



**Phase I Environmental Assessment**

**Proposed Site for Gasification Plant, Shelton  
Road, Willowbrook East Industrial Estate, Corby  
NN17 5XH**

**Clean Power Properties Ltd**

**Delta-Simons Project No. 15-0645.01**

**Issued: July 2015**

**PHASE I ENVIRONMENTAL ASSESSMENT**  
**PROPOSED SITE FOR GASIFICATION PLANT, SHELTON ROAD,**  
**WILLOWBROOK EAST INDUSTRIAL ESTATE, CORBY NN17 5XH**

**DELTA-SIMONS PROJECT NUMBER: 15-0645.01**

**EXECUTIVE SUMMARY**

<p><b>Current Site &amp; Surrounding Area</b></p>	<p>The Site is located to the west of Shelton Road in the Willowbrook East Industrial Estate, 3 km north-east of Corby town centre, with an area of approximately 2.53 Ha. The Site comprises a flat area covered by roadways and gravel surfaced parking bays, used for open storage of cars. A landscaped strip runs along the northern and eastern edges of the Site.</p> <p>The Site is proposed to be developed as a waste gasification plant, comprising a large industrial building containing process plant, a number of external fire water tanks, a surface water flow balancing pond, hard surfaced roadways, parking and vehicle delivery areas and landscaping, and is considered to be a low sensitivity development with a commercial end-use.</p> <p>The Site is part of a wider area used for storage of cars, extending to the west and south, and industrial/commercial buildings associated with the Willowbrook East Industrial Estate, to the south. Further south, beyond Steel Road, are facilities owned by Tata Steel and associated with the former Corby Steelworks.</p>
<p><b>Environmental Setting</b></p>	<p>The Site is reportedly underlain by a significant thickness of Made Ground, comprising granular cover material overlying around 8m of reworked glacial till, overlying a further 2m to 9m of steelworks/lagoon waste fill. This overlies further Made Ground over remnants of the previously worked bedrock of the Northamptonshire Sand Ironstone, classified as a Secondary A Aquifer. Groundwater has been observed at between 8 m and 20 m below ground level (bgl) in the bedrock or Made Ground.</p> <p>The Site is not located within a groundwater Source Protection Zone (SPZ) and there are no groundwater abstraction records within 2 km. of the Site.</p> <p>The nearest surface water feature is the channelized Willow Brook North Arm, located approximately 8 m to the north of the Site. The nearest surface water abstraction record is 1,865m south of the Site, for cooling purposes, now revoked.</p> <p>The environmental sensitivity of the Site setting is considered to be low to moderate given: the proximity of the Willow Brook North Arm watercourse to the northern Site boundary, the significant thickness of low permeability reworked glacial till, the designation of the bedrock as a Secondary A aquifer, and the lack of proximate ground and surface water abstractions.</p>
<p><b>Historical Land Use</b></p>	<p>Historically the Site has been associated with opencast ironstone mining and backfilling with steelworks wastes and reworked overburden materials, prior to surface remediation works carried out in 2001-2002 for construction of the current vehicle storage area.</p>
<p><b>Conceptual Site Model</b></p>	<p>Delta-Simons has completed a source-pathway-receptor risk assessment for the proposed development based upon available information. The potential for significant contamination to be present at the Site likely to require remediation for a proposed</p>

	<p>industrial end use is considered to be limited given the results of previous investigations carried out on the Site. However there is an identified issue with ground gas and the thickness of uncompacted Made Ground will likely give rise to a requirement for piled foundations, with the potential to introduce further pollutant linkages.</p> <p>Therefore, the potential risks to human health and controlled waters from potential soil and groundwater contamination are generally low, but moderate in the cases of ground gas and sulphate attack on concrete, and low to moderate in the cases of contact with groundworkers and water supply pipes.</p>
<b>Geotechnical and Structural Constraints</b>	<p>There is a significant thickness of Made Ground (up to 19m proved) comprising reworked glacial till overlying steelworks/lagoon waste, which presents a number of potential geotechnical and structural issues that include expansivity of slag, settlement, slope stability and ground aggressive to concrete. The likely need for piling for building foundations has the potential to introduce further pollutant linkages and/or to generate waste arisings at the surface that could potentially be classified as hazardous.</p>
<b>Summary Recommendations</b>	<p>Planning conditions for the proposed development of an energy facility require that a preliminary risk assessment, Site investigation, risk assessment, remedial options appraisal, remediation strategy and verification plan, should be approved by the waste planning authority, prior to commencement of redevelopment and that a verification report confirming any remediation required has been completed in accordance with the above, should be submitted and approved prior to occupation of the development.</p> <p>Further planning conditions exclude infiltration of surface water into the ground and state that piling or other foundation designs using penetrative methods shall not be used unless it is demonstrated that no adverse risk to groundwater results.</p> <p>Ground investigation will need to be undertaken to provide greater certainty on the risks associated with land contamination and ground conditions in order to determine potential abnormal development costs.</p> <p>Geotechnical and foundation designs for the proposed facility will need to be scoped to take account of the issues identified above. Particular attention is drawn to the need for the proposed layout to ensure the stability of the slope to the north of the Site, for piling proposals to take account of the potential creation of pollutant linkages and waste arisings, and to demonstrate that these have been addressed through a Foundation Works Risk Assessment.</p>
<b>Overall Statement of Risk</b>	<p>On the basis of available information, Delta-Simons considers that with regard to potential soil and groundwater contamination, ground gas and associated environmental, geotechnical and structural liabilities, for its proposed commercial use, the Site represents an investment opportunity with a <b>Moderate</b> overall risk status, however, this could be mitigated through appropriate allowances to address the identified geotechnical and environmental constraints.</p>
<p><b><i>This executive summary forms part of Delta-Simons Phase I Environmental Site Assessment (ref: 15-0645.01). It should not be used as an independent document.</i></b></p>	

# TABLE OF CONTENTS

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1.0 INTRODUCTION .....	1
1.1 Authorisation .....	1
1.2 Context & Purpose .....	1
1.3 Information & Scope of Works .....	2
1.4 Limitations .....	3
2.0 REVIEW OF SITE SETTING, HISTORY & REGULATORY INFORMATION .....	4
3.0 REVIEW OF THIRD PARTY REPORTS .....	12
4.0 CONCEPTUAL SITE MODEL .....	15
4.1 Introduction .....	15
4.2 CSM Summary and Risk Assessment .....	15
5.0 GEOTECHNICAL AND STRUCTURAL CONSTRAINTS .....	19
5.1 Geotechnical Constraints .....	19
5.2 Structural Constraints .....	20
6.0 CONCLUSIONS AND RECOMMENDATIONS .....	22
6.1 Summary, Conclusions and Recommendations .....	22
6.2 Risk Statements .....	23
7.0 LIMITATIONS TO ENVIRONMENTAL ASSESSMENTS .....	25

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## Tables

Table 1	Scope of Works
Table 2	Conceptual Site Model
Table 3	Liability Assessment

## Figures

Figure 1	Site Location Map
Figure 2	Site Layout Plan

## Appendices

Appendix I	Landmark Envirocheck® Report
Appendix II	Historical Maps
Appendix III	Local Authority Information (Outstanding)
Appendix IV	Risk Definitions

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**CLEAN POWER PROPERTIES LTD**  
**DELTA-SIMONS PROJECT NUMBER: 15-0645.01**

**1.0 INTRODUCTION**

**1.1 Authorisation**

Delta-Simons Environmental Consultants ('Delta-Simons') was instructed by Clean Power Properties Limited (the 'Client'), to undertake a Phase I Environmental Assessment of a proposed site being considered for acquisition for redevelopment as a waste gasification plant at Shelton Road, Willowbrook East Industrial Estate, Corby NN17 5XH (hereafter referred to as the 'Site').

**1.2 Context & Purpose**

The purpose of the Report is to provide an assessment of the potential contamination status of the soil and groundwater beneath the Site and to provide initial commentary on geotechnical constraints. The Assessment is being completed as part of due diligence for the proposed purchase of the Site.

The Site has previously been subject to a planning application for redevelopment of the Site as an Advanced Conversion Technology (ACT) and Anaerobic Digestion (AD) facility comprising an 8-12 MWe pyrolysis plant and a 2-3 MWe digestion facility, together with ancillary and support facilities. It is understood the Client is considering an alternative gasification facility for the Site.

The principal aims of a Phase I Environmental Assessment, as stated in British Standard BS10175:2011, are to obtain information in order to:

- △ Evaluate the environmental setting of the Site and to identify sensitive receptors;
- △ Provide information from which possible Contaminant-Pathway-Receptor relationships can be identified; and
- △ Formulate a Conceptual Site Model (CSM) to consider the significance of the Contaminant-Pathway-Receptor relationships and identify whether further investigation is required.

This Report adheres to these principal aims and has been undertaken in accordance with current relevant guidance and best practice as set out within Contaminated Land Report (CLR) 11.

In addition, recommendations for intrusive Site investigation and risk assessment necessary to satisfy planning consent conditions and to allow assessment of abnormal geotechnical conditions are presented.

### **1.3 Information & Scope of Works**

In completing this Assessment, Delta-Simons has utilised and reviewed the following information:

- △ Current and Historical Ordnance Survey (OS) maps;
- △ British Geological Survey (BGS) data;
- △ Environment Agency (EA) data;
- △ English Heritage online data;
- △ A Landmark Envirocheck Report® for the Site, dated June 2015 (Appendix I);
- △ Information provided by the Client including copies of previous reports on the Site by Frank Graham Consulting Engineers and Babbie Group;
- △ Corby Borough Council information; and
- △ Information from a Web search, concerning ironstone mining.

Based on the information above, the scope of works performed by Delta-Simons for this Phase I Desk Study Environmental Assessment Report is presented in Table 1:

**Table 1: Scope of Works**

<b>Data Collection</b>	<ol style="list-style-type: none"> <li>1. Review the environmental setting of the Site, including:                             <ul style="list-style-type: none"> <li>– Review of current use/status of Site and adjacent areas; and</li> <li>– Review of the geology, hydrogeology, hydrology and environmental sensitivity of the Site.</li> </ul> </li> <li>2. Review the history of the Site using historical OS maps and third party information provided by the Client or obtained from the local authority planning databases or from a web search.</li> <li>3. Review regulatory information relating to the Site as detailed within an updated Landmark Envirocheck® Report.</li> <li>4. Consult the Local Authority's (LA) Environmental Health Department and other parties that may hold information on the pre-remediation topography and conditions.</li> <li>5. Review planning history on the Borough and County Council's public access planning database.</li> <li>6. Undertake a walkover survey of the Site including a visual inspection of the Site from accessible areas and a visual assessment of the adjacent slope to the north.</li> </ol>
<b>Interpretation &amp; Reporting</b>	<ol style="list-style-type: none"> <li>7. Formulate an initial CSM by identifying potential contamination sources, pathways and receptors, in the context of the current use of the Site.</li> </ol>

	<ol style="list-style-type: none"><li>8. Undertake a qualitative risk assessment.</li><li>9. Identify and provide commentary on geotechnical and structural constraints in the context of the proposed future Site use.</li><li>10. Present a proposed scope of works for Phase II site investigation.</li><li>11. Provide liability and asset impact risk statements.</li><li>12. Prepare final Report.</li></ol>
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#### **1.4 Limitations**

This Report provides an assessment of the potential contamination status of the ground below the Site based upon the available information. It provides only limited geotechnical assessment/interpretation of the ground conditions in the context of scoping further intrusive investigations and, as such, any comments relating to such matters are for information only.

This Assessment has been produced in general accordance with the principles of BS10175:2011 in relation to a Preliminary Investigation. Although reference may be made to archaeological and ecological issues, or the potential presence of asbestos containing materials (ACM), this Report does not constitute an archaeological or ecological assessment, nor does it constitute an asbestos inspection.

Delta-Simons obtained, reviewed and evaluated information in preparing this Report from the Client, Landmark Information Group and others. Delta-Simons conclusions, opinions and recommendations are based upon this information. Delta-Simons does not warrant the accuracy of the information provided to it and will not be responsible for any opinions which Delta-Simons has expressed, or conclusions which it has reached in reliance upon information which is subsequently proven to be inaccurate.

Due to the limited time allowed in the production of this Report, enquiries with the Local Authority remain outstanding.

## **2.0 REVIEW OF SITE SETTING, HISTORY & REGULATORY INFORMATION**

### **Current Site**

The Site is located to the west of Shelton Road, which is accessed from the A6116 Steel Road, in the Willowbrook East Industrial Estate, around 3 km north-east of Corby town centre, with an area of approximately 2.53Ha. The Site is approximately centred at National Grid Reference (NGR) 490910, 290860. A Site location map is provided as Figure 1.

Based on information provided by the Client and a review of available online aerial photography, the Site comprises a flat rectangular area, aligned west-east, with no buildings, used for open storage of cars. The Site is covered by a network of bituminous surfaced roadways alongside which are gravel surfaced parking bays. A landscaped strip runs along the northern and eastern edges of the Site.

It is understood that the Site is the location for a proposed development of a waste gasification facility.



**Google Earth Image of Site (2009)**

A Site walkover was undertaken on 3rd July 2015. The Site was accessed from the Paragon Automotive Storage Facility entrance via Baird Road. The Site was observed to comprise open land and was in use for vehicle storage at the time of the visit. The Site slopes gently from north to south with surfacing of a network of hardstanding roads with areas of vehicle parking formed by crushed stone gravel (likely to be Highways Agency specification "Type 1" sub-base type material) which was slightly overgrown with grasses in some areas. The only potentially contaminative activity on-Site is the storage of relatively new vehicles. Site management confirmed that there was no fuel storage on the Site.

At the northern boundary of the Site, ground level was observed to drop at a steep angle towards the Site fence, beyond which (off-Site) a heavily vegetated bank was present running down to the Willow Brook. The vegetation was too dense to allow visual appraisal of the angle and condition of the slope.

The eastern boundary of the Site was formed by a landscape buffer area with a substantial fence beyond which is Shelton Road. The current access along this boundary is not used and is secured with a disused mini-truck and numerous disused oil drums behind the gates. It is understood these drums are empty.



	<p>To the south-east of the Site (off-Site), a new warehouse was in the process of being constructed with access via Shelton Road. The remainder of the southern and western boundaries of the Site are formed by further vehicle storage areas.</p> <p>Along the northern boundary of the Site it was possible to identify a channel of gravel at surface running parallel to the northern surface road length, assumed to be the gas vent trench installed during the 2000-2002 remediation works.</p> <p>It was not possible to access the Willow Brook via Shelton Road due to the road being securely fenced and gated just beyond the entrance to the Site.</p> <p>A Site layout plan is provided as Figure 2.</p>
<p><b>Surrounding Area</b></p>	<p>The Site is part of a wider area used for parking cars, extending to the west and south. To the north is a steep slope down to a stream, beyond which is an undeveloped, partially wooded area, a new road and the Rockingham Speedway motor racing circuit and associated car parking. To the east is an undeveloped area and to the south-west and south are industrial/commercial buildings associated with the Willowbrook East Industrial Estate. Further south, beyond Steel Road, are facilities owned by Tata Steel and associated with the former Corby Steelworks.</p>
<p><b>Geology</b></p>	<p>From BGS online data, the Site is underlain by bedrock comprising the Jurassic Northampton Sand Formation Ironstone. Superficial deposits are not present. It is apparent from the context of the surrounding area that most of the ironstone, and the overlying superficial deposits and bedrock were excavated during past opencast mining of the ironstone. Underlying the ironstone are mudstones of the Whitby Mudstone Formation of the Lias group. Information supplied by reports available to the Client indicates that BGS paper mapping identifies the Site as being located on infilled ironstone workings.</p> <p>Four BGS borehole records are located within the boundary of the Site (ref: SP99SW1338 (1981), SP99SW1263 (1981), SP99SW1264 (1981), SP99SW1181 (1983)). The boreholes were excavated on behalf of the Commission for New Towns and post-date the opencast ironstone mining. The records can be summarised as follows:</p> <ul style="list-style-type: none"> <li>△ Made Ground to depths of between 16.0 m and 19.1 m bgl (base proved in 2 boreholes) comprising fill, mainly comprising silty clay with some sand and gravel, but also including layers/lenses of sandstone gravel, steelworks waste, ash/brick/foundry waste/boulders and soft silty clay with ammoniacal odour; overlying</li> <li>△ Ferruginous sandstone and sandy clay and sideritic siltstone/sandstone to 22.1 m bgl, identified as Northamptonshire Sandstone Ironstone; overlying</li> <li>△ Silty clay, identified as Upper Lias (assumed to refer to the Whitby Mudstone Formation), proved to a maximum borehole depth of 27 m bgl.</li> </ul> <p>Borehole logs presented in the 1996 Frank Graham report provide further detail of the Made Ground composition. Two main types of material are present:</p> <ul style="list-style-type: none"> <li>△ Reworked glacial till, typically described as firm to stiff grey or brown slightly silty clay with some chalk and sandstone gravel. This is typically present between near surface to between 7.5m and 8m bgl (deeper where steelwork waste not present);</li> <li>△ Steelworks waste from the former sludge lagoons, typically</li> </ul>

	<p>described as soft, black, slightly sandy silt, present in the majority of boreholes to between the base of the reworked glacial till and between 10m and 17m bgl.</p> <p>Below the base of the steelworks fill the boreholes encountered either sand, sometimes containing ironstone nodules, or sandstone. This was identified as possible Made Ground, and could either represent reworked discards from the opencast mining, which could be of significant thickness, or weathered Northamptonshire Sandstone Ironstone.</p> <p>The Envirocheck<sup>®</sup> Report indicates the potential for ground stability hazards (from landslide, ground dissolution or other causes) in the area of the Site ranges from no hazard to very low. The potential for compressible ground stability hazards is indicated to be very low to moderate, the latter assumed to reflect the presence of deep opencast backfill.</p> <p>BGS Estimated Soil Chemistry data within the Envirocheck<sup>®</sup> Report estimates that average urban concentrations of heavy metals are low in the area of the Site in comparison to current commercial guidance values.</p>
<b>Hydrogeology</b>	<p>According to the Envirocheck<sup>®</sup> Report the EA classify the Northamptonshire Sand as a <i>Secondary A Aquifer</i>. The underlying Whitby Mudstone Formation is <i>Unproductive Strata</i>. The Site is not located within a groundwater Source Protection Zone (SPZ). There are no groundwater abstractions recorded within 2 km of the Site.</p> <p>Groundwater was historically observed at depths of approximately 15 m bgl to 19m bgl (i.e. in the base of the fill), with occasional occurrences of perched water higher in the fill, in the BGS boreholes referred to above. These observations are consistent with those of the 1996 Frank Graham investigation.</p>
<b>Surface Water</b>	<p>The nearest surface water feature is a channelized stream, located approximately 8 m to the north of the Site, recorded as River Quality F adjacent to the Site, referred to in the Envirocheck<sup>®</sup> Report record as the North Stream and more generally as the Willow Brook North Arm.</p> <p>The only surface water abstraction record in the Envirocheck<sup>®</sup> Report within 2 km of the Site refers to a revoked abstraction from the Willow Brook, 1,865m south of the Site, by British Steel Corporation Ltd, for cooling purposes.</p> <p>One Substantiated Pollution Incident Register record, dated March 2012, is recorded 90 m south-east of the Site in the Envirocheck<sup>®</sup> Report, identified as a Category 2 significant incident for water impact, a Category 3 minor incident to air and a category 4 no impact event for land impact, involving organic chemicals – adhesives/sealants.</p> <p>Three discharge consents are recorded within 500m of the Site, all relating to discharge of trade effluent by British Steel or Corus Tubes to the Willow Brook, and all revoked in March 1992, the nearest located 68 m west of the Site.</p>
<b>Flood Risk</b>	<p>According to EA data, the Site is situated in an area at very low risk from flooding from rivers and sea, reservoirs or surface water (an annual chance of flooding of less than 1 in 1000 (0.1%)).</p> <p>However the roadway forming the southern boundary of the Site, and Shelton Road to the east, are mapped by the EA as at high risk (annual probability greater than 1 in 30 (3.33%)) of surface water (pluvial)</p>

	<p>flooding, to a depth of less than 300 mm, but at velocity greater than 0.25 m/s.</p> <p>Delta-Simons has not reviewed the surface water design of the proposed development, however it is noted that the layout of the proposed gasification plant supplied by the Client includes a 1,000 m<sup>2</sup> surface area drainage pond, assumed to be a SuDS feature, and a report supplied by the Client makes reference to a Flood Risk Assessment (FRA) for the proposed development that reportedly identified reduced surface water runoff following the development.</p>
<b>Coal Mining Risk</b>	The Envirocheck <sup>®</sup> Report indicates the Site is not in an area associated with Coal Mining legacy.
<b>Radon</b>	The BGS, National Geoscience Information Service reports that the property is in an area where less than 1% of homes in the area are above the action level for radon and no associated protection measures are required for new buildings.
<b>Sensitive Areas</b>	The Site is reported to be situated within a nitrate vulnerable zone. No other sensitive areas are located within 1 km of the Site.
<b>Heritage</b>	According to the English Heritage website, there are no Listed Buildings or Scheduled Ancient Monuments identified in the vicinity of the Site
<b>Environmental Sensitivity</b>	Based on the above, the environmental sensitivity of the Site's setting is considered to be low to moderate.
<b>Historical Information</b>	<p>Historical maps of the Site, obtained from Landmark as part of the Envirocheck<sup>®</sup> Report, together with supporting information from a web search, have been reviewed and are included as Appendix II. A summary of the key information is provided below:</p>
<b>Site</b>	<p>On the earliest map edition of 1886 and the subsequent 1900 edition, the Site is undeveloped and comprises parts of four fields. A stream runs from west to east within the northern part of the Site.</p> <p>On the 1938 edition the Site is shown totally blank and the stream has been channelized to run outside and roughly parallel to the Site's northern boundary. Although not specifically stated it is apparent from the context of the surrounding area that opencast ironstone mining was taking place on the Site and in the surrounding area at this time.</p> <p>Contemporary records including historical newsreel clips on YouTube show that opencast mining of ironstone was carried out by first removing overburden along a working face using a large walking dragline, excavating the full depth of overburden above a strip of ironstone and back-casting it into worked out areas to the rear. The ironstone was then blasted and excavated by tracked face shovel and loaded into wagons on a temporary rail system.</p> <p>By 1952 a contemporary aerial photograph (from britainfromabove.org, not reproduced due to copyright) and OS mapping confirm that opencast mining has been completed on the Site and the majority of the Site appears to be covered by a water body (identified in the 1996 Frank Graham report (reviewed below) as sludge lagoons associated with Corby Steelworks), with the south west corner occupied by an embanked area of ground, presumably comprising backfill in progress. The 1958 mapping shows no change.</p> <p>By 1964 the whole Site is shown as part of an embanked area, with steep slopes outside the northern boundary sloping towards the stream. It remains undeveloped except for two very small buildings and a short length of roadway in the south-west corner of the Site. Apart from an additional small building in the south-west corner, the 1973 mapping</p>

<p><b>Surrounding Area</b></p>	<p>shows no changes. By 1987 the buildings and roadway in the south-west corner have been removed.</p> <p>Mapping dated 1993, 1994 and 1996 show the Site area as a blank, however significant redevelopment and restoration of the Site and the wider area was undertaken in the period from mid 1980s until the early 2000s, following the closure of the steelworks. The Site was subject to a programme of restoration/remediation for an open storage end use through filling and levelling, with the works completed by Weston Landfill Ltd with monitoring works undertaken by Babbie in 2000-2002. The works focussed on levelling the Site and the placement of limited drainage and an inert cap.</p> <p>Mapping dated 2006 and 2015 shows the Site to be bounded by tracks or roadways, considered to represent the current configuration.</p> <p>Key potential off-Site sources of contamination identified in the surrounding area (within 100 m) on historical maps have included:</p> <ul style="list-style-type: none"> <li>△ Haul roads, 50m north and 90m north-west of the Site, on the 1938, 1952 and 1958 plans, assumed to be associated with opencast ironstone mining;</li> <li>△ Embankment slopes, abutting the northern boundary of the Site, from circa 1964 to 1987, assumed to be associated with backfilling of the Site;</li> <li>△ An artificial lagoon or pond, 50m north-west of the Site, from circa 1964 to the present;</li> <li>△ A mineral railway and sidings and embankment/cutting slopes, abutting the Site to the east, and a separate line 80m north-east, from circa 1964 to 1973, dismantled by 1983, later the route of Shelton Road;</li> <li>△ An area of orthogonal roadways, enclosures, small buildings, tanks open areas and a siding, possibly an open storage area for steelworks products, abutting the Site to the west and south-west, from circa 1964 to 1973, partially cleared by 1985 and removed entirely by 1988;</li> <li>△ A small area of hardstanding surrounded by a drain in a “moat” configuration, 50m south of the Site, from circa 1973 until 1996, removed by 2006. This was identified in the 1996 Frank Graham report as a storage area for naphthalene originating from the adjacent Dene coke works.</li> <li>△ A group of industrial buildings described as Willowbrook East Industrial Estate, comprising Harlow House (70m south-east of the Site), Bracknell, Basildon and Aycliffe House (105 m south) and Crawley House (170m south-east), from 1987 to the present.</li> </ul> <p>Further south, large industrial buildings and ancillary railway sidings and roadways associated with the Corby Iron and Steelworks and associated Dene coking plant are mapped, 500m south of the Site at their nearest point, from 1938 to the present, and a number of earthworks or waste disposal features likely to represent placement of backfill or steelworks slag, are mapped in the area surrounding the Site.</p>
<p><b>Envirocheck<sup>®</sup> Report</b></p>	<p>The Envirocheck<sup>®</sup> Report contains two records referring to the Site itself. The first comprises an Integrated Pollution Prevention and Control (IPPC) record, identified as a valid application, by Clean Power UK Ltd, for disposal of non-hazardous waste involving biological treatment, and incineration of hazardous waste, at a facility identified as Corby Energy Recovery Centre. The record appears to relate to the currently proposed gasification facility, although it is understood that the most recent proposals do not involve hazardous wastes or incineration.</p>

The second record refers to a licensed waste management facility record for North Brook landfill site, however the actual location of landfilling was on the north bank of the Willow Brook North Arm, i.e. not on the Site, and this is discussed as an off-Site feature below.

Pertinent listed off-Site features include:

Landfills

One BGS recorded landfill site record, three historical landfill site records, two licensed waste management facilities, four registered landfill site records and one registered waste treatment or disposal sites are recorded within a 500m buffer. Some of these records are duplicates and there are inconsistencies in positioning, however the records can be aggregated as follows:

- △ A BGS recorded landfill site and a historical landfill site record refer to a British Steel Corporation landfill at Gretton Brook Road, Deene, 20m north-west of the Site at its nearest point, that accepted inert and industrial waste between 1950 and 1986. The record referred to above for North Brook landfill site, operated by Tata Steel UK and identified as a closed industrial waste landfill, and a registered landfill site record referring to a landfill operated by Corus UK Ltd, 268m west of the Site, refers to a contiguous area (Corus and Tata are successors to British Steel). The area of landfilling extended over 1 km to the north and north-west of the Site and included further records referring to refractory materials, inert, industrial and special wastes, and liquid sludges. It is likely that a major component of the filled material comprises slag from iron and steel making.
- △ Six historical landfill sites records refer to the Candy Filter Sludge Ponds, 56m north-west of the Site at its nearest points, operated by BSC Corby and accepting special waste and liquid sludge. The records date from March 1984 and appear to be duplicates. A registered waste treatment or disposal site record, identified as lapsed, cancelled or defunct, 56m north-west of the Site, refers to the British Steel Western Ponds, a lagoon site accepting a range of chemical wastes, and is assumed to refer to the same facility. Two of the ponds remain present.
- △ One licensed waste management facility record 179m north of the Site, and three registered landfill site records, 492m north of the Site, refer to the CDC (Corby District Council) Deene Quarry landfill, identified as a closed household, commercial and industrial waste landfill. Deene Quarry was used during the 1980s and 1990s by Corby Borough Council to dispose of contaminated soils from the reclamation of the former British Steel works site.

Other

- △ Twenty-nine active and inactive contemporary trade directory entries are reported within a 250m buffer of the Site, associated with engineering, the motor trade, adhesives glues and sealants, distribution and haulage, ornamental metalwork, clothing manufacture, cleaning services, plastics manufacture, packaging, window frame manufacturer, industrial services, printers and sheet metal working. These records relate to activities in the Willowbrook West Industrial Estate and are relatively small scale light industrial activities unlikely to have an impact on the Site.

Apart from the landfill and trade directory entries, and discharge consent and pollution incident records covered in the Surface Water section above, there are no regulatory records listed within 250m of the Site.

<p><b>Local Authority Information</b></p>	<p>Delta-Simons contacted Corby Borough Council (CBC) in order to determine whether the Site is on their list of prioritised sites under Part 2A of the Environmental Protection Act (EPA) 1990. An e-mail request for information has been made to the Environmental Health function of Corby Borough Council. At the time of writing a response is still awaited, however in the opinion of Delta-Simons it is unlikely that the Site will be determined as Contaminated Land or prioritised for inspection or investigation under Part 2A based on the available information.</p>
<p><b>CBC Planning Department</b></p>	<p>Delta-Simons has undertaken a search on the Corby Borough Council online planning database. The planning application for the car storage area, reference 99/00253/PDA, was permitted in around 1999. There are no online records available for this consent.</p> <p>Four further planning applications are listed for the Site on the CBC planning website, comprising application 13/00112/SCOP, application 13/00278/COC, application 14/00387/COC (withdrawn) and application 15/00042/COC. All four applications refer to the proposed construction of an advanced conversion technology pyrolysis plant and anaerobic digestion facility, understood to refer to the currently proposed development. As these are waste facilities the planning authority is Northamptonshire County Council (NCC) and the Borough Council records are in respect of consultation only.</p>
<p><b>NCC Planning Department</b></p>	<p>Two planning applications are listed for the Site on the NCC planning website, comprising application 13/00079/WASFUL, approved 7 February 2014, for erection of an Advanced Conversion Technology (ACT) and Anaerobic Digestion (AD) facility comprising an 8-12 MWe pyrolysis plant and a 2-3 MWe digestion facility, and application 15/00004/VASVOC, approved 15 April 2015, for variation of Condition 30 of application 13/00079/WASFUL.</p> <p>The consolidated list of conditions was issued under the approval of the latter application and includes Conditions 8 to 12 relating to land contamination, reproduced below. It is understood that these conditions remain to be discharged:</p> <p>8. Prior to commencement of development, the following components of a scheme to deal with the risks associated with contamination of the site shall each be submitted to and approved in writing by the Waste Planning Authority.</p> <p>a. A preliminary risk assessment which has identified:</p> <ul style="list-style-type: none"> <li>i) all previous uses;</li> <li>ii) potential contaminants associated with those uses;</li> <li>iii) a conceptual model of the site indicating sources, pathways and receptor;</li> <li>iv) potentially unacceptable risks arising from contamination at the site.</li> </ul>

	<p>b. A site investigation scheme, based on (a) to provide information for a detailed assessment of the risk to all receptors that may be affected, including those off site.</p> <p>c. The results of the site investigation and detailed risk assessment referred to in (b) and, based on these, an options appraisal and remediation strategy giving full details of the remediation measures required and how they are to be undertaken.</p> <p>d. A verification plan providing details of the data that will be collected in order to demonstrate that the works set out in the remediation strategy in (c) are complete and identifying any requirements for longer-term monitoring of pollutant linkages, maintenance and arrangements for contingency action. Any changes to these components require the express written consent of the Waste Planning Authority. The scheme as approved shall be implemented in full.</p> <p>9. No occupation of any part of the permitted development shall take place until a verification report demonstrating completion of works set out in the approved remediation strategy and the effectiveness of the remediation shall be submitted to and approved, in writing, by the local planning authority. The report shall include results of sampling and monitoring carried out in accordance with the approved verification plan to demonstrate that the site remediation criteria have been met. It shall also include any plan (a "long-term monitoring and maintenance plan") for longer-term monitoring of pollutant linkages, maintenance and arrangements for contingency action, as identified in the verification plan. The long-term monitoring and maintenance plan as approved shall be implemented in full.</p> <p>10. If, during development, contamination not previously identified is found to be present at the site then no further development shall be carried out until the developer has submitted, and obtained written approval from the Waste Planning Authority for a remediation strategy detailing how this contamination shall be dealt with.</p> <p>11. No infiltration of surface water drainage into the ground is permitted other than with the express written consent of the Waste Planning Authority, which may be given for those parts of the site where it has been demonstrated that there is no resultant unacceptable risk to controlled waters. The development shall be carried out in accordance with the approved details.</p> <p>12. Piling or any other foundation designs using penetrative methods shall not be permitted other than with the express written consent of the local planning authority, which may be given for those parts of the site where it has been demonstrated that there is no resultant unacceptable risk to groundwater. The development shall be carried out in accordance with the approved details.</p> <p>Delta-Simons would note that these are relatively standard planning conditions pertaining to land contamination.</p>
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### **3.0 REVIEW OF THIRD PARTY REPORTS**

Delta-Simons has obtained copies of third party environmental reports via the Client and the NCC online planning database. A summary and review of the reports is provided below. Due to the size of the reports copies have not been appended to this Report but they are retained on the Delta-Simons project files.

#### **Frank Graham Consulting Engineers for Commission for the New Towns – Shelton Road, Corby, Site Assessment Report Reference CKG/590196/000, May 1996**

The report provides details of a desk study and geo-environmental site investigation carried out on behalf of the Commission for the New Towns, for an area of land associated with the former Corby steelworks including the current Site and areas to the south-west and west. The desk study section covers similar ground to the current Report and reaches conclusions that are consistent with those of the current Report.

The site investigation comprised 13 trial pits and 22 boreholes of which 10 boreholes and 1 trial pit are located on the current Site. The investigation objectives included: to assess the levels of contaminants in the soil and groundwater at the Site, to characterise the leachability of the soil and the potential for off-site migration, and to characterise the landfill gas potential of the Site, and to investigate the stability of the slope along the northern boundary.

Pertinent findings from the investigation can be summarised as follows:

- △ The boreholes were executed entirely within Made Ground or suspected Made Ground. For a description of the materials encountered reference should be made to the review of geology in Section 2 above.
- △ Significant groundwater was not encountered during the investigation, however the steelworks waste was described as occasionally saturated;
- △ Visual signs of potential contamination included black silty steelworks waste, identified as likely to be contaminated with metals, and occasional occurrences of slag and clinker. There was no visual or olfactory evidence of hydrocarbons or naphthalene;
- △ Laboratory analysis results were compared against the then current ICRCL Threshold Trigger Levels (TTL) and, where available, Action Trigger Levels (ATL) for soils, and Dutch Threshold and Intervention Values for soils and groundwater. The results for total analysis of soils indicated that elevated levels of contaminants generally lie within the black steelworks waste, however NRA leachability test results are indicative of limited contaminant mobility;
- △ Exceedances of ICRCL TTL values for metals in soil identified in the upper reworked boulder clay included zinc (max. 1000 mg/kg) and arsenic (max 104 mg/kg). It is noted in reviewing the report that these results do not exceed current SGV or GAC values for commercial end-uses. No exceedances of organic contaminants were noted, however there were no speciated TPH or PAH analyses and very few total TPH analyses carried out and there was a single high total PAH reading (520 mg/kg, associated with an inclusion of slag);
- △ Exceedances of ICRCL TTL values for metals in soil identified in the steelworks waste included zinc (max. 14,000 mg/kg), arsenic (max. 238 mg/kg), lead (max. 3,900 mg/kg), boron (max. 7.9 mg/kg) and nickel (max. 85 mg/kg). It is noted in reviewing the report that these results, with the exception of lead (current C4SL for commercial use 2300 mg/kg), do not exceed current SGV or GAC values for commercial end-uses. No exceedances of organic contaminants were noted, however there were no speciated TPH or PAH analyses and very few total TPH analyses carried out and there were occasional high total PAH results (three results between 50-100 mg/kg). Total organic carbon values ranged between 6.12% and 7.46%;
- △ Exceedances of ICRCL TTL values for metals in soil identified in the material underlying the steelworks waste included zinc (max. 2,200 mg/kg), arsenic (single exceedance, 196 mg/kg), boron (max 10.3 mg/kg) and nickel (single exceedance, 140 mg/kg). It is noted in reviewing the report that these results do not exceed current



SGV or GAC values for commercial end-uses. No exceedances of organic contaminants were noted, however there were no TPH or speciated PAH analyses carried out;

- △ High sulphate levels were observed in all made ground materials;
- △ Leachability analysis showed the levels of leachable contaminants in all materials were below detection limits except for sulphate and boron, and a single detection of monohydric phenol, however only three samples from the Site were tested and the method used is now obsolete;
- △ Monitoring of groundwater wells indicated slow recharge and depth to groundwater ranging from 7 m to 20 m bgl. No groundwater samples were obtained from the current Site. Apart from total sulphate and sulphur, boron and a single detection of total cyanide, no detectable concentrations of the determinands analysed were identified;
- △ Three rounds of gas monitoring were carried out, including three boreholes on the current Site. The readings from these boreholes showed a maximum methane concentration of 5.7%, a maximum carbon dioxide concentration of 13.6%, a maximum hydrogen sulphide concentration of 44.1 ppm and a minimum oxygen concentration of 0%. No gas flow measurements were taken. According to the Frank Graham report the source of the ground gas is believed to be the steelworks waste material.
- △ Slope stability analysis reported in Appendix D to the main report reported minimum factors of safety of 0.923 for the slope to the north of the Site. This indicates an unstable slope, however the report states that conservative soil parameters were used due to limited test data and sample recovery problems. The report concluded that the slope was marginally stable, reliant on thick vegetation and rough woodland for stability. It was recommended that no built development should occur within 17m of the top of the slope.

**Babtie Group Report Site G – Shelton Road, Willowbrook Industrial Estate, Corby, Validation Report. Ref. BGE 200945, dated 11<sup>th</sup> March 2002. (Provided within Entran Environmental Statement, Volume 2 Appendix 12)**

The report provides details of the validation of remediation works carried out to an area of land including the current Site and areas to the south-west and west, to allow the construction of the current vehicle storage/parking area.

The remediation works were carried out by Weston Landfill Ltd and supervised by Babtie. The works comprised the clearance and disposal of vegetation and contaminated topsoil, regrading of the site to the required profile (a 1:50 crossfall to the southern boundary), filling of a drainage ditch with hard material, placement of a 100 mm drainage layer over a geotextile, and placement of a 500 mm capping layer (granular material, similar to Department of Transport specification “Type 1” sub-base) over the drainage layer. In addition a strip of landscaping 17 m wide was provided along the northern Site boundary to allow for any future instability of the embankment.

Pertinent points from the report can be summarised as follows:

- △ Works were carried out between October 2000 and December 2001;
- △ The design of the remedial works included provision of a landfill gas venting trench filled with “pea shingle” along the northern boundary of the Site, to allow gas to vent from the granular capping layer;
- △ The validation sampling exercise over the wider area included 48 soil samples, of which 23 were located on the current Site.
- △ Analytical test results from samples taken in the reworked and levelled ground were compared against remediation criteria derived by Babtie, appropriate for commercial end-use. No exceedances were recorded other than some samples that showed elevated levels of nickel (single exceedance, 77 mg/kg) and zinc (maximum 7600 mg/kg). These were considered not to be a risk to the proposed car storage development as they were regarded as phytotoxic contaminants. It is noted in reviewing the report that these results do not exceed current SGV or GAC values for commercial end-uses.

**Entran Ltd, Shelton Road, Corby, Energy Recovery Centre, Environmental Statement. Volume 1, Main Text, Sections 12 (Water Quality and Hydrology) and 13 (Soils, Geology and Land Contamination)**

The report provides the main text of the Environmental Statement for the planning application referred to above for the proposed energy recovery facility. The sections identified have been reviewed for this Report.

Section 12, Water Quality and Hydrology

The pertinent findings were as follows:

- △ The assessment was desk based and used information from a Landmark Envirocheck<sup>®</sup> report, a drainage and water enquiry and other public information sources;
- △ The desk study section covers similar ground to the current Report and reaches conclusions that are consistent with those of the current Report.
- △ The risk of flooding at the Site was identified as low;
- △ The water resources in the vicinity of the Site are considered to be of low sensitivity;
- △ The drainage arrangements for the proposed development would reduce surface water discharge compared with the current land use and therefore be beneficial;
- △ Following mitigation, comprising investigation and risk assessment of contamination on Site and implementation of any remedial measures identified, the residual risk to controlled waters was assessed as negligible.

Section 13, Soils, Geology and Land Contamination

The pertinent findings were as follows:

- △ The assessment was non-intrusive and used information from a Landmark Envirocheck<sup>®</sup> report, review of historical maps, a site walkover and a review of previous site investigation and remediation reports (specifically, the Frank Graham and Babbie reports reviewed above);
- △ The assessment covers similar ground to the current Report and reaches conclusions that are consistent with those of the current Report.
- △ The section presented a Conceptual Site Model that identified source-pathway-receptor linkages and identified risks associated with these linkages. Risks were identified as low except for: ingestion/inhalation/dermal contact of contaminants by construction workers and future Site users (moderate to low), direct contact of contaminants with building materials (moderate), land gas migration from steelworks/lagoon waste into buildings (moderate), migration from impacted soils to groundwater (moderate to low), migration of land gas and vapours from landfills adjacent to the Site (moderate to low);
- △ Potential construction effects discussed include disposal of contaminated spoil from groundworks activities (negligible), risks to site workers and public safety during construction (negligible), risks to water resources during foundation piling (moderate adverse), exposure of soil to leaching (minor adverse) and contamination of ground during construction (minor adverse).
- △ Potential operational effects discussed include risks to future Site users (minor adverse), risks to water resources (minor adverse) and contamination of ground by the completed development (negligible).
- △ Mitigation measures identified include a further intrusive ground investigation, risk assessment, treatment of contaminated soils and provision of gas protection measures in buildings, precautions during construction to protect workers and the public, preparation of a Foundation Works Risk Assessment report to address potential migratory pathways from foundation piling, containment of any potentially leachable soils and measures to be provided in a Construction Environmental Management Plan.
- △ Following implementation of mitigation measures the potential effects identified above would be negligible except for possible short term impact of contamination during construction.

## **4.0 CONCEPTUAL SITE MODEL**

### **4.1 Introduction**

A CSM represents the relationships between contaminant sources, pathways and receptors, to support the identification and assessment of possible pollutant linkages (PPL) and an assessment of known pollutant linkages, where identified from existing information.

Where PPLs are identified, a preliminary risk assessment is carried out to assess the likelihood that each possible linkage exists and to decide whether these pose potentially unacceptable risks to identified receptors and require further assessment. Where this linkage is of a form that subsequently leads to land being identified as 'contaminated land' under the terms of Part 2A of the EPA 1990, the linkage is termed a significant pollutant linkage.

At the preliminary risk assessment stage, which is usually based upon desk top information, the decision on whether a PPL poses a potentially unacceptable risk is based upon professional judgement. The significance of the PPL will also be determined dependent on the context of the land use and the purpose of the assessment.

Assessing risks from land contamination underpins the "suitable for use" approach adopted for Part 2A of the EPA 1990 regulatory regime.

The CSM can consider either an existing or proposed use of the Site. In this Report the CSM is to consider the proposed development of a waste gasification plant, together with ancillary and support facilities.

### **4.2 CSM Summary and Risk Assessment**

The Site is proposed to be developed as a waste gasification plant, together with ancillary and support facilities. This will comprise a large industrial building containing process plant, a number of external fire water tanks, a surface water flow balancing pond, hard surfaced roadways, parking and vehicle delivery areas and landscaping, and is considered to be a low sensitivity development with a commercial end-use.

Historically the Site has been associated with opencast ironstone mining and backfilling with steelworks wastes and reworked overburden materials, prior to surface remediation works carried out in 2001-2002 for construction of the current vehicle storage area.

The Site is underlain by a significant thickness of Made Ground, comprising around 600mm granular cover material overlying around 8 m of reworked glacial till, overlying where present a further 2 m to 9 m of sandy slit-graded steelworks/lagoon waste. This overlies further reworked material of a clayey sand grading over bedrock of the Northamptonshire Sand Ironstone, classified as a Secondary A Aquifer. Groundwater has been observed at depths of between 8 m and 20 m bgl in the bedrock or perched in the made ground.

The Site is not located within a groundwater Source Protection Zone (SPZ) and there are no groundwater abstraction records within 2 km of the Site.

The nearest surface water feature is the channelized Willow Brook North Arm, located approximately 8 m to the north of the Site. The only surface water abstraction record within 2 km of the Site refers to a revoked abstraction from the Willow Brook, 1,865m south of the Site, for cooling purposes.

The environmental sensitivity of the Site setting is considered to be low to moderate given the proximity of the Willow Brook North Arm watercourse to the northern Site boundary, the significant thickness of low permeability reworked glacial till, the designation of the bedrock as a Secondary A Aquifer and the lack of proximate ground and surface water abstractions.

Based on the information reviewed, a preliminary risk assessment using the Source-Pathway-Receptor approach has been formulated, which identifies PPLs at the Site in the context of the proposed redevelopment of the Site for the identified industrial use. The risk definitions are provided in Appendix IV.

**Table 2: Conceptual Site Model**

Source	Pathway	Receptor	Risk	Justification and Further Action/Mitigation Required
Metallic and organic contaminants in reworked glacial till made ground beneath the Site	Direct contact/ingestion and inhalation of dust and vapours	Gasification plant site users/visitors	<b>Low Risk</b>	Significant contamination has not been identified in this material in the 1996 investigation of in validation tests carried out in 2002. In addition a granular Site cover totalling 0.6m thickness has been provided and it is anticipated that the new development will maintain a similar cover thickness. It is considered that should any localised contamination be present, the associated pathways would be limited and the risk to Site users is anticipated to be low.
	Direct contact/ingestion and inhalation of dust and vapours	Construction/maintenance groundworkers	<b>Low to Moderate Risk</b>	Although significant contamination is unlikely at the Site there is the potential for construction/maintenance groundworkers to become exposed to any localised contaminated soils or made ground during any intrusive groundwork or bored piling. Safe working practices should be implemented and appropriate personal protective equipment (PPE) should be used to mitigate any potential risk from contact with soils and made ground.
	Leaching and migration through any shallow groundwater present beneath the Site	Controlled Waters (Secondary A Aquifer and Willow Brook North Arm)	<b>Low Risk</b>	Limited leachability analysis carried out in the 1996 investigation indicates that the material is of low leachability. In addition, the reworked glacial till is assumed to be of low permeability, reducing the potential for contaminant mobilisation and vertical migration through rainfall infiltration, and shallow groundwater is only present as isolated perched water. The development proposals exclude infiltration of surface water drainage. Therefore, the risk of the Site generating significant groundwater contamination is considered to be low.
	Direct contact and permeation	Service conduits	<b>Low to Moderate Risk</b>	There is a limited potential for contaminant concentrations that may affect water supply pipes to be present. However from experience water companies take a conservative approach. Liaison should be carried out with the local water company in order to confirm the requirement for upgraded pipework.
	Lateral migration via any groundwater beneath the Site and volatilisation	Off-Site receptors	<b>Low Risk</b>	As detailed above, it is unlikely that the current Site would cause significant groundwater contamination; therefore, the risk to off-Site receptors is also considered to be low.
Metallic and organic contaminants in steelworks/lagoon fill made ground beneath the Site	Direct contact/ingestion and inhalation of dust and vapours	Gasification plant site users/visitors	<b>Low Risk</b>	Given the depth of the material below surface the risk to Site users and visitors is assessed as low.
	Direct contact/ingestion and inhalation of dust and vapours	Construction/maintenance groundworkers	<b>Low to Moderate Risk</b>	Although significant contact with this material is unlikely given its depth below surface there is the potential for construction/maintenance groundworkers to become exposed to any localised contaminated soils or made ground during any bored piling. Safe working practices should be implemented and appropriate personal protective equipment (PPE) should be used to mitigate any potential risk from contact with soils and made ground.

Source	Pathway	Receptor	Risk	Justification and Further Action/Mitigation Required
	Leaching and migration through any groundwater present beneath the Site	Controlled Waters (Secondary A Aquifer and Willow Brook North Arm)	<b>Low Risk</b>	Limited leachability analysis carried out in the 1996 investigation indicates that the material is of low leachability. In addition, the overlying reworked glacial till is assumed to be of low permeability, reducing the potential for contaminant mobilisation and vertical migration through rainfall infiltration. The development proposals exclude infiltration of surface water drainage. Therefore, the risk of the Site generating significant groundwater contamination is considered to be low. However there is the potential for increased infiltration and leaching if pathways are created by driven piling.
	Direct contact and permeation	Service conduits	<b>Low Risk</b>	Given the depth below ground of this material the potential for permeation of water supply pipes is considered low.
	Lateral migration via any groundwater beneath the Site and volatilisation	Off-Site receptors	<b>Low Risk</b>	As detailed above, it is unlikely that the current Site would cause significant groundwater contamination; therefore, the risk to off-Site receptors is also considered to be low.
Ground gas from steelworks/lagoon fill Made Ground or from nearby landfill sites	Vertical and lateral migration and accumulation of gas in enclosed spaces and sub-floor voids	Gasification plant site users and the buildings	<b>Moderate Risk</b>	The steelworks/lagoon fill material has high TOC values and has been shown during the 1996 investigation to contain methane and carbon dioxide gas. Landfilling of domestic, commercial and industrial waste is recorded within the surrounding area. However the reworked glacial till is likely to be of low permeability and the current development includes a perimeter gas venting trench on the northern Site boundary. There is a potential for increased migration to occur if pathways are created by driven piling. Appropriate gas protection measures will likely need to be specified for built development on the Site.
Contaminated groundwater from identified potential off-Site sources	Lateral migration via any shallow groundwater beneath the Site	Gasification plant site users	<b>Low Risk</b>	Landfills and former steelmaking and associated operations in the surrounding area could give rise to contaminated groundwater, however occurrences of shallow groundwater beneath the Site are isolated perched water and not connected with external groundwater bodies. Off-site contaminated groundwater is considered unlikely to be the source of significant impact on the Site, and the risk from any significant off-Site sources is considered to be low.
Aggressive components of made ground soil and groundwater (sulphates, sulphides, acidity)	Direct contact with concrete in/on the ground	Structural elements (e.g. piles, pile caps, ground bearing slabs, drainage pipes)	<b>Moderate Risk</b>	High sulphate and sulphide levels observed in steelworks/lagoon fill and reworked glacial till in the Made Ground. These have the potential to attack concrete. A moderate risk of sulphate attack on concrete is assessed, that will need to be addressed by appropriate specification of concrete in accordance with BRE Digest SD1.
Phytotoxic contaminants in near surface soils	Vegetation uptake	Vegetation in landscaping zones	<b>Low Risk</b>	Phytotoxic contamination is present in some near surface soils, however there is no evidence of adverse impact on existing landscaping. Future landscaping will be planted in imported clean soils capable of supporting plant growth.

## **5.0 GEOTECHNICAL AND STRUCTURAL CONSTRAINTS**

The review of environmental data and previous geotechnical and geoenvironmental reports has enabled a number of geotechnical and structural issues to be identified that are potential constraints on the proposed development of the Site. The detailed assessment of these constraints is beyond the scope of the current desk-based assessment, however they are identified as potential issues in order to inform the scoping of further Phase II intrusive investigation works.

### **5.1 Geotechnical Constraints**

The following geotechnical issues are potential constraints affecting the development of the Site:

- △ A significant but variable thickness of Made Ground (up to 19m proved) is present beneath the Site surface. It is unlikely that the bulk of this has received any formal compaction and a significant proportion arose from settlement of solids in a lagoon. There is therefore a potential for high total and differential settlements to take place as a result of loadings created by new buildings and roadways. Sampling and testing to allow the magnitude of total and differential settlement to be assessed will be required as part of further site investigations.
- △ If quarry excavations have been carried out discontinuously, there is a potential for buried faces (“highwalls”) to be present at depth with different thicknesses of backfill on either side, thus leading to high localised differential settlements;
- △ Foundations for the built development on the Site will need to be designed to take account of the thickness of Made Ground. This is likely to necessitate the use of piling. There is currently insufficient information on the depth of a suitable founding level for foundation piling and this will need to be confirmed as part of further site investigations.
- △ Dependent on the method of piling selected in design, there is the potential to create contaminant pathways (mainly driven piling) or to bring large volumes of arisings (potentially hazardous waste) to the surface, requiring disposal (bored piling). There are piling methods available that can avoid these issues, subject to their suitability in design. It will be necessary to carry out a Foundation Works Risk Assessment to assess the implications of any piling proposals on the Conceptual Site Model and the potential for contaminant migration.

- △ It may be possible to reduce the need for piling by using a surcharging method to preload the ground by temporary placement of fill and thereby create sufficient densification to minimise total and differential settlements. This is an established method in the Corby area for preparation of sites for development. A significant volume of fill would need to be imported and later re-exported and there would be implications for the stability of the northern slope if fill was placed close to it.
- △ There is evidence of slag material being present within the reworked glacial till zone near the surface of the Site. Slag is potentially expansive and will require assessment and specialist testing as part of further site investigations.
- △ Slope stability analysis carried out in 1996 has indicated that the northern slope is only marginally stable, and any increased loading on this slope, for example from tanks or buildings constructed near to the top of the slope could adversely affect its stability. A drawing provided by the Client indicates that the main building may impinge on the existing landscaping/exclusion zone at the top of the slope. If structures are to be constructed near to the top of the slope it may be necessary to carry out stabilisation works to the slope, or to isolate the foundations for the structures from the slope, for example by use of piling. Sampling and testing to allow design parameters to be derived will be required as part of further site investigations.

## **5.2 Structural Constraints**

The following structural issues are potential constraints affecting the development of the Site:

- △ There is evidence of material present in the Made Ground that could impact on the integrity of concrete by causing sulphate attack. Sampling and testing to allow assessment of the aggressive chemical environment in accordance with the current edition of BRE Digest SD1 (Concrete in Aggressive Ground) will be required as part of further Site investigations, and concrete in contact with the ground, particularly that in piles, pile caps, footings, ground bearing slabs and drainage pipes, will require to be designed in accordance with BRE Digest SD1.
- △ There is the potential for ground gases, particularly methane and carbon dioxide but also potentially hydrogen sulphide, to migrate into buildings and enclosures on the Site. Investigation and monitoring of the ground gas regime to assess the potential significance will be required as part of further Site



investigations. Due to the time period over which monitoring has to take place to comply with current guidance, it is necessary to commence this exercise some time prior to commencement of development. Once sufficient information is available to characterise the ground gas regime, appropriate gas protection measures will need to be designed into the building fabric in accordance with the recommendations of CIRIA publication C665.

## **6.0 CONCLUSIONS AND RECOMMENDATIONS**

### **6.1 Summary, Conclusions and Recommendations**

<p><b>Site Summary</b></p>	<p>The Site is located to the west of Shelton Road, which is accessed from the A6116 Steel Road, in the Willowbrook East Industrial Estate, around 3 km north-east of Corby town centre, with an area of approximately 2.53 Ha.</p> <p>The Site is proposed to be redeveloped for a gasification plant together with ancillary and support facilities. This will comprise a large industrial building containing process plant, a number of external fire water tanks, a surface water flow balancing pond, hard surfaced roadways, parking and vehicle delivery areas and landscaping, and is considered to be a low sensitivity development with a commercial end-use.</p> <p>Historically the Site has been associated with opencast ironstone mining and backfilling with steelworks wastes and reworked overburden materials, prior to surface remediation works carried out in 2001-2002 for construction of the current vehicle storage area.</p> <p>The Site is underlain by a significant thickness of Made Ground, comprising around 600mm granular cover material overlying around 8 m of reworked glacial till, overlying where present a further 2 m to 9 m of sandy silt-graded steelworks/lagoon waste fill. This overlies further reworked material of a clayey sand grading over bedrock of the Northamptonshire Sand Ironstone, classified as a Secondary A Aquifer. Groundwater has been observed at depths of between 8 m and 20 m bgl in the bedrock or perched in the made ground.</p> <p>The Site is not located within a groundwater Source Protection Zone (SPZ) and there are no groundwater abstraction records within 2 km. of the Site.</p> <p>The nearest surface water feature is the channelized Willow Brook North Arm, located approximately 8 m to the north of the Site. The only surface water abstraction record within 2 km of the Site refers to a revoked abstraction from the Willow Brook, 1,865 m south of the Site, for cooling purposes.</p> <p>The environmental sensitivity of the Site setting is considered to be low to moderate given the proximity of the Willow Brook North Arm watercourse to the northern Site boundary, the significant thickness of low permeability reworked glacial till, the designation of the bedrock as a Secondary A Aquifer and the lack of proximate ground and surface water abstractions.</p>
<p><b>Conceptual Site Model</b></p>	<p>Delta-Simons has completed a source-pathway-receptor risk assessment for the proposed development based upon available information. The potential for significant contamination to be present at the Site is considered to be limited given the results of previous investigations carried out on the Site. However there is an identified issue with ground gas and the thickness of uncompacted Made Ground may give rise to a requirement for piled foundations, with the potential to introduce further pollutant linkages.</p> <p>Therefore, the potential risks to Human Health and controlled waters from potential soil, ground gas and groundwater contamination is</p>

	<p>deemed to be generally low, but moderate in the cases of ground gas and sulphate attack on concrete, and low to moderate in the cases of contact with groundworkers and water supply pipes.</p>
<p><b>Conclusions and Recommendations</b></p>	<p>Previous site investigations indicate that contamination of the ground beneath the Site is limited, although these were carried out nearly two decades ago and not in accordance with current guidance. Previous investigations identified that ground gas (methane and carbon dioxide) is present associated with the steelworks waste. There is a significant thickness of Made Ground (up to 19 m proved) comprising reworked glacial till overlying steelworks/lagoon waste and as well as having limited contamination issues, it presents a number of geotechnical and structural issues. These include expansivity of slag, settlement, slope stability and ground aggressive to concrete. The use of piling for building foundations has the potential to introduce further pollutant linkages and/or to generate waste arisings at the surface that could potentially be classified as hazardous.</p> <p>Conditions placed on the previous planning consent for the proposed development require that a preliminary risk assessment, Site investigation, risk assessment, remedial options appraisal, remediation strategy and verification plan, should be completed, submitted to and approved by the waste planning authority, and that a verification report confirming that remediation has been completed in accordance with the above, should be submitted and approved prior to commencement of development.</p> <p>Further planning conditions exclude the infiltration of surface water into the ground beneath the development, and state that piling or other foundation designs using penetrative methods shall not be used without the consent of the planning authority, which will only be given if it is demonstrated that no adverse risk to groundwater results.</p> <p>Ground investigation will need to be undertaken to provide greater certainty on the risks associated with land contamination and ground conditions in order to determine potential abnormal development costs.</p> <p>Geotechnical and foundation designs for the proposed facility will need to be scoped to take account of the issues identified above. Particular attention is drawn to the need for the proposed layout to ensure the stability of the slope to the north of the Site, and for piling proposals to take account of the potential for creation of pollutant linkages and waste arisings, and to demonstrate that these have been addressed through a Foundation Works Risk Assessment.</p>

## **6.2 Risk Statements**

This Assessment considers both perceived and actual risks using the Source-Pathway-Receptor concept, with the principal measure of risk being whether significant harm (to people, animals, property (including buildings, cattle etc.), or ecosystems) or pollution of controlled waters (surface water bodies, aquifers, coastal waters, or territorial waters) is being caused, or whether there is a significant possibility of such harm being caused.

The overall risk classification, based on the Source-Pathway-Receptor principle, adopted for this preliminary assessment, is defined as follows:

- Δ Low risk – issue unlikely to present a liability or cost;
- Δ Moderate risk – issue may present a liability or cost, but these may be limited;  
and
- Δ High risk – likely that significant liabilities and/or costs exist.

Following the collection and review of desk study data, Delta-Simons has formulated a CSM. On the basis of the CSM, Delta-Simons considers that in the context of the Site's proposed development, the following risk and liability statements can be made:

**Table 3: Liability Assessment**

Regulatory Body Enforcement	There is a <b>Low</b> risk of enforcement action at the Site, in the context of ongoing use, this is likely to remain a Low risk post redevelopment provided works are undertaken in accordance with planning conditions.
Third Party Liability	Potential for legal action by surrounding landowners based on the potential for contamination to migrate off-Site is considered to be <b>Low</b> .
Redevelopment – Environmental	<p>The redevelopment of the Site will require site investigation works to be undertaken and a remediation plan to be developed. It is considered unlikely that there will be a requirement for a significant remediation programme. There will likely be increased costs for material disposal should significant excavations be proposed requiring off-site disposal.</p> <p>Delta-Simons considers there is currently a <b>Low</b> risk that significant remediation will be required to facilitate the proposed redevelopment, however, some works are anticipated.</p>
Redevelopment – Ground Conditions (Geotechnical)	<p>A number of constraints have been identified in relation to the ground conditions on the Site, which have the potential to result in abnormal development costs including the significant depth of fill and its settlement, a likely requirement for piling and issues around slope stability.</p> <p>Delta-Simons considers there is currently a <b>Moderate to High</b> risk that additional costs will be incurred to address the identified geotechnical constraints to facilitate the proposed redevelopment.</p>
<b>Overall Statement of Risk</b>	On the basis of available information, Delta-Simons considers that with regard to potential soil and groundwater contamination, ground gas and associated environmental, geotechnical and structural liabilities, for its proposed commercial use, the Site represents an investment opportunity with a <b>Moderate</b> overall risk status, however, this could be mitigated through appropriate allowances to address the identified geotechnical and environmental constraints.

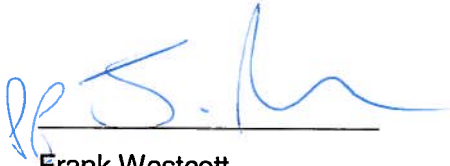
## **7.0 LIMITATIONS TO ENVIRONMENTAL ASSESSMENTS**

The recommendations contained in this Report represent Delta-Simons professional opinions, based upon the information referred to in Section 1.0 of this Report, exercising the duty of care required of an experienced Environmental Consultant. Delta-Simons does not warrant or guarantee that the Site is free of hazardous or potentially hazardous materials or conditions.

Delta-Simons obtained, reviewed and evaluated information in preparing this Report from the Client and others. Delta-Simons conclusions, opinions and recommendations have been determined using this information. Delta-Simons does not warrant the accuracy of the information provided to it and will not be responsible for any opinions which Delta-Simons has expressed, or conclusions which it has reached in reliance upon information which is subsequently proven to be inaccurate.

This Report was prepared by Delta-Simons for the sole and exclusive use of the Client and for the specific purpose for which Delta-Simons was instructed as defined in Section 1.1 of this Report. Nothing contained in this Report shall be construed to give any rights or benefits to anyone other than the Client and Delta-Simons, and all duties and responsibilities undertaken are for the sole and exclusive benefit of the Client and not for the benefit of any other party. In particular, Delta-Simons does not intend, without its written consent, for this Report to be disseminated to anyone other than the Client or to be used or relied upon by anyone other than the Client. Use of the Report by any other person is unauthorised and such use is at the sole risk of the user. Anyone using or relying upon this Report, other than the Client, agrees by virtue of its use to indemnify and hold harmless Delta-Simons from and against all claims, losses and damages (of whatsoever nature and howsoever or whensoever arising), arising out of or resulting from the performance of the work by the Consultant.

This Report was prepared by:



Frank Westcott

**Environmental Consultant**

7<sup>th</sup> July 2015

Date

This Report was reviewed by:



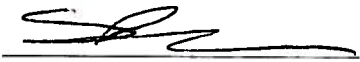
Simon Clennell-Jones

**Unit Director**

7/7/15

Date

This Report was authorised by:



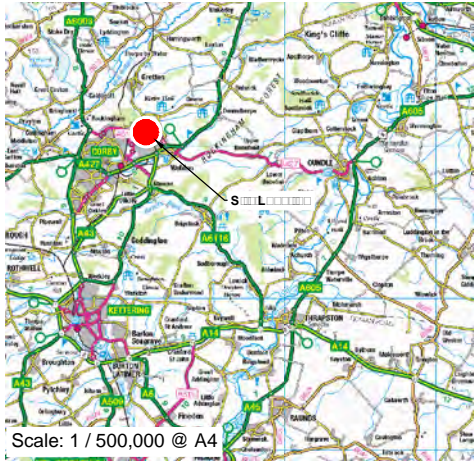
Simon Brown

**Commercial Director**


7/7/15

Date





**LEGEND**

 Site Boundary



Scale: 1 / 10,000 @ A4

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TITLE:  
Site Location Map  
Shelton Road  
Corby

DRAWN BY: DP	SCALE: To Scale@A4
CHECKED BY: SE	REVISION: 1
DATE: 02/02/2015	

PROJECT NO: 15-0645.01
FIGURE NO: <input type="checkbox"/>





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TITLE:  
**Site Layout Map**  
 Shelton Road  
 Corby

DRAWN BY: DP	SCALE: Not to Scale	PROJECT NO: 15-0645.01
CHECKED BY: SE	REVISION: 1	FIGURE NO: □
DATE: 02/01/2015		



## Envirocheck<sup>®</sup> Report:

### Datasheet

#### Order Details:

**Order Number:**

69227499\_1\_1

**Customer Reference:**

15-0645.01

**National Grid Reference:**

490910, 290860

**Slice:**

A

**Site Area (Ha):**

4.12

**Search Buffer (m):**

1000

#### Site Details:

Shelton Road

Willowbrook East Industrial Estate

CORBY

Northamptonshire

NN17 5XH

#### Client Details:

Ms J Trevelyan

Delta Simons

3 Henley Office Park

Doddington Road

Lincoln

LN6 3QR

Report Section	Page Number
Summary	-
Agency & Hydrological	1
Waste	10
Hazardous Substances	20
Geological	21
Industrial Land Use	33
Sensitive Land Use	45
Data Currency	46
Data Suppliers	52
Useful Contacts	53

## Introduction

The Environment Act 1995 has made site sensitivity a key issue, as the legislation pays as much attention to the pathways by which contamination could spread, and to the vulnerable targets of contamination, as it does the potential sources of contamination. For this reason, Landmark's Site Sensitivity maps and Datasheet(s) place great emphasis on statutory data provided by the Environment Agency/Natural Resources Wales and the Scottish Environment Protection Agency; it also incorporates data from Natural England (and the Scottish and Welsh equivalents) and Local Authorities; and highlights hydrogeological features required by environmental and geotechnical consultants. It does not include any information concerning past uses of land. The datasheet is produced by querying the Landmark database to a distance defined by the client from a site boundary provided by the client.

In the attached datasheet the National Grid References (NGRs) are rounded to the nearest 10m in accordance with Landmark's agreements with a number of Data Suppliers.

