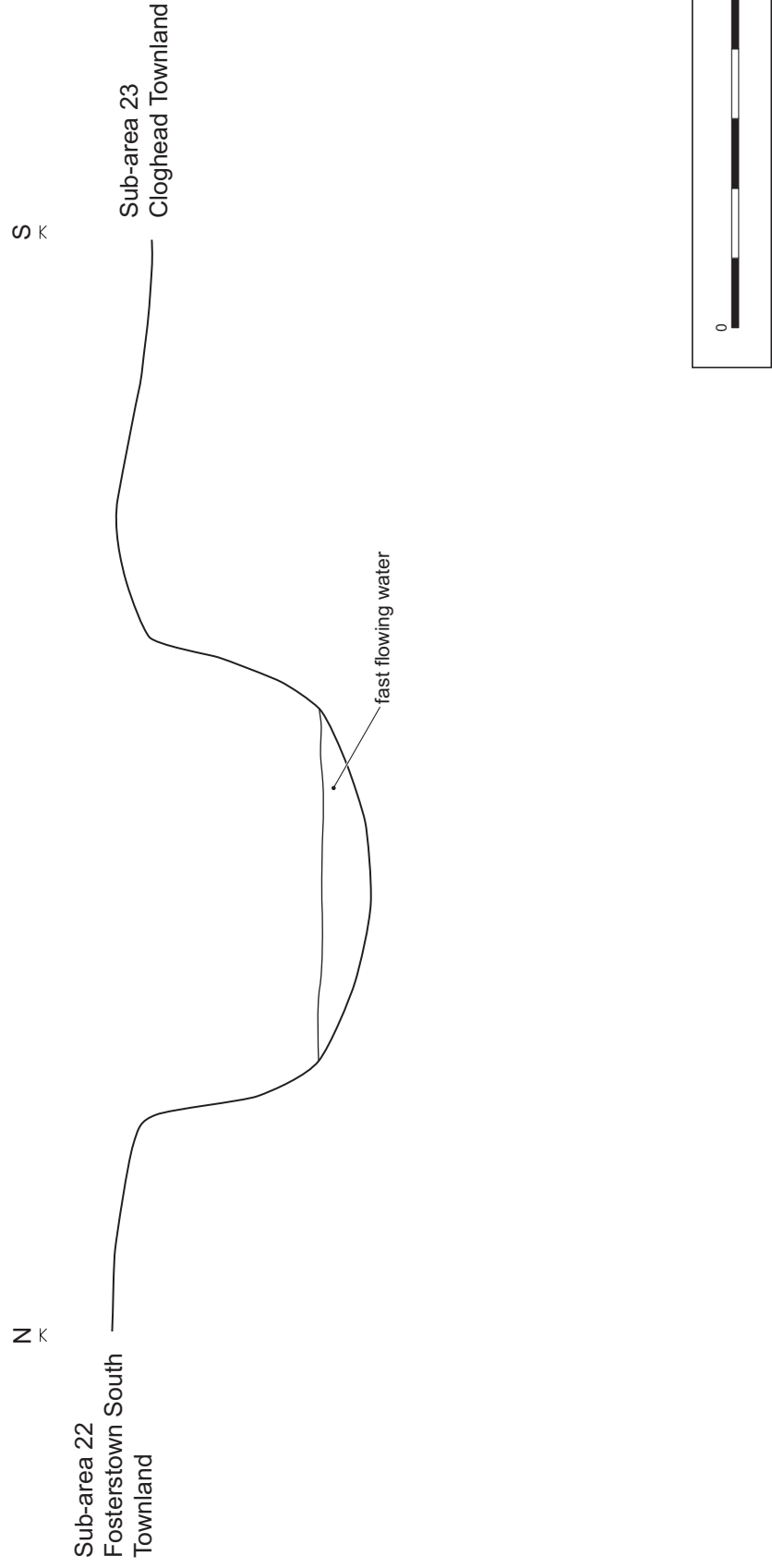


Figure 3 - Advance Archaeological Test Trenching of Metro North: Testing Area 9, Fosterstown South and Cloghran townlands, Co. Dublin, RPA ref: (MN102/MN103) South of Fosterstown to Dublin Airport Boundary (North)/Dublin Airport. West-facing profile of townland boundary HC#417.



Plate 1 - General photograph of Test Trench 3, Sub-area 22 showing field drain in foreground, looking northeast



Plate 2 - General photograph of Test Trench 4, Sub area 22 showing furrow in foreground, looking northeast



Plate 3 - General photograph of Test Trench 9 showing field boundary ditch (003)



Plate 4 - General photograph of modern refuse heap in southeast corner of Sub-area 23.



Plate 5 - Photograph of modern backfilled refuse and construction rubble within Test Trench 9.



Plate 6 - Photograph along the north side (Sub-area 22) of Townland boundary (HC#417), looking east.



Plate 7 - Photograph along the north side (Sub-area 22) of Townland boundary (HC#417), looking east.



