

















**Norwich to Tilbury** 

Interim Results of Geophysical Survey

**Client: National Grid** 

**July 2025** 

Norfolk, Suffolk, Colchester and Essex

Norfolk Consultation Number: CNF49718 Norfolk Event Number: ENF156675 Suffolk Parish Codes: TBC

Suffolk Parish Codes: PAL 080, BUR 063, CRP032, BRF 195, RAY 061, WMM 025, HSM 019, SSM 066, HGM 039, MLS 043, CRP 033, RGL 067, SPT 115, SSM 068

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#### 1 INTRODUCTION

- 1.1 This interim results table has been prepared by Headland Archaeology to current results of an ongoing geophysical (magnetometer) survey on land within the Order Limits of the Norwich to Tilbury Project. Norwich to Tilbury is being developed by National Grid Electricity Transmission plc (National Grid) and comprises reinforcement of the electricity transmission system in the East of England, from Norwich to Tilbury. It is a proposed 400 Kilovolt (kV) electricity transmission connection across the counties of Norfolk, Suffolk and Essex and several local authority boundaries over approximately 180km. This Nationally Significant Infrastructure Project (NSIP) would facilitate the transfer of power from the East Anglia region to the rest of the National Electricity Transmission System (NETS) thereby enabling connection of offshore wind generation, nuclear power generation and interconnectors which are expected into East Anglia by 2035.
- 1.2 The Project is a proposal by National Grid to upgrade the electricity transmission system in East Anglia between Norwich and Tilbury, comprising:
  - A new 400 kilovolt (kV) electricity transmission connection of approximately 180 km overall length from Norwich Main Substation to Tilbury Substation via Bramford Substation, a new East Anglia Connection Node (EACN) Substation and a new Tilbury North Substation, including:
    - Approximately 159 km of new overhead line supported on approximately 509 pylons, either standard steel lattice pylons (approximately 50 m in height) or low height steel lattice pylons (approximately 40 m in height) and some of which would be gantries (typically up to 15 m in height) within proposed Cable Sealing End (CSE) compounds or existing or proposed substations
    - Approximately 21 km of 400 kV underground cabling, some of which would be located through the Dedham Vale National Landscape (an Area of Outstanding Natural Beauty (AONB[1])
  - Up to seven new CSE compounds (with permanent access) to connect the overhead lines to the underground cables
  - Modification works to connect into the existing Norwich Main Substation and a substation extension at the existing Bramford Substation
  - A new 400 kV substation on the Tendring Peninsula, referred to as the EACN Substation (with a new permanent access). This is proposed to be an Air Insulated Switchgear (AIS) substation
  - A new 400 kV substation to the south of Orsett Golf Course in Essex, referred to as the Tilbury North Substation (with a new permanent access).
     This is proposed to be a Gas Insulated Switchgear (GIS) substation
  - Modifications to the existing National Grid Electricity Transmission overhead lines to facilitate the connection of the existing network into the new Tilbury North Substation to provide connection to the Tilbury Substation
  - Ancillary and/or temporary works associated with the construction of the Project.
- 1.3 In addition, third party utilities diversions and/or modifications would be required to facilitate the construction of the Project. There would also be land required for environmental mitigation and Biodiversity Net Gain (BNG).

- 1.4 As well as the permanent infrastructure, land would also be required temporarily for construction activities including, for example, working areas for construction equipment and machinery, site offices, welfare, storage and temporary construction access.
- 1.5 The results of the geophysical survey are to be submitted in support of the Environmental Impact Assessment (EIA), i.e., as part of the Environmental Statement Chapter (ES; National Grid forthcoming) and will inform the development of trial trenching and, where appropriate, mitigation for the Project.
- 1.6 The survey areas currently proposed have been identified as a priority due to either impact from proposed underground cable, cable sealing end compounds, construction compounds, substation works or due to the likely medium or high value of potential or known archaeological features located within the Order Limits.
- 1.7 The scheme of work will be undertaken in accordance with the requirements of the National Planning Policy Framework (MHCLG 2023) and the respective requirements for geophysical survey for each county and/or local authority (Norfolk County Council 2018 and Suffolk County Council, The Archaeological Service 2023).
- 1.8 The WSI is produced to the standards laid down in the European Archaeological Council's guideline publication EAC Guidelines for the Use of Geophysics in Archaeology (*Europae Archaeologia Consilium* 2016), the Chartered Institute for Archaeologists (ClfA) Standard and Guidance for Archaeological Geophysical Survey (ClfA 2020).

#### 2 DESCRIPTION OF THE SITE

- 2.1 The Order Limits of the Project comprise an irregular shaped route approximately 180km long across predominantly agricultural land in the counties of Norfolk, Suffolk and Essex. The northern limit of the Project is located south-west of Dunston approximately 6km south of the centre of Norwich at NGR 622078, 302905 and terminates at new Tilbury North Substation, NGR 566350, 180235. Between these end points the route heads from north to south roughly parallel and to the west of the A140 across south Norfolk, into Suffolk where the route heads south-west from Ipswich, around the northern limits of Colchester, before continuing south-west and then turning south around the west side of Chelmsford until terminating at the Tilbury North Substation, adjacent to Orsett Golf course.
- 2.2 The Order Limits of the Project comprises the main route of the Project, predominantly a 100m wide corridor but also a new substation site (AIS) (known as the East Anglia Connection Node (EACN) Substation) to be constructed on the Tendring Peninsula and many wider areas necessary for compounds and lay down areas and narrower corridors for access roads to facilitate construction of the Project.
- 2.3 Given the geographic scale of the Project and for consistency with previously produced documents the route of the Project is split into the eight sections: Sections A through to H. The eight geographical sections are based on local authority boundaries where possible. The eight sections are:

Section A: South Norfolk

Section B: Mid Suffolk

Section C: Babergh, Colchester and Tendring

Section D: Colchester

Section E: Braintree

Section F: Chelmsford

Section G: Basildon and Brentwood

Section H: Thurrock

- 2.4 For each section information pertaining to the location, topography, geology and soils are outlined below.
- 2.5 Magnetometer survey will initially be focused on Priority Areas (Illus 01-119) across all eight sections at pre-determined locations based on their archaeological potential and/or at locations where the Project requires land for underground cable, cable sealing end compounds, temporary working compounds and/or substations.

## **Section A South Norfolk**

- 2.6 This stretch of the Project is in the County of Norfolk and wholly within the District of South Norfolk. The Project arises in the north at the National Grid Norwich Main Substation c. 2.4km south of Norwich and c. 600 m south-west of the village of Dunston. From its northern limit, Section A of the Project heads in a generally south-southwest direction, by-passing the settlements of Mulbarton, Tacolneston, Shelfanger and Bressingham before terminating at the County border with Suffolk in the Waveney River valley approximately 2.4km west of the market town of Diss. Section A of the Project accounts for approximately 31km of its overall length.
- 2.7 The topography of Section A has been shaped by the Tass and Waveney Valleys, which have formed as natural drainage channels for the higher, plateaued land around them. This has created a gently undulating landscape of higher ground marked by dry and wet valleys. From its northern limit at the National Grid Norwich Main Substation at roughly 35m Above Ordnance Datum (AOD), the Project crosses a gently undulating landscape climbing to a high point of 44m AOD c. 1km west-northwest of Flordon. From this point the Project crosses a tributary of the Tass at 25m AOD; the Project then climbs again and passes through an undulating landscape with a high point of 55m AOD south-east of Tacolneston. The Project then crosses the Tass at 26m AOD before following higher ground to south-east of Shelfanger at 48m AOD where it crosses a tributary of the Waveney Valley at 33m AOD. The Project again climbs to 52m AOD north-east of Bressingham before descending to the Waveney Valley and the County border at 25m AOD.
- 2.8 The solid geology of Section A consists entirely of chalk of the Lewes Nodular, Seaford, Newhaven, Culver, and Portsdown Chalk Formations. For the most part, the superficial deposits comprise chalky till of the Lowestoft Formation with sporadic patches of sand and gravel of the Sheringham Cliffs, Happisburgh Glacigenic and Leet Hill Formations, which largely define the Tass Valley and its tributaries. The southern reaches of the Tass Valley system also include sand and gravel of the Lowestoft Formation, whilst the dry valley tributaries contain superficial head deposits of clay and peat formations. The base of the Tass Valley system contains alluvial clay, silt, sand, and gravel. The Waveney Valley superficial deposits comprise peat, head clay, river terrace sand and gravel, Croxton Member sand and gravel, Ingham Formation sand and gravel and alluvial clay, silt, sand, and gravel.
- 2.9 The overlying soils in this section of the route are predominantly classified as slowly permeable seasonally wet slightly acid but base-rich loamy and clayey in Soilscape 18 Association, except for a stretch between Hapton and the River Tas where the soils are recorded as slightly acid loamy and clayey soils with impeded drainage in Soilscape 8 Association. The Order Limits crosses as many as five different soil

types aligned in narrow bands roughly east/west recorded around the River Waveney west of Diss between Roydon and Bressingham (Cranfield University 2023).

## Section B Mid Suffolk and Babergh

- 2.10 From the proposed section A end point, the route corridor continues south past Wortham Ling, through arable fields before crossing the A143 at Bury Road at 43m AOD. The route corridor continues south, passing to the west of Mellis whereupon the route heads south-west then south-east before passing Gislingham to the east. Just south of Gislingham the route corridor crosses a railway line travelling northeast to south-west at 56m AOD before crossing Wickham Road east of Finningham. The route corridor continues south between the villages of Cotton and Mendlesham and then Gipping and Mendlesham Green, crossing the River Gipping north of Saxham Street at 46m AOD. The route corridor continues south crossing the A1120 at Bell's Lane and then the A14 east of Creeting St Peter at 48m AOD where shortly the land falls away and it crosses the River Gipping again and another railway north of the B1113. South of the B1113 the route heads south-southwest where there are three areas of ancient woodland adjacent to the route and it crosses an unnamed watercourse. The route corridor continues on this alignment passing on the west side of Barking before crossing the B1078 between Barking Tye and Ringshall Stocks. West of Offton the route turns and continues east-southeast towards Somersham and north of Flowton before concluding a little further southeast where it meets the Bramford 400kV substation where three other routecorridors converge, Bramford -Norwich, Bramford - Sizewell and Bramford - Pelham.
- 2.11 A wide band of chalk of the Lewes Nodular Chalk, Seaford Chalk, Newhaven Chalk, Culver Chalk and Portsdown Chalk Formations is recorded at the north of this section east of Wortham. This then changes to sand of the Crag Group which underlies much of the section from north of Mellis to Stowmarket in the south. Much of the remaining section is underlain by chalk of the Newhaven Chalk Formation until a broad area of sand of the Chillesford Church Sand Member is mapped northwest of Somersham. The entire section of this route is overlain by sedimentary diamicton superficial deposits of the Lowestoft Formation.
- 2.12 Once south of the soil type variation recorded around Diss and the River Waveney the soils are largely the same as the previous section, recorded largely as slowly permeable seasonally wet slightly acid but base-rich loamy and clayey in Soilscape 18 Association. A small band of soils recorded as slightly acid loamy and clayey soils with impeded drainage in Soilscape 8 Association follows the course of the River Dove which crosses the Order Limits to the west of Wickham Skeith. Further variations in the mapped soils are then not recorded until the Order Limits crosses the River Gripping northwest of Needham Market (Cranfield University 2023).

# Section C Babergh, Colchester and Tendring

2.13 From the section B end point at Bramford substation (located in Mid-Suffolk) the route corridor continues southeast through arable fields before crossing the A1071 at Thorpe's Hill. After this it crosses and turns southwest in the location of the Spring Brook River heading through arable fields to the east of Chattisham before reaching former WWII Raydon airfield and turning south. Continuing south the route corridor crosses the B1070 at Holton St Mary and passes between Higham and Stratford St Mary where it crosses the River Stour and intersects the A12 just north of Langham. South of the B1068 the route corridor enters the Dedham Vale AONB, designated for its meadows, fens and ancient woodland. It exits the AONB to the east of the A12(it is proposed that underground cable is used through this section). East of the

A12 the route corridor heads southeast crossing Ardleigh Road north of Ardleigh Heath before continuing on the same alignment until the route diverges just north of Ardleigh. A section of route corridor continues on a southeast alignment crossing the railway east of Ardleigh before terminating at the A120 northwest of Little Bentley. This section is associated with the planned new Air Insulated substation (AIS) (known as the East Anglia Connection Node (EACN) Substation) located on the Tendring Peninsula. The main route corridor turns west before terminating at Old Ipswich Road at 40m AOD immediately east of the A12 north of junction 29.

- 2.14 The bedrock geology at the start of this section at Bramford substation is recorded as sedimentary clay, silt and sand of the Thames Group. The geology then changes to Red Crag Formation sand which underlies the route corridor section around Raydon WWII airfield and southwards until just north of Stratford St Mary. A band of clay, silt and sand of the Thames Group is then again recorded between Stratford St Mary and the River Stour. In the location of the Stour itself the bedrock is recorded as Thanet Formation and Lambeth Group clay, silt and sand. Red Crag Formation sand underlies the section of the route south of the Stour and west of the A12. South of this and covering all areas north of Colchester the bedrock is again recorded as Thames Group clay, silt and sand. The distribution of superficial deposits across this section of the route corridor are more complex to the south. In the north, overlying superficial deposits are recorded as diamicton of the Lowestoft Formation as far south as Holton St Mary. South of Holton St Mary north of the River Stour the superficial deposits are recorded as a complex mix of sand and gravels of different formations including the Kesgrave Catchment Subgroup and Lowestoft Formation. river terrace deposits and Head (diamicton). A wide band of alluvium is recorded in the location of the River Stour. South of the Stour and the associated band of alluvium and east of the A12, the overlying deposits covering the remainder of the route are again a complex spread of cover sands made up of clay, silt and sand and gravel deposits of the Kesgrave Catchment Subgroup.
- 2.15 The soils at the start of this section around Bramford substation are classified as slowly permeable seasonally wet slightly acid but base-rich loamy and clayey soils in Soilscape 18 Association. These change to more freely draining slightly acid but base-rich soils and slightly acid loamy soils of Soilscape 7 and 6 Associations south of WWII Raydon airfield and then west of Holton St Mary respectively. The soils south of the River Stour and to the north and north-east of Colchester are largely classified in Soilscape 8 Association as slightly acid loamy and clayey soils with impeded drainage.