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## Report Version v49.0

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
<b>Agency &amp; Hydrological</b>					
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 1		3		1
Enforcement and Prohibition Notices					
Integrated Pollution Controls	pg 1				3
Integrated Pollution Prevention And Control	pg 2	1			3
Local Authority Integrated Pollution Prevention And Control					
Local Authority Pollution Prevention and Controls	pg 3			5	10
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 5		Yes		
Pollution Incidents to Controlled Waters	pg 5				5
Prosecutions Relating to Authorised Processes	pg 6				2
Prosecutions Relating to Controlled Waters					
Registered Radioactive Substances					
River Quality	pg 6	1		1	
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points					
Substantiated Pollution Incident Register	pg 7		1		2
Water Abstractions	pg 7				(*1)
Water Industry Act Referrals					
Groundwater Vulnerability	pg 7	Yes	n/a	n/a	n/a
Bedrock Aquifer Designations	pg 7	Yes	n/a	n/a	n/a
Superficial Aquifer Designations			n/a	n/a	n/a
Source Protection Zones					
Extreme Flooding from Rivers or Sea without Defences	pg 7		Yes	n/a	n/a
Flooding from Rivers or Sea without Defences	pg 8		Yes	n/a	n/a
Areas Benefiting from Flood Defences				n/a	n/a
Flood Water Storage Areas				n/a	n/a
Flood Defences				n/a	n/a
Detailed River Network Lines	pg 8		Yes		n/a
Detailed River Network Offline Drainage	pg 9		Yes	Yes	n/a

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
<b>Waste</b>					
BGS Recorded Landfill Sites	pg 10		1		
Historical Landfill Sites	pg 10		3	3	6
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)	pg 12	1	1		
Licensed Waste Management Facilities (Locations)	pg 13				9
Local Authority Recorded Landfill Sites					
Registered Landfill Sites	pg 15			4	5
Registered Waste Transfer Sites					
Registered Waste Treatment or Disposal Sites	pg 18		1		4
<b>Hazardous Substances</b>					
Control of Major Accident Hazards Sites (COMAH)	pg 20				1
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)	pg 20			1	1
Planning Hazardous Substance Consents	pg 20				1
Planning Hazardous Substance Enforcements					
<b>Geological</b>					
BGS 1:625,000 Solid Geology	pg 21	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 21	Yes	Yes	Yes	Yes
BGS Recorded Mineral Sites	pg 28				7
BGS Urban Soil Chemistry	pg 29		Yes	Yes	Yes
BGS Urban Soil Chemistry Averages	pg 31	Yes			
Brine Compensation Area			n/a	n/a	n/a
Coal Mining Affected Areas			n/a	n/a	n/a
Mining Instability			n/a	n/a	n/a
Man-Made Mining Cavities					
Natural Cavities					
Non Coal Mining Areas of Great Britain				n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 31	Yes		n/a	n/a
Potential for Compressible Ground Stability Hazards	pg 31	Yes		n/a	n/a
Potential for Ground Dissolution Stability Hazards	pg 31		Yes	n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 31	Yes		n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 31	Yes		n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 31		Yes	n/a	n/a
Radon Potential - Radon Affected Areas			n/a	n/a	n/a
Radon Potential - Radon Protection Measures			n/a	n/a	n/a

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
<b>Industrial Land Use</b>					
Contemporary Trade Directory Entries	pg 33		29	13	74
Fuel Station Entries					
<b>Sensitive Land Use</b>					
Areas of Adopted Green Belt					
Areas of Unadopted Green Belt					
Areas of Outstanding Natural Beauty					
Environmentally Sensitive Areas					
Forest Parks					
Local Nature Reserves					
Marine Nature Reserves					
National Nature Reserves					
National Parks					
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones	pg 45	1			
Ramsar Sites					
Sites of Special Scientific Interest					
Special Areas of Conservation					
Special Protection Areas					

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	<p><b>Discharge Consents</b></p> <p>Operator: British Steel Fao Mr R Murdoch  Property Type: Undefined Or Other  Location: Corby Steel Works  Authority: Environment Agency, Anglian Region  Catchment Area: Willow Brook  Reference: Pr5nf232  Permit Version: 1  Effective Date: 16th January 1963  Issued Date: 16th January 1963  Revocation Date: 24th March 1992  Discharge Type: Trade Discharge - Process Water  Discharge: Freshwater Stream/River  Environment:  Receiving Water: Willow Brook (Central Stream)  <b>Status: Pre National Rivers Authority Legislation where issue date &lt; 01/09/1989</b>  Positional Accuracy: Located by supplier to within 10m</p>	A13SW (W)	68	3	490650 290850
2	<p><b>Discharge Consents</b></p> <p>Operator: Corus Tubes  Property Type: Undefined Or Other  Location: Corby Steel Works, Corby, Nn17  Authority: Environment Agency, Anglian Region  Catchment Area: Willow Brook  Reference: Pr5nf232  Permit Version: 1  Effective Date: 16th January 1963  Issued Date: 16th January 1963  Revocation Date: 24th March 1992  Discharge Type: Trade Effluent  Discharge: Freshwater Stream/River  Environment:  Receiving Water: Willow Brook (Central Stream)  <b>Status: Pre National Rivers Authority Legislation where issue date &lt; 01/09/1989</b>  Positional Accuracy: Located by supplier to within 10m</p>	A13SW (W)	122	3	490600 290820
2	<p><b>Discharge Consents</b></p> <p>Operator: British Steel Fao Mr R Murdoch  Property Type: Undefined Or Other  Location: Corby Steel Works  Authority: Environment Agency, Anglian Region  Catchment Area: Willow Brook  Reference: Pr5nf232  Permit Version: 1  Effective Date: 16th January 1963  Issued Date: 16th January 1963  Revocation Date: 24th March 1992  Discharge Type: Trade Effluent  Discharge: Freshwater Stream/River  Environment:  Receiving Water: Willow Brook (Central Stream)  <b>Status: Pre National Rivers Authority Legislation where issue date &lt; 01/09/1989</b>  Positional Accuracy: Located by supplier to within 10m</p>	A13SW (W)	122	3	490600 290820
3	<p><b>Discharge Consents</b></p> <p>Operator: Greatline Developments Ltd  Property Type: Extraction Of Stone, Gravel Etc.  Location: Deene Quarry, Gretton Brook Rd Entrance, Corby  Authority: Environment Agency, Anglian Region  Catchment Area: Willow Brook  Reference: Pmnmf09590  Permit Version: 1  Effective Date: 19th November 1993  Issued Date: 19th November 1993  Revocation Date: 23rd August 2006  Discharge Type: Trade Effluent Discharge-Site Drainage  Discharge: Freshwater Stream/River  Environment:  Receiving Water: Gretton Brook  <b>Status: Consent revoked: Discharge ceased (Water Resources Act 1991, Schedule 10 &amp; 6)</b>  Positional Accuracy: Located by supplier to within 100m</p>	A17SW (NW)	764	3	490100 291300
4	<p><b>Integrated Pollution Controls</b></p> <p>Name: Fairline Boats Plc  Location: Sallow Road, Weldon Industrial Estate, CORBY, Northamptonshire, NN17 5JX  Authority: Environment Agency, Anglian Region  Permit Reference: AP3401  Dated: 1st December 1994  Process Type: IPC new application  Description: Not Given  <b>Status: Application referred to Local Authority for consideration</b>  Positional Accuracy: Automatically positioned to the address</p>	A9NW (SE)	514	3	491441 290492



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
5	<p><b>Integrated Pollution Controls</b></p> <p>Name: Roquette Uk Ltd            Location: Lammas Road, Weldon Industrial Estate, CORBY, Northamptonshire, NN17 5EX            Authority: Environment Agency, Anglian Region            Permit Reference: Bi6945            Dated: 21st December 2000            Process Type: IPC minor (non-substantial) variation to previous variation            Description: 4.5 A (M) Inorganic Chemical processes within the Chemical Industry  <b>Status: Authorisation revokedRevoked</b>            Positional Accuracy: Automatically positioned to the address</p>	A10NW (SE)	988	3	491953 290376
5	<p><b>Integrated Pollution Controls</b></p> <p>Name: Roquette Uk Ltd            Location: Lammas Road, Weldon Industrial Estate, CORBY, Northamptonshire, NN17 5EX            Authority: Environment Agency, Anglian Region            Permit Reference: AN8186            Dated: 14th November 1994            Process Type: IPC application for process that was regulated by HMIP for air releases under previous legislation            Description: 4.5 A (M) Inorganic Chemical processes within the Chemical Industry  <b>Status: Authorisation superseded by a substantial or non substantial variationSuperseded</b>            Positional Accuracy: Automatically positioned to the address</p>	A10NW (SE)	988	3	491953 290376
6	<p><b>Integrated Pollution Prevention And Control</b></p> <p>Name: Clean Power (Uk) Limited            Location: Corby Energy Recovery Centre, Willowbrook East Industrial Est, Shelton Road,, Corby, Northamptonshire, NN17 5XH            Authority: Environment Agency, Anglian Region            Permit Reference: DP3039ET            Original Permit Ref: Dp3039et            Effective Date: Not Supplied  <b>Status: Valid</b>            Application Type: Application            App. Sub Type: New            Positional Accuracy: Located by supplier to within 10m            Activity Code: 5.4 A(1) a) (i)            Activity Description: DISPOSAL OF &gt; 50 T/D NON-HAZARDOUS WASTE (&gt; 100 T/D IF ONLY AD) INVOLVING BIOLOGICAL TREATMENT            Primary Activity: N            Activity Code: 5.1 A(1) (A)            Activity Description: THE INCINERATION OF HAZARDOUS WASTE IN AN INCINERATION OR CO-INCINERATION PLANT WITH A CAPACITY EXCEEDING 10 TONNES PER DAY            Primary Activity: Y</p>	A13SE (S)	0	3	490910 290830
7	<p><b>Integrated Pollution Prevention And Control</b></p> <p>Name: Roquette (Corby) Limited            Location: Sallow Road Food Factory (Corby), Sallow Road, CORBY, Northamptonshire, NN17 5JX            Authority: Environment Agency, Anglian Region            Permit Reference: FP3733HV            Original Permit Ref: Bt3668ik            Effective Date: 30th September 2010  <b>Status: Effective</b>            Application Type: Variation            App. Sub Type: Standard            Positional Accuracy: Automatically positioned to the address            Activity Code: 6.8 A(1) (D) (II)            Activity Description: Animal, Vegetable &amp; Food; Treating Etc. Vegetable Raw Materials For Food Greater Than 300T/Day            Primary Activity: Y            Activity Code: 1.1 B (A)            Activity Description: Combustion; Any Fuel Greater Or Equal To 20Mw But Less Than 50Mw (Unless 1.1 A(1) B)            Primary Activity: N</p>	A9NE (SE)	747	3	491613 290334

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
7	<p><b>Integrated Pollution Prevention And Control</b></p> <p>Name: Roquette (Corby) Limited            Location: 9-11 Sallow Road, Weldon North Industrial Estate, Corby, Northamptonshire, NN17 5JX            Authority: Environment Agency, Anglian Region            Permit Reference: Bt3668ik            Original Permit Ref: Bt3668ik            Effective Date: 2nd November 2005  <b>Status: Superseded By Variation</b>            Application Type: Application            App. Sub Type: New            Positional Accuracy: Automatically positioned to the address            Activity Code: 6.8 A(1) (D) (II)            Activity Description: Animal, Vegetable &amp; Food; Treating Etc. Vegetable Raw Materials For Food Greater Than 300T/Day            Primary Activity: Y</p>	A9NE (SE)	747	3	491613 290334
8	<p><b>Integrated Pollution Prevention And Control</b></p> <p>Name: Storefield Plant Rushton Ltd            Location: Grettton Bio-Diesel, Grettton Brook Road, Earlstrees Industrial Estate, Corby, Northamptonshire, NN17 4BA            Authority: Environment Agency, Anglian Region            Permit Reference: MP3738LZ            Original Permit Ref: Mp3738lz            Effective Date: 8th September 2006  <b>Status: Effective</b>            Application Type: Application            App. Sub Type: New            Positional Accuracy: Manually positioned to the road within the address or location            Activity Code: 4.1 A(1) (A) (II)            Activity Description: Organic Chemicals; Oxygen Containing Compounds Eg Alcohols            Primary Activity: Y</p>	A16SE (NW)	979	3	489894 291378
9	<p><b>Local Authority Pollution Prevention and Controls</b></p> <p>Name: Weldon Plant Ltd            Location: Pywell Road, Willowbrook East Industrial Estate, Corby, Nn17 5xj            Authority: Corby Borough Council, Environmental Health Department            Permit Reference: P37            Dated: 25th April 2007            Process Type: Local Authority Pollution Prevention and Control            Description: PG3/16 Mobile screening and crushing processes  <b>Status: Permitted</b>            Positional Accuracy: Manually positioned to the address or location</p>	A13SE (SE)	253	4	491092 290598
10	<p><b>Local Authority Pollution Prevention and Controls</b></p> <p>Name: Benteler Automotive            Location: Baird Road, Willowbrook North Industrial Estate, Corby, NN17 5BB            Authority: Corby Borough Council, Environmental Health Department            Permit Reference: P31            Dated: 17th April 2008            Process Type: Local Authority Pollution Prevention and Control            Description: PG6/23 Coating of metal and plastic  <b>Status: Permitted</b>            Positional Accuracy: Manually positioned to the address or location</p>	A8NW (S)	267	4	490759 290467
11	<p><b>Local Authority Pollution Prevention and Controls</b></p> <p>Name: Echo Packaging            Location: Sondes Road, Willowbrook East Industrial Estate, Corby, NN17 5XL            Authority: Corby Borough Council, Environmental Health Department            Permit Reference: Not Supplied            Dated: Not Supplied            Process Type: Local Authority Pollution Prevention and Control            Description: PG6/16 Printworks  <b>Status: Permitted</b>            Positional Accuracy: Manually positioned to the road within the address or location</p>	A14SW (SE)	305	4	491333 290680
12	<p><b>Local Authority Pollution Prevention and Controls</b></p> <p>Name: Corby Polymex Ltd            Location: Sondes Road, Willowbrook Industrial Estate, Corby, Nn17 5xl            Authority: Corby Borough Council, Environmental Health Department            Permit Reference: P33            Dated: 17th April 2008            Process Type: Local Authority Pollution Prevention and Control            Description: PG6/17 Printing of flexible packaging  <b>Status: Permitted</b>            Positional Accuracy: Manually positioned to the address or location</p>	A14SW (SE)	320	4	491279 290612

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
13	<p><b>Local Authority Pollution Prevention and Controls</b></p> <p>Name: Ccfs (2) Limited 1, 3 &amp; 4            Location: Baird Road, Willowbrook North Industrial Estate, Corby, Northamptonshire, NN17 5AE            Authority: Corby Borough Council, Environmental Health Department            Permit Reference: P9/4            Dated: 10th September 1996            Process Type: Local Authority Air Pollution Control            Description: PG6/34 Respraying of road vehicles  <b>Status: Authorised</b>            Positional Accuracy: Manually positioned to the address or location</p>	A7NE (SW)	435	4	490494 290393
14	<p><b>Local Authority Pollution Prevention and Controls</b></p> <p>Name: Fairline Boats Plc            Location: Sallow Road, Weldon Industrial Estate, Corby, Nn17 1jx            Authority: Corby Borough Council, Environmental Health Department            Permit Reference: P19/2            Dated: 28th October 1998            Process Type: Local Authority Air Pollution Control            Description: PG4/2 Processes for the manufacture of fibre reinforced plastics  <b>Status: Authorised</b>            Positional Accuracy: Manually positioned to the address or location</p>	A9NW (SE)	578	4	491479 290440
14	<p><b>Local Authority Pollution Prevention and Controls</b></p> <p>Name: Fairline Boats Plc            Location: Sallow Road, Weldon Industrial Estate, Corby, Nn17 1jx            Authority: Corby Borough Council, Environmental Health Department            Permit Reference: P22            Dated: 28th October 1998            Process Type: Local Authority Air Pollution Control            Description: PG6/33 Wood coating  <b>Status: Authorised</b>            Positional Accuracy: Manually positioned to the address or location</p>	A9NW (SE)	578	4	491479 290440
15	<p><b>Local Authority Pollution Prevention and Controls</b></p> <p>Name: Roquette Abr            Location: Sallow Road, Weldon, CORBY, NN17 5JX            Authority: Corby Borough Council, Environmental Health Department            Permit Reference: P1(Es/Ww/Epa/030vr)            Dated: 10th June 1999            Process Type: Local Authority Air Pollution Control            Description: PG1/4 Gas turbines, 20-50 MW net rated thermal input  <b>Status: Authorised</b>            Positional Accuracy: Manually positioned to the road within the address or location</p>	A9NW (SE)	652	4	491487 290352
16	<p><b>Local Authority Pollution Prevention and Controls</b></p> <p>Name: A B R Foods Ltd            Location: 11 Sallow Road, Weldon North Industrial Estate, CORBY, Northamptonshire, NN17 5JX            Authority: Corby Borough Council, Environmental Health Department            Permit Reference: ES/EPA/wmw/030            Dated: 21st June 1998            Process Type: Local Authority Air Pollution Control            Description: Part B - General Fuel and Power Process (No Specific Reference)  <b>Status: Authorisation has varied</b>            Positional Accuracy: Manually positioned to the address or location</p>	A9NW (SE)	700	4	491446 290269
17	<p><b>Local Authority Pollution Prevention and Controls</b></p> <p>Name: Eurofleet            Location: Arwright Road, Corby, NN17 5AE            Authority: Corby Borough Council, Environmental Health Department            Permit Reference: Not Supplied            Dated: 20th March 2001            Process Type: Local Authority Air Pollution Control            Description: PG6/34 Respraying of road vehicles  <b>Status: Authorised</b>            Positional Accuracy: Manually positioned to the road within the address or location</p>	A7NW (SW)	703	4	490225 290283
18	<p><b>Local Authority Pollution Prevention and Controls</b></p> <p>Name: Corus            Location: Corby Works, PO Box 101, Weldon Road, CORBY, Northamptonshire, NN17 5UA            Authority: Corby Borough Council, Environmental Health Department            Permit Reference: Es/Epa/Dj/021            Dated: 12th December 1995            Process Type: Local Authority Air Pollution Control            Description: PG6/42 Bitumen and tar processes  <b>Status: Authorised</b>            Positional Accuracy: Manually positioned to the address or location</p>	A8SE (S)	800	4	490997 289969

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
18	<p><b>Local Authority Pollution Prevention and Controls</b></p> <p>Name: Corus            Location: Corby Works, PO Box 101, Weldon Road, CORBY, Northamptonshire, NN17 5UA            Authority: Corby Borough Council, Environmental Health Department            Permit Reference: Es/Epa/Dj/017            Dated: 24th April 1994            Process Type: Local Authority Air Pollution Control            Description: PG6/23 Coating of metal and plastic  <b>Status: Authorised</b>            Positional Accuracy: Manually positioned to the address or location</p>	A8SE (S)	800	4	490997 289969
18	<p><b>Local Authority Pollution Prevention and Controls</b></p> <p>Name: Corus            Location: Corby Works, PO Box 101, Weldon Road, CORBY, Northamptonshire, NN17 5UA            Authority: Corby Borough Council, Environmental Health Department            Permit Reference: Es/Epa/Dj/014            Dated: 8th October 1993            Process Type: Local Authority Air Pollution Control            Description: PG2/2 Hot dip galvanising processes  <b>Status: Authorised</b>            Positional Accuracy: Manually positioned to the address or location</p>	A8SE (S)	800	4	490997 289969
19	<p><b>Local Authority Pollution Prevention and Controls</b></p> <p>Name: The Concrete Company            Location: Davey Road, CORBY, Northamptonshire, NN18 5XX            Authority: Corby Borough Council, Environmental Health Department            Permit Reference: P4/2            Dated: 3rd September 1998            Process Type: Local Authority Air Pollution Control            Description: PG3/1 Blending, packing, loading and use of bulk cement  <b>Status: Authorised</b>            Positional Accuracy: Manually positioned to the address or location</p>	A7SE (SW)	961	4	490396 289846
20	<p><b>Local Authority Pollution Prevention and Controls</b></p> <p>Name: Roquette (Corby) Ltd            Location: Lammass Road, Weldon Industrial Estate, CORBY, Northamptonshire, NN17 5EX            Authority: Corby Borough Council, Environmental Health Department            Permit Reference: AF0733            Dated: 1st April 1992            Process Type: Application under SI 318, 1989 The Control of Industrial Air Pollution (Registration of Works) Regulations 1989            Description: Processes registered under S. 9 of the Alkali Act 1906 and S. 5 of the Health &amp; Safety at Work Act 1974  <b>Status: Authorisation revoked</b>            Positional Accuracy: Automatically positioned to the address</p>	A10NW (SE)	991	4	491953 290371
	<b>Nearest Surface Water Feature</b>	A13NE (NE)	8	-	491052 290969
21	<p><b>Pollution Incidents to Controlled Waters</b></p> <p>Property Type: Not Given            Location: Kettering District            Authority: Environment Agency, Anglian Region            Pollutant: Unknown            Note: Ground            Incident Date: 19th June 1992            Incident Reference: 1374            Catchment Area: Not Given            Receiving Water: Groundwater            Cause of Incident: Unknown            Incident Severity: Category 3 - Minor Incident            Positional Accuracy: Located by supplier to within 100m</p>	A12NW (W)	733	3	490001 291001
22	<p><b>Pollution Incidents to Controlled Waters</b></p> <p>Property Type: Not Given            Location: Kettering District            Authority: Environment Agency, Anglian Region            Pollutant: Unknown            Note: Gretton Brook            Incident Date: 7th July 1993            Incident Reference: 1715            Catchment Area: Not Given            Receiving Water: Freshwater Stream/River            Cause of Incident: Unknown            Incident Severity: Category 2 - Significant Incident            Positional Accuracy: Located by supplier to within 100m</p>	A17SE (NW)	773	3	490300 291500

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
23	<b>Pollution Incidents to Controlled Waters</b> Property Type: Water Company Sewage: Foul Sewer Location: Kettering District Authority: Environment Agency, Anglian Region Pollutant: Crude Sewage Note: Bugbrooke Brook Incident Date: 22nd March 1998 Incident Reference: 3303 Catchment Area: Not Given Receiving Water: Freshwater Stream/River Cause of Incident: Blocked Sewer Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A7NW (SW)	777	3	490200 290200
24	<b>Pollution Incidents to Controlled Waters</b> Property Type: Not Given Location: Kettering District Authority: Environment Agency, Anglian Region Pollutant: Unknown Note: Willoe Bk; Northern Stream Incident Date: 23rd January 1993 Incident Reference: 1543 Catchment Area: Not Given Receiving Water: Freshwater Stream/River Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A19SE (NE)	829	3	491700 291500
25	<b>Pollution Incidents to Controlled Waters</b> Property Type: Food industry Location: Kettering District Authority: Environment Agency, Anglian Region Pollutant: Organic Wastes: Milk Note: Willow Bk; Northern Stream Incident Date: 24th July 1995 Incident Reference: 2420 Catchment Area: Not Given Receiving Water: Freshwater Stream/River Cause of Incident: Leaking Tank Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A7NW (SW)	833	3	490001 290401
26	<b>Prosecutions Relating to Authorised Processes</b> Location: Land At Weldon Lodge, Gretton Road, Corby Prosecution Text: Dumping piles of vehicle bumpers on land without a WML Prosecution Act: Epa90 S33 Hearing Date: 1st August 2009 Verdict: Guilty Fine: 0 Costs: 500 Positional Accuracy: Manually positioned to the address or location	A19SE (NE)	739	3	491744 291258
26	<b>Prosecutions Relating to Authorised Processes</b> Location: Weldon Lodge, Gretton Road, Corby Prosecution Text: Storing waste and tyres on land without a WML Prosecution Act: Epa90 S34(1)(B) & (6) Hearing Date: 1st February 2009 Verdict: Guilty Fine: 2000 Costs: 3869 Positional Accuracy: Manually positioned within the geographical locality	A19SE (NE)	772	3	491768 291286
	<b>River Quality</b> Name: Northern Strm GQA Grade: River Quality F Reach: Headwaters...Deene Lake (3) Estimated Distance (km): 2 Flow Rate: Flow less than 0.31 cumecs Flow Type: River Year: 2000	A13NW (NW)	0	3	490885 290893
	<b>River Quality</b> Name: Northern Strm GQA Grade: River Quality C Reach: Headwaters...Deene Lake (2) Estimated Distance (km): 1.5 Flow Rate: Flow less than 0.31 cumecs Flow Type: River Year: 2000	A12SE (W)	369	3	490369 290732

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
27	<b>Substantiated Pollution Incident Register</b> Authority: Environment Agency - Anglian Region, Northern Area Incident Date: 20th March 2012 Incident Reference: 972082 Water Impact: Category 2 - Significant Incident Air Impact: Category 3 - Minor Incident Land Impact: Category 4 - No Impact Positional Accuracy: Located by supplier to within 10m Pollutant: Organic Chemicals : Adhesives / Sealants	A13SE (SE)	90	3	491092 290775
28	<b>Substantiated Pollution Incident Register</b> Authority: Environment Agency - Anglian Region, Northern Area Incident Date: 8th May 2008 Incident Reference: 586747 Water Impact: Category 4 - No Impact Air Impact: Category 3 - Minor Incident Land Impact: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 10m Pollutant: Atmospheric Pollutants And Effects: Smoke Pollutant: General Biodegradable : Other Pollutant: Inert : Construction / Demolition Material Pollutant: Oils - Unknown Pollutant: Specific Waste Materials: Tyres Pollutant: Specific Waste Materials: Vehicles And Vehicle Parts	A14NE (E)	577	3	491656 291039
29	<b>Substantiated Pollution Incident Register</b> Authority: Environment Agency - Anglian Region, Northern Area Incident Date: 21st August 2003 Incident Reference: 184025 Water Impact: Category 2 - Significant Incident Air Impact: Category 4 - No Impact Land Impact: Category 4 - No Impact Positional Accuracy: Located by supplier to within 10m Pollutant: General Biodegradable Materials And Wastes: Food And Drink	A7NW (SW)	777	3	490027 290484
	<b>Water Abstractions</b> Operator: British Steel Corporation Licence Number: 5/32/08/*s/033 Permit Version: Not Supplied Location: Willow Brook, Weldon Grange, WELDON Authority: Environment Agency, Anglian Region Abstraction: Cooling Abstraction Type: Not Supplied Source: Stream Daily Rate (m3): 70 Yearly Rate (m3): 345000 Details: Status: Revoked Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Manually corrected supplier location	(S)	1865	3	491100 288900
	<b>Groundwater Vulnerability</b> Soil Classification: Soils of High Leaching Potential (U) - Soil information for restored mineral workings and urban areas is based on fewer observations than elsewhere. A worst case vulnerability classification (H) assumed, until proved otherwise Map Sheet: Sheet 24 North Northamptonshire Scale: 1:100,000	A13NW (NE)	0	3	490908 290856
	<b>Drift Deposits</b> None				
	<b>Bedrock Aquifer Designations</b> Aquifer Designation: Secondary Aquifer - A	A13NW (NE)	0	2	490908 290856
	<b>Superficial Aquifer Designations</b> No Data Available				
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NW (NW)	8	3	490872 290941
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NE (NE)	24	3	491078 290987
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NW (NW)	51	3	490805 290939

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NE (NE)	108	3	491132 291052
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NW (W)	115	3	490603 290862
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NE (NE)	118	3	491131 291065
	<b>Flooding from Rivers or Sea without Defences</b> Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NW (NW)	8	3	490872 290941
	<b>Flooding from Rivers or Sea without Defences</b> Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NE (NE)	24	3	491078 290987
	<b>Flooding from Rivers or Sea without Defences</b> Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NW (NW)	51	3	490805 290939
	<b>Flooding from Rivers or Sea without Defences</b> Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NE (NE)	108	3	491132 291052
	<b>Flooding from Rivers or Sea without Defences</b> Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NW (W)	115	3	490603 290862
	<b>Flooding from Rivers or Sea without Defences</b> Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NE (NE)	118	3	491133 291063
	<b>Areas Benefiting from Flood Defences</b> None				
	<b>Flood Water Storage Areas</b> None				
	<b>Flood Defences</b> None				
30	<b>Detailed River Network Lines</b> River Type: Primary River River Name: Not Supplied Hydrographic Area: D005 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Flood Risk Management Indicative/Statutory Main River Management Status: Water Course: Willow Brook North Name: Water Course: 5501 Reference:	A13NE (NE)	9	3	491032 290969
31	<b>Detailed River Network Lines</b> River Type: Tertiary River River Name: Drain Hydrographic Area: D005 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Currently Undefined Flood Risk: Flood Risk Management Indicative/Statutory Main River Management Status: Water Course: Willow Brook North Name: Water Course: 5501 Reference:	A13NW (NW)	16	3	490872 290941

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
32	<b>Detailed River Network Lines</b> River Type: Tertiary River River Name: Drain Hydrographic Area: D005 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Currently Undefined Flood Risk: Flood Risk Management Indicative/Statutory Main River Management Status: Water Course: Willow Brook North Name: Water Course: 5501 Reference:	A13NW (NW)	28	3	490816 290916
33	<b>Detailed River Network Lines</b> River Type: Tertiary River River Name: Drain Hydrographic Area: D005 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Drain (ditch, Reen, Rhyne, Drain) Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A13NW (NW)	31	3	490816 290916
34	<b>Detailed River Network Lines</b> River Type: Primary River River Name: Not Supplied Hydrographic Area: D005 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Flood Risk Management Indicative/Statutory Main River Management Status: Water Course: Willow Brook North Name: Water Course: 5501 Reference:	A12SE (W)	201	3	490520 290822
35	<b>Detailed River Network Offline Drainage</b> River Type: Tertiary River Hydrographic Area: D005	A13NW (N)	171	3	490882 291090
36	<b>Detailed River Network Offline Drainage</b> River Type: Tertiary River Hydrographic Area: D005	A12NE (W)	384	3	490337 290897
37	<b>Detailed River Network Offline Drainage</b> River Type: Secondary River Hydrographic Area: D005	A14NW (NE)	397	3	491439 291102
38	<b>Detailed River Network Offline Drainage</b> River Type: Tertiary River Hydrographic Area: D005	A12NE (W)	455	3	490263 290852



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
39	<b>BGS Recorded Landfill Sites</b> Site Name: British Steel Corp Location: Grettton Brook Road, Deene, CORBY, Northamptonshire Authority: British Geological Survey, National Geoscience Information Service Ground Water: No threat to ground water Surface Water: No threat to surface water Geology: N/A Positional Accuracy: Positioned by the supplier Boundary Accuracy: Moderate	A13NW (NW)	20	-	490869 290950
40	<b>Historical Landfill Sites</b> Licence Holder: British Steel Corporation Location: Grettton Brook Road, Deene, Corby, Northamptonshire Name: British Steel Corporation Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD31130 First Input Date: 31st December 1950 Last Input Date: 28th February 1986 Specified Waste Type: Deposited Waste included Inert and Industrial Waste EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 2800/0080 BGS Ref: 469 Other Ref: C/004	A13NW (NW)	20	3	490869 290950
41	<b>Historical Landfill Sites</b> Licence Holder: BSC Corby Location: Corby, Northamptonshire Name: Candy Filter Sludge Ponds Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD02019 First Input Date: 1st March 1984 Last Input Date: Not Supplied Specified Waste Type: Deposited Waste included Special Waste and Liquid Sludge EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 2800/0081 BGS Ref: Not Supplied Other Ref: C/77/003	A13NW (NW)	56	3	490801 290940
42	<b>Historical Landfill Sites</b> Licence Holder: BSC Corby Location: Corby, Northamptonshire Name: Candy Filter Sludge Ponds Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD02018 First Input Date: 1st March 1984 Last Input Date: Not Supplied Specified Waste Type: Deposited Waste included Special Waste and Liquid Sludge EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 2800/0081 BGS Ref: Not Supplied Other Ref: C/77/003	A13NW (W)	121	3	490598 290867
43	<b>Historical Landfill Sites</b> Licence Holder: BSC Corby Location: Corby, Northamptonshire Name: Candy Filter Sludge Ponds Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD02017 First Input Date: 1st March 1984 Last Input Date: Not Supplied Specified Waste Type: Deposited Waste included Special Waste and Liquid Sludge EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 2800/0081 BGS Ref: Not Supplied Other Ref: C/77/003	A12SE (W)	270	3	490449 290830

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
44	<b>Historical Landfill Sites</b> Licence Holder: BSC Corby Location: Corby, Northamptonshire Name: Candy Filter Sludge Ponds Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD02021 First Input Date: 1st March 1984 Last Input Date: Not Supplied Specified Waste: Deposited Waste included Special Waste and Liquid Sludge Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 2800/0081 BGS Ref: Not Supplied Other Ref: C/77/003	A12SE (W)	452	3	490325 290615
45	<b>Historical Landfill Sites</b> Licence Holder: BSC Corby Location: Off Gretton Brook Road, Corby, Northamptonshire Name: Candy Filter Sludge Ponds Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD02030 First Input Date: 1st March 1984 Last Input Date: Not Supplied Specified Waste: Deposited Waste included Special Waste and Liquid Sludge Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 2800/0081 BGS Ref: Not Supplied Other Ref: C3E, C20, C3C, C3d, C/77/003	A18SW (NW)	472	3	490598 291309
46	<b>Historical Landfill Sites</b> Licence Holder: British Steel Corporation Location: Gretton Road Name: Refractory Tip Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD02031 First Input Date: 31st December 1980 Last Input Date: 28th February 1986 Specified Waste: Deposited Waste included Inert and Industrial Waste Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 2800/0080 BGS Ref: Not Supplied Other Ref: C/004	A18SW (NW)	524	3	490638 291378
47	<b>Historical Landfill Sites</b> Licence Holder: British Steel Corporation Location: Birchington Road Name: North East Materials Stockyard Operator Location: Tubes Division, Po Box 101, Weldon Road, Corby Boundary Accuracy: As Supplied Provider Reference: EAHLD02022 First Input Date: 27th January 1987 Last Input Date: 31st December 1990 Specified Waste: Deposited Waste included Inert Waste and Liquid Sludge Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 2800/0067 BGS Ref: Not Supplied Other Ref: C4a, C/021	A14SE (E)	546	3	491633 290741
48	<b>Historical Landfill Sites</b> Licence Holder: BSC Corby Location: Corby, Northamptonshire Name: Candy Filter Sludge Ponds Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD02016 First Input Date: 1st March 1984 Last Input Date: Not Supplied Specified Waste: Deposited Waste included Inert and Special Waste, and Liquid Sludge Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 2800/0081 BGS Ref: Not Supplied Other Ref: C/77/003	A12SW (W)	548	3	490185 290724

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
49	<b>Historical Landfill Sites</b> Licence Holder: British Steel Corporation Location: Gretton Road West Name: Refractory Tip Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHL02023 First Input Date: 31st December 1980 Last Input Date: 28th February 1986 Specified Waste: Deposited Waste included Inert and Industrial Waste, and Liquid Sludge Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 2800/0080 BGS Ref: Not Supplied Other Ref: C/004	A14SE (E)	548	3	491633 290741
50	<b>Historical Landfill Sites</b> Licence Holder: British Steel Corporation Location: North Bank Of North Brook, Lagoon Site, Corby Name: BSC North Brook Lagoons Operator Location: Tubes Division, Po Box 101, Weldon Road, Corby Boundary Accuracy: As Supplied Provider Reference: EAHL02020 First Input Date: 31st December 1984 Last Input Date: Not Supplied Specified Waste: Deposited Waste included Industrial and Special Waste, and Liquid Sludge Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 2800/0061 BGS Ref: Not Supplied Other Ref: C/018	A12NW (W)	628	3	490118 291041
51	<b>Historical Landfill Sites</b> Licence Holder: Midland Oak Location: Steel Road, Weldon Name: Railway Cutting Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHL02024 First Input Date: 31st December 1980 Last Input Date: 31st December 1981 Specified Waste: Deposited Waste included Inert Waste Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 2800/0079 BGS Ref: Not Supplied Other Ref: C/006	A9NE (SE)	758	3	491748 290483
52	<b>Licensed Waste Management Facilities (Landfill Boundaries)</b> Name: North Brook Landfill Site Licence Number: 70559 Location: British Steel Corporation, North Bank Of North Brook, Corby, Northants, NN17 4AP Licence Holder: Tata Steel Uk Ltd Authority: Environment Agency - Anglian Region, Northern Area Site Category: Industrial Waste Landfills Max Input Rate: Not Supplied <b>Licence Status: Closure</b> Issued: Not Supplied Positional Accuracy: Positioned by the supplier Boundary Accuracy: As Supplied	A13NW (N)	0	3	490897 290920
53	<b>Licensed Waste Management Facilities (Landfill Boundaries)</b> Name: C D C Deene Quarry Licence Number: 70561 Location: Corby Borough Council, Deene Quarry, Corby, Northants, NN17 3AS Licence Holder: Corby Borough Council Authority: Environment Agency - Anglian Region, Northern Area Site Category: Household, Commercial And Industrial Waste Landfills Max Input Rate: Not Supplied <b>Licence Status: Closure</b> Issued: Not Supplied Positional Accuracy: Positioned by the supplier Boundary Accuracy: As Supplied	A13NW (N)	179	3	490870 291095

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
54	<b>Licensed Waste Management Facilities (Locations)</b> Licence Number: 103555 Location: Corby Metal Recycling, Arkwright Road, Corby, Northamptonshire, NN17 5AE Operator Name: Peterborough Metal Recycling Ltd Operator Location: Not Supplied Authority: Environment Agency - Anglian Region, Northern Area Site Category: Metal Recycling Sites (Mixed) <b>Licence Status: Issued</b> Issued: 28th March 2012 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A7NE (SW)	504	3	490379 290409
55	<b>Licensed Waste Management Facilities (Locations)</b> Licence Number: 70561 Location: Deene Quarry, Corby, Northamptonshire, NN17 3AS Operator Name: Corby Borough Council Operator Location: Not Supplied Authority: Environment Agency - Anglian Region, Northern Area Site Category: Household, Commercial And Industrial Waste Landfills <b>Licence Status: Closed</b> Issued: 9th April 1987 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 100m	A18SE (N)	538	3	491000 291500
56	<b>Licensed Waste Management Facilities (Locations)</b> Licence Number: 70559 Location: North Bank Of North Brook, Corby, Northamptonshire, NN17 4AP Operator Name: Tata Steel Uk Ltd Operator Location: Not Supplied Authority: Environment Agency - Anglian Region, Northern Area Site Category: Industrial Waste Landfills <b>Licence Status: Closed</b> Issued: 30th November 1984 Last Modified: 13th March 2009 Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 100m	A12SW (W)	636	3	490100 290700
57	<b>Licensed Waste Management Facilities (Locations)</b> Licence Number: 70560 Location: North Bank Of North Brook (lagoons), Steel Road, Corby, Northamptonshire, NN17 5ZN Operator Name: Corus U K Ltd Operator Location: Not Supplied Authority: Environment Agency - Anglian Region, Northern Area Site Category: Lagoons <b>Licence Status: Surrendered</b> Issued: 12th December 1984 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: 9th November 2010 IPPC Reference: Not Supplied Positional Accuracy: Approximate location provided by supplier	A12NW (W)	734	3	490000 291000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
58	<b>Licensed Waste Management Facilities (Locations)</b> Licence Number: 104300 Location: Unit 6b, Sallow Road, Weldon North Ind Est, Corby, Northants, NN17 5JX Operator Name: Nix Andrew Brian Operator Location: Not Supplied Authority: Environment Agency - Anglian Region, Northern Area Site Category: Vehicle Depollution Facility <5000 tps <b>Licence Status: Modified</b> Issued: 13th June 2012 Last Modified: 19th January 2015 Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A9NW (SE)	778	3	491515 290219
59	<b>Licensed Waste Management Facilities (Locations)</b> Licence Number: 73057 Location: Darwin Road, Corby, Northamptonshire, NN17 5XZ Operator Name: Envirotank ( Corby ) Ltd Operator Location: Not Supplied Authority: Environment Agency - Anglian Region, Northern Area Site Category: Physico-chemical Treatment Facilities <b>Licence Status: Expired</b> Issued: 4th February 1993 Last Modified: Not Supplied Expires: 1st April 1993 Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 100m	A7SE (SW)	780	3	490500 290000
60	<b>Licensed Waste Management Facilities (Locations)</b> Licence Number: 73044 Location: Princewood Road, Corby, Northamptonshire, NN17 4AP Operator Name: Northampton County Council Operator Location: Not Supplied Authority: Environment Agency - Anglian Region, Northern Area Site Category: Landfills Taking Non-biodegradable Wastes (Not Construction) <b>Licence Status: Closed</b> Issued: 4th December 1992 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 100m	A11NE (W)	920	3	489800 290900
61	<b>Licensed Waste Management Facilities (Locations)</b> Licence Number: 100383 Location: 1 Hunters Road, Weldon North Ind Est, Corby, Northamptonshire, NN17 5JE Operator Name: Murfitts Industries Ltd Operator Location: Not Supplied Authority: Environment Agency - Anglian Region, Northern Area Site Category: Household, Commercial And Industrial Transfer Stations <b>Licence Status: Issued</b> Issued: 30th June 2009 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A9SE (SE)	944	3	491690 290140
62	<b>Licensed Waste Management Facilities (Locations)</b> Licence Number: 73016 Location: Mitchell Road, Corby, Northamptonshire, NN17 5AF Operator Name: Universal Salvage Plc Operator Location: Not Supplied Authority: Environment Agency - Anglian Region, Northern Area Site Category: Metal Recycling Sites (Vehicle Dismantlers) <b>Licence Status: Surrendered</b> Issued: 29th December 1999 Last Modified: 3rd December 2003 Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: 6th February 2006 IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 100m	A16SE (W)	983	3	489800 291200

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>Local Authority Landfill Coverage</b> Name: Northamptonshire County Council - Has supplied landfill data		0	9	490908 290856
	<b>Local Authority Landfill Coverage</b> Name: Corby Borough Council - Has no landfill data to supply		0	6	490908 290856
	<b>Local Authority Landfill Coverage</b> Name: East Northamptonshire District Council - Landfill data has been supplied by another authority		0	8	490890 290877
63	<b>Registered Landfill Sites</b> Licence Holder: Corus U K Ltd T/A Corus Tubes Licence Reference: C/017 Site Location: Bsc Landfill Site, North Bank Of Northbrook, Corby, Northamptonshire Licence Easting: Not Supplied Licence Northing: Not Supplied Operator Location: Po Box 10, Weldon Road, Corby, Northamptonshire, Nn17 1gd Authority: Environment Agency - Anglian Region, Northern Area Site Category: Landfill Max Input Rate: Small (Equal to or greater than 10,000 and less than 25,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Status: Operational as far as is knownOperational Dated: 30th November 1984 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Positioned by the supplier Boundary Accuracy: Good Authorised Waste: Max.Waste Permitted By Licence Northamptonshire Category C * Northamptonshire Category D Northants/Lincs Category A * Northants/Lincs Category B * Prohibited Waste: Asbestos Carcasses And Flesh Household Waste Special Wastes	A12SE (W)	268	3	490451 290833
64	<b>Registered Landfill Sites</b> Licence Holder: Corby D.C. Licence Reference: C/020 Site Location: Deene Quarry, Gretton Brook Road, Corby, Northamptonshire Licence Easting: 490800 Licence Northing: 291400 Operator Location: Civic Centre, George Street, Corby, Northamptonshire Authority: Environment Agency - Anglian Region, Northern Area Site Category: Landfill Max Input Rate: Large (Equal to or greater than 75,000 and less than 250,000 tonnes per year) Waste Source: Waste produced/controlled by licence holder Restrictions: Status: Site Closed Dated: 1st May 1996 Preceded By: C/020 Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste: Contaminated Material Max.Waste Permitted By Licence Northants Cat. A1 -Solid Inert (Soils) Prohibited Waste: Waste N.O.S.	A18SW (N)	492	3	490800 291400

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
64	<p><b>Registered Landfill Sites</b></p> <p>Licence Holder: Corby D.C.            Licence Reference: C/020            Site Location: Deene Quarry, Gretton Brook Road, Corby, Northamptonshire            Licence Easting: 490800            Licence Northing: 291400            Operator Location: Civic Centre, George Street, Corby, Northamptonshire            Authority: Environment Agency - Anglian Region, Northern Area            Site Category: Landfill            Max Input Rate: Medium (Equal to or greater than 25,000 and less than 75,000 tonnes per year)            Waste Source: Waste produced/controlled by licence holder            Restrictions:            Status: Record supersededSuperseded            Dated: 1st October 1992            Preceded By: C/020            Licence:            Superseded By: C/020            Licence:            Positional Accuracy: Manually positioned to the address or location            Boundary Accuracy: Not Applicable            Authorised Waste: Max.Waste Permitted By Licence            Northants Cat. A1 -Solid Inert (Soils)            Prohibited Waste: Waste N.O.S.</p>	A18SW (N)	492	3	490800 291400
64	<p><b>Registered Landfill Sites</b></p> <p>Licence Holder: Corby D.C.            Licence Reference: C/020            Site Location: Deene Quarry, Gretton Brook Road, Corby, Northamptonshire            Licence Easting: 490800            Licence Northing: 291400            Operator Location: Civic Centre, George Street, Corby, Northamptonshire            Authority: Environment Agency - Anglian Region, Northern Area            Site Category: Landfill            Max Input Rate: Undefined            Waste Source: Waste produced/controlled by licence holder            Restrictions:            Status: Record supersededSuperseded            Dated: 9th April 1987            Preceded By: Not Given            Licence:            Superseded By: C/020            Licence:            Positional Accuracy: Manually positioned to the address or location            Boundary Accuracy: Not Applicable            Authorised Waste: Contam'D Mat'L Ex Deene By-Prod. Plant            Contaminated Mat'L Ex Toxic Ponds Area            Northants Cat. A - Ex Steel-Works Only            Prohibited Waste: Aqueous Waste            Oil Waste</p>	A18SW (N)	492	3	490800 291400
65	<p><b>Registered Landfill Sites</b></p> <p>Licence Holder: British Steel            Licence Reference: C/004            Site Location: Dry Tip (Rail Haulage) &amp; Refractory Tip, Corby Works, Corby, Northamptonshire            Licence Easting: Not Supplied            Licence Northing: Not Supplied            Operator Location: Corby Works, Weldon Road, CORBY, Northamptonshire, NN17 1NA            Authority: Environment Agency - Anglian Region, Northern Area            Site Category: Landfill            Max Input Rate: Undefined            Waste Source: No known restriction on source of waste            Restrictions:            Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled            Dated: 4th June 1980            Preceded By: Not Given            Licence:            Superseded By: Not Given            Licence:            Positional Accuracy: Positioned by the supplier            Boundary Accuracy: Moderate            Authorised Waste: Construction And Demolition Wastes            Excavated Natural Materials \$            Hardcore And Rubble            Refractory Waste At Refractory Tip</p>	A17SE (NW)	592	3	490542 291416

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
66	<b>Registered Landfill Sites</b> Licence Holder: British Steel Corp. Tubes Div. Licence Reference: C/021 Site Location: Birchington Road, Weldon (North) Industrial Estate, Corby, Northamptonshire Licence Easting: 491800 Licence Northing: 290700 Operator Location: PO Box 101, Weldon Road, CORBY, Northamptonshire, NN17 1GD Authority: Environment Agency - Anglian Region, Northern Area Site Category: Landfill Max Input Rate: Undefined Waste Source: No known restriction on source of waste Restrictions: Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 1st January 1987 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste: Northants Cat. A -Sol.Inert *	A14SE (E)	721	3	491800 290700
67	<b>Registered Landfill Sites</b> Licence Holder: British Steel Licence Reference: C/004 Site Location: North East Materials Stockyard, Sludge Tip, Corby, Northamptonshire Licence Easting: Not Supplied Licence Northing: Not Supplied Operator Location: Corby Works, Weldon Road, CORBY, Northamptonshire, NN17 1NA Authority: Environment Agency - Anglian Region, Northern Area Site Category: Landfill Max Input Rate: Undefined Waste Source: No known restriction on source of waste Restrictions: Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 4th June 1980 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Positioned by the supplier Boundary Accuracy: Moderate Authorised Waste: Ex Settling Ponds	A14SE (E)	744	3	491810 290653
68	<b>Registered Landfill Sites</b> Licence Holder: British Steel Licence Reference: C/002 Site Location: Grettton Road Gulley, East Of Corby Works, Corby, Northamptonshire Licence Easting: Not Supplied Licence Northing: Not Supplied Operator Location: Corby Works, Weldon Road, CORBY, Northamptonshire, NN17 1NA Authority: Environment Agency - Anglian Region, Northern Area Site Category: Landfill Max Input Rate: Very Small (Less than 10,000 tonnes per year) Waste Source: Only waste produced on site Restrictions: Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 4th June 1980 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Positioned by the supplier Boundary Accuracy: Moderate Authorised Waste: Household + Commercial Waste Incinerator Residues Sludge Wastes Waste Ex Ferro-Manganese Process	A23SE (N)	935	3	491002 291899



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
69	<b>Registered Landfill Sites</b> Licence Holder: Northants C.C. Licence Reference: C/006 Site Location: North West Of Larratt Road, Weldon, Corby, Northamptonshire Licence Easting: 491850 Licence Northing: 290300 Operator Location: Northampton House, NORTHAMPTON, Northamptonshire, NN1 2HZ Authority: Environment Agency - Anglian Region, Northern Area Site Category: Landfill - Railway cutting Max Input Rate: Undefined Waste Source: No known restriction on source of waste Restrictions: Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 1st June 1980 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste: Northants/Lincs Cat. A -Sol.Inert *	A9NE (SE)	946	3	491850 290300
70	<b>Registered Waste Treatment or Disposal Sites</b> Licence Holder: British Steel Licence Reference: C/003 Site Location: Western Ponds, Corby Works, Corby, Northamptonshire Operator Location: Corby Works, Weldon Road, CORBY, Northamptonshire, NN17 1NA Authority: Environment Agency - Anglian Region, Northern Area Site Category: Storage - Lagoon Max Input Rate: Undefined Waste Source: Only waste produced on site Restrictions: Licence Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 4th June 1980 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Positioned by the supplier Boundary Quality: Good Authorised Waste: Aliphatic Acids \$ Aliphatic Hydrocarbons Alkali Metal Oxides/Hydroxides \$ Aromatic Hydrocarbons Chromic Acid Fats, Waxes And Greases Ferrous Sulphate Fuel Oil Kerosene And Derv. Mineral Oils Oil/Water Mixtures Paint Waste \$ Phenols, Analogues/Derivatives Proprietary Alkaline Cleaners Silt And Dredgings Sodium/Potassium Cyanides Sulphuric Acid Tank Cleaning Sludge \$ Vegetable And Other Oils Water (Contaminated)	A13NW (NW)	56	3	490800 290944
71	<b>Registered Waste Treatment or Disposal Sites</b> Licence Holder: Corus U K Ltd T/A Corus Tubes Licence Reference: C/018 Site Location: Bsc Lagoons Site, North Bank Of Northbrook, Corby, Northamptonshire Operator Location: Po Box 10, Weldon Road, Corby, Northamptonshire, Nn17 1gd Authority: Environment Agency - Anglian Region, Northern Area Site Category: Storage - Lagoon Max Input Rate: Very Small (Less than 10,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Licence Status: Operational as far as is knownOperational Dated: 12th December 1984 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Positioned by the supplier Boundary Quality: Good Authorised Waste: Liquid Wastes Prohibited Waste: Asbestos Special Wastes	A12NW (W)	579	3	490142 290899

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
72	<p><b>Registered Waste Treatment or Disposal Sites</b></p> <p>Licence Holder: British Steel  Licence Reference: C/003  Site Location: Oil Separation Tanks &amp; Pond, Corby Works, Corby, Northamptonshire  Operator Location: Corby Works, Weldon Road, CORBY, Northamptonshire, NN17 1NA  Authority: Environment Agency - Anglian Region, Northern Area  Site Category: Storage - Lagoon  Max Input Rate: Undefined  Waste Source: Only waste produced on site  Restrictions:  Licence Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled  Dated: 4th June 1980  Preceded By: Not Given  Licence:  Superseded By: Not Given  Licence:  Positional Accuracy: Manually positioned to the address or location  Boundary Quality: Not Supplied  Authorised Waste: Iron/Steel Manufacturing Wastes</p>	A12NW (W)	685	3	490050 291000
73	<p><b>Registered Waste Treatment or Disposal Sites</b></p> <p>Licence Holder: Envirotank (Corby) Ltd  Licence Reference: C/031  Site Location: Darwin Road, Corby, Northamptonshire  Operator Location: 40 Boroughgate, OTLEY, West Yorkshire, LS21 1AF  Authority: Environment Agency - Anglian Region, Northern Area  Site Category: Transfer - with treatment  Max Input Rate: Medium (Equal to or greater than 25,000 and less than 75,000 tonnes per year)  Waste Source: No known restriction on source of waste  Restrictions:  Licence Status: Site not yet started  Dated: 4th February 1993  Preceded By: Not Given  Licence:  Superseded By: Not Given  Licence:  Positional Accuracy: Manually positioned within the geographical locality  Boundary Quality: Not Supplied  Authorised Waste: Max.Storage In Licence  Max.Waste Permitted By Licence  Environment Agency Difficult Wastes (As In Wmp.26)  must give specific authorisation for this waste to be acceptedWaste requires prior approval  Northants Cat. D - Difficult Waste  Northants Cat. F - Prohibited At L/F</p>	A7SE (SW)	780	3	490500 290000
74	<p><b>Registered Waste Treatment or Disposal Sites</b></p> <p>Licence Holder: Universal Salvage Plc  Licence Reference: EAWML73016  Site Location: Mitchell Road, Phoenix Parkway, CORBY, Northamptonshire, NN17 5AF  Operator Location: Acrey Fields, Woburn Road, WOOTTON, Bedfordshire, MK43 9EJ  Authority: Environment Agency - Anglian Region, Northern Area  Site Category: Scrapyard  Max Input Rate: Small (Equal to or greater than 10,000 and less than 25,000 tonnes per year)  Waste Source: No known restriction on source of waste  Restrictions:  Licence Status: Operational as far as is knownOperational  Dated: 29th December 1999  Preceded By: Not Given  Licence:  Superseded By: Not Given  Licence:  Positional Accuracy: Positioned by the supplier  Boundary Quality: Good  Authorised Waste: Batteries  Maximum Waste Permitted By Licence  Metal Waste/Scrap Metal (As In Post'98 E.A.Lics And Equivalent To 23.00.00)  Special Fluids Waste (As In Epa 1990:S62 Of 1996 Regs)  Tyres  Prohibited Waste: Other Waste/Waste Not Otherwise Specified</p>	A17SW (NW)	957	3	489907 291358

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
75	<p><b>Control of Major Accident Hazards Sites (COMAH)</b></p> <p>Name: Starion International            Location: Unit 8, Baird Road, Willowsbrook Industrial Estate, CORBY, Northamptonshire, NN17 5JE            Reference: Not Supplied            Type: Lower Tier  <b>Status: Record Ceased To Be Supplied Under COMAH Regulations</b>            Positional Accuracy: Automatically positioned to postcode unit of the address</p>	A9NW (SE)	843	5	491579 290183
76	<p><b>Notification of Installations Handling Hazardous Substances (NIHHS)</b></p> <p>Name: Starion International            Location: Unit 8 Baird Road, Willowsbrook Ind Est, Corby, Nn17 5Je  <b>Status: Active</b>            Positional Accuracy: Manually positioned to the road within the address or location</p>	A8NW (SW)	322	5	490653 290432
77	<p><b>Notification of Installations Handling Hazardous Substances (NIHHS)</b></p> <p>Name: Station International Limited            Location: Hunters Road, Weldon North Industrial Estate, CORBY, Northamptonshire, NN17 5JE  <b>Status: Record Ceased To Be Supplied Under NIHHS Regulations (1982)</b>            Positional Accuracy: Manually positioned to the road within the address or location</p>	A9NE (SE)	924	5	491758 290228
78	<p><b>Planning Hazardous Substance Consents</b></p> <p>Name: Persil Ltd            Location: Hunters Road, Weldon, Northamptonshire, Nn17            Authority: Corby Borough Council, Planning Department            Application Ref: Co/92/C204/Hs            Hazardous Substance: Liquefied extremely flammable gas (including LPG) and natural gas (whether liquefied or not)            Maximum Quantity: 100            Application date: Not Supplied  <b>Decision: Deemed Consent Granted</b>            Positional Accuracy: Manually positioned to the road within the address or location</p>	A9SE (SE)	869	6	491596 290164

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>BGS 1:625,000 Solid Geology</b> Description: Inferior Oolite Group	A13NW (NE)	0	2	490908 290856
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 25 - 35 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13NW (NE)	0	2	490908 290856
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 25 - 35 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A13NE (E)	0	2	491000 290856
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 25 - 35 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A13NE (NE)	33	2	491000 291000
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 25 - 35 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A13NW (N)	58	2	490908 291000
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A13SE (S)	221	2	490947 290534
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A13SE (S)	268	2	491000 290543

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 45 - 60 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 120 - 180 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 30 - 45 mg/kg Concentration:	A13SE (S)	268	2	491000 290543
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 30 - 45 mg/kg Concentration:	A7NE (SW)	369	2	490569 290421
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 30 - 45 mg/kg Concentration:	A7SE (SW)	670	2	490508 290115
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 35 - 45 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 90 - 120 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 30 - 45 mg/kg Concentration:	A7SE (SW)	693	2	490471 290105
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 30 - 45 mg/kg Concentration:	A19SE (NE)	694	2	491709 291227
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 30 - 45 mg/kg Concentration:	A7SE (SW)	713	2	490467 290086

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 25 - 35 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 30 - 45 mg/kg Concentration:	A12NW (W)	718	2	490000 290856
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 25 - 35 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 30 - 45 mg/kg Concentration:	A19SE (NE)	729	2	491600 291462
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 25 - 35 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A8SE (S)	729	2	490927 290019
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 25 - 35 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 30 - 45 mg/kg Concentration:	A12NW (W)	734	2	490000 291000
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 30 - 45 mg/kg Concentration:	A8SW (S)	734	2	490831 290000
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 25 - 35 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 90 - 120 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A19SE (NE)	737	2	491598 291476

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 25 - 35 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 90 - 120 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 30 - 45 mg/kg Concentration:	A8SW (S)	737	2	490908 290000
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 30 - 45 mg/kg Concentration:	A9SW (SE)	740	2	491357 290174
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 25 - 35 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 30 - 45 mg/kg Concentration:	A8SE (S)	765	2	491000 290007
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 30 - 45 mg/kg Concentration:	A8SE (S)	771	2	491000 290000
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 30 - 45 mg/kg Concentration:	A8SE (S)	779	2	491025 290000
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 30 - 45 mg/kg Concentration:	A7SE (SW)	799	2	490449 290000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 30 - 45 mg/kg Concentration:	A19SE (NE)	811	2	491717 291450
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 25 - 35 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 90 - 120 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A19SE (NE)	819	2	491699 291485
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 35 - 45 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 90 - 120 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 30 - 45 mg/kg Concentration:	A7SE (SW)	821	2	490396 290000
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 30 - 45 mg/kg Concentration:	A19SE (NE)	840	2	491751 291452
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 25 - 35 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 30 - 45 mg/kg Concentration:	A19SE (NE)	840	2	491751 291452
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 30 - 45 mg/kg Concentration:	A7SE (SW)	866	2	490304 290000



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 25 - 35 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 90 - 120 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A19SE (NE)	891	2	491804 291465
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 30 - 45 mg/kg Concentration:	A17SW (NW)	897	2	489982 291363
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 30 - 45 mg/kg Concentration:	A15NW (E)	898	2	492000 290856
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 30 - 45 mg/kg Concentration:	A19NE (NE)	898	2	491677 291624
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 30 - 45 mg/kg Concentration:	A19NE (NE)	898	2	491677 291624
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 30 - 45 mg/kg Concentration:	A15NW (E)	907	2	492000 291000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 30 - 45 mg/kg Concentration:	A17NE (N)	917	2	490542 291766
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 35 - 45 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 90 - 120 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 30 - 45 mg/kg Concentration:	A9SW (SE)	919	2	491368 289992
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 35 - 45 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 90 - 120 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 30 - 45 mg/kg Concentration:	A9SW (SE)	921	2	491392 290000
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 30 - 45 mg/kg Concentration:	A7NW (SW)	933	2	490000 290199
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A19NE (NE)	961	2	491655 291725
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 30 - 45 mg/kg Concentration:	A17NE (NW)	961	2	490508 291800

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
79	<p><b>BGS Recorded Mineral Sites</b></p> <p>Site Name: Deene            Location: , Corby, Corby, Northamptonshire            Source: British Geological Survey, National Geoscience Information Service            Reference: 20650            Type: Opencast  <b>Status: Ceased</b>            Operator: Stewarts &amp; Lloyds Minerals Ltd            Operator Location: Stewarts &amp; Lloyds Minerals Ltd, Corby, Northamptonshire            Periodic Type: Jurassic            Geology: Northampton Sand Formation (Northampton Sand Ironstone)            Commodity: Iron Ore - Ironstone            Positional Accuracy: Located by supplier to within 100m</p>	A18SE (N)	538	2	491000 291500
80	<p><b>BGS Recorded Mineral Sites</b></p> <p>Site Name: Great Excellent Quarries            Location: , Rockingham, Corby, Northamptonshire            Source: British Geological Survey, National Geoscience Information Service            Reference: 139291            Type: Opencast  <b>Status: Ceased</b>            Operator: Unknown Operator            Operator Location: Unknown Operator            Periodic Type: Jurassic            Geology: Northampton Sand Formation            Commodity: Iron Ore - Ironstone            Positional Accuracy: Located by supplier to within 10m</p>	A12SW (W)	541	2	490186 290754
81	<p><b>BGS Recorded Mineral Sites</b></p> <p>Site Name: Short Leys            Location: , Corby, Corby, Northamptonshire            Source: British Geological Survey, National Geoscience Information Service            Reference: 20652            Type: Opencast  <b>Status: Ceased</b>            Operator: Lloyds Ironstone Co            Operator Location: Lloyds Ironstone Co            Periodic Type: Jurassic            Geology: Northampton Sand Formation (Northampton Sand Ironstone)            Commodity: Iron Ore - Ironstone            Positional Accuracy: Located by supplier to within 100m</p>	A14SE (E)	604	2	491700 290800
82	<p><b>BGS Recorded Mineral Sites</b></p> <p>Site Name: Great Excellent Quarries            Location: , Rockingham, Corby, Northamptonshire            Source: British Geological Survey, National Geoscience Information Service            Reference: 139289            Type: Opencast  <b>Status: Ceased</b>            Operator: Unknown Operator            Operator Location: Unknown Operator            Periodic Type: Jurassic            Geology: Northampton Sand Formation            Commodity: Iron Ore - Ironstone            Positional Accuracy: Located by supplier to within 10m</p>	A12SW (W)	645	2	490103 290656
83	<p><b>BGS Recorded Mineral Sites</b></p> <p>Site Name: Great Excellent Quarries            Location: , Rockingham, Corby, Northamptonshire            Source: British Geological Survey, National Geoscience Information Service            Reference: 139292            Type: Opencast  <b>Status: Ceased</b>            Operator: Unknown Operator            Operator Location: Unknown Operator            Periodic Type: Jurassic            Geology: Northampton Sand Formation            Commodity: Iron Ore - Ironstone            Positional Accuracy: Located by supplier to within 10m</p>	A12SW (W)	678	2	490060 290688
84	<p><b>BGS Recorded Mineral Sites</b></p> <p>Site Name: Great Excellent Quarries            Location: , Rockingham, Corby, Northamptonshire            Source: British Geological Survey, National Geoscience Information Service            Reference: 139288            Type: Opencast  <b>Status: Ceased</b>            Operator: Unknown Operator            Operator Location: Unknown Operator            Periodic Type: Jurassic            Geology: Northampton Sand Formation            Commodity: Iron Ore - Ironstone            Positional Accuracy: Located by supplier to within 10m</p>	A12SW (W)	868	2	489910 290535

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
85	<p><b>BGS Recorded Mineral Sites</b></p> <p>Site Name: Great Excellent Quarries            Location: , Rockingham, Corby, Northamptonshire            Source: British Geological Survey, National Geoscience Information Service            Reference: 139287            Type: Opencast  <b>Status: Ceased</b>            Operator: Unknown Operator            Operator Location: Unknown Operator            Periodic Type: Jurassic            Geology: Northampton Sand Formation            Commodity: Iron Ore - Ironstone            Positional Accuracy: Located by supplier to within 10m</p>	A6NE (W)	979	2	489813 290478
	<p><b>BGS Measured Urban Soil Chemistry</b></p> <p>Source: British Geological Survey, National Geoscience Information Service            Grid: 490820, 290660            Soil Sample Type: Topsoil            Sample Area: Corby            Arsenic Measured 21.00 mg/kg            Concentration:            Cadmium Measured 0.30 mg/kg            Concentration:            Chromium Measured 66.00 mg/kg            Concentration:            Lead Measured 159.00 mg/kg            Concentration:            Nickel Measured 25.00 mg/kg            Concentration:</p>	A13SW (SW)	90	2	490820 290660
	<p><b>BGS Measured Urban Soil Chemistry</b></p> <p>Source: British Geological Survey, National Geoscience Information Service            Grid: 491270, 290680            Soil Sample Type: Topsoil            Sample Area: Corby            Arsenic Measured 64.00 mg/kg            Concentration:            Cadmium Measured 0.30 mg/kg            Concentration:            Chromium Measured 233.00 mg/kg            Concentration:            Lead Measured 180.00 mg/kg            Concentration:            Nickel Measured 64.00 mg/kg            Concentration:</p>	A14SW (SE)	260	2	491270 290680
	<p><b>BGS Measured Urban Soil Chemistry</b></p> <p>Source: British Geological Survey, National Geoscience Information Service            Grid: 490830, 290320            Soil Sample Type: Topsoil            Sample Area: Corby            Arsenic Measured 14.00 mg/kg            Concentration:            Cadmium Measured 0.30 mg/kg            Concentration:            Chromium Measured 88.00 mg/kg            Concentration:            Lead Measured 37.00 mg/kg            Concentration:            Nickel Measured 28.00 mg/kg            Concentration:</p>	A8NW (S)	420	2	490830 290320
	<p><b>BGS Measured Urban Soil Chemistry</b></p> <p>Source: British Geological Survey, National Geoscience Information Service            Grid: 491460, 290400            Soil Sample Type: Topsoil            Sample Area: Corby            Arsenic Measured 19.00 mg/kg            Concentration:            Cadmium Measured 0.30 mg/kg            Concentration:            Chromium Measured 89.00 mg/kg            Concentration:            Lead Measured 37.00 mg/kg            Concentration:            Nickel Measured 33.00 mg/kg            Concentration:</p>	A9NW (SE)	598	2	491460 290400

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>BGS Measured Urban Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Grid: 491780, 290850 Soil Sample Type: Topsoil Sample Area: Corby Arsenic Measured Concentration: 19.00 mg/kg Cadmium Measured Concentration: 0.30 mg/kg Chromium Measured Concentration: 84.00 mg/kg Lead Measured Concentration: 32.00 mg/kg Nickel Measured Concentration: 41.00 mg/kg	A14SE (E)	679	2	491780 290850
	<b>BGS Measured Urban Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Grid: 491840, 290880 Soil Sample Type: Topsoil Sample Area: Corby Arsenic Measured Concentration: 20.00 mg/kg Cadmium Measured Concentration: 0.30 mg/kg Chromium Measured Concentration: 91.00 mg/kg Lead Measured Concentration: 44.00 mg/kg Nickel Measured Concentration: 34.00 mg/kg	A14NE (E)	739	2	491840 290880
	<b>BGS Measured Urban Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Grid: 490180, 290220 Soil Sample Type: Topsoil Sample Area: Corby Arsenic Measured Concentration: 20.00 mg/kg Cadmium Measured Concentration: 0.30 mg/kg Chromium Measured Concentration: 137.00 mg/kg Lead Measured Concentration: 43.00 mg/kg Nickel Measured Concentration: 38.00 mg/kg	A7NW (SW)	778	2	490180 290220
	<b>BGS Measured Urban Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Grid: 490700, 289900 Soil Sample Type: Topsoil Sample Area: Corby Arsenic Measured Concentration: 22.00 mg/kg Cadmium Measured Concentration: 0.30 mg/kg Chromium Measured Concentration: 95.00 mg/kg Lead Measured Concentration: 41.00 mg/kg Nickel Measured Concentration: 33.00 mg/kg	A8SW (S)	837	2	490700 289900
	<b>BGS Measured Urban Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Grid: 490260, 289900 Soil Sample Type: Topsoil Sample Area: Corby Arsenic Measured Concentration: 18.00 mg/kg Cadmium Measured Concentration: 0.80 mg/kg Chromium Measured Concentration: 103.00 mg/kg Lead Measured Concentration: 37.00 mg/kg Nickel Measured Concentration: 31.00 mg/kg	A7SE (SW)	975	2	490260 289900