Plate 8 - Photograph of fast moving stream within the Townland boundary ditch (HC#417), looking southwest (Sub-area 22).



Plate 9 - Photograph along the south side (Sub-area 23) of Townland boundary (HC#417), looking east.

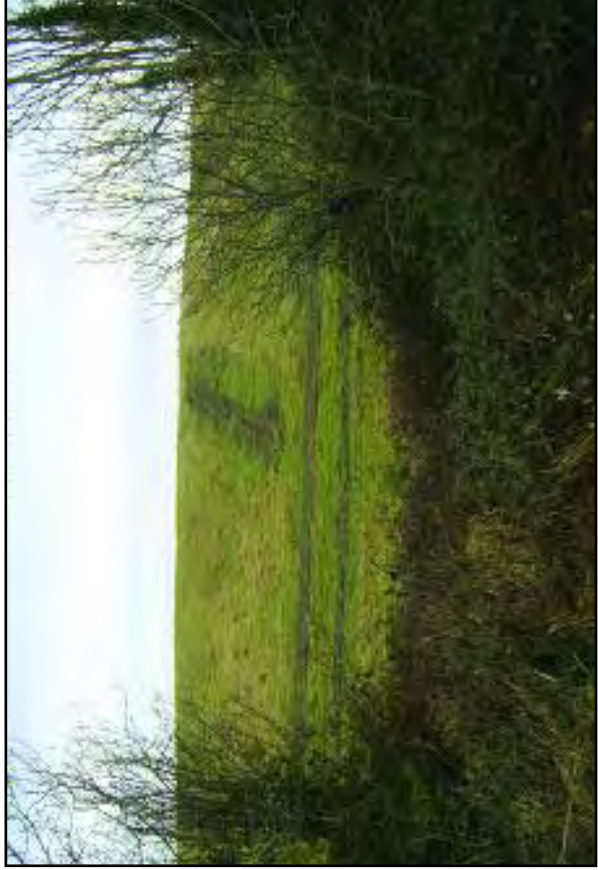


Plate 10 - Location of attempted section across Townland boundary (HC#417; Sub-area 23), looking north.



Plate 11 - Photograph of the recording of townland boundary in progress (HC#417; Sub-area 23) looking north northeast.



Plate 12 - Photograph of fast flowing stream at base of townland boundary (HC#417) ditch (Sub-area 23) looking northeast.

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### Appendix 1: Field Register

Testing Area	Sub-area	Townland(s)	Description	Total Linear Metres	Services Present
9	22	Fosterstown South	Field under grass pastureland at time of excavation of test trenches.	625 m	None
9	23	Cloghran	Field under rough overgrown grass pastureland at time of excavation of test trenches.	913.50 m	East/West Water pipe identified along southernmost section of Sub-area 23 resulting in 10 m loss of T3 and T4. Large modern spoil heap also present in SE corner obliged the omission of 60 m of T1
			Total	1538.50 m	

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## Appendix 2: Trench Register

Testing Area	Sub-area	Trench No.	Length (m)	Width (m)	Depth (m)	Orientation	Description	Summary of Features
9	22	1	70.00	2.00	0.40	WNW/ESE	<p><b>Topsoil (001):</b> Mid- brown sandy clay with moderate occurrence of small and medium sized sub-angular stone inclusions.</p> <p><b>Subsoil (002):</b> Yellowish brown boulder clay with inclusions of decayed stone.</p> <p><b>No features of archaeological significance identified.</b></p>	<ul style="list-style-type: none"> <li>Linear ditch orientated N/S, was located 9.90 m from the WNW end of the test trench. The ditch was filled with modern refuse and was not half sectioned.</li> </ul>
9	22	2	45.00	2.00	0.44	NE/SW	<p><b>Topsoil (001):</b> Mid- brown sandy clay with moderate occurrence of small and medium sized sub-angular stone inclusions.</p> <p><b>Subsoil (002):</b> Yellowish brown boulder clay with inclusions of decayed stone.</p> <p><b>No features of archaeological significance identified.</b></p>	<ul style="list-style-type: none"> <li>Three linear furrows orientated N/S and one orientated NW/SE were located throughout the trench. Their average measurement was 0.50 m in width, with a maximum depth of 0.18 m. They were filled with loose and friable mid-brown</li> </ul>



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Testing Area	Sub-area	Trench No.	Length (m)	Width (m)	Depth (m)	Orientation	Description	Summary of Features
9	22	3	45.00	2.00	0.55	NE/SW	<p><b>significance identified.</b></p> <p><b>Topsoil (001):</b> Mid- brown sandy clay with moderate occurrence of small and medium sized sub-angular stone inclusions.  <b>Subsoil (002):</b> Yellowish brown boulder clay with inclusions of decayed stone.  <b>No features of archaeological significance identified.</b></p>	<p>silty clay with sub-angular stone inclusions.</p> <ul style="list-style-type: none"> <li>Area of modern disturbance was located 13.40 m from the SW end of the test trench.</li> <li>Two stone field drains orientated N/S and located 21 m and 26 m from the NE end of the test trench. They were filled with mid-brown silty clay and frequent stone inclusions, which measured 0.08 m and greater. Not half sectioned.</li> <li>A furrow orientated NW/SE was located 2.7 m from the NE end of the test trench. Measured 0.7 m wide. Filled with light brown sterile silty clay, which was</li> </ul>