## **Section D Colchester**

- 2.16 Section D of the Project is located wholly within the County of Essex and the District of Colchester. Section D begins at Old Ipswich Road, Colchester and heads west bypassing the settlements of Highwoods and Horkesley Heath to the south before turning to the south-west and bypassing the settlements of West Bergholt, Eight Ash Green, and Marks Tey. Section D terminates at the Colchester/Braintree District border c. 2km south-west of Marks Tey. Section D of the Project accounts for approximately 15km of its overall length.
- 2.17 From the Old Ipswich Road at 40m AOD the Order Limits passes through a gently undulating landscape that gradually rises to 60m AOD where the Order Limits cross London Road c. 1.3km west of Great Horkesley. From here, the landscape falls to 46m AOD as the Order Limits cross a tributary valley of the Stour Valley 2.7km to the north, before climbing again to 51m AOD to where the Order Limits turn to the south-west just north of the B1508. The Order Limits then hugs the eastern flank of a north/south aligned tributary valley of the Colne Valley c. 2.4km to the south. The Order Limits crosses the tributary valley at 33m AOD just to the south of Bergholt Road. From here, the gently undulating landscape rises to 41m AOD before

beginning its descent into the Colne Valley where it crosses the river at 15m AOD. The Order Limits then climbs out of the valley before passing through a gently undulating landscape between 31m AOD in the Roman River Valley and 48m AOD as it continues south-west and its southern limit at the Colchester/Braintree District border.

- 2.18 The solid geology of Section D consists almost entirely of clay, silt, and sand of the London Clay Formation with just three small pockets of Crag Group Sand c. 1 km south-west of Aldham. From the Old Ipswich Road to the A134 immediately north of Great Horkesley the superficial geological deposits largely comprise clay, silt, and sand of Cover Sand Formation with small areas of sand and gravel of the Lowestoft Formation and sand and gravel of the Kesgrave Catchment Subgroup. From the A134 to the southern limit of the Section at the Colchester/Braintree District border the superficial deposits are dominated by diamicton glacial tills of the Lowestoft Formation, also known as 'boulder clay'. Exceptions to this pattern are seen in the tributary valley of the Stour Valley where clay, silt, sand and gravel head deposits are recoded; in the tributary valley of the Colne Valley where similar head deposits are encountered as well as alluvial clays, silts, sands and gravels, and sand of gravel of the Kesgrave Catchment Subgroup; in the Colne Valley where bands of similarly described deposits of head and alluvium are recorded as well as Kesgrave Catchment Subgroup sand and gravel, sand and gravel River Deposits 2, and clay, silt and sand of Cover Sand Formation; and in the Roman River Valley where head, Kesgrave Catchment Subgroup, Cover Sand, and interglacial lacustrine deposits of clav and silt are recorded.
- 2.19 The soils to the north and west of Colchester are classified in Soilscape 8 Association as slightly acid loamy and clayey soils with impeded drainage. These then change across a relatively small area to freely draining slightly acid loamy soils recorded in Soilscape 6 Association where the Order Limits crosses the River Colne at Fordstreet (Cranfield University 2023).

#### Section E Braintree

- 2.20 Section E of the Project is located wholly within the County of Essex and the District of Braintree. Section E begins at the Colchester/Braintree District border c. 2km south-west of Marks Tey and heads generally west-south-west bypassing the settlements of Coggeshall, Kelvedon, Silver End, Faulkbourne and Fairstead. Section E terminates at Fuller Street that marks the Braintree/Chelmsford District border. Section E of the Project accounts for approximately 15km of its overall length.
- 2.21 From the Colchester/Braintree District border at 44m AOD the Order Limits passes through a very gently undulating landscape at between 44m and 50m AOD to a point at 41m aOD adjacent to Coggeshall Road north of the Blackwater Valley. The Order Limits crosses the Blackwater Valley at 27m AOD before climbing up to the B1024 Kelvedon Road at 44m AOD. From here, the Order Limits passes through a gently undulating landscape between 39m and 51m AOD before reaching the railway line between Braintree and Chipping to the north of the Brain Valley. The Order Limits crosses the Brain Valley at 27m AOD and then climbs the valley side to Church Hill at 46m AOD. From here, the Order Limits passes through an undulating landscape between 46m and 69m AOD before arriving at Fuller Street at 60m AOD on the Braintree/Chelmsford District border.
- 2.22 The solid geology of Section E consists entirely of clay, silt, and sand of the London Clay Formation. The superficial deposits are dominated by diamicton glacial tills of the Lowestoft Formation. Exceptions to this pattern are seen in the Blackwater Valley where bands of clay, silt, sand and gravel head deposits, sand of gravel of the Kesgrave Catchment Subgroup, alluvial clay, silt, sand and gravel, and river terraces of sand and gravel are recorded; in a shallow tributary of the Blackwater Valley north

of the Clock House where clay, silt, sand and gravel head deposits are recorded; in a shallow tributary of the Blackwater Valley between Silver End and Rivenhall where a similar sequence of deposits to those in Blackwater Valley are recorded; and in the Brain Valley where bands of sand and gravel of the Lowestoft Formation, glaciofluvial deposits of sand and gravel and alluvial clay, silt, sand and gravel. Towards the south-western limit of Section E, the Order Limits crosses two shallow tributaries of the Ter Valley where bands of alluvial clay, silt, sand, and gravel, glaciofluvial deposits of sand and gravel, clay, silt, sand and gravel head deposits and peat are recorded.

2.23 Lime-rich loamy and clayey soils with impeded drainage of Soilscape 9 Association are mapped at the start of this section where the Order Limits crosses the A120 east of Coggeshall and are prominent until the route reaches north of Fairstead. Two other soil types are less common in this section, soils in Soilscape 6 and 8 Associations identified as slightly acid loamy and clayey soils with impeded drainage and freely draining slightly acid loamy soils respectively are also identified around Rivenhall and east of Faulkbourne (Cranfield University 2023).

#### Section F Chelmsford

- 2.24 Section F of the Project is located wholly within the County of Essex and the District of Chelmsford. Section F begins at the Braintree/Chelmsford District border at Fuller Street and heads generally southwest around to the west of Chelmsford bypassing the settlements of Chatham Green, Little Waltham, Roxwell, Writtle, before terminating between Little Hyde Farm and Margaretting Hall Cottages on the Chelmsford/Brentwood District border. Section F of the Project accounts for approximately 19.5 km of its overall length.
- 2.25 From the Braintree/Chelmsford District border at 60m AOD, the Order Limits descends into the bottom of the Ter Valley at 43m AOD. It then climbs back out of the valley to 52m AOD before heading south-south-west through a gently undulating landscape between 52m AOD and 61m AOD to a Main Compound site at Sheepcotes Wood, 190m east of the A131. The Order Limits crosses the A131 at 55m AOD and then begins its decent into the Chelmer Valley between Great Waltham to the west and Little Waltham in the east. The Order Limits crosses the river Chelmer at 33m AOD before climbing the valley side to Ball's Farm off Lark's Lane at 55m AOD. The Order Limits then passes through a gently undulating landscape between 55m AOD and 63m AOD before arriving at Bushy Wood at 55m AOD c. 2.1km north-east of Chignall St James. From here the topography gradually falls to a tributary of the Can Valley at 41m AOD before rising again to 50m AOD south of Chignall St James. The Order Limits then crosses the Can Valley at 33m AOD before the landscape rises slightly to 40m AOD only to descend into the Roswell Brook Valley at 35m AOD, itself a tributary of the Can. The Order Limits then passes through a gently rising landscape to Lady Grove Woods at 62m AOD. From here the landscape undulates between 51m AOD and 68m AOD as the Order Limits reaches Margaretting Road at 55m AOD. The Order Limits then steadily climbs to the high point of Section 6 at 88m AOD between Baker's Wood to the west and King Wood to the east. From here, the Order Limits descends to the floor of a tributary of the Wid Valley at 46m AOD before rising again to 65m AOD at the Chelmsford/Brentwood District border.
- 2.26 The solid geology of Section F is dominated by clay, silt, and sand of the London clay Formation. At the southern limit of the Section deposits of clay, silt and sand of the Claygate Member and sand of the Bagshot Formation are recorded which coincide with the topographically highest portion of Section F near King Wood. As seen in previously in Section E, the superficial deposits are dominated by diamicton glacial tills of the Lowestoft Formation with variations to this deposit model seen in the valleys within Section F. The Ter and Chelmer Valleys contain mixed bands of

glaciofluvial deposits of sand and gravel and head deposits of clay, silt, sand and gravel with alluvial clay, silt, sand, and gravel in the valley floors. The Can Valley and the Can tributary valley east of Chignall St James contain head deposits of clay, silt, sand and gravel with alluvial clay, silt, sand, and gravel in the valley floors. Roxwell Brook Valley contains head deposits of clay, silt, sand and gravel, sand and gravel of the Kesgrave Catchment and alluvial clay, silt, sand, and gravel in the valley floor. From the Roxwell Brook Valley to the southern extent of Section 6, the dominant superficial diamicton glacial tills of the Lowestoft Formation are interrupted by bands of head deposits of clay, silt, sand, and gravel. The only exception to this being deposits of sand and gravel of the Stanmore Gravel Formation, which coincide with the high point of Section 6 at 88m AOD.

2.27 Similar to the previous section the stretch of the Order Limits located between Fuller Street and Little Waltham are a mix of freely draining slightly acid loamy soils, slightly acid loamy and clayey soils with impeded drainage and lime-rich loamy and clayey soils with impeded drainage classified in Soilscape Associations 6, 8 and 9 respectively. Southwest of Little Waltham until the outskirts of Chelmsford the soils are predominantly mapped as freely draining lime-rich loamy soils in Soilscape 5 Association. West of Chelmsford in proximity to the River Can the soils again revert to loamy and clayey soils with impeded drainage of Soilscape 8 and 9 Associations. At the end of this section near Margaretting slowly permeable seasonally wet slightly acid but base-rich loamy and clayey soils of Soilscape 18 Association are mapped.

#### Section G Basildon and Brentwood

- 2.28 Section G of the Project is located wholly within the County of Essex and approximately follows the north/south aligned District border between Brentwood to the west and Basildon to the east. Section G begins at the Chelmsford/Brentwood District border between Little Hyde Farm to the west and Margaretting Hall Cottages to the east. From its northern limit, Section G heads south bypassing the settlement of Ingatestone, Shenfield, Billericay, and Basildon before terminating at the Brentwood/Basildon/Thurrock District border on the railway line between West Horndon to the west and Basildon to the east. Section G of the Project accounts for approximately 14km of its overall length.
- 2.29 From the Chelmsford/Brentwood District border at 65m AOD the Order Limits crosses the A12 at a similar height before partially descending in to the Wid Valley. The Order Limits descends the western flank of the Wid Valley and crosses the river at 40m AOD before climbing the eastern flank of the valley to 50m AOD. From here, the Order Limits passes through a gently undulating landscape between 50m AOD and 60m AOD before crossing the Stock Brook (a tributary of the Wid) at 45m AOD and then the Wid at 44m AOD. The Order Limits then gradually climbs to 48m AOD at Old Church Lane before climbing further to 64m AOD just north of the A129 between Shenfield to the west and Billericay to the east. From the A129, the Order Limits heads south-south-east and continues to climb to 73m AOD before passing through an undulating landscape between 54m AOD where it crosses Havering's Grove Brook to 78m AOD north of Botney Hill Road. The Order Limits crosses Botney Hill Road at 65m AOD before turning to the south and climbing to 76m south of the highway. From where it descends through a gently undulating landscape to 27m AOD at the railway line on the Brentwood/Basildon/Thurrock District border.
- 2.30 The solid geology of Section G is dominated by clay, silt, and sand of the London Clay Formation. There are also deposits of clay, silt and sand of the Claygate Member and sand of the Bagshot Formation and these deposits largely coincide with the higher portions of the Section G landscape. There are no recorded superficial deposits for some of Section G. Where recorded, the deposits comprise diamicton glacial tills of the Lowestoft Formation interspersed by head deposits of clay, silt, sand and gravel, river terrace deposits of sand and gravel, glaciofluvial deposits of sand and gravel, and alluvial clay, silt, sand, and gravel. The head, glaciofluvial, river

- terrace and alluvial deposit are restricted to the Wid and Crouch Valleys and their tributaries.
- 2.31 The soils of this entire section are classified as slowly permeable seasonally wet slightly acid but base-rich loamy and clayey soils in Soilscape 18 Association (Cranfield University 2023).

#### **Section H Thurrock**

- 2.32 Section H, the southernmost Section of the Project, is located wholly within the County of Essex and the District of Thurrock. Section H begins at the Brentwood/Basildon/Thurrock District border on the railway line between West Horndon to the west and Basildon to the east. From its northern limit, Section H heads south bypassing the settlements of Bulpham, Horndon on the Hill, Stanford le Hope and East and West Tilbury before terminating at the Tilbury Substation 700m north of the Thames.
- 2.33 From the railway line on the Brentwood/Basildon/Thurrock District border at 27m AOD, the Order Limits passes southwards through a very gently undulating landscape between 15m AOD and 20m AOD to Doesgate Lane. From here, the land gently rises to 41m AOD immediately south-west of Langdon Hills golf course. The Order Limits then turns to the south-west and descends quickly to 15m AOD 500m east of the A128 where it turns once more to the south. The gently undulating landscape from this point lies at 11m AOD to 15m AOD before it climbs to 30m AOD immediately west of Orsett Road 725m south-west of Horndon on the Hill. Turning to the south-east the Order Limits crosses Orsett Road and passes through an undulating landscape between 18m AOD and 29m AOD before crossing the A13 at 22m AOD. From the A13, the Order Limits climb through an undulating landscape between 28m AOD and 35m AOD and follows Buckingham Hill Road before curving around the north-west of Linford and then turning southward. The Order Limits then descends into a gently undulating landscape between 10m AOD and 22m AOD before crossing Church Road at 17m AOD 260m south-east of West Tilbury. The Order Limits then enters the low-lying Tilbury Marshes at between 1m AOD and 5m AOD and terminates Tilbury Power Station at 2m AOD.
- 2.34 The solid geology of the northern half of Section H consists of clay, silt, sand, and gravel of the London Clay Formation. As the Project approaches the Thames, the solid geology comprises of bands of clay, silt, sand and gravel of the Lambeth Group, sand of the Thanet Formation and finally chalk of the Lewes Nodular Chalk Formation. To the north of the Stanford-le-Hope By-Pass (the A13), the superficial deposits comprise head deposits of clay, silt, sand, and gravel incised by alluvial deposits of clay, alluvial clay, silt, sand, and gravel in the floors of watercourses that feed ultimately into the Mar Dyke river that flows into the Thames at Purfleet. South of the A13, the superficial deposits are mixed comprising head deposits of clay, silt, sand and gravel; alluvial clay, silt, sand and gravel in the floors of watercourses; sand and gravel of the Black Park Gravel Member; sand and gravel of the Boyn Hill Gravel Member; sand and gravel of the Taplow Gravel Member; sand and gravel of the Lynch Hill Gravel Member; and at the southern limit of Section H, alluvial clay, silt, sand and peat of the Tilbury Marshes.
- 2.35 Slowly permeable seasonally wet slightly acid but base-rich loamy and clayey soils of Soilscape 18 Association continue south from the previous section until the route reaches the west of Stanford-le-Hope. Between Sanford-le-Hope and West Tilbury the soils are identified in Soilscape 6 Association as freely draining slightly acid loamy soils. All soils south of West Tilbury are recorded as loamy and clayey soils of coastal flats with naturally high groundwater in Soilscape 21 Association (Cranfield University 2023).