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>BGS Urban Soil Chemistry Averages</b> Source: British Geological Survey, National Geoscience Information Service Sample Area: Corby Count Id: 133 Arsenic Minimum Concentration: 11.00 mg/kg Arsenic Average Concentration: 23.00 mg/kg Arsenic Maximum Concentration: 90.00 mg/kg Cadmium Minimum Concentration: 0.30 mg/kg Cadmium Average Concentration: 0.30 mg/kg Cadmium Maximum Concentration: 4.00 mg/kg Chromium Minimum Concentration: 56.00 mg/kg Chromium Average Concentration: 94.00 mg/kg Chromium Maximum Concentration: 233.00 mg/kg Lead Minimum Concentration: 18.00 mg/kg Lead Average Concentration: 49.00 mg/kg Lead Maximum Concentration: 438.00 mg/kg Nickel Minimum Concentration: 17.00 mg/kg Nickel Average Concentration: 32.00 mg/kg Nickel Maximum Concentration: 64.00 mg/kg	A13NW (NE)	0	2	490908 290856
	<b>Coal Mining Affected Areas</b> In an area that might not be affected by coal mining				
	<b>Non Coal Mining Areas of Great Britain</b> No Hazard				
	<b>Potential for Collapsible Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (NE)	0	2	490908 290856
	<b>Potential for Compressible Ground Stability Hazards</b> Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13NW (NE)	0	2	490908 290856
	<b>Potential for Compressible Ground Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (S)	221	2	490947 290534
	<b>Potential for Ground Dissolution Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (NE)	0	2	490908 290856
	<b>Potential for Ground Dissolution Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (S)	221	2	490947 290534
	<b>Potential for Landslide Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (NE)	0	2	490908 290856
	<b>Potential for Running Sand Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (NE)	0	2	490908 290856
	<b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (NE)	0	2	490908 290856
	<b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b> Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SE (S)	221	2	490947 290534
	<b>Radon Potential - Radon Protection Measures</b> Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A13NW (NE)	0	2	490908 290856

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<p><b>Radon Potential - Radon Affected Areas</b></p> <p>Affected Area: The property is in a lower probability radon area, as less than 1% of homes are above the action level</p> <p>Source: British Geological Survey, National Geoscience Information Service</p>	A13NW (NE)	0	2	490908 290856

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
86	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Midland Hose Services Ltd            Location: Unit N, Harlow House, Shelton Road, Willowbrook East Industrial Estate, Corby, Northamptonshire, NN17 5XH            Classification: Hydraulic Equipment &amp; Accessories - Sales &amp; Service  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A13SE (SE)	82	-	491057 290769
86	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Cartell            Location: Unit F, Harlow House, Shelton Road, Willowbrook East Industrial Estate, Corby, Northamptonshire, NN17 5XH            Classification: Adhesives, Glues &amp; Sealants  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A13SE (SE)	100	-	491063 290752
86	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Cartell UK Ltd            Location: Unit F, Harlow House, Shelton Road, Willowbrook East Industrial Estate, Corby, Northamptonshire, NN17 5XH            Classification: Distribution Services  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A13SE (SE)	100	-	491063 290752
86	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Country Charm Ltd            Location: Unit E, Harlow House, Shelton Rd, Willowbrook East Ind Est, Corby, Northamptonshire, NN17 5XH            Classification: Ornamental Metalwork  <b>Status: Inactive</b>            Positional Accuracy: Manually positioned within the geographical locality</p>	A13SE (SE)	117	-	491082 290742
87	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Chrysalis Clothes Ltd            Location: Unit L, Harlow House, Shelton Road, Willowbrook East Industrial Estate, Corby, Northamptonshire, NN17 5XH            Classification: Clothing &amp; Fabrics - Manufacturers  <b>Status: Active</b>            Positional Accuracy: Automatically positioned to the address</p>	A13SE (E)	83	-	491104 290788
87	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Remchem Ltd            Location: Unit K, Harlow House, Shelton Road, Willowbrook East Industrial Estate, Corby, Northamptonshire, NN17 5XH            Classification: Commercial Cleaning Services  <b>Status: Active</b>            Positional Accuracy: Automatically positioned to the address</p>	A13SE (E)	85	-	491119 290793
87	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Remchem            Location: Unit K, Harlow House, Shelton Road, Willowbrook East Industrial Estate, Corby, Northamptonshire, NN17 5XH            Classification: Commercial Cleaning Services  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A13SE (E)	85	-	491119 290793
87	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Jigsaw Racing Services            Location: Unit G, Harlow House, Shelton Road, Willowbrook East Industrial Estate, Corby, Northamptonshire, NN17 5XH            Classification: Classic Car Specialists  <b>Status: Active</b>            Positional Accuracy: Automatically positioned to the address</p>	A13SE (SE)	100	-	491087 290763
87	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Rockingham Manufacturing            Location: Unit M, Harlow House, Shelton Road, Willowbrook East Industrial Estate, Corby, Northamptonshire, NN17 5XH            Classification: Precision Engineers  <b>Status: Active</b>            Positional Accuracy: Automatically positioned to the address</p>	A13SE (SE)	100	-	491087 290763
87	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Csm Light Haulage            Location: Unit g, Harlow House, Shelton Rd, Willowbrook East Ind Est, Corby, Northamptonshir, NN17 5XH            Classification: Road Haulage Services  <b>Status: Inactive</b>            Positional Accuracy: Manually positioned to the address or location</p>	A13SE (SE)	100	-	491087 290762



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
87	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Autogas Solutions            Location: Unit J, Harlow House, Shelton Road, Willowbrook East Industrial Estate, Corby, Northamptonshire, NN17 5XH            Classification: Autogas Suppliers &amp; Installers  <b>Status: Inactive</b>            Positional Accuracy: Manually positioned to the address or location</p>	A13SE (E)	103	-	491124 290775
88	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: N S (Uk) Ltd            Location: Shelton Road, Willowbrook East Industrial Estate, Corby, Northamptonshire, NN17 5XH            Classification: Car Accessories Manufacturers  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A13SE (E)	104	-	491196 290835
89	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Jaybee            Location: 10, Pywell Court, Willowbrook East Industrial Estate, Corby, Northamptonshire, NN17 5WA            Classification: Plastic Products - Manufacturers  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A13SE (SE)	129	-	491010 290698
89	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Chilled Packaging            Location: Unit A, Bracknell House, Pywell Road, Willowbrook East Industrial Estate, Corby, Northamptonshire, NN17 5XJ            Classification: Packaging Materials Manufacturers &amp; Suppliers  <b>Status: Active</b>            Positional Accuracy: Automatically positioned to the address</p>	A13SE (S)	134	-	490977 290678
90	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Oak International Ltd            Location: Basildon House, Pywell Road, Willowbrook East Industrial Estate, Corby, Northamptonshire, NN17 5XJ            Classification: Engineering Materials  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A13SE (S)	132	-	490922 290658
91	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Corby Windows Ltd            Location: Pywell Road, Willowbrook East Industrial Estate, Corby, Northamptonshire, NN17 5XJ            Classification: Window Frame Manufacturers  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A13SW (S)	138	-	490843 290618
92	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Oakley            Location: Unit 6, Pywell Court, Willowbrook East Ind Est, Corby, Northamptonshire, NN17 5WA            Classification: Industrial Services  <b>Status: Inactive</b>            Positional Accuracy: Manually positioned to the address or location</p>	A13SE (SE)	162	-	491023 290668
92	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Smartsign            Location: 4-7, Pywell Court, Willowbrook East Industrial Estate, Corby, Northamptonshire, NN17 5WA            Classification: Printers  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A13SE (SE)	177	-	491029 290653
92	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Synergy Packaging Solutions Ltd            Location: Bracknell House, Pywell Rd, Willowbrook East Ind Est, Corby, Northamptonshire, NN17 5XJ            Classification: Packaging Materials Manufacturers &amp; Suppliers  <b>Status: Active</b>            Positional Accuracy: Manually positioned to the address or location</p>	A13SE (S)	182	-	490998 290635
92	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Jaycee Engineering (Corby) Ltd            Location: 1, Pywell Court, Willowbrook East Industrial Estate, Corby, Northamptonshire, NN17 5WA            Classification: Precision Engineers  <b>Status: Active</b>            Positional Accuracy: Automatically positioned to the address</p>	A13SE (SE)	202	-	491038 290631

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
92	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Adira Uk            Location: Pywell Rd, Willowbrook East Ind Est, Corby, Northamptonshire, NN17 5XJ            Classification: Sheet Metal Working Equipment &amp; Supplies  <b>Status:</b> Inactive            Positional Accuracy: Manually positioned to the road within the address or location</p>	A13SE (SE)	217	-	491052 290620
93	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Perfect Panels Corby            Location: 1, Shelton Court, Corby, Northamptonshire, NN17 5YU            Classification: Car Body Repairs  <b>Status:</b> Active            Positional Accuracy: Automatically positioned to the address</p>	A13SE (SE)	175	-	491193 290729
93	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Brammer Uk Ltd            Location: 1, Shelton Court, Corby, Northamptonshire, NN17 5YU            Classification: Engineering Materials  <b>Status:</b> Active            Positional Accuracy: Automatically positioned to the address</p>	A13SE (SE)	175	-	491193 290729
93	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: C K P Acrylics            Location: 3-4, Shelton Court, Corby, Northamptonshire, NN17 5YU            Classification: Plastic Products - Manufacturers  <b>Status:</b> Active            Positional Accuracy: Automatically positioned to the address</p>	A13SE (E)	182	-	491219 290739
93	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Acrylic Fabrications            Location: 3-4, Shelton Court, Corby, Northamptonshire, NN17 5YU            Classification: Plastic Products - Manufacturers  <b>Status:</b> Inactive            Positional Accuracy: Automatically positioned to the address</p>	A13SE (E)	182	-	491219 290739
93	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Tyrep Ltd            Location: Unit 7, Shelton Court, Corby, Northamptonshire, NN17 5YU            Classification: Tyre Repairs &amp; Retreading  <b>Status:</b> Active            Positional Accuracy: Automatically positioned to the address</p>	A13SE (E)	190	-	491241 290749
94	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Oakley Products Ltd            Location: Unit E, Crawley House, Shelton Road, Willowbrook East Industrial Estate, Corby, Northamptonshire, NN17 5XH            Classification: Ornamental Metalwork  <b>Status:</b> Inactive            Positional Accuracy: Automatically positioned to the address</p>	A13SE (SE)	182	-	491089 290674
94	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Egg Box Graphics            Location: Unit E, Crawley House, Shelton Rd, Willowbrook East Ind Est, Corby, Northamptonshire, NN17 5XH            Classification: Digital Printing  <b>Status:</b> Active            Positional Accuracy: Manually positioned to the address or location</p>	A13SE (SE)	182	-	491089 290674
95	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Pluswipes Ltd            Location: Pywell Road, Willowbrook East Industrial Es, Corby, Northamptonshire, NN17 5XJ            Classification: Cleaning Materials &amp; Equipment  <b>Status:</b> Active            Positional Accuracy: Manually positioned to the road within the address or location</p>	A13SE (S)	216	-	490970 290586
96	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Keencut Ltd            Location: Baird Road, Willowbrook North Industrial Estate, Corby, Northamptonshire, NN17 5ZA            Classification: Machine Tools - Manufacturers &amp; Distributors  <b>Status:</b> Active            Positional Accuracy: Automatically positioned to the address</p>	A8NW (SW)	269	-	490684 290477
96	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Keencut Ltd            Location: Baird Road, Willowbrook North Industrial Estate, Corby, Northamptonshire, NN17 5ZA            Classification: Cutting Tools &amp; Machinery  <b>Status:</b> Inactive            Positional Accuracy: Automatically positioned to the address</p>	A8NW (SW)	269	-	490684 290477

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
97	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Great British T-Shirt Co The            Location: Pywell Road, Willowbrook East Industrial Estate, Corby, Northamptonshire, NN17 5XJ            Classification: Printers  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A8NW (S)	269	-	490888 290494
98	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Benteler Automotive (UK) Ltd            Location: Baird Road, Willowbrook North Industrial Estate, Corby, Northamptonshire, NN17 5BB            Classification: Car Component Manufacturers  <b>Status: Active</b>            Positional Accuracy: Automatically positioned to the address</p>	A8NW (S)	272	-	490769 290463
99	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Smartsan            Location: Pywell Road, Willowbrook East Industrial Estate, Corby, Northamptonshire, NN17 5XJ            Classification: Electronic Component Manufacturers &amp; Distributors  <b>Status: Active</b>            Positional Accuracy: Automatically positioned to the address</p>	A13SE (SE)	316	-	491181 290568
100	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Avk UK Ltd            Location: Sondes Road, Willowbrook East Industrial Estate, Corby, Northamptonshire, NN17 5XL            Classification: Valve Manufacturers &amp; Suppliers  <b>Status: Active</b>            Positional Accuracy: Automatically positioned to the address</p>	A14SW (SE)	319	-	491278 290612
101	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Corby Mechanical Services Ltd            Location: Unit 2, Baird Road, Willowbrook North Industrial Estate, Corby, Northamptonshire, NN17 5ZA            Classification: Mechanical Engineers  <b>Status: Active</b>            Positional Accuracy: Automatically positioned to the address</p>	A8NW (SW)	326	-	490704 290414
101	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Charles Walker Midlands Ltd            Location: Unit 2, Baird Road, Willowbrook North Industrial Estate, Corby, Northamptonshire, NN17 5ZA            Classification: Conveyors &amp; Conveyor Belts  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A8NW (SW)	326	-	490704 290414
101	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Utilix Ltd            Location: Unit 3, Baird Road, Willowbrook North Industrial Estate, Corby, Northamptonshire, NN17 5ZA            Classification: Drilling &amp; Boring Equipment &amp; Supplies  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A8NW (SW)	332	-	490692 290410
102	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Starion International (Distribution) Ltd            Location: Willowbrook Indust Est, Baird Rd, Corby, Northants, NN17 5ZA            Classification: Distribution Services  <b>Status: Inactive</b>            Positional Accuracy: Manually positioned to the road within the address or location</p>	A8NW (SW)	333	-	490654 290420
103	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Parker Fine Foods            Location: Baird Road, Willowbrook North Industrial Estate, Corby, Northamptonshire, NN17 5ZA            Classification: Frozen Food Processors &amp; Distributors  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A8NW (SW)	391	-	490618 290371
104	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Feige            Location: Curver Way, Willowbrook East Ind Est, Corby, Northants, NN17 5XN            Classification: Distribution Services  <b>Status: Inactive</b>            Positional Accuracy: Manually positioned to the road within the address or location</p>	A8NW (S)	421	-	490851 290322

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
104	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Newell            Location: Curver Way, Willowbrook East Indust Est, Corby, Northants, NN17 5XN            Classification: Rubber &amp; Plastic Products - Manufacturers  <b>Status: Inactive</b>            Positional Accuracy: Manually positioned to the road within the address or location</p>	A8NW (S)	451	-	490862 290294
105	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Rpc Bebo Uk            Location: Barons Court, Sallow Road, Weldon North Ind Est, Corby, Northamptonshire, NN17 5JX            Classification: Packaging Materials Manufacturers &amp; Suppliers  <b>Status: Active</b>            Positional Accuracy: Manually positioned within the geographical locality</p>	A9NW (SE)	522	-	491375 290434
106	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Wyko E M S            Location: 2-3, Sallow Road, Weldon North Industrial Estate, Corby, Northamptonshire, NN17 5JX            Classification: Engineers - General  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A9NW (SE)	579	-	491480 290440
106	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Wyko Electro Mechanical Services            Location: Unit 1-2 Sallow Rd, Weldon North Ind Est, Corby, Northants, NN17 5JX            Classification: Mechanical Engineers  <b>Status: Inactive</b>            Positional Accuracy: Manually positioned to the road within the address or location</p>	A9NW (SE)	601	-	491458 290394
106	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Customblend Ingredients Ltd            Location: 5, Sallow Road, Weldon North Industrial Estate, Corby, NN17 5JX            Classification: Food Colouring, Flavouring &amp; Additive Manufacturers &amp; Distributors  <b>Status: Active</b>            Positional Accuracy: Automatically positioned to the address</p>	A9NW (SE)	607	-	491491 290412
106	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Synergy Corby Ltd            Location: 5, Sallow Road, Weldon North Industrial Estate, Corby, Northamptonshire, NN17 5JX            Classification: Food Products - Manufacturers  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A9NW (SE)	607	-	491491 290412
107	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Pyramid Laboratories            Location: Unit B, Cavendish Courtyard, Weldon North Industrial Estate, Corby, Northamptonshire, NN17 5DZ            Classification: Metal Finishing Services  <b>Status: Active</b>            Positional Accuracy: Automatically positioned to the address</p>	A9NW (SE)	589	-	491413 290378
108	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Rapier Control Systems Ltd            Location: Unit C, Cavendish Courtyard, Weldon North Industrial Estate, Corby, Northamptonshire, NN17 5DZ            Classification: Control Panels  <b>Status: Active</b>            Positional Accuracy: Automatically positioned to the address</p>	A9NW (SE)	592	-	491403 290369
108	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Southern Group Laboratory Ltd            Location: Unit E-h, Cavendish Courtyard, Sallow Road, Weldon North Industrial Estate, Corby, Northamptonshire, NN17 5JX            Classification: Laboratory Equipment, Instruments &amp; Supplies  <b>Status: Active</b>            Positional Accuracy: Automatically positioned to the address</p>	A9NW (SE)	635	-	491390 290312
108	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: A M B Hygiene Ltd            Location: Unit I, Cavendish Courtyard, Weldon North Industrial Estate, Corby, Northamptonshire, NN17 5DZ            Classification: Cleaning Materials &amp; Equipment  <b>Status: Active</b>            Positional Accuracy: Automatically positioned to the address</p>	A9NW (SE)	639	-	491419 290324

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
108	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Centuryprint Ltd            Location: Unit J, Cavendish Courtyard, Weldon North Industrial Estate, Corby, Northamptonshire, NN17 5DZ            Classification: Printers  <b>Status: Active</b>            Positional Accuracy: Automatically positioned to the address</p>	A9NW (SE)	640	-	491432 290330
108	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Contract Printing Services Ltd            Location: Unit J, Cavendish Courtyard, Weldon North Industrial Estate, Corby, Northamptonshire, NN17 5DZ            Classification: Printers  <b>Status: Active</b>            Positional Accuracy: Automatically positioned to the address</p>	A9NW (SE)	640	-	491432 290330
108	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Unicorn Consultants            Location: Unit K, Cavendish Courtyard, Weldon North Industrial Estate, Corby, Northamptonshire, NN17 5DZ            Classification: Testing, Inspection &amp; Calibration Equipment Manufacturers  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A9NW (SE)	643	-	491447 290336
109	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Dubois Ltd            Location: Amaray House, Arkwright Road, Willowbrook North Industrial Estate, Corby, Northamptonshire, NN17 5AE            Classification: Plastics - Injection Moulding  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A7NE (SW)	644	-	490309 290278
110	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: A &amp; G Recycling            Location: 6b, Sallow Road, Weldon North Industrial Estate, Corby, Northamptonshire, NN17 5JX            Classification: Car Breakers &amp; Dismantlers  <b>Status: Inactive</b>            Positional Accuracy: Manually positioned to the road within the address or location</p>	A9NW (SE)	656	-	491485 290346
111	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Briggs Irrigation            Location: Boyle Road, Willowbrook East Industrial Estate, Corby, Northamptonshire, NN17 5XU            Classification: Agricultural Engineers  <b>Status: Active</b>            Positional Accuracy: Automatically positioned to the address</p>	A7SE (SW)	658	-	490495 290133
112	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Rpc Containers Ltd            Location: 4, Sallow Road, Weldon North Industrial Estate, Corby, Northamptonshire, NN17 5JX            Classification: Packaging Materials Manufacturers &amp; Suppliers  <b>Status: Active</b>            Positional Accuracy: Automatically positioned to the address</p>	A9NW (SE)	695	-	491446 290275
113	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Roquette            Location: 9-11, Sallow Road, Weldon North Industrial Estate, Corby, Northamptonshire, NN17 5JX            Classification: Food Products - Manufacturers  <b>Status: Active</b>            Positional Accuracy: Automatically positioned to the address</p>	A9NE (SE)	747	-	491613 290334
114	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Macemain &amp; Amstad            Location: Boyle Road, Willowbrook East Industrial Estate, CORBY, Northamptonshire, NN17 5XU            Classification: Metal Products - Fabricated  <b>Status: Active</b>            Positional Accuracy: Automatically positioned to the address</p>	A7SE (SW)	751	-	490551 290014
115	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Eurofleet Ltd            Location: 3, Arkwright Road, Willowbrook North Industrial Estate, Corby, Northamptonshire, NN17 5AE            Classification: Distribution Services  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A7NW (SW)	752	-	490174 290268

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
115	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Camden Fleet Solutions            Location: 3, Arkwright Road, Willowbrook North Industrial Estate, Corby, Northamptonshire, NN17 5AE            Classification: Distribution Services  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A7NW (SW)	752	-	490174 290268
116	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Paul Birney            Location: Darwin Rd, Willowbrook East Ind Est, Corby, Northants, NN17 5XZ            Classification: Spraying - Paint &amp; Coatings  <b>Status: Inactive</b>            Positional Accuracy: Manually positioned to the road within the address or location</p>	A8SW (S)	764	-	490627 289983
117	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Corby Metal Recycling            Location: Arkwright Rd, Willowbrook North Ind Est, Corby, Northamptonshire, NN17 5AE            Classification: Recycling Services  <b>Status: Active</b>            Positional Accuracy: Manually positioned within the geographical locality</p>	A7NW (SW)	774	-	490198 290207
118	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Lubron Advanced Oils Ltd            Location: 6, Enterprise Park, Hunters Road, Weldon North Industrial Estate, Corby, Northamptonshire, NN17 5JE            Classification: Oil Companies  <b>Status: Active</b>            Positional Accuracy: Automatically positioned to the address</p>	A9NW (SE)	776	-	491570 290260
118	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Beda Technology Ltd            Location: Unit 10, Enterprise Park, Hunters Road, Weldon North Industrial Estate, Corby, Northamptonshire, NN17 5JE            Classification: Filtration Systems &amp; Services  <b>Status: Active</b>            Positional Accuracy: Automatically positioned to the address</p>	A9NE (SE)	795	-	491613 290269
118	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Trevafield (Fasteners) Ltd            Location: Hunters Road, Weldon North Industrial Estate, Corby, Northamptonshire, NN17 5JE            Classification: Fasteners &amp; Fixing Devices  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A9NE (SE)	796	-	491613 290269
118	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Nicholls Ecotech            Location: 1-4, Enterprise Park, Hunters Road, Weldon North Industrial Estate, Corby, Northamptonshire, NN17 5JE            Classification: Waste Processing Machinery  <b>Status: Active</b>            Positional Accuracy: Automatically positioned to the address</p>	A9NE (SE)	825	-	491603 290223
118	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Pride Forklift Training Ltd            Location: Enterprise Park, Hunters Rd, Weldon North Ind Est, Corby, Northamptonshire, NN17 5JE            Classification: Fork Lift Trucks  <b>Status: Inactive</b>            Positional Accuracy: Manually positioned within the geographical locality</p>	A9NE (SE)	842	-	491629 290222
119	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Cmecs            Location: 6, Sallow Road, Weldon North Industrial Estate, Corby, Northamptonshire, NN17 5JX            Classification: Conveyors &amp; Conveyor Belts  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A9NW (SE)	778	-	491519 290222
119	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: H S E Ltd            Location: Unit 2, Hunters Road, Weldon North Industrial Estate, Corby, Northamptonshire, NN17 5JE            Classification: Trailers &amp; Towing Equipment  <b>Status: Active</b>            Positional Accuracy: Automatically positioned to the address</p>	A9NW (SE)	821	-	491545 290187

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
119	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Stapleton'S Tyres            Location: Hunters Point, Brakey Road, Weldon North Industrial Estate, Corby, Northamptonshire, NN17 5JE            Classification: Tyre Dealers  <b>Status: Active</b>            Positional Accuracy: Manually positioned within the geographical locality</p>	A9NW (SE)	843	-	491579 290183
120	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Be Ashbury Chocolates            Location: Darwin Road, Willowbrook East Industrial Estate, Corby, Northamptonshire, NN17 5XZ            Classification: Confectionery Manufacturers  <b>Status: Active</b>            Positional Accuracy: Automatically positioned to the address</p>	A7SE (SW)	794	-	490327 290072
121	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: R C S Logistics            Location: Darwin Road, Willowbrook East Industrial Estate, Corby, Northamptonshire, NN17 5XZ            Classification: Road Haulage Services  <b>Status: Active</b>            Positional Accuracy: Automatically positioned to the address</p>	A8SW (S)	855	-	490675 289884
122	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Truck East Ltd            Location: Darwin Rd, Willowbrook East Ind Est, Corby, Northamptonshir, NN17 5XZ            Classification: Commercial Vehicle Dealers  <b>Status: Inactive</b>            Positional Accuracy: Manually positioned to the road within the address or location</p>	A7SE (SW)	872	-	490463 289916
123	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: The Garage Of Corby Ltd            Location: unit 1a,Darwin Rd, Willowbrook East Ind Est, Corby, Northamptonshire, NN17 5XZ            Classification: Mot Testing Centres  <b>Status: Active</b>            Positional Accuracy: Manually positioned to the road within the address or location</p>	A7SE (SW)	875	-	490458 289914
123	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Dedicatred Distribution Services Ltd            Location: Darwin Rd, Willowbrook East Ind Est, Corby, Northants, NN17 5XZ            Classification: Road Haulage Services  <b>Status: Inactive</b>            Positional Accuracy: Manually positioned to the road within the address or location</p>	A7SE (SW)	909	-	490412 289896
124	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: L M Transport Ltd            Location: Hunters Rd, Weldon North Ind Est, Corby, Northamptonshire, NN17 5JE            Classification: Road Haulage Services  <b>Status: Inactive</b>            Positional Accuracy: Manually positioned to the road within the address or location</p>	A9NE (SE)	883	-	491642 290180
125	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Kev'S Transport (Uk) Services Ltd            Location: Unit 7 Darwin Rd, Willowbrook East Ind Est, Corby, Northants, NN17 5XZ            Classification: Road Haulage Services  <b>Status: Inactive</b>            Positional Accuracy: Manually positioned to the road within the address or location</p>	A7SW (SW)	911	-	490189 290028
125	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: M &amp; J International Freight Ltd            Location: Darwin Road, Willowbrook East Industrial Estate, Corby, Northamptonshire, NN17 5XZ            Classification: Freight Forwarders  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A7SW (SW)	937	-	490156 290020
125	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Amc Uk Fasteners            Location: Unit 3-4, Darwin Road, Willowbrook East Industrial Estate, Corby, Northamptonshire, NN17 5XZ            Classification: Nuts, Bolts &amp; Fixings  <b>Status: Active</b>            Positional Accuracy: Automatically positioned to the address</p>	A7SW (SW)	937	-	490156 290020
126	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: M H Connectors Ltd            Location: Darwin Rd, Willowbrook East Ind Es, Corby, Northamptonshire, NN17 5XZ            Classification: Electronic Component Manufacturers &amp; Distributors  <b>Status: Active</b>            Positional Accuracy: Manually positioned to the road within the address or location</p>	A7SE (SW)	926	-	490388 289888

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
126	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: I B Accident Repairs            Location: Unit 1,Darwin Rd, Willowbrook East Ind Est, Corby, Northants, NN17 5XZ            Classification: Car Body Repairs  <b>Status: Inactive</b>            Positional Accuracy: Manually positioned to the road within the address or location</p>	A7SE (SW)	944	-	490358 289882
126	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Premier Galvanizing            Location: Darwin Rd, Willowbrook East Ind Est, Corby, Northamptonshir, NN17 5XZ            Classification: Metal Finishing Services  <b>Status: Inactive</b>            Positional Accuracy: Manually positioned to the road within the address or location</p>	A7SE (SW)	955	-	490328 289884
126	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Premier Galvanizing Ltd            Location: Darwin Rd, Willowbrook East Ind Est, Corby, Northamptonshire, NN17 5XZ            Classification: Metal Finishing Equipment  <b>Status: Active</b>            Positional Accuracy: Manually positioned to the road within the address or location</p>	A7SE (SW)	955	-	490328 289884
126	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Maxim Logistics Group Ltd            Location: Unit 3,Darwin Rd, Willowbrook East Ind Est, Corby, Northamptonshire, NN17 5XZ            Classification: Distribution Services  <b>Status: Inactive</b>            Positional Accuracy: Manually positioned to the road within the address or location</p>	A7SE (SW)	957	-	490324 289884
127	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Pharmacia Animal Health Ltd            Location: 7, Hunters Road, Weldon North Industrial Estate, Corby, Northamptonshire, NN17 5JE            Classification: Pharmaceutical Manufacturers &amp; Distributors  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A9SW (SE)	934	-	491577 290074
128	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Truckeast            Location: Darwin Road, Willowbrook East Industrial Estate, Corby, Northamptonshire, NN17 5XZ            Classification: Commercial Vehicle Servicing, Repairs, Parts &amp; Accessories  <b>Status: Active</b>            Positional Accuracy: Automatically positioned to the address</p>	A2NE (S)	940	-	490568 289815
129	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: The Form Centre            Location: 6, Perth House, Corby Gate Business Park, Priors Haw Road, Corby, Northamptonshire, NN17 5JG            Classification: Printers  <b>Status: Active</b>            Positional Accuracy: Automatically positioned to the address</p>	A9NE (SE)	947	-	491871 290326
129	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Data Storm            Location: 1b, Perth House, Corby Gate Business Park, Priors Haw Road, Corby, Northamptonshire, NN17 5JG            Classification: Electronic Component Manufacturers &amp; Distributors  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A9NE (SE)	947	-	491871 290326
129	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Counting Solutions Ltd            Location: Perth House,Corby Gate Business Pk,Priors Haw Rd, Corby, Northamptonshire, NN17 5JG            Classification: Electronic Equipment - Manufacturers &amp; Assemblers  <b>Status: Inactive</b>            Positional Accuracy: Manually positioned to the address or location</p>	A9NE (SE)	947	-	491871 290326
129	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Ceka Office Furniture &amp; Systems Ltd            Location: 3, Perth House, Corby Gate Business Park, Priors Haw Road, Corby, Northamptonshire, NN17 5JG            Classification: Furniture Manufacturers - Home &amp; Office  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A9NE (SE)	947	-	491871 290326



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
129	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Counting Solutions Ltd            Location: 2, Perth House, Corby Gate Business Park, Priors Haw Road, Corby, Northamptonshire, NN17 5JG            Classification: Electronic Engineers  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A9NE (SE)	947	-	491871 290326
130	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Key Packaging            Location: Trevithick Road, Willowbrook East Industrial Estate, Corby, Northamptonshire, NN17 5XY            Classification: Machinery - Industrial &amp; Commercial  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A7SW (SW)	966	-	490066 290068
130	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Key Packaging            Location: Unit F, Trevithick Road, Willowbrook East Industrial Estate, Corby, NN17 5XY            Classification: Packaging &amp; Wrapping Equipment &amp; Supplies  <b>Status: Active</b>            Positional Accuracy: Automatically positioned to the address</p>	A7SW (SW)	966	-	490066 290068
130	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Fastrax Conveyor Rollers Ltd            Location: Unit F, Trevithick Road, Willowbrook East Industrial Estate, Corby, Northamptonshire, NN17 5XY            Classification: Engineering Machine Services  <b>Status: Active</b>            Positional Accuracy: Automatically positioned to the address</p>	A7SW (SW)	966	-	490066 290068
130	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Action Screen Process            Location: Unit F, Trevithick Road, Willowbrook East Industrial Estate, Corby, NN17 5XY            Classification: Screen Process Printers  <b>Status: Active</b>            Positional Accuracy: Automatically positioned to the address</p>	A7SW (SW)	966	-	490066 290068
130	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Brudenell Builders            Location: Unit D, Gaydon House, Trevithick Rd, Willowbrook East Ind Est, Corby, Northamptonshire, NN17 5XY            Classification: Builders' Merchants  <b>Status: Inactive</b>            Positional Accuracy: Manually positioned to the address or location</p>	A7SW (SW)	987	-	490045 290058
131	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Golden West Foods Ltd            Location: Genner Road, Willowbrook North Industrial Estate, Corby, Northamptonshire, NN17 5FD            Classification: Food Products - Manufacturers  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A7SW (SW)	975	-	489984 290149
132	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: M &amp; J International            Location: Unit 1, Davey Road, Corby, Northamptonshire, NN17 5XX            Classification: Road Haulage Services  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A2NE (SW)	978	-	490453 289806
132	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Major Packaging Systems Ltd            Location: Unit 1, Davey Road, Corby, Northamptonshire, NN17 5XX            Classification: Packaging &amp; Wrapping Equipment &amp; Supplies  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A2NE (SW)	978	-	490453 289806
133	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Asda Distribution Centre            Location: 1, Hunters Road, Weldon North Industrial Estate, CORBY, Northamptonshire, NN17 5JE            Classification: Distribution Services  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A9SE (SE)	980	-	491734 290129
134	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Systems 4 Recycling Ltd            Location: 9, Darwin House, Corby Gate Business Park, Priors Haw Road, Corby, Northamptonshire, NN17 5JG            Classification: Shredding Equipment &amp; Services  <b>Status: Active</b>            Positional Accuracy: Automatically positioned to the address</p>	A9NE (SE)	982	-	491871 290269

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
135	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Roquette (Corby) Ltd            Location: Venture Close, Corby, Northamptonshire, NN17 5EX            Classification: Food Products - Manufacturers  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A10NW (SE)	988	-	491953 290376
136	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Welding Services (Weldon) Ltd            Location: Trevithick Road, Willowbrook East Industrial Estate, Corby, Northamptonshire, NN17 5XY            Classification: Metal Products - Fabricated  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A7SW (SW)	991	-	490110 289990
136	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Maylan Ltd            Location: 1, Darwin Court, Trevithick Road, Willowbrook East Industrial Estate, Corby, Northamptonshire, NN17 5XY            Classification: Precision Engineers  <b>Status: Active</b>            Positional Accuracy: Automatically positioned to the address</p>	A7SW (SW)	995	-	490139 289960
137	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Eurolink            Location: Unit 7, Darwin Court, Trevithick Road, Willowbrook East Industrial Estate, Corby, Northamptonshire, NN17 5XY            Classification: Freight Forwarders  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A7SW (SW)	992	-	490193 289924
138	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Data Online Ltd            Location: 9, Melbourne House, Corby Gate Business Park, Priors Haw Road, Corby, Northamptonshire, NN17 5JG            Classification: Electronic Engineers  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A10NW (SE)	999	-	491928 290317
138	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Pest Express Ltd            Location: 7, Melbourne House, Corby Gate Business Park, Priors Haw Road, Corby, Northamptonshire, NN17 5JG            Classification: Pest &amp; Vermin Control  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A10NW (SE)	999	-	491928 290317
138	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Pest Express Ltd            Location: 7, Melbourne House, Corby Gate Business Park, Priors Haw Road, Corby, Northamptonshire, NN17 5JG            Classification: Pest &amp; Vermin Control  <b>Status: Active</b>            Positional Accuracy: Automatically positioned to the address</p>	A10NW (SE)	999	-	491928 290317
138	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Pest Express Ltd            Location: 7, Melbourne House, Corby Gate Business Park, Priors Haw Road, Corby, Northamptonshire, NN17 5JG            Classification: Pest &amp; Vermin Control  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A10NW (SE)	999	-	491928 290317
138	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Bayside Motion Group            Location: 3, Melbourne House, Corby Gate Business Park, Priors Haw Road, Corby, Northamptonshire, NN17 5JG            Classification: Automation Systems &amp; Equipment  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A10NW (SE)	999	-	491928 290317
138	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Parker Bayside            Location: 3, Melbourne House, Corby Gate Business Park, Priors Haw Road, Corby, Northamptonshire, NN17 5JG            Classification: Automation Systems &amp; Equipment  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A10NW (SE)	999	-	491928 290317

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
138	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Pest Express            Location: 7, Melbourne House, Corby Gate Business Park, Priors Haw Road, Corby, Northamptonshire, NN17 5JG            Classification: Pest &amp; Vermin Control  <b>Status: Inactive</b>            Positional Accuracy: Automatically positioned to the address</p>	A10NW (SE)	999	-	491928 290317
138	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: All 4 Education            Location: 10, Melbourne House, Corby Gate Business Park, Priors Haw Road, Corby, Northamptonshire, NN17 5JG            Classification: Waste Disposal Services  <b>Status: Inactive</b>            Positional Accuracy: Manually positioned to the address or location</p>	A10NW (SE)	999	-	491928 290317
138	<p><b>Contemporary Trade Directory Entries</b></p> <p>Name: Med Page Ltd            Location: 3, Melbourne House, Corby Gate Business Park, Priors Haw Road, Corby, Northamptonshire, NN17 5JG            Classification: Manufacturers  <b>Status: Active</b>            Positional Accuracy: Automatically positioned to the address</p>	A10NW (SE)	999	-	491928 290317

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
139	<p><b>Nitrate Vulnerable Zones</b></p> <p>Name: Not Supplied</p> <p>Description: Surface Water</p> <p>Source: Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)</p>	A13NW (NE)	0	7	490908 290856

Agency & Hydrological	Version	Update Cycle
<b>Contaminated Land Register Entries and Notices</b> East Northamptonshire District Council - Environmental Health Department Harborough District Council - Environmental Health Department Corby Borough Council - Environmental Health Department Rutland Unitary Council - Environmental Health Department Kettering Borough Council - Environmental Health Department	April 2014 April 2014 December 2013 January 2015 October 2013	Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update
<b>Discharge Consents</b> Environment Agency - Anglian Region	April 2015	Quarterly
<b>Enforcement and Prohibition Notices</b> Environment Agency - Anglian Region Environment Agency - Midlands Region	March 2013 March 2013	As notified As notified
<b>Integrated Pollution Controls</b> Environment Agency - Anglian Region Environment Agency - Midlands Region	October 2008 October 2008	Not Applicable Not Applicable
<b>Integrated Pollution Prevention And Control</b> Environment Agency - Anglian Region Environment Agency - Midlands Region	April 2015 April 2015	Quarterly Quarterly
<b>Local Authority Integrated Pollution Prevention And Control</b> Corby Borough Council - Environmental Health Department East Northamptonshire District Council - Environmental Health Department Harborough District Council - Environmental Health Department Rutland Unitary Council - Environmental Health Department Kettering Borough Council - Environmental Health Department	January 2015 June 2014 March 2015 May 2014 November 2014	Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update
<b>Local Authority Pollution Prevention and Controls</b> Corby Borough Council - Environmental Health Department East Northamptonshire District Council - Environmental Health Department Harborough District Council - Environmental Health Department Rutland Unitary Council - Environmental Health Department Kettering Borough Council - Environmental Health Department	January 2015 June 2014 March 2015 May 2014 November 2014	Annually Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update
<b>Local Authority Pollution Prevention and Control Enforcements</b> Corby Borough Council - Environmental Health Department East Northamptonshire District Council - Environmental Health Department Harborough District Council - Environmental Health Department Rutland Unitary Council - Environmental Health Department Kettering Borough Council - Environmental Health Department	January 2015 June 2014 March 2015 May 2014 November 2014	Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update
<b>Nearest Surface Water Feature</b> Ordnance Survey	July 2012	Quarterly
<b>Pollution Incidents to Controlled Waters</b> Environment Agency - Anglian Region	September 1999	Not Applicable
<b>Prosecutions Relating to Authorised Processes</b> Environment Agency - Anglian Region Environment Agency - Midlands Region	March 2013 March 2013	As notified As notified
<b>Prosecutions Relating to Controlled Waters</b> Environment Agency - Anglian Region Environment Agency - Midlands Region	March 2013 March 2013	As notified As notified
<b>River Quality</b> Environment Agency - Head Office	November 2001	Not Applicable
<b>River Quality Biology Sampling Points</b> Environment Agency - Head Office	July 2012	Annually
<b>River Quality Chemistry Sampling Points</b> Environment Agency - Head Office	July 2012	Annually

Agency & Hydrological	Version	Update Cycle
<b>Substantiated Pollution Incident Register</b> Environment Agency - Anglian Region - Northern Area Environment Agency - Midlands Region - East Area Environment Agency - Midlands Region - Lower Trent Area	April 2015 April 2015 April 2015	Quarterly Quarterly Quarterly
<b>Water Abstractions</b> Environment Agency - Anglian Region	April 2015	Quarterly
<b>Water Industry Act Referrals</b> Environment Agency - Anglian Region Environment Agency - Midlands Region	April 2015 April 2015	Quarterly Quarterly
<b>Groundwater Vulnerability</b> Environment Agency - Head Office	April 2015	Not Applicable
<b>Drift Deposits</b> Environment Agency - Head Office	January 1999	Not Applicable
<b>Bedrock Aquifer Designations</b> British Geological Survey - National Geoscience Information Service	October 2012	As notified
<b>Superficial Aquifer Designations</b> British Geological Survey - National Geoscience Information Service	January 2015	As notified
<b>Source Protection Zones</b> Environment Agency - Head Office	April 2015	Quarterly
<b>Extreme Flooding from Rivers or Sea without Defences</b> Environment Agency - Head Office	May 2015	Quarterly
<b>Flooding from Rivers or Sea without Defences</b> Environment Agency - Head Office	May 2015	Quarterly
<b>Areas Benefiting from Flood Defences</b> Environment Agency - Head Office	May 2015	Quarterly
<b>Flood Water Storage Areas</b> Environment Agency - Head Office	May 2015	Quarterly
<b>Flood Defences</b> Environment Agency - Head Office	May 2015	Quarterly
<b>Detailed River Network Lines</b> Environment Agency - Head Office	March 2012	Annually
<b>Detailed River Network Offline Drainage</b> Environment Agency - Head Office	March 2012	Annually

Waste	Version	Update Cycle
<b>BGS Recorded Landfill Sites</b> British Geological Survey - National Geoscience Information Service	June 1996	Not Applicable
<b>Historical Landfill Sites</b> Environment Agency - Anglian Region - Northern Area Environment Agency - Midlands Region - East Area Environment Agency - Midlands Region - Lower Trent Area	February 2015 February 2015 February 2015	Quarterly Quarterly Quarterly
<b>Integrated Pollution Control Registered Waste Sites</b> Environment Agency - Anglian Region Environment Agency - Midlands Region	October 2008 October 2008	Not Applicable Not Applicable
<b>Licensed Waste Management Facilities (Landfill Boundaries)</b> Environment Agency - Anglian Region - Northern Area Environment Agency - Midlands Region - East Area Environment Agency - Midlands Region - Lower Trent Area	August 2014 August 2014 August 2014	Quarterly Quarterly Quarterly
<b>Licensed Waste Management Facilities (Locations)</b> Environment Agency - Anglian Region - Northern Area Environment Agency - Midlands Region - East Area Environment Agency - Midlands Region - Lower Trent Area	April 2015 April 2015 April 2015	Quarterly Quarterly Quarterly
<b>Local Authority Landfill Coverage</b> Corby Borough Council - Planning Department East Northamptonshire District Council - Community Services - Planning Department Harborough District Council - Environmental Health Department Kettering Borough Council - Environmental Health Department Leicestershire County Council Northamptonshire County Council Rutland Unitary Council - Environmental Health Department	May 2000 May 2000 May 2000 May 2000 May 2000 May 2000 May 2000	Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable
<b>Local Authority Recorded Landfill Sites</b> Corby Borough Council - Planning Department East Northamptonshire District Council - Community Services - Planning Department Harborough District Council - Environmental Health Department Kettering Borough Council - Environmental Health Department Leicestershire County Council Northamptonshire County Council Rutland Unitary Council - Environmental Health Department	May 2000 May 2000 May 2000 May 2000 May 2000 May 2000 May 2000	Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable
<b>Registered Landfill Sites</b> Environment Agency - Anglian Region - Northern Area Environment Agency - Midlands Region - Lower Trent Area	March 2003 March 2003	Not Applicable Not Applicable
<b>Registered Waste Transfer Sites</b> Environment Agency - Anglian Region - Northern Area Environment Agency - Midlands Region - Lower Trent Area	March 2003 March 2003	Not Applicable Not Applicable
<b>Registered Waste Treatment or Disposal Sites</b> Environment Agency - Anglian Region - Northern Area Environment Agency - Midlands Region - Lower Trent Area	March 2003 March 2003	Not Applicable Not Applicable

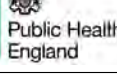
Hazardous Substances	Version	Update Cycle
<b>Control of Major Accident Hazards Sites (COMAH)</b> Health and Safety Executive	June 2015	Bi-Annually
<b>Explosive Sites</b> Health and Safety Executive	June 2015	Bi-Annually
<b>Notification of Installations Handling Hazardous Substances (NIHHS)</b> Health and Safety Executive	November 2000	Not Applicable
<b>Planning Hazardous Substance Enforcements</b> East Northamptonshire District Council - Community Services - Planning Department Kettering Borough Council Corby Borough Council - Planning Department Leicestershire County Council Northamptonshire County Council Rutland Unitary Council - Planning Support Harborough District Council	December 2014 January 2015 March 2015 March 2015 November 2011 October 2014 September 2014	Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update
<b>Planning Hazardous Substance Consents</b> East Northamptonshire District Council - Community Services - Planning Department Kettering Borough Council Corby Borough Council - Planning Department Leicestershire County Council Northamptonshire County Council Rutland Unitary Council - Planning Support Harborough District Council	December 2014 January 2015 March 2015 March 2015 May 2013 October 2014 September 2014	Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update



<b>Geological</b>	<b>Version</b>	<b>Update Cycle</b>
<b>BGS 1:625,000 Solid Geology</b> British Geological Survey - National Geoscience Information Service	January 2009	Not Applicable
<b>BGS Estimated Soil Chemistry</b> British Geological Survey - National Geoscience Information Service	January 2010	Annually
<b>BGS Recorded Mineral Sites</b> British Geological Survey - National Geoscience Information Service	May 2015	Bi-Annually
<b>BGS Urban Soil Chemistry</b> British Geological Survey - National Geoscience Information Service	June 2011	Annually
<b>BGS Urban Soil Chemistry Averages</b> British Geological Survey - National Geoscience Information Service	June 2011	Annually
<b>Brine Compensation Area</b> Cheshire Brine Subsidence Compensation Board	August 2011	Not Applicable
<b>Coal Mining Affected Areas</b> The Coal Authority - Mining Report Service	March 2014	As notified
<b>Mining Instability</b> Ove Arup & Partners	October 2000	Not Applicable
<b>Non Coal Mining Areas of Great Britain</b> British Geological Survey - National Geoscience Information Service	July 2014	Not Applicable
<b>Potential for Collapsible Ground Stability Hazards</b> British Geological Survey - National Geoscience Information Service	June 2015	Annually
<b>Potential for Compressible Ground Stability Hazards</b> British Geological Survey - National Geoscience Information Service	June 2015	Annually
<b>Potential for Ground Dissolution Stability Hazards</b> British Geological Survey - National Geoscience Information Service	June 2015	Annually
<b>Potential for Landslide Ground Stability Hazards</b> British Geological Survey - National Geoscience Information Service	June 2015	Annually
<b>Potential for Running Sand Ground Stability Hazards</b> British Geological Survey - National Geoscience Information Service	June 2015	Annually
<b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b> British Geological Survey - National Geoscience Information Service	June 2015	Annually
<b>Radon Potential - Radon Affected Areas</b> British Geological Survey - National Geoscience Information Service	July 2011	As notified
<b>Radon Potential - Radon Protection Measures</b> British Geological Survey - National Geoscience Information Service	July 2011	As notified
<b>Industrial Land Use</b>	<b>Version</b>	<b>Update Cycle</b>
<b>Contemporary Trade Directory Entries</b> Thomson Directories	May 2015	Quarterly
<b>Fuel Station Entries</b> Catalist Ltd - Experian	May 2015	Quarterly

<b>Sensitive Land Use</b>	<b>Version</b>	<b>Update Cycle</b>
<b>Areas of Outstanding Natural Beauty</b> Natural England	February 2015	Bi-Annually
<b>Environmentally Sensitive Areas</b> Natural England	August 2014	Annually
<b>Forest Parks</b> Forestry Commission	April 1997	Not Applicable
<b>Local Nature Reserves</b> Natural England	April 2015	Bi-Annually
<b>Marine Nature Reserves</b> Natural England	July 2013	Bi-Annually
<b>National Nature Reserves</b> Natural England	March 2015	Bi-Annually
<b>National Parks</b> Natural England	February 2015	Bi-Annually
<b>Nitrate Sensitive Areas</b> Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	February 2012	Not Applicable
<b>Nitrate Vulnerable Zones</b> Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	July 2014	Annually
<b>Ramsar Sites</b> Natural England	March 2014	Bi-Annually
<b>Sites of Special Scientific Interest</b> Natural England	April 2015	Bi-Annually
<b>Special Areas of Conservation</b> Natural England	March 2014	Bi-Annually
<b>Special Protection Areas</b> Natural England	April 2015	Bi-Annually

A selection of organisations who provide data within this report

Data Supplier	Data Supplier Logo
Ordnance Survey	
Environment Agency	
Scottish Environment Protection Agency	
The Coal Authority	
British Geological Survey	
Centre for Ecology and Hydrology	
Natural Resources Wales	
Scottish Natural Heritage	
Natural England	
Public Health England	
Ove Arup	
Peter Brett Associates	

Contact	Name and Address	Contact Details
2	<b>British Geological Survey - Enquiry Service</b> British Geological Survey, Kingsley Dunham Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
3	<b>Environment Agency - National Customer Contact Centre (NCCC)</b> PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 08708 506 506 Email: enquiries@environment-agency.gov.uk
4	<b>Corby Borough Council - Environmental Health Department</b> Dean House, New Post Office Square, Corby, Northamptonshire, NN17 1GD	Telephone: 01536 464051 Fax: 01536 464644 Website: www.corby.gov.uk
5	<b>Health and Safety Executive</b> 5S.2 Redgrave Court, Merton Road, Bootle, L20 7HS	Website: www.hse.gov.uk
6	<b>Corby Borough Council - Planning Department</b> Civic Centre, George Street, Corby, Northamptonshire, NN17 1QB	Telephone: 01536 402551 Fax: 01536 400200 Website: www.corby.gov.uk
7	<b>Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)</b> Government Buildings, Otley Road, Lawnswood, Leeds, West Yorkshire, LS16 5QT	Telephone: 0113 2613333 Fax: 0113 230 0879
8	<b>East Northamptonshire District Council - Community Services - Planning Department</b> East Northampton House, Cedar Drive, Thrapston, Kettering, Northamptonshire, NN14 4LZ	Telephone: 01832 742000 Fax: 01832 000000 Website: www.east-northamptonshire.gov.uk
9	<b>Northamptonshire County Council</b> County Hall, Northampton, Northamptonshire, NN1 1DN	Telephone: 0300 126 1000 Website: www.northamptonshire.gov.uk
-	<b>Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards</b> Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@phe.gov.uk Website: www.ukradon.org
-	<b>Landmark Information Group Limited</b> Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk

Please note that the Environment Agency / Natural Resources Wales / SEPA have a charging policy in place for enquiries.

### Index Map

For ease of identification, your site and buffer have been split into Slices, Segments and Quadrants. These are illustrated on the Index Map opposite and explained further below.

#### Slice

Each slice represents a 1:10,000 plot area (2.7km x 2.7km) for your site and buffer. A large site and buffer may be made up of several slices (represented by a red outline), that are referenced by letters of the alphabet, starting from the bottom left corner of the slice "grid". This grid does not relate to National Grid lines but is designed to give best fit over the site and buffer.

#### Segment

A segment represents a 1:2,500 plot area. Segments that have plot files associated with them are shown in dark green, others in light blue. These are numbered from the bottom left hand corner within each slice.

#### Quadrant

A quadrant is a quarter of a segment. These are labelled as NW, NE, SW, SE and are referenced in the datasheet to allow features to be quickly located on plots. Therefore a feature that has a quadrant reference of A7NW will be in Slice A, Segment 7 and the NW Quadrant.

A selection of organisations who provide data within this report:



Envirocheck reports are compiled from 136 different sources of data.

### Client Details

Ms J Trevelyan, Delta Simons, 3 Henley Office Park, Doddington Road, Lincoln, LN6 3QR

### Order Details

Order Number: 69227499\_1\_1  
 Customer Ref: 15-0645.01  
 National Grid Reference: 490900, 290850  
 Site Area (Ha): 4.12  
 Search Buffer (m): 1000

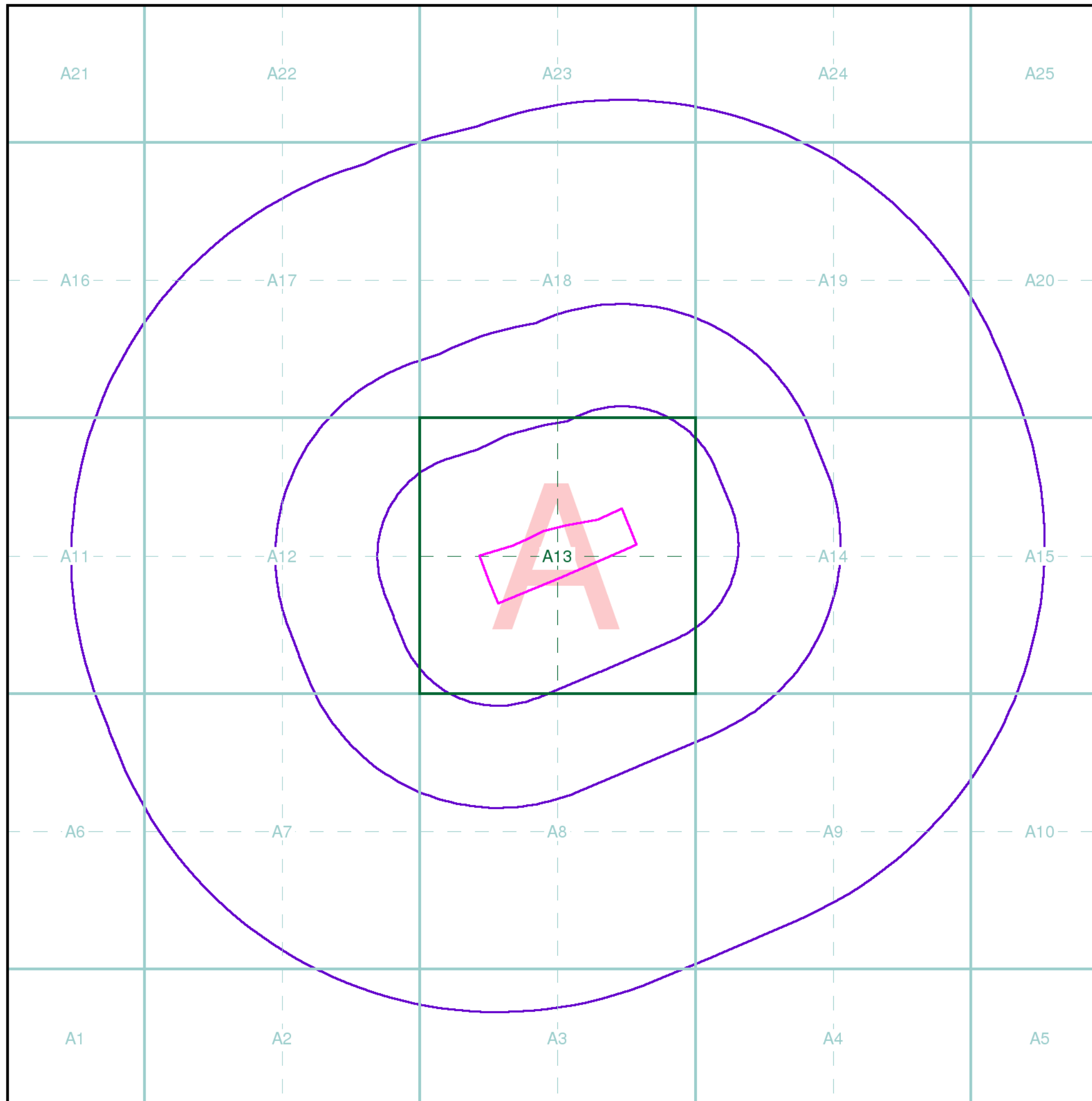
### Site Details

Shelton Road, Willowbrook East Industrial Estate, CORBY, Northamptonshire, NN17 5XH

Full Terms and Conditions can be found on the following link:  
<http://www.landmarkinfo.co.uk/Terms/Show/515>

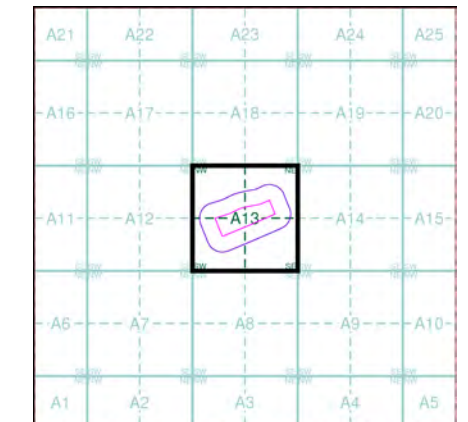


Tel: 0844 844 9952  
 Fax: 0844 844 9951  
 Web: www.envirocheck.co.uk



- General**
- Specified Site
  - Specified Buffer(s)
  - Bearing Reference Point
  - Map ID
  - Several of Type at Location
- Agency and Hydrological**
- Contaminated Land Register Entry or Notice (Location)
  - Contaminated Land Register Entry or Notice
  - Discharge Consent
  - Enforcement or Prohibition Notice
  - Integrated Pollution Control
  - Integrated Pollution Prevention Control
  - Local Authority Integrated Pollution Prevention and Control
  - Local Authority Pollution Prevention and Control Enforcement
  - Pollution Incident to Controlled Waters
  - Prosecution Relating to Authorised Processes
  - Prosecution Relating to Controlled Waters
  - Registered Radioactive Substance
  - River Network or Water Feature
  - River Quality Sampling Point
  - Substantiated Pollution Incident Register
  - Water Abstraction
  - Water Industry Act Referral
- Waste**
- BGS Recorded Landfill Site (Location)
  - BGS Recorded Landfill Site
  - EA Historic Landfill (Buffered Point)
  - EA Historic Landfill (Polygon)
  - Integrated Pollution Control Registered Waste Site
  - Licensed Waste Management Facility (Landfill Boundary)
  - Licensed Waste Management Facility (Location)
  - Local Authority Recorded Landfill Site (Location)
  - Local Authority Recorded Landfill Site
  - Registered Landfill Site
  - Registered Landfill Site (Location)
  - Registered Landfill Site (Point Buffered to 100m)
  - Registered Landfill Site (Point Buffered to 250m)
  - Registered Waste Transfer Site (Location)
  - Registered Waste Transfer Site
  - Registered Waste Treatment or Disposal Site (Location)
  - Registered Waste Treatment or Disposal Site
- Hazardous Substances**
- COMAH Site
  - Explosive Site
  - NIHHS Site
  - Planning Hazardous Substance Consent
  - Planning Hazardous Substance Enforcement
- Geological**
- BGS Recorded Mineral Site
- Industrial Land Use**
- Contemporary Trade Directory Entry
  - Fuel Station Entry

### Site Sensitivity Map - Segment A13



### Order Details

Order Number: 69227499\_1\_1  
 Customer Ref: 15-0645.01  
 National Grid Reference: 490910, 290860  
 Slice: A  
 Site Area (Ha): 4.12

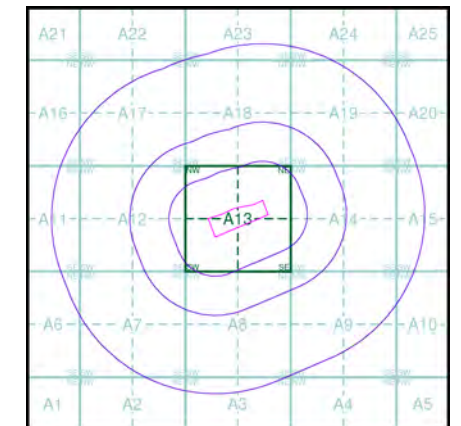
### Site Details

Shelton Road, Willowbrook East Industrial Estate, CORBY, Northamptonshire, NN17 5XH



- General**
- Specified Site
  - Specified Buffer(s)
  - Bearing Reference Point
  - Map ID
  - Several of Type at Location
- Agency and Hydrological**
- Contaminated Land Register Entry or Notice (Location)
  - Contaminated Land Register Entry or Notice
  - Discharge Consent
  - Enforcement or Prohibition Notice
  - Integrated Pollution Control
  - Integrated Pollution Prevention and Control
  - Local Authority Integrated Pollution Prevention and Control
  - Local Authority Pollution Prevention and Control Enforcement
  - Pollution Incident to Controlled Waters
  - Prosecution Relating to Authorised Processes
  - Prosecution Relating to Controlled Waters
  - Registered Radioactive Substance
  - River Network or Water Feature
  - River Quality Sampling Point
  - Substantiated Pollution Incident Register
  - Water Abstraction
  - Water Industry Act Referral
- Waste**
- BGS Recorded Landfill Site (Location)
  - BGS Recorded Landfill Site
  - EA Historic Landfill (Buffered Point)
  - EA Historic Landfill (Polygon)
  - Integrated Pollution Control Registered Waste Site
  - Licensed Waste Management Facility (Landfill Boundary)
  - Licensed Waste Management Facility (Location)
  - Local Authority Recorded Landfill Site (Location)
  - Local Authority Recorded Landfill Site
  - Registered Landfill Site
  - Registered Landfill Site (Location)
  - Registered Landfill Site (Point Buffered to 100m)
  - Registered Landfill Site (Point Buffered to 250m)
  - Registered Waste Transfer Site (Location)
  - Registered Waste Transfer Site
  - Registered Waste Treatment or Disposal Site (Location)
  - Registered Waste Treatment or Disposal Site
- Hazardous Substances**
- COMAH Site
  - Explosive Site
  - NIHHS Site
  - Planning Hazardous Substance Consent
  - Planning Hazardous Substance Enforcement
- Geological**
- BGS Recorded Mineral Site
- Industrial Land Use**
- Contemporary Trade Directory Entry
  - Fuel Station Entry

### Site Sensitivity Map - Slice A

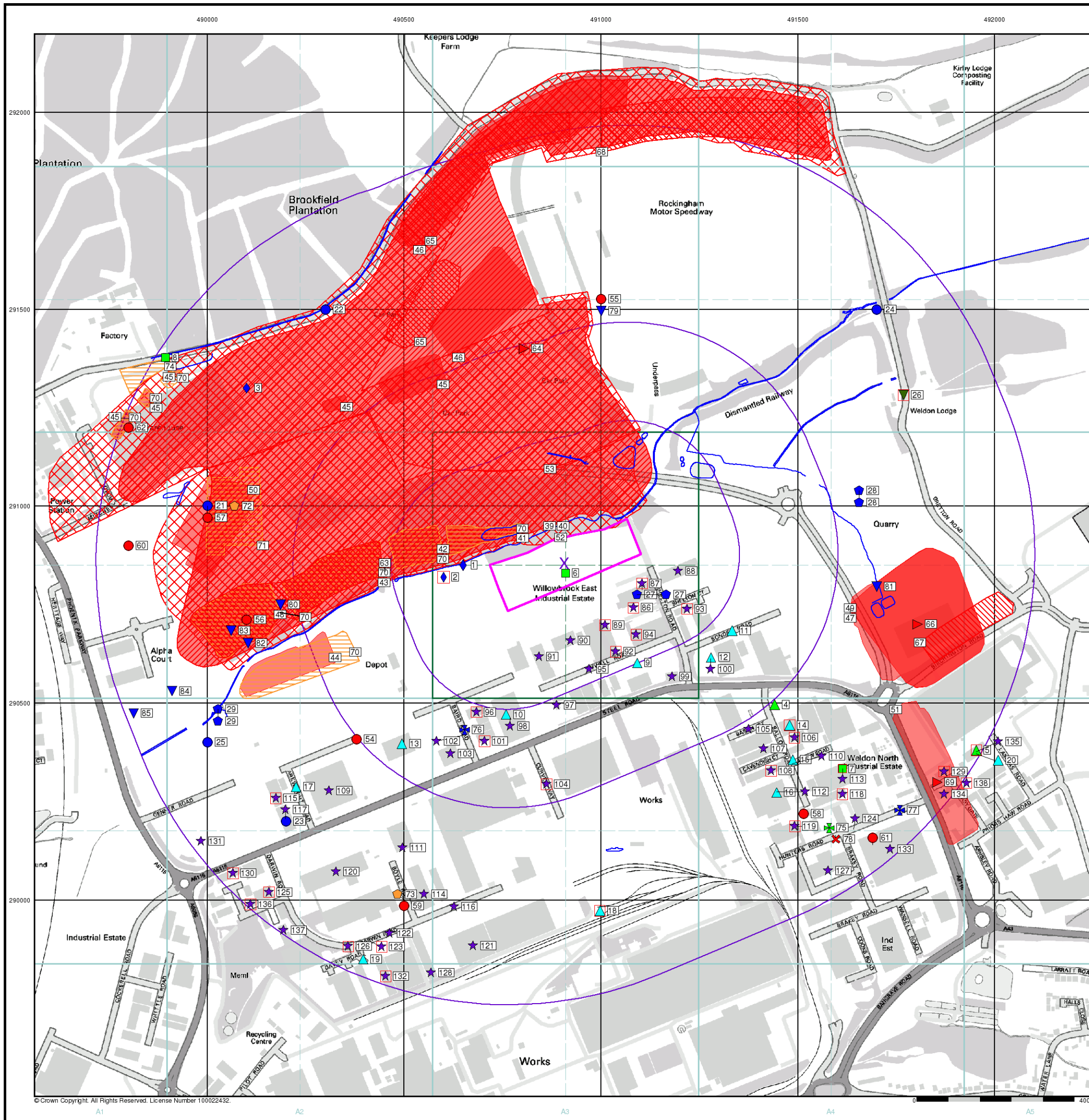


### Order Details

Order Number: 69227499\_1\_1  
 Customer Ref: 15-0645.01  
 National Grid Reference: 490910, 290860  
 Slice: A  
 Site Area (Ha): 4.12  
 Search Buffer (m): 1000




### Site Details

Shelton Road, Willowbrook East Industrial Estate, CORBY, Northamptonshire, NN17 5XH








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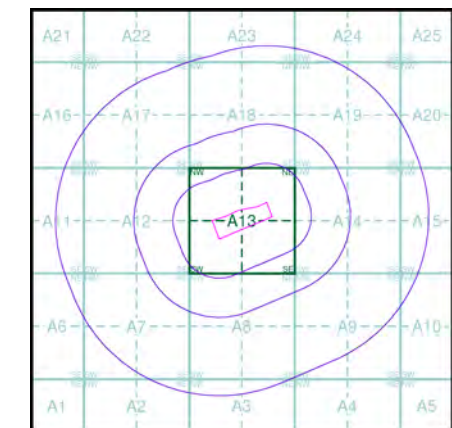
**General**

-  Specified Site
-  Specified Buffer(s)
-  Bearing Reference Point

**Agency and Hydrological (Flood)**

-  Extreme Flooding from Rivers or Sea without Defences (Zone 2)
-  Flooding from Rivers or Sea without Defences (Zone 3)
-  Area Benefiting from Flood Defence
-  Flood Water Storage Areas
-  Flood Defence

**Flood Map - Slice A**

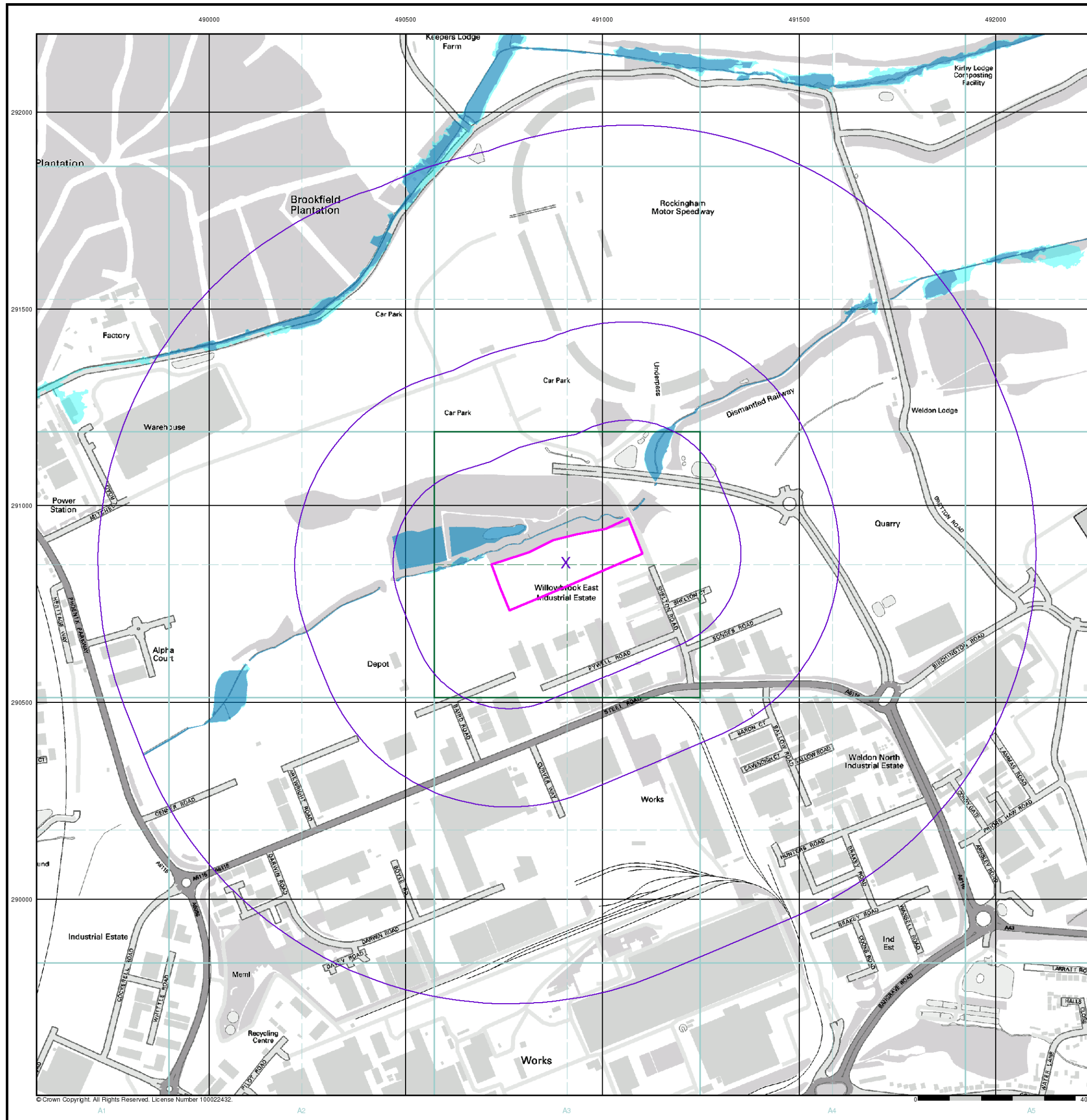


**Order Details**

Order Number: 69227499\_1\_1  
 Customer Ref: 15-0645.01  
 National Grid Reference: 490910, 290860  
 Slice: A  
 Site Area (Ha): 4.12  
 Search Buffer (m): 1000

**Site Details**

Shelton Road, Willowbrook East Industrial Estate, CORBY, Northamptonshire, NN17 5XH



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**General**

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Map ID
- Several of Type at Location

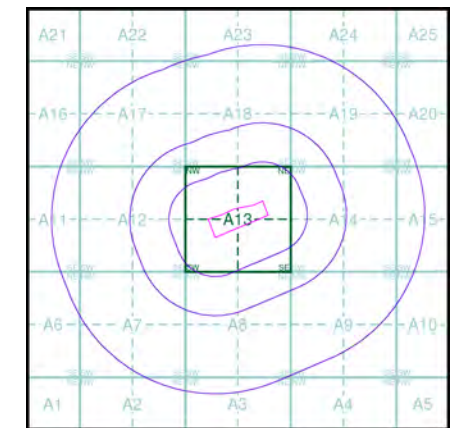
**Agency and Hydrological (Boreholes)**

- BGS Borehole Depth 0 - 10m
- BGS Borehole Depth 10 - 30m
- BGS Borehole Depth 30m +
- Confidential
- Other

For Borehole information please refer to the Borehole .csv file which accompanied this slice.