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Testing Area	Sub-area	Trench No.	Length (m)	Width (m)	Depth (m)	Orientation	Description	Summary of Features
9	22	4	40.00	2.00	0.42	NNE/SSW	<p><b>Topsoil (001):</b> Mid-greyish brown sandy silt.</p> <p><b>Subsoil (002):</b> Brownish orange sandy silt with moderate occurrence of decayed stone and frequent gravel inclusions towards the SSW extent of the test trench.</p> <p><b>No features of archaeological significance identified.</b></p>	<p>similar to the natural subsoil.  Not half sectioned.</p> <ul style="list-style-type: none"> <li>Linear feature orientated NE/SW and located 26 m from the NE end of the test trench. Filled with sterile orange silty clay. Not half sectioned.</li> </ul> <ul style="list-style-type: none"> <li>One furrow orientated NE/SW and located 10 m from NNE end of the test trench. Measured 0.50 m in width. Filled with light brownish orange sandy silt. Not half sectioned.</li> <li>Two furrows orientated NW/SE and located c.20 m from the NNE end of the test trench. Not half sectioned.</li> </ul>

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Testing Area	Sub-area	Trench No.	Length (m)	Width (m)	Depth (m)	Orientation	Description	Summary of Features
9	22	5	90.00	2.10	0.48	NNW/SSE	<p><b>Topsoil (001):</b> Mid-greyish brown sandy silt.</p> <p><b>Subsoil (002):</b> Light orange clayey silt towards the SSE extent of the trench and mid brown silty clay present in the rest of the test trench.</p>	<ul style="list-style-type: none"> <li>Linear orientated NW/SE located 30 m from the NNE end of the test trench. Measured 0.60 m wide. Possible wide agricultural furrow. Not half sectioned.</li> <li>Linear orientated E/W located 23 m from the NNE end of the test trench. Measured c. 80 m in width. Possible wide agricultural furrow. Not half sectioned.</li> <li>Three linear features orientated N/S and located 59 m, 40 m and 6 m from the NNW end of the test trench. The first measured 1.10 m in width and the second measured 0.70 m in width and the third was 0.50 m</li> </ul>

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Testing Area	Sub-area	Trench No.	Length (m)	Width (m)	Depth (m)	Orientation	Description	Summary of Features
							No features of archaeological significance identified.	<p>wide. The first two linear features were filled by light brownish orange clayey silt. They were possible wide agricultural furrows. Not half sectioned.</p> <ul style="list-style-type: none"> <li>Linear feature orientated E/W 3 m from the SSE extent of the test trench. Measured 1.2 m in width. Filled with light brown sandy silt. Not half sectioned.</li> <li>Sub-oval area of burning located 31 m from the NNW extent of the trench. Root burning.</li> </ul>
9	22	6	90.00	2.10	0.46	NNW/SSE	<p><b>Topsoil (001):</b> Mid-greyish brown sandy silt.  <b>Subsoil (002):</b> Mid orange sandy silt</p>	<ul style="list-style-type: none"> <li>Two linear stone drains orientated E/W were located in the northern half of the test</li> </ul>

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Testing Area	Sub-area	Trench No.	Length (m)	Width (m)	Depth (m)	Orientation	Description	Summary of Features
9	22	7	40.00	2.00	0.40	NNE/SSW	<p>with frequent stone inclusions. The natural subsoil in the SSE extent of the trench had been disturbed.</p> <p><b>No features of archaeological significance identified.</b></p>	trench. Not half sectioned
							<p><b>Topsoil (001):</b> Mid- brown sandy clay with moderate occurrence of small and medium sized sub-angular stone inclusions.</p> <p><b>Subsoil (002):</b> Yellowish brown boulder clay with inclusions of decayed stone.</p> <p><b>No features of archaeological significance identified.</b></p>	<ul style="list-style-type: none"> <li>No features present within the test trench.</li> </ul>
9	22	8	35.00	2.00	0.40	NNE/SSW	<p><b>Topsoil (001):</b> Mid- brown sandy clay with moderate occurrence of small and medium sized sub-angular stone inclusions.</p>	<ul style="list-style-type: none"> <li>Two furrows orientated N/S located 25 m and 26 m from the NNE end of the test trench. Shallow furrows filled with mid</li> </ul>