## 3 RESULTS

- 3.1 The following chapter details the archaeological potential (if any) of each of the initial Geophysics Priority Areas and a brief description of the geophysical survey data, across all eight sections of the Project. This information is abstracted from HER data requested from the relevant counties (Norfolk, Suffolk, Essex and Colchester) and information contained within the Norwich to Tilbury historic environment baseline report Appendix 11.1: Historic Environment Baseline Report (document reference 6.11.A1).
- 3.2 The baseline report identifies, describes, and collates the baseline historic environment resource identified from desk-based sources, walkover and setting survey within the Order Limits and study areas for the Project and has been prepared to support Environmental Statement (ES) Chapter 11: Historic Environment (document reference 6.11).
- 3.3 The baseline report also includes the broader archaeological narrative and potential of each section and detailed information relating to the historic landscape, built heritage assets and conservation areas, only tangentially related to the geophysical survey described herein.
- 3.4 The baseline report is also supported by a series of Annexes which include supplementary information including:
  - Annex A Figures
  - Annex B Gazetteers, providing a full catalogue of assets considered in the baseline of this assessment
  - Annex C Methodology, providing a detailed breakdown of the methodology used to establish the assessment.
  - Annex D Walkover Survey, conducted by the Project to support baseline understanding.
  - Annex E LBs Scoped out
- 3.5 Similar to the details of the topography and geology of the Project, this chapter will provide a general summary of the archaeological potential of each of the Geophysics Priority Areas only by Section A through Section H as currently understood.
- 3.6 The measured area listed for each of the Priority Area parcels within the table does not include adjoining areas of the same ownership within the Order Limits and does not at this stage make a judgement of the likely suitability of the land within the parcel for survey.

#### Section A

Priority Area ID,
location (NGR),
size of Priority
Area only
(hectares)

Geophysical Survey Comments

Geophysical Survey Comments

Description

10224 517981, 297950		No heritage assets are recorded within this parcel.	A rectilinear anomaly in the north may record a former field boundary pre-dating available historical maps.
1.55ha			
10649 10646, 10642 621287, 301770 621488, 301578 621479, 301439 34ha	NHER 52076, MNF60188 MNF58532 NHER 61409 MNF63783 NHER 52076, MNF60188 NHER 52075, MNF6018 7 MNF9750	Medium value heritage asset.  Includes cropmarks of field boundaries and ditches of unknown, but possible Roman date.  Roman and medieval findspots and possible discrete features of uncertain date and nature are located within Order Limits.  Cropmarks of possible undated archaeological site, Late Bronze Age flint scatters, post medieval building material and finds all located immediately outside Order Limits.  Cropmarks of field boundaries and ditches of unknown, but possible Roman date.  Cropmarks of rectilinear enclosures, field boundaries and ditches of unknown, but possible Roman date.	A series of at least four adjoining rectilinear enclosures are located along the north-western fringe of this parcel, centred at NGR 621200, 302250. Enclosures occur in location of Roman, medieval and undated heritage assets (MNF 58532, MNF63783, MNF58527, MNF61409, MNF9750).  Faint traces of a larger, more regular rectilinear feature approx. 150m in diameter are recorded c. 0.4km to the south, centred at NGR 621250, 301850. The location of the ditch-like anomalies coincides with heritage assets of Roman, medieval and undated remains (MNF75258), a multi-period findspot (MNF60099) and cropmarks of possible Roman boundaries and ditches adjacent Hickling Lane (MNF60188).
10642 621488, 301578 621479, 301439 1.25ha and 0.28ha	NHER 52076, MNF60188 NHER 52075, MNF6018 7 MNF6018	Medium value heritage asset.  Cropmarks of field boundaries and ditches of unknown, but possible Roman date.  Cropmarks of rectilinear enclosures, field boundaries and ditches of unknown, but possible Roman date.	Three sides of a possible sub-rectangule enclosure 35m in diameter is recorded centred at NGR 621300, 301300. The feature lies close to but outside of heritage assets of cropmarks of undate boundaries and ditches (MNF60186, MNF601877 and MNF60188). Also present in the parcel are several discret low magnitude responses possibly indicative of extraction, multiple possib pit-like responses and two other vague discontinuous linear ditch type anomalies. No coherent pattern is evident as to suggest settlement activition No anomalies of note are recorded in the southernmost parcel north of Church Road.

10558 620712, 300094 11.8ha	NHER 10106, MNF10106 NHER 55489, MNF61842 NHER 55490, MNF6186 1 MNF6030 5 MNF6030 6 MNF7415 5 MNF6184 0 MNF6184 1	Medium/High valued heritage asset.  Kenningham deserted medieval village – House platform, pit, drainage ditch, deserted settlement lies within the Priority Area boundary.  Prehistoric, Roman and Late Saxon to post-medieval findspots lay immediately outside the priority are but within the Order Limits to the north and outside the limits to the east and southeast.	Two very vague linear ditch-type anomalies have been recorded in northern half of 10558, south of Church Road. These are recorded in the location of heritage asset of prehistoric worked flint and multiperiod potter (MNF61840) and north of heritage assets of undated cropmarks (MNF60305), post medieval field boundaries (MNF60305) and multi-period finds (MNF61841).
10312, 10312a, 10312b, 10312c 620614, 299756 8.12ha	NHER 10106 NHER 65136, MNF74161 NHER 64517, MNF73450 NHER 55489, MNF61842 NHER 55490, MNF61861 NHER 63134, MNF70889 NHER 58356, MNF6477 9 MNF6482 8	Medium/High valued heritage asset.  Kenningham deserted medieval village.  Probable area of medieval settlement and undated field boundaries and possible ringditch.  A Bronze Age enclosure and other prehistoric and undated remains were recorded immediately outside the priority area but within the Order Limits to the south, during a magnetometer survey and subsequent excavations in advance of a solar farm development.  Prehistoric, Roman and Late Saxon to post-medieval findspots lay immediately outside the priority are but within the Order Limits to the north and outside the limits to the east and southeast.	A roughly circular area of quarrying 40m in diameter, not evident on historic mapping, is recorded as a patch of low magnitude magnetic enhancement immediately south of Brick Kiln Lane.  A dense cluster of linear and discrete anomalies centred at NGR 620600, 299700 either side of the current field boundary locates Kenningham DMV (MNF10106). Two probable trackways, house plots and anomalies indicative of burning are also recorded in the general area of probable medieval settlement (MNF74161) and multi-period finds (MNF64828) recorded in the NHER. A possible sub-circular anomaly immediately east of the DMV is tentatively interpreted as possibly archaeological in origin.

		findspot 225m west of the Order Limits.	
10048 616382, 296474 11.35ha	NHER 30205, MNF30205 NHER 34830, MNF39099 NHER31308, MNF31308 NHER 31447, MNF31447 NHER 16562 NHER 9970 NHER 32306, MNF32306 NHER31446, MNF31446 NHER286 69, MNF2866 9	Medium/High valued heritage asset.  Roman settlement, Early Saxon cemetery and multi-period finds within Order Limits.  Medieval pendant findspot within Order Limits.  Four medieval coins and multi-period finds scatter located outside priority area but within Order Limits immediately to the north of Fundenhall Road.  The site of a post medieval timber framed barn, possibly dating from the 16th or 17th centuries, or a later barn reusing earlier timbers lies within the Order Limits adjacent Fundenhall Road.  Site of former Elm Tree Farm a 16th century timber framed house lies outside priority survey area but within the Order Limits on opposite side of Fundenhall Road.  Multi-period finds scatter located 215m outside Order Limits to east and same distance to the west.  Medieval and post medieval metalwork findspot immediately south of priority area partially within Order Limits.	A possible sub-square enclosure is recorded centred at NGR 616250, 296460 south of Fundenhall Road in the location of a Roman settlement and Early Saxon cemetery (MNF30205) recorded in the NHER. A large area of disturbance within the 'enclosure' is presumed coincidental, identifying an infilled pond evident on historic OS mapping. Four surrounding irregular shaped patches of low magnetic enhancement likely identify localised extraction.  A small cluster of pit-type anomalies and L-shaped ditch-like anomaly are also mapped in the southern part of the PA, in the location of medieval and post-medieval findspot heritage assets (MNF28669 and MNF39840).
9570 612053, 288237 18.5ha	NHER 13628, MNF13628 NHER 19723, MNF19723 NHER 59723, MNF6602 3	Location of NG compound.  WWI military airfield.  Cropmarks of medieval strip fields.  Medieval to post-medieval finds outside Order Limits 150m to the east.	A cluster of linear and rectilinear ditch- like anomalies with clearly defined areas of highly magnetic readings/disturbance are recorded centred at NGR 612000, 288150. It remains unclear whether thes are associated with a WW1 airfield (MNF13628) recorded immediately to the north, cropmarks of medieval strip fields (MNF19723) logged in the HER in this location off Long Row and/or older features. No anomalies of note are

			recorded in the northern half of the parcel.
9445 611762, 283896 4.24ha	NHER 10974, MNF10974 NHER 21041, 21042, MNF21041, 21042 NHER 21043, MNF21043 NHER 60018, MNF66170	Medium value heritage asset.  Possible medieval or postmedieval moat within Order Limits.  Medieval pottery findspots c. 110m outside Order Limits to the east.  Prehistoric flake findspot 120m outside Order Limits to the east.  Multi-period finds 150m northwest of Priority Area but slightly within Order Limits to the north.	A high magnitude discrete response and small spread of magnetic disturbance recorded at the southern of the parcel lies at the edge of a heritage asset of a possible medieval or post-medieval moat (MNF10974). The only other anomalies of note record two pit-like responses and two former boundaries to the north.
8969 608990, 280500 4.9ha	MNF57726 MNF41236	Area of underground cable, Sealing End Compound (CSEC) and compounds.  Close proximity to findspots of prehistoric worked flint and Roman to post-medieval metal objects have been found north of the River Waveney in the Priority Area.	No anomalies considered of possible or probable archaeological potential are recorded in this parcel between the A1066 and Fen Lane. Linear anomalies identify a former field boundary and regular pattern of field drains.
8923 609010, 28310 5.91ha	MNF57726 MNF41236	Area of underground cable, Sealing End Compound (CSEC)and compounds.  Close proximity to findspots of prehistoric worked flint and Roman to post-medieval metal objects have been found north of the River Waveney in the Priority Area.	No anomalies considered of possible or probable archaeological potential are recorded in this parcel south of Fen Lane Linear anomalies identify a former field boundary and regular pattern of field drains.
8920 609197, 280184 3.85ha	MNF41236	Area of underground cable, Sealing End Compound (CSEC)and compounds.  Close proximity to findspots of prehistoric worked flint and Roman to post-medieval metal objects have been found north of	Results in this parcel are limited to linear trends identifying former boundaries evident on historic mapping and two small concentrations of magnetic disturbance likely modern in origin.

		the River Waveney in the Priority Area.	
11983 609444, 280032 11.39ha	MNF41236 MNF24744 MNF23849 MSF44886	Area of underground cable, Sealing End Compound (CSEC)and compounds.  Close proximity to findspots of prehistoric worked flint and Roman to post-medieval metal objects have been found north of the River Waveney in the Priority Area.	A series of faint linear ditch-like anomalies of possible archaeological potential are recorded in addition to other linear anomalies matching former field boundaries and two spreads of magnetic disturbance locating infilled ponds. The anomalies are recorded north of the River Waveney in the general area of prehistoric and Roman to post-medieval metal object find spots (MNF41236 and MNF23849) and roughly 275m east of a possible Roman road (MSF44886).
		Area of underground cable, Sealing End Compound (CSEC)and compounds.	No anomalies of clear archaeological potential are identified in this parcel. The cause of a spread of magnetic
		Prehistoric worked flint and Roman to post-medieval metal objects have been found north of the River Waveney in the Priority Area.	disturbance in the north-west corner of the parcel remains uncertain but could relate to a medieval moated site recorded in this location (MNF10900). The remaining magnetic anomalies are limited to sinuous and discrete responses
	MNF41236	A medieval moated site is also recorded within the Priority Area north of the River Waveney.	recording former channels and natural deposition adjacent the River Waveney and linear anomalies recording former field boundaries.
11993	MNF10900	The southern part of this parcel cross the western limits of	nera sourraines.
609603, 279810	MNF30978	medieval common land visible on	n
6.4ha	MSF43515	Hodskinson's 1783 Map.	
	MSF21997	East of Wortham Ling and immediately adjacent Roydon Fen the possible site of post-medieval market and multi-period finds are recorded partially within the Priority Area.	
		A very small part of the Priority Area crosses an area which records widespread flint artefact scatters south of the River Waveney.	
11989	MNF41236	Area of underground cable, Sealing End Compound	Magnetic anomalies are limited to sinuous and discrete responses recording
609754,279719	MNF24744	(CSEC)and compounds.	former channels and natural deposition adjacent the River Waveney and linear
2.22ha		Prehistoric worked flint and Roman to post-medieval metal	aujacent the niver waverley driu linedi

		objects have been found north of the River Waveney in the Priority Area.  The southern part of this parcel cross the western limits of medieval common land visible on Hodskinson's 1783 Map.	anomalies recording a former field boundaries.
		Area of underground cable, Sealing End Compound (CSEC)and compounds.	No anomalies of obvious or possible archaeological potential are identified in this small parcel immediately adjacent
12013 609622, 279641	MNF41236 MNF24744	Prehistoric worked flint and Roman to post-medieval metal objects have been found north of the River Waveney in the Priority Area.	the River Waveney. A cluster of discrete responses very likely identify flooding deposits from the river.
0.74ha		The southern part of this parcel cross the western limits of medieval common land visible on Hodskinson's 1783 Map.	
		Area of underground cable, Sealing End Compound (CSEC)and compounds.	No anomalies of obvious or possible archaeological potential are identified in this small parcel immediately south of
11710 609672, 279566 1.1ha	MNF41236 MNF24744	Prehistoric worked flint and Roman to post-medieval metal objects have been found north of the River Waveney in the Priority Area.	the River Waveney. A low magnitude sinuous response crossing the parcel is considered natural in origin identifying a former channel linked to the river.
		The southern part of this parcel cross the western limits of medieval common land visible on Hodskinson's 1783 Map.	
44746		Area of underground cable, Sealing End Compound (CSEC)and compounds.	No survey undertaken in this parcel.
11/16			
11716 609762, 279571 1.76ha	MNF30978	East of Wortham Ling and immediately adjacent Roydon Fen the possible site of post-medieval market and multi-period finds are recorded partially within the Priority Area.	