A copy of the BGS Borehole Ordering Form is available to download from the Support section of [www.envirocheck.co.uk](http://www.envirocheck.co.uk).

**Borehole Map - Slice A**

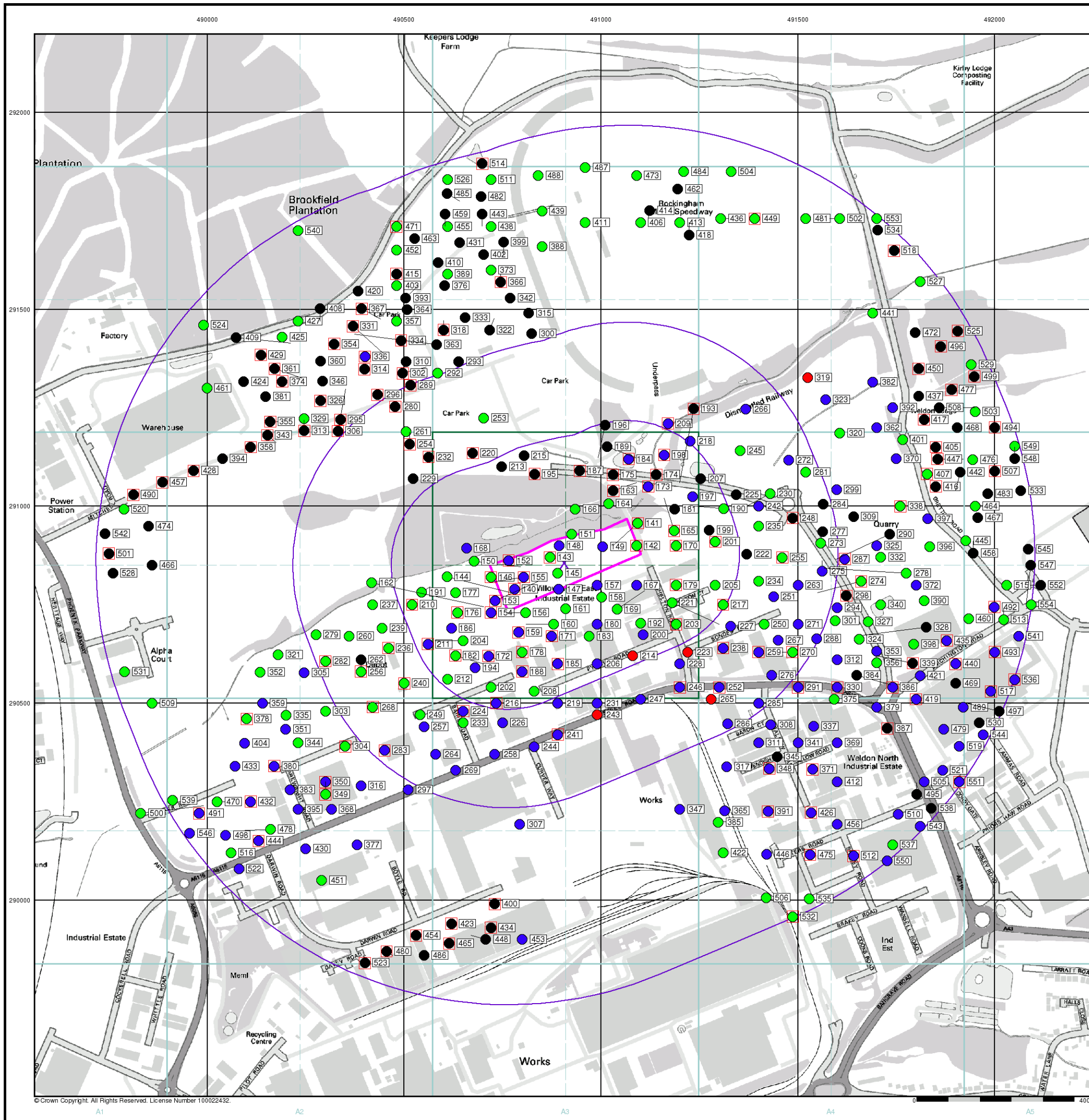


**Order Details**

Order Number: 69227499\_1\_1  
 Customer Ref: 15-0645.01  
 National Grid Reference: 490910, 290860  
 Slice: A  
 Site Area (Ha): 4.12  
 Search Buffer (m): 1000

**Site Details**

Shelton Road, Willowbrook East Industrial Estate, CORBY, Northamptonshire, NN17 5XH



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**General**

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Map ID

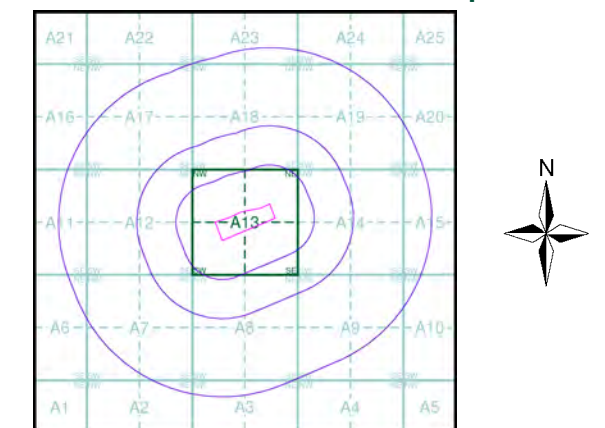
**Detailed River Network Data**

- Primary River
- Secondary River
- Tertiary River
- Canal
- Canal Tunnel
- Undefined River
- Lake/Reservoir
- Offline Drainage Feature
- Extended Culvert (greater than 50m)
- Underground River (inferred)
- Underground River (local knowledge)
- Downstream of High Water Mark
- Downstream of Seaward Extension
- Not assigned River feature

**Contours (height in metres)**

- Standard Contour 105
- Master Contour 100
- Spot Height \*167.3
- MLW Mean Low Water
- MHW Mean High Water

**E/NRW Detailed River Network Map - Slice A**

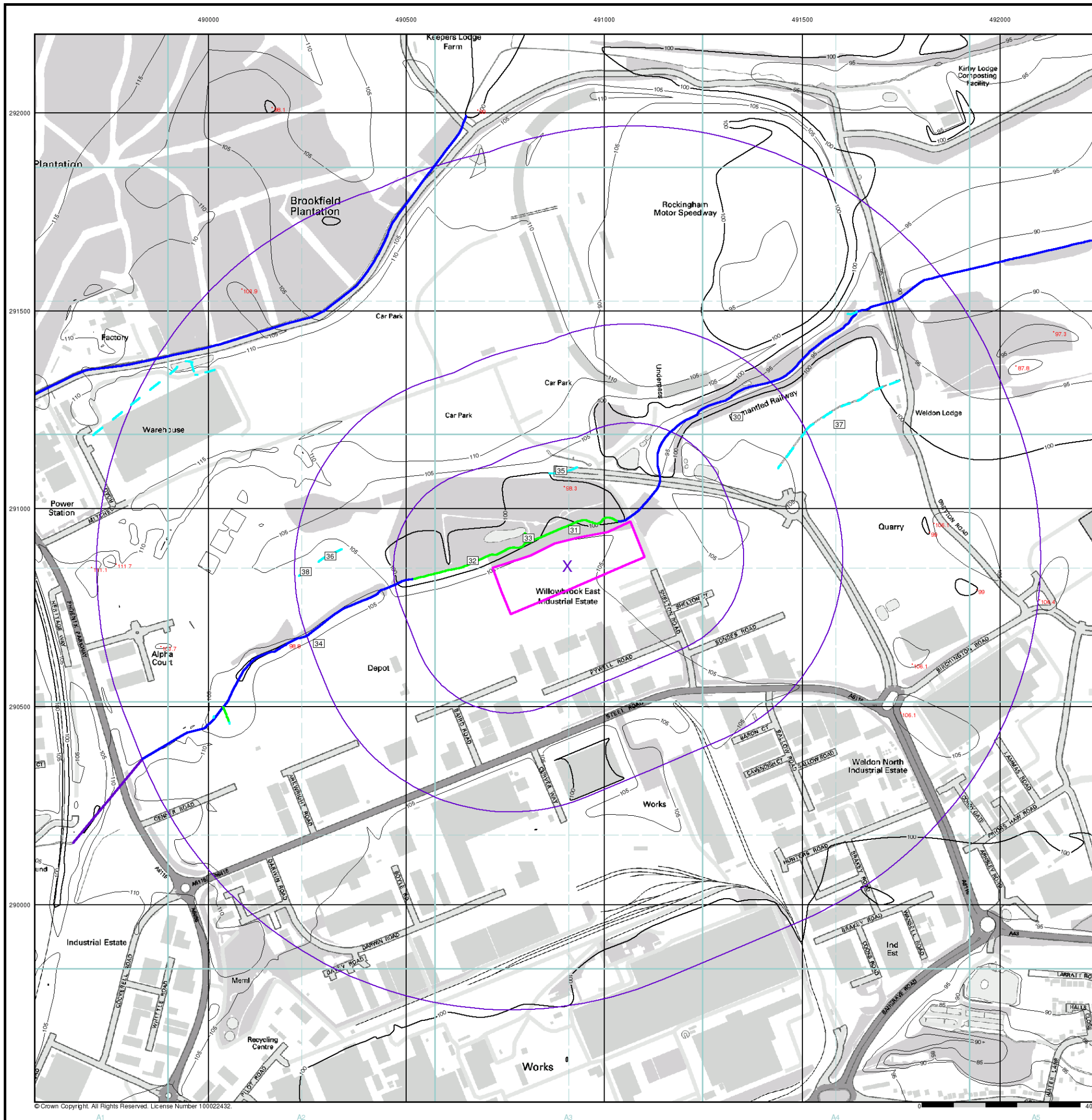


**Order Details**

Order Number: 69227499\_1\_1  
 Customer Ref: 15-0645.01  
 National Grid Reference: 490910, 290860  
 Slice: A  
 Site Area (Ha): 4.12  
 Search Buffer (m): 1000

**Site Details**

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 Northamptonshire, NN17 5XH



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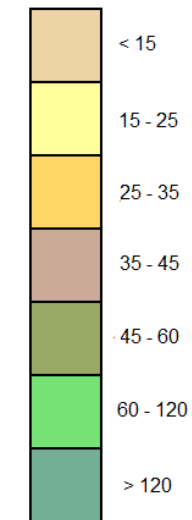
**General**

- ◊ Specified Site
- Specified Buffer(s)
- X Bearing Reference Point

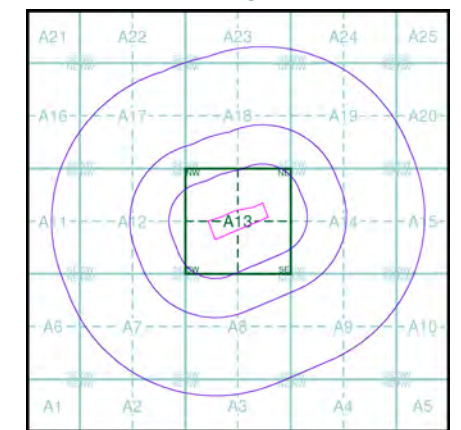
**Urban Soil Chemistry Arsenic**

● BGS Urban Soil Chemistry Measured Concentration Values (mg/kg)

Arsenic Concentrations mg/kg



**Urban Soil Chemistry Arsenic - Slice A**

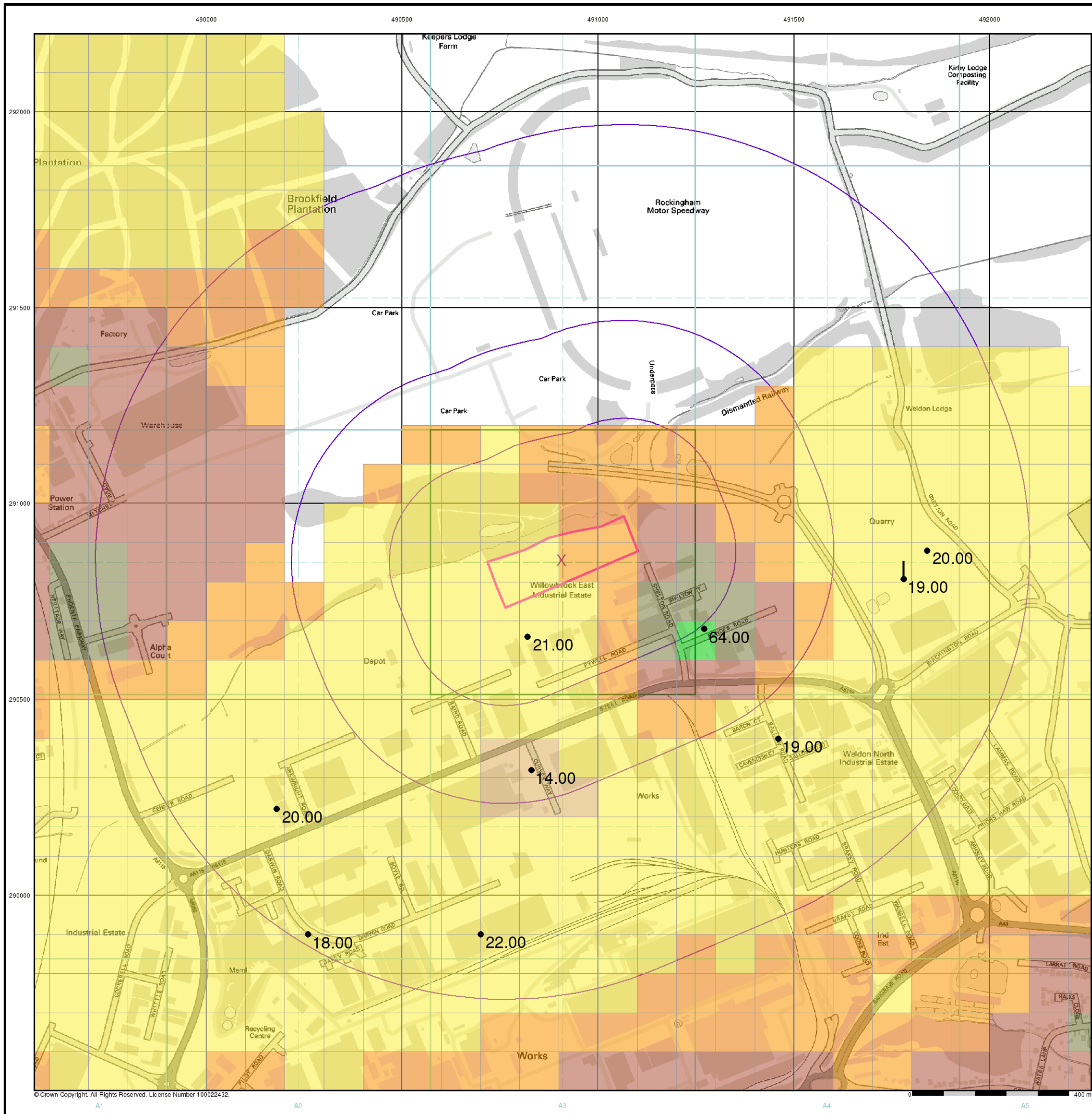


**Order Details**

Order Details: 69227499\_1\_1  
 Customer Ref: 15-0645.01  
 National Grid Reference: 490910, 290860  
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 Site Area (Ha): 4.12  
 Search buffer (m): 1000

**Site Details**

Shelton Road, Willowbrook East Industrial Estate, CORBY, Northamptonshire, NN17 5XH



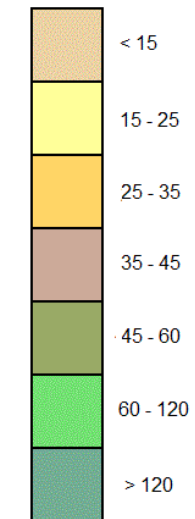
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**General**

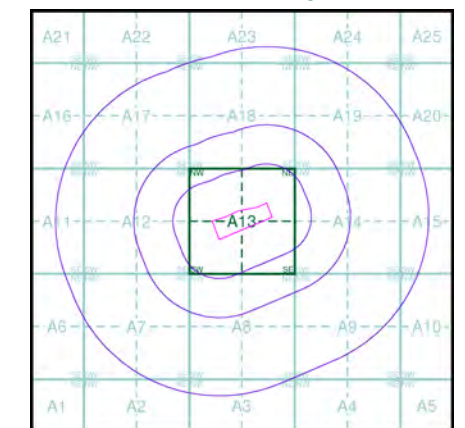
○ Specified Site     
 ○ Specified Buffer(s)     
 X Bearing Reference Point

**Estimated Soil Chemistry Arsenic**

Arsenic Concentrations mg/kg



**Estimated Soil Chemistry Arsenic - Slice A**

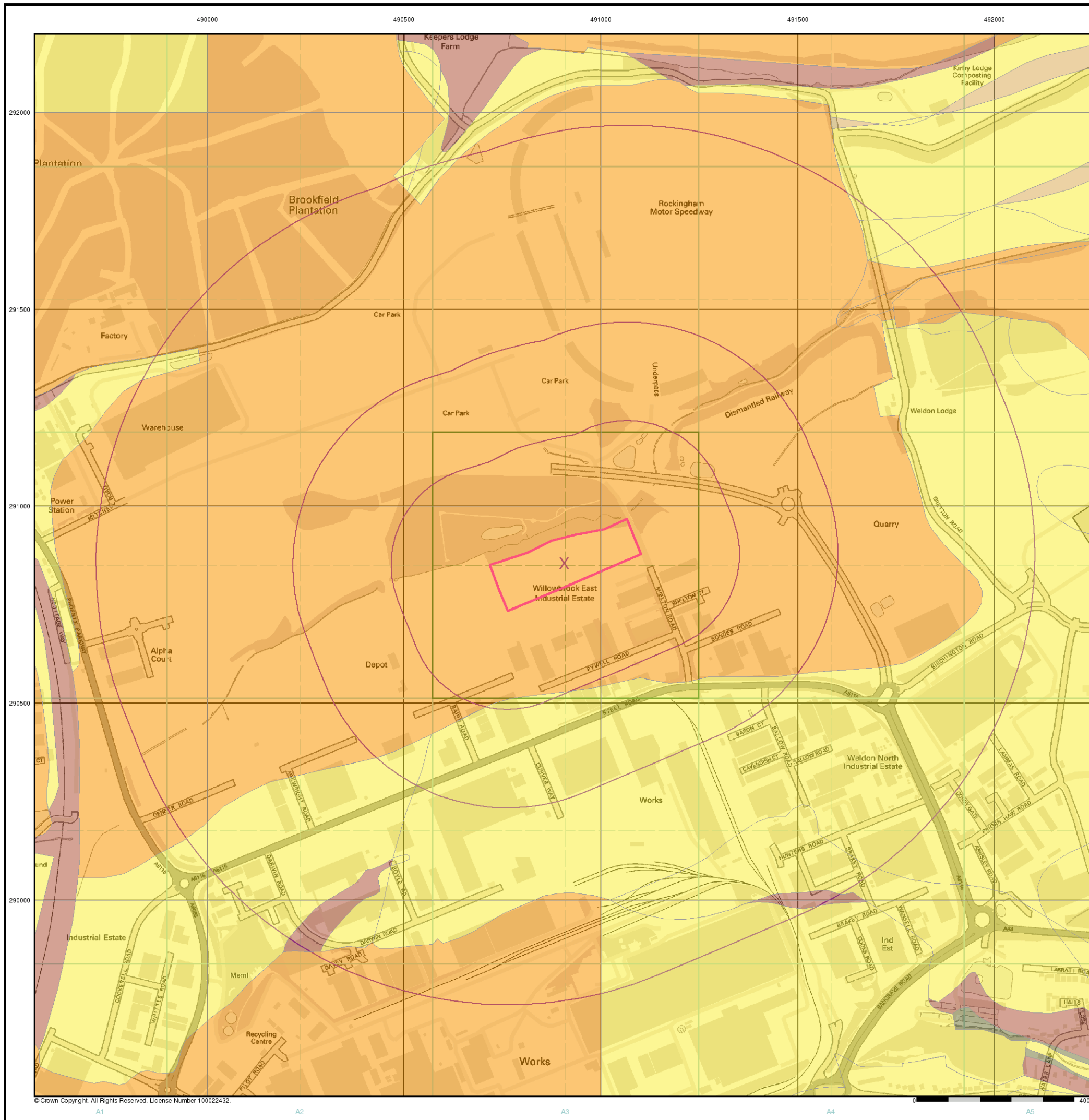


**Order Details**

Order Details: 69227499\_1\_1  
 Customer Ref: 15-0645.01  
 National Grid Reference: 490910, 290860  
 Slice: A  
 Site Area (Ha): 4.12  
 Search buffer (m): 1000

**Site Details**

Shelton Road, Willowbrook East Industrial Estate, CORBY,  
 Northamptonshire, NN17 5XH



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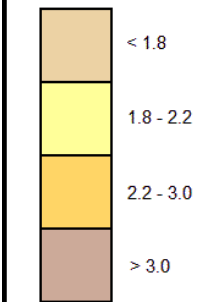
**General**

- Specified Site
- Specified Buffer(s)
- X Bearing Reference Point

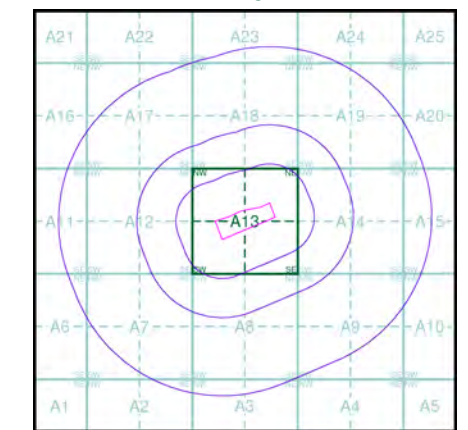
**Urban Soil Chemistry Cadmium**

● BGS Urban Soil Chemistry Measured Concentration Values (mg/kg)

Cadmium Concentrations mg/kg



**Urban Soil Chemistry Cadmium - Slice A**



**Order Details**

Order Details: 69227499\_1\_1  
 Customer Ref: 15-0645.01  
 National Grid Reference: 490910, 290860  
 Slice: A  
 Site Area (Ha): 4.12  
 Search buffer (m): 1000

**Site Details**

Shelton Road, Willowbrook East Industrial Estate, CORBY, Northamptonshire, NN17 5XH



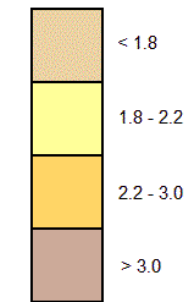
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**General**

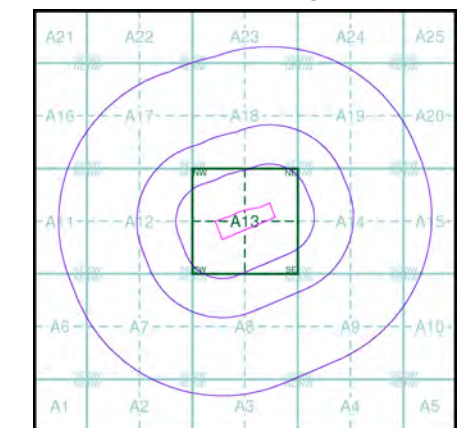
○ Specified Site     
 ○ Specified Buffer(s)     
 X Bearing Reference Point

**Estimated Soil Chemistry Cadmium**

Cadmium Concentrations mg/kg



**Estimated Soil Chemistry Cadmium - Slice A**



**Order Details**

Order Details: 69227499\_1\_1  
 Customer Ref: 15-0645.01  
 National Grid Reference: 490910, 290860  
 Slice: A  
 Site Area (Ha): 4.12  
 Search buffer (m): 1000

**Site Details**

Shelton Road, Willowbrook East Industrial Estate, CORBY, Northamptonshire, NN17 5XH



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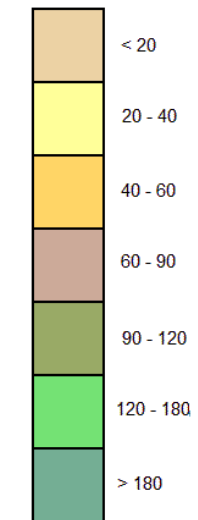
**General**

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- Specified Buffer(s)
- ✕ Bearing Reference Point

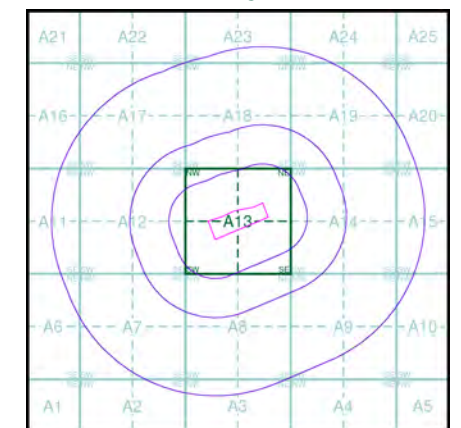
**Urban Soil Chemistry Chromium**

● BGS Urban Soil Chemistry Measured Concentration Values (mg/kg)

Chromium Concentrations mg/kg



**Urban Soil Chemistry Chromium - Slice A**

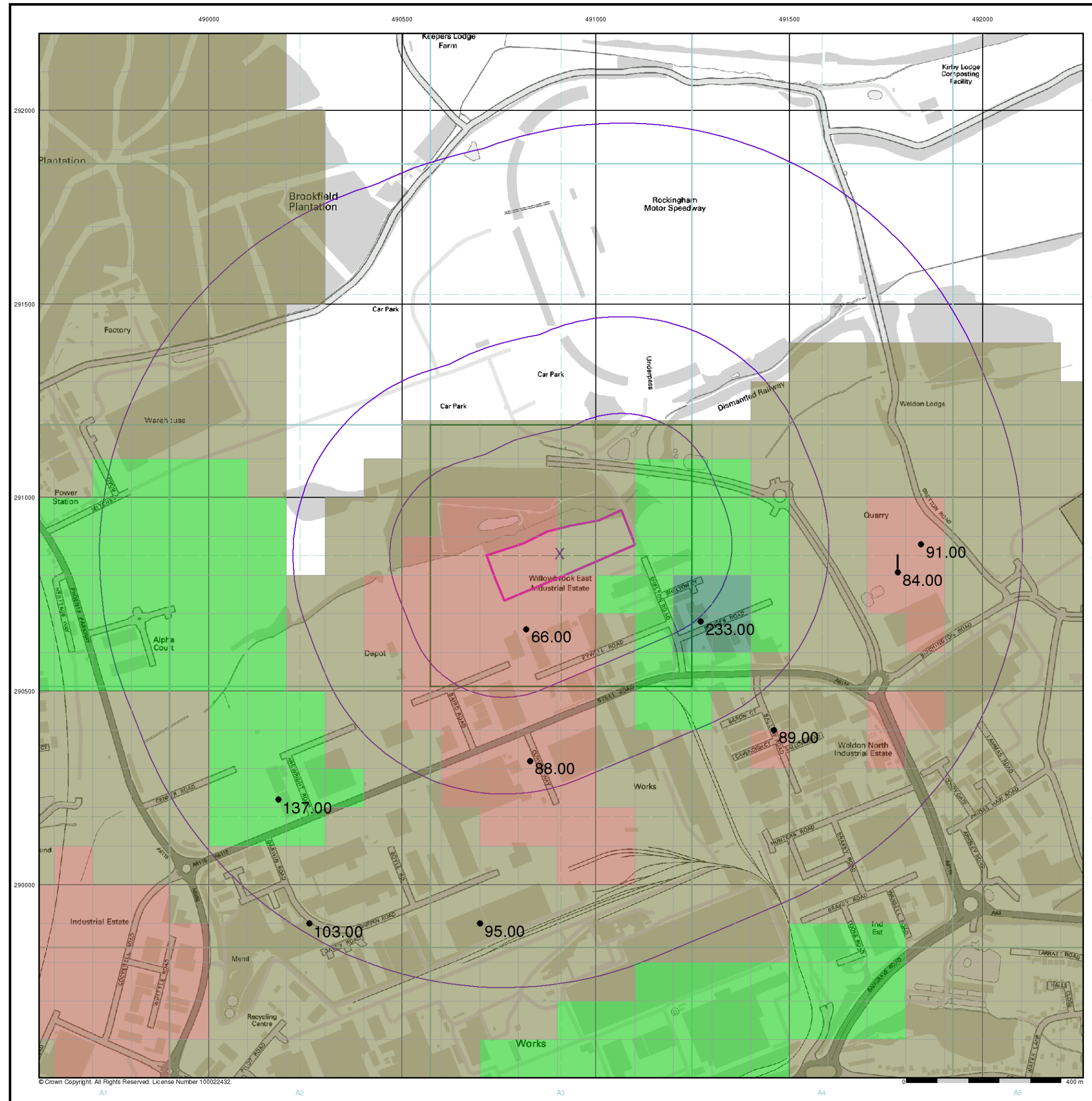


**Order Details**

Order Details: 69227499\_1\_1  
 Customer Ref: 15-0645.01  
 National Grid Reference: 490910, 290860  
 Slice: A  
 Site Area (Ha): 4.12  
 Search buffer (m): 1000

**Site Details**

Shelton Road, Willowbrook East Industrial Estate, CORBY, Northamptonshire, NN17 5XH

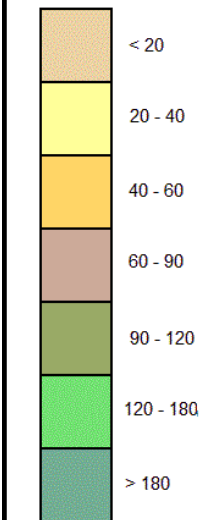


**General**

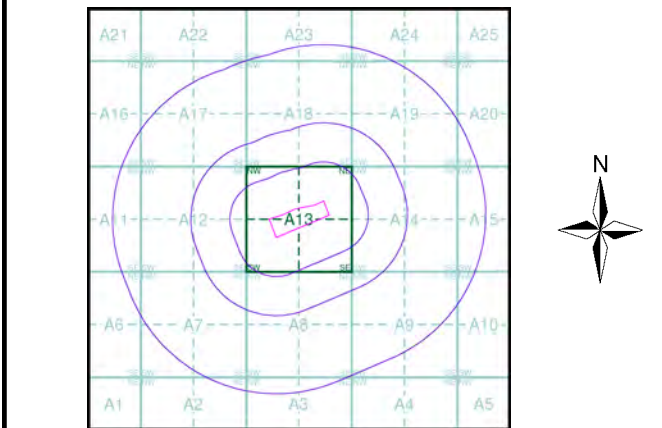
○ Specified Site    
 ○ Specified Buffer(s)    
 X Bearing Reference Point

**Estimated Soil Chemistry Chromium**

Chromium Concentrations mg/kg



**Estimated Soil Chemistry Chromium - Slice A**

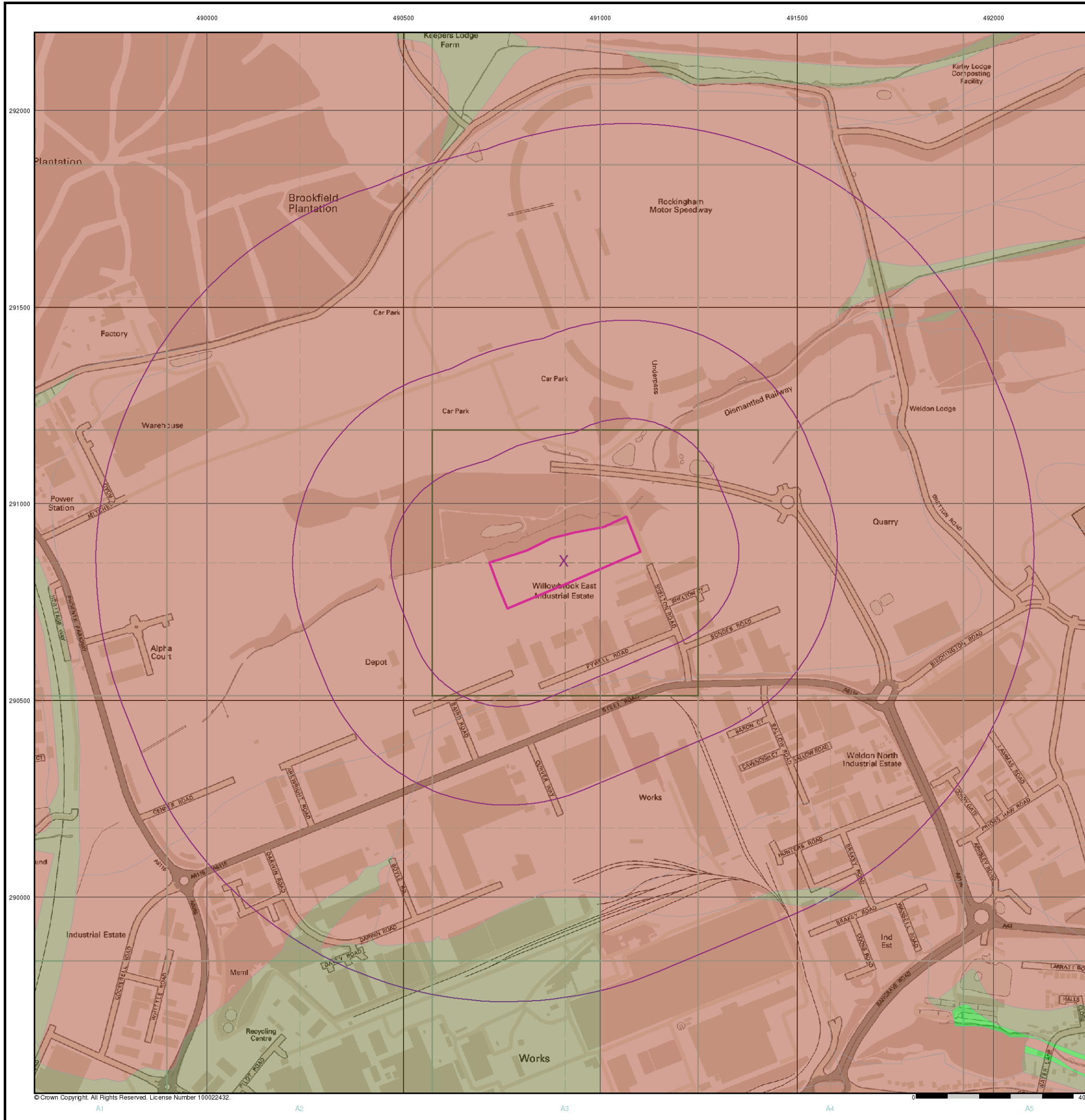


**Order Details**

Order Details: 69227499\_1\_1  
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**Site Details**

Shelton Road, Willowbrook East Industrial Estate, CORBY, Northamptonshire, NN17 5XH





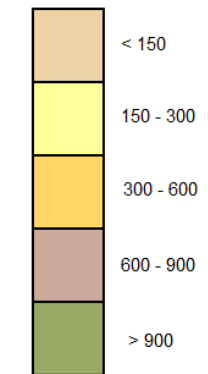
**General**

- ◊ Specified Site
- Specified Buffer(s)
- X Bearing Reference Point

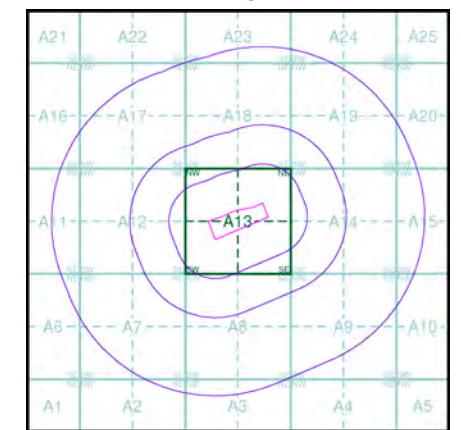
**Urban Soil Chemistry Lead**

● BGS Urban Soil Chemistry Measured Concentration Values (mg/kg)

Lead Concentrations mg/kg



**Urban Soil Chemistry Lead - Slice A**

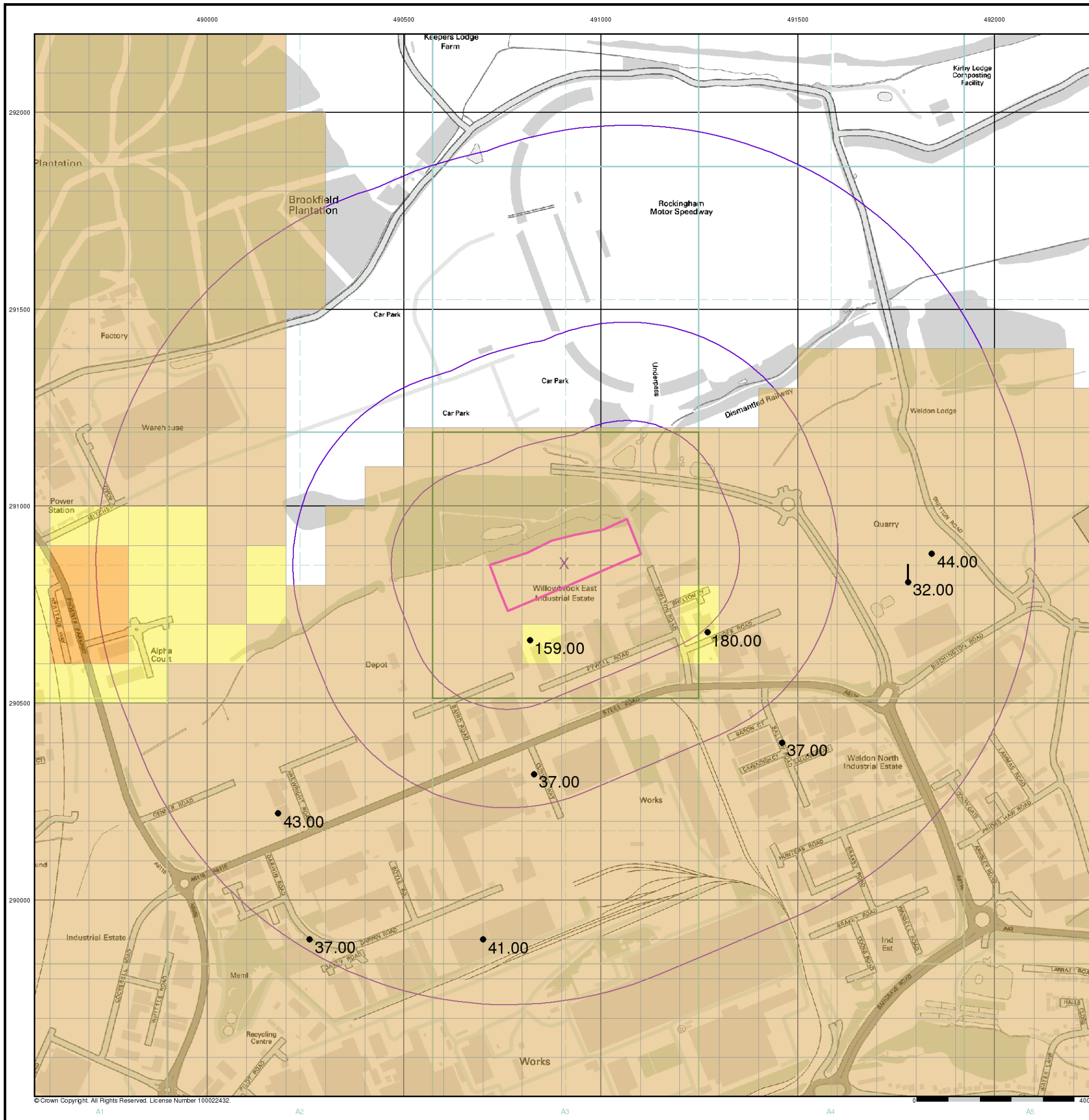


**Order Details**

Order Details: 69227499\_1\_1  
 Customer Ref: 15-0645.01  
 National Grid Reference: 490910, 290860  
 Slice: A  
 Site Area (Ha): 4.12  
 Search buffer (m): 1000

**Site Details**

Shelton Road, Willowbrook East Industrial Estate, CORBY, Northamptonshire, NN17 5XH



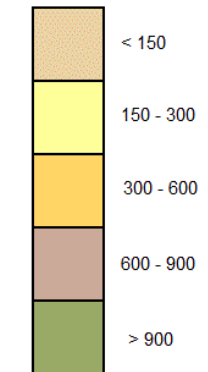
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**General**

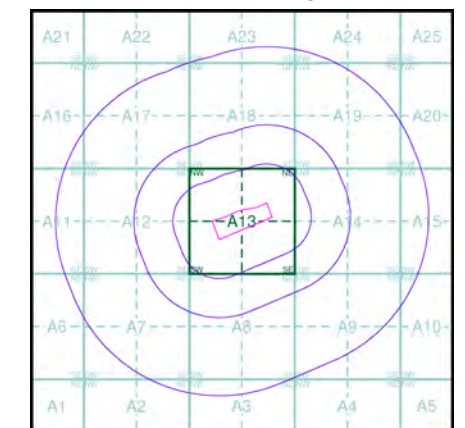
○ Specified Site    
 ○ Specified Buffer(s)    
 X Bearing Reference Point

**Estimated Soil Chemistry Lead**

Lead Concentrations mg/kg



**Estimated Soil Chemistry Lead - Slice A**

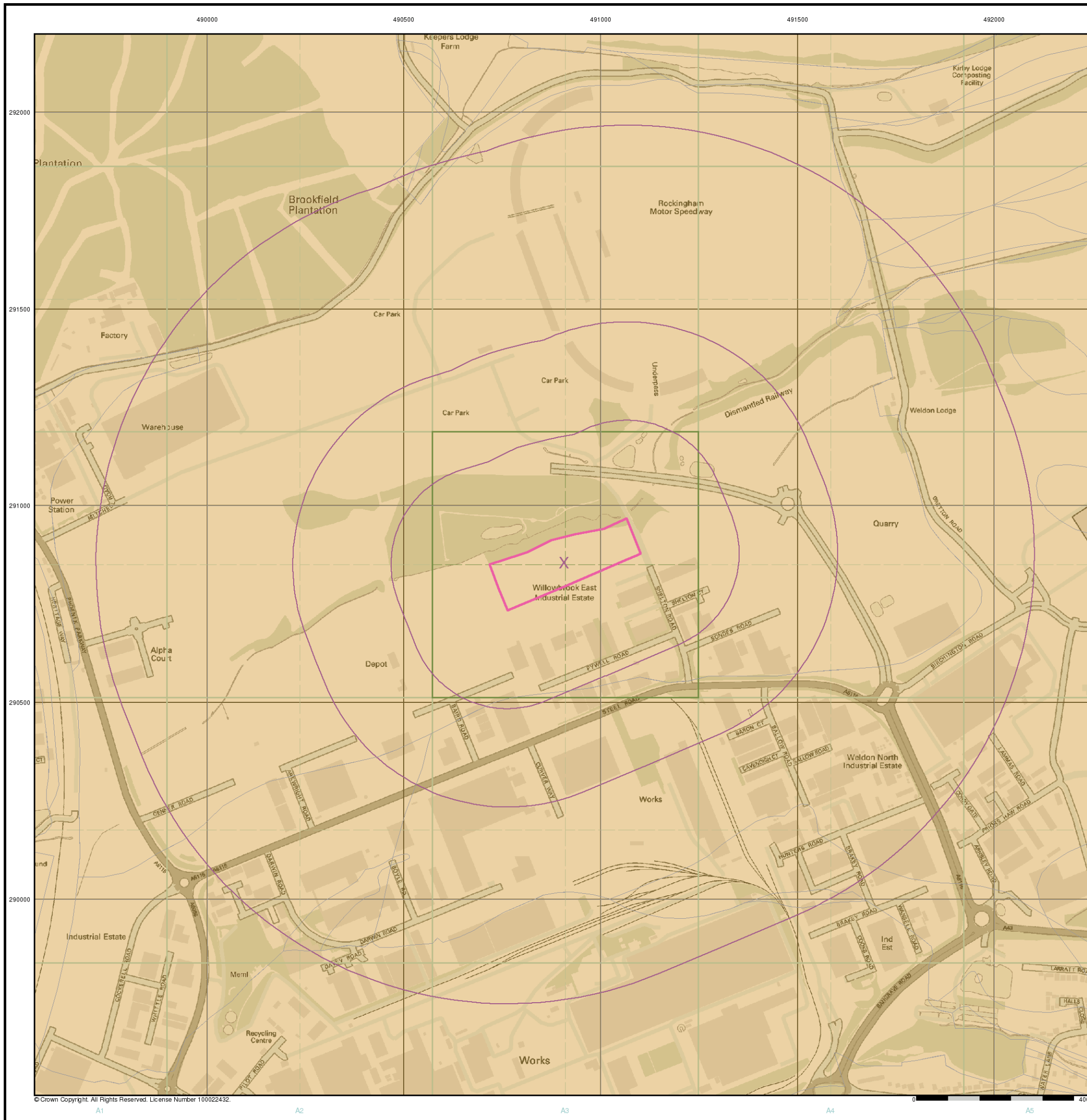


**Order Details**

Order Details: 69227499\_1\_1  
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 National Grid Reference: 490910, 290860  
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 Site Area (Ha): 4.12  
 Search buffer (m): 1000

**Site Details**

Shelton Road, Willowbrook East Industrial Estate, CORBY,  
 Northamptonshire, NN17 5XH



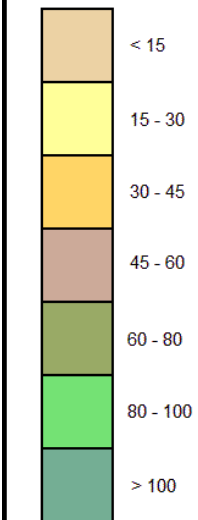
**General**

- Specified Site
- Specified Buffer(s)
- X Bearing Reference Point

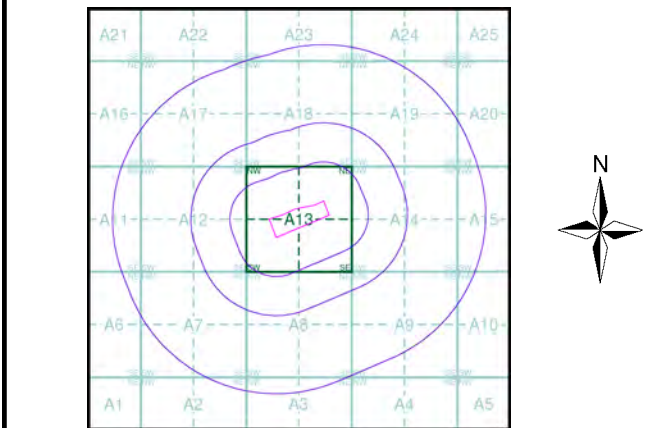
**Urban Soil Chemistry Nickel**

● BGS Urban Soil Chemistry Measured Concentration Values (mg/kg)

Nickel Concentrations mg/kg



**Urban Soil Chemistry Nickel - Slice A**

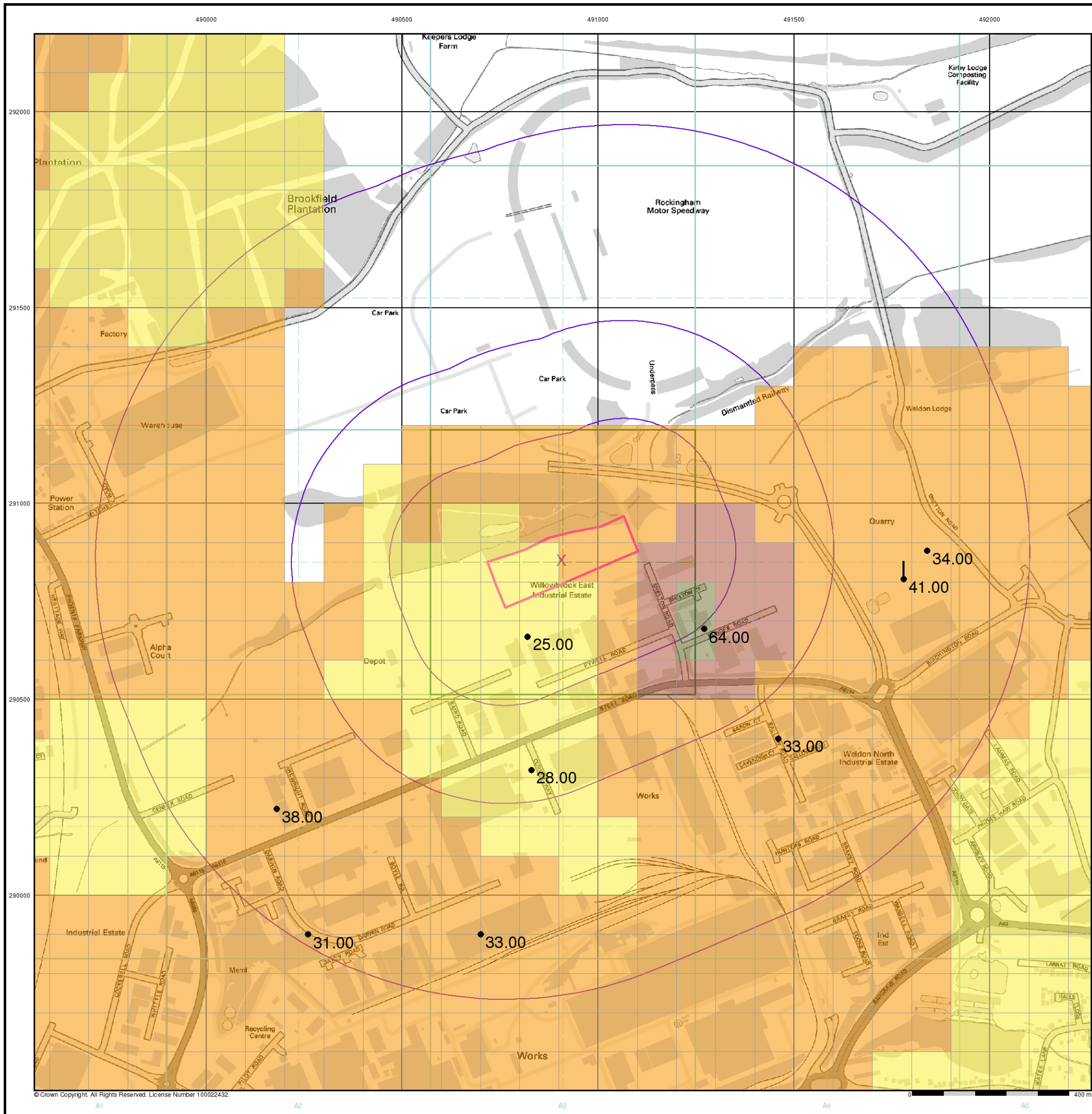


**Order Details**

Order Details: 69227499\_1\_1  
 Customer Ref: 15-0645.01  
 National Grid Reference: 490910, 290860  
 Slice: A  
 Site Area (Ha): 4.12  
 Search buffer (m): 1000

**Site Details**

Shelton Road, Willowbrook East Industrial Estate, CORBY, Northamptonshire, NN17 5XH



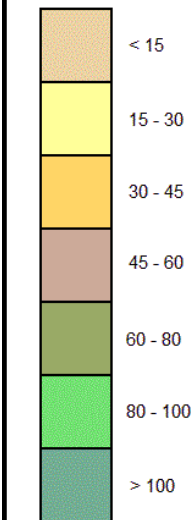
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**General**

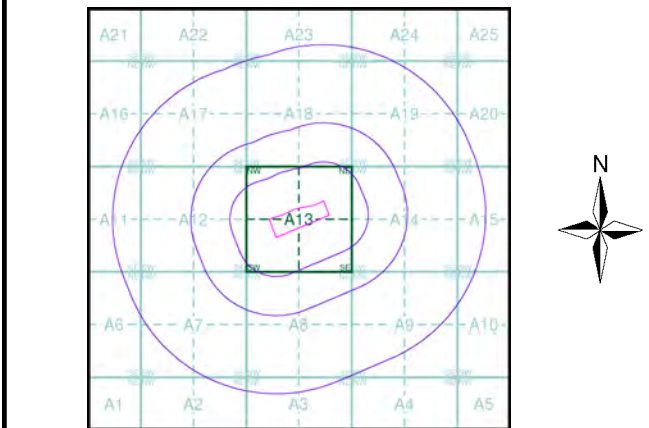
✱ Specified Site     
 ○ Specified Buffer(s)     
 ✕ Bearing Reference Point

**Estimated Soil Chemistry Nickel**

Nickel Concentrations mg/kg



**Estimated Soil Chemistry Nickel - Slice A**

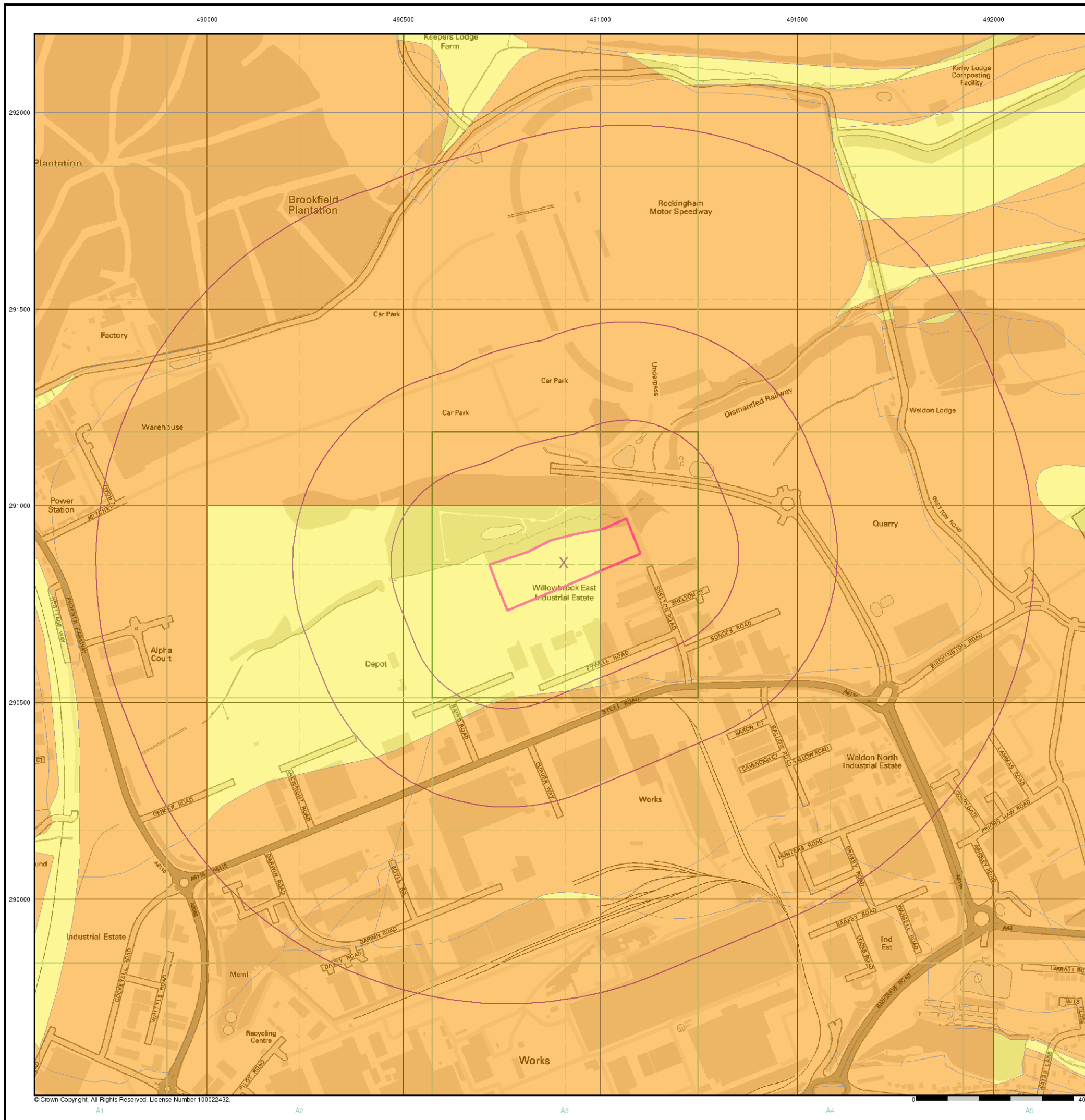


**Order Details**

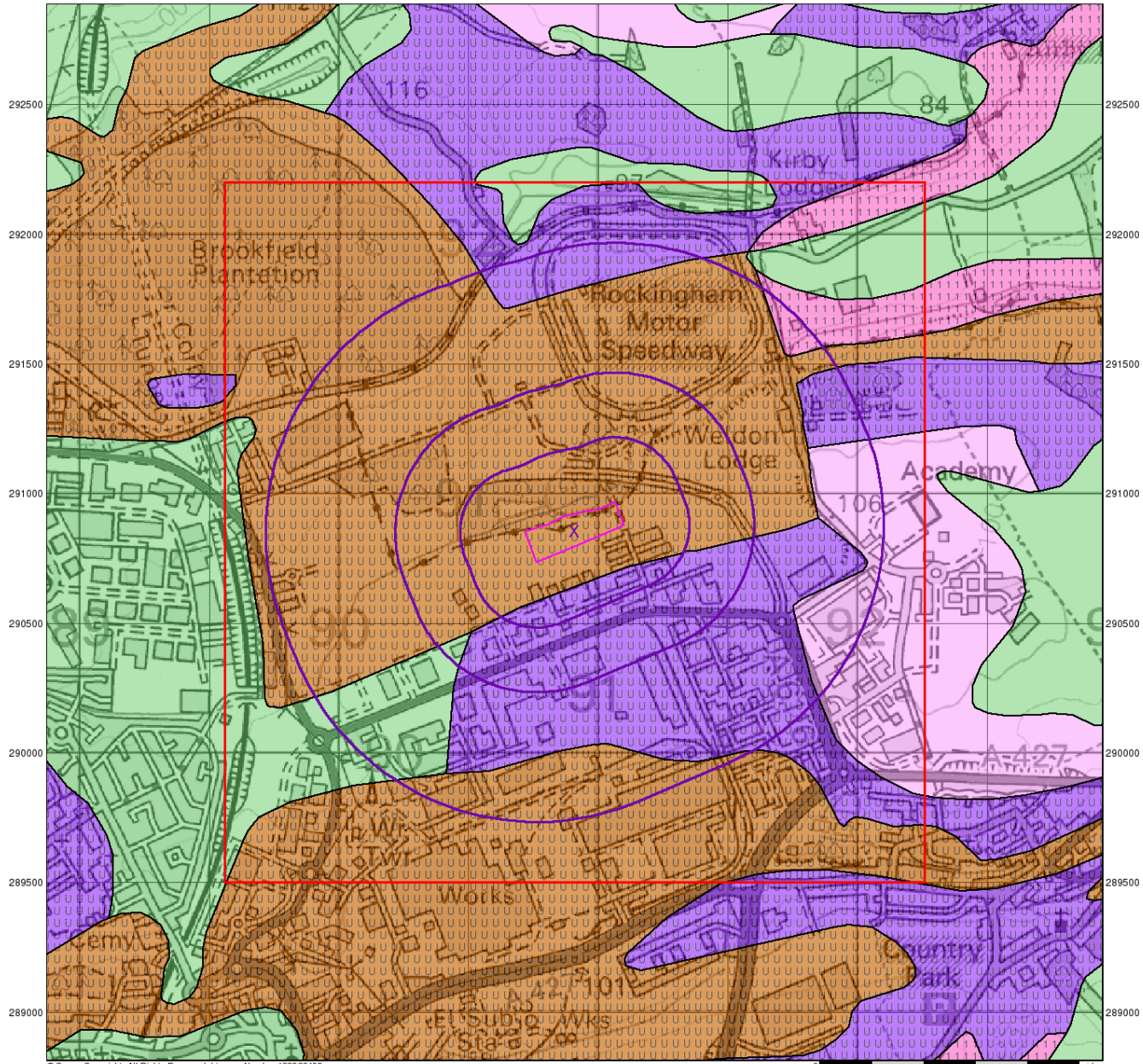
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 Customer Ref: 15-0645.01  
 National Grid Reference: 490910, 290860  
 Slice: A  
 Site Area (Ha): 4.12  
 Search buffer (m): 1000

**Site Details**

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489000 489500 490000 490500 491000 491500 492000 492500



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0 1 km



## Groundwater Vulnerability

### General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

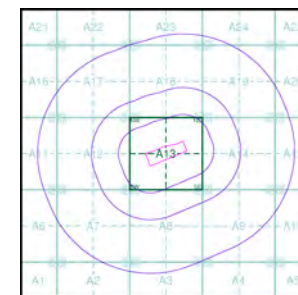
### Agency and Hydrological

#### Geological Classes

- Major Aquifer (Highly Permeable)**
  - High (H) 1, 2, 3, U
  - Intermediate (I) 1, 2
  - Low
- Minor Aquifer (Variably Permeable)**
  - High (H) 1, 2, 3, U
  - Intermediate (I) 1, 2
  - Low
- Non Aquifer (Negligibly Permeable)**
  -
- Water or Sea**
  -
- Drift Deposit**
  -

#### Soil Classes

### Site Sensitivity Context Map - Slice A



### Order Details

Order Number: 69227499\_1\_1  
 Customer Ref: 15-0645.01  
 National Grid Reference: 490910, 290860  
 Slice: A  
 Site Area (Ha): 4.12  
 Search Buffer (m): 1000

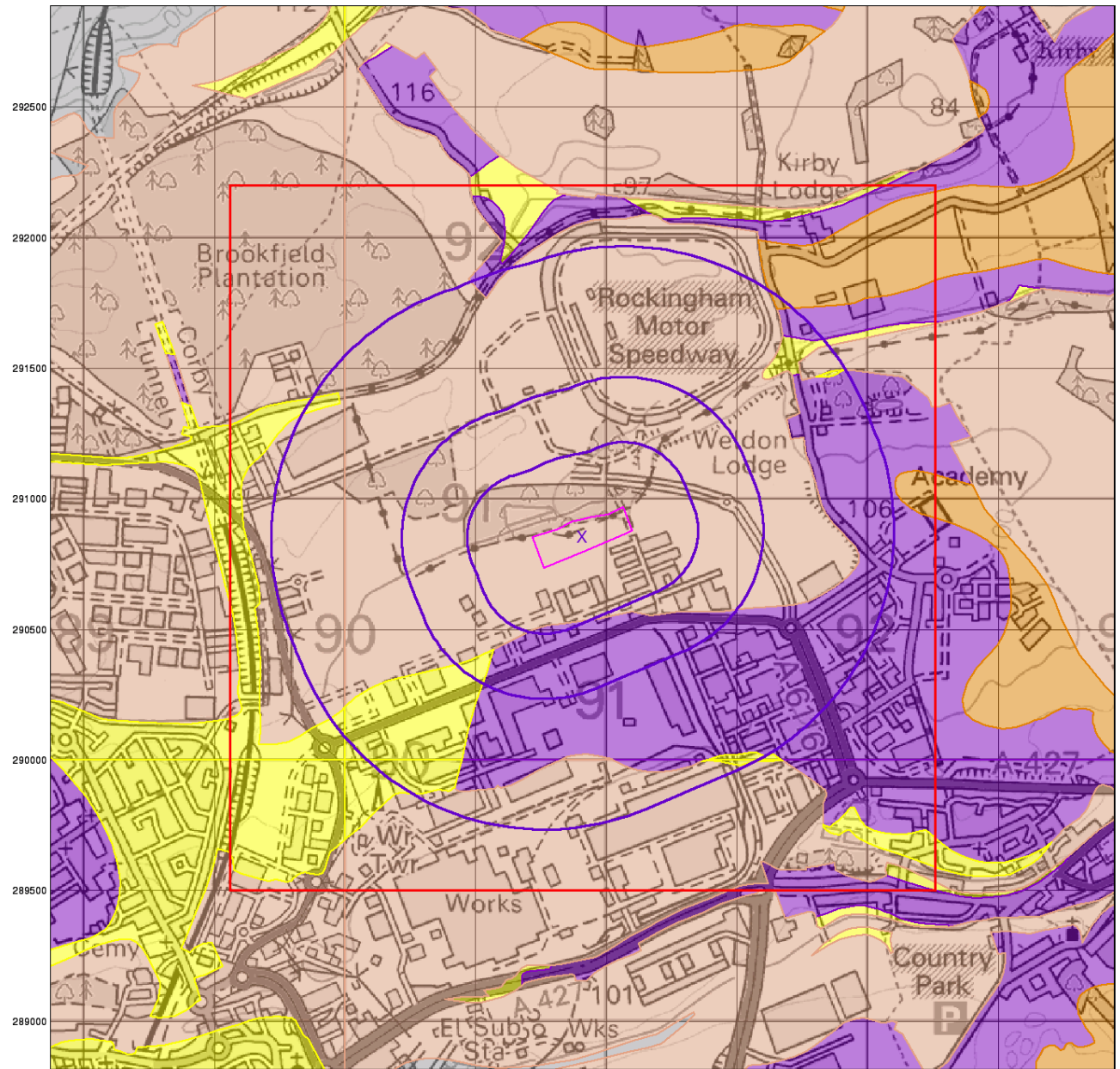
### Site Details

Shelton Road, Willowbrook East Industrial Estate, CORBY,  
 Northamptonshire, NN17 5XH