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Testing Area	Sub-area	Trench No.	Length (m)	Width (m)	Depth (m)	Orientation	Description	Summary of Features
9	22	9	40.00	2.00	0.40	NNE/SSW	<p><b>Subsoil (002):</b> Yellowish brown boulder clay with inclusions of decayed stone.</p> <p><b>No features of archaeological significance identified.</b></p>	<p>brown silty clay. Not half sectioned.</p>
							<p><b>Topsoil (001):</b> Mid- brown sandy clay with moderate occurrence of small and medium sized sub-angular stone inclusions.</p> <p><b>Subsoil (002):</b> Yellowish brown boulder clay with inclusions of decayed stone.</p> <p><b>No features of archaeological significance identified.</b></p>	<ul style="list-style-type: none"> <li>No features present within the test trench.</li> </ul>
9	22	10	30.00	2.00	0.50	NNE/SSW	<p><b>Topsoil (001):</b> Mid- brown sandy clay with moderate occurrence of small and medium sized sub-angular stone inclusions.</p> <p><b>Subsoil (002):</b> Yellowish brown boulder</p>	<ul style="list-style-type: none"> <li>Stone drain orientated NNW/SSE located 0.7 m from the NNE end of the test trench. Filled with a mid brown silty clay with frequent angular and</li> </ul>

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Testing Area	Sub-area	Trench No.	Length (m)	Width (m)	Depth (m)	Orientation	Description	Summary of Features
9	22	11	50.00	2.00	0.50	WNW/ESE	<p>clay with inclusions of decayed stone.</p> <p><b>No features of archaeological significance identified.</b></p> <p><b>Topsoil (001):</b> Mid- brown sandy clay with moderate occurrence of small and medium sized sub-angular stone inclusions.</p> <p><b>Subsoil (002):</b> Compact marl boulder clay.</p> <p><b>No features of archaeological significance identified.</b></p>	<p>sub-angular stone inclusions.</p> <ul style="list-style-type: none"> <li>Furrow orientated NNW/SSE, located 15.7 m from the NNE end of the trench. Filled with a mid brown silty clay.</li> <li>Modern machine cut drainage ditch orientated NNE/SSW and located 9.90 m from the ESE end of the test trench. Measured 1.80 m in width and filled by plastic marl clay with large stone inclusions.</li> <li>Three furrows orientated NNE/SSW and E/W and N/S. The first was located 17.20 m from the ESE end of the test trench. Measured 0.07 m in depth and was filled by dense</li> </ul>

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Testing Area	Sub-area	Trench No.	Length (m)	Width (m)	Depth (m)	Orientation	Description	Summary of Features
9	22	12	50.00	2.00	0.40	WNW/ESE	<b>Topsoil (001):</b> Mid- brown sandy clay with moderate occurrence of small and	<p>grey silty clay with frequent inclusions of small stones. The second furrow was located 21.60 m from the ESE end of the test trench and measured 0.50 m and was filled by mid brown silty clay with inclusions of modern pottery and animal bone. The third furrow was located 30.70 m from the ESE end of the test trench and cut the second furrow described above. The third furrow measured 1.80 m in width and 0.27 m in depth and was filled by dark brown silty clay with occasional charcoal flecks.</p> <ul style="list-style-type: none"> <li>Stone drain orientated E/W and located 19.6 m from the WNW</li> </ul>



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Testing Area	Sub-area	Trench No.	Length (m)	Width (m)	Depth (m)	Orientation	Description	Summary of Features
							<p>medium sized sub-angular stone inclusions.</p> <p><b>Subsoil (002):</b> Yellowish brown boulder clay with inclusions of decayed stone.</p> <p><b>No features of archaeological significance identified.</b></p>	<p>end of the test trench. Filled by brown silty clay with frequent sub-angular stone inclusions. Not half sectioned.</p> <ul style="list-style-type: none"> <li>Post 19<sup>th</sup> century linear ditch orientated NNE/SSW located 31.3 m from the WNW end of the test trench. Measured 1.8 m in width and was filled by light brown silty clay with occasional glass, pots-medieval pottery and wood inclusions. Not half sectioned.</li> <li>Linear ditch orientated NNE/SSW and located 56.6 m from the WNW end of the test trench. Measured 1.1 m in width and was filled by sterile orange clay with frequent sub-</li> </ul>

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9	23	1	40.00	2.00	0.70	NNE/SSW	<p><b>Topsoil (001):</b> Mid brown sandy silt with moderate occurrence of medium and small sub-angular stone.</p> <p><b>Natural Subsoil (002):</b> Mid-brown silty clay with bands of orange brown coarse grained silty clay also noted.</p> <p><b>No features of archaeological significance identified.</b></p>	<p>angular stone inclusions. Not half sectioned.</p> <ul style="list-style-type: none"> <li>No features were identified within the trench</li> </ul>
9	23	2	100.00	2.00	0.90	NNE/SSW	<p><b>Topsoil (001):</b> Disturbed ground: backfilled modern refuse and construction debris mixed with a mid brown sticky silty clay.</p> <p><b>Natural Subsoil (002):</b> Mid-brown silty clay with bands of yellow brown coarse grained silty clay with frequent inclusions</p>	<ul style="list-style-type: none"> <li>An east/west orientated ditch (former field boundary) (003). It measured 1.90 m in width by 0.5 m in depth. It was filled by a single fill (004); a dark grey sandy silt. A stone lined land drain was noted along the</li> </ul>