		Prehistoric worked flint and Roman to post-medieval metal objects have been found north of the River Waveney in the Priority Area.	responses very likely identify flooding deposits from the river.
11810 609956, 279507 1.85ha	MNF30978	Area of underground cable, Sealing End Compound (CSEC)and compounds.  East of Wortham Ling and immediately adjacent Roydon Fen the possible site of post-medieval market and multi-period finds are recorded partially within the Priority Area.	No anomalies of obvious or possible archaeological potential are identified in this parcel immediately north of the River Waveney. A cluster of discrete responses and sinuous feature very likely identify flooding deposits and former channel respectively associated with the river.
11694 609846, 279520 4.7ha	MNF30978	Area of underground cable, Sealing End Compound (CSEC)and compounds.  East of Wortham Ling and immediately adjacent Roydon Fen the possible site of post-medieval market and multi-period finds are recorded partially within the Priority Area.	No anomalies of obvious archaeological potential. Modern disturbance. Two possible drains.

# Section B

Priority Area ID, location (NGR), size of Priority Area only (hectares)	Heritage Asset Identifiers	Description	Geophysical Survey Comments
7621 607236 , 255599 1.18ha	MSF27777	Multiperiod metalwork scatter.	No anomalies of clear archaeological potential are identified in this parcel.
8525 607923 , 269926 12.16ha		No heritage assets are recorded within this parcel.	No anomalies of clear archaeological potential are identified in this parcel.  A subcircular anomaly and three linear/rectilinear anomalies in the centre may record former enclosures pre-dating available historical maps, but their character is insufficiently distinct from other anomalies interpreted as geological and they

			are thus given an uncertain interpretation.
8643 608342 , 271813 1.69ha		No heritage assets are recorded within this parcel.	No anomalies of clear archaeological potential are identified in this parcel. Several linear/rectilinear anomalies may record former field systems predating available historical maps, but their character means that a modern agricultural interpretation cannot be ruled out. A cluster of discrete anomalies in the south are of slightly lower magnitude than others interpreted as modern disturbance and are given an uncertain interpretation.
11699, 17484 610151 , 277756 4.46ha		No heritage assets are recorded within this parcel.	No anomalies of clear archaeological potential are identified in this parcel.
11979, 8748, 16232 610091 , 277062 10.86ha		No heritage assets are recorded within this parcel.	No anomalies of clear archaeological potential are identified in this parcel. Several linear/rectilinear anomalies in the east may record former field systems pre-dating available historical maps, but their character means that a modern agricultural interpretation cannot be ruled out.
11849 1.17ha	MSF43515	Area of underground cable, Sealing End Compound (CSEC)and compounds.	No survey undertaken in this parcel.
1.1711a		Heath visible on Hodskinson's map of 1783	
11821 610014, 279268	MSF43515	Area of underground cable, Sealing End Compound (CSEC)and compounds.	No survey undertaken in this parcel.
4.7ha		Heath visible on Hodskinson's map of 1783	
11820, 14204 609980, 278907 11.42ha	MSF43515	Area of underground cable, Sealing End Compound (CSEC)and compounds.	No survey undertaken in this parcel.

		Heath visible on Hodskinson's map of 1783 is located to the north	
8744 609642, 276665 13.3ha	None	Area of proposed compound.  No heritage assets are recorded within this Priority Area. The nearest heritage assets lay over 250m away to the south (see 8727 below).	A possible ring ditch roughly 32m in diameter is recorded as a faint low magnitude trend in the north-west corner of the northern block. Three sides of possible rectilinear enclosure 65m in length is mapped in the eastern part of the parcel. Faint ditchlike trend anomalies possibly cross the feature and are also present at the southern edge of the northern parcel. No HER assets are recorded in the vicinity and no anomalies of note are recorded in the southern parcel. The remaining anomalies are considered agricultural and/or natural in origin identifying former boundaries and/or field drains.
13269, 8727 0.091	MSF8355 MSF8356	Medium value heritage asset  Medieval moated area, 180 feet x 322 feet, near spring on meadow known as Moatyards.  Roman artefact scatters are recorded immediately south	The survey findings are limited to areas of magnetic disturbance at the field margins and low magnitude discrete responses considered likely natural in origin.
		Medium value heritage asset  Medieval moated area, 180 feet x 322 feet, near spring on meadow known as Moatyards.	The survey findings are limited to areas of magnetic disturbance at the field margins and low magnitude discrete responses considered likely natural in origin.
8726, 8727 609530, 275989 0.46ha	MSF8355 MSF8356 MSF24513	Roman artefact scatters are recorded approximately 170m to the west.	
		Small mound or possible barrow of unknown date lies c. 310m to the northeast outside the Order Limits.	
8705, 8710 609136, 275084 4ha	MSF5584 MSF5585 MSF8339	Medium value heritage asset  Findspot of a Bronze-Age barbed and tanged arrowhead found on a Prehistoric settlement site.	Perpendicular linear ditch-like anomalies possibly identify a rectangular enclosure towards the centre of 8705 in the location of heritage assets of an arrowhead findspot (MSF5584) and a Neolithic/Iron Age settlement site (MSF8339 and
mu			MSF5585). The anomalies are bisected by a buried service spanning both parcels aligned north-west/south-east. A spread

8055 608480, 259495 12ha	MSF43856 MSF46880	Proposed site of NG compound. No HER assets recorded within the Priority Area. Tidymans's Green visible on Hodskinson's Map of 1783 lies immediately outside the Priority Area and only partially within the Order Limits to the northeast. Bay's Farm, Earl Stonham. 19th century farmstead and farmhouse. Regular courtyard multi-yard plan formed by working agricultural buildings located outside Order Limits.	of discrete low magnitude responses along the eastern boundary of the parcel are considered natural in origin.  Two faint ditch-like responses not aligned parallel to the modern boundary and/or cultivation patterns are recorded in 8710.  No anomalies of clear and/or possible archaeological potential are recorded by the survey across this parcel. Survey findings are limited to linear trend anomalies with an agricultural origin identifying former boundaries and derived from modern ploughing.
7782 and 7829 608056, 256546 4.57ha	MSF5372 MSZ27177 MSZ27178 MSZ27188 MSZ27185	Medium value heritage asset.  Multiple non-designated heritage assets are identified on the north side of the River Gipping including a medieval circular moat and findspot of Medieval pottery and mortar.  NMP circular ditch and linear cropmarks.  Cropmarks of series of drainage ditches and field boundaries.  Cropmarks of parallel ditches.	The survey has confirmed the location of a large oval shaped medieval moated enclosure (MSF5372 and MSZ27177) measuring roughly 85m x 75m centred at NGR 607913 256537 north of the River Gipping. The enclosure possibly has opposing entrances on the eastern and western sides but internal anomalies are limited to discrete pit-like responses of possible archaeological potential. A possible trackway is identified at the eastern entrance(?) to the enclosure.  The cause of a linear anomaly and several discrete responses immediately adjacent the River Gripping 50m south of the oval enclosure remains uncertain. Given the proximity to the river the responses are most likely natural in origin however a possible anthropogenic cause cannot be entirely dismissed.  A line of magnetic disturbance along the south-eastern edge of the parcel identifies a buried service and/or modern trackway.  A very broad area of low magnetic enhancement at the northern boundary of the parcel is considered natural in origin.
7221 and 7219	MSF24014	Medium value heritage asset.	No anomalies of clear or possible archaeological potential are identified in
605604, 252277	MSF13360	Dense and widespread Roman artefact scatter of pottery and	this parcel. Findings are limited to traces

11.2ha	MSF13361	metalwork, including brooches,	of a former boundary set against a	
	MSF13362	coins, figurines and pin lies partly	homogenous magnetic background.	
	MSF13358	within the Order Limits.	A series of perpendicular linear ditch-like	
		Roman artefact scatter of pottery and metalwork, including	anomalies of possible archaeological origin are recorded across 7219. There is	
	MSF23070	brooches and coins.	no evidence on historic mapping as to	
	MSF20426	Prehistoric flint and Roman	suggest these are former boundaries and multiple HER asset entries partly covering	
	MSF13151	pottery scatters lay outside the Priority Area but within the Order	the parcel and within the same and	
	MSF12566	Limits.	neighbouring field attest to Roman (MSF13362 and MSF12566) and medieval	
		Metal detecting finds of mainly Post-Medieval metal work lay outside the Priority Area but within the Order Limits.	(MSF13150) activity in the area.	
6667e, 6667f, 6667g, 6667h, 6667i 610382, 246069 8.54ha	MSF4506 MSF19394 MSF19916	Irregular shaped parcels of land for NG substation to the east of Bramford Substation. Oval cropmark, Bullen Farm recorded partially within the Priority Area.  Former ancient woodland lies immediately southwest of the Priority Area.	Three separate sub-rectangular enclosures are recorded in adjoining parcels 6667f, 6667g and 6667i south of Bullen Lane and east of the Bramford substation. Two of the enclosures in 6667i centred at NGR 610350, 246033 and 6667f centred at NGR 610547, 246045 are partially obscured by magnetic disturbance caused by infilled ponds evident on historic mapping. A third enclosure is identified at the eastern edge of the parcel centred at NGR 610545, 246042. The nearest archaeological heritage assets record an oval cropmark (MSF4506) at the northern edge of the Priority Area and a Bronze Age findspot (MSF19916) 100m south-east of the Priority Area. The remaining anomalies in 6667 identify former boundaries, cultivation trends and the location of two former pylon bases.	
		Identified as an area for underground cable compounds.	This parcel covers a large area south of Bramford substation heading in a south-	
		Ancient Woodland known as	east direction. No anomalies of archaeological potential are recorded	
6645, 13128 610443, 245584 53ha	MSF19396	Round wood, Elms Grove and Burstall Long Wood borders the	immediately west or south-west of the substation. A series of very faint ditch-like	
	MSF45027	survey area.	anomalies directly south of the substation	
	MZN27298	A 19 <sup>th</sup> Century farmstead is located to the south of the	are considered as possibly archaeological in origin however the anomalies recorded	
5511u	MSF15186	parcel.	by the survey in these fields are	
		Cropmarks of ditches and curing trackways have been identified in the east of the survey area.	predominantly agricultural in origin identifying field drains and cultivation trends. A possible service is recorded at	

the field boundary south of the substation aligned north-northwest/south-southeast.

A cluster of low magnitude ditches identify a number adjoining rectangular enclosures at the edge of the Priority Area centred at NGR 610660, 245690.

Approximately 1km south-east of the substation a large rectangular enclosure measuring roughly 175m x 155m is identified centred at NGR 611100, 245500. Linear and curving anomalies within and surrounding the enclosure likely identify archaeological ditches and trackways.

Further linear features likely identifying ditches and trackways associated with these enclosures are recorded towards the centre and southern parts of the parcel.

At the southern end of the parcel a possible enclosure is recorded in the north-east corner of the parcel north of Burstall Lane.

A parallel linear anomaly aligned east/west spans parcel 13128 and likely identifies a trackway associated with the archaeological activity recorded in 6645 approximately 250m to the north-west.

The remaining anomalies are considered agricultural and/or natural in origin identifying patterns of field drains, former boundaries and ponds and ploughing trends.