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 Fax: 0844 844 9951  
 Web: www.envirocheck.co.uk

489000 489500 490000 490500 491000 491500 492000 492500



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0 1 km



## Bedrock Aquifer Designation

### General

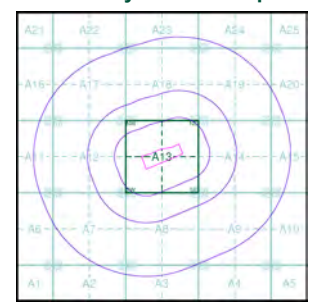
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

### Agency and Hydrological

#### Geological Classes

- Principal Aquifer
- Secondary A Aquifer
- Secondary B Aquifer
- Secondary Undifferentiated
- Unproductive Strata
- Unknown

### Site Sensitivity Context Map - Slice A



### Order Details

Order Number: 69227499\_1\_1  
 Customer Ref: 15-0645.01  
 National Grid Reference: 490910, 290860  
 Slice: A  
 Site Area (Ha): 4.12  
 Search Buffer (m): 1000

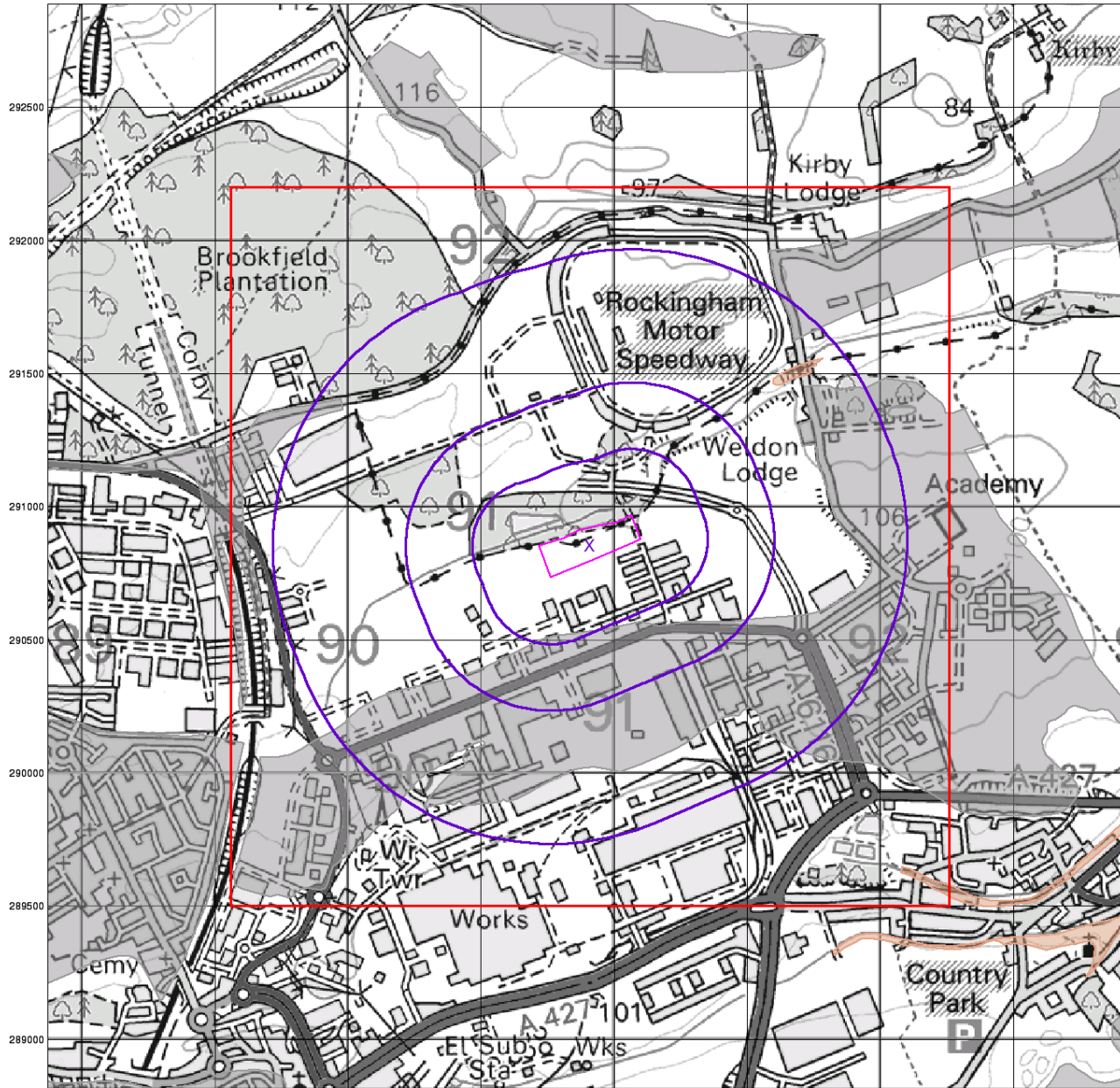
### Site Details

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## Superficial Aquifer Designation

### General

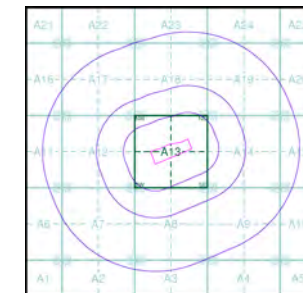
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

### Agency and Hydrological

#### Geological Classes

- Principal Aquifer
- Secondary A Aquifer
- Secondary B Aquifer
- Secondary Undifferentiated
- Unproductive Strata
- Unknown

### Site Sensitivity Context Map - Slice A



### Order Details

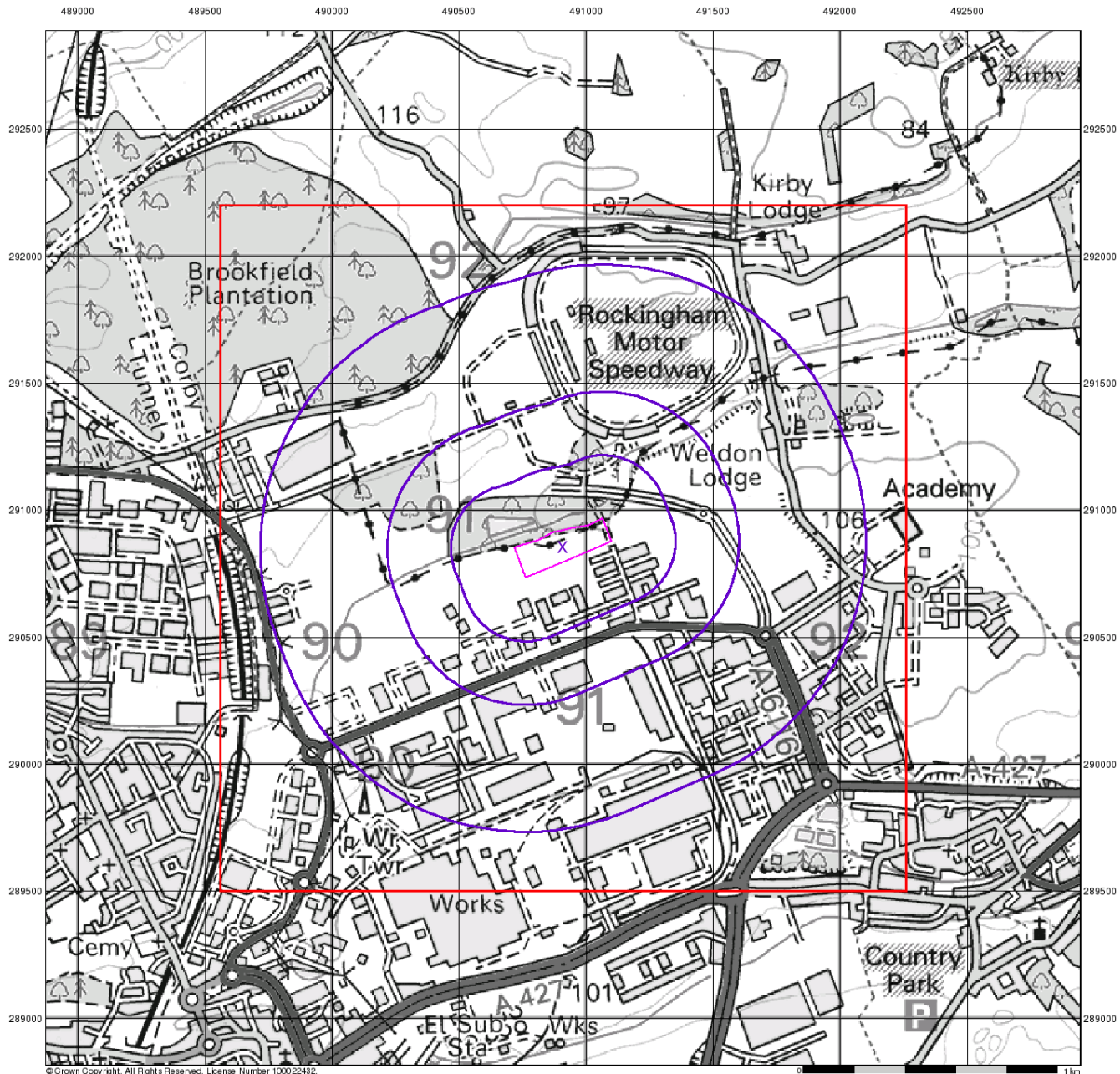
Order Number: 69227499\_1\_1  
 Customer Ref: 15-0645.01  
 National Grid Reference: 490910, 290860  
 Slice: A  
 Site Area (Ha): 4.12  
 Search Buffer (m): 1000

### Site Details

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## Source Protection Zones

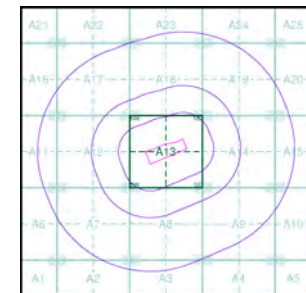
### General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

### Agency and Hydrological

- Inner zone (Zone 1)
- Inner zone - subsurface activity only (Zone 1c)
- Outer zone (Zone 2)
- Outer zone - subsurface activity only (Zone 2c)
- Total catchment (Zone 3)
- Total catchment - subsurface activity only (Zone 3c)
- Special interest (Zone 4)
- Source Protection Zone Borehole

### Site Sensitivity Context Map - Slice A



### Order Details

Order Number: 69227499\_1\_1  
 Customer Ref: 15-0645.01  
 National Grid Reference: 490910, 290860  
 Slice: A  
 Site Area (Ha): 4.12  
 Search Buffer (m): 1000

### Site Details

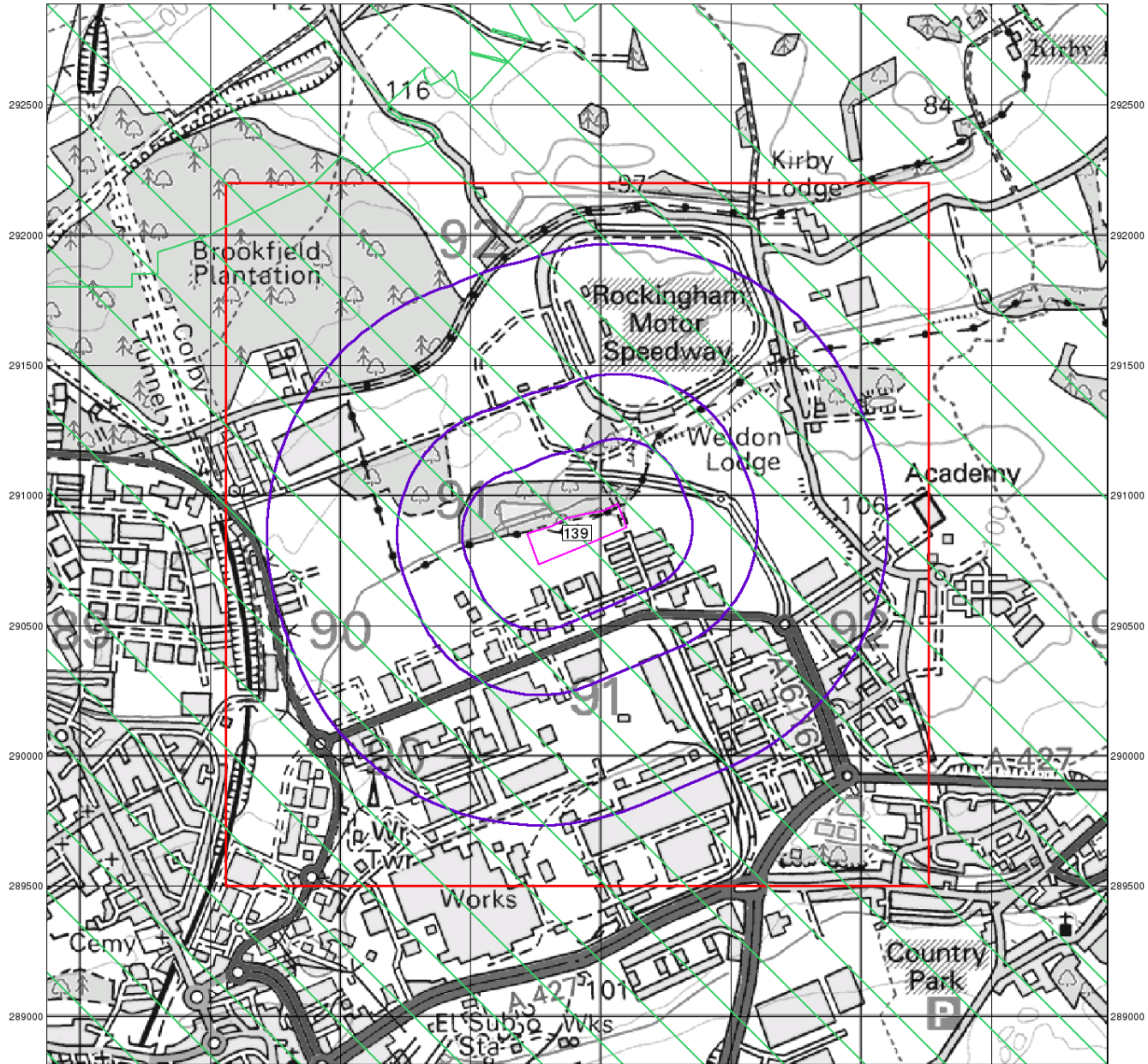
Shelton Road, Willowbrook East Industrial Estate, CORBY,  
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 Web: www.envirocheck.co.uk



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## Sensitive Land Uses

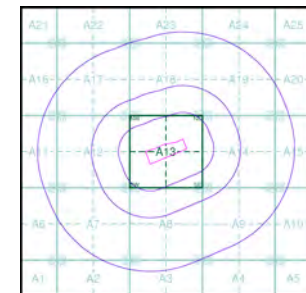
### General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

### Sensitive Land Uses

- Area of Adopted Green Belt
- Area of Unadopted Green Belt
- Area of Outstanding Natural Beauty
- Environmentally Sensitive Area
- Forest Park
- Local Nature Reserve
- Marine Nature Reserve
- National Nature Reserve
- National Park
- Nitrate Sensitive Area
- Nitrate Vulnerable Zone
- Ramsar Site
- Site of Special Scientific Interest
- Special Area of Conservation
- Special Protection Area

### Site Sensitivity Context Map - Slice A



### Order Details

Order Number: 69227499\_1\_1  
 Customer Ref: 15-0645.01  
 National Grid Reference: 490910, 290860  
 Slice: A  
 Site Area (Ha): 4.12  
 Search Buffer (m): 1000

### Site Details

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# Historical Mapping Legends

## Ordnance Survey County Series 1:10,560

	Gravel Pit		Sand Pit		Other Pits
	Quarry		Shingle		Orchard
	Osiers		Reeds		Marsh
	Mixed Wood		Deciduous		Brushwood
	Fir		Furze		Rough Pasture
	Arrow denotes flow of water		Trigonometrical Station		
	Site of Antiquities		Bench Mark		
	Pump, Guide Post, Signal Post		Well, Spring, Boundary Post		
	<b>-285</b> Surface Level				
	Sketched Contour		Instrumental Contour		
	Main Roads		Minor Roads		
	Sunken Road		Raised Road		
	Road over Railway		Railway over River		
	Railway over Road		Level Crossing		
	Road over River or Canal		Road over Stream		
	Road over Stream				
	County Boundary (Geographical)				
	County & Civil Parish Boundary				
	Administrative County & Civil Parish Boundary				
	County Borough Boundary (England)				
	County Burgh Boundary (Scotland)				
	Rural District Boundary				
	Civil Parish Boundary				

## Ordnance Survey Plan 1:10,000

	Chalk Pit, Clay Pit or Quarry		Gravel Pit
	Sand Pit		Disused Pit or Quarry
	Refuse or Slag Heap		Lake, Loch or Pond
	Dunes		Boulders
	Coniferous Trees		Non-Coniferous Trees
	Orchard		Scrub
	Coppice		Heath
	Rough Grassland		Marsh
	Reeds		Saltings
	Building		Glasshouse
	Sloping Masonry		Pylon
	Electricity Transmission Line		Pole
	Cutting		Embankment
	Standard Gauge Multiple Track		Standard Gauge Single Track
	Siding, Tramway or Mineral Line		Narrow Gauge
	Geographical County		
	Administrative County, County Borough or County of City		
	Municipal Borough, Urban or Rural District, Burgh or District Council		
	Borough, Burgh or County Constituency Shown only when not coincident with other boundaries		
	Civil Parish Shown alternately when coincidence of boundaries occurs		
	BP, BS Boundary Post or Stone		Pol Sta Police Station
	Ch Church		PO Post Office
	CH Club House		PC Public Convenience
	F E Sta Fire Engine Station		PH Public House
	FB Foot Bridge		SB Signal Box
	Fn Fountain		Spr Spring
	GP Guide Post		TCB Telephone Call Box
	MP Mile Post		TCP Telephone Call Post
	MS Mile Stone		W Well

## 1:10,000 Raster Mapping

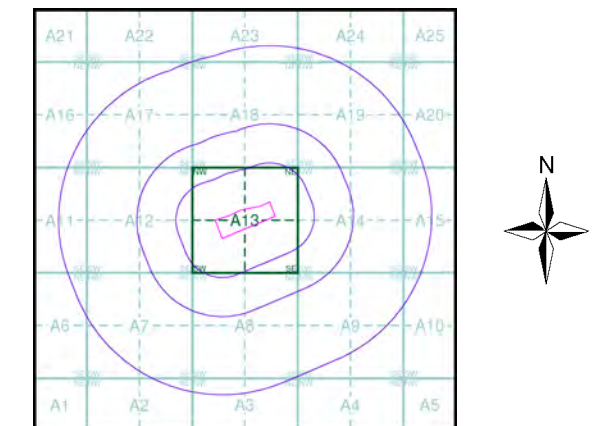
	Gravel Pit		Refuse tip or slag heap
	Rock		Rock (scattered)
	Boulders		Boulders (scattered)
	Shingle		Mud
	Sand		Sand Pit
	Slopes		Top of cliff
	General detail		Underground detail
	Overhead detail		Narrow gauge railway
	Multi-track railway		Single track railway
	County boundary (England only)		Civil, parish or community boundary
	District, Unitary, Metropolitan, London Borough boundary		Constituency boundary
	Area of wooded vegetation		Non-coniferous trees
	Non-coniferous trees (scattered)		Coniferous trees
	Coniferous trees (scattered)		Positioned tree
	Orchard		Coppice or Osiers
	Rough Grassland		Heath
	Scrub		Marsh, Salt Marsh or Reeds
	Water feature		Flow arrows
	MHW(S) Mean high water (springs)		MLW(S) Mean low water (springs)
	Telephone line (where shown)		Electricity transmission line (with poles)
	Bench mark (where shown)		Triangulation station
	Point feature (e.g. Guide Post or Mile Stone)		Pylon, flare stack or lighting tower
	Site of (antiquity)		Glasshouse
	General Building		Important Building



## Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Northamptonshire	1:10,560	1885	2
Northamptonshire	1:10,560	1901	3
Northamptonshire	1:10,560	1901	4
Northamptonshire	1:10,560	1938 - 1950	5
Northamptonshire	1:10,560	1952	6
Ordnance Survey Plan	1:10,000	1958	7
Ordnance Survey Plan	1:10,000	1967 - 1968	8
Ordnance Survey Plan	1:10,000	1974 - 1975	9
Ordnance Survey Plan	1:10,000	1982 - 1987	10
Ordnance Survey Plan	1:10,000	1988	11
Ordnance Survey Plan	1:10,000	1992	12
10K Raster Mapping	1:10,000	2006	13
VectorMap Local	1:10,000	2015	14

## Historical Map - Slice A



## Order Details

Order Number: 69227499\_1\_1  
 Customer Ref: 15-0645.01  
 National Grid Reference: 490910, 290860  
 Slice: A  
 Site Area (Ha): 4.12  
 Search Buffer (m): 1000

## Site Details

Shelton Road, Willowbrook East Industrial Estate, CORBY, Northamptonshire, NN17 5XH



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## Northamptonshire

Published 1885

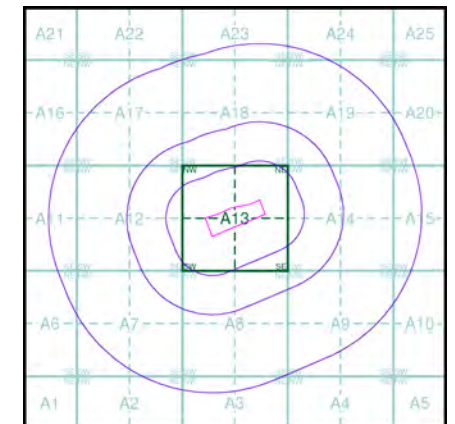
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

### Map Name(s) and Date(s)

011SE	1885	1:10,560
017NE	1885	1:10,560

### Historical Map - Slice A

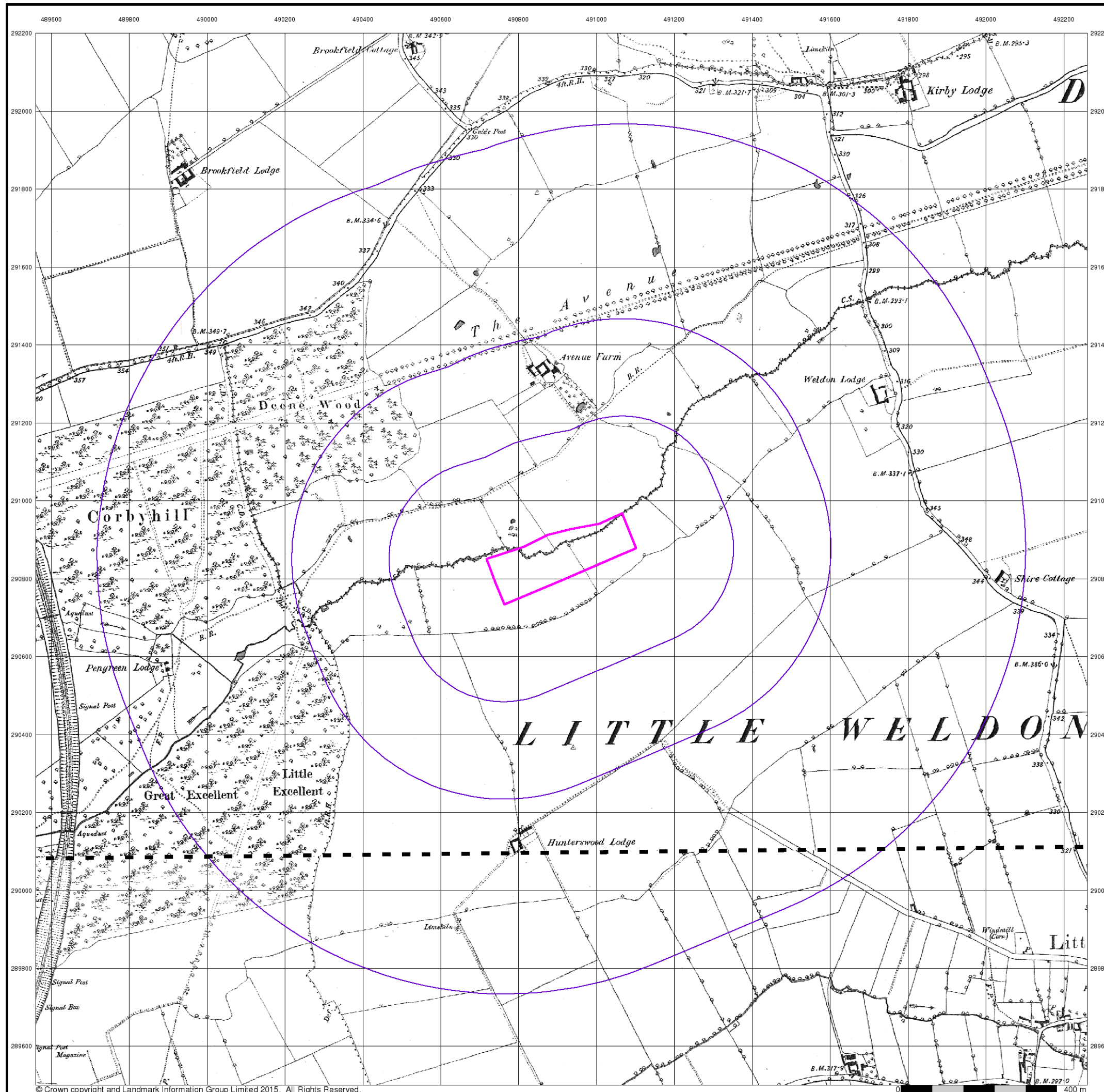


### Order Details

Order Number: 69227499\_1\_1  
 Customer Ref: 15-0645.01  
 National Grid Reference: 490910, 290860  
 Slice: A  
 Site Area (Ha): 4.12  
 Search Buffer (m): 1000

### Site Details

Shelton Road, Willowbrook East Industrial Estate, CORBY,  
 Northamptonshire, NN17 5XH

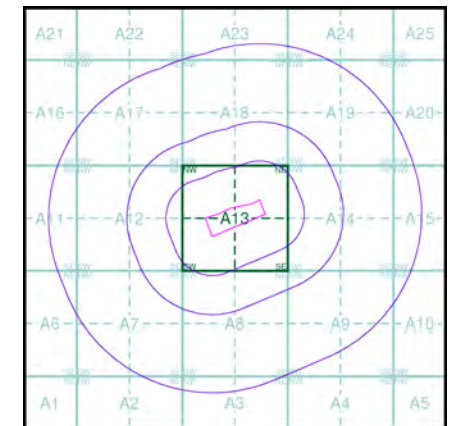


The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

011SE	1901	1:10,560
017NE	1901	1:10,560

Historical Map - Slice A

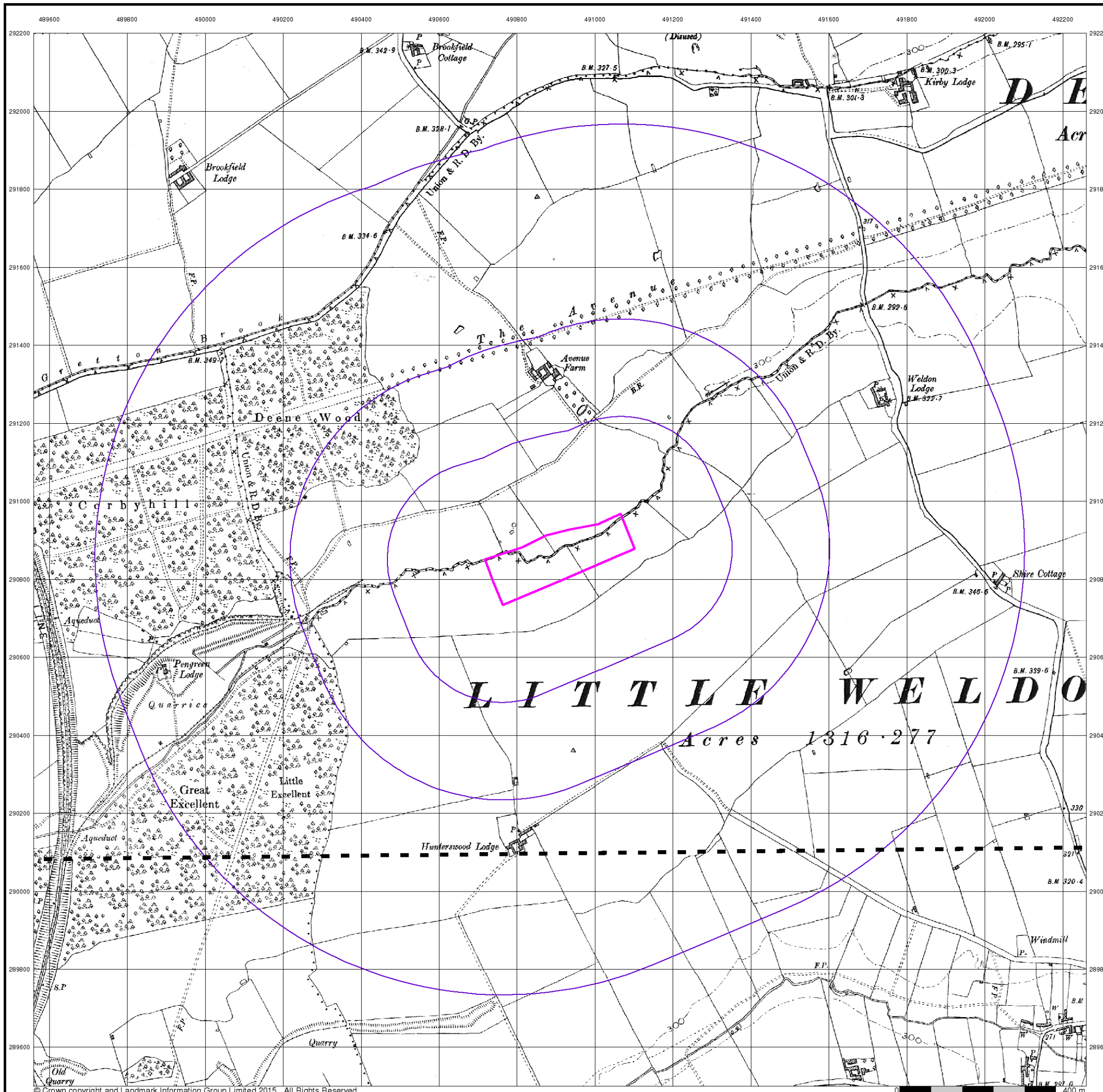


Order Details

Order Number: 69227499\_1\_1  
 Customer Ref: 15-0645.01  
 National Grid Reference: 490910, 290860  
 Slice: A  
 Site Area (Ha): 4.12  
 Search Buffer (m): 1000

Site Details

Shelton Road, Willowbrook East Industrial Estate, CORBY, Northamptonshire, NN17 5XH



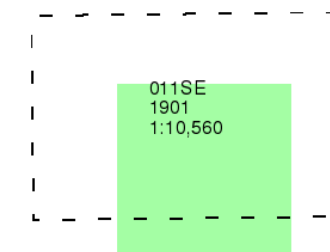
## Northamptonshire

Published 1901

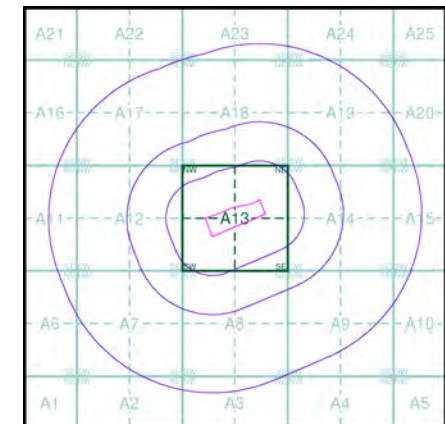
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

### Map Name(s) and Date(s)



### Historical Map - Slice A



### Order Details

Order Number: 69227499\_1\_1  
 Customer Ref: 15-0645.01  
 National Grid Reference: 490910, 290860  
 Slice: A  
 Site Area (Ha): 4.12  
 Search Buffer (m): 1000

### Site Details

Shelton Road, Willowbrook East Industrial Estate, CORBY,  
 Northamptonshire, NN17 5XH



## Northamptonshire

Published 1938 - 1950

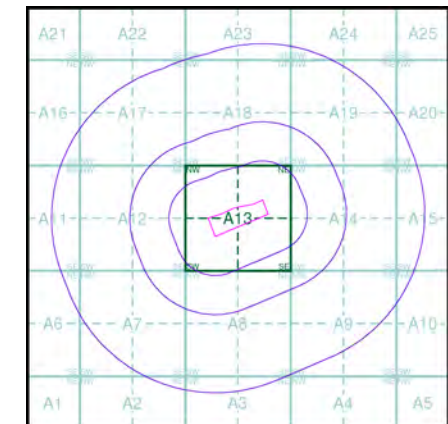
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

### Map Name(s) and Date(s)

011SE	1950	1:10,560
017NE	1938	1:10,560

### Historical Map - Slice A

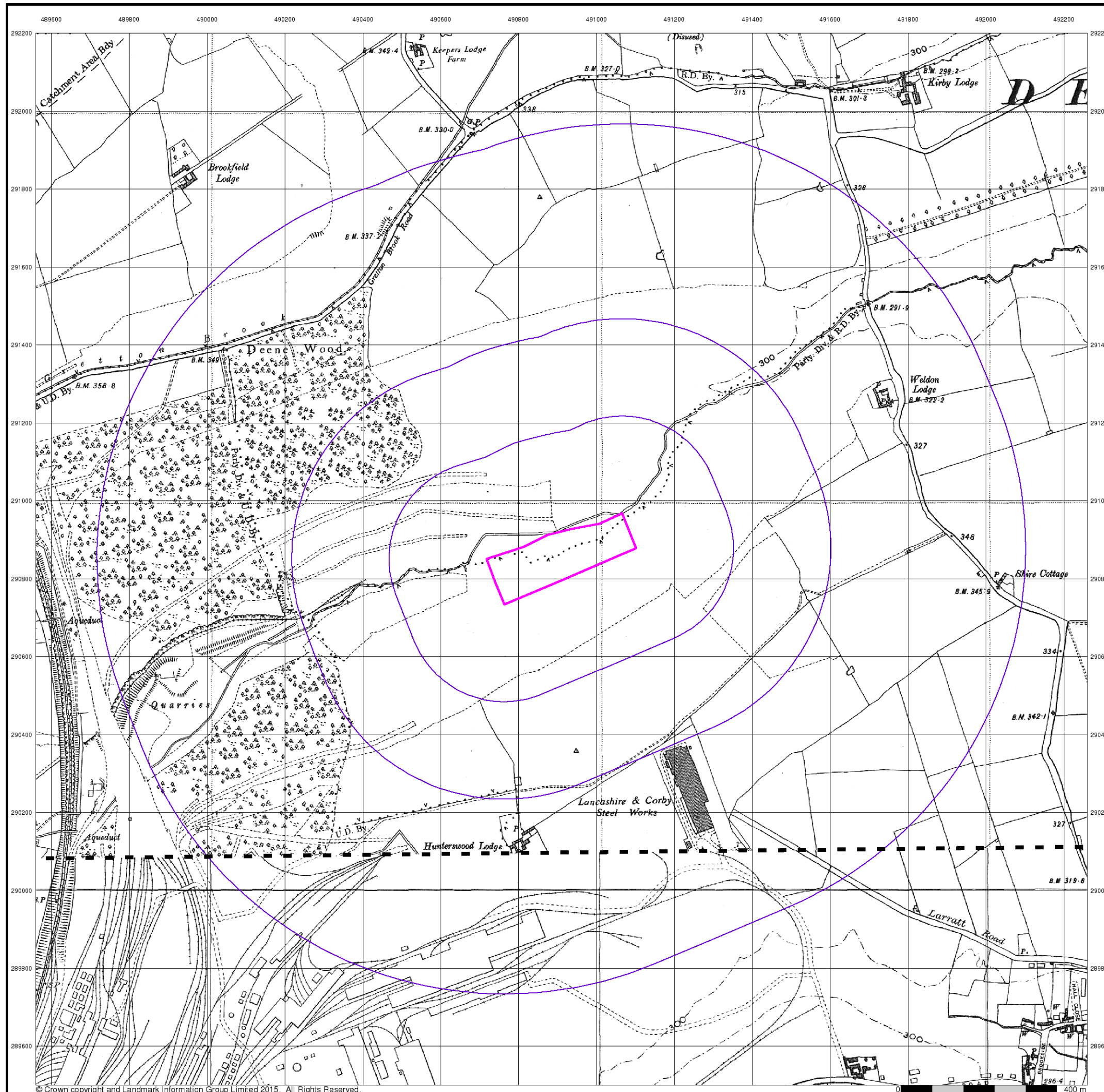


### Order Details

Order Number: 69227499\_1\_1  
 Customer Ref: 15-0645.01  
 National Grid Reference: 490910, 290860  
 Slice: A  
 Site Area (Ha): 4.12  
 Search Buffer (m): 1000

### Site Details

Shelton Road, Willowbrook East Industrial Estate, CORBY,  
 Northamptonshire, NN17 5XH



## Northamptonshire

Published 1952

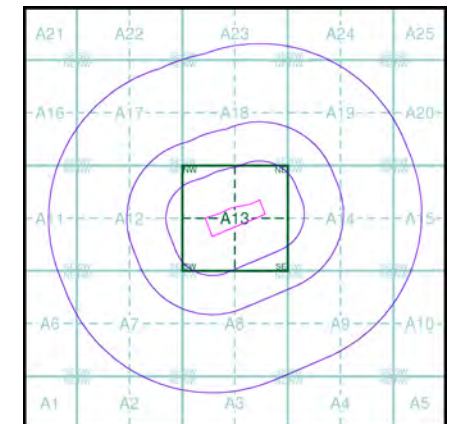
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

### Map Name(s) and Date(s)

011SE	1952	1:10,560
017NE	1952	1:10,560

### Historical Map - Slice A

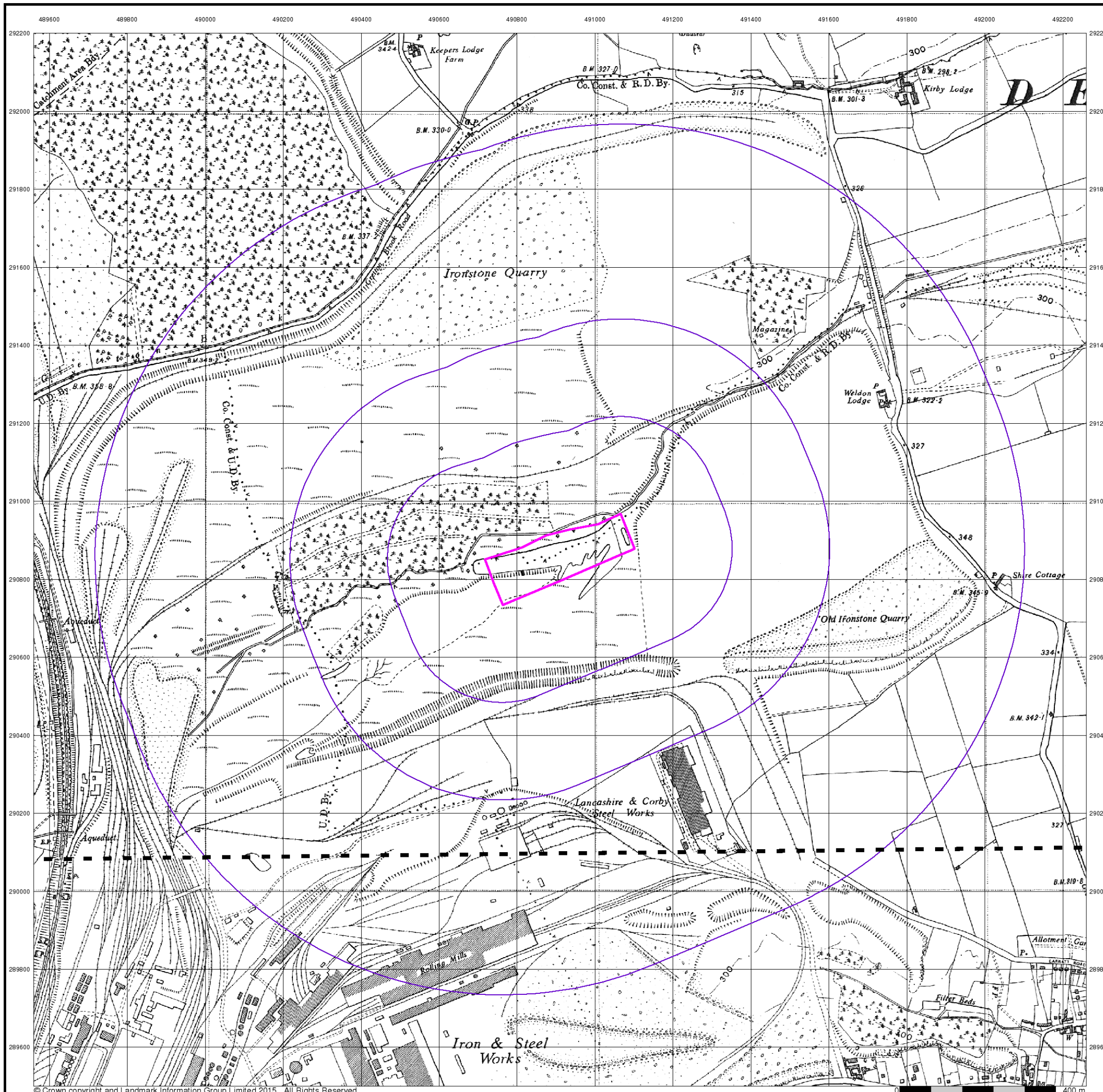


### Order Details

Order Number: 69227499\_1\_1  
 Customer Ref: 15-0645.01  
 National Grid Reference: 490910, 290860  
 Slice: A  
 Site Area (Ha): 4.12  
 Search Buffer (m): 1000

### Site Details

Shelton Road, Willowbrook East Industrial Estate, CORBY,  
 Northamptonshire, NN17 5XH





## Ordnance Survey Plan

Published 1958

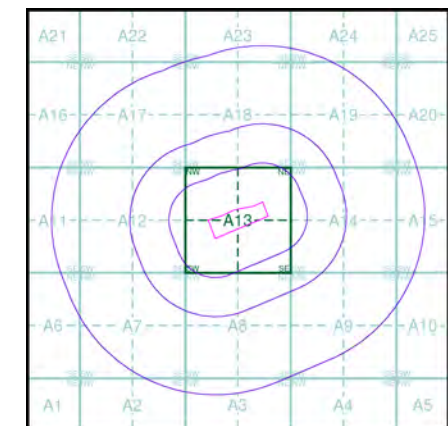
Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

### Map Name(s) and Date(s)

SP89SE	SP99SW
1958	1958
1:10,560	1:10,560
SP88NE	SP98NW
1958	1958
1:10,560	1:10,560

### Historical Map - Slice A

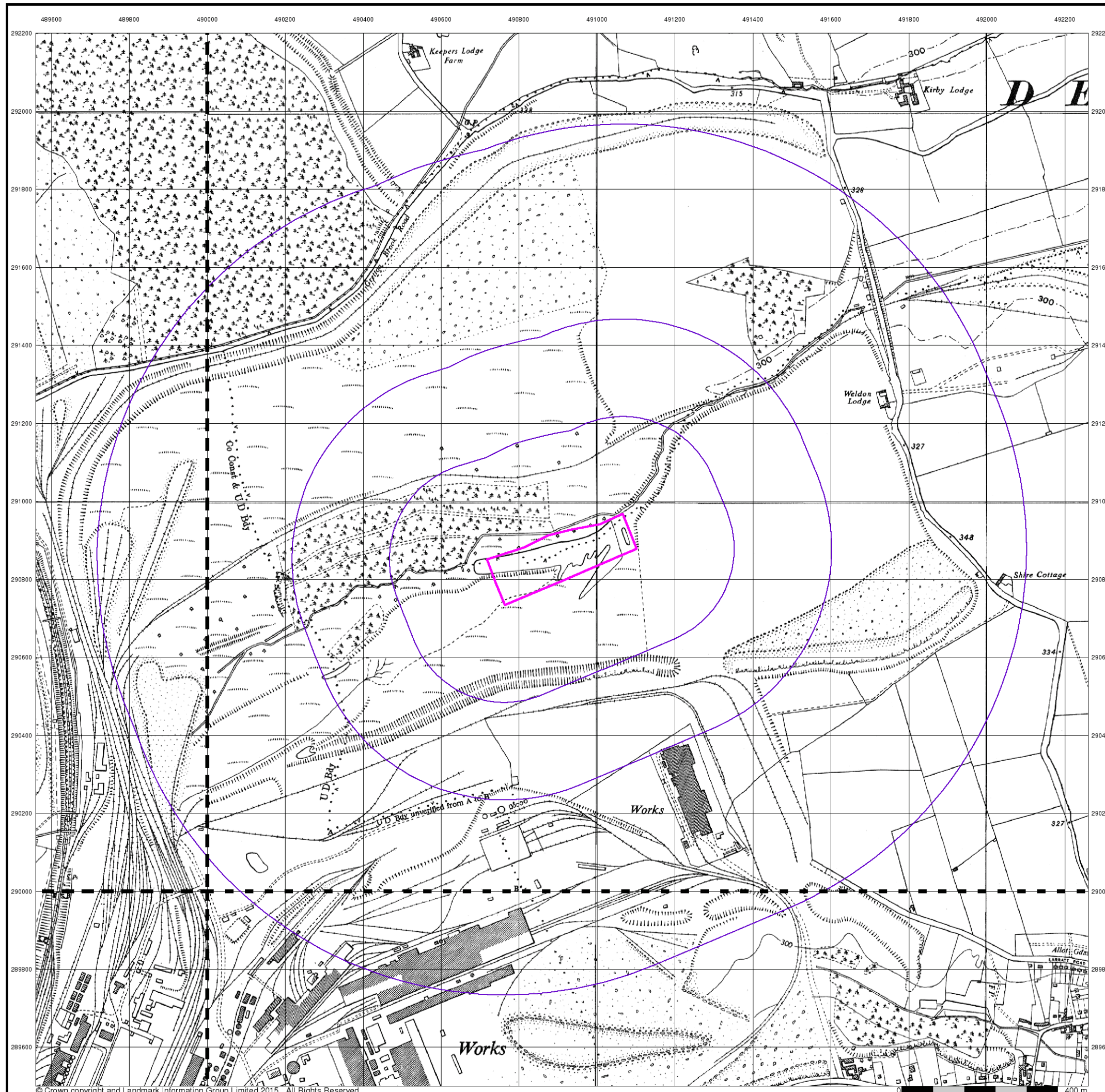


### Order Details

Order Number: 69227499\_1\_1  
 Customer Ref: 15-0645.01  
 National Grid Reference: 490910, 290860  
 Slice: A  
 Site Area (Ha): 4.12  
 Search Buffer (m): 1000

### Site Details

Shelton Road, Willowbrook East Industrial Estate, CORBY,  
 Northamptonshire, NN17 5XH



## Ordnance Survey Plan

Published 1967 - 1968

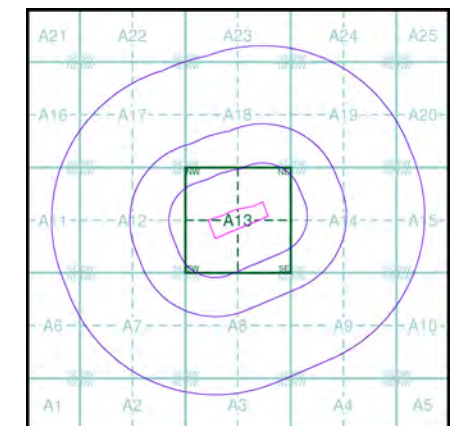
Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

### Map Name(s) and Date(s)

SP89SE	1968	1:10,560
SP88NE	1968	1:10,560
SP98NW	1967	1:10,560

### Historical Map - Slice A

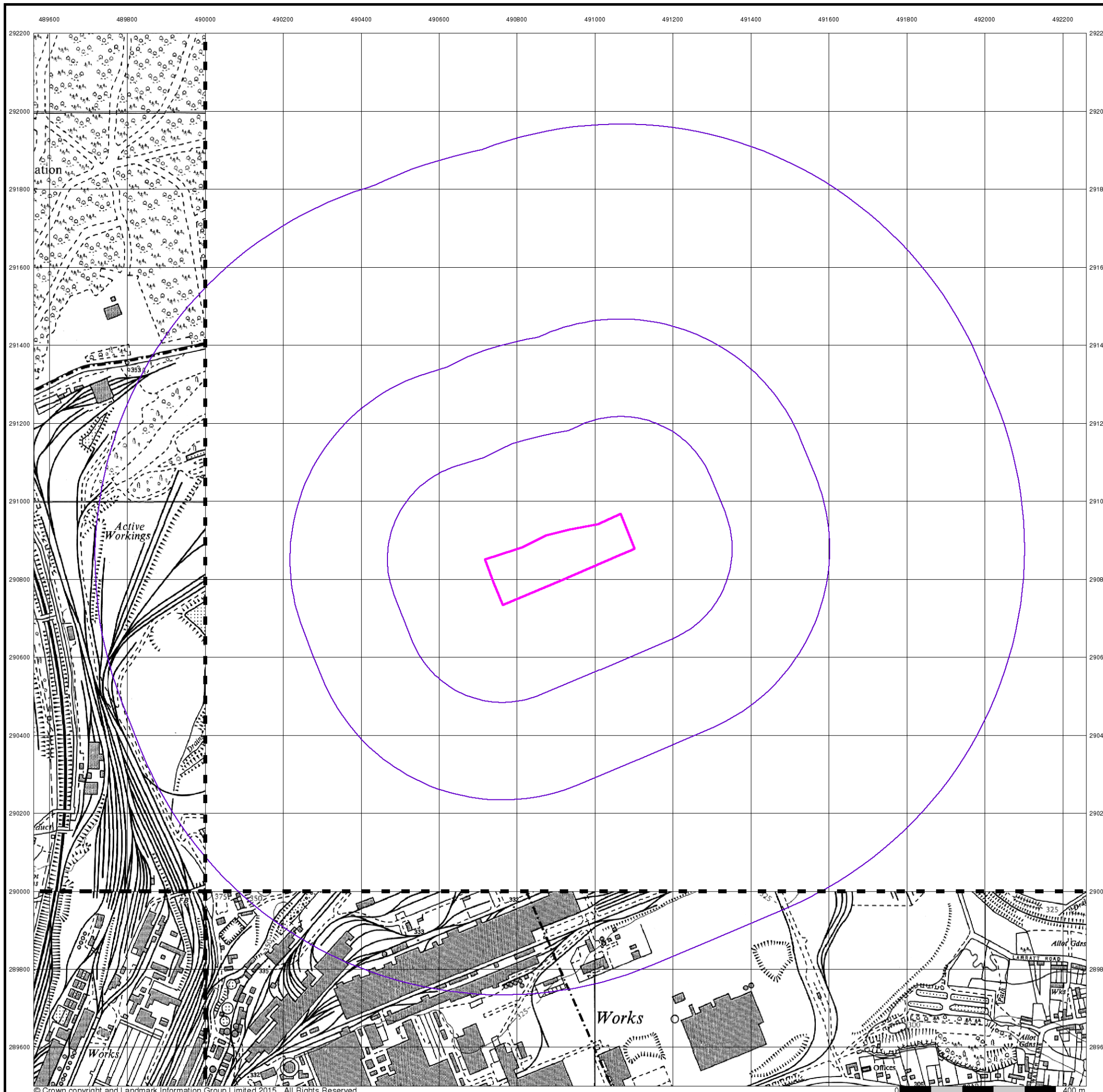


### Order Details

Order Number: 69227499\_1\_1  
 Customer Ref: 15-0645.01  
 National Grid Reference: 490910, 290860  
 Slice: A  
 Site Area (Ha): 4.12  
 Search Buffer (m): 1000

### Site Details


Shelton Road, Willowbrook East Industrial Estate, CORBY,  
 Northamptonshire, NN17 5XH



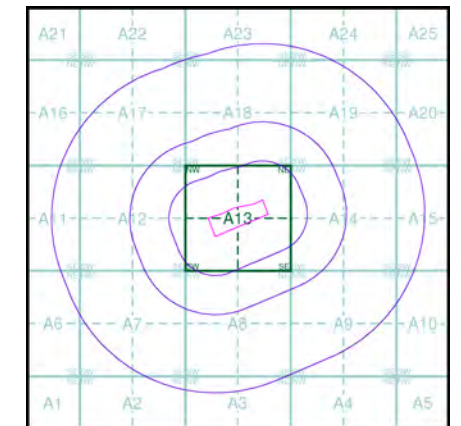
**Ordnance Survey Plan**  
**Published 1974 - 1975**  
**Source map scale - 1:10,000**

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

**Map Name(s) and Date(s)**

SP89SE	1975	1:10,000	
SP88NE	1974	1:10,000	

**Historical Map - Slice A**

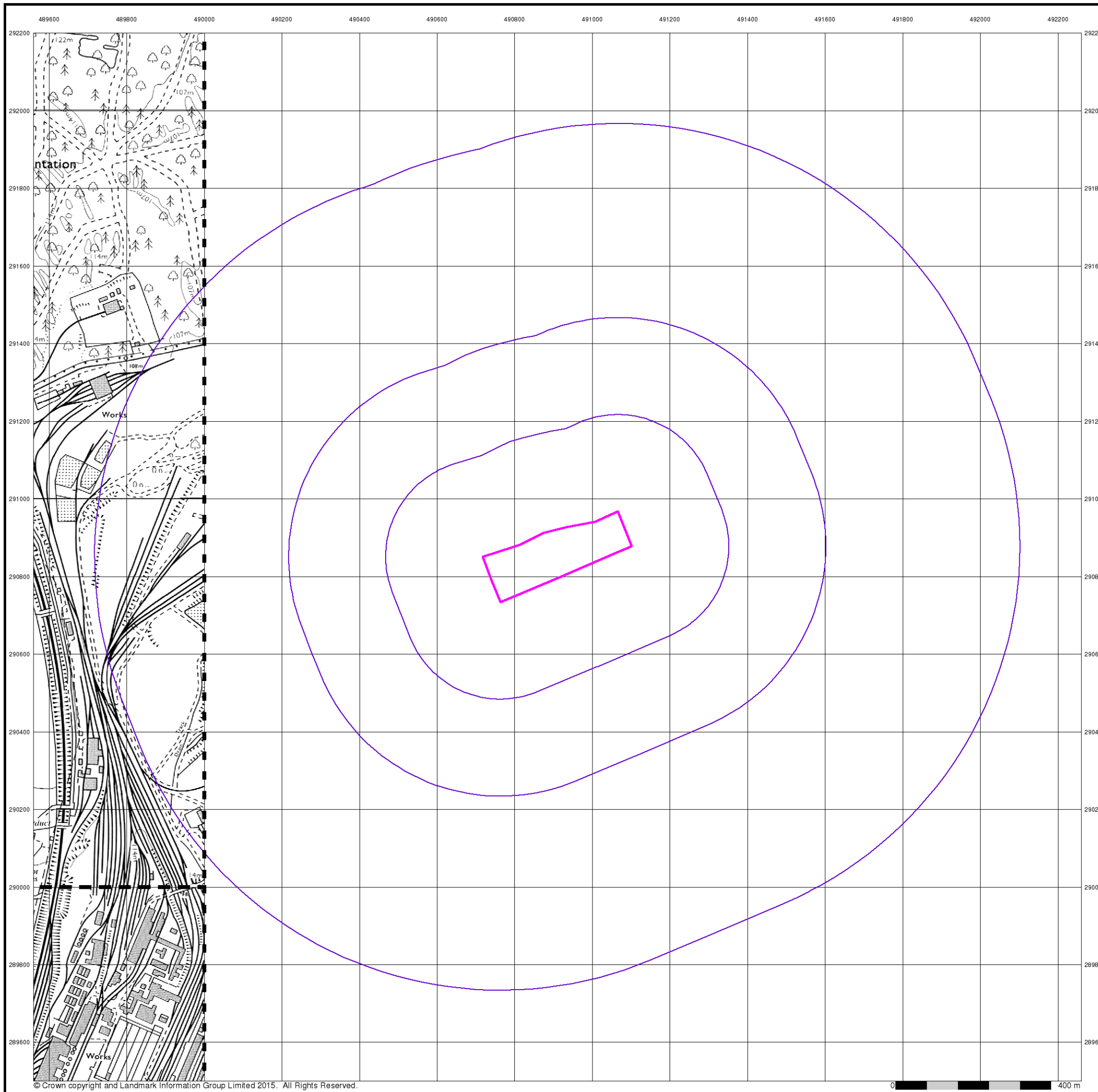


**Order Details**

Order Number: 69227499\_1\_1  
 Customer Ref: 15-0645.01  
 National Grid Reference: 490910, 290860  
 Slice: A  
 Site Area (Ha): 4.12  
 Search Buffer (m): 1000

**Site Details**

Shelton Road, Willowbrook East Industrial Estate, CORBY,  
 Northamptonshire, NN17 5XH



### Ordnance Survey Plan

Published 1982 - 1987

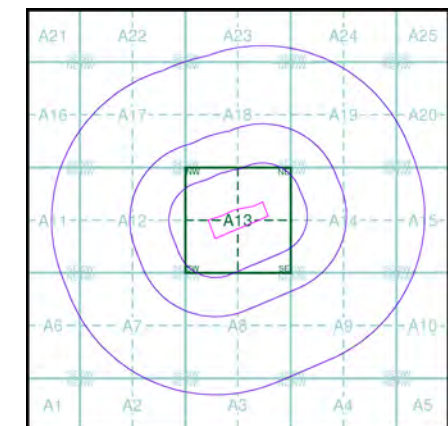
Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

### Map Name(s) and Date(s)

SP89SE	SP99SW
1987	1985
1:10,000	1:10,000
SP88NE	SP98NW
1982	1982
1:10,000	1:10,000

### Historical Map - Slice A

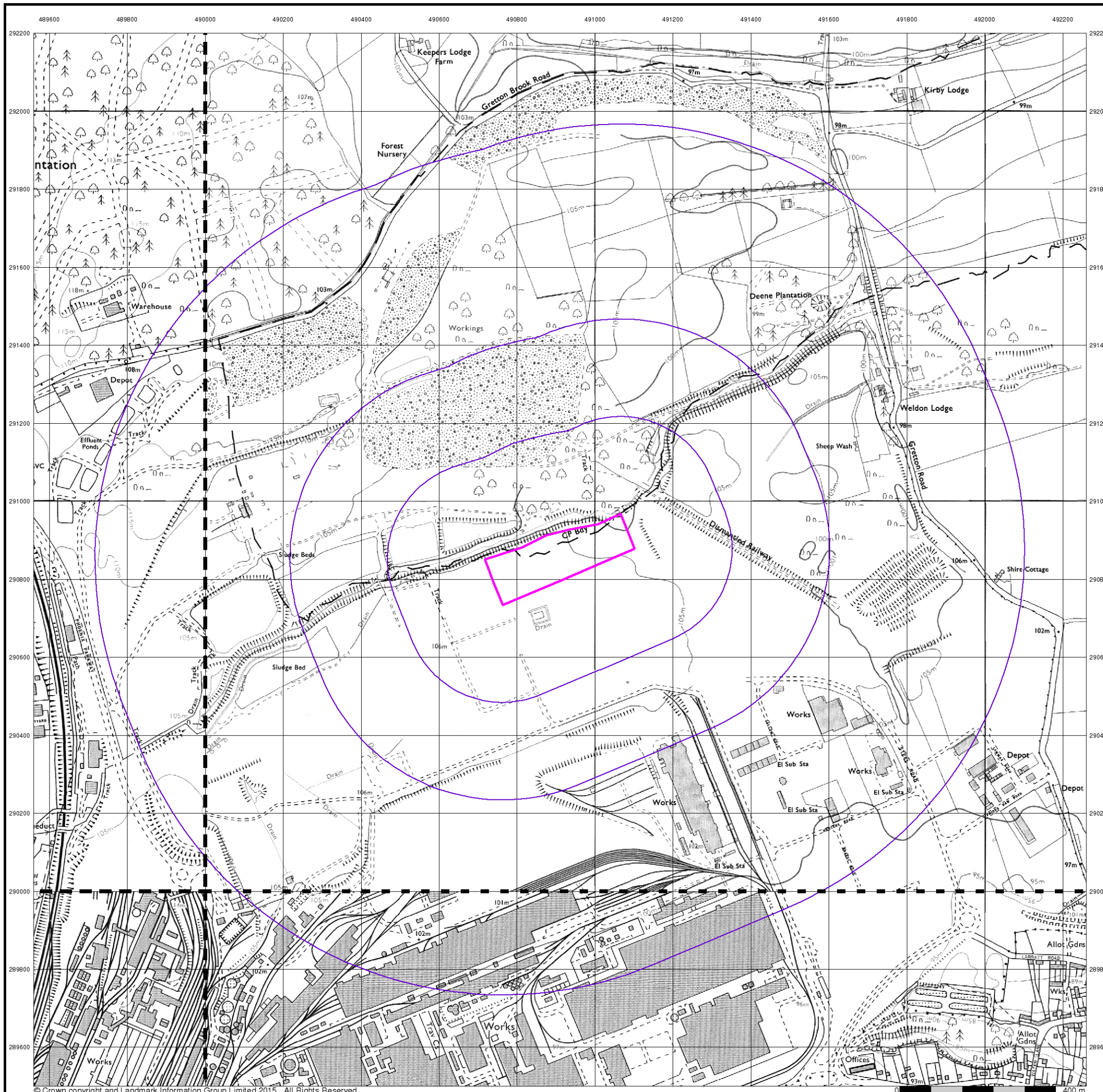


### Order Details

Order Number: 69227499\_1\_1  
 Customer Ref: 15-0645.01  
 National Grid Reference: 490910, 290860  
 Slice: A  
 Site Area (Ha): 4.12  
 Search Buffer (m): 1000

### Site Details

Shelton Road, Willowbrook East Industrial Estate, CORBY,  
 Northamptonshire, NN17 5XH





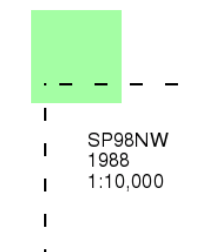
### Ordnance Survey Plan

Published 1988

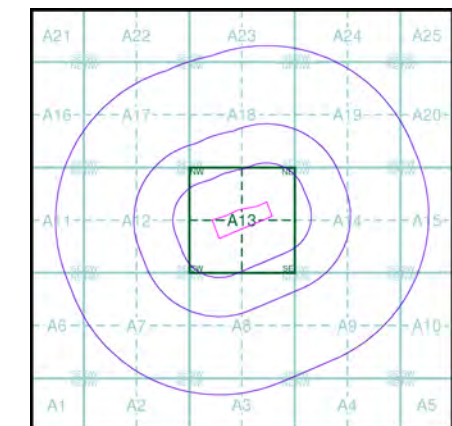
Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

### Map Name(s) and Date(s)



### Historical Map - Slice A



### Order Details

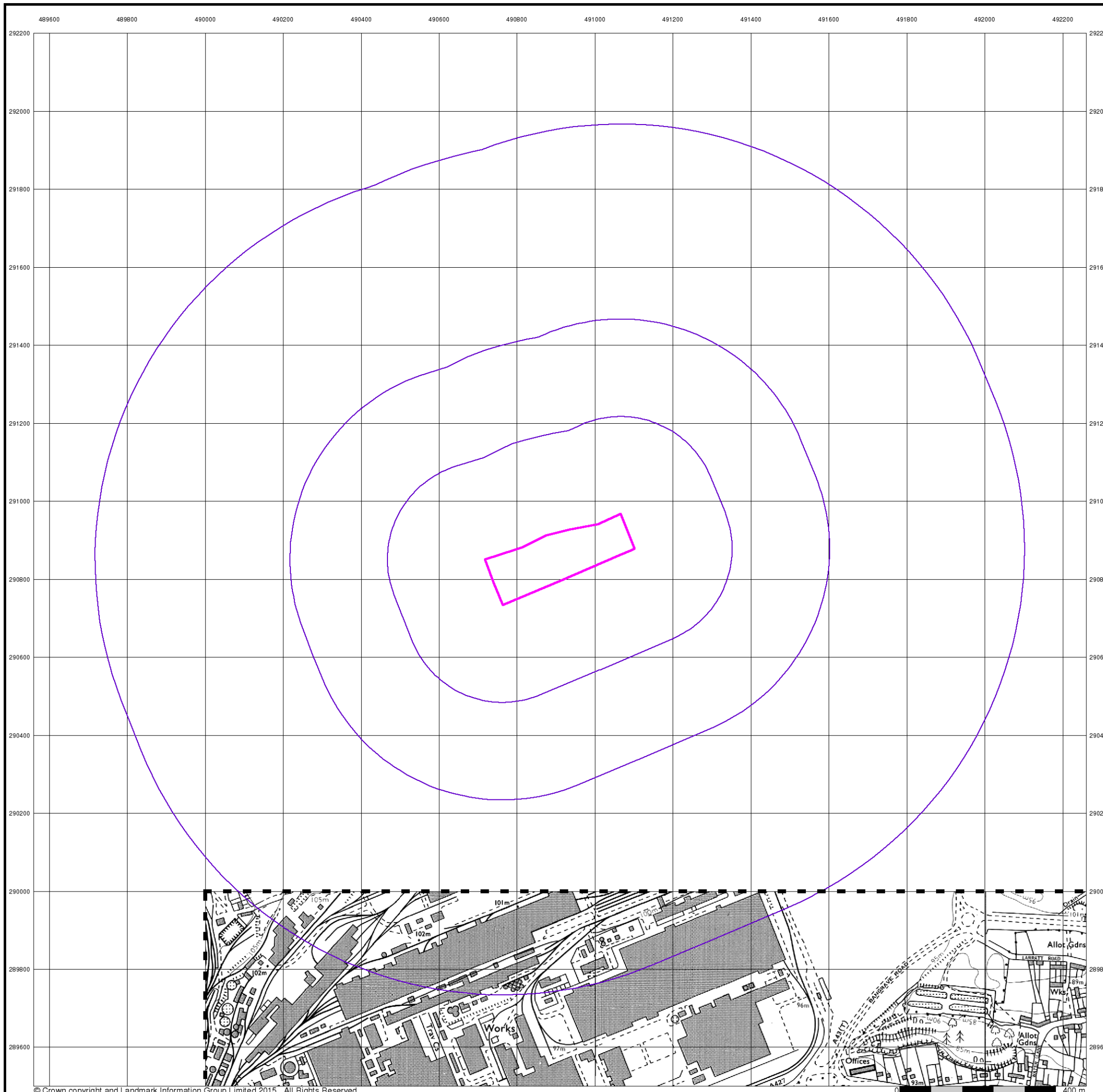
Order Number: 69227499\_1\_1  
Customer Ref: 15-0645.01  
National Grid Reference: 490910, 290860  
Slice: A  
Site Area (Ha): 4.12  
Search Buffer (m): 1000

### Site Details

Shelton Road, Willowbrook East Industrial Estate, CORBY,  
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## Ordnance Survey Plan

Published 1992

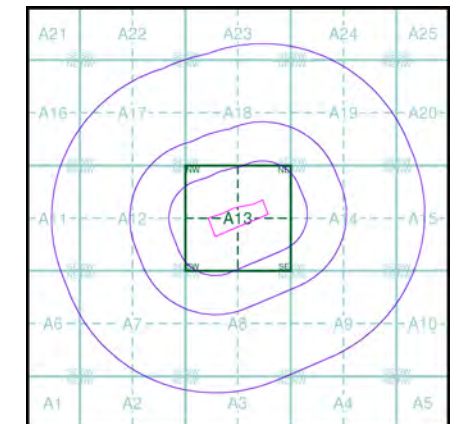
Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

### Map Name(s) and Date(s)

SP99SW	1992	1:10,000
SP88NE	1992	1:10,000

### Historical Map - Slice A

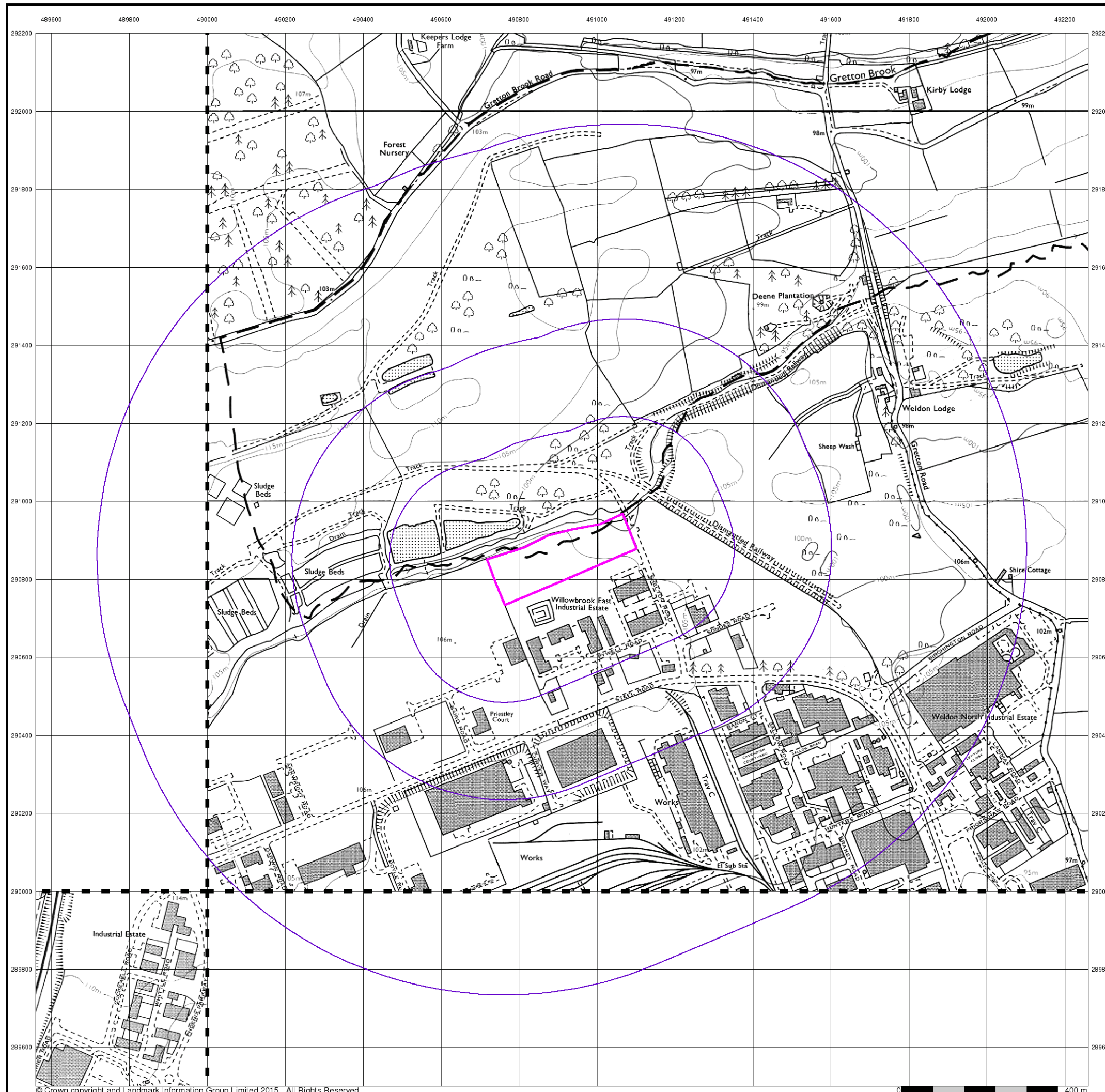


### Order Details

Order Number: 69227499\_1\_1  
 Customer Ref: 15-0645.01  
 National Grid Reference: 490910, 290860  
 Slice: A  
 Site Area (Ha): 4.12  
 Search Buffer (m): 1000

### Site Details

Shelton Road, Willowbrook East Industrial Estate, CORBY,  
 Northamptonshire, NN17 5XH





### 10k Raster Mapping

Published 2006

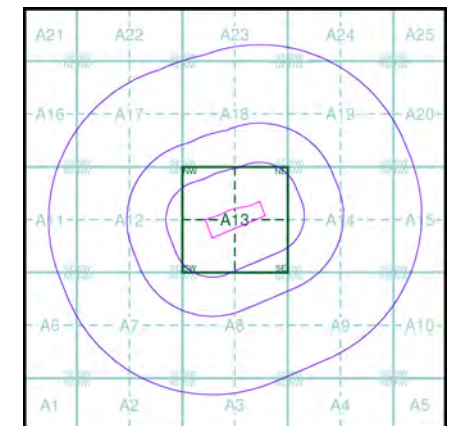
Source map scale - 1:10,000

The historical maps shown were produced from the Ordnance Survey's 1:10,000 colour raster mapping. These maps are derived from Landplan which replaced the old 1:10,000 maps originally published in 1970. The data is highly detailed showing buildings, fences and field boundaries as well as all roads, tracks and paths. Road names are also included together with the relevant road number and classification. Boundary information depiction includes county, unitary authority, district, civil parish and constituency.