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Testing Area	Sub-area	Trench No.	Length (m)	Width (m)	Depth (m)	Orientation	Description	Summary of Features
9	23	3	90.00	2.00	0.80	NNE/SSW	<p>of decayed stone also noted.</p> <p><b>No features of archaeological significance identified.</b></p> <p><b>Topsoil (001):</b> Disturbed ground: backfilled modern refuse and construction debris mixed with mid brown sticky silty clay.</p> <p><b>Natural Subsoil (002):</b> Mid-brown silty clay with bands of yellow brown coarse grained silty clay with frequent inclusions of decayed stone also noted.</p> <p><b>No features of archaeological significance identified.</b></p>	<p>southern edge of the feature.</p> <ul style="list-style-type: none"> <li>An east/west orientated ditch (former field boundary) (003) was identified 15 m from the southern end of the trench. It measured 1.90 m in width by 0.5 m in depth. It was filled by a single fill (004); a dark grey sandy silt. A stone lined land drain was noted along the southern edge of the feature.</li> </ul>
9	23	4	90.00	2.00	1.20	NNE/SSW	<p><b>Topsoil (001):</b> Disturbed (modern refuse) dark brown sandy silt with inclusions of construction rubble, metal and plastic located at the southern end</p>	<ul style="list-style-type: none"> <li>The east/west orientated ditch (former field boundary) (003) that was identified in Trench 3 was also noted in Trench 4. It</li> </ul>

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South of Fosterstown to Dublin Airport Boundary (North)/Dublin Airport

Testing Area	Sub-area	Trench No.	Length (m)	Width (m)	Depth (m)	Orientation	Description	Summary of Features
9	23	5	60.00	2.00	0.80	E/W	<p>of the trench.</p> <p><b>Natural Subsoil (002):</b> Dark grey brown sandy silt with frequent decayed stone.</p> <p><b>No features of archaeological significance identified.</b></p>	<p>was located 14 m from the southern end of the trench.</p>
9	23	6	3.50	2.00	0.90	NNE/SSW	<p><b>Topsoil (001):</b> Mid orange brown sandy silt</p> <p><b>Natural Subsoil (002):</b> Light grey orange silty clay, frequent patches of grey gravel noted towards the western end of trench.</p> <p><b>No features of archaeological significance identified.</b></p>	<ul style="list-style-type: none"> <li>No features were identified</li> </ul>
9	23	6	3.50	2.00	0.90	NNE/SSW	<p><b>Topsoil (001):</b> Mid orange brown sandy silt.</p> <p><b>Natural Subsoil (002):</b> Light grey orange silty clay, frequent patches of</p>	<ul style="list-style-type: none"> <li>Trench 6 was excavated perpendicular to Trench 5 and positioned as closely as possible to TB HC#417. No</li> </ul>

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Testing Area	Sub-area	Trench No.	Length (m)	Width (m)	Depth (m)	Orientation	Description	Summary of Features
9	23	7	50.00	2.00	0.50	NW/SE	<p>grey gravel noted towards the western end of trench.</p> <p><b>No features of archaeological significance identified.</b></p> <p><b>Topsoil (001):</b> Mid-dark brown silty clay, with occasional small angular stones.</p> <p><b>Natural Subsoil (002):</b> Mid brown orange sandy clay with frequent decayed stone.</p> <p><b>No features of archaeological significance identified.</b></p>	<p>features were identified in the excavated trench.</p> <ul style="list-style-type: none"> <li>No features were identified within the test trench.</li> </ul>
9	23	8	50.00	2.00	0.50	NW/SE	<p><b>Topsoil (001):</b> Mid-dark brown silty clay, with occasional small angular stones.</p> <p><b>Natural Subsoil (002):</b> Mid brown orange sandy clay with frequent decayed stone.</p> <p><b>No features of archaeological significance identified.</b></p>	<ul style="list-style-type: none"> <li>N/S Linear (plough furrow/land drain) was identified 9.00 m from SE end of trench. It measured 0.90 m in width by 0.20 m in depth and was filled by a light brown silty clay of</li> </ul>

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South of Fosterstown to Dublin Airport Boundary (North)/Dublin Airport