# Section C

Location (NGR), size (hectares)	Heritage Asset Identifiers	Description	Geophysical Survey Comments
5297, 12860, 16341, 17871		No heritage assets are	No anomalies of clear archaeological potential are identified in this parcel.
602649 , 232946		recorded within this parcel.	
5.43ha			

5615 606360 , 229333 5.32ha		No heritage assets are recorded within this parcel.	No anomalies of clear archaeological potential are identified in this parcel.
12869, 12869a 602428 , 233610 15.71ha		No heritage assets are recorded within this parcel.	No anomalies of clear archaeological potential are identified in this parcel.
12871, 12871a 602557 , 233830 3.08ha		No heritage assets are recorded within this parcel.	No anomalies of clear archaeological potential are identified in this parcel.
12978 609725 , 228269 4.16ha		No heritage assets are recorded within this parcel.	No anomalies of clear archaeological potential are identified in this parcel.
11879, 17636, 17538, 11879, 11959, 11954, 11958, 11837 606272, 240018 24.31ha	MSF27253 MSF28976	Identified as an area for underground cable compounds.  This Priority Area lies partially within the recorded area of former WWII airfield RAF Raydon built in 1942-3.	No anomalies of archaeological potential are identified in 17636 or 11879 immediately adjacent the former Hadleigh Branch railway line (MSF28976). No survey has been undertaken in parcels 17538, 11959, 11954, 11958 or 11837.
11960 and 13102, 6169, 13101, 16669 606123, 239239, 606079, 238680 34.8ha	MSF27253 MSF45155	Location of a Sealing End Compound (CSEC), and underground cable.  This Priority Area lies partially within the recorded area of former WWII airfield RAF Raydon built in 1942-3.  Acacia Farm, Wenham Magna. Since demolished site of 19th century farmstead and farmhouse.	Several high magnitude discrete and linear anomalies of uncertain origin but likely consistent with features associated with the former RAF Raydon airfield (MSF27253) are recorded across 11960.  A cluster of weak, discontinuous anomalies in 13101 that do not form a coherent pattern may be of archaeological origin but might also be associated with the former airfield.  The remaining anomalies across these parcels identify field drains, ploughing trends and former field boundaries.
6144	MSF27253	Area of proposed underground cable.	No anomalies of clear archaeological potential are noted. The magnetic background to this field very

605780, 238468	MSF3721	This Priority Area lies to the south and partially within the	homogenous. Amorphous patches of low magnitude magnetic enhancement at the
7.14ha		recorded area of former WWII airfield RAF Raydon built in 1942-3 and a record of an irregular field boundary to the west.	field boundaries possibly identifies localised extraction however the responses are considered equally plausible natural in origin.
6094 605554, 237925 4.17ha	MSF44940	Area of proposed underground cable.  Pipers Went (Pipers Vent Farm), Raydon is located immediately outside the Priority Area to the northwest. This is a 19th century farmstead and farmhouse with regular courtyard F-shaped plan formed by working agricultural buildings. The farmhouse is set away from the yard. Only the farmhouse survives.	The magnetic background is very homogenous across this parcel. Anomalies are limited to a single patch of low magnitude response possibly indicative of localised extraction but equally plausible natural in origin and other faint sinuous trends considered natural in origin.
6090 605688, 237783 6.22ha	None	No heritage assets identified within this Priority area marked for a compound adjacent Acacia Road and the B1070 southeast of Raydon.	The magnetic background is very homogenous across this parcel. Anomalies are limited to a single patch of low magnitude response possibly indicative of localised extraction but equally plausible natural in origin and other faint sinuous trends considered natural in origin.
6086 605270, 237696 12.15ha	None	No heritage assets identified within this Priority area due for underground cable routing south of Raydon Road.	No survey undertaken in this parcel.
5840 and 6054 604882, 237221 12.08ha	MSF43860	No heritage assets identified within these adjoining Priority areas due for underground cable routing southeast of Raydon.  Noakes Barn is a farmstead visible on the 1st Ed OS map. The farmstead is laid out in a regular U-plan with additional detached elements and located immediately outside the Priority Area and Order Limits to the west.	No survey undertaken in this parcel.

5929, 5838 604912, 236662 22.7ha	MSF11981 MSF5103 MSF1822	Area of underground cable and compound.  No heritage assets identified within northern half of this Priority area west of Holton St Mary.  Sub-square or circular ring ditch of unknown date located within Priority Area north of B1068.  Roman artefact scatter of dark soil and pottery located 50m east of northern extent of Priority Area.	No anomalies of clear or possible archaeological origin are identified in the northern half of 5929. Anomalies are limited to sinuous and linear natural and agricultural trends. Traces of a possible lightning strike are also noted.  In southern half of the parcel two faint perpendicular linear trend anomalies of possible archaeological origin are recorded in the location of HER assets of a double-ditched rectangular enclosure (MSF1822) and sub-square or circular ring ditch (MSF11981). A cluster of discrete responses at the north-east corner of the parcel are considered most likely natural in origin. The remaining anomalies are considered to have natural and agricultural causes.  No survey undertaken in 5838.
5823 604669, 236228 3.66ha	MSF45056 MSF11981	Area of underground cable.  No heritage assets are identified within this parcel south of the B1068. Bobbitts Hall, Stratford St Mary a 19th century farmstead and farmhouse lies c. 85m outside the Priority Area to the east.  The northern edge of this parcel lies 50m southeast of a sub-square or circular ring ditch traversed by double ditched enclosure in 5929.	Findings from this parcel are limited to broad trends recording natural geological variation and magnetic disturbance surrounding two pylons. The natural variation likely records changes in overlying superficial deposits which vary in this location with different formations of sand and gravel and head deposits mapped here and that are evident as cropmarks on satellite images. A short section of a buried service aligned northeast/south-west is recorded crossing the southernmost piece of this parcel.
5807 604389, 235778 18.6ha, 0.13ha and 0.06ha	MSF11981 MSF5074 MSF45038	Area of underground cable.  No heritage assets are identified within this parcel adjacent Green Lane to the east.  The northern edge of this parcel lies 50m southeast of a sub-square or circular ring ditch traversed by double ditched enclosure in 5929.  The findspot of a Roman amphora is recorded immediately outside the southeast part of this parcel.  Brook Farm, Stratford St Mary a 19th century farmstead and 16th century farmhouse with	Further geological variation is recorded in this larger parcel stretching southwards between the B1068 and Green Lane. No anomalies of clear or possible archaeological are recorded and a restricted a small pattern of field drains. and a row of ferrous spike anomalies recording the location of a former boundary.

		converted buildings is located immediately outside the southernmost parcel of the Priority Area on the south side of Higham Road.	
5803 604103, 235454 12ha	MSF5095 MSF5074 MSF8581, MSF8582 MSF8459 MSF8461, MSF8462, MSF8464 MSF45038	Area of underground cable and a medium value heritage asset.  Mostly rectilinear field boundaries of unknown date are recorded within the Priority Area at the southern end of this area adjacent Higham Road.  A cluster of archaeological activity is recorded immediately south of this parcel on the south side of Higham Road in parcel 5549 (see below). This includes four ring ditches, three rectangular enclosures including a small rectangular enclosure with central feature and semi-circular enclosure all of unknown date.  The findspot of a Roman amphora is recorded 140m to the northeast of this parcel outside the Order Limits.  Brook Farm, Stratford St Mary a 19th century farmstead and 16th century farmhouse with converted buildings is located immediately outside this parcel on the south side of Higham Road.	A series of perpendicular linear ditch-like anomalies aligned roughly northeast/south-west and that consistent with rectilinear cropmarks recorded in the HER (MSF5095) have been recorded along the eastern edge of this parcel stretching between Green Lane and Higham Road. These ditches likely mark a continuation of activity in 5549 south of Higham Road (see below). The remaining anomalies record geological variation and ploughing trends.
5549, 5496 603883, 234690 21.35ha	MSF5095 MSF8581, MSF8582 MSF8459 MSF8461, MSF8462, MSF8463, MSF8464	Area of underground cable and a medium value heritage asset.  This Priority Area contains a cluster of archaeological activity concentrated in the northern part of the parcel adjacent Higham Road that also continues into the adjoining parcel to the north 5803 (see above). This includes four ring ditches, three rectangular	Three sides of two rectilinear enclosures are record at the south-west corner of the field adjacent Higham Road overlooking the River Stour to the south and correspond to heritage assets of enclosures (MSF5095, MSF8581 and MSF8582) in the HER. A semi-circular enclosure roughly 50m in diameter is recorded towards the centre of the parcel at NGR 603925, 235172) and confirms HEF asset MSF8462. Surrounding linear anomalies likely record associated ditches The remaining anomalies are considered
	MSF45038 MSF43748	enclosures including a small rectangular enclosure with central feature and semi-	natural and/or agricultural in origin.  No anomalies of clear archaeological potential are identified in 5496

	MSF45039	circular enclosure all of unknown date.  Further activity is recorded north of Higham Road where mostly rectilinear field boundaries of unknown date are recorded within the Priority Area at the southern end of this area adjacent Higham Road.  Three farmsteads (Higham Hall, Brook Farm and Yewtree House) lay immediately outside the Priority Area to the east and west.  The medieval Church of St Mary lies immediately outside the Priority Area to the west.	immediately north and east of the River Stour. These parcels lay within the floodplain of the river which is reflected in the survey data recording former channels and amorphous spreads of discrete anomalies likely from alluvial deposition. A buried service lies parallel to the field boundary that separates the south-eastern most fields within the parcel.
5479 603696, 234142	MCC9060 MCC9078 MCC8140	Area of underground cable and a medium value heritage asset.  Cropmarks, comprising a group of approximately 12 ring ditches plus elements of a rectilinear field system are situated on the south bank of the River Stour within the Order Limits.	A possible settlement complex is identified on the south bank of the River Stour, centred at NGR 603700, 234400, comprising of a series of rectilinear partitioned enclosures in the location of heritage asset MCC9060. A buried service aligned east/west crosses the southern extent of this activity. Approximately 275m west of this the survey has recorded a number of discontinuous linear/rectilinear anomalies that define at least two further enclosures/fields, a possible trackway and a single ring ditch, centred at NGR 603300, 234500.  A broad low magnitude curving feature possibly identifies a former river channel crossing the parcel.
50.47ha	EHER2717 EHER 2747	Findspot of Roman dupondius coin of Trajan.  NMP cropmarks of enclosures, possible enclosures, round barrows.	No anomalies of clear archaeological potential are recorded in the fields northwest of St Mary's church in the location of several HER PAS findspots. A buried service aligned north-east/south-west crosses the parcel.  South of St Mary's Church a large subcircular enclosure nearly 50m in length is recorded at NGR 603500, 233400 in the location of undated cropmarks (MCC9102). A possible trackway and ditch type anomaly lie just to the north. A buried service crosses the north-east corner of this field immediately south of Cosgrove Cottage.

			The remaining anomalies from this large parcel are considered natural and/or agricultural in origin.
5304, 5293 603301, 233188 14.65ha	MCC9102 EHER 2779 EHER 2781 MCC9104 MCC9436 MCC9375	Area of medium value heritage asset and underground cable.  Undated cropmarks, east of Langham and NMP cropmark data of former boundaries, a trackway and possible enclosure are recorded within the Priority Area. A possible ring ditch is located immediately outside the Priority Area to the southeast.  Undated cropmarks south of Glebe Farm, Langham and NMP cropmark data of four linear ditches are identified within the Priority Area.	Two sides and the south-east corner of a probable enclosure, centred at NGR 603250, 233250 are recorded either side of the track splitting 5304. Linear ditch-like anomalies extend south from this probable enclosure. All features are recorded in the general location of undated cropmarks in the her (MCC9102). Four perpendicular services are identified in the southernmost field of this parcel and the remaining anomalies are considered of natural and/or agricultural origin.
		Two PAS findspots from the medieval and post-medieval period are also recorded within this Priority Area parcel.	
5300, 5252 603600, 233275 7.67ha	MCC9102 EHER 2779	Area of underground cable and compound. A medium value heritage asset is recorded.  Undated cropmarks and NMP cropmark data record some short ditches of unknown date partially within this parcel.	Parcel 5300 has not been surveyed.  No anomalies of note are recorded in 5252 off Ipswich Road.
5232 603330, 232650 7.67ha	MCC9104	Area of underground cable.  Undated cropmarks, south of Glebe Farm, Langham are recorded as extending into this Priority Area, though no other heritage assets are identified within this parcel.	A buried service aligned north-west/south-east crosses the western parcel. No other anomalies of note are identified and none that are considered likely associated with undated cropmarks in this location.  A spread of magnetic disturbance possibly caused by a large buried service immediately outside the survey area covers the eastern part immediately north of Irrigation Reservoir.
5223 603075, 232635 4.22ha	MCC9104	Area of underground cable.  Undated cropmarks, south of Glebe Farm, Langham are recorded as extending into this Priority Area, though no other	Faint linear anomalies possibly defining a series of enclosures are recorded at NGR 603000, 232300, in the location of undated cropmarks (MCC9104) in the HER. Broad low magnitude responses are considered natural in origin identifying channel type features and a perpendicular

		heritage assets are identified within this parcel.	service pipe is identified in the eastern part of the parcel.
5190 603129, 232362 2.11ha	MCC9103 EHER 2780	Area of underground cable.  No heritage assets are identified in this parcel though undated cropmarks, near Langham are recorded in the immediately adjoining field to the south (see 5172 below).	Findings are limited to a buried service pipe along the northern edge of the parcel and associated magnetic disturbance.
5172 603257, 232081 11.66ha	MCC9103 EHER 2780 MCC9431	Area of underground cable.  Undated cropmarks, near Langham are recorded across this parcel adjacent Ipswich Road.  NMP cropmark data has recorded linear ditches within and a triple ditch enclosure immediately outside the Priority Area to the southwest off of Perry Lane.	Findings are limited to geological patterning and two buried service piper in the easternmost parcel, one alongsid the A12 which bounds the parcel and another which cross the southern part of the field. No anomalies are identified the could relate to undated cropmarks (MCC9103) covering this parcel in the HER.
		A PAS findspot lies within the same field but outside the Priority Area/Order Limits.	
5173 603660, 231939 5.54ha	MCC10332 MCC10280 MCC9122 EHER 17848	Area of underground cable.  Two Late Iron Age PAS findspots and undated cropmarks of ditches are recorded within the Priority Area adjacent the A12.  Cropmarks of an enclosure and two post-medieval PAS findspots are recorded in the neighbouring field to the east.	This parcel is partially surveyed. A single faint ditch-like response of undetermine archaeological potential, aligned rough east/west crosses the eastern part of the parcel. Magnetic disturbance is recorde along the southern edge of the parcel possibly from a buried service immediately outside the PA.
5120 603740, 231678 8ha	EHER 2724 MCC8755 MCC10315	Area of underground cable and a medium value heritage asset.  Parcels 5120, 5131, 5113 and 5100 are all located within the same field. A cluster of enclosures, ditches and field boundaries are recorded spread	No survey undertaken in this parcel.
		across these four parcels contained within the same field north of Birchwood Road.  In addition to cropmarks of enclosures and ditches, a medieval bronze padlock	

		and two post-medieval PAS findspots are located within this parcel.	
5131	EHER 2724	Area of underground cable and	No survey undertaken in this parcel.
603913, 231638	MCC9088	a medium value heritage asset.	
1.00ha		Parcels 5120, 5131, 5113 and 5100 are all located within the same field.	
		A cluster of enclosures, ditches and field boundaries are recorded spread across these four parcels contained within the same field north of Birchwood Road.	
		A findspot of a Roman stone figure of an infant is recorded 35m east of this parcel outside the Order Limits.	
5113, 5117	EHER 2724	Area of underground cable and a medium value heritage asset.	No survey undertaken in this parcel.
603961, 231528		Parcels 5120, 5131, 5113 and	
0.7ha		5100 are all located within the same field.	
		A cluster of enclosures, ditches and field boundaries are recorded spread across these four parcels contained within the same field north of Birchwood Road.	
5100 603973, 231443	EHER 2724	Area of underground cable and a medium value heritage asset.	No survey undertaken in this parcel.
0.63ha		Parcels 5120, 5131, 5113 and 5100 are all located within the same field.	
		A cluster of enclosures, ditches and field boundaries are recorded spread across these four parcels contained within the same field north of Birchwood Road.	
5017	EHER 2724	Area of underground cable,	This parcel is largely complete, c. 1.3ha
604095, 231267	MCC9065	compound and a medium value heritage asset.	remaining though no anomalies of clear or possible archaeological potential are