### Map Name(s) and Date(s)

SP89SE	SP99SW
2006	2006
1:10,000	1:10,000
SP88NE	SP98NW
2006	2006
1:10,000	1:10,000

### Historical Map - Slice A



### Order Details

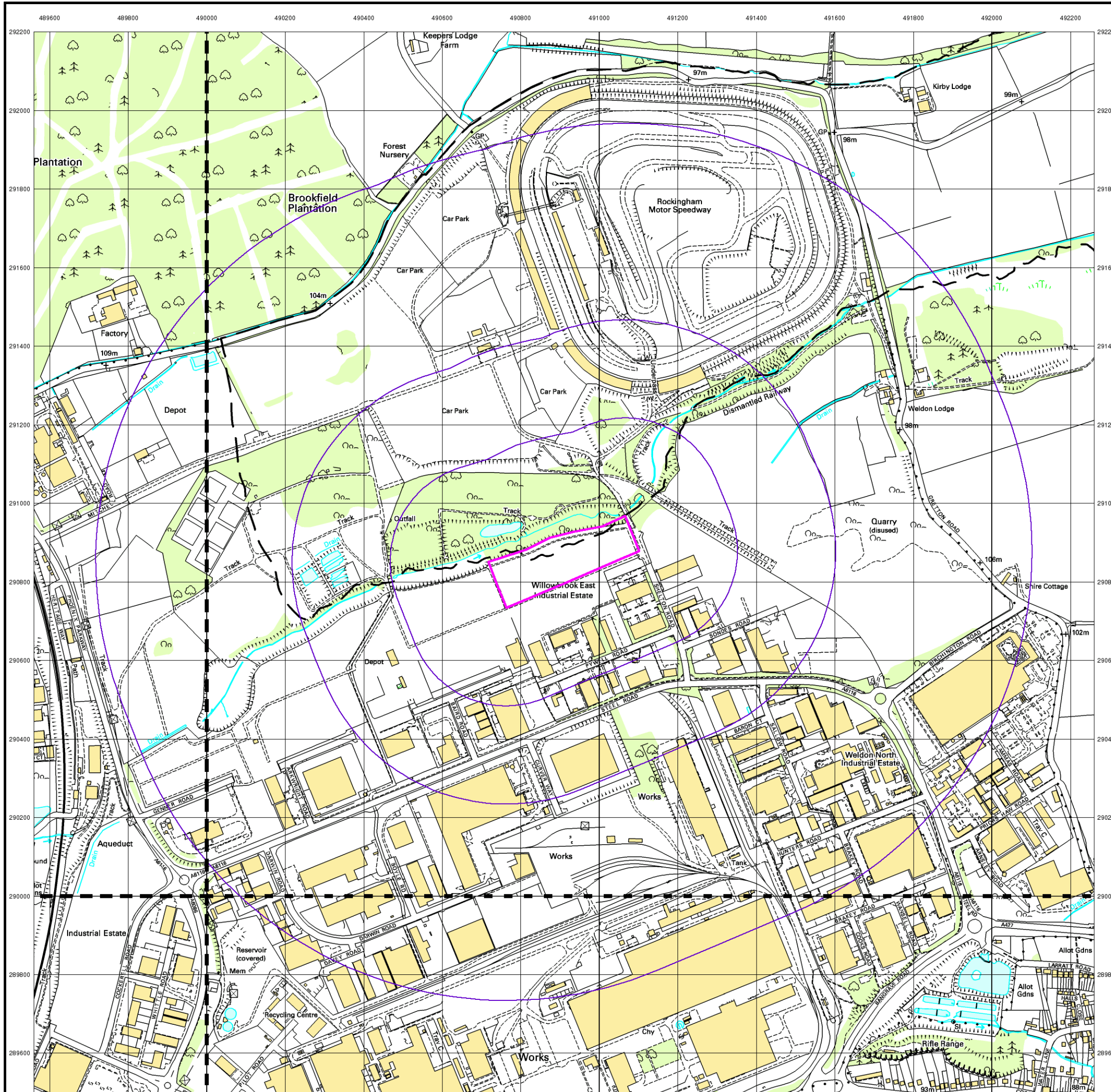
Order Number: 69227499\_1\_1  
Customer Ref: 15-0645.01  
National Grid Reference: 490910, 290860  
Slice: A  
Site Area (Ha): 4.12  
Search Buffer (m): 1000

### Site Details

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## VectorMap Local

Published 2015

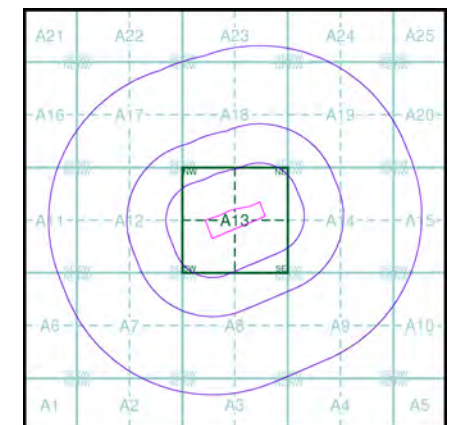
Source map scale - 1:10,000

VectorMap Local (Raster) is Ordnance Survey's highest detailed 'backdrop' mapping product. These maps are produced from OS's VectorMap Local, a simple vector dataset at a nominal scale of 1:10,000, covering the whole of Great Britain, that has been designed for creating graphical mapping. OS VectorMap Local is derived from large-scale information surveyed at 1:1250 scale (covering major towns and cities), 1:2500 scale (smaller towns, villages and developed rural areas), and 1:10 000 scale (mountain, moorland and river estuary areas).

### Map Name(s) and Date(s)

SP89SE 2015 Variable	SP99SW 2015 Variable
SP88NE 2015 Variable	SP98NW 2015 Variable

### Historical Map - Slice A



### Order Details

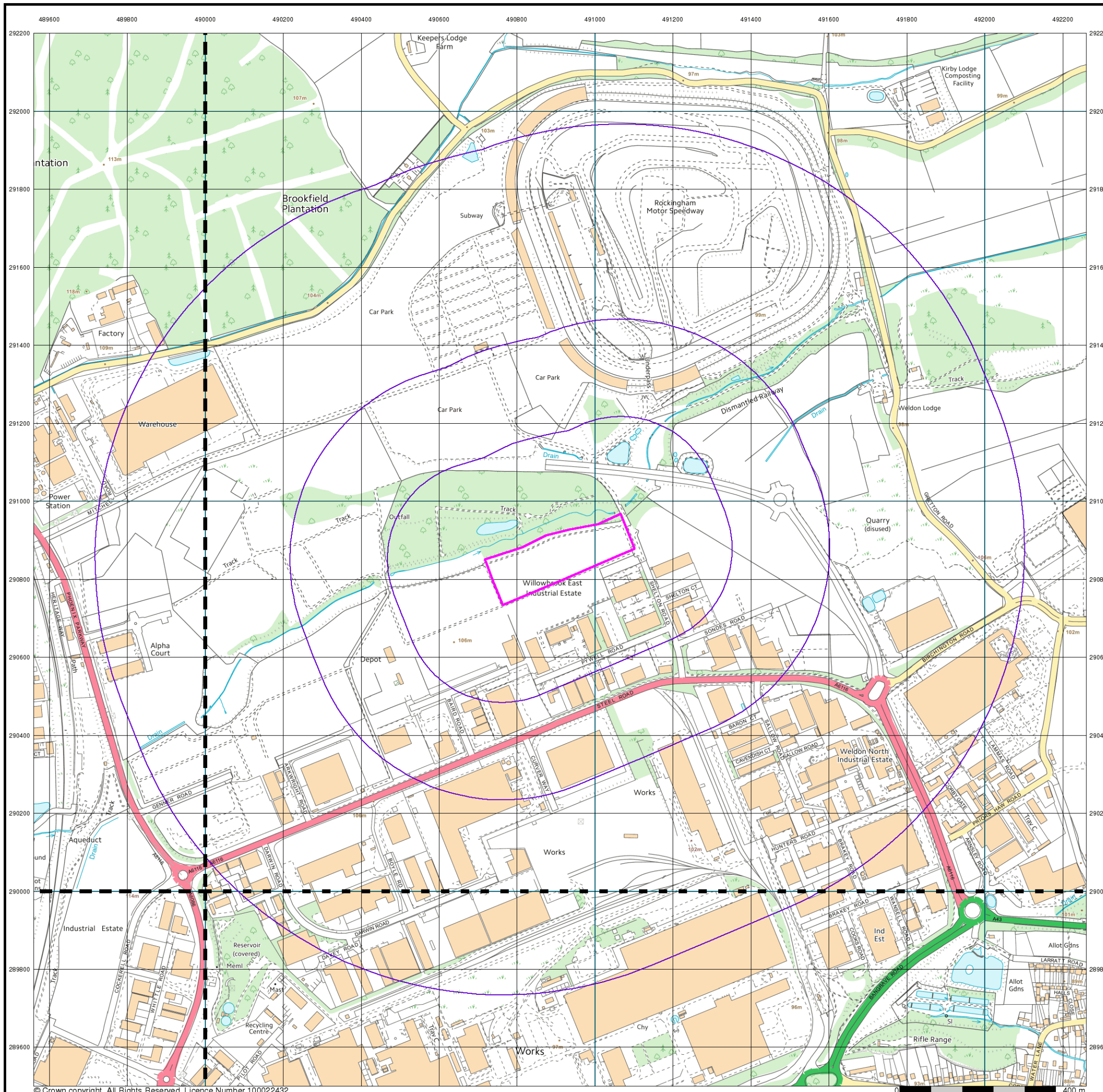
Order Number: 69227499\_1\_1  
 Customer Ref: 15-0645.01  
 National Grid Reference: 490910, 290860  
 Slice: A  
 Site Area (Ha): 4.12  
 Search Buffer (m): 1000

### Site Details

Shelton Road, Willowbrook East Industrial Estate, CORBY, Northamptonshire, NN17 5XH



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# Historical Mapping Legends

## Ordnance Survey County Series and Ordnance Survey Plan 1:2,500

Quarry      Gravel Pit      Sand Pit  
 Clay Pit      Shingle      Refuse Heap  
 Sloping Masonry      Flat Rock  
 Marsh      Reeds      Osiers  
 Rough Pasture      Furze      Wood  
 Mixed Wood      Brushwood      Orchard  
 Fir      Ford      Stepping Stones  
 Ferry      Waterfall      Lock  
 Trig. Station      507      Altitude at Trig. Station  
 B.M. 325.9      Bench Mark      342      Surface Level  
 Arrow denotes flow of water      Antiquities (site of)  
 Cutting      Embankment  
 Railway crossing Road      Level Crossing      Road crossing Railway  
 Railway crossing River or Canal      Road over single stream      Road over River or Canal  
 County Boundary (Geographical)  
 County & Civil Parish Boundary  
 Administrative County & Civil Parish Boundary  
 County Borough Boundary (England)  
 Co. Boro. Bdy.  
 County Burgh Boundary (Scotland)  
 B.P. B.S. Boundary Post or Stone      P.C.B. Police Call Box  
 B.R. Bridle Road      P. Pump  
 E.P. Electricity Pylon      S.P. Signal Post  
 F.B. Foot Bridge      S.L. Sluice  
 F.P. Foot Path      Sp. Spring  
 G.P. Guide Post or Board      T.C.B. Telephone Call Box  
 M.S. Mile Stone      Tr. Trough  
 M.P. M.R. Mooring Post or Ring      W. Well

## Ordnance Survey Plan, Additional SIMs and Supply of Unpublished Survey Information 1:2,500 and 1:1,250

Inactive Quarry, Chalk Pit or Clay Pit      Active Quarry, Chalk Pit or Clay Pit  
 Rock      Boulders  
 Roofed Building      Glazed Roof Building  
 Sloping Masonry      Archway  
 Non-Coniferous Tree (surveyed)      Coniferous Tree (surveyed)  
 Non-Coniferous Trees (not surveyed)      Coniferous Trees (not surveyed)  
 Orchard Tree      Scrub      Bracken  
 Coppice, Osier      Reeds      Marsh, Saltings  
 Rough Grassland      Heath      Culvert  
 Direction of water flow      Bench Mark      Antiquity (site of)  
 Cave Entrance      Triangulation Station      Electricity Pylon  
 Electricity Transmission Line  
 County Boundary (Geographical)  
 County & Civil Parish Boundary  
 Civil Parish Boundary  
 Admin. County or County Bor. Boundary  
 London Borough Boundary  
 Symbol marking point where boundary mereing changes  
 BH Beer House      P Pillar, Pole or Post  
 BP, BS Boundary Post or Stone      PO Post Office  
 Cn, C Capstan, Crane      PC Public Convenience  
 Chy Chimney      PH Public House  
 D Fn Drinking Fountain      Pp Pump  
 EI P Electricity Pillar or Post      SB, S Br Signal Box or Bridge  
 FAP Fire Alarm Pillar      SP, SL Signal Post or Light  
 FB Foot Bridge      Spr Spring  
 GP Guide Post      Tk Tank or Track  
 H Hydrant or Hydraulic      TCB Telephone Call Box  
 LC Level Crossing      TCP Telephone Call Post  
 MH Manhole      Tr Trough  
 MP Mile Post or Mooring Post      Wr Pt, Wr T Water Point, Water Tap  
 MS Mile Stone      W Well  
 NTL Normal Tidal Limit      Wd Pp Wind Pump

## Large-Scale National Grid Data 1:2,500 and 1:1,250

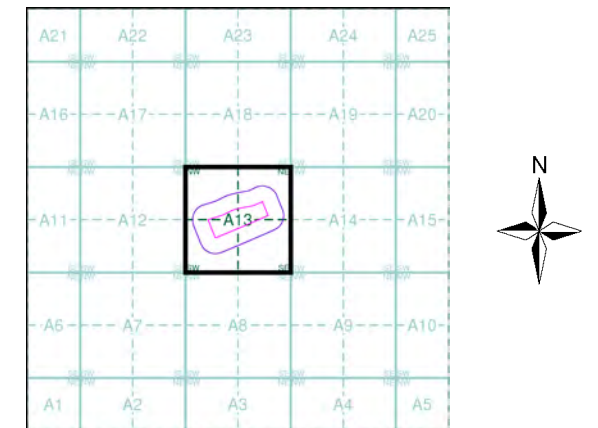
Cliff      Slopes      Top  
 Rock      Rock (scattered)  
 Boulders      Boulders (scattered)  
 Positioned Boulder      Scree  
 Non-Coniferous Tree (surveyed)      Coniferous Tree (surveyed)  
 Non-Coniferous Trees (not surveyed)      Coniferous Trees (not surveyed)  
 Orchard Tree      Scrub      Bracken  
 Coppice, Osier      Reeds      Marsh, Saltings  
 Rough Grassland      Heath      Culvert  
 Direction of water flow      Triangulation Station      Antiquity (site of)  
 Electricity Transmission Line      Electricity Pylon  
 BM 231.60m Bench Mark      Buildings with Building Seed  
 Roofed Building      Glazed Roof Building  
 Civil parish/community boundary  
 District boundary  
 County boundary  
 Boundary post/stone  
 Boundary mereing symbol (note: these always appear in opposed pairs or groups of three)  
 Bks Barracks      P Pillar, Pole or Post  
 Bty Battery      PO Post Office  
 Cem Cemetery      PC Public Convenience  
 Chy Chimney      Pp Pump  
 Cis Cistern      Ppg Sta Pumping Station  
 Dismtd Rly Dismantled Railway      PW Place of Worship  
 EI Gen Sta Electricity Generating Station      Sewage Ppg Sta Sewage Pumping Station  
 EI P Electricity Pole, Pillar      SB, S Br Signal Box or Bridge  
 EI Sub Sta Electricity Sub Station      SP, SL Signal Post or Light  
 FB Filter Bed      Spr Spring  
 Fn / D Fn Fountain / Drinking Ftn.      Tk Tank or Track  
 Gas Gov Gas Valve Compound      Tr Trough  
 GVC Gas Governor      Wd Pp Wind Pump  
 GP Guide Post      Wr Pt, Wr T Water Point, Water Tap  
 MH Manhole      Wks Works (building or area)  
 MP, MS Mile Post or Mile Stone      W Well



## Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Northamptonshire	1:2,500	1886	2
Northamptonshire	1:2,500	1900	3
Northamptonshire	1:2,500	1938	4
Ordnance Survey Plan	1:2,500	1964	5
Ordnance Survey Plan	1:2,500	1973	6
Additional SIMs	1:2,500	1978 - 1988	7
Additional SIMs	1:2,500	1986 - 1988	8
Ordnance Survey Plan	1:2,500	1987	9
Additional SIMs	1:2,500	1987 - 1991	10
Additional SIMs	1:2,500	1991	11
Large-Scale National Grid Data	1:2,500	1993	12
Large-Scale National Grid Data	1:2,500	1994	13
Large-Scale National Grid Data	1:2,500	1996	14

## Historical Map - Segment A13



## Order Details

Order Number: 69227499\_1\_1  
 Customer Ref: 15-0645.01  
 National Grid Reference: 490910, 290860  
 Slice: A  
 Site Area (Ha): 4.12  
 Search Buffer (m): 100

## Site Details

Shelton Road, Willowbrook East Industrial Estate, CORBY,  
 Northamptonshire, NN17 5XH



Tel: 0844 844 9952  
 Fax: 0844 844 9951  
 Web: www.envirocheck.co.uk

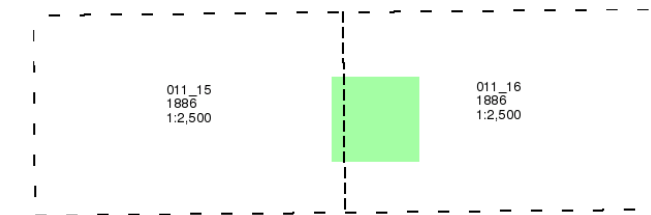
## Northamptonshire

Published 1886

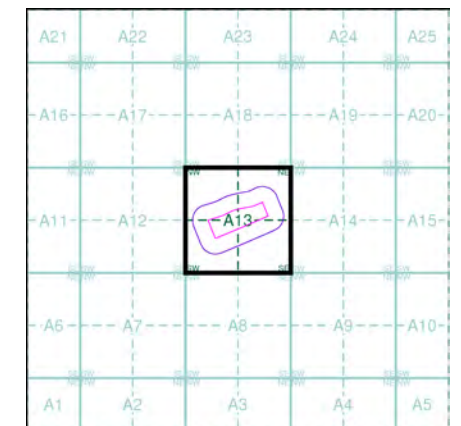
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

### Map Name(s) and Date(s)



### Historical Map - Segment A13

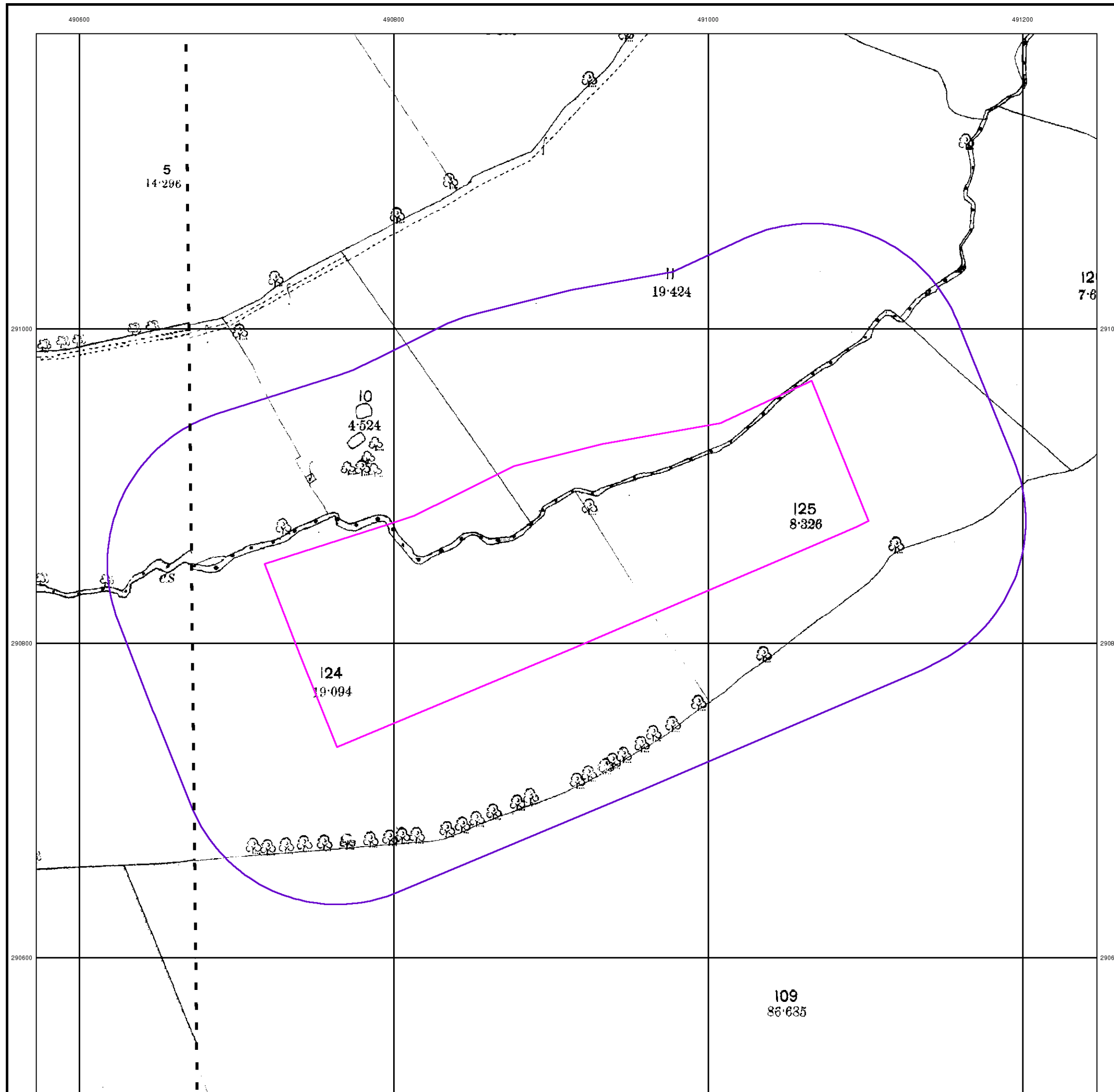


### Order Details

Order Number: 69227499\_1\_1  
 Customer Ref: 15-0645.01  
 National Grid Reference: 490910, 290860  
 Slice: A  
 Site Area (Ha): 4.12  
 Search Buffer (m): 100

### Site Details

Shelton Road, Willowbrook East Industrial Estate, CORBY,  
 Northamptonshire, NN17 5XH



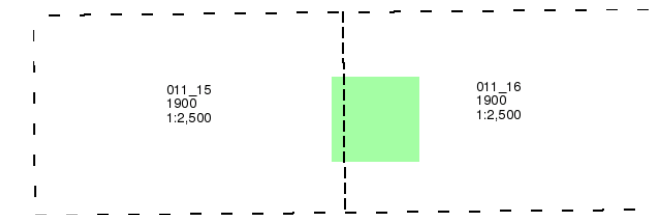
## Northamptonshire

Published 1900

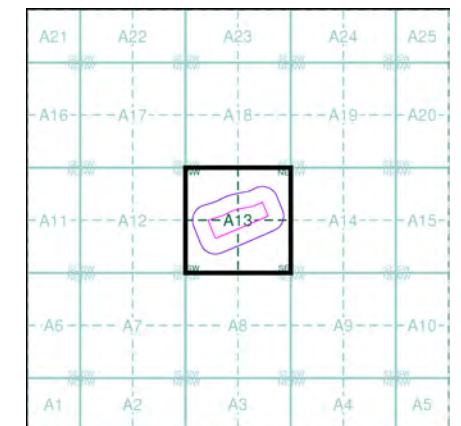
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

### Map Name(s) and Date(s)



### Historical Map - Segment A13

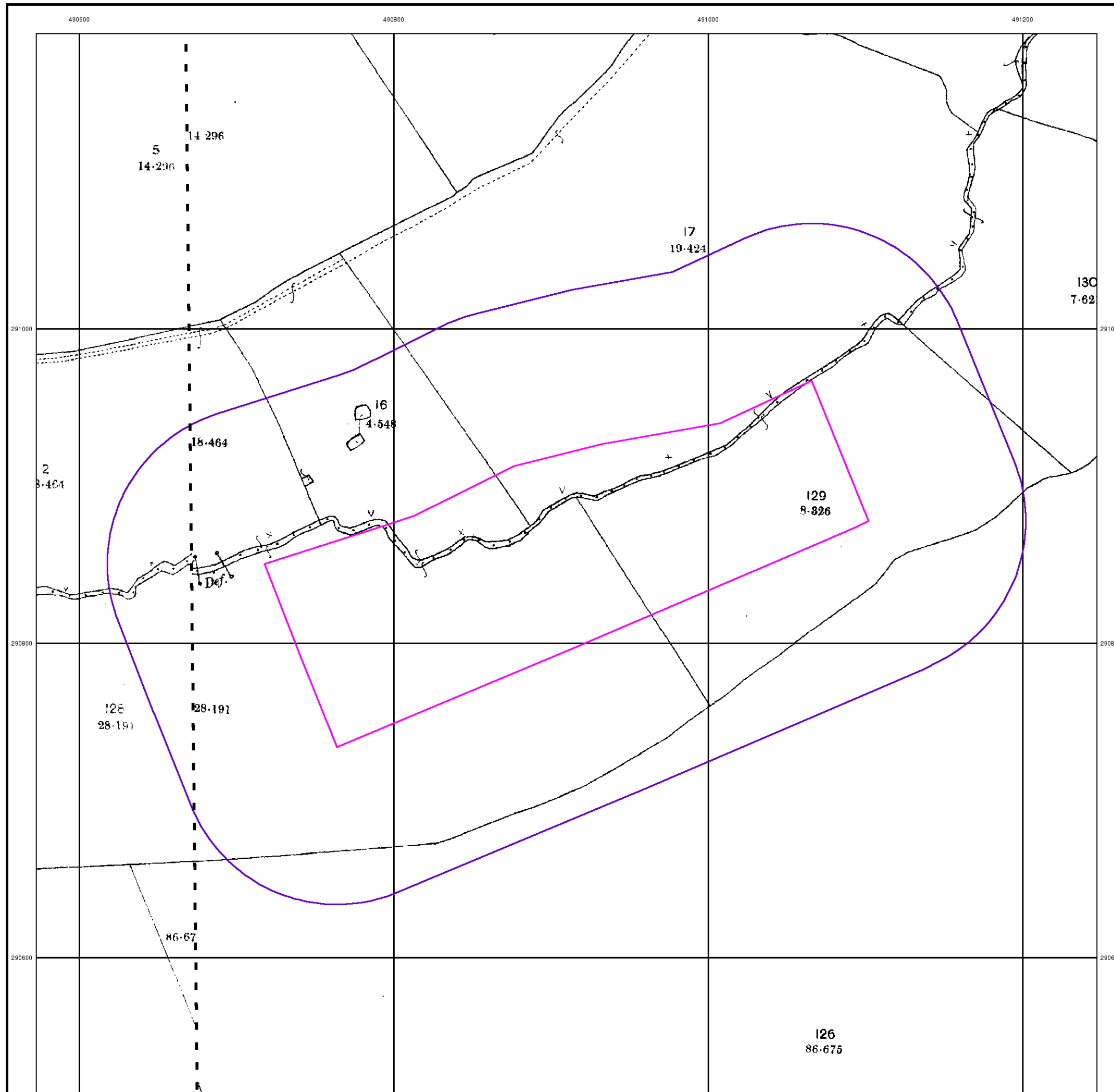


### Order Details

Order Number: 69227499\_1\_1  
 Customer Ref: 15-0645.01  
 National Grid Reference: 490910, 290860  
 Slice: A  
 Site Area (Ha): 4.12  
 Search Buffer (m): 100

### Site Details

Shelton Road, Willowbrook East Industrial Estate, CORBY,  
 Northamptonshire, NN17 5XH



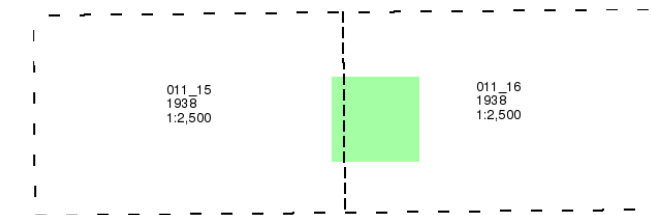
## Northamptonshire

Published 1938

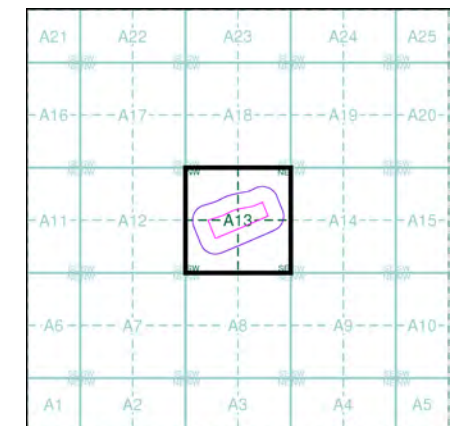
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

### Map Name(s) and Date(s)



### Historical Map - Segment A13

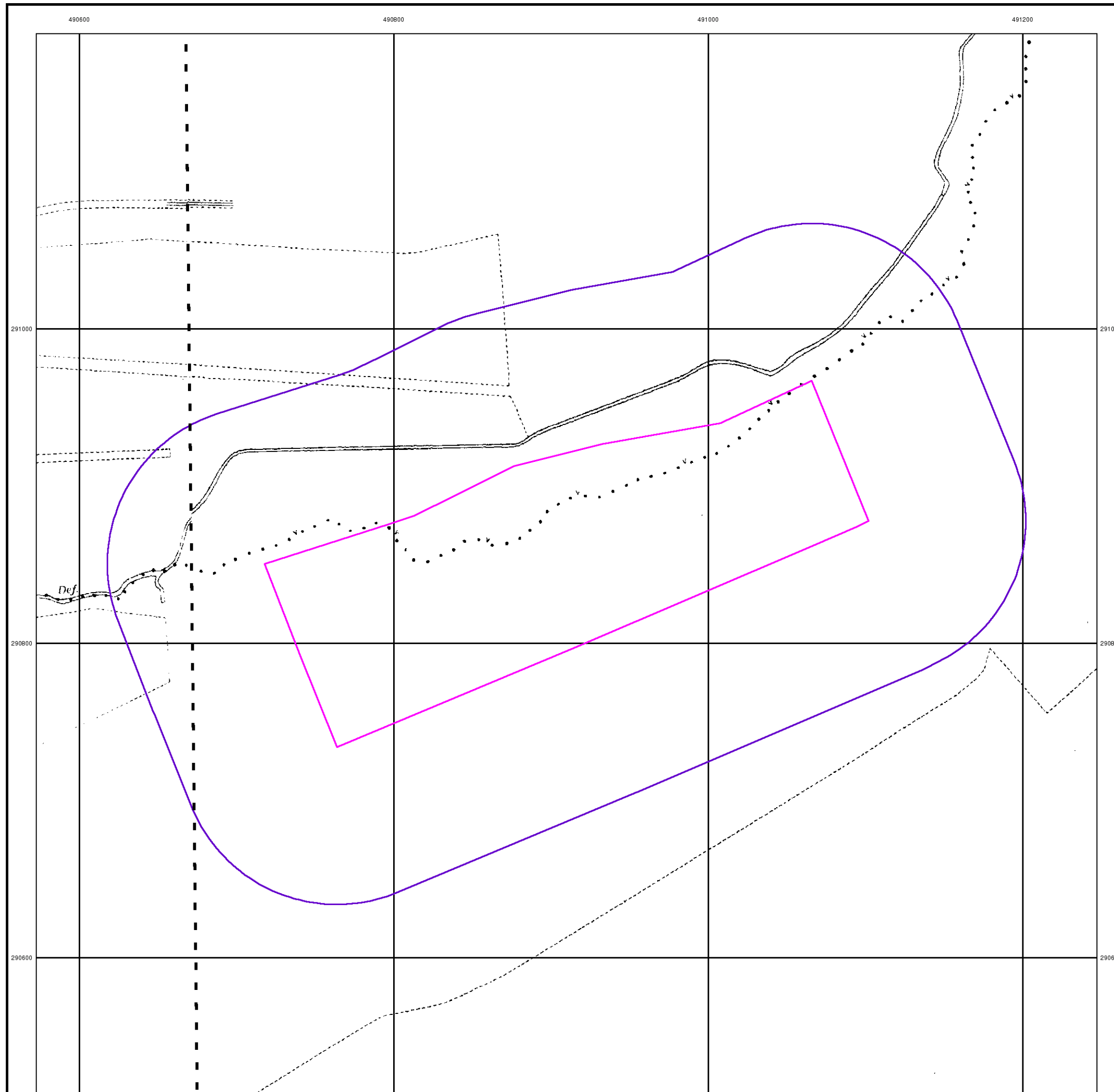


### Order Details

Order Number: 69227499\_1\_1  
 Customer Ref: 15-0645.01  
 National Grid Reference: 490910, 290860  
 Slice: A  
 Site Area (Ha): 4.12  
 Search Buffer (m): 100

### Site Details

Shelton Road, Willowbrook East Industrial Estate, CORBY,  
 Northamptonshire, NN17 5XH



## Ordnance Survey Plan

Published 1964

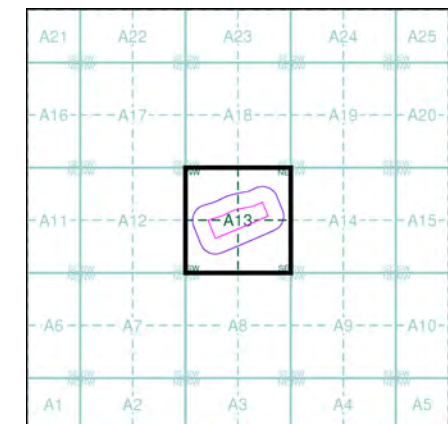
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

### Map Name(s) and Date(s)

SP9091	SP9191
1964	1964
12,500	12,500
---	
SP9090	SP9190
1964	1964
12,500	12,500

### Historical Map - Segment A13

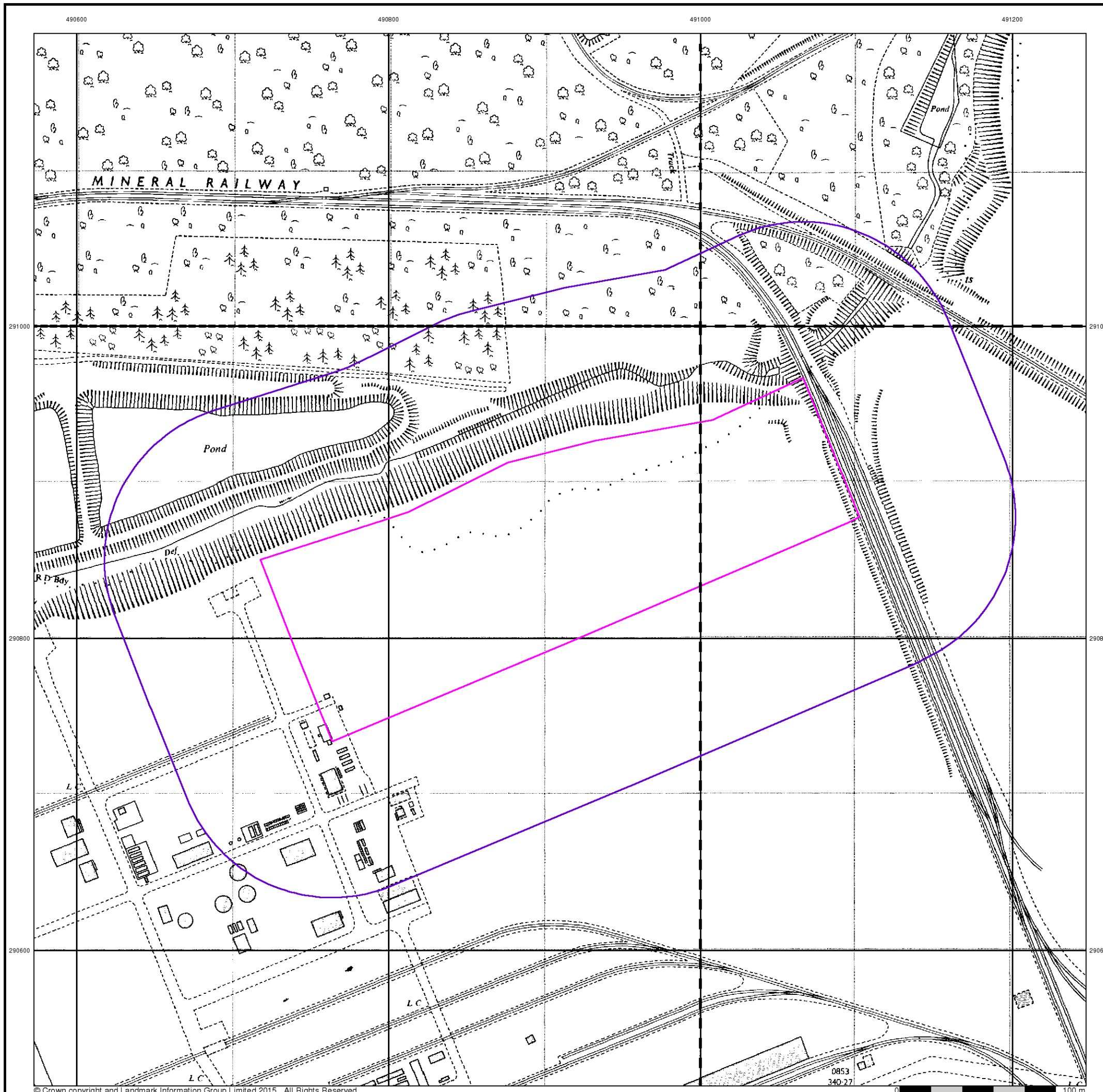


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Order Number: 69227499\_1\_1  
 Customer Ref: 15-0645.01  
 National Grid Reference: 490910, 290860  
 Slice: A  
 Site Area (Ha): 4.12  
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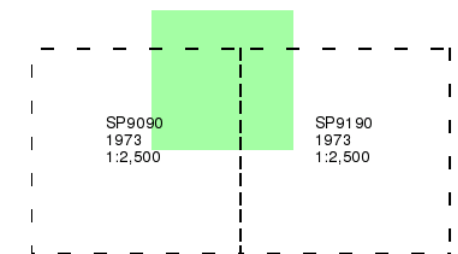
### Ordnance Survey Plan

Published 1973

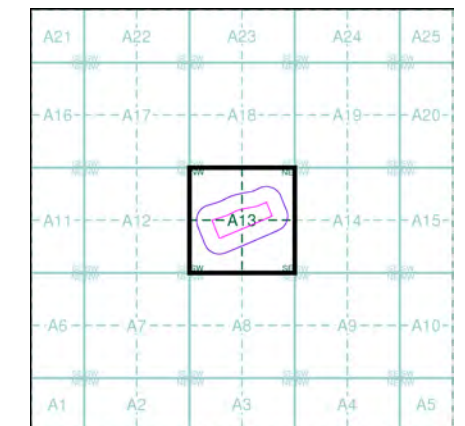
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

### Map Name(s) and Date(s)



### Historical Map - Segment A13

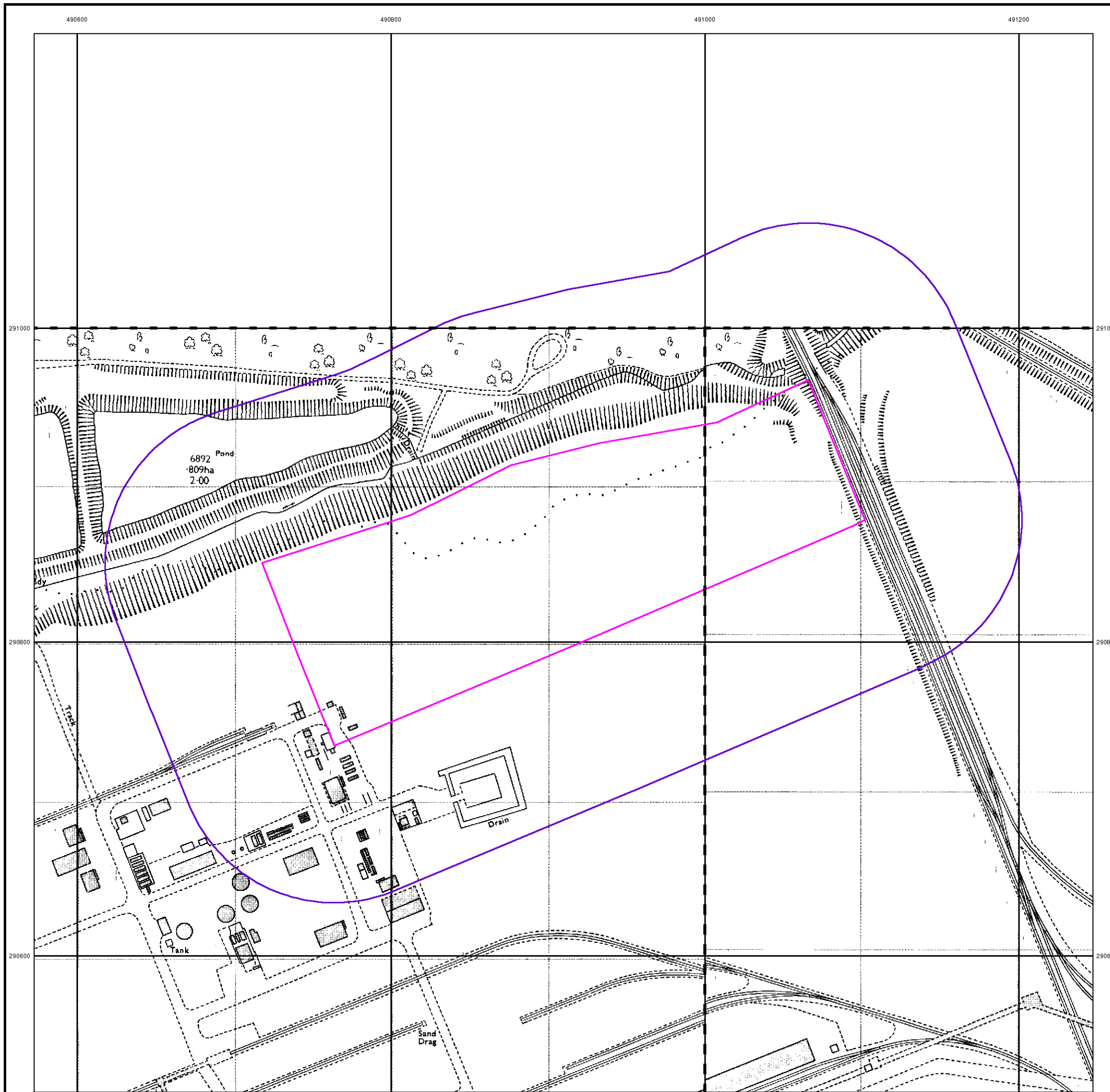


### Order Details

Order Number: 69227499\_1\_1  
 Customer Ref: 15-0645.01  
 National Grid Reference: 490910, 290860  
 Slice: A  
 Site Area (Ha): 4.12  
 Search Buffer (m): 100

### Site Details

Shelton Road, Willowbrook East Industrial Estate, CORBY,  
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### Additional SIMs

Published 1978 - 1988

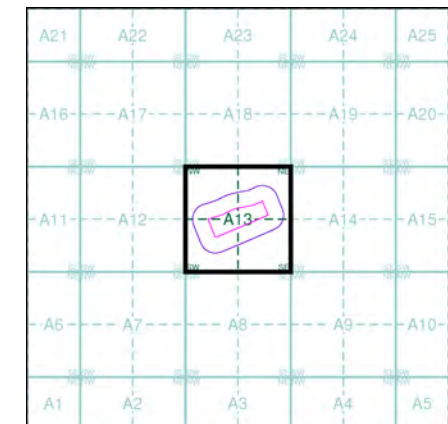
Source map scale - 1:2,500

The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

### Map Name(s) and Date(s)

SP9091 1978 1:2,500	SP9191 1988 1:2,500
SP9090 1988 1:2,500	SP9190 1983 1:2,500

### Historical Map - Segment A13

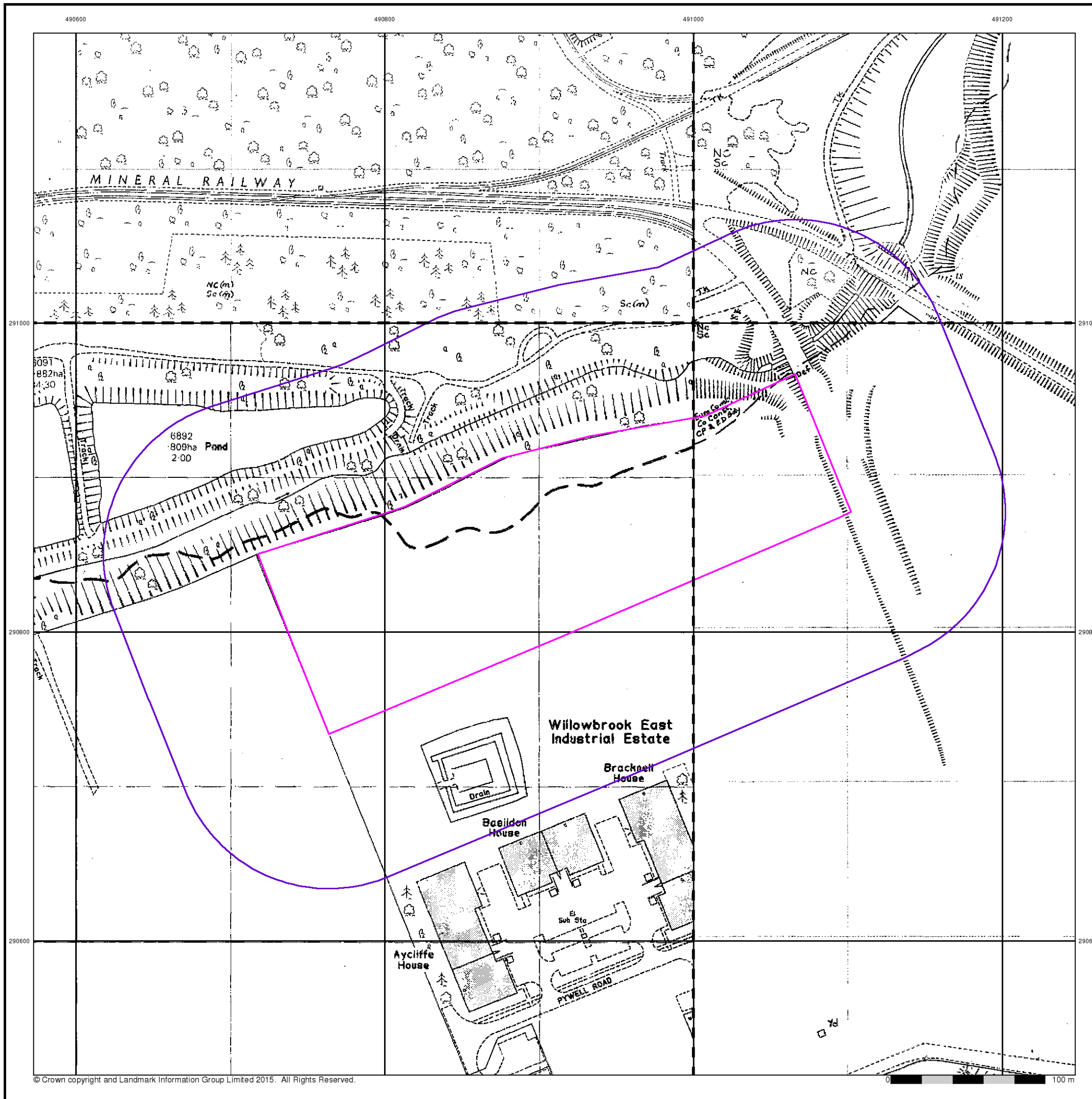


### Order Details

Order Number: 69227499\_1\_1  
 Customer Ref: 15-0645.01  
 National Grid Reference: 490910, 290860  
 Slice: A  
 Site Area (Ha): 4.12  
 Search Buffer (m): 100

### Site Details

Shelton Road, Willowbrook East Industrial Estate, CORBY,  
 Northamptonshire, NN17 5XH



**Additional SIMs**

**Published 1986 - 1988**

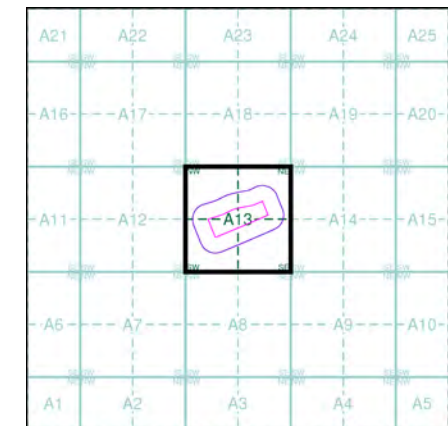
**Source map scale - 1:2,500**

The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

**Map Name(s) and Date(s)**

SP9091	1986	12,500
SP9090	1988	12,500
SP9190	1987	12,500

**Historical Map - Segment A13**

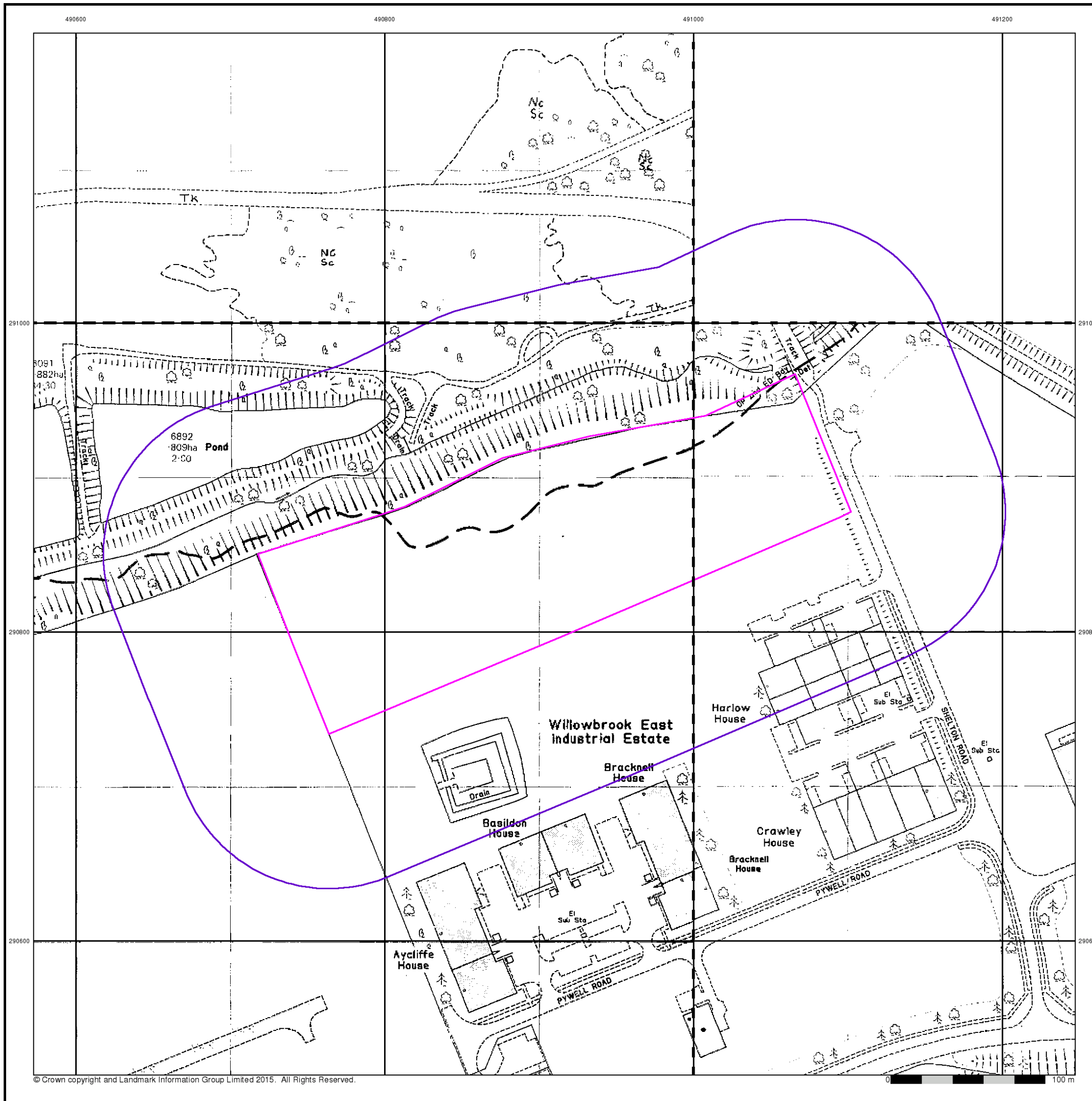


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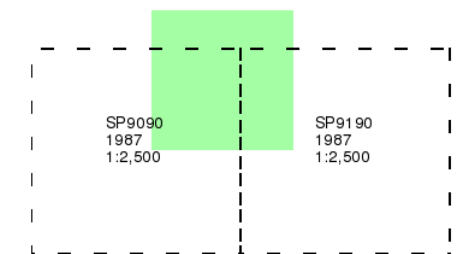
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Published 1987

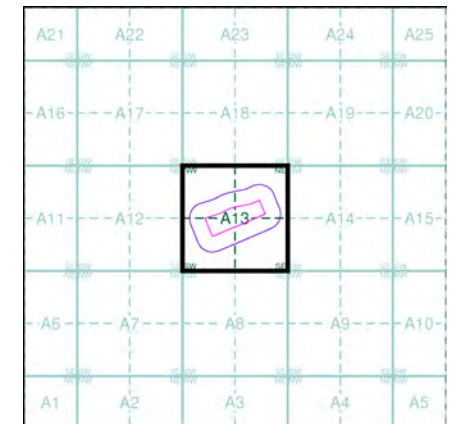
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

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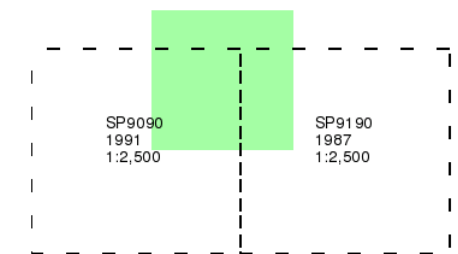
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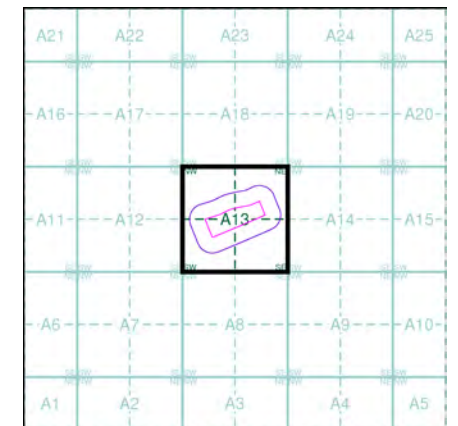
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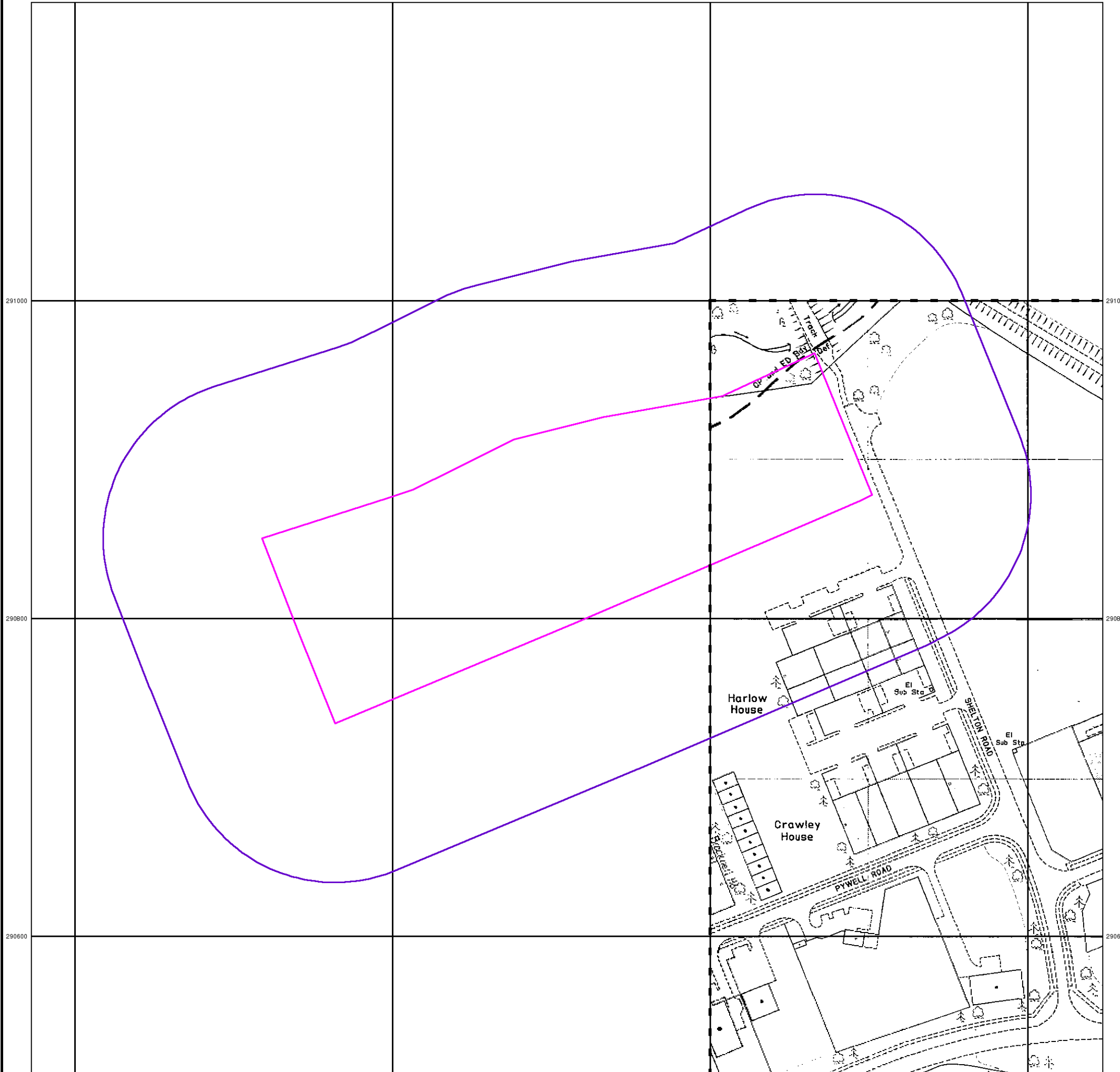


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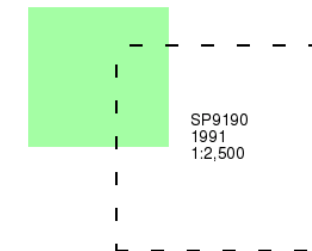
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Published 1991

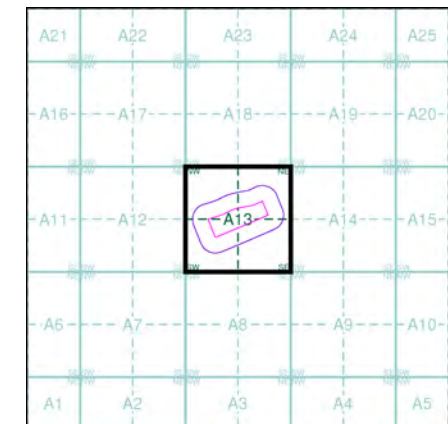
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## Large-Scale National Grid Data

Published 1993

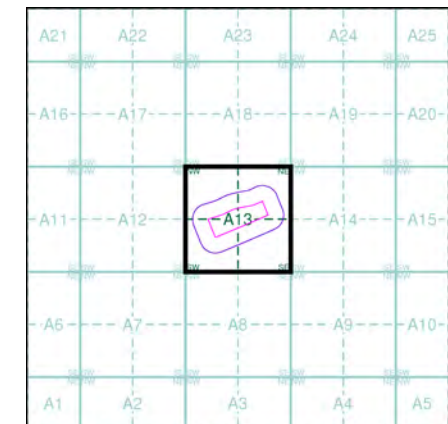
Source map scale - 1:2,500

'Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') in 1992, and continued to be produced until 1999. These maps were the fore-runners of digital mapping and so provide detailed information on houses and roads, but tend to show less topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

### Map Name(s) and Date(s)

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12,500	12,500
SP9090	SP9190
1993	1993
12,500	12,500

### Historical Map - Segment A13



### Order Details

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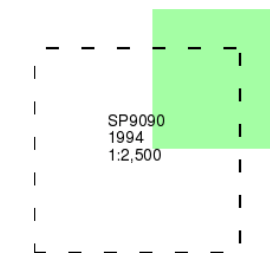
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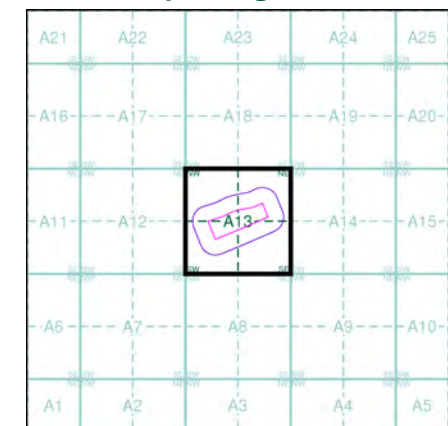
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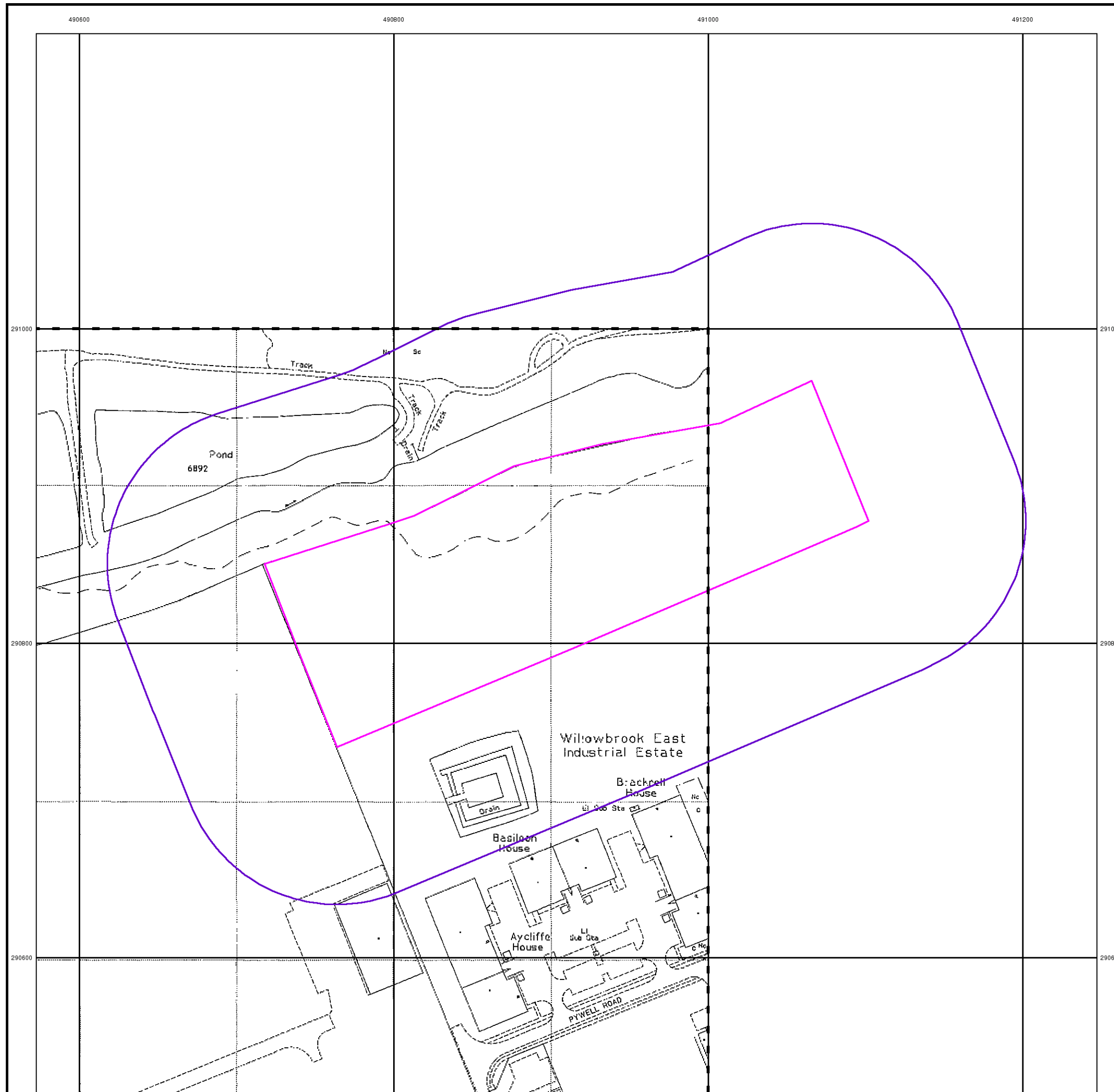


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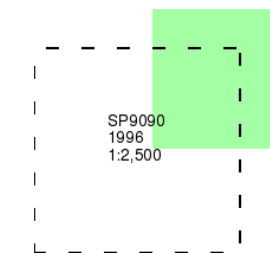
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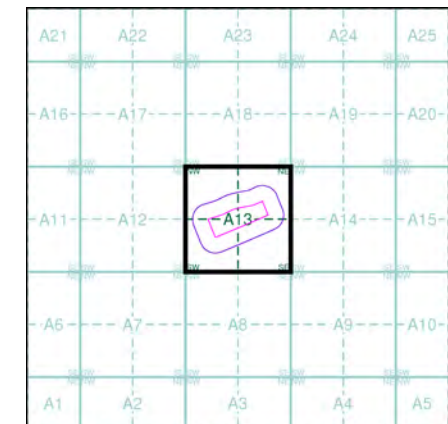
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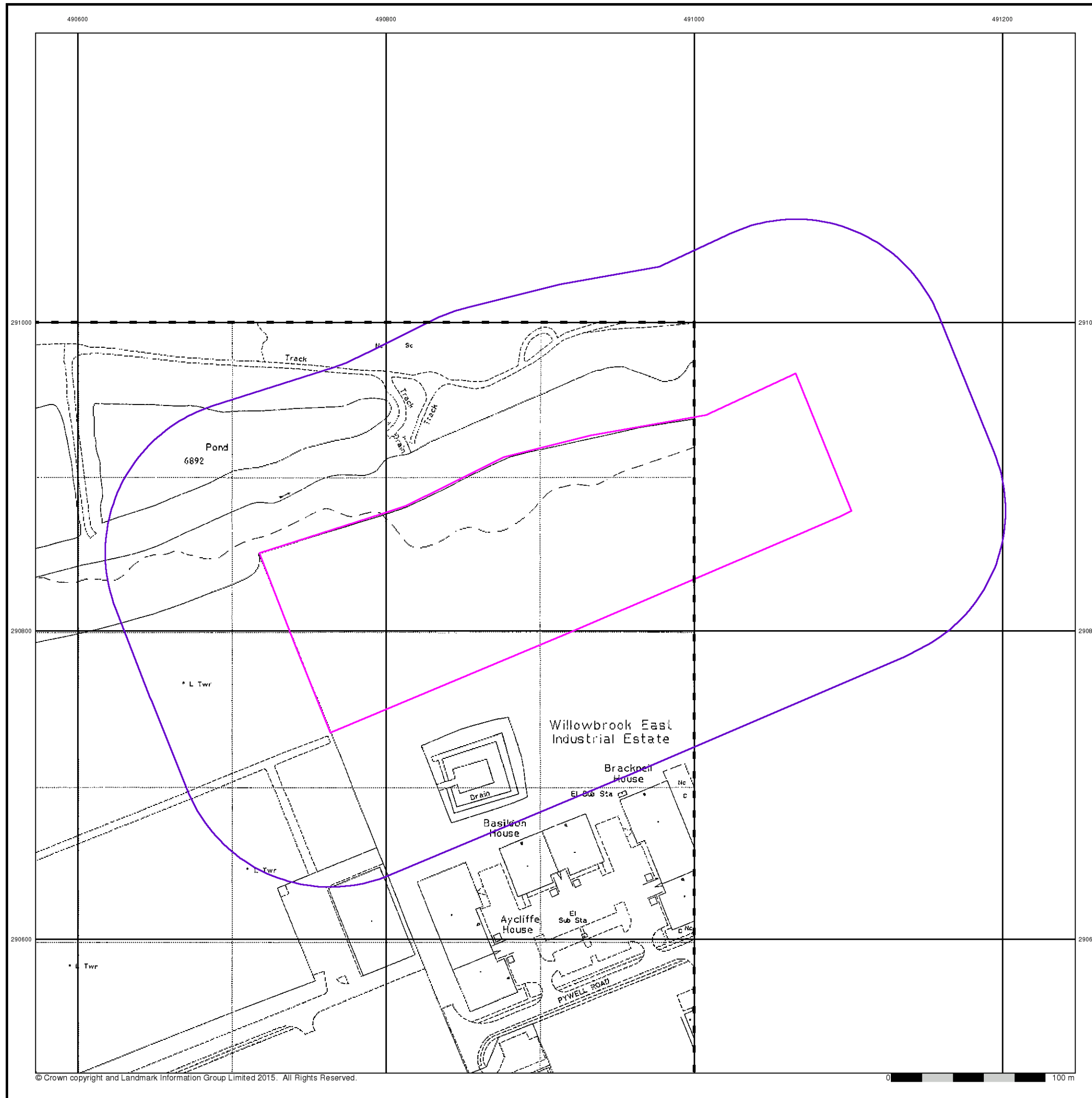


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 Northamptonshire, NN17 5XH











**RISK DEFINITIONS**

**Consequence to Receptor Definition Matrix**

	<b>Human Health</b>	<b>Controlled Waters</b>	<b>Buildings/Services</b>
<b>Severe Consequence</b>	Acute or chronic permanent impact on human health.	Sensitive controlled water pollution ongoing, or just about to occur.	Catastrophic collapse
<b>Moderate Consequence</b>	Chronic permanent impact on human health	Gradual pollution of sensitive controlled water	Degradation of materials
<b>Mild Consequence</b>	Chronic temporary impact on human health	Gradual pollution of non-sensitive controlled water	Noticeable change, non-structural

**Standard Risk Matrix**

	<b>Severe Consequence</b>	<b>Moderate Consequence</b>	<b>Mild Consequence</b>
<b>Higher Probability</b>	Very High Risk	High Risk	Medium Risk
<b>Median Probability</b>	High Risk	Medium Risk	Low Risk
<b>Lower Probability</b>	Medium Risk	Low Risk	Very Low Risk

**Probability Definitions**

<b>Probability</b>	<b>Definition in Context</b>
<b>Higher</b>	Positive evidence of hazard, pathway and receptor
<b>Median</b>	Suspect hazard, pathway, and receptor
<b>Lower</b>	No evidence of hazard, pathway, and receptor

**Risk Rank Definitions**

<b>Rank</b>	<b>Definition in Context</b>
<b>Very High Risk</b>	Demonstrable contaminated land situation, highest threat & liability level, urgent action recommended.
<b>High Risk</b>	Likely contaminated land situation, risk assessment and action recommended.
<b>Medium Risk</b>	Plausible contaminated land situation, risk assessment and possible action recommended.
<b>Low Risk</b>	Unlikely contaminated land situation, possible risk assessment and possible action.
<b>Very Low Risk</b>	Negligible risk, no action recommended except vigilance for changes in conditions.