Testing Area	Sub-area	Trench No.	Length (m)	Width (m)	Depth (m)	Orientation	Description	Summary of Features
9	23	9	100.00	2.00	0.50	NW/SE	<p><b>significance identified.</b></p> <p><b>Topsoil (001):</b> Mid-dark brown silty clay, with occasional small angular stones.</p> <p><b>Natural Subsoil (002):</b> Mid brown orange sandy clay with frequent decayed stone.</p> <p><b>No features of archaeological significance identified.</b></p>	<p>moderate compaction.</p> <ul style="list-style-type: none"> <li>A series of N/S plough furrows (0.65 m in width by 0.20 m in depth, filled by a mid brown sandy silt), were identified in the NW section of the trench. .</li> <li>A N/S land drain (also identified in Trench 8), 0.45 m width by 0.15 m in depth was located 20.00 m from the Se end of the trench.</li> <li>An east/west orientated ditch (former field boundary) (003). It measured 1.90 m in width by 0.5 m in depth. It was filled by a single fill (004); a dark grey sandy silt. A stone lined land drain was noted along the</li> </ul>

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Testing Area	Sub-area	Trench No.	Length (m)	Width (m)	Depth (m)	Orientation	Description	Summary of Features
9	23	10	100.00	2.00	0.80	NW/SE	<p><b>Topsoil (001):</b> Dark brown sandy silt heavily disturbed by backfilled construction rubble and modern refuse (metal and plastic) throughout the trench.</p> <p><b>Natural Subsoil (002):</b> Mid grey brown silty clay.</p> <p><b>No features of archaeological significance identified.</b></p>	<p>southern edge of the feature.</p> <ul style="list-style-type: none"> <li>An east/west ditch (also noted in Trenches 2, 3, 4 and 9) (003) was identified 36 m from the SE end of the trench. It measured 2 m in width by 0.65 m in depth and was filled by a single fill; a mid brown sandy silt (004).</li> </ul>
9	23	11	100.00	2.00	1.25	NW/SE	<p><b>Topsoil (001):</b> Dark brown sandy silt heavily disturbed by backfilled construction rubble and modern refuse (metal and plastic) throughout the trench.</p> <p><b>Natural Subsoil (002):</b> Mid grey brown silty clay.</p>	<ul style="list-style-type: none"> <li>A north/south linear feature was identified 3 m from the SE end of the trench. It measured 1.3 m in width by 0.40 m in depth and was filled by a dark brown sandy silt and contained modern refuse in the form of</li> </ul>

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Testing Area	Sub-area	Trench No.	Length (m)	Width (m)	Depth (m)	Orientation	Description	Summary of Features
9	23	12	100.00	2.00	0.48	NE/SW	<p><b>No features of archaeological significance identified.</b></p> <p><b>Topsoil (001):</b> Dark brown sandy silt heavily disturbed by backfilled construction rubble and modern refuse (metal and plastic) throughout the entire trench.</p> <p><b>Natural Subsoil (002):</b> Mid grey brown silty clay.</p> <p><b>No features of archaeological significance identified.</b></p>	<p>iron bars, red brick, plastic and construction debris.</p> <ul style="list-style-type: none"> <li>No features were identified</li> </ul>
9	23	13	30.00	2.00	0.44	E/W	<p><b>Topsoil (001):</b> Dark brown sandy silt heavily disturbed by backfilled construction rubble and modern refuse (metal and plastic) throughout the trench.</p>	<ul style="list-style-type: none"> <li>No features were identified</li> </ul>



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Testing Area	Sub-area	Trench No.	Length (m)	Width (m)	Depth (m)	Orientation	Description	Summary of Features
							<p><b>Natural Subsoil (002):</b> Mid grey brown silty clay.</p> <p><b>No features of archaeological significance identified.</b></p>	

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### Appendix 3: Context Register

Context No.	Testing Area	Sub-area	Trench No.	Type (cut/fill/deposit)	Length (m)	Width (m)	Depth (m)	Description	Interpretation
(001)	9	All	All	Deposit	-	-	0.40 (ave)  1.30 (TT1-4 and TT9-13)	Mid-brown clay with frequent inclusions of humus elements and small stones.  A substantial amount of modern, construction and general household waste was identified within the topsoil (001) in the southern sector of Sub-area 23 within TT1, 2, 3, 4, 9, 10, 11, 12 & 13.	Topsoil (001) including plough zone
(002)	9	All	All	Deposit	-	-	-	Varying from Yellow brown to orange brown clay with occasional decayed limestone	Natural Subsoil (002)

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Context No.	Testing Area	Sub-area	Trench No.	Type (cut/fill/deposit)	Length (m)	Width (m)	Depth (m)	Description	Interpretation
(003)	9	23	2-4, 9 and 10	Cut	70.00	2.00	0.65	Linear in plan with a broad u-shaped profile, with sharp breaks of slope at the top and middle and a gradual break of slope at the base. The base was concave.	Former field boundary. (003) corresponds strongly to an east/west field boundary depicted in this location by the 1 <sup>st</sup> edition Ordnance Survey map of 1830.
(004)	9	23	2-4, 9 and 10	Fill	70.00	2.00	0.65	A dark grey sandy silt.	Fill within former field boundary that corresponds strongly to an east/west field boundary depicted in this location by the 1 <sup>st</sup> edition Ordnance Survey map of 1830.