17.6ha		This area marks a continuation of the cluster of enclosures, ditches and field boundaries identified north of Birchwood Road spread across parcels 5120, 5131, 5113 and 5100. A trackway aligned northwest-southeast is identified in this parcel.	recorded. Findings are limited to a buried service parallel to Birchwood Road, a pattern of field drains and geological trends. No anomalies consistent with cropmarks (MCC9065) recorded in the HER are identified by the survey.
5001 604442, 231091 13.77ha	MCC9065 MCC9168	Area of underground cable and a medium value heritage asset.  The western half of this parcel lies within the general area of archaeological activity marked by enclosures, ditches and a trackway identified to the northwest (see 5017, 5100, 5113, 5120 and 51131).  The eastern part of this parcel is part of Dedham Heath medieval period common land.	A series of broad low magnitude irregular shaped and sinuous responses are considered natural in origin despite forming a pattern suggestive of irregular shaped enclosures. Geological patterning of this nature is widespread across the area around Ardleigh Heath and is clearly visible on 2018 Google Earth satellite imagery. A former field boundary is recorded as a loose spread of magnetic disturbance and ferrous spike anomalies. A service pipe aligned north/south crosses the parcel east of centre. A pattern of field drains is recorded in the eastern part of the field.
4897 604804, 230874 0.65ha	EHCR 17851, MEX1031659 MCC9168	Area of underground cable.  Cropmarks of a number of parallel linear features are recorded within this Priority Area at Malting Farm.  Dedham Heath medieval period common land lies immediately to the north.	Findings are limited to field drains aligned parallel to Dedham Road and magnetic disturbance adjacent Malting Farm Lane.
5719 and 5728 605114, 230809 and 605503, 230019 9.57ha and 18.4ha	MCC9168  EHCR 17478, MEX1031545  EHCR 17105, MEX43478  EHCR 2773, MEX9880	Area of underground cable.  Dedham Heath medieval period common land partially covers the northwestern part of this parcel.  A cropmark of a rectilinear enclosure and a curvilinear enclosure of unknown dates are recorded north of Ardleigh village and at Rookery Bungalow respectively within the Priority Area.  A field boundary is also recorded north of Ardleigh village within the Priority Area.	A series of broad low magnitude irregular shaped and sinuous responses are considered natural in origin despite forming a general pattern suggestive of field systems and/or boundaries.  Geological patterning of this nature is widespread across the area around Ardleigh Heath and is clearly visible on 2018 Google Earth satellite imagery. A former field boundary parallel to Rookery Chase road is the only anomaly of note from the northwestern part of parcel 5719.

5739 605207, 230280 20.3ha	EHCR 17478, MEX1031545 EHCR 2773, MEX9880	Area of underground cable.  No heritage assets are recorded within this Priority Area however heritage assets relating to a rectilinear enclosure and field boundaries are recorded immediately to the southeast and east respectively.	Broad low magnitude irregular shaped and sinuous responses considered natural in origin continue into the parcel. This geological patterning is widespread across the area around Ardleigh Heath and is clearly visible on 2018 Google Earth satellite imagery. A spread of magnetic disturbance identifies the location of a since demolished building evident on historic OS mapping and a service pipe aligned north-east/south-west cross the eastern boundary shared with 5719. The remaining anomalies are considered agricultural in origin identifying former boundaries, field drains and ploughing trends.  No survey undertaken in this parcel.
5704 605978, 229750	None	Area of underground cable.  No heritage assets are recorded	ino survey undertaken in this parcel.
3.9ha		within this Priority Area adjacent the A137.	
5626	EHCR 3502, MEX12738	Area of underground cable.	No survey undertaken in this parcel.
606109, 229512	WILX 12730	No heritage assets are recorded within this Priority Area	
7.68ha		however a cropmark site is recorded in the neighbouring field also within the Priority Area to the south (see 5596).	
5596	EHER 3502, MEX12738	Area of underground cable and medium value heritage assets.	A single curving ditch type anomaly of possible archaeological origin is recorded
606197, 229166	EHCR 55176,	An area of cropmarks consisting	at the edge of the PA in the approximate
14.5ha	MEX104867	of ditches, pits, a trackway and field systems covers all of this	location of a PAS findspot (MEX1046867) and area of cropmarks (MEX12738). The
	EHCR 51839, MEX1043530	Priority Area. Three PAS findspots of Iron Age, post medieval and unknown date are also recorded within the Priority Area.	remaining linear anomalies are considered of natural and/or agricultural origin identifying former field boundaries
	EHCR 51931, MEX1043622		and ploughing trends.
	EHCR 2652, MEX9352	Three sides of a rectilinear enclosure are recorded in the adjacent area to the east (see below 5592).	
5592	EHCR 3502, MEX12738	Area of underground cable, compound and medium value	Two faint linear trends recorded against an homogenous magnetic background
606642, 228868	EHCR 2652,	heritage assets	mark the location of former field boundaries evident on historic mapping.
12.17ha	MEX9352 EHCR 56298. MEX1047989	Three sides of a rectilinear enclosure with two entrances on the east side, one on the south, long side is recorded	No traces of an enclosure or anomalies consistent with cropmarks recorded in the HER are identified. Cultivation trends

	EHCR 52833, MEX1044524	within this Priority Area which lies immediately adjacent an area of cropmarks consisting of ditches, pits, a trackway and field systems that covers neighbouring parcel 5596, 5615 and 5588.	remain the only other identifiable anomaly in this parcel.
		A PAS findspot of Roman date is recorded towards the southeast corner of this Priority Area.	
5611 607389, 229314	EHCR 2607, MEX9188	Location of medium value heritage asset and EACN substation.	Findings are limited to ploughing trends, a faint linear anomaly recording the line of a former field boundary and magnetic
3.46ha		A large area of cropmarks with a ring ditch, field system and field boundary with linear features at right angles to a Roman road, extends across most of this Priority Area.	disturbance at the field boundary. No anomalies consistent with cropmarks associated with heritage asset MEX9188 located further to the south are identified.
5603 10.31ha	MEX43488	Cropmarks of enclosures, field boundaries and trackways at Grange Road.	Anomalies are limited to two linear and curvilinear trends recording former field boundaries, agricultural ploughing trends and magnetic disturbance surrounding a large pylon base.
5601 3.3ha	MEX9188	Location of medium value heritage asset and EACN substation.	No survey undertaken in this parcel.
		A large area of cropmarks with a ring ditch, field system and field boundary with linear features at right angles to a Roman road, extends across most of this Priority Area.	
5598 2.47ha	MEX9188	Location of medium value heritage asset and EACN substation.	No survey undertaken in this parcel.
		A large area of cropmarks with a ring ditch, field system and field boundary with linear features at right angles to a Roman road, extends across most of this Priority Area.	
		Location of medium value	
5597 35.4ha	MEX9188	heritage asset and EACN substation.  A large area of cropmarks with a	No survey undertaken in this parcel.

		right angles to a Roman road, extends across most of this Priority Area.	
5594 4ha	EHCR 2652, MEX9352	Adjacent to field containing three sides of a rectilinear enclosure with two entrances on the east side, one on the south, long side is recorded within this Priority Area which lies immediately adjacent an area of cropmarks consisting of ditches, pits, a trackway and field systems.	No survey undertaken in this parcel.
4446 7.6ha 604594, 229649	EHCR 2367, MEX8241	Location of medium value heritage asset.  Cropmarks of field boundaries removed since the 1968 6" OS maps are recorded across this parcel.	Anomalies are limited to broad, low magnitude sinuous trends considered natural in origin and intersecting linear trends identifying former field boundaries
4362 3.6ha 604337, 229485	EHCR 2367, MEX8241	Location of medium value heritage asset.  Cropmarks of field boundaries removed since the 1968 6" OS maps are recorded across this parcel.	An irregular shaped, low magnitude, sinuous response located in the northwest part of the parcel enclosing an area of increased background discrete responses is considered natural in origin. Geological patterning of this nature is widespread across the area around Ardleigh Heath and is clearly visible on 2018 Google Earth satellite imagery.  A service pipe aligned north-west/southeast crosses the length of the eastern half of the parcel. A service also likely encroaches from the north-west corner of the parcel. A wide strip of magnetic disturbance along the western limit of the parcel indicates a further large service lies immediately parallel but outside the western limit of the PA. This likely extends south into parcels 4290, 4301, 11408 and 12734.
4290 604205, 229217 1.04ha	EHCR 2367, MEX8241	Location of medium value heritage asset.  Cropmarks of field boundaries removed since the 1968 6" OS maps are recorded across this parcel.	Magnetic disturbance from a large buried service aligned parallel to the parcel covers the entire parcel. The pipe extend to the north and south across 4362 and 11408/12734 respectively.
4301, 11408, 12734 0.6ha	EHCR 2367, MEX8241	Location of medium value heritage asset.	The PA follows the line of a buried servic The magnetic disturbance from this large

		Cropmarks of field boundaries removed since the 1968 6" OS maps are recorded across this parcel	buried service covers the entirety of the parcels.
4364, 4414 1.5ha	EHCR 2367, MEX8241	Location of medium value heritage asset.  Cropmarks of field boundaries removed since the 1968 6" OS maps are recorded across this parcel	No surveys undertaken in these parcels.
4387 604081, 229591 0.70ha	EHCR 2367, MEX8241	Location of medium value heritage asset.  Cropmarks of field boundaries removed since the 1968 6" OS maps are recorded across this parcel.	No anomalies of archaeological potentia are identified. Findings are limited to natural background variations and magnetic disturbance at the field boundary.
4405, 4514 603948, 229700 3.57ha	EHCR 2367, MEX8241	Location of medium value heritage asset.  Cropmarks of field boundaries removed since the 1968 6" OS maps are recorded across this parcel.	One former field boundary is identified across a relatively homogenous magneti background. No other anomalies of note are identified.
4428 603806, 229776 1.06ha	EHCR 2367, MEX8241	Location of medium value heritage asset.  Cropmarks of field boundaries removed since the 1968 6" OS maps are recorded across this parcel.	The parcel is partly surveyed and identified anomalies are restricted to agricultural ploughing trends.

# Section D

Location (NGR), size (hectares)	Heritage Asset Identifiers	Description	Geophysical Survey Comments
4527, 4653, 4707, 4693, 4694 601473, 230116 22.57ha	EHER 8913 MCC7126	Location of medium value heritage asset.  This section of the route crosses the site of former Boxted WWII Airfield, Langham. Cropmarks of the former runway and field boundaries are recorded.	The survey has identified clusters of magnetic disturbance, linear and ferrous spike anomalies caused by features associated with former Boxted WWII airfield (MCC7126). The only other anomalies are determined natural and agricultural in origin identifying former boundaries and field drains. A linear ditch-like anomaly at the very western edge of the parcel off Langham Lane remains of uncertain origin.

4765 4.6	MCC10122	Location of underground cable.  Historic heath shown on the 1777 Chapman & Andre Map and shown on the County Series at 1:2500 Scale Epoch 1 Map (1874-1887) covers this Priority Area.	No survey undertaken in this parcel.
4793 599006, 230497 6ha	MCC10122 MCC9149	Location of underground cable.  Historic heath shown on the 1777 Chapman & Andre Map and shown on the County Series at 1:2500 Scale Epoch 1 Map (1874-1887) covers this Priority Area.  Charcoal-rich pits, south of Redhouse Farm are also recorded in the HER at the	The magnetic background is very homogenous. Findings are limited to buried service pipes recorded in the northwest and north-eastern arm of the parcel and agricultural trend anomalies.
4796 598496, 230574 11.8ha	EHER 8912 MCC7125	western end of the Priority Area.  Location of underground cable, compound, compound sealing ends and medium valued heritage asset.  A cropmark complex including ring ditches, field boundaries, linear features, pits and a trackway plus a field system at Horkesley Plantation is recorded in the HER towards the centre of the Priority Area.	The survey has not recorded any clear anomalies consistent with a cropmark complex (MCC7125) recorded in the HER. A small cluster of discrete magnetically enhanced responses at the western boundary adjacent a buried service, remain of uncertain origin. Two linear trends record former field boundaries to the north and south of the service which crosses the parcel aligned east/west.
4779 598207, 230554 3.6ha	MCC4120 EHER 8912 MCC7125 MCC7204	Area of underground cable.  No heritage assets are recorded within the main northern part of this Priority Area however a PAS findspot of Roman to early medieval date is recorded in the separate narrow corridor across the centre of the field.  A cropmark complex including ring ditches, field boundaries, linear features, pits and a trackway plus a field system at Horkesley Plantation is recorded in the neighbouring field to the east (4796).	The survey data contains a high level of magnetic disturbance indicating the field has been spread by 'green waste' used as a soil improver. The density of the magnetic noise is determined not to preclude the identification of potential archaeological features if present, however the only findings consist of linear trends recording former field boundaries.  The southern part of the parcel is covered by magnetic disturbance and follows the line of the buried service recorded in adjacent 4796.