**Environmental and Geotechnical Site  
Assessment**

**Proposed Site for Gasification Plant, Shelton  
Road, Willowbrook East Industrial Estate, Corby  
NN17 5XH**

**Clean Power Properties Ltd**

**Delta-Simons Project No. 15-0645.02**

**Issued: December 2015**

**EXECUTIVE SUMMARY**  
**ENVIRONMENTAL AND GEOTECHNICAL SITE ASSESSMENT**  
**PROPOSED SITE FOR GASIFICATION PLANT, SHELTON ROAD, WILLOWBROOK**  
**EAST INDUSTRIAL ESTATE, CORBY NN17 5XH**  
**DELTA-SIMONS PROJECT NUMBER: 15-0645.02**

<b>Context and Purpose</b>	<p>Delta-Simons Environmental Consultants Limited was instructed by Clean Power Properties Limited, to undertake an Environmental and Geotechnical Assessment of a proposed site being considered for acquisition for redevelopment as a gasification plant at Shelton Road, Willowbrook East Industrial Estate, Corby NN17 5XH.</p> <p>The Site investigation has been carried out in order to provide information on the quality of the soil and groundwater beneath the Site in the context of land contamination and provide information on the ground gas regime beneath the Site. In addition, the assessment will provide geotechnical information to assist in the design of suitable foundations.</p>
<b>Current Site Status</b>	<p>The Site, comprises a flat area covered by roadways and gravel surfaced parking bays, used for open storage of cars. A landscaped strip runs along the northern and eastern edges of the Site. The Site is part of a wider area used for storage of cars, extending to the west and south, and industrial/commercial buildings associated with the Willowbrook East Industrial Estate, to the south. Further south, beyond Steel Road, are facilities owned by Tata Steel and associated with the former Corby Steelworks.</p>
<b>Environmental Setting</b>	<p>The Site is reportedly underlain by a significant thickness of Made Ground, comprising granular cover material overlying reworked glacial till, overlying steelworks/settlement lagoon waste fill. This overlies further Made Ground over remnants of the previously worked bedrock of the Northamptonshire Sand Ironstone, classified as a Secondary A Aquifer. Groundwater has been previously observed in the Made Ground and bedrock.</p> <p>The Site is not located within a groundwater Source Protection Zone (SPZ) and there are no groundwater abstraction records within 2 km. of the Site. The nearest surface water feature is the channelized Willow Brook North Arm, located approximately 8 m to the north of the Site. The nearest surface water abstraction record is 1,865 m south of the Site, for cooling purposes, now revoked.</p> <p>The environmental sensitivity of the Site setting is considered to be low to moderate given the proximity of the Willow Brook North Arm to the northern Site boundary, the significant thickness of low permeability reworked glacial till, the designation of the bedrock as a Secondary A aquifer, and the lack of proximate ground and surface water abstractions.</p>
<b>Site Investigation</b>	<p>The ground investigation undertaken by Delta-Simons comprised:</p> <ul style="list-style-type: none"> <li>△ Drilling of 20 dynamic sampler boreholes (DS101 to 119 and DS107a) to a maximum depth of 3.0 m bgl;</li> <li>△ Drilling of ten cable percussion borehole (BH101 to BH110) to a maximum depth of 20.45 m bgl;</li> <li>△ Drilling of four rotary boreholes (BHR1 to BHR4) to a maximum depth of 30.0 m bgl;</li> <li>△ Installation of 10 selected dynamic sampler, five cable percussive, and four rotary boreholes with 50 mm internal diameter gas and groundwater monitoring wells;</li> <li>△ Standard penetration tests (SPTs) were undertaken every 1.00 m to 5.00 m bgl, then every 1.50 m thereafter (where undisturbed sampling was not undertaken), and at selected intervals in the rotary boreholes;</li> <li>△ Completion of two days truck mounted Cone Penetrometer Testing (CPT) over 10 targeted locations, progressed to a maximum depth of 25.15 m bgl;</li> <li>△ Collection of disturbed and undisturbed soil samples from selected locations for</li> </ul>

	<p>subsequent laboratory environmental analysis and geotechnical testing;</p> <ul style="list-style-type: none"> <li>△ Collection of groundwater samples from installed boreholes on one occasion; and</li> <li>△ Four rounds of gas and groundwater level monitoring.</li> </ul>
<b>Ground Conditions</b>	<p>Encountered ground conditions comprised a thin layer of granite aggregate and topsoil, topsoil or asphalt hardstanding at each intrusive location. Made Ground (Fill) was encountered in each borehole location advanced and generally comprised a shallow layer of light greyish brown, slightly gravelly sand, underlain by greyish black/brown and greenish brown, slightly silty/sandy/gravelly clays with variable layers of pseudo-fibrous and fibrous peat. Gravels generally consisted of fine to coarse sandstone and chalk. Orangey brown, slightly clayey sand was encountered in BH101, BH102 and BH103, and is considered to represent possible fill material with a maximum depth of fill encountered being 20.5 mbgl.</p> <p>The Northampton Sand Formation, consisting of strong, massive orangey brown sandstone was encountered in boreholes R1, R3 and R4 and BH109. The Northampton Sand Formation was not present in all locations drilled indicating this had been potentially extracted to its full depth in parts of the Site. Underlying the fill, possible fill or Northampton Sand Formation, were deposits of the Whitby Mudstone Formation comprising, weak, dark grey, slightly weathered, laminated mudstone and was proven to a maximum depth of 29.8 m bgl. Resting groundwater levels recorded during the return monitoring visits were between 0.10 m bgl and 20.33 m bgl.</p>
<b>Environmental Findings</b>	<p>The chemical analysis undertaken on selected soil samples did not identify widespread significantly elevated concentrations of contamination in the tested locations.</p> <p>A hotspot of TPH contamination was identified in DS107a, however, this is not considered to represent a risk in the context of the proposed redevelopment which it is understood will comprise hardstanding. Asbestos (amosite lagging) was identified in one sample within the Made Ground (2.2-2.5mbgl).</p> <p>Groundwater chemical analysis results indicate only slightly elevated concentrations of boron and selenium, limited to the rotary borehole R4. Slightly elevated concentrations of Mercury were identified in six of the locations sampled. These exceedance are not considered significant as the Site is not located within a Source Protection Zone, and there are no groundwater abstractions within 2 km of the Site. Marginal exceedances are likely to be representative of wider groundwater quality.</p> <p>Ground gas monitoring indicated low level gas flow rates and slightly elevated concentrations of methane (maximum concentration of 10.4 % v/v) and carbon dioxide (maximum concentration of 4.9% v/v) giving the Site a Characterisation Situation 2 (CS2 – Low Risk). Basic ground gas protection measures will be required for the development.</p>
<b>Environmental Recommendations</b>	<p>Based on the information obtained to date the following information can be concluded:</p> <ul style="list-style-type: none"> <li>△ Significantly elevated concentrations of targeted contaminants above the respective assessment criteria which are considered to represent a risk in the context of the redevelopment have not been identified in soils and a specific remediation exercise is not considered to be required;</li> <li>△ If landscaping is incorporated into the design, a minimum 300 mm of certified suitable for use topsoil/subsoil should be allowed for in such locations;</li> <li>△ Although good site coverage has been achieved, unidentified localised areas of contamination may exist at the Site and an appropriate 'hotspot' protocol should be in place should such contamination be identified during construction;</li> <li>△ Based on the ground gas monitoring conducted to date, basic gas protection measures would be required to be incorporated into the development for the proposed works;</li> <li>△ For materials removed from site to achieve cut and fill / for pile caps etc. shallow soils likely to be encountered should generally be considered as non-</li> </ul>

	<p>hazardous for disposal. Additional waste classification testing as part of the development process (including WAC testing) may be required to facilitate off-Site disposal of Made Ground materials once the specific materials to be removed are identified;</p> <ul style="list-style-type: none"> <li>△ As with all brownfield development sites, groundworkers who are required to perform sub-surface work at the Site should be made aware of the known contaminants in soil and groundwater and the possibility of encountering additional localised low levels of contamination. This should include information on the potential to encounter Asbestos Containing Materials (ACM). Safe working procedures should be implemented, including damping down of excavations and stockpiles in line with general dust generation mitigation and appropriate levels of PPE provided and utilised. This recommendation should be captured in Site health and safety documentation and in maintenance plans Suitable dust suppression techniques will need to be implemented during the redevelopment; and</li> <li>△ Given the history of the Site, it should be assumed that upgraded water pipe material will be required, albeit, confirmation should be sought from the Local Water Authority.</li> </ul>
<p><b>Geotechnical Recommendations</b></p>	<p>Based on the information obtained to date the following information can be concluded:</p> <ul style="list-style-type: none"> <li>△ The Made Ground Fill material is considered to be too soft, variable, compressible and unpredictable in its existing condition for conventional shallow foundations at the Site given the expected large design loads;</li> <li>△ A piled foundation solution using bored piles transferring loads to competent bedrock geology encountered at depth is likely to be suitable for the expected design loads. It is recommended that, once pile positioned have been confirmed, each location is predrilled to confirm depth to bedrock and ensure locations are clear of obstructions;</li> <li>△ It is considered that ground improvement techniques would not be appropriate for the expected design loads given the depth of Made Ground Fill encountered beneath the Site;</li> <li>△ Due to significant thickness of Made Ground, soils are considered too variable and unpredictable in its existing state for ground bearing floor slabs;</li> <li>△ In the absence of In-situ DCP CBR tests, it is recommended that a conservative value of 2% be adopted for preliminary pavement design;</li> <li>△ The use of soakaways as a form of drainage is not recommended for the Site given the depth of Made Ground encountered;</li> <li>△ All shallow foundation or services excavations at the Site should be considered unstable, therefore, temporary support of all excavations should be considered when excavating on-Site; and</li> <li>△ The conditions of the soils at the Site would be classified as Design Sulphate Class DS-4 and ACEC Class AC-4 for soils and groundwater. Piling is not generally considered to result in disturbed ground, therefore, any pyrite is unlikely to be oxidised. As such, consideration can be given to water soluble sulphate content of the clay, which in this case would result in a DS-2 classification based on the results obtained.</li> </ul>
<p><b>Overall Statement of Risk</b></p>	<p>On the basis of available information, Delta-Simons considers that with regard to potential soil and groundwater contamination issues and associated environmental liabilities, the Site represents an investment opportunity with a <b>Low</b> overall risk status.</p> <p>In the context of a commercial redevelopment remediation would be limited to basic engineering measures and a specific remediation programme will not be needed.</p>
<p><b>This Environmental Assessment Executive Summary is intended as a summary of the Assessment of the Site based on information received by Delta-Simons at the time of production.</b></p>	

## TABLE OF CONTENTS

1.0	INTRODUCTION.....	1
1.1	Authorisation.....	1
1.2	Context and Purpose.....	1
1.3	Limitations .....	2
2.0	SITE STATUS, HISTORY AND ENVIRONMENTAL SETTING.....	4
2.1	Phase I Desk Study and Walkover Summary.....	4
3.0	SITE INVESTIGATION .....	5
3.1	Walkover Survey .....	5
3.2	Intrusive Investigation.....	5
3.3	Ground Investigation Factual Data .....	5
3.4	In-situ Testing and Sampling .....	6
3.5	Laboratory Investigation .....	6
3.5.1	Environmental Soil Analysis .....	6
3.5.2	Environmental Groundwater Analysis .....	7
3.5.3	Geotechnical Testing .....	8
4.0	GROUND AND GROUNDWATER CONDITIONS .....	10
4.1	Ground Conditions.....	10
4.2	Groundwater.....	10
5.0	GROUND CONDITIONS AND MATERIAL PROPERTIES.....	12
5.1	Summary of Geotechnical Parameters.....	12
5.2	Geochemical Testing.....	12
6.0	GEOTECHNICAL ASSESSMENT .....	14
6.1	Summary of Development Proposals .....	14
6.2	Foundations.....	14
6.2.1	Shallow Foundations.....	14
6.2.2	Ground Improvement Techniques.....	14
6.2.3	Piled Foundation .....	14
6.2.4	Floor Slabs .....	15
6.3	Roads and Pavements .....	15
6.4	Drainage .....	16
6.5	Excavations .....	16
6.6	Groundwater.....	16
6.7	Chemical Attack on Buried Concrete.....	16
7.0	ENVIRONMENTAL ASSESSMENT.....	17
7.1	Introduction.....	17
7.2	Guidance for Analytical Results: Generic Assessment Criteria.....	17
7.2.1	Human Health Soil Generic Assessment.....	17
7.2.2	Groundwater Generic Assessment .....	17
7.3	Soil Analytical Results .....	18
7.4	Groundwater Analytical Results .....	20
7.5	Ground Gas Monitoring .....	21
7.6	Waste Classification .....	23
7.6.1	Regulatory Guidance .....	23
7.6.2	Analytical Review .....	24
8.0	ASSESSMENT OF RISK AND CONCEPTUAL MODEL .....	26
8.1	Risk Assessment.....	26
8.2	Identified Sources of Contamination.....	26
9.0	ASSESSMENT OF RISKS AND LIABILITIES .....	29
9.1	Statement of Risk .....	29
10.0	CONCLUSIONS AND RECOMMENDATIONS.....	30
10.1	General.....	30
10.2	Environmental Recommendations.....	30
10.3	Summary of Geotechnical Recommendations .....	31
10.4	Statement of Risk .....	32

## **Tables**

Table 1	Summary of Site Description and Site Setting
Table 2	Soil Sample Environmental Analyses
Table 3	Geotechnical Soil and Rock Sample Analyses Summary
Table 4	Groundwater Sample Analyses
Table 5	Summary of Observed Ground Conditions
Table 6	Summary of Groundwater Depths
Table 7	Summary of Geotechnical Parameters
Table 8	BRE SD1 Test Result Summary
Table 9	Estimated Likely Allowable Pile Capacities
Table 10	Soil Sample Analysis Summary
Table 11	Groundwater Sample Analysis Summary
Table 12	Ground Gas Monitoring Data
Table 13	Conceptual Site Model
Table 14	Liability Assessment

## **Figures**

Figure 1	Site Location Map
Figure 2	Site Layout and Borehole Location Plan
Figure 3	Indicative Geological Section
Figure 4a&b	Top of Bedrock
Figure 5a&b	Groundwater Flow Plot
Figure 6	Uncorrected SPT, Depth and Strata Type
Figure 7	Cohesive Plasticity Chart

## **Appendices**

Appendix I	Borehole Logs
Appendix II	SPT Calibration Certificate
Appendix III	Gas and Groundwater Monitoring Results
Appendix IV	Truck mounted CPT results
Appendix V	Geotechnical Laboratory Results
Appendix VI	Delta-Simons Adopted Human Health Generic Assessment Criteria
Appendix VII	Analytical Results - Soils
Appendix VIII	Analytical Results - Water
Appendix IX	HWOL Analysis Results



**ENVIRONMENTAL AND GEOTECHNICAL ASSESSMENT**  
**PROPOSED SITE FOR GASIFICATION PLANT, SHELTON ROAD, WILLOWBROOK**  
**EAST INDUSTRIAL ESTATE, CORBY NN17 5XH**  
**CLEAN POWER PROPERTIES LTD**  
**DELTA-SIMONS PROJECT NUMBER: 15-0645.02**

**1.0 INTRODUCTION**

**1.1 Authorisation**

Delta-Simons Environmental Consultants ('Delta-Simons') was instructed by Clean Power Properties Limited (the 'Client'), to undertake an Environmental and Geotechnical Assessment of a proposed site being considered for acquisition for redevelopment as a gasification plant at Shelton Road, Willowbrook East Industrial Estate, Corby NN17 5XH (hereafter referred to as the 'Site').

**1.2 Context and Purpose**

It is understood that the Client is seeking to establish the potential in-ground geotechnical and environmental risks and liabilities as part of due diligence for the proposed purchase and development of the Site. This Environmental and Geotechnical Assessment was prepared following completion of Delta-Simons' report 'Phase I Environmental Assessment, Proposed site for gasification plant at Shelton Road, Willowbrook East Industrial Estate, Corby NN17 5XH' (ref. 15-0645.01), dated July 2015. It is assumed that the reader is familiar with the contents and findings of this report, although a summary of the information is provided.

The Site, comprising 2.53Ha of a previously restored quarry, is currently utilised for open storage of vehicles. The Site has previously been subject to a planning application for redevelopment of the Site as an Advanced Conversion Technology (ACT) and Anaerobic Digestion (AD) facility comprising an 8-12 MWe pyrolysis plant and a 2-3 MWe digestion facility, together with ancillary and support facilities. It is understood the Client is considering an alternative gasification facility for the Site.

Specific geotechnical elements of the investigation were specified by Bouygues E&S Contracting Limited following discussions with the Client to support the preparation of a design by Bouygues.

The purpose of completing the Environmental Assessment is to provide information on the quality of the soil and groundwater beneath the Site in the context of land contamination and provide information on the ground gas regime beneath the Site.

The purpose of completing the Geotechnical Assessment is to provide information regarding the strength and chemical characteristics of the underlying geological deposits in order to aid foundation design of the proposed redevelopment of the Site.

This investigation has been completed in general accordance with BS5930:2015, Code of Practice for Ground Investigations.

This Report has been produced in accordance with the current relevant guidance and best practice as set out within British Standard BS10175, Contaminated Land Report 11 and the National Planning Policy Framework (NPPF).

This Report satisfies 'BREEAM New Construction 2011: LE01 – Site Selection: Criterion 2' by detailing the results of site-investigation works; identifying the degree and sources of contamination; assessing risks to human and environmental health; and providing recommendations for remediation.

### **1.3 Limitations**

Although reference may be made to archaeological and ecological issues, or the potential presence of asbestos containing materials (ACMs) and invasive weeds, this Assessment does not constitute an archaeological or ecological assessment, nor does it constitute an asbestos inspection or invasive weeds survey.

This document provides an assessment of the potential and actual contamination of the ground below the Site based upon the available information and in the context of the scope of works undertaken during this investigation. It does not provide a flood risk assessment, as such, any comments relating to such matters are for information only.

During the preparation of this Assessment, Delta-Simons reviewed and evaluated information provided by the Client, Groundsure, Chemtest Ltd and others. Delta-Simons' conclusions, opinions and recommendations are based upon this information. Delta-Simons does not warrant the accuracy of the information provided to it and will not be responsible for

any opinions which Delta-Simons has expressed, or conclusions which it has reached in reliance upon information which is subsequently proven to be inaccurate.

The recommendations contained in this assessment represent our professional opinions. These opinions were arrived at in accordance with currently accepted industry practices and hydrological and engineering practices at this time and location and, as such, are not a guarantee that the Site is free of hazardous or potentially hazardous materials or conditions.

This assessment was prepared by Delta-Simons for our Client and parties as detailed in the appointment. Any third party using this assessment without reliance does so entirely at their own risk. Delta-Simons makes no warranty or representation whatsoever, express or implied, with respect to the use by a third party of any information contained in this assessment or its suitability for any purpose. Delta-Simons assumes no responsibility for any costs, claims, damages or expenses (including any consequential damages) resulting from the use of this assessment or any information contained in this assessment by a third party.

The Report has not considered the adjacent slope in detail following discussions with the D&B Contractor, this has been considered by others as detailed in the Phase 1 Report prepared for the Site.

## **2.0 SITE STATUS, HISTORY AND ENVIRONMENTAL SETTING**

### **2.1 Phase I Desk Study and Walkover Summary**

A summary of the current Site status, Site history and environmental setting of the Site from the Delta Simons Phase I Environmental Assessment Report, is presented in Table 1. This review includes information sourced from an Envirocheck Report and historical maps; Environment Agency (EA) and British Geological Survey (BGS) Data; previous third party reports; and observations made during a Site walkover in July 2015.

**Table 1 – Summary of Site Status, History and Environmental Setting**

<b>Current Site &amp; Surrounding Area</b>	<p>The Site is located to the west of Shelton Road in the Willowbrook East Industrial Estate, 3 km north-east of Corby town centre, with an area of approximately 2.53 Ha. The Site comprises a flat area covered by roadways and gravel surfaced parking bays, used for open storage of cars. A landscaped strip runs along the northern and eastern edges of the Site.</p> <p>The Site is proposed to be developed as a waste gasification plant, comprising a large industrial building containing process plant, a number of external fire water tanks, a surface water flow balancing pond, hard surfaced roadways, parking and vehicle delivery areas and landscaping, and is considered to be a low sensitivity development with a commercial end-use.</p> <p>The Site is part of a wider area used for storage of cars, extending to the west and south, and industrial/commercial buildings associated with the Willowbrook East Industrial Estate, to the south. Further south, beyond Steel Road, are facilities owned by Tata Steel and associated with the former Corby Steelworks.</p>
<b>Environmental Setting</b>	<p>The Site is reportedly underlain by a significant thickness of Made Ground, comprising granular cover material overlying around 8 m of reworked glacial till, overlying a further 2 m to 9 m of steelworks/lagoon waste fill. This overlies further Made Ground over remnants of the previously worked bedrock of the Northamptonshire Sand Ironstone, classified as a Secondary A Aquifer. Groundwater has been observed at between 8 m and 20 m below ground level (bgl) in the bedrock or Made Ground.</p> <p>The Site is not located within a groundwater Source Protection Zone (SPZ) and there are no groundwater abstraction records within 2 km. of the Site. The nearest surface water feature is the channelized Willow Brook North Arm, located approximately 8 m to the north of the Site. The nearest surface water abstraction record is 1,865 m south of the Site, for cooling purposes, now revoked.</p> <p>The environmental sensitivity of the Site setting is considered to be low to moderate given the proximity of the Willow Brook North Arm watercourse to the northern Site boundary, the significant thickness of low permeability reworked glacial till, the designation of the bedrock as a Secondary A aquifer, and the lack of proximate ground and surface water abstractions.</p>
<b>Historical Land Use</b>	<p>Historically the Site has been associated with opencast ironstone mining and backfilling with steelworks wastes and reworked overburden materials, prior to surface remediation works carried out in 2001-2002 for construction of the current vehicle storage area.</p>

### **3.0 SITE INVESTIGATION**

#### **3.1 Walkover Survey**

A representative of Delta-Simons carried out a walkover survey on the 1<sup>st</sup> September 2015 in order to confirm the location of the proposed exploratory holes.

#### **3.2 Intrusive Investigation**

The fieldwork was undertaken between the 1<sup>st</sup> September and the 8<sup>th</sup> September 2015, and comprised the following items.

- △ Supervision of all works by a Delta-Simons Geo-Environmental engineer. All boreholes were logged to BS5930:2015, Code of Practice for Ground Investigations;
- △ Service avoidance exercise;
- △ Drilling of 20 dynamic sampler boreholes (DS101 to 119 and DS107a) to a maximum depth of 3.0 m bgl;
- △ Drilling of ten cable percussion borehole (BH101 to BH110) to a maximum depth of 20.0 m bgl;
- △ Drilling of four rotary boreholes (BHR1 to BHR4) to a maximum depth of 30.0 m bgl;
- △ Installation of 10 selected dynamic sampler, five cable percussive, and four rotary boreholes with 50 mm internal diameter gas and groundwater monitoring wells;
- △ Standard penetration tests (SPTs) were undertaken every 1.00 m to 5.00 m bgl, then every 1.50 m thereafter (where undisturbed sampling was not undertaken), and at selected intervals in the rotary boreholes.;
- △ Completion of two days truck mounted Cone Penetrometer Testing (CPT) over 10 targeted locations, progressed to a maximum depth of 25.15 m bgl;
- △ Collection of disturbed and undisturbed soil samples from selected locations for subsequent laboratory environmental analysis and geotechnical testing;
- △ Collection of groundwater samples from installed boreholes on one occasion; and
- △ Four rounds of gas and groundwater level monitoring.

#### **3.3 Ground Investigation Factual Data**

An intrusive location plan is presented as Figure 2.

Delta-Simons engineer verified borehole logs are presented as Appendix I, the SPT Calibration Certificates (in accordance with BS EN ISO 22476-3:2005 incorporating

corrigendum No. 1 2007), Geotechnical investigation and testing - Field testing - Part 3: Standard penetration test for SPT trip hammers are presented as Appendix II.

The gas and groundwater monitoring results are presented as Appendix III.

### **3.4 In-situ Testing and Sampling**

SPT tests were undertaken in all boreholes at 1.00 m intervals until 5.00 m bgl, then every 1.5 m bgl thereafter (where undisturbed sampling was not undertaken). The results of these tests are presented in the borehole logs included as Appendix I.

Sampling comprised disturbed tub and jar samples generally taken at 1.00 m intervals as detailed on the borehole logs.

The results of the truck mounted CPT testing (including assumed material type and geotechnical properties) are included in Appendix IV.

### **3.5 Laboratory Investigation**

Following the ground investigations, a schedule of environmental and geotechnical and chemical laboratory testing was prepared by Delta-Simons.

#### **3.5.1 Environmental Soil Analysis**

The location, depth and suite of analyses selected for each environmental soil sample is presented in Table 2.

**Table 2 – Soil Sample Environmental Analyses**

Borehole Location	Depth (mbgl)	Strata/Sample ID	Standard Suite *	sTPH + Fuel Type	SVOC	WAC Testing (Inert)
DS104	0.2-0.3	SAND	✓	✓		
DS104	1.0-1.4	CLAY	✓	✓		
DS102	0.3-0.5	CLAY	✓			
DS105	0.2-0.3	SAND	✓	✓		
DS105	2.0-2.4	CLAY			✓	
DS103	0.2-0.3	SAND	✓	✓		
DS103	0.6-0.9	CLAY			✓	
DS106	0.2-0.3	SAND	✓	✓		
DS106	1.5-1.8	CLAY	✓			
DS107a	0.08-0.11	GRAVEL			✓	
DS107a	0.9-1	CLAY	✓	✓		
DS107a	2.3-2.7	CLAY		✓		✓
DS111	0.08-0.1	GRAVEL	✓			
DS111	1.3-1.5	CLAY			✓	
DS109	0.1-0.2	SAND	✓	✓		
DS109	2.2-2.5	CLAY	✓			
DS110	1.6-1.8	CLAY	✓			✓
DS110	1.8-2.1	GRAVEL			✓	

DS112	0.4-0.5	SAND	✓			
DS107	0.2-0.3	SAND	✓			
DS107	1.3-1.7	CLAY			✓	
DS101	0.1-0.25	SAND			✓	
DS101	0.5-0.8	CLAY	✓			
DS108	0.1-0.2	SAND			✓	
DS108	0.7-1	CLAY	✓			
DS113	0.2-0.3	SAND	✓	✓		
DS113	1.8-2	CLAY			✓	
DS114	0.7-1	CLAY	✓			
DS116	0.2-0.3	SAND	✓	✓		
DS116	0.3-0.7	CLAY			✓	
DS115	0.05-0.1	GRAVEL	✓	✓		
DS115	1.5-1.8	CLAY			✓	
DS119	1.8-2	CLAY	✓	✓		
DS117	1.3-1.5	CLAY			✓	✓
DS117	0.1-0.3	SAND	✓	✓		
DS118	0.8-1	CLAY	✓			
DS118	0.2-0.3	SAND			✓	
BH108	2.5-3	CLAY	✓	✓		
BH108	8-8.45	ES2	✓			
BH110	2.5-3	ES	✓			
BH101	11-11.5	ES3	✓	✓		
BH101	4.2	ES	✓			
BH102	11	ES4	✓	✓		
BH102	3	ES	✓			
BH103	0.5	ES2				✓
BH103	7.5-8.0	ES3	✓	✓		
BH103	16	ES5	✓			
BH105	4	ES1			✓	
BH105	11	ES3	✓	✓		
BH105	19	ES5	✓			
BH109	3.5-4.0	ES1	✓	✓		✓
BH109	6.5	ES2			✓	
BH109	14	ES4	✓			
BH104	4.1	ES1	✓			
BH104	10.5-11	ES3	✓	✓		
BH106	4.5	ES1	✓			
BH106	11	ES3	✓			
BH107	4.2	ES1	✓			
BH107	12.5	ES3	✓			
<b>Total</b>			<b>42</b>	<b>20</b>	<b>15</b>	<b>5</b>

- MG = Made Ground  
 Project Specific Suite = Arsenic, boron, cadmium, chromium (III & VI), copper, lead, mercury, nickel, selenium, zinc, Speciated Polycyclic Aromatic Hydrocarbons (sPAH), pH, phenol and cyanides, Volatile Organic Compounds (VOC), asbestos screening, total sulphur, water soluble sulphate and acid soluble sulphate.  
 sTPH = Total and speciated total petroleum hydrocarbons  
 SVOC = Semi-volatile organic compounds  
 WAC Testing = Waste Acceptance Criteria Testing

### 3.5.2 Environmental Groundwater Analysis

The suite of analyses selected for each environmental groundwater sample is presented in Table 3.

**Table 3 – Groundwater Sample Analysis Summary**

Location	Project Specific Suite
R1	✓
R2	✓
R3	✓
R4	✓
BH101	✓
BH102	✓
BH104	✓
DS107	✓
DS116	✓
<b>Total</b>	<b>9</b>

Project Specific Suite = Arsenic, boron, cadmium, chromium (III & VI), copper, lead, mercury, nickel, selenium, zinc); Speciated Polycyclic aromatic hydrocarbons (sPAH); phenols and cyanide; pH and hardness, Speciated Total Petroleum Hydrocarbons (sTPH); Semi Volatile Organic Compounds (SVOC); Volatile Organic Compounds (VOC); water soluble sulphate.

### 3.5.3 Geotechnical Testing

The geotechnical testing was carried out by a UKAS accredited laboratory (PSL), in accordance with BS 1377 - Parts 2 to 9:1990 Methods of test for soils for civil engineering purposes. A summary of the location, depth, strata and selected analysis for each sample is presented in Table 4. Copies of the geotechnical laboratory test results are presented in Appendix V.

**Table 4 – Geotechnical Soil and Rock Sample Analyses Summary**

Location	Depth (m bgl)	Strata	Atterberg Limits and Moisture Content	Particle Size Distribution	Triaxial Test (kPa)	Unconfined Compressive Strength	ID Consolidation	Determination of Organic Matter
R3	21.1-21.3	Mudstone				✓		
R3	21.75-22	Mudstone				✓		
R3	22-22.15	Mudstone				✓		
BH101	1-1.5	Granular		✓				
BH106	1-1.5	Granular		✓				
BH107	1-1.5	Granular		✓				
BH103	1.0	Granular		✓				
BH103	3.5-4	Clay		✓				
BH106	4.5-5	Clay		✓				
BH109	3.5-4	Clay		✓				
BH108	4.5-5	Clay		✓				
BH102	2.2	Clay	✓					
BH104	3	Clay	✓					
BH106	3	Clay	✓					
BH108	4	Clay	✓					
BH107	3	Clay	✓					
BH106	10	Peaty Clay	✓					
BH106	11.5	Peaty Clay		✓				
BH102	11.5	Peaty Clay	✓					
BH102	12-12.5	Peaty Clay		✓				
BH101	11-11.5	Clay		✓				



Location	Depth (m bgl)	Strata	Atterberg Limits and Moisture Content	Particle Size Distribution	Triaxial Test (kPa)	Unconfined Compressive Strength	ID Consolidation	Determination of Organic Matter
BH104	10.5-11	Clay		✓				
BH107	12.5-13	Clay		✓				
BH108	8-8.5	Clay		✓				
BH102	14.5	Clay	✓					
BH109	9	Clay	✓					
BH110	9	Clay	✓					
BH107	11.5	Clay	✓					
BH108	8	Clay	✓					
R1	29	Mudstone	✓					
R2	20.8	Mudstone	✓					
R3	23.5	Mudstone	✓					
R4	25	Mudstone	✓					
BH101	8	Peaty Clay						✓
BH102	13	Peaty Clay						✓
BH107	6.7	Peaty Clay						✓
BH106	8	Peaty Clay						✓
BH101	2.5	Clay			✓			
BH101	13.5	Clay			✓			
BH103	4.5	Clay			✓			
BH103	16.5	Clay			✓			
BH108	2.5	Clay			✓			
BH108	13.5	Clay			✓			
BH107	4.5	Clay			✓			
BH107	16.5	Clay			✓			
BH105	3.5-3.95	Clay					✓	
BH105	12-12.45	Clay					✓	
BH106	7.5-7.95	Clay					✓	
BH106	13.5-13.95	Clay					✓	
<b>Total</b>			<b>16</b>	<b>14</b>	<b>8</b>	<b>3</b>	<b>4</b>	<b>4</b>

## **4.0 GROUND AND GROUNDWATER CONDITIONS**

### **4.1 Ground Conditions**

A summary of the observed ground conditions at the Site are provided in Table 5. Geological section is presented as Figures 3a to 3c. The depth to rock head contour plot is presented as Figure 4a, and a 3D representation as Figure 4b.

**Table 5 – Summary of Observed Ground Conditions**

<b>Strata</b>	<b>Description of Strata</b>	<b>Depth Range of Strata Base (m bgl)</b>
<b>Topsoil/ Hardstand</b>	Granite aggregate and topsoil, topsoil or asphalt hardstanding was present at each borehole location.	<i>0.1 m bgl</i>
<b>Made Ground (Fill)</b>	Made Ground was encountered in each borehole location advanced and generally comprised a shallow layer of light greyish brown, slightly gravelly sand, underlain by greyish black/brown and greenish brown, slightly silty/sandy/gravelly clays with variable layers of pseudo-fibrous and fibrous peat. Gravels generally consisted of fine to coarse sandstone and chalk.	<i>13.80 m bgl (BH103) to 20.50 m bgl (R3)</i>
<b>Made Ground (Possible Fill)</b>	Orangey brown, slightly clayey sand was encountered in BH101, BH102 and BH103, and is considered to represent possible fill material.	<i>18.5 m bgl (BH102) to 16.9 m bgl (BH103)</i>
<b>Northampton Sand Formation</b>	Strong, massive orangey brown sandstone. Encountered in Rotary boreholes BH109, R1, R3 and R4.	<i>18.30 m bgl (BH109) to 22.75 m bgl (R3)</i>
<b>Whitby Mudstone Formation</b>	Weak, dark grey, slightly weathered, laminated mudstone.	<i>Proven to a maximum depth of 29.8 m bgl (R3).</i>

Staining and a strong hydrocarbon odour was encountered between 0.9-1.0 m bgl in the clay of DS107a. No other visual or olfactory evidence of significant contamination was encountered during the intrusive works.

### **4.2 Groundwater**

Resting groundwater levels recorded during the return monitoring visits were between 0.10 m bgl and 20.33 m bgl.

A summary of the maximum and minimum groundwater depths measured in each of the boreholes from the monitoring events between the 07<sup>th</sup> and 29<sup>th</sup> of September 2015 are summarised in Table 6.

**Table 6 – Summary of Groundwater Depths (m bgl)**

Borehole ID	Minimum Depth to Groundwater (m bgl)	Maximum Depths to Groundwater (m bgl)	Ground Level (m AOD)	Groundwater Elevation (m AOD)	
				Minimum	Maximum
R1	14.80	15.96	105.834	91.034	89.874
R2	18.48	20.33	105.503	87.023	85.173
R3	18.39	18.66	104.568	86.178	85.908
R4	16.57	18.71	106.257	87.216	87.547
BH101	14.35	15.63	107.198	92.848	91.568
BH102	14.37	14.68	106.544	92.174	91.864
BH104	18.44	18.91	105.656	87.216	86.746
BH106	N/A	N/A	105.671	N/A	N/A
BH107	N/A	N/A	104.426	N/A	N/A
DS101	0.46	1.14	104.232	103.772	103.092
DS104	0.40	0.44	104.955	104.555	104.515
DS105	0.13	0.31	104.489	104.359	104.179
DS107	0.16	0.71	105.780	105.620	105.070
DS107a	0.33	0.8	105.551	105.221	104.751
DS109	0.91	2.25	105.321	104.411	103.071
DS113	0.12	0.36	106.550	106.430	106.190
DS114	0.13	0.72	105.758	105.628	105.038
DS116	0.12	0.73	105.545	105.425	104.815
DS117	0.10	1.82	106.397	106.297	104.577
DS118	0.29	0.96	106.898	106.608	105.938

It is considered likely that the shallow waters encountered in the dynamic sample boreholes are resultant from perched water and therefore considered separately to the deeper consistent groundwater body.

Based on the measured groundwater levels from the surface and the measured surface elevation (m AOD) at each location, the groundwater elevation (m AOD) has been inferred. An interpolated contour plot for the shallowed perched groundwater is presented as Figure 5a (indicated to flow in a south-easterly direction), and a plot for the deeper resting groundwater is presented as Figure 5b (also indicated to flow in a south-easterly direction).

## **5.0 GROUND CONDITIONS AND MATERIAL PROPERTIES**

### **5.1 Summary of Geotechnical Parameters**

A plot of corrected SPT 'N' values against depth for all strata is presented as Figure 6 and a plasticity chart is presented as Figure 7. A summary of geotechnical parameters for each strata are summarised in Table 7.

**Table 7: Summary of Geotechnical Parameters**

	<b>Made Ground Fill</b>	<b>Whitby Mudstone Formation</b>	<b>Northampton Sand Formation</b>
Moisture Content - w	16 - 64%	13 - 19%	9.7 – 16%
Liquid Limit - w <sub>L</sub>	31 - 100%	48 - 60%	-
Plastic Limit - w <sub>P</sub>	17 - 46%	23 - 28%	-
Plasticity Index - I <sub>P</sub>	14 - 54%	25 - 32%	-
Uncorrected SPT N	2 – 50*	50*	50*
Corrected SPT 'N' <sup>1</sup>	2.1 – 63.6	62.5	62.5
Bulk Density - ρ <sub>b</sub>	1.75 – 2.13	-	2.35 – 2.45
Bulk Unit Weight <sup>3</sup> - γ <sub>b</sub>	17.2 - 20.9 kN/m <sup>3</sup>	-	23.1 – 24.0 kN/m <sup>3</sup>
Undrained Shear Strength - C <sub>u</sub> <sup>4</sup>	31 - 105 kPa	-	-
Coefficient of Volume Compressibility - m <sub>v</sub> <sup>4</sup>	0.087 - 0.171 m <sup>2</sup> /MN	-	-
Coefficient of Consolidation - c <sub>v</sub> <sup>4</sup>	0.877 - 4.2 m <sup>2</sup> /yr	-	-
Uniaxial Compressive Strength	-	-	4.7 - 14.4 MPa
Organic Matter	1.9 - 9.1%	-	-

1. SPT N values corrected for energy delivered to drive rods utilising the determined energy ratio (E<sub>r</sub>): N<sub>60</sub> = (E<sub>r</sub> x N) / 60 after BS EN ISO 22476-3:2005 [Ref. 4]
2. \*Note – An SPT 'N' value of 50 is considered to be a refusal, although original results may be higher, a maximum SPT 'N' value of 50 has been used.
3. Bulk unit weight (kN/m<sup>3</sup>) = 9.81 x bulk density (Mg/m<sup>3</sup> - as determined by laboratory testing)
4. From laboratory test results.

### **5.2 Geochemical Testing**

Geochemical analysis was undertaken on 44 soil samples and nine groundwater samples, tested for selective contaminants (BRE Special Digest 1:2005 (3<sup>rd</sup> Edition), Concrete in Aggressive Ground, the results of which are summarised in Table 8.

**Table 8: BRE SD1 Test Result Summary**

	<b>No. of Tests</b>	<b>Minimum</b>	<b>Maximum</b>
Soil - pH	44	7.3	10.2
Soil - Total Sulphur	44	0.05%	3.6%
Soil – Acid Soluble Sulphate	30	0.12%	5.7%
Soil - Water Soluble Sulphate	44	0.10 g/l	1.6 g/l
Groundwater - pH	9	7.0	9.3
Groundwater - Sulphate	9	120 mg/l	1400 mg/l

## **6.0 GEOTECHNICAL ASSESSMENT**

### **6.1 Summary of Development Proposals**

The Site comprises 2.53Ha of restored quarry, and it is understood the Client is considering to develop the Site for a gasification facility. At this stage, detailed design loads are not known, however, structural loadings are expected to be moderate to high.

### **6.2 Foundations**

#### **6.2.1 Shallow Foundations**

Given the depth of Made Ground Fill material (up to circa 20 m bgl), which is considered to be too soft, variable, compressible and unpredictable in its existing condition for conventional shallow foundations at the Site given the expected large design loads.

#### **6.2.2 Ground Improvement Techniques**

It is not considered that ground improvement techniques would be appropriate for the expected design loads given the depth of Made Ground Fill encountered beneath the Site.

#### **6.2.3 Piled Foundation**

A piled foundation solution using bored piles transferring loads to competent bedrock geology encountered at depth is likely to be suitable for the expected design loads, predominantly utilising end bearing capacity due to the depth of Made Ground Fill, the ongoing settlement of which may induce negative skin friction. Furthermore, consideration should be given to the variable depth to bedrock (Figures 4a and 4b), and the potential presence of in-ground obstructions. As such it is recommended, once pile positions have been confirmed, that each location is predrilled to confirm depth to bedrock and ensure locations are clear of obstructions.

The precise method of pile installation and applicability of proprietary systems, diameters and depths required would need to be informed based on the results of this investigation, by discussions with a suitably experienced piling contractor.

For preliminary design purposes, the following allowable continuous flight auger (CFA) loads have been assessed based on commonly accepted methods for determining pile base resistance and skin friction/adhesion (utilising a bulk Factor of Safety of 2.5); any negative skin friction effects associated with Made Ground Fill

strata have been ignored. Commercial pile designers may use different parameters, design factors or safety factors than published methods.

**Table 9: Estimated Likely Allowable Pile Capacities (CFA Piles)**

Typical Pile Size		Allowable Pile Capacity on a Single Pile
0.45 m diameter	25 m	460 kN
0.60 m diameter	25 m	690 kN
0.75 m diameter	25 m	960 kN

Individual pile/ pile group loads will be a function of the surface area of the piles to be employed at the Site and their method of construction.

Normal static and dynamic load testing (including uplift tests) should be considered to achieve satisfactory quality control/assurance in accordance with good practice.

There will be a requirement for the placement of a suitably engineered piling mat, which should be designed and validated by a suitably qualified and experienced engineer.

#### **6.2.4 Floor Slabs**

Due to significant thickness of Made Ground, soils are considered too variable and unpredictable in its existing state for ground bearing floor slabs.

At this stage given the likely floor loads expected, it is recommended that a suspended floor slab could be adopted, transferring loads to piles through concrete ground beams/concrete frame.

### **6.3 Roads and Pavements**

In-situ DCP CBR test have not been undertaken within the scope of this investigation. In the absence of such tests, it is recommended that a conservative value of 2% be adopted for preliminary pavement design.

Consideration should be given to potential differential settlements between proposed hard stand areas and pile structures. The use of a geotextile and/or stabilisation is recommended where variable ground conditions are encountered to minimise potential differential settlement.

It is recommended that plate load CBR tests are undertaken at formation level prior to finalising pavement design.

#### **6.4 Drainage**

The use of soakaways as a form of drainage is not recommended for the Site given the thickness and variability of Made Ground encountered.

#### **6.5 Excavations**

It is expected that conventional mechanical excavators will readily remove the Made Ground fill likely to be encountered in shallow excavations.

All shallow foundation or services excavations at the Site should be considered unstable, therefore, temporary support of all excavations should be considered when excavating on-Site.

#### **6.6 Groundwater**

Resting groundwater levels recorded during the return monitoring visits were between 0.10 m bgl and 20.33 m bgl. It is considered likely that the shallow waters encountered in the dynamic sample boreholes associated with a localised perched water table. The deeper, consistent groundwater body ranged between 14.35 m bgl and 20.33 m bgl.

Groundwater is likely to be encountered in shallow excavations and trenches, and open excavations may collect surface waters. It is considered that the formation of sumps from which the water could be pumped may provide an adequate means of groundwater control.

#### **6.7 Chemical Attack on Buried Concrete**

In accordance with the recommendations of BRE Special Digest 1, 'Concrete in Aggressive Ground' 2005, the conditions of the soils at the Site would therefore, be classified as Design Sulphate Class DS-4 and ACEC Class AC-4 for soils and groundwater, when considering the most appropriate type of concrete to be used at the Site in order to resist chemical attack from elevated sulphate present in the soils for both shallow foundations and deeper piles (assuming mobile groundwater in potentially pyritic soils).

Piling is not generally considered to result in disturbed ground (BRE SD1 – Appendix A), therefore, any pyrite is unlikely to be oxidised. As such, consideration can be given to water soluble sulphate content of the clay (BRE SD1 – Box C8), which in this case would result in a DS-2 classification based on the results obtained.



## **7.0 ENVIRONMENTAL ASSESSMENT**

### **7.1 Introduction**

The soil and groundwater analysis results from the Delta-Simons Site Investigation have been assessed against the current Generic Assessment Criteria (GAC) in the context of a future commercial end-use.

### **7.2 Guidance for Analytical Results: Generic Assessment Criteria**

A risk assessment approach has been used for the assessment of the results. This process is defined as a tiered assessment considering the 'pollutant linkages' on the basis of a 'source-pathway-receptor' relationship. Analytical results have been assessed against Generic Assessment Criteria considered protective of Human Health and/or controlled waters in the context of the proposed redevelopment of the Site and the environmental setting of the Site.

#### **7.2.1 Human Health Soil Generic Assessment**

In the absence of a statutory set of GAC values, Delta-Simons will refer to the following derived using the Contaminated Land Exposure Assessment (CLEA) Framework:

- △ Soil Guidance Values (SGVs) published by the EA;
- △ Category 4 Screening Levels (C4SLs) published by Defra;
- △ Suitable for Use Levels for Human Health Risk Assessment (S4ULs) published by Land Quality Management (LQM)/Chartered Institute of Environmental Health (CIEH);
- △ The GAC produced by the Environmental Industries Commission (EIC), the Association of Geotechnical and Geo-Environmental Specialists (AGS) and Contaminated Land: Application in Real Environments (CL:AIRE) in December 2009; and;
- △ In house Generic Assessment Criteria (HH-GSVs) derived by Delta-Simons and other non UK values where considered relevant.

Delta-Simons Adopted Human Health Generic Assessment Criteria for a commercial end-use are presented in Appendix VI.

#### **7.2.2 Groundwater Generic Assessment**

The groundwater analysis results have been assessed against GAC based on the Freshwater Environmental Quality Standards (EQS) or UK Drinking Water Quality Standards (DWQS). In terms of the risks to controlled waters, groundwater contaminant concentrations that exceed the above water quality standards need to

be considered in the context of the Site's environmental setting as to whether further qualitative or quantitative assessment is required.

### 7.3 Soil Analytical Results

A summary of the soil analytical results compared to a commercial end-use is provided in Table 10 and copies of the soil analysis results are included as Appendix VII.

**Table 10 –Soil Sample Analysis Summary (mg/kg unless stated otherwise)**

Parameter	Maximum Concentration	Screening Value (Saturation limit)	Source	Samples Which Exceed Screening Value/Elevated Results	
				Location (Depth m bgl) = Concentration	Area of Site
<b>Heavy Metals</b>					
Arsenic	230	640	SGV/LQM	-	-
Barium	300	22000	EIC	-	-
Beryllium	4.3	12	LQM	-	-
Boron	5.6	240000	LQM	-	-
Cadmium	2.3	190	SGV/LQM	-	-
Chromium (Trivalent)	86	8600	LQM	-	-
Chromium (Hexavalent)	0	33	LQM	-	-
Copper	52	68000	LQM	-	-
Lead	220	2300	C4SL	-	-
Mercury	0.35	73	DS-GAC	-	-
Nickel	150	980	LQM	-	-
Selenium	0.50	12000	LQM	-	-
Vanadium	640	9000	LQM	-	-
Zinc	4900	730000	LQM	-	-
<b>Petroleum Hydrocarbons (Only concentrations identified above laboratory detections limits included in table)</b>					
Aliphatic TPH >C8-C10	2700	2000 (78)	LQM	DS107a (0.9-1)=2700	North-east
Aliphatic TPH >C10-C12	2600	9700 (48)	LQM	DS107a (0.9-1)=2600	North-east
Aliphatic TPH >C12-C16	56	59000 (24)	LQM	DS106 (0.2-0.3)=36 DS107a (0.9-1)=56	East North-east
Aliphatic TPH >C16-C21	170	1600000 (8.48)	LQM	DS106 (0.2-0.3)=17 DS107a (0.9-1)=170	East North-east
Aliphatic TPH >C21-C35	1200	1600000 (8.48)	LQM	DS107a (0.9-1)=1200	North-east
Aliphatic TPH >C35-C44	58	1600000 (8.48)	LQM	DS107a (0.9-1)=58	North-east
Aromatic TPH >C8-C10	8.7	3500 (613)	LQM	DS107a (0.9-1)=8.7	North-east
Aromatic TPH >C10-C12	750	16000 (364)	LQM	DS107a (0.9-1)=750	North-east
Aromatic TPH >C12-C16	79	36000 (169)	LQM	DS107a (0.9-1)=79	North-east
Aromatic TPH >C16-C21	390	28000	LQM	DS107a (0.9-1)=390	North-east
Aromatic TPH >C21-C35	2000	28000	LQM	DS107a (0.9-1)=2000	North-east
Aromatic TPH >C35-C44	280	28000	LQM	DS107a (0.9-1)=280	North-east
Total Petroleum Hydrocarbons	10000	N/A	N/A	DS107a (0.9-1)=10000 DS104 (0.2-0.3)=18 DS106 (0.2-0.3)=70	North-east, east

Parameter	Maximum Concentration	Screening Value (Saturation limit)	Source	Samples Which Exceed Screening Value/ Elevated Results	
				Location (Depth m bgl) = Concentration	Area of Site
<b>PAH, including PAH compounds within the SVOC suite</b>					
Naphthalene	2	190 (76.4)	LQM	-	-
Acenaphthylene	0.45	83000 (86.1)	LQM	-	-
Acenaphthene	1.1	84000 (57)	LQM	-	-
Fluorene	3	63000 (30.9)	LQM	-	-
Phenanthrene	9.3	22000 (36)	LQM	-	-
Anthracene	1.9	520000 (1.17)	LQM	BH106 (11)=1.9	Central/east
Fluoranthene	4.9	23000	LQM	-	-
Pyrene	3.2	54000	LQM	-	-
Benzo[a]anthracene	1.4	170	LQM	-	-
Chrysene	2.2	350	LQM	-	-
Benzo[b]fluoranthene	1.9	44	LQM	-	-
Benzo[k]fluoranthene	1.2	1200	LQM	-	-
Benzo[a]pyrene	0.82	35	LQM	-	-
Indeno(1,2,3-c,d)Pyrene	0.91	500	LQM	-	-
Dibenz(a,h)Anthracene	0.65	3.5	LQM	-	-
Benzo[g,h,i]perylene	1.2	3900	LQM	-	-
<b>Others</b>					
Asbestos Screen	N/A	N/A	N/A	Amosite fibres were identified in DS109 (2.2-2.5m bgl)	Central
pH	7.3-10.2	N/A	N/A	-	-
Sulphate (acid soluble %)	5.7	N/A	N/A	-	-
Sulphate (water soluble g/l)	1.6	N/A	N/A	-	-
Total Sulphur (%)	3.6	N/A	N/A	-	-
Cyanide (free mg/kg)	<0.50	N/A	N/A	-	-
Cyanide (total mg/kg)	16	N/A	N/A	BH102(11.0)=16 BH106 (11.0)=7.4 BH108 (8.0-8.45)=2.3 BH101(11.0-11.5)=0.6 BH103(7.5-8)=0.5	Across Site
Total Phenols	<0.5	440	LQM	-	-

Note: N/A = Generic screening value not available  
 Shaded = Concentrations exceed screening criteria or are considered significantly elevated  
 Shaded = Concentrations exceed saturation limit  
 SGV = DEFRA/EA Soil Guideline Value  
 LQM = LQM/CIEH Generic Assessment Criteria  
 DS-GAC = Delta-Simons' Generic Assessment Criteria

As shown in Table 10 the soil analysis results from the site investigation indicate that very limited contamination of the soils has been identified at the Site.

One sample from DS107 (0.9 to 0.1 m bgl) exceeded the GAC for Aliphatic >C8-C10 and the saturation limits for Aliphatic >C8-C10, >C10-C12, >C12-C16, >C16-C21, >C21-C35, >C35-C44 and Aromatic >C10-C12. Staining of the soil, a strong hydrocarbon odour and an elevated PID reading (631 ppm) was noted during the Site investigation at this location. The laboratory analytical results and field observations indicate potential separated phase contamination present at this location. Furthermore low concentrations of VOCs were encountered above detection in this location, primarily associated with BTEX benzene compounds.

One sample from DS106 (0.2 to 0.3 m bgl) exceeded the saturation limits for Aliphatic >C12-C16 and >C16-C21. Theoretically this could indicate potential separated phase contamination present at this location, however, on-Site olfactory and visual observations did not corroborate this within the underlying geology and it is considered likely the concentrations represent a solid phase material within the Made Ground.

One sample from BH106 (11 m bgl) marginally exceeded the saturation limit for Anthracene, however it was significantly below the GAC.

Asbestos (amosite lagging) was identified in one sample within the Made Ground at DS109 (2.2 to 2.5 m bgl).

The risk associated with the detectable concentrations of contaminants in soils to the identified receptors is further discussed in Section 8.2.

#### **7.4 Groundwater Analytical Results**

A total of nine groundwater samples were collected from the newly installed monitoring wells during one monitoring event. A summary of the groundwater analytical results is presented in Table 11 and copies of the groundwater analytical results are included in Appendix VIII.

**Table 11 –Groundwater Sample Analysis Summary (µg/l unless stated otherwise)**

Parameter	Maximum Concentration µg/l	Screening Value µg/l (Source)	Samples Which Exceed Screening Value/ Elevated Results	
			Location (Concentration)	Area of Site
<b>Heavy Metals (only those above laboratory detection)</b>				
Arsenic	4.5	10 <sup>DWQS</sup>	-	-
Boron	1200	1000 <sup>DWQS</sup>	R4	Central/Northern (deeper groundwater)

Parameter	Maximum Concentration µg/l	Screening Value µg/l (Source)	Samples Which Exceed Screening Value/ Elevated Results	
			Location (Concentration)	Area of Site
<b>Heavy Metals (only those above laboratory detection)</b>				
Cadmium (dissolved)	1.2	5 <sup>DWQS</sup>	-	-
Chromium	9.9	44.7 <sup>DWQS</sup>	-	-
Copper	1.5	2000 <sup>DWQS</sup>	-	-
Mercury	2	1 <sup>DWQS</sup>	R3, R4, R2, BH101, DS107, DS116	Across Site (both the shallow perched and deeper groundwater)
Nickel	6.3	20 <sup>DWQS</sup>	-	-
Lead	1.2	10 <sup>DWQS</sup>	-	-
Selenium	16	10 <sup>DWQS</sup>	R4	Central/Northern (deeper groundwater)
Zinc	40	50 <sup>DWQS</sup>	-	-
<b>Speciated Total Petroleum Hydrocarbons</b>				
All Below Level of Detection				
<b>sPAH</b>				
All Below Level of Detection				
<b>SVOC &amp; VOC</b>				
All Below Level of Detection				
<b>Phenols &amp; Cyanide</b>				
All Below Level of Detection				
<b>Others</b>				
pH	7.0-9.3	6 – 9 <sup>EQS</sup>	BH102 (pH 9.3)	West

Note:

- EQS = Freshwater Environmental Quality Standard
- DWQS = UK Drinking Water Quality Standards
- Shaded = Concentrations exceeding screening values

As shown in Table 11, groundwater results indicate only slightly elevated concentrations of boron and selenium, limited to the rotary borehole R4, situated in the central northern area of the Site. Slightly elevated concentrations of mercury were identified in six of the boreholes sampled.

These exceedance are not considered significant as the Site is not located within a Source Protection Zone, and there are no groundwater abstractions within 2 km of the Site. Marginal exceedances are likely to be representative of wider groundwater quality.

The risk associated with the detectable concentrations of contaminants in the groundwater to the identified receptors is further discussed in Section 8.2.

### **7.5 Ground Gas Monitoring**

Four rounds of ground gas monitoring were undertaken following the Site investigation. A collated summary of the results from the ground gas monitoring

exercise is presented in Table 12. A complete set of ground gas monitoring results are presented in Appendix III.

**Table 12 – Summary of Ground Gas Monitoring Data**

Monitoring Location	Methane (%v/v)	Carbon Dioxide (%v/v)	Flow Rate (l/hr)	GSV/CS
	Max	Max	Max	
R1	<0.1	2.7	0.2	0.052/CS2
R2	<0.1	4.9	0.2	
R3	<0.1	0.1	<0.1	
R4	<0.1	<0.1	<0.1	
BH101	<0.1	0.1	<0.1	
BH102	10.4	0.1	<0.1	
BH104	<0.1	0.1	<0.1	
BH106	<0.1	0.1	<0.1	
BH107	0.9	1.6	<0.1	
DS101	<0.1	0.3	<0.1	
DS104	<0.1	0.1	<0.1	
DS105	<0.1	0.4	<0.1	
DS107	<0.1	1.6	0.50	
DS107a	<0.1	0.6	0.2	
DS109	<0.1	0.8	0.1	
DS113	<0.1	0.7	<0.1	
DS114	<0.1	0.6	<0.1	
DS116	<0.1	0.5	0.2	
DS117	<0.1	1.0	<0.1	
DS118	<0.1	1.0	<0.1	

Note: GSV = Gas Screening Value  
 CS = Characteristic Situation (Range: 1 = Very low risk to 6 = Very high risk)

Low ground gas flow rates were recorded in the following boreholes: R1, R2, DS107, DS107a, DS109 and DS116. Methane was identified in BH102 and BH107, with peak concentrations of 10.4% v/v and 0.9% v/v respectively. Carbon Dioxide peak concentrations ranged from <0.1% v/v to 4.9% v/v (R2).

The monitoring undertaken to date indicates that the Site should be classified as a CS2 –Low Risk. Therefore based on the monitoring conducted to date, basic gas protection measures would be required to be incorporated into the development for the proposed works.

The ground gas monitoring results are considered further within Section 8.2 of this Report.

## **7.6 Waste Classification**

### **7.6.1 Regulatory Guidance**

The Waste Framework Directive (2008/98/EC) (WFD) sets out what waste is and how it should be managed. The WFD considers some wastes to be hazardous which is based upon one or more of the fifteen specified properties listed in Annex III to the WFD and the application of this is determined by the List of Wastes Decision (2000/532/EC) (LoWD). This LoWD provides:

- Δ A list of wastes (often still called the European Waste Catalogue);
- Δ Rules for using the list; and
- Δ Criteria used to assess if a waste on the list is hazardous.

The WFD and LoWD use the classification of product chemicals as the basis for the assessment of hazardous waste and are implemented in England, Northern Ireland, Scotland and Wales using different domestic regulations. There are two chemical directives that apply to hazardous waste assessment: the Dangerous Substances Directive (67/548/EC) DSD and the Dangerous Preparations Directive (1999/45/EC) (DPD) which are implemented in the UK by the Chemical (Hazard Information and Packaging for Supply) Regulations (CHIP). These are being replaced in stages by the Classification, Labelling and Packaging of Substances and Mixtures Regulation (CLP).