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#### Appendix 4: Photo Register

Photo No.	Camera No.	Sub-Area	Trench No.	Townland	Direction Facing	Description
145	Casio 8c	22	1	Fosterstown South and Cloghran	ESE	General shot of test trench.
146	Casio 8c	22	3	Fosterstown South and Cloghran	NE	General shot of test trench.
147	Casio 8c	22	2	Fosterstown South and Cloghran	NE	General shot of test trench.
148	Casio 8c	22	7	Fosterstown South and Cloghran	NE	General shot of test trench.
149	Casio 8c	22	4	Fosterstown South and Cloghran	NE	General shot of test trench.
150	Casio 8c	22	5	Fosterstown South and Cloghran	N	General shot of test trench.
151	Casio 8c	22	10	Fosterstown South and Cloghran	SSW	General shot of test trench.
152	Casio 8c	22	6	Fosterstown South and Cloghran	NNW	General shot of test trench.
153	Casio 8c	22	12	Fosterstown South and Cloghran	ESE	General shot of test trench.
154	Casio 8c	22	11	Fosterstown South Cloghran	ESE	General shot of test trench.
155	Casio 8c	22	8	Fosterstown South and Cloghran	SSW	General shot of test trench.
156	Casio 8c	22	9	Fosterstown South and Cloghran	SSW	General shot of test trench.

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Photo No.	Camera No.	Sub-Area	Trench No.	Townland	Direction Facing	Description
0136	Casio 11c	23	1	Cloghran	N	General shot of Test Trench 1
0137	Casio 11c	23	2	Cloghran	N	Southernmost part of Test Trench 2
0138	Casio 11c	23	2	Cloghran	N	Northernmost part of Test Trench 2
0139	Casio 11c	23	3	Cloghran	N	Northernmost part of Test Trench 3
0140	Casio 11c	23	3	Cloghran	N	Northernmost part of Test Trench 3
0141	Casio 11c	23	N/A	Cloghran	NE	Townland boundary HC#417 and backfilled Test Trenches 1 and 2
0142	Casio 11c	23	N/A	Cloghran	NE	Townland boundary HC#417 and backfilled Test Trenches 1 and 2
0143	Casio 11c	23	N/A	Cloghran	NE	Townland boundary HC#417
0144	Casio 11c	23	N/A	Cloghran	NE	Townland boundary HC#417 and Test Trench 3
0145	Casio 11c	23	3	Cloghran	N	General shot of Test Trench 3 with TB HC#417 in background
0146	Casio 11c	23	N/A	Cloghran	NE	Townland boundary HC#417 and backfilled Test Trenches 1 and 2
0147	Casio 11c	23	3	Cloghran	N	Southernmost part of Test Trench 3
0148	Casio 11c	23	N/A	Cloghran	ENE	Townland boundary HC#417
0149	Casio 11c	23	N/A	Cloghran	ENE	Townland boundary

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Photo No.	Camera No.	Sub-Area	Trench No.	Townland	Direction Facing	Description
						HC#417
0150	Casio 11c	23	4	Cloghran	N	Southernmost part of Test Trench 4
0151	Casio 11c	23	4	Cloghran	N	Southernmost part of Test Trench 4
0152	Casio 11c	23	4	Cloghran	N	Southernmost part of Test Trench 4
0153	Casio 11c	23	N/A	Cloghran	N	View across TB HC#417
0154	Casio 11c	23	N/A	Cloghran	N	Flowing water within TB HC#417
0155	Casio 11c	23	N/A	Cloghran	N	Flowing water within TB HC#417
0156	Casio 11c	23	N/A	Cloghran	N	Flowing water within TB HC#417
0157	Casio 11c	23	6	Cloghran	N	South facing section of Test Trench 6 baulk adjacent to TB HC#417
0158	Casio 11c	23	N/A	Cloghran	NW	Recording of TB HC#417
0159	Casio 11c	23	N/A	Cloghran	NW	View across TB HC#417
0160	Casio 11c	23	N/A	Cloghran	NE	Flowing water within TB HC#417
0161	Casio 11c	23	N/A	Cloghran	NE	Flowing water within TB HC#417
0162	Casio 11c	23	N/A	Cloghran	NE	View across TB HC#417
0163	Casio 11c	23	6	Cloghran	N	General shot of Test Trench 6 (excavated adjacent to TB Hc#417)
0164	Casio 11c	23	6	Cloghran	N	General shot of Test Trench 6 (excavated