4950 598203, 230844 8.54ha	MCC10123 MCC9334 EHER 8912 MCC7125	A post medieval cemetery is located immediately outside the Priority Area to the west.  Area of underground cable.  Late Iron Age occupation features, south of Boxted Road, Great Horkesley are recorded in the southern part of this Priority Area. An archaeological strip, map and excavation by Oxford Archaeology East during the construction of a water pipeline in 2014-15, defined ditches and pits and postholes with one pit dating to the first half of the 1st century.  Two cropmark complexes including ring ditches, field boundaries, linear features, pits and a trackway plus a field system at Horkesley Plantation is recorded In the adjacent field to the southeast (4796) with a further undated cropmark complex in the field immediately to the west (see 4937).	Similar to adjoining 4779 to the south the parcel appears to have been spread with magnetic contaminants from 'green waste'. Again the density of the magnetic noise is determined not to preclude the identification of potential archaeological features if present, however the only findings consist of a linear trend recording a former field boundary.
4937 597910, 230895 8ha	MCC9334 MCC4118 MCC10123	Location of underground cable, compound sealing ends and medium valued heritage asset.  An undated cropmark complex east of Great Horkesley is recorded at the centre of this priority area.  A Portable Antiquities Scheme findspot of Post Medieval date is also recorded close to the western boundary with the A134.  Late Iron Age occupation features, south of Boxted Road, Great Horkesley are recorded in the adjoining field/Priority Area to the east (4950).	Illus 64/65 – One former boundary, disturbance and agricultural trends.  No anomalies consistent with a cropmark complex and/or Iron Age occupation features are evident in the survey data. A linear trend denoting a former boundary and cultivation trends at the headland of the field are the only anomalies recorded across the parcel.
4970 597458, 230818 14.1ha	MCC7207 MCC4742	Location of underground cable, compound sealing ends.  Undated monument 'Old house field' covers this parcel.	Anomalies are limited to natural background and agricultural trends from ploughing and field drains, except for a single discrete magnetically enhanced response of uncertain origin. The anomaly

		Undated cropmarks, North of Gean Trees, Great Horkesley lay immediately outside the Priority Area to the south, partially within 4635 (see below).	is most likely natural in origin and located close to the field boundary separating the two fields. No anomalies that might relate to cropmarks immediately adjacent the parcel are identified.
4625 4700		Area of underground cable.	No survey undertaken in this parcel.
4635, 4788 597061, 230587 15ha	MCC4742	Undated cropmarks, North of Gean Trees, Great Horkesley lay partially within but largely outside the eastern end of this Priority Area.	
4879		Area of underground cable.	The survey findings are limited to natural background variation recorded as a series
596642, 230691 2.13ha	None	No heritage assets are identified within or adjacent this Priority Area.	of sinuous low magnitude trends set against an homogenous magnetic background.
4664 596466, 230558 and 595796,	MCC5658	Area of underground cable.  No heritage assets are identified within or adjacent the larger easternmost parcel within this Priority Area.	A very large 'spike' anomaly caused by a cattle feeder and other high magnitude responses from temporary livestock fences are the only anomalies recoded across the two easternmost fields of this parcel.
230374 2.93ha and 0.64ha	MCCSoSo	The westernmost parcel adjacent Vinesse Road is located next to cropmarks of possible enclosure to the west (see 4647 below).	The westernmost parcel adjacent Vinesse road was not surveyed.
4942		Area of underground cable.	Only the western half of this parcel was surveyed where findings are limited to
596109, 230582 9.74ha	None	No heritage assets are identified within or adjacent this Priority Area.	agricultural trends of former boundaries and field drains only.
4783		Area of underground cable.	The survey has recorded two field drains as
595856, 230475	None	No heritage assets are identified within or adjacent this Priority	linear anomalies against an homogenous magnetic background.
1.42ha		Area.	
4647 595527, 230276 11.07ha	MCC5658	Area of underground cable and medium value heritage asset.  Cropmarks of possible enclosure are recorded across this Priority Area and neighbouring 4209 to	A possible ditch-like anomaly likely associated with an area of archaeological enclosure in adjacent 4209 (see below) extends into the parcel from the west.  The remaining linear anomalies identify a regular pattern of field drains and former boundaries set against an homogenous
		the west.	magnetic background.  A buried service curves inside the northern field boundary and is recorded as a very high magnitude anomaly.

4209 595074, 230234 14ha	MCC5658 MCC9370 MCC9553 MCC9582 MCC5244	Area of underground cable, compound sealing ends, underground cable compound and medium value heritage asset.  Cropmarks of possible enclosure are recorded across this Priority Area and neighbouring 4647 to the east. PAS findspots of late Iron Age, late Roman and early medieval to medieval date have also been recorded within the western half of the Priority Area.  A medieval boundary ditch lies c. 30m outside the Priority Area boundary.	The survey has identified a large internally partitioned square enclosure approximately 155m in diameter centred at NGR595040, 230270. Numerous discrete magnetically enhanced pit-like anomalies are identified within. The enclosure coincides with cropmarks of an enclosure (MCC5658) and a large number of PAS findspots of late Iron Age to early Medieval date. A smaller less clear cluster of ditchlike anomalies may identify a further irregular shaped enclosure at the eastern boundary shared with 4647.  The remaining anomalies identify a pattern of field drains, ploughing trends and former field boundaries.
4179 593864, 228637 6.85ha	MCC8753 EHER 17083 MCC8641	Area of medium value heritage asset.  Cropmarks of a possible enclosure and probable medieval moated site lay within the Priority Area.  Cropmarks of the former Parish boundary (the boundary is still in administrative use) between Fordaham and West Bergholt lay outside the Priority Area but within the Order Limits of this parcel to the north.	The parcel is partially surveyed. No anomalies considered of archaeological potential are identified in the northernmost piece where the only findings include a broad low magnitude linear anomaly likely identifying a former natural channel and ploughing trends.  A right-angled ditch-like, low magnitude anomaly approximately 50m in diameter, is located at NGR 593860, 228630 adjacent Fossetts Lane in the location of cropmarks of a probable moated site (MCC8641). Possible pit-like responses are identified within the feature and faint ditch-like responses are recorded just to the north however the responses are too weak to interpret with any greater confidence. The remaining anomalies identify a regular pattern of field drains and former field boundary.
4128, 4128a, 4128b, 4128c, 4128f 593139, 227670 12.29ha	MCC8645 MCC7078 MCC7079 EHER 11952 MCC7730 MCC8646	Area of medium value heritage asset.  Cropmarks of former field boundaries, some of which appear on the OS 1st edition lay within the northeastern part of this Priority Area.  Various archaeological features have been recorded in the western half of this parcel at Fordham Hall Farm bound by Mill Road to the west.	These parcels are located between Fossetts Lane and Mill Road. No anomalies considered of archaeological potential are recorded in the eastern parcels 4128c and 4128f where findings are limited to natural and agricultural trend anomalies and a buried service along the length of 4128f.  A rectilinear enclosure measuring approximately 60m x 105m centred at NGR 592995, 227600 is identified in the location heritage assets of cropmarks and possible Roman villa site just north of the River Colne. Few internal anomalies are recorded

Cropmarks defined by aerial and the survey results do not appear to photography identified suggest dense archaeological activity rectilinear enclosures, pits, a within the PA. A small circular anomaly trackway and area of extraction. approximately 9m in diameter may identify A geophysical survey in 2013-14 a ring ditch within the same field roughly of a small area of the field 85m east of the enclosure. The remaining located a number of linear anomalies in 4128 are limited to ploughing features that suggest ditched trends and low-level magnetic background enclosures (interpreted as variation. Roman but could be later). A possible Roman villa site is recorded in the HER and excavation following the location of a lead coffin by metal detector revealed two Roman burials. Cropmarks of linear features and a faint enclosure are located immediately outside the Priority Area to the northwest on the western side of Mill Road. Cropmarks of a ring ditch and large areas of amorphous cropmarks which may represent ground disturbance are recorded on the opposite side of Mill Road in Priority Area 4121 (see below). Area of medium value heritage No survey undertaken in these parcels. asset. Cropmarks of extraction, linear features, rectangular `pits' probably agricultural in origin are located within the Priority Area south of the River Colne. MCC7762 Cropmarks of a ring ditch and 4020, 4010 large areas of amorphous EHER 11993 cropmarks which may represent 592610, 227055 ground disturbance are MCC8646 4.92ha recorded within the MCC7711 neighbouring Priority Area to the north (see 4121 above). Cropmarks of five ring ditches including one double ring ditch lay outside the Order Limits on the western side of the River Colne c. 50m from the nearest point of this Priority Area.

4032 592778, 226708 2.25	MCC7762 EHER 11993	Area of medium value heritage asset.  Cropmarks of linear features, rectangular `pits' probably agricultural in origin cover this Priority Area. An incomplete enclosure cropmark also lays within the Priority Area.	Magnetic disturbance from two parallel service pipes aligned roughly east/west, covers most of the eastern parcel. The southern arm of this parcel follows the line of another buried service, the effect of which also obscures all of the data from this area.  The remaining anomalies identify ploughing trends.
3628 0.3ha	MCC8640 EHER 14377 MCC8643	Area of medium value heritage asset.  Undated cropmarks and the cropmark of a field boundary at Aldhamhall Wood, Aldham lay within the Priority Area.  Cropmarks of former field boundaries, in two phases, one group of which appear on the OS 1st edition are located immediately outside the Priority Area and Order Limits to the northwest.	This narrow section follows the line of a buried service west off Chippetts Lane. The response from the pipe covers the entire parcel and no meaningful data is recorded.
3638, 3715 591841, 225224 8.86ha	MCC8640 EHER 14377 MCC8643	Area of medium value heritage asset.  Undated cropmarks and the cropmark of a field boundary at Aldhamhall Wood, Aldham lay within the Priority Area.  Cropmarks of former field boundaries, in two phases, one group of which appear on the OS 1st edition are located immediately outside the Priority Area and Order Limits to the northwest.	No survey was undertaken in 3715.  The same buried service recorded in 3628 is observed crossing the southern part of 3638. The survey has not identified any anomalies considered of possible or probable archaeological potential and the findings are limited to natural and agricultural trends.
3625 591450, 224984 7.05ha	MCC7577 MCC7081 MCC9805 MCC9804 MCC9931	Area of medium value heritage asset.  Iron Age to medieval findspots recorded on the Portable Antiquities scheme.  Cropmarks of rectilinear enclosures, a trackway and linear features have been recorded.	The survey has recorded a continuation to the buried service recorded in 3638 along the southern boundary of the parcel. No other anomalies of note are identified and none that might relate to findspots and cropmarks recorded nearby.
3607 589122, 224311	MCC6931 EHER 8798	Area of medium value heritage asset.	The survey findings are limited to ploughing trends and magnetic disturbance at the field boundary. No

1.6ha	MCC7017	Cropmarks of a trackway or road, double-ditched on either side possibly identifies the line of Roman road. The cropmark is continued by Great Tey Road south down to Stane Street (A120).	anomalies likely associated with nearby HER assets are identified.
		A square enclosure lies outside the Order Limits c. 110m west of the access track proposed off Brook Lane.	
		Little Tey House and a possible medieval moat lay immediately outside the Priority Area on the east side of Great Tey Road.	
2560 2562	MCC6021	Decreed on a factor of	Nie zwy wydadalau Scharowych
3569, 3563	MCC6931	Proposed area of compound.	No survey undertaken in these parcels.
589032, 224050	EHER 8798	Cropmarks of a trackway or road, double-ditched on either side	
4.3ha	MCC7017	possibly identifies the line of Roman road. The cropmark is continued by Great Tey Road south down to Stane Street (A120).	
		A square enclosure lies outside the Order Limits c. 110m west of the access track proposed off of Brook Lane.	
		Little Tey House and a possible medieval moat lay immediately outside the Priority Area on the east side of Great Tey Road.	

## Section E

Location (NGR), size (hectares)	Heritage Asset Identifiers	Description	Geophysical Survey Comments
3150	EHCR 8771,	Medium value heritage assets.	No anomalies of note are identified from
586005, 221020	MEX28161	Cropmarks of linear features,	this narrow parcel south of the River Blackwater. Anomalies are limited to
3.9ha	EHCR 8691, MEX27898	small rectangular enclosure(?), stretch of curving trackway, recently removed field	agricultural ploughing trends and natural background variation.

	EHCR 8802, MEX2854	boundaries and several large rectangular `pits' are recorded across the two easternmost Priority Areas located in the same field located within the bend in the River Blackwater.  Site of post-medieval Fulling Mill is situated c.30m south of the southeast corner outside the Priority Area but within the Order Limits.  Cropmarks of a rectangular enclosure cut by a hedge with possible ring ditch just outside is located within the narrow corridor section of the westernmost parcel in	
3086 and 3092 584765, 220103 20.2ha	EHCR 14188, MEX38906	Area of medium value heritage asset.  Medium/High value heritage asset.  Cropmarks of former field boundaries, none of which appear on the OS 1st edition are recorded largely outside the Order Limits to the north and west. Priority Area accounts for small overlap areas with this heritage asset.  Priority Area accounts for small overlap areas along shared field boundary with this heritage asset.	A number of faint linear ditch-like anomalies located at the western field boundary and towards the centre of the parcel remain of uncertain origin. These anomalies could identify former boundaries and/or ditch-like features with archaeological potential and are located within an area of cropmarks (MEX38906) recorded in the HER. The remaining anomalies record field drains and natural background variations.  No survey was undertaken in 3092.
2810 576898, 217622 19.2ha	EHCR 14001, MEX38518	Location underground cable and sealing end compound.  No heritage assets are recorded within this Priority Area though the southernmost parcels lay immediately adjacent cropmarks of linear features and field boundaries in Priority Area 2767 (see above).	A single curving ditch-like anomaly aligned roughly north-west/south-east spans the parcel and whilst in isolation remains of uncertain origin. The feature does not correspond to any mapped boundaries and neither are any heritage assets recorded in this location. A single magnetically enhanced discrete response is recorded at the south-west boundary and in isolation remains of uncertain origin. The remainder of the anomalies record field drains and natural background variations. Minor interference from overhead power

			cables is also recorded between the two pylons within the parcel.
2790 576591, 217740 4.02ha	none	Location of underground cable.  No heritage assets are recorded within this Priority	A buried service crosses the northwest corner of the PA. The remainder of the anomalies record natural background variations and modern cultivation trends.
2772, 11283, 2743, 11258 576357, 217588 17.88ha	EHCR 14003, MEX38522 EHCR 49745, MEX1050372 EHCR 14004, MEX38525 EHCR 5982, MEX20241	Location of underground cable compound.  Cropmarks of linear features (field boundaries) and possible parts of rectilinear and curvilinear enclosures are recorded in the eastern part of this Priority Area and also around Dines Hall in the west.  The southeast corner of managed ancient woodland Hallhook Row falls within a small corner of this Priority Area.  A medieval moat is recorded at Dines Hall c. 35m outside the Priority Area access track extending south from Ranks Green Road.	Very faint linear ditch-like trends in the easternmost field of 2772 adjacent Fairstead Road remain of uncertain origin. Three of these possibly form an open rectilinear enclosure centred at NGR 576355, 217755 and broadly correspond to cropmarks of possible enclosures (MEX38522) in the HER. A further small cluster of ditch-like responses are identified immediately east of a modern track off Ranks Green Road centred at NGR 575700, 217590 also correspond to cropmarks in the HER (MEX38525).  The remainder of the anomalies within 2772 are considered agricultural in origin identifying former field boundaries evident on historic mapping, field drains and modern cultivation trends.  No survey has been undertaken in 11283.

## Section F

Location (NGR), size (hectares)	Heritage Asset Identifiers	Description	Geophysical Survey Comments
2106 566542 , 208591 5.81ha		No heritage assets are recorded within this parcel.	Several linear and rectilinear anomalies in the south-west may record former field systems predating available historical maps, while a number of curvilinear and subcircular anomalies in the same area may identify small enclosures of prehistoric date. Collectively these are given a possibly archaeological interpretation.

2584 571113,214114		No heritage assets are	No anomalies of clear archaeological potential are identified in this parcel.
2.09ha		recorded within this parcel.	
		Area of compound and medium value heritage asset.  A rectilinear enclosure at Great	A small cluster of faint perpendicular linear ditch-like anomalies of uncertain origin are identified at the western corner of the easternmost field centred at NGR
2587	EHCR 47685, MEX1040666	Stonage Farm is located in the western half of this Priority	572010, 214500.  The remaining anomalies are considered of agricultural origin identifying a former field boundary and modern ploughing trends. The southernmost field of the parcel contains a greater amount of magnetic disturbance particularly along the northern and western field boundary adjacent Braintree Road.
572119, 214536	EHCR 6121,	Area.	
19.1ha	MEX20620	Stonage Farm is located tre outside the Priority Area c.60m from the nearest part of the survey area.	
		Area of proposed compound.	No anomalies of note are recorded against an homogenous magnetic background across this parcel. Linear
2580 571775, 214195	FUCD 4760F	No heritage assets are recorded within this Priority Area however a rectilinear enclosure east of Great Stonage Farm is located in the western half of neighbouring Priority Area 2587 (see above).	anomalies identified by the survey record field drains and ploughing trends.
571775, 214195 EHCR 47685, MEX1040666 8.7ha	·		
2001a 566102, 207305 13.7ha	EHCR 14059, MEX1031266	Area of medium value heritage asset.  Cropmarks of ring ditches and linear features are recorded partially within the Order Limits northwest of Sturgeon's Farm.	A series of faint linear ditch-like anomalies possibly forming an enclosure are recorded towards the centre of the parcel at NGR 566000, 207270. Three further ditch-like anomalies are recorded in the southernmost parcel that are also considered of possible archaeological origin. A cluster of discrete magnetically enhanced anomalies east of these ditch-like features are also identified but remain of uncertain origin but are considered likely to have an anthropogenic cause based on their magnetic signature. These anomalies are recorded withing an area of cropmarks of linear features and ring ditches in the HER (MEX1031266).
			Two buried services are traced heading north from the southern

			part of the parcel. The effect of the pipe means no meaningful data is recorded from these narrow corridor sections. A third service crosses one of the central fields within this parcel aligned north-east/south-west. The remainder of the anomalies are considered agricultural and/or natural in origin identifying former boundaries and ploughing trends.
12056			
566520, 197725	EHCR 18235, MEX1031191	Area of medium value heritage asset.	No survey undertaken in this parcel.
0.41ha		Cropmarks of post- medieval to modern linear features also a bomb crater at TQ 6623,9754.	
12057			
566430, 197530	EHCR 18235, MEX1031191	Area of medium value heritage asset.	The survey findings are limited to linear trends recording a pattern of field drains and former field
7ha		Cropmarks of post- medieval to modern linear features also a bomb crater at TQ 6623,9754.	boundaries. A large buried service pipe aligned roughly east/west crosses the parcel. No anomalies that could be associated with nearby heritage assets of cropmarks are identified.

## Section G

Location (NGR), size (hectares)	Heritage Asset Identifiers	Description	Geophysical Survey Comments
1521 565440, 189493 1.36ha		No heritage assets are recorded within this parcel.	No anomalies of clear archaeological potential are identified in this parcel.
12058, 12058a, 12058b 566107, 197598 3.66ha	EHCR 18235, MEX1031191	Area of medium value heritage asset.  Cropmarks of post-medieval to modern linear features also a bomb crater at TQ 6623,9754.	The narrow sections of these parcels trace the route of a buried service south of the River Wid. The magnetic disturbance from the pipe effectively obscures all meaningful data from across the parcels. Anomalies across the larger parcels are restricted to agricultural trends identifying field boundaries and ploughing trends. The magnetic

			background is homogenous across the parcel.
10932, 10932a, 10932b	EHCR 18235,	Area of medium value heritage asset.	These narrow sections trace the route of a buried service adjacent Mountnessing Road. The magnetic disturbance from
565971, 197132 1.75	MEX1031191	Cropmarks of post-medieval to modern linear features also a bomb crater at TQ 6623,9754.	the pipe effectively obscures all meaningful data across from the parcels.
12041, 12044, 12048, 12047, 12051, 12052, 12053, 10937, 10937a	EHCR 18235, MEX1031191	Area of medium value heritage asset.  Cropmarks of post-medieval to modern linear features also a bomb crater at TQ 6623,9754.	No survey undertaken in these small parcels.
1546 565275, 190214 3.83ha	EHCR 49863, MEX1050480	Additional priority area for compounds.  No heritage assets are recorded within this parcel immediately south of the River Crouch however a trial-trench evaluation in advance of the construction of a solar farm uncovered evidence of Romano-British activity immediately to the north and west on the opposite side of the river.	Two separate discrete low magnitude responses of uncertain origin are recorded close to the River Crouch.  These are considered most likely natural in origin representing silted deposits close to the river. No anomalies consistent with Romano-British activity identified to the north of the river are recorded.

## Section H

Location (NGR), size (hectares)	Heritage Asset Identifiers	Description	Geophysical Survey Comments
1487 565757, 187454 9ha		Proposed area of compound.  No heritage assets are recorded within or close to this parcel off of Lower Dunton Road.	Anomalies identified by the survey across this parcel are entirely limited to natural variations and arising from modern agricultural ploughing.
1202 567029, 182241 10.4ha	EHCR 5264, MEX18168 EHCR 1834, MEX6641	Area of medium/high value heritage asset.  Cropmarks of two joined enclosures, trackway and ring ditch and the findspot of an Iron Age Belgic pedestal bowl are located within the Priority Area.	The survey findings are restricted to linear trends recording former field boundaries and from modern ploughing. The magnetic background is relatively homogenous and no anomalies which might relate to nearby heritage assets are identified.

593 566196, 180051 11.65ha	EHCR 46889, MEX1039719 EHCR 5226, MEX18031	Area of underground cable.  The entire Priority Area contains a record of a geophysical survey which identified a rectilinear enclosure, ring-ditch and linear features.  Cropmarks of a small rectangular enclosure are recorded outside the Priority Area to the northwest though archaeological monitoring of a single house in northwest	A small number of low magnitude linear ditch-like anomalies are recorded at the south-west corner of the parcel and are consistent with records of cropmarks of enclosures and linear features recorded in the HER (MEX103979).  The remaining linear and sinuous trend anomalies are considered to be a result of modern ploughing and natural background variation respectively.  Traces of previous trial trenches are also
597 566321, 180218 7.23ha	EHCR 46889, MEX1039719	Area of underground cable compounds, underground cable and cable sealing end compounds.  The southern half of this Priority Area contains a record of a geophysical survey which identified a rectilinear enclosure, ring-ditch and linear features.	No anomalies considered of possible or probable archaeological origin are identified. The survey findings are limited to linear and sinuous trends arising from modern ploughing and natural background variation respectively. Evidence of trial trenches is recorded as a series of low magnitude negative anomalies in the separate southernmost parcel.
602 566814, 180513 1.30ha	EHCR 1898, MEX6914	Area of medium value heritage asset.  Linear and other features of unknown date are recorded in fields north and south of Collingwood Farm. Prehistoric artefacts are recorded from an area c. 70m to the east outside the Priority Area but within the Order Limits.	No survey undertaken in this parcel.
607, 611, 612, 613, 614, 620 1.88ha	EHCR 1898, MEX6914	Area of medium value heritage asset.  Linear and other features of unknown date are recorded in fields north and south of Collingwood Farm.	No survey undertaken in these small parcels.
615 566860, 180795 14.7ha	EHCR 1898, MEX6914	Area of medium value heritage asset.  Linear and other features of unknown date are recorded in fields north and south of Collingwood Farm.	No anomalies considered of possible or probable archaeological origin are identified. A former pond is recorded towards the centre of the parcel as a patch of magnetic disturbance arising from the material used to infill the feature. The remaining trend anomalies record a former boundary and natural background variation. A buried service follows the eastern and southern boundary of the parcel.

			at the southern boundary and north-east corner of the field.
583 and 557 566072, 179855 13.3ha	EHCR 46889, MEX1039719 EHCR 1752, MEX6325 EHCR 1769, MEX6420	Area of underground cable. UGC access route, UGC, ZB-CC02 and SB-SC03 substation and compound pylon location, access route, SUDs  The entire Priority Area contains a record of a geophysical survey which identified a rectilinear enclosure, ring-ditch and linear features.  Enclosures of unknown date are located immediately southwest of this Priority Area.	A few low magnitude linear anomalies recorded in the east of parcel 557. While not correlating with the cropmarks identified here, they are within proximity and ascribed as of uncertain origin. A large area of more disturbed ground is recorded in the centre of the parcels, clearly limited to a single field. This is thought to be caused by a spread of green-waste, used as a soil improver. Within the same field, several higher magnitude anomalies are identified, with one matching to location of a circular feature in the cropmark data. With no defining features other than an elevated magnitude, these are deemed uncertain in origin.
		Cropmarks of ring ditch, pits, linear features recorded to the southwest but HER area extends into Priority Area.	Former field boundaries, several matching the cropmark data, are recorded, as well as linear trends as a result of modern ploughing, and two service pipes in the east of parcel 557.
468 566277, 179536 8.5ha	EHCR 1768, MEX6418 EHCR 18616, MEX1032235 EHCR 1767, MEX6411 EHCR 46889, MEX1039719	Area of underground cable and medium value heritage asset.  Cropmarks of a rectangular enclosure and trackway and Prehistoric findspots including a Neolithic axe are located within the Priority Area.  The entire Priority Area contains a record of a geophysical survey which identified a rectilinear enclosure, ring-ditch and linear features.	A number of low magnitude linear anomalies identified in the south and west of this parcel, corresponding with the cropmarks recorded here (MEX6237Essex). These are discontinuous in appearance, and as such are considered of possible archaeological origin. Several parallel, low magnitude linear anomalies in the north of this parcel are of uncertain origin. Five further linear anomalies record the location of former field boundaries, while further agricultural trends reflect modern agricultural ploughing. Two ephemeral anomalies, recorded along the former boundary in the north, likely locate areas of extraction. Magnetic disturbance caused by electricity pylon bases is seen throughout this parcel, with some interference from the powerlines when walking beneath them.
521		Area of underground cable.  The entire Priority Area contains a	No survey undertaken in this parcel.
0.34ha and 0.06ha	EHCR 46889, MEX1039719	record of a geophysical survey which identified a rectilinear enclosure, ring-ditch and linear features.	

450		Area of underground cable compounds and underground cable.	No survey undertaken in this parcel.
450 566613, 179054	EHCR 46889,	The entire Priority Area contains a	
11.6ha	MEX1039719	record of a geophysical survey which identified a rectilinear enclosure, ring-ditch and linear features.	
125 566529, 178150 17.52ha	EHCR 46889, MEX1039719 EHCR 1821, MEX6607 EHCR 1766, MEX6409	Area of underground cable and medium value heritage asset.  The northern part of the Priority Area contains a record of a geophysical survey which identified a rectilinear enclosure, ring-ditch and linear features.  Cropmarks of field boundaries and possible pits of an unknown date are recorded across central and southern parts of the Priority Area.  Cropmarks of linear and rectilinear features, possible trackway and ring ditches are recorded at the southwest corner of the Priority area extending north beyond the Order Limits to West Tilbury.	Many low magnitude linear anomalies are identified, largely in the centre and south of this parcel, corresponding to cropmark data (MEX6607Essex). A magnetically enhanced rectilinear anomaly with internal discrete feature is recorded in the centre of the parcel. All of these are deemed of possible archaeological origin. A service pipe is aligned east/west through the centre of the parcel, and magnetic disturbance is recorded around the pylon bases that were not surveyed. Agricultural anomalies, such as former field boundaries and trends denoting modern ploughing regimes, are present. Several amorphous anomalies, likely representing mineral extraction, are identified in the north-west of the parcel.
63	EHCR 14559, MEX39674	Area of underground cable.  Priority Area is largely devoid of heritage assets except for a spread	No survey undertaken in this parcel.
566247, 177631	EHCR 10289, MEX31814	of anti-glider ditches recorded in the southern part of the parcel but	
2.9ha	EHCR 1675, MEX6037	which extend to all other parcels to the south and a possible coffin and associated church wall at the very northwest corner of the parcel.	
30, 31, 33		Area of underground cable.	No survey undertaken in these parcels.
566131, 177478	EHCR 14559, MEX39674	This cluster of small parcels north of Coopers Shaw Road are in an	
2ha total	MEXOSOTT	area recorded as containing anti glider ditches.	
21		Area of underground cable.	No survey undertaken in this parcel.
566214, 177310	EHCR 14559, MEX39674	These two parcels south of Coopers Shaw Road are in an area	
2.3ha total	IVILAJ 2074	recorded as containing anti glider ditches.	
17, 12257, 12258	EHCR 14559, MEX39674	Area of underground cable.	No survey undertaken in these parcels.

565902, 177212		This parcel south of Coopers Shaw	
6.88ha		Road is in an area recorded as containing anti glider ditches.	
25, 28		Area of underground cable.	No survey undertaken in these parcels.
566540, 177402	EHCR 14559, MEX39674	This parcel east of Coopers Shaw Road is in an area recorded as	
4.87ha		containing anti glider ditches.	
12	FUCD 14FF0	Area of underground cable and underground cable compounds.	No survey undertaken in this parcel.
566639, 176617	EHCR 14559, MEX39674	This parcel southeast of the railway	
42.8ha		is in an area recorded as containing anti glider ditches.	

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