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Photo No.	Camera No.	Sub-Area	Trench No.	Townland	Direction Facing	Description
						adjacent to TB Hc#417)
0165	Casio 11c	23	5	Cloghran	N	General shot of Test Trench 5
0166	Casio 11c	23	5	Cloghran	E	General shot of Test Trench 5
0167	Casio 11c	23	N/A	Cloghran	SW	General shot of refuse spoil heap
0168	Casio 11c	23	N/A	Cloghran	SW	General shot of refuse spoil heap
0169	Casio 11c	23	N/A	Cloghran	E	General shot of refuse spoil heap
0170	Casio 11c	23	N/A	Cloghran	ENE	General shot of refuse spoil heap
0171	Casio 11c	23	N/A	Cloghran	N	View from Sub-area 23 to TA8, former trench scars visible
0172	Casio 11c	23	N/A	Cloghran	N	View from Sub-area 23 to TA8, former trench scars visible
0173	Casio 11c	23	1 & 2	Cloghran	N	Backfilled trenches (T1 – T2) with TB HC#417 in view
0174	Casio 11c	23	2, 3 & 4	Cloghran	NW	Backfilled trenches (T2 – T4) with TB HC#417 in view
0175	Casio 11c	23	2, 3 & 4	Cloghran	WNW	Backfilled trenches (T2 – T4) with TB HC#417 in view
0176	Casio 11c	23	N/A	Cloghran	SE	General shot of refuse spoil heap
0177	Casio 11c	23	N/A	Cloghran	S	General shot of damaged JB4 manhole coverings at site entrance

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Photo No.	Camera No.	Sub-Area	Trench No.	Townland	Direction Facing	Description
0178	Casio 11c	23	N/A	Cloghran	S	General shot of damaged JB4 manhole coverings at site entrance
0179	Casio 11c	23	1	Cloghran	N	Repaired water pipe within Test Trench 2
0180	Casio 11c	23	1	Cloghran	E	Repaired water pipe within Test Trench 2
0181	Casio 11c	23	1	Cloghran	SE	Repaired water pipe within Test Trench 2
0182	Casio 11c	23	1	Cloghran	E	Repaired water pipe within Test Trench 2
0183	Casio 11c	23	N/A	Cloghran	E	Fenced off damaged JB4 manhole coverings at site entrance
0184	Casio 11c	23	N/A	Cloghran	E	Fenced off damaged JB4 manhole coverings at site entrance
0185	Casio 11c	23	N/A	Cloghran	E	Fenced off damaged JB4 manhole coverings at site entrance
0186	Casio 11c	23	8	Cloghran	N	Plough furrow identified within Test Trench 8
0187	Casio 11c	23	8	Cloghran	NW	General shot of Test Trench 8
0188	Casio 11c	23	8	Cloghran	NW	General shot of Test Trench 8
0189	Casio 11c	23	8	Cloghran	NE	Plough furrow identified within Test Trench 8
0190	Casio 11c	23	8	Cloghran	NE	Plough furrow identified within Test Trench 8



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Photo No.	Camera No.	Sub-Area	Trench No.	Townland	Direction Facing	Description
0191	Casio 11c	23	9	Cloghran	SE	General shot of Test Trench 9
0192	Casio 11c	23	10	Cloghran	NW	Backfilled modern refuse within Test Trench 10
0193	Casio 11c	23	10	Cloghran	NW	Backfilled modern refuse within Test Trench 10
0194	Casio 11c	23	10	Cloghran	W	General shot showing depth of backfilled modern refuse within Test Trench 10
0195	Casio 11c	23	10	Cloghran	W	General shot showing depth of backfilled modern refuse within Test Trench 10
0196	Casio 11c	23	9	Cloghran	W	East facing section of (003) a post medieval field boundary within Test Trench 9
0197	Casio 11c	23	9	Cloghran	W	East facing section of (0030) a post medieval field boundary within Test Trench 9
0198	Casio 11c	23	9	Cloghran	NW	East facing section of (003) a post medieval field boundary within Test Trench 9
0199	Casio 11c	23	N/A	Cloghran	W	Repaired JB4 manhole coverings
0200	Casio 11c	23	N/A	Cloghran	W	Repaired JB4 manhole coverings
0201	Casio 11c	23	11	Cloghran	SE	General shot of Test Trench 11

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Photo No.	Camera No.	Sub-Area	Trench No.	Townland	Direction Facing	Description
0202	Casio 11c	23	11	Cloghran	SE	General shot of Test Trench 11
0203	Casio 11c	23	13	Cloghran	E	Additional Test Trench 13. Backfilled with modern construction debris
0204	Casio 11c	23	12	Cloghran	NW	Man made ground (construction refuse) within Test Trench 12
0205	Casio 11c	23	12	Cloghran	W	Man made ground (construction refuse) within Test Trench 12
0206	Casio 11c	23	12	Cloghran	W	Man made ground (construction refuse) within Test Trench 12
0207	Casio 11c	23	12	Cloghran	SSW	General shot of Test Trench 12
0208	Casio 11c	23	12	Cloghran	SW	General shot of Test Trench 12
0209	Casio 11c	23	11	Cloghran	W	East/west aligned gully backfilled with modern refuse material, Test Trench 11

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### **Appendix 5: Archive Quantities**

<b>Item</b>	<b>Quantity</b>
Context Sheets	4
Trench Record Sheets	24
Field record sheets	2
Drawings	0
Photographs	64
Registers	2
Notebooks	0