The key guidance document in relation to hazardous waste is: Technical Guidance WM3, Hazardous Waste: Interpretation of the definition and classification of hazardous waste (1st edition 2015). This document provides a common technical basis for applying the definition and classification of hazardous waste in the UK and with respect to oil related wastes supersedes and replaces SEPA's SWAN 04 guidance.

Hazardous waste classification presents certain challenges within the context of contaminated soils because classification relies upon the detailed knowledge of toxicological properties of specific substances as described in the Health and Safety Executive (HSE) document 'Approved Classification and Labelling Guide' (6th Edition) which refers to Table 3.2 Part 3 of Annex VI to the CLP Regulation Supply List' which defines a substance's specific properties. These are required to be displayed on product supply labels, Transport Emergency (TREM) cards and Material Safety Data Sheets (MSDS). Therefore, to completely profile waste soils the

advanced categorisation of specific substances would be required. However, this level of testing is not practicable and, for example, typical laboratory testing only provides cation concentrations for heavy metals rather than concentrations of specific heavy metal compounds. Therefore, a conservative approach is usually adopted utilising a suitable worst-case surrogate substance from Table 3.2 Part 3 of Annex VI to the CLP Regulation Supply List as a benchmark against the hazardous waste property threshold.

HazWasteOnline (HAZWOL) is a web-based tool for classifying hazardous waste. The software follows the latest EA guidance and European regulations and maintains a conservative approach for surrogate compounds (although it can be adapted to reflect additional knowledge/data). The HAZWOL tool will classify sample results as either hazardous or non-hazardous based upon the concentrations of contaminations present and the threshold levels for various hazardous properties.

Since the Landfill Directive was implemented into UK law, landfill sites have been divided into those accepting inert, non-hazardous and hazardous waste. Landfills may only accept waste of the same classification as the landfill, although some non-hazardous landfills with specially prepared engineered cells, can accept certain types of hazardous waste such as Stable Non-reactive Hazardous Waste (SNRHW).

Waste Acceptance Criteria (WAC) testing is used to determine the acceptance of waste at landfills, the tests do not provide waste classification to determine whether the waste is hazardous, non-hazardous or inert. There are specific WAC tests for inert and hazardous landfills. Materials classified as hazardous must meet the hazardous WAC before they are accepted in a hazardous landfill. If materials classified as non-hazardous meet the inert WAC they may be accepted in an inert landfill, if not, they may be accepted at a non-hazardous landfill. There are currently no non-hazardous WAC.

Landfill facilities may also have their own individual permit restrictions dictating the wastes acceptable at their premises. These permit restrictions are often only available following direct consultation with the landfill facility.

### **7.6.2 Analytical Review**

Analytical data from Made Ground soil samples collected from intrusive locations have been entered into the HWOL spreadsheets (a copy of which is included as



Appendix IX). In general the Made Ground Fill would likely be classified as Non-Hazardous for disposal purposes, with localised 'hotspots' of potentially hazardous soils associated with metals and cyanide, and a confirmed location of hazardous soils associated with hydrocarbons.

Consultation with landfill operators should be undertaken at an early stage to confirm their requirements with copies of the HWOL, solid chemical and WAC results submitted to them for their own classification purposes.

## **8.0 ASSESSMENT OF RISK AND CONCEPTUAL MODEL**

### **8.1 Risk Assessment**

The risk assessment procedure which identifies sources, pathways, receptors and pollutant linkages is, therefore, recognised as an appropriate approach to determining the extent and significance of contamination either within the context of Part 2A of the Environmental Protection Act 1990 (when assessing current Site status or when considering the acquisition of an existing development), or as part of the planning process (for the redevelopment of an existing Site, or when considering the acquisition of a Site for redevelopment purposes). In either context the 'suitable for use' approach is adopted in assessing the risks. As such, the source-pathway-receptor assessment defines a conceptual model for the Site under consideration.

### **8.2 Identified Sources of Contamination**

A CSM is presented overleaf and has been formulated taking into account all of the available data from the Delta-Simons intrusive investigation suitable for a Site with a proposed commercial end-use (gasification plant).

**Table 12 – Conceptual Site Model**

Source	Pathway	Receptor	Matrix Assessment	Justification / Additional Assessment
Identified concentrations of heavy metals within shallow Made Ground  Previously unidentified hotspots of contamination	Direct contact/ ingestion and inhalation of dust	Future Site users (occupiers and visitors)	<b>Low Risk</b>	Widespread elevated concentrations of contaminants have not been identified in soils across the Site (a hotspot of TPH contamination was identified in DS107a). The majority of the redevelopment will consist of hardstand surfacing, however, in any areas of soft landscaping proposed, a clean layer of imported topsoil will be required to break the pollutant linkage.
		Groundworkers during redevelopment and any future sub-surface works	<b>Low Risk</b>	Groundworkers and sub-surface maintenance workers should be made aware of the possibility of encountering contaminated soils through toolbox talks. Safe working procedures should be implemented, good standards of personal hygiene should be observed and appropriate levels of PPE provided and utilised. This recommendation should be captured in Site health and safety documentation and in maintenance plans.
	Windblown contaminated dust	Off-Site receptors	<b>Low Risk</b>	The potential for the generation of contaminated dust and the risk to off-Site receptors is considered to be low. However, in accordance with general good practice, the groundworks contractor will need to implement dust suppression techniques at the Site to limit the potential for the generation of dust.
	Leaching and migration through groundwater present beneath the Site	Controlled waters - Secondary A Aquifer	<b>Low Risk</b>	Elevated concentrations of boron, mercury and selenium have been identified within the groundwater, but are considered representative of wider groundwater quality, and as such not considered to represent a risk to the end Site use or its users.
	Direct infiltration in water supply pipes.	Drinking water supply pipes	<b>Low Risk</b>	Hydrocarbons, especially aromatics and chlorinated solvents, are known to permeate plastic pipes. Assessment of the risk to water pipes for any new supply will have to be undertaken as a requirement of the statutory undertakers who should be provided with a copy of this Site investigation Report and provide recommendations for upgrading of potable water supply pipes, if considered necessary.
Asbestos containing materials	Groundworkers and construction workers during redevelopment and future sub-surface maintenance and occupiers of adjacent properties during redevelopment	Inhalation of asbestos fibres	<b>Low Risk</b>	Asbestos fibres have been identified in one location (DS109).  Groundworkers should be made aware of the possibility of encountering potential Asbestos Containing Materials (ACM) within the Made Ground across the Site and an appropriate protocol should be in place. Safe working procedures should be implemented, including damping down of excavations and stockpiles in line with general dust generation mitigation and appropriate levels of PPE provided and utilised. This recommendation should be captured in Site health and safety documentation and in maintenance plans.

Potentially hazardous ground gas	Vertical & lateral migration and accumulation of gas in enclosed spaces and sub-floor voids	Construction / maintenance workers and Site users / visitors	<b>Low Risk</b>	Elevated concentrations of methane and carbon dioxide have been identified across the Site, however, flows are low and therefore it is considered that the ground gas regime at the Site is Characteristic Situation 2 – low risk, under which only basic ground gas protection measures are required.
Potentially unidentified 'hotspots' of contamination, which may be present in areas of the Site that have not been directly investigated	All receptors	All pathways	<b>Possible</b>	As with all redevelopment works, a 'hotspot' protocol should be in place for groundworkers to act upon during any future redevelopment of the Site.

## **9.0 ASSESSMENT OF RISKS AND LIABILITIES**

This assessment considers both perceived and actual risks using the source-pathway-receptor concept, with the principal measure of risk being whether significant harm (to people, animals, property (including buildings, etc.), or ecosystems) or pollution of controlled waters (surface water bodies, aquifers, coastal waters, or territorial waters) is being caused, or whether there is a significant possibility of such harm being caused with respect to statutory liability.

Risks and liabilities have been assessed both in terms of investment and development impacts.

The overall risk classification, based on the Source-pathway-receptor principle, adopted for this preliminary assessment, is defined as follows:

- △ Low risk – issue unlikely to present a liability or cost;
- △ Moderate risk – issue may present a liability or cost, but these may be limited;  
and
- △ High risk – likely that significant liabilities and/or costs exist.

### **9.1 Statement of Risk**

Based on the available information following the Phase II Investigation, Delta-Simons considers that in the context of a continuing commercial use of the Site, the following risk and liability statements can be made.

**Table 13 - Liability Assessment**

<b>Regulatory Body Enforcement (Part 2A or WRA)</b>	There is considered to be a <b>Low</b> risk of enforcement action under Part 2A or WRA.
<b>Third Party Liability</b>	Potential for legal action by surrounding landowners based on the potential for contamination to migrate off-Site is considered to be <b>Low</b> .
<b>Investment Impact</b>	Delta-Simons considers there to be a <b>Low</b> risk of impact on the commercial value of the Site in terms of investment from significant contamination issues.
<b>Development Impact</b>	Delta-Simons considers there to be a <b>Low</b> risk of impact associated with redevelopment of the Site with respect to significant contamination issues.
<b>Overall Statement of Risk</b>	On the basis of available information, Delta-Simons considers that with regard to potential soil and groundwater contamination issues and associated environmental liabilities, the Site represents an investment opportunity with a <b>Low</b> overall risk status.  In the context of a commercial redevelopment remediation would be limited to basic engineering measures and a specific remediation programme will not be needed.

## **10.0 CONCLUSIONS AND RECOMMENDATIONS**

### **10.1 General**

The Site investigation has been carried out in order to assess the contamination status of the soil and groundwater beneath the Site, and the geotechnical characteristics of the soil and rock. The assessment is being completed prior to the redevelopment of the Site for a commercial end use.

The chemical analysis undertaken on selected soil samples did not identify significantly elevated concentrations of contamination in the tested locations. A hotspot of TPH contamination was identified in DS107a, however, this is not considered to represent a material risk as the majority of the proposed redevelopment is understood to consist of hardstand surfacing. Asbestos (amosite lagging) was identified in one sample within the Made Ground at DS109 at depth. Groundwater chemical analysis results indicate only slightly elevated concentrations of boron and selenium, limited to the rotary borehole R4. Slightly elevated concentrations of mercury were identified in six of the boreholes sampled. These exceedances are not considered significant as the Site is not located within a Source Protection Zone, and there are no active groundwater abstractions within 2km of the Site. Marginal exceedances are likely to be representative of wider groundwater quality. Ground gas monitoring indicated low gas flow rates and slightly elevated concentrations of methane (maximum concentration of 10.4% v/v) and carbon dioxide (maximum concentration of 4.9% v/v) giving the Site a Characterisation Situation 2 (CS2 –Low Risk).

### **10.2 Environmental Recommendations**

Based on the information obtained to date the following information can be concluded:

- △ Significantly elevated concentrations of targeted contaminants above the respective assessment criteria which are considered to represent a risk in the context of the redevelopment have not been identified in soils and a specific remediation exercise is not considered to be required;
- △ It is recommended that a minimum 300 mm of certified suitable for use topsoil/subsoil should be incorporated into all new landscaped areas;

- △ Although good site coverage has been achieved, unidentified localised areas of contamination may exist at the Site and an appropriate 'hotspot' protocol should be in place should such contamination be identified during construction;
- △ Based on the ground gas monitoring conducted to date, basic gas protection measures would be required to be incorporated into the development for the proposed works;
- △ For materials removed from site to achieve cut and fill / for pile caps etc. shallow soils likely to be encountered should generally be considered as non-hazardous for disposal, with localised areas of potentially hazardous soils. Additional waste classification testing as part of the development process (including WAC testing) may be required to facilitate off-Site disposal of Made Ground materials once the specific materials to be removed are identified;
- △ As with all brownfield development sites, groundworkers who are required to perform sub-surface work at the Site should be made aware of the known contaminants in soil and groundwater and the possibility of encountering additional localised low levels of contamination. This should include information on the potential to encounter Asbestos Containing Materials (ACM). Safe working procedures should be implemented, including damping down of excavations and stockpiles in line with general dust generation mitigation and appropriate levels of PPE provided and utilised. This recommendation should be captured in Site health and safety documentation and in maintenance plans Suitable dust suppression techniques will need to be implemented during the redevelopment; and
- △ Given the history of the Site, it should be assumed that upgraded water pipe material will be required, albeit, confirmation should be sought from the Local Water Authority.

### **10.3 Summary of Geotechnical Recommendations**

On the basis of the information obtained and reviewed as part of this Assessment and the conclusions drawn above, Delta-Simons makes the following geotechnical recommendations:

- △ The Made Ground Fill material is considered to be too soft, variable, compressible and unpredictable in its existing condition for conventional shallow foundations at the Site given the expected large design loads;

- △ A piled foundation solution using bored piles transferring loads to competent bedrock geology encountered at depth is likely to be suitable for the expected design loads, predominantly utilising end bearing capacity due to the depth of Made Ground Fill, the ongoing settlement of which may induce negative skin friction. It would be recommended, once pile positions have been confirmed, that each location is predrilled to confirm depth to bedrock and ensure locations are clear of obstructions;
- △ It is not considered that ground improvement techniques would be appropriate for the expected design loads given the depth of Made Ground Fill encountered beneath the Site;
- △ Due to significant thickness of Made Ground, soils are considered too variable and unpredictable in its existing state for ground bearing floor slabs;
- △ In-situ DCP CBR tests have not been included within the scope of this investigation. In the absence of such tests, it is recommended that a conservative value of 2% be adopted for preliminary pavement design;
- △ The use of soakaways as a form of drainage is not recommended for the Site given the thickness and nature of the Made Ground encountered;
- △ All shallow foundation or services excavations at the Site should be considered unstable, therefore, temporary support of all excavations should be considered when excavating on-Site;
- △ The conditions of the soils at the Site would be classified as Design Sulphate Class DS-4 and ACEC Class AC-4 for soils and groundwater, when considering the most appropriate type of concrete to be used at the Site in order to resist chemical attack from elevated sulphate present in the soils for both shallow foundations and deeper piles. Piling is not generally considered to result in disturbed ground, therefore, any pyrite is unlikely to be oxidised. As such, consideration can be given to water soluble sulphate content of the clay, which in this case would result in a DS-2 classification based on the results obtained.

#### **10.4 Statement of Risk**

Based on the available information, Delta-Simons considers that in the context of a continuing commercial use of the Site, the risk and liabilities associated with third party, investment and development impacts to be low.



This Report was prepared by:



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Stacey Ragsdale  
**Environmental Scientist**

Date 9<sup>th</sup> December 2015

This Report was reviewed by:



---

Simon Steele  
**Projects Manager**

Date 9<sup>th</sup> December 2015

This Report was authorised by:

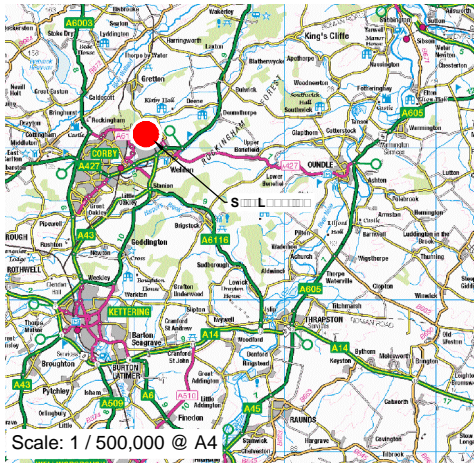


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Simon Brown  
**Commercial Director**

Date 9<sup>th</sup> December 2015





**LEGEND**

 Site Boundary



Scale: 1 / 10,000 @ A4

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TITLE:  
Site Location Map  
Shelton Road  
Corby

DRAWN BY:

DP

SCALE:  
To Scale @ A4

PROJECT NO:  
15-0645.02

CHECKED BY:

SR

REVISION:  
1

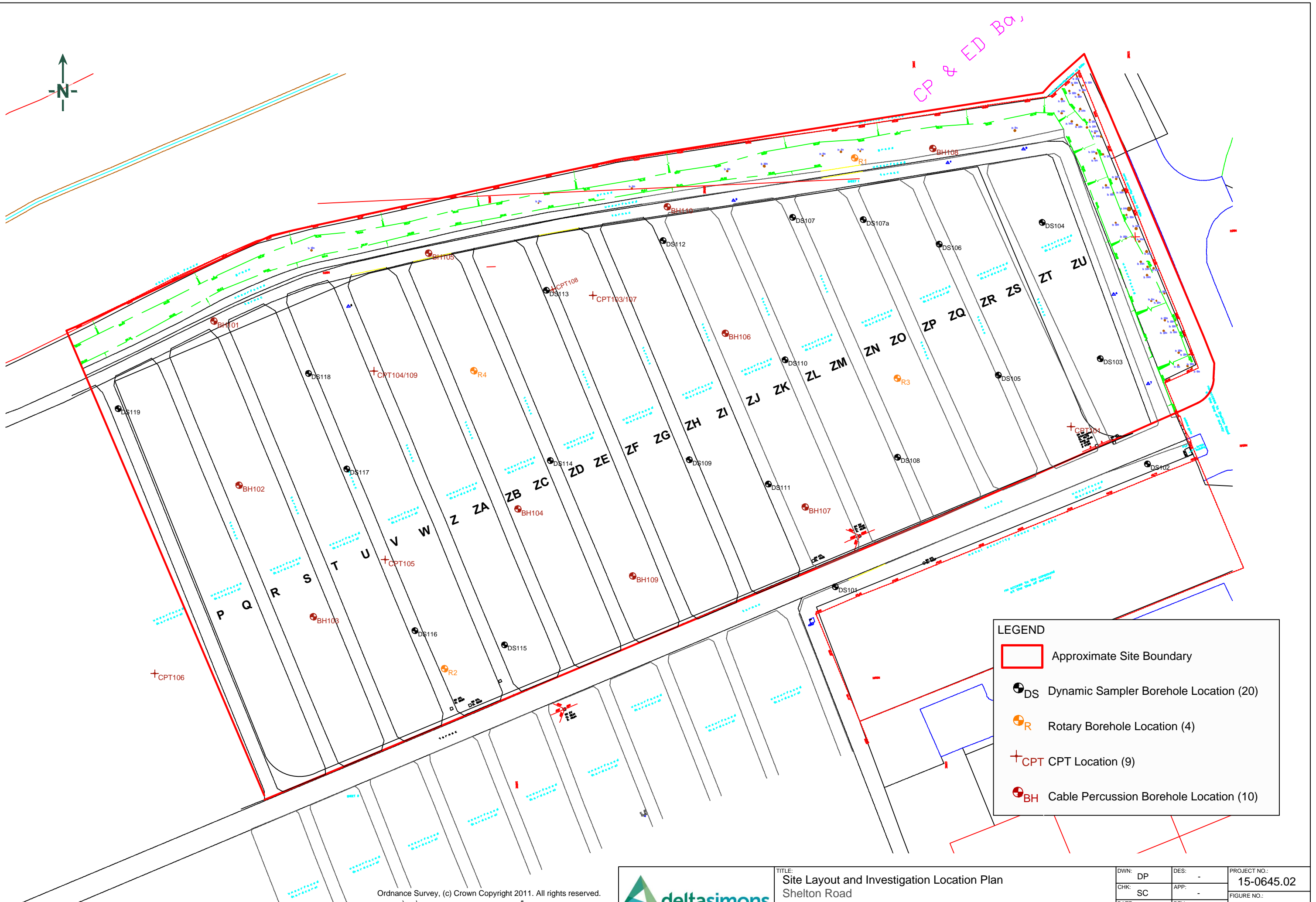
FIGURE NO:

DATE:

00 0000 0000 2015



CP & ED Ba



**LEGEND**

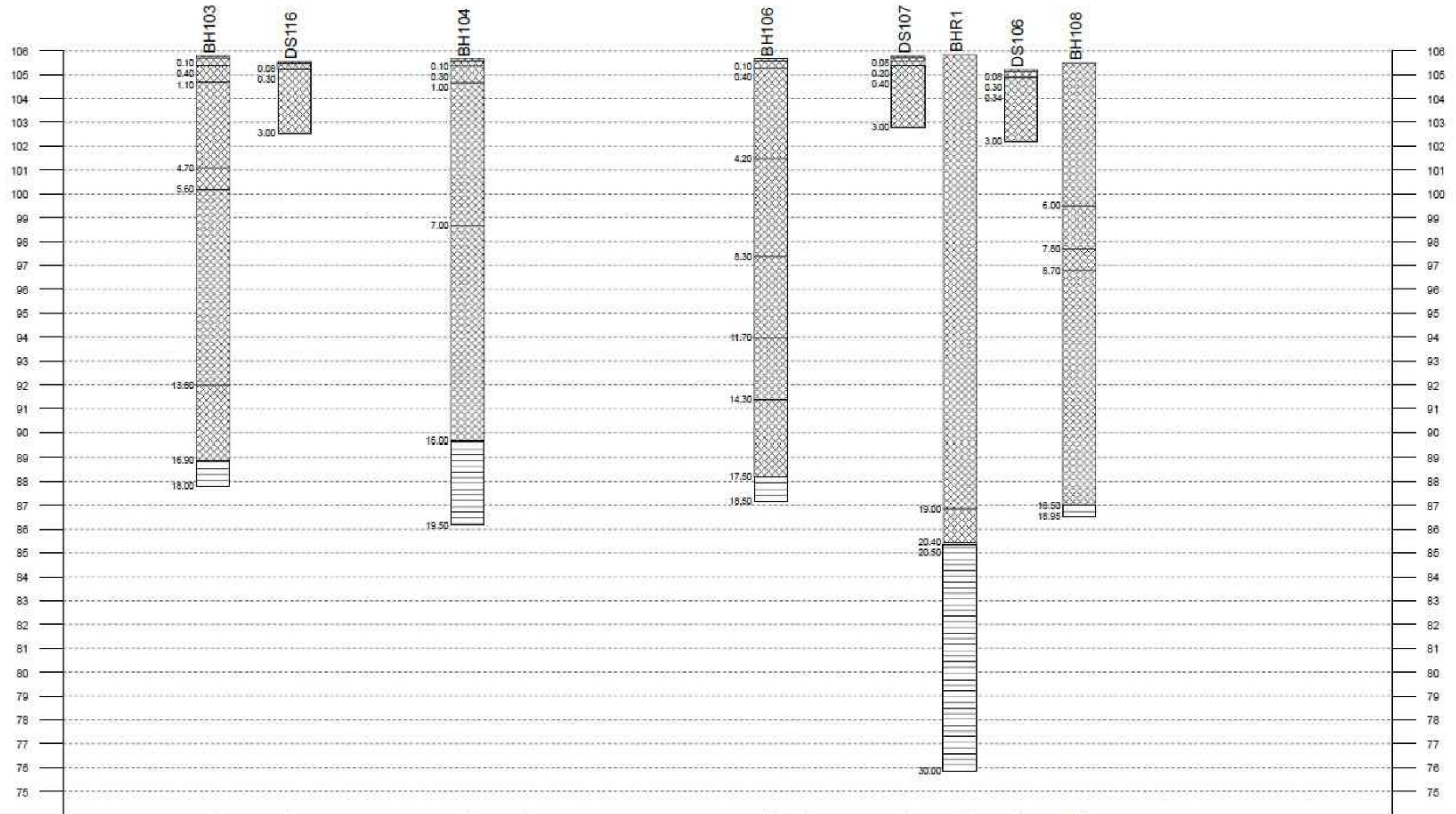
- Approximate Site Boundary
- DS Dynamic Sampler Borehole Location (20)
- R Rotary Borehole Location (4)
- CPT CPT Location (9)
- BH Cable Percussion Borehole Location (10)

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TITLE:  
Site Layout and Investigation Location Plan  
Shelton Road  
Corby

DWN: DP	DES: -	PROJECT NO.: 15-0645.02
CHK: SC	APP: -	FIGURE NO.: <input type="checkbox"/>
DATE: 01-01-2015	REV: 1	



**Legend Key**

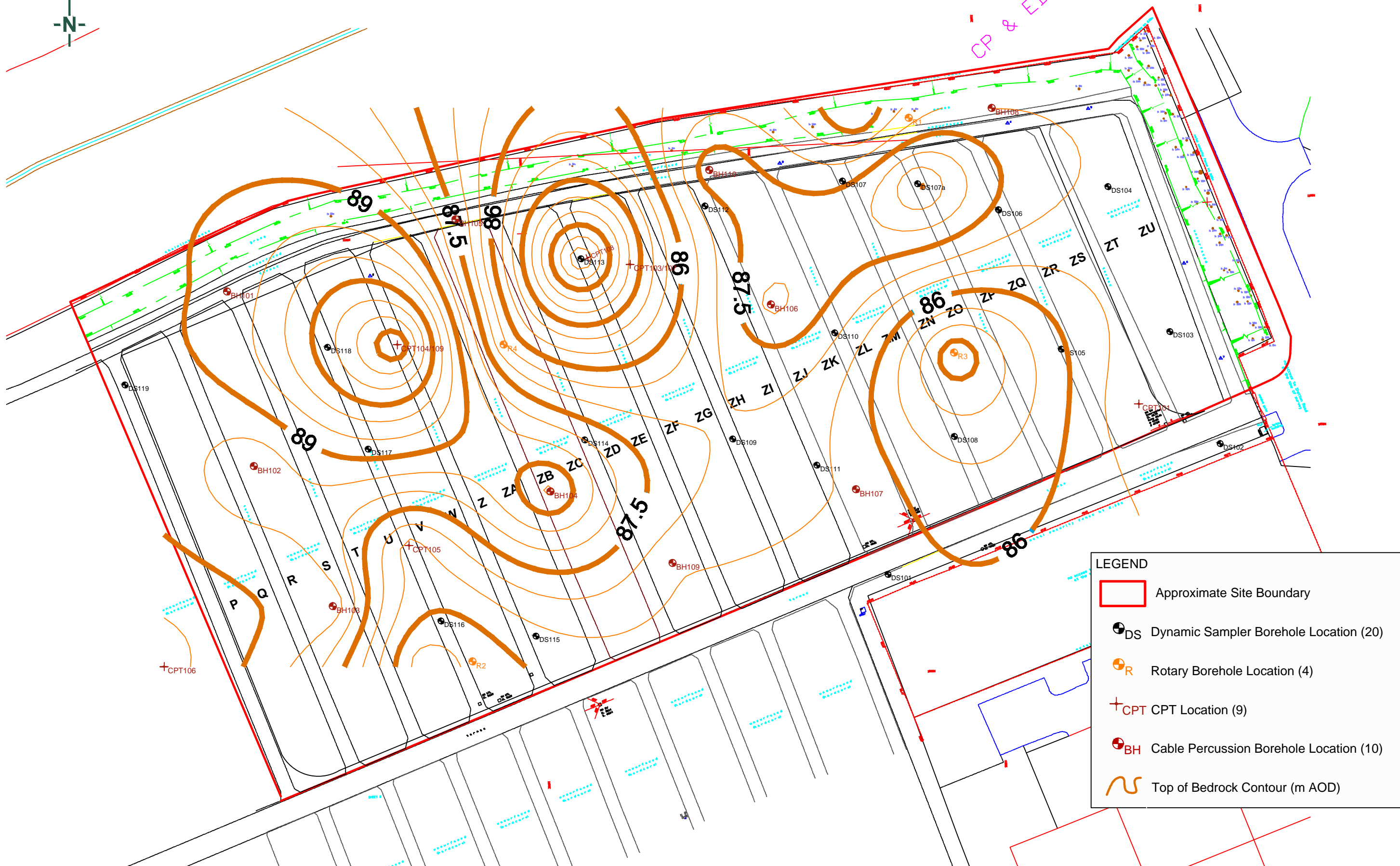
- MADE GROUND
- MUDSTONE
- SANDSTONE

74.00







Chainage (m)	0.06	17.10	53.40	64.57	116.78	124.26	145.59	156.44	169.25	182.06
Offset (m)	0.51	17.33	8.98	20.61	5.17	16.55	7.08	16.30	18.50	0.31
Elevation (mAOD)	105.78	105.55	105.66	106.28	105.67	105.36	105.78	105.83	105.21	105.49



CP & ED Body



**LEGEND**

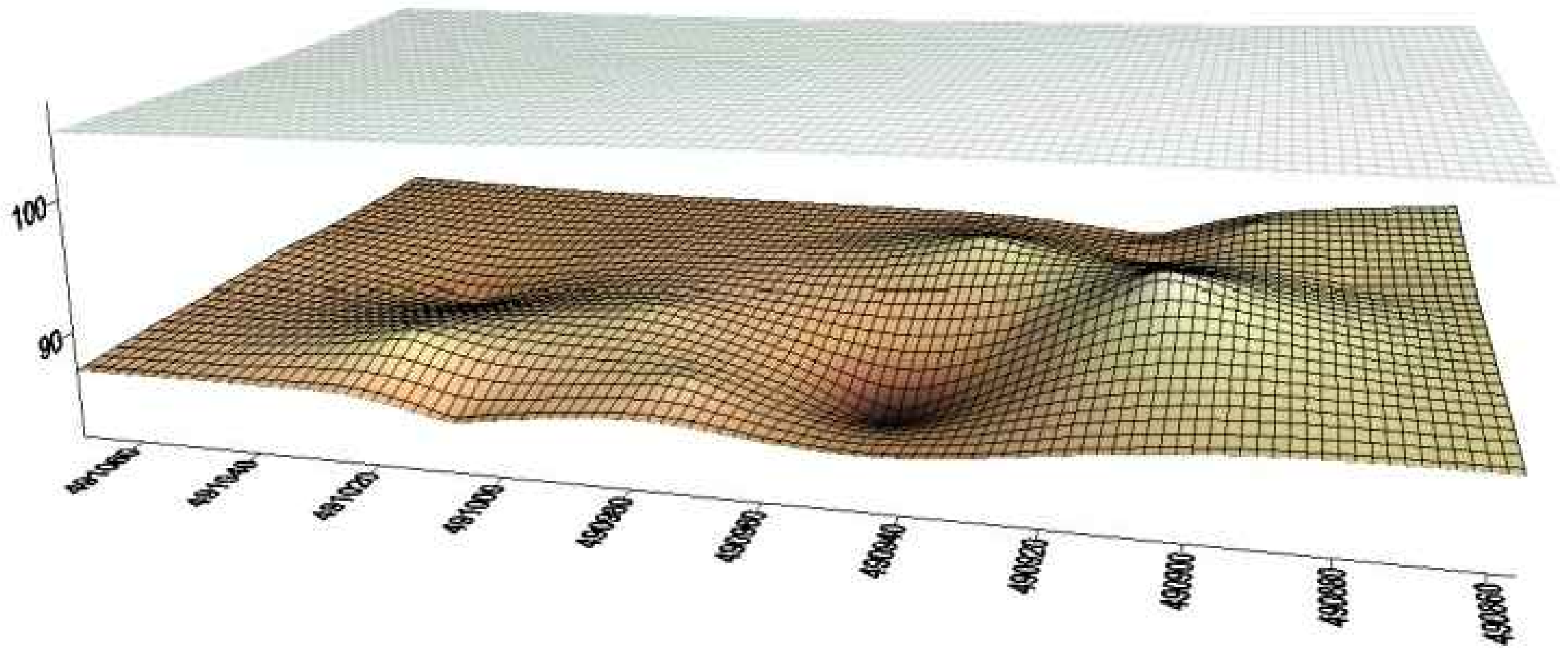
-  Approximate Site Boundary
-  Dynamic Sampler Borehole Location (20)
-  Rotary Borehole Location (4)
-  CPT Location (9)
-  Cable Percussion Borehole Location (10)
-  Top of Bedrock Contour (m AOD)

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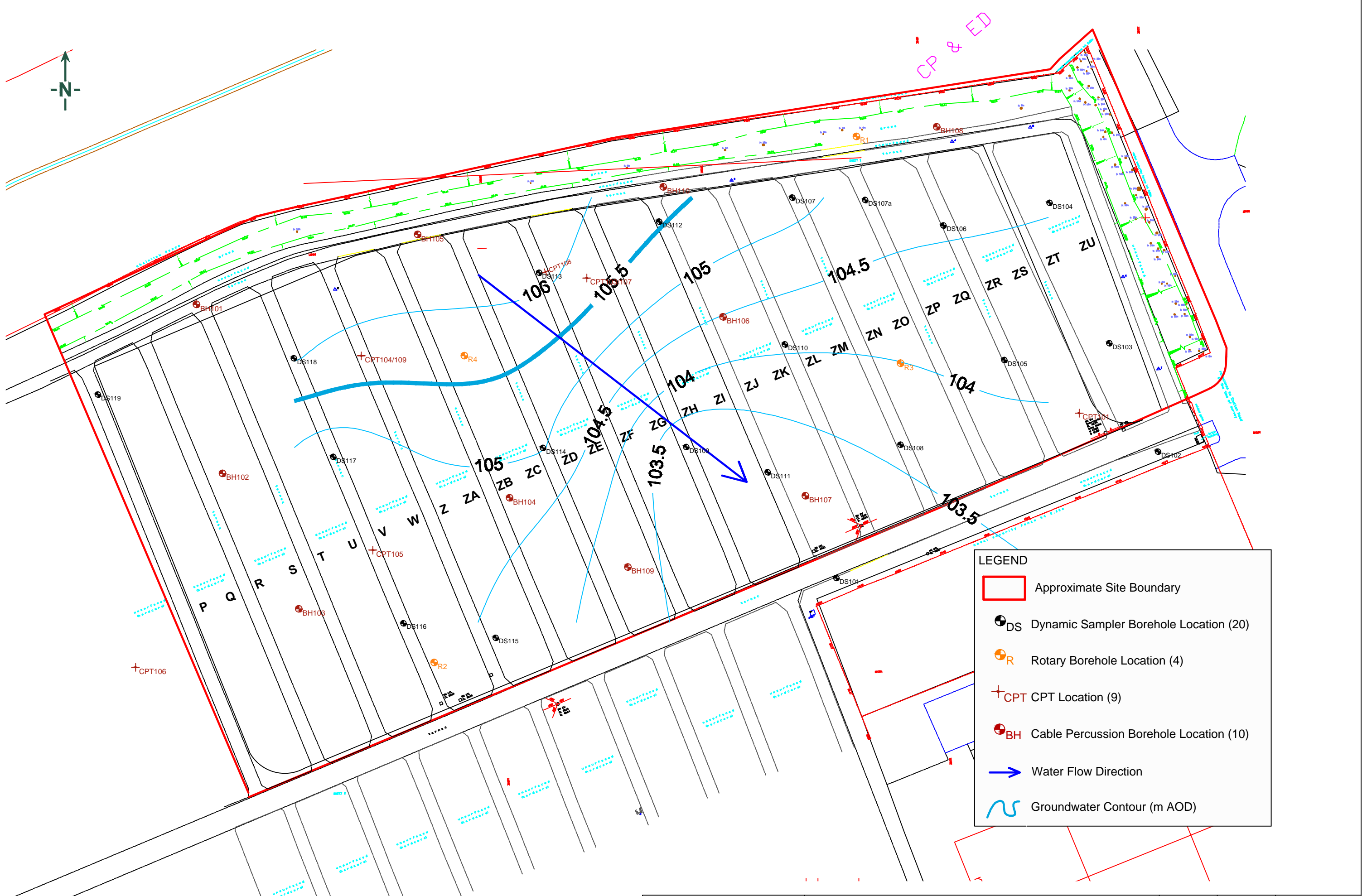
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Interpolated Top of Bedrock (2D)  
Shelton Road  
Corby

DWN: DP	DES: -	PROJECT NO.: 15-0645.02
CHK: SC	APP: -	FIGURE NO.:
DATE: 01-10-2015	REV: 1	<input type="checkbox"/>



TITLE:  
 Interpolated Top of Bedrock (3D)  
 Shelton Road  
 Corby

DWN: DP	DES: -	PROJECT NO.: 15-0645.02
CHK: SC	APP: -	FIGURE NO.: <input type="checkbox"/> b
DATE: 01-10-2015	REV: 1	



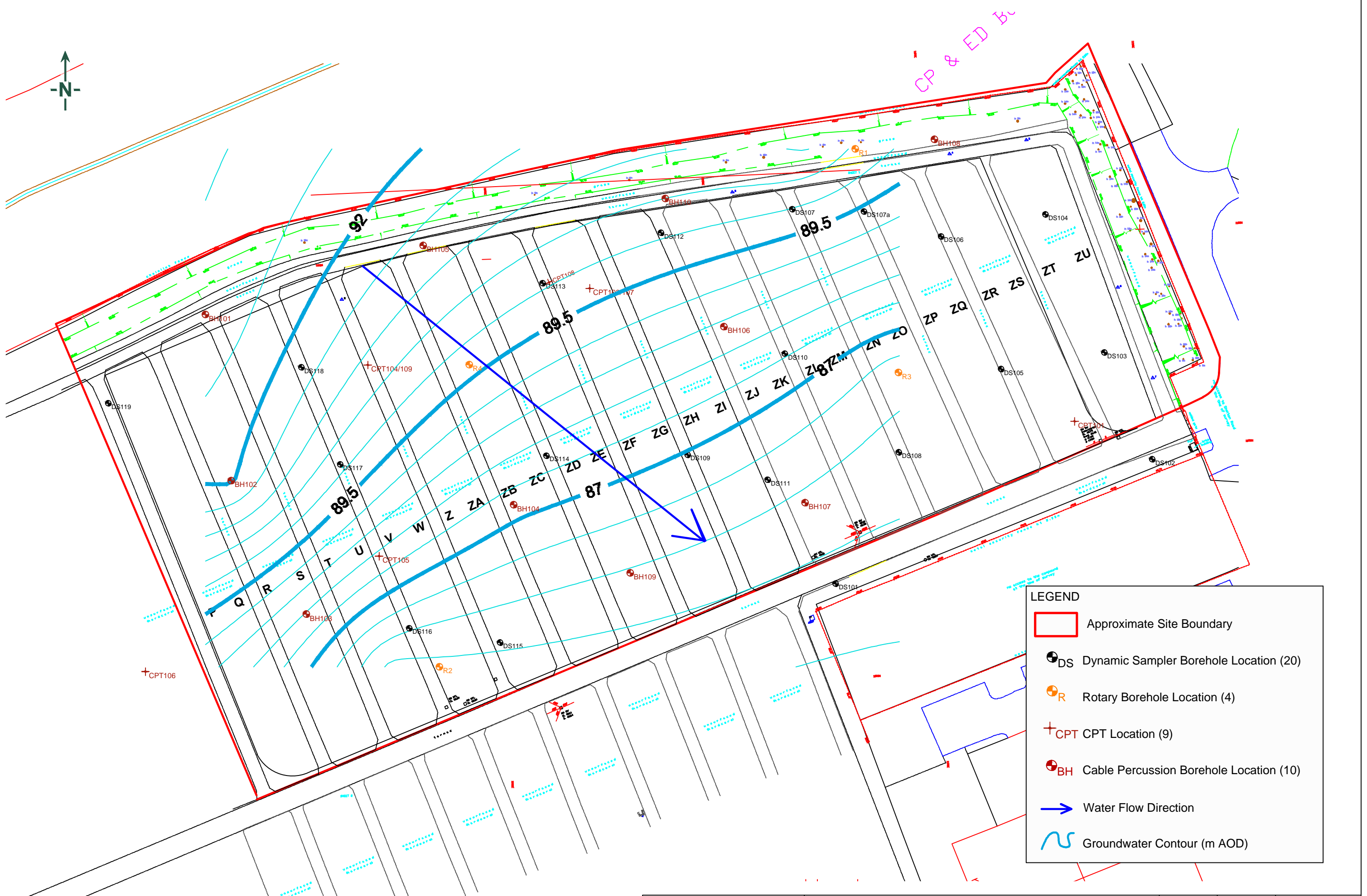
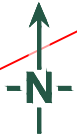
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TITLE:  
 Interpolated Groundwater Contour Plot (Perched Groundwater)  
 Shelton Road  
 Corby

DWN: DP	DES: -	PROJECT NO.: 15-0645.02
CHK: SC	APP: -	FIGURE NO.: 5
DATE: 01-10-2015	REV: 1	





**LEGEND**

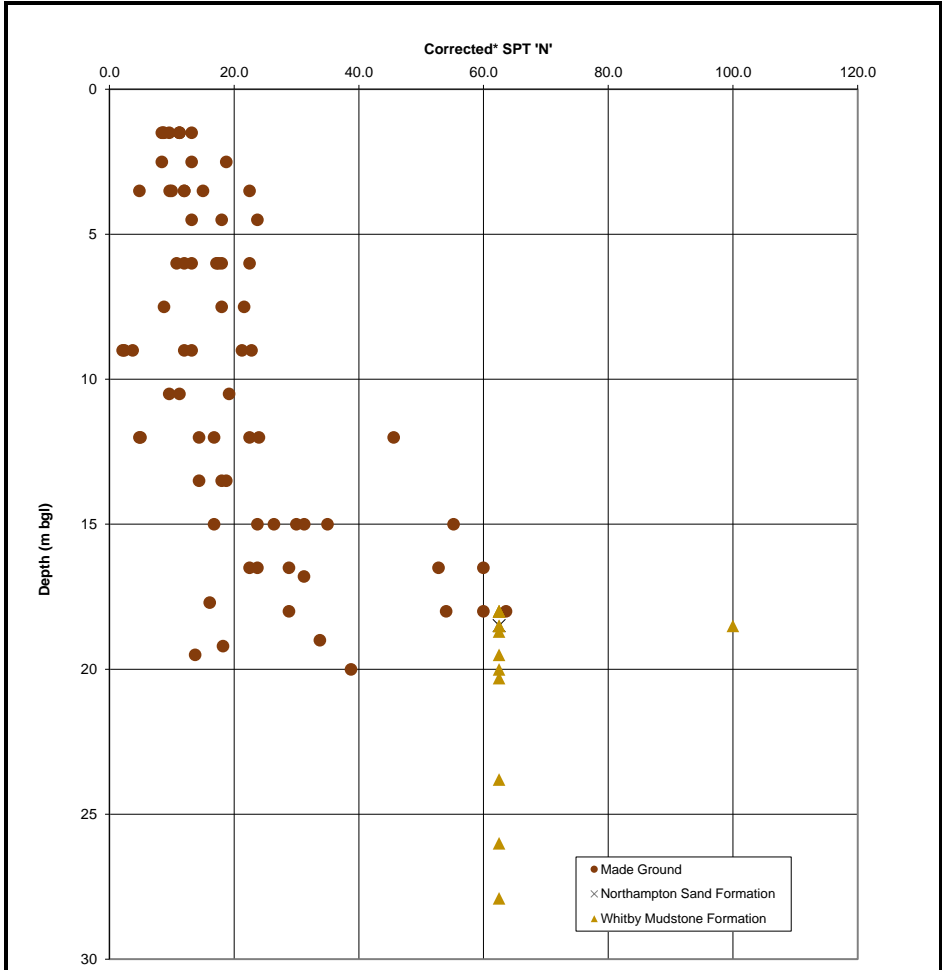
-  Approximate Site Boundary
-  Dynamic Sampler Borehole Location (20)
-  Rotary Borehole Location (4)
-  CPT Location (9)
-  Cable Percussion Borehole Location (10)
-  Water Flow Direction
-  Groundwater Contour (m AOD)

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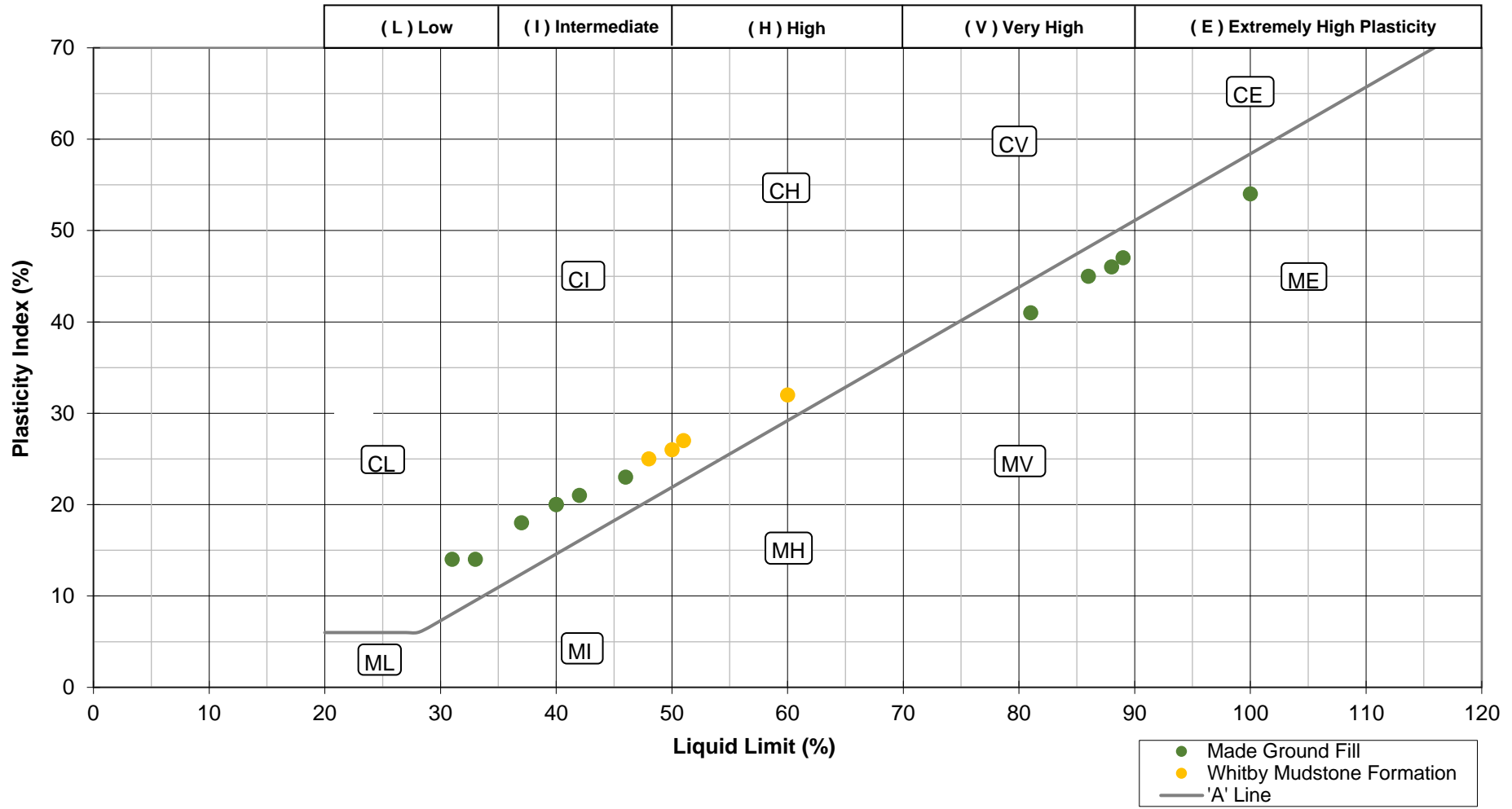
TITLE:  
Interpolated Groundwater Contour Plot (Deep Groundwater)  
Shelton Road  
Corby

DWN: DP	DES: -	PROJECT NO.: 15-0645.02
CHK: SC	APP: -	FIGURE NO.: 5b
DATE: 01-10-2015	REV: 1	



TITLE:  
 Corrected\* SPT, Depth and Strata Type  
 Shelton Road, Corby  
 \*corrected for SPT hammer energy ratio only

DWN:	SR	PROJECT NO.:	15-0645.02
DATE:	Oct-15	FIGURE NO.:	6



TITLE:

Plasticity Chart - All Soils  
Shelton Road, Corby

DWN:

SS

PROJECT NO.:

15-0645.02

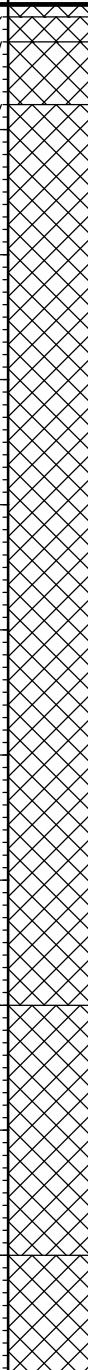
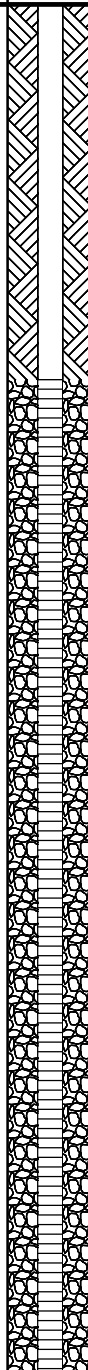
DATE:

Oct-15


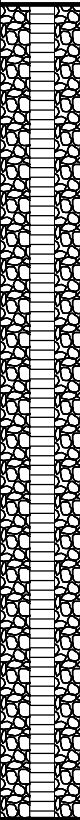





FIGURE NO.:

7



Description of Strata	Legend	Strata Depth Reduced Level (Thickness)	Casing Depth (Dia. mm)	Sample Details		Test Details		Backfill	
				Depth (m)	Type Ref	Depth (m)	Results		
MADE GROUND: Asphalt.		0.10 107.10	(150)	0.10	D 1				
MADE GROUND: Light brown slightly gravelly sand. Gravel is subangular to subrounded fine to medium sandstone.		0.30 106.90							
MADE GROUND: Soft dark grey and black, slightly sandy slightly gravelly silty clay with occasional plant material. (FILL)		(0.50)		0.80	D 2				
MADE GROUND: Soft to firm greenish brown and dark grey slightly sandy slightly gravelly silty clay. Gravel is subangular to rounded, fine to medium chalk. (FILL)		0.80 106.40		1.00-1.50	B B1				
				2.20	D 3		1.50-1.95		SPT(S) N=8 1,1,2,1,2,3
				2.50	U U1		2.50-2.95		U=25/450mm
				3.00	D 4				
				4.20	D 5		3.50-3.95		SPT(S) N=9 1,2,2,2,3,2
				4.50-4.95	U U2		4.50-4.95		U=12/135mm
				5.00	D 6				
				5.50	D 7				
		8.00 99.20			6.00-6.45	SPT(S) N=16 2,2,3,4,5,4			
MADE GROUND: Very soft dark grey and black silty clay, with occasional pockets of peat. (FILL)		(2.00)			7.00	D 8			
					7.50-7.95	U U3	U=36/450mm		
					8.00	D 9			
					8.00-8.50	B B2			
					9.00-9.45		SPT(S) N=2 1,0,0,0,1,1		
MADE GROUND: Firm to stiff brown and green slightly sandy very silty clay. Sand is fine to medium. (FILL)		10.00 97.20			10.00	D 10			
					10.50-10.95	U U4	U=35/450mm		
					11.00	D 11	PID=0.2ppm		

<b>Remarks</b> 1. Engineer verified logged in general accordance to BS 5930:2015. 2. Area CAT scanned prior to excavation. 3. Groundwater encountered to 17.50 m bgl. 4. Installed with a 63 mm HDPE standpipe to 17.50 m bgl. 5. Hand pit to 1.21 m bgl.	<b>Chiselling Details</b>		<b>Water Level Observations</b>				
	Depth (m)	Time	Date	Time	Water Strike (m)	Standing 20 (m)	Casing Depth (m)
	-					15.60	2.50
	<b>NO CHISELLING UNDERTAKEN</b>						
<b>Borehole Diameter</b>		<b>Casing Diameter</b>		<b>Depth Sealed</b>			
		150mm to 2.50m					
Coordinates (National Grid) / Level (mAOD): E:490870.036 N:290895.238 Level:107.198	Drilled By: SE Drilling	Plant Used: Dando 2000	Logged By: AC	Checked By: SS	Approved By: SS	Scale: 1:60	

Description of Strata	Legend	Strata Depth Reduced Level (Thickness)	Casing Depth (Dia. mm)	Sample Details		Test Details		Backfill		
				Depth (m)	Type Ref	Depth (m)	Results			
MADE GROUND: Firm to stiff brown and green slightly sandy very silty clay. Sand is fine to medium. (FILL)(BH Continued)		(6.00)		11.00-11.50	B B3					
						12.00-12.45			SPT(S) N=12 2,3/2,3,3,4	
						13.00	D 12			
						13.50-13.95	U U5		13.50-13.95	U=35/0mm
						14.00	D 13			
MADE GROUND: Orange and brown slightly clayey sand. (POSSIBLE FILL)		(2.10)				15.00-15.45	SPT(S) N=22 2,4/5,4,6,7			
						16.00	D 14			
						16.50-16.95	U U6		16.50-16.95	U=70/0mm
Extremely weak dark grey slightly weathered laminated MUDSTONE. (WHITBY MUDSTONE FORMATION)						16.80-17.00	B B4			
						17.50	D 15			
Borehole complete at 18.20 m bgl.						18.00-18.45	SPT(S) N=50 6,19/50,0,0,0			

**Remarks**

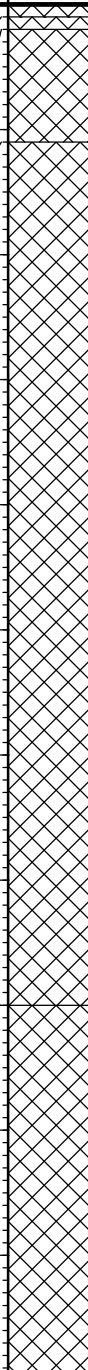
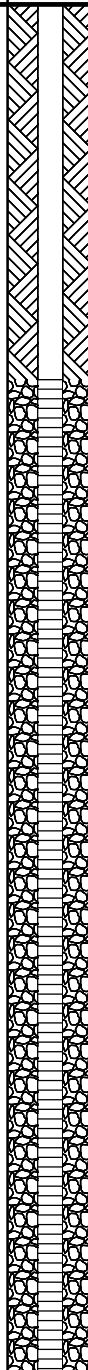
1. Engineer verified logged in general accordance to BS 5930:2015.
2. Area CAT scanned prior to excavation.
3. Groundwater encountered to 17.50 m bgl.
4. Installed with a 63 mm HDPE standpipe to 17.50 m bgl.
5. Hand pit to 1.21 m bgl.

**Chiselling Details**

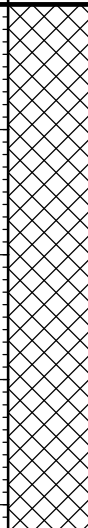

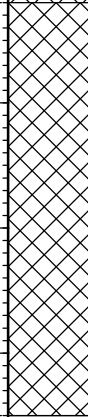



**Water Level Observations**

Depth (m)	Time	Date	Time	Water Strike (m)	Standing 20 (m)	Casing Depth (m)
<b>NO CHISELLING UNDERTAKEN</b>						
					15.60	2.50

Borehole Diameter	Casing Diameter	Depth Sealed
	150mm to 2.50m	

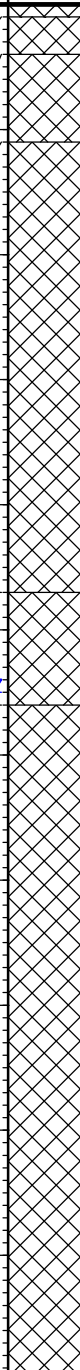

Description of Strata	Legend	Strata Depth Reduced Level (Thickness)	Casing Depth (Dia. mm)	Sample Details		Test Details		Backfill		
				Depth (m)	Type Ref	Depth (m)	Results			
MADE GROUND: Aggregate		0.10 106.44	(150)	0.20	D 1					
MADE GROUND: Light brown slightly gravelly sand. Gravel is subangular to subrounded fine to medium sandstone. (FILL)		0.20 106.34								
MADE GROUND: Firm to stiff greenish brown and dark grey slightly sandy slightly gravelly silty clay. Gravel is subangular to rounded, fine to medium chalk. (FILL)		(0.90)								
MADE GROUND: Very soft dark grey and black silty clay, with occasional pockets of peat. (FILL)		1.10 105.44		1.00	D 2	1.50-1.95	SPT(C) N=8 1,1,2,1,2,3			
				1.10	D 3					
				1.10-1.50	B B1					
						2.20	D 4			
						2.50	U U1		U=6/225mm	
						3.00	D 5			
									3.50-3.95	SPT(C) N=10 2,2,3,2,2,3
						4.20	D 6			
						4.50-5.00	B B2		U=10/0mm	
				4.50-4.95	U U2					
				5.50	D 7					
						6.00-6.45	SPT(S) N=15 2,2,4,3,4,4			
				7.00	D 8					
				7.50-7.95	U U3	U=20/180mm				
		8.00 98.54		8.00	D 9					
MADE GROUND: Firm to stiff brown and green slightly sandy very silty clay. Sand is fine to medium. (FILL)				8.50	D 10					
						9.00-9.45	SPT(S) N=2 0,1,0,0,1,1			
				10.00	D 11					
				10.50-11.00	D 12	U=10/0mm				
				10.50-10.95	U U4					

<b>Remarks</b> 1. Engineer verified logged in general accordance to BS 5930:2015. 2. Area CAT scanned prior to excavation. 3. Groundwater encountered to 17.50 m bgl. 4. Installed with a 63 mm HDPE standpipe to 17.50 m bgl. 5. Hand pit to 1.21 m bgl.	<b>Chiselling Details</b>		<b>Water Level Observations</b>				
	Depth (m)	Time	Date	Time	Water Strike (m)	Standing (m)	Casing Depth (m)
	18.50 - 18.70	00:00					
	<b>NO WATER ENCOUNTERED</b>						
<b>Borehole Diameter</b>		<b>Casing Diameter</b>		<b>Depth Sealed</b>			
		150mm to 2.50m					
Coordinates (National Grid) / Level (mAOD): E:490875.945 N:290856.916 Level:106.544	Drilled By: SE Drilling	Plant Used: Dando 2000	Logged By: AC	Checked By: SS	Approved By: SS	Scale: 1:60	

Description of Strata	Legend	Strata Depth Reduced Level (Thickness)	Casing Depth (Dia. mm)	Sample Details		Test Details		Backfill
				Depth (m)	Type Ref	Depth (m)	Results	
MADE GROUND: Firm to stiff brown and green slightly sandy very silty clay. Sand is fine to medium. (FILL)(BH Continued)		(7.20)		11.50	D 13			
				12.00-12.50	B B3	12.00-12.45	SPT(S) N=4 1,0,1,1,1,1	
				13.00	D 14			
				13.50-14.00	B B4	13.50-13.95	U=7/450mm	
				13.50-13.95	U U5			
				14.50	D 15			
MADE GROUND: Orange and brown slightly clayey sand, becoming gravelly from 18.00 m. (POSSIBLE FILL)		(3.30)		15.20	D 16	15.00-15.45	SPT(S) N=46 4,10,11,21,9,5	
				16.00-16.50	B B5			
				16.50-17.00	B B6	16.50-16.95	SPT(C) N=44 5,9,9,11,12,12	
				17.50	D 17			
				18.00-18.50	B B7	18.00-18.45	SPT(C) N=53 6,5,8,10,15,20	
				18.50	D 18			
Extremely weak dark grey slightly weathered laminated MUDSTONE. (WHITBY MUDSTONE FORMATION)		18.70 87.84		18.50 88.04		18.70-19.15	SPT(C) N=50/225mm (25/40mm,0/0mm/50,0,0,0/0mm)	
Borehole complete at 18.70 m bgl.								

<b>Remarks</b> 1. Engineer verified logged in general accordance to BS 5930:2015. 2. Area CAT scanned prior to excavation. 3. Groundwater encountered to 17.50 m bgl. 4. Installed with a 63 mm HDPE standpipe to 17.50 m bgl. 5. Hand pit to 1.21 m bgl.	<b>Chiselling Details</b>		<b>Water Level Observations</b>				
	Depth (m)	Time	Date	Time	Water Strike (m)	Standing (m)	Casing Depth (m)
	18.50 - 18.70	00:00					
	<b>NO WATER ENCOUNTERED</b>						
<b>Borehole Diameter</b>		<b>Casing Diameter</b>		<b>Depth Sealed</b>			
		150mm to 2.50m					
Coordinates (National Grid) / Level (mAOD): E:490875.945 N:290856.916 Level:106.544	Drilled By: SE Drilling	Plant Used: Dando 2000	Logged By: AC	Checked By: SS	Approved By: SS	Scale: 1:60	



Description of Strata	Legend	Strata Depth Reduced Level (Thickness)	Casing Depth (Dia. mm)	Sample Details		Test Details		Backfill		
				Depth (m)	Type Ref	Depth (m)	Results			
MADE GROUND: Aggregate		0.10 105.68	(150)	0.30	D 1	1.50-1.95	SPT(S) N=7 1,0,1,2,2,2			
MADE GROUND: Light brown slightly gravelly sand. Gravel is subangular to subrounded fine to medium sandstone.		0.40 105.38		0.50-1.00	B B1					
MADE GROUND: Firm to stiff greenish brown and dark grey slightly sandy slightly gravelly silty clay. Gravel is subangular to rounded, fine to medium chalk. (FILL)		(0.70)		1.00	D 2					
MADE GROUND: Firm to stiff orange brown and dark grey slightly sandy slightly gravelly silty clay. Gravel is subangular to rounded, fine to coarse sandstone. (FILL)		1.10 104.68		2.00	D 3					
		(3.60)		2.50-2.95	B B2 U U1				U=40/0mm	
				3.00	D 4					
				3.50-4.00	B B3				SPT(S) N=10 1,1,2,2,3,3	
				4.00	D 5					
				4.50-4.95	U U2				U=35/0mm	
MADE GROUND: Soft dark grey and black silty clay, with occasional pockets of peat. (FILL)		4.70 101.08		5.00	D 6					
		(0.90)		6.00	D 7				6.00-6.45	SPT(S) N=9 1,2,1,2,3,3
MADE GROUND: Firm to stiff brown and green slightly sandy very silty clay. Sand is fine to medium. (FILL)		5.60 100.18		7.00	D 8					
	(8.20)	7.50-8.00	B B4 U U3	7.50-21.00	U=0mm					
		8.00	D 9							
		9.00	D 10	9.00-9.45	SPT(S) N=11 2,2,2,2,4,3					
		10.00	D 11							
		10.50-11.00	B B5 U U4	10.50-10.95	U=100/0mm					
		11.00	D 12							

**Remarks**








1. Engineer verified logged in general accordance to BS 5930:2015.
2. Area CAT scanned prior to excavation.
3. Groundwater encountered to 17.50 m bgl.
4. Installed with a 63 mm HDPE standpipe to 17.50 m bgl.
5. Hand pit to 1.21 m bgl.

**Chiselling Details**

Depth (m)	Time	Date	Time	Water Strike (m)	Standing (m)	Casing Depth (m)
<b>NO CHISELLING UNDERTAKEN</b>						2.50

**Water Level Observations**

Borehole Diameter	Casing Diameter	Depth Sealed
	150mm to 7.50m	

Description of Strata	Legend	Strata Depth Reduced Level (Thickness)	Casing Depth (Dia. mm)	Sample Details		Test Details		Backfill
				Depth (m)	Type Ref	Depth (m)	Results	
MADE GROUND: Firm to stiff brown and green slightly sandy very silty clay. Sand is fine to medium. (FILL)(BH Continued)				12.00	D 13	12.00-12.45	SPT(S) N=20 3,3,4,4,5,7	
				13.00	D 14			
				13.50-13.95	U U5	13.50-13.95	U=0mm	
		13.80 91.98		14.00	D 15			
MADE GROUND: Orange and brown slightly clayey sand. (POSSIBLE FILL)				15.00	D 16	15.00-15.45	SPT(S) N=19 3,4,4,5,5,5	
		(3.10)		16.00	D 17			
				16.50-16.95	U U6	16.50-16.95	U=100/0mm	
		16.90 88.88		17.00	D 18			
Extremely weak dark grey slightly weathered laminated MUDSTONE. (WHITBY MUDSTONE FORMATION)				18.00	D 19	18.00-18.45	SPT(C) N=50 7,10,14,20,16,0	
		(1.10)						
Borehole complete at 18.00 m bgl.		18.00 87.78						

**Remarks**

1. Engineer verified logged in general accordance to BS 5930:2015.
2. Area CAT scanned prior to excavation.
3. Groundwater encountered to 17.50 m bgl.
4. Installed with a 63 mm HDPE standpipe to 17.50 m bgl.
5. Hand pit to 1.21 m bgl.

**Chiselling Details**

**Water Level Observations**

Depth (m)	Time	Date	Time	Water Strike (m)	Standing (m)	Casing Depth (m)
-						2.50
<b>NO CHISELLING UNDERTAKEN</b>						

**Borehole Diameter**

**Casing Diameter**

**Depth Sealed**

150mm to 7.50m

Coordinates (National Grid) / Level (mAOD):  
E:490893.272 N:290826.17 Level:105.782

Drilled By:  
SE Drilling

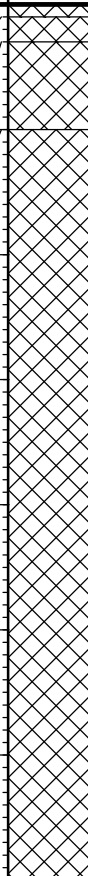
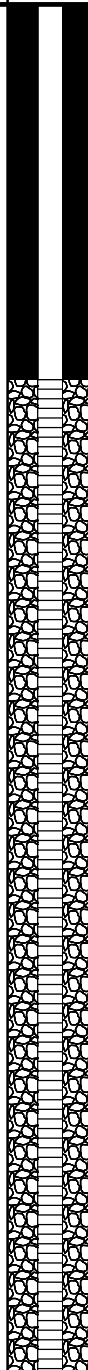
Plant Used:  
Dando 2000

Logged By:  
AC

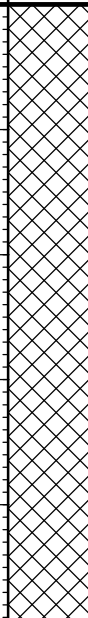


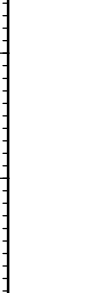
Checked By:  
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Approved By:  
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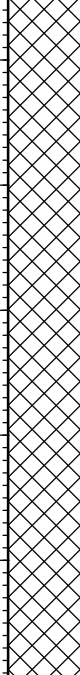
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Description of Strata	Legend	Strata Depth Reduced Level (Thickness)	Casing Depth (Dia. mm)	Sample Details		Test Details		Backfill	
				Depth (m)	Type Ref	Depth (m)	Results		
MADE GROUND: Aggregate		0.10 105.56 0.30 105.36	(150)	0.30	D 1				
MADE GROUND: Light brown slightly gravelly sand. Gravel is subangular to subrounded fine to medium sandstone. (FILL)		(0.70)		1.00 1.00-1.50	D 2 B B1				
MADE GROUND: Firm to stiff greenish brown and dark grey slightly sandy slightly gravelly silty clay. Gravel is subangular to rounded, fine to medium chalk. (FILL)		1.00 104.66					1.50-1.95		SPT(S) N=9 1,2,2,2,3,2
MADE GROUND: Soft dark grey and black silty clay, with occasional pockets of peat. (FILL)					2.20	D 3			
					2.50	U U1	2.50-2.95		U=16/225mm
					3.00	D 4			
				(6.00)			3.50-3.95		SPT(S) N=8 2,2,1,2,3,2
					4.20	D 5			
					4.50-4.95	D U2			
					5.00	D 6			
					5.50	D 7			
					6.00-6.45	SPT(S) N=14 2,2,3,4,3,4			
		7.00 98.66							
MADE GROUND: Firm to stiff brown and green slightly sandy very silty clay. Sand is fine to medium. (FILL)					7.00	D 8			
					7.50-7.95	U U3	U=/135mm		
					8.00	D 9			
					8.50	D 10			
					9.00-9.45	SPT(S) N=17 2,2,4,4,3,6			
					10.00	D 11			
				10.50-11.00 10.50-10.95	B B2 U U4	10.50-10.95	U=15/0mm		

<b>Remarks</b> 1. Engineer verified logged in general accordance to BS 5930:2015. 2. Area CAT scanned prior to excavation. 3. Groundwater encountered to 17.50 m bgl. 4. Installed with a 63 mm HDPE standpipe to 17.50 m bgl. 5. Hand pit to 1.21 m bgl.	<b>Chiselling Details</b>		<b>Water Level Observations</b>				
	Depth (m)	Time	Date	Time	Water Strike (m)	Standing (m)	Casing Depth (m)
	NO CHISELLING UNDERTAKEN		NO WATER ENCOUNTERED				
	<b>Borehole Diameter</b>		<b>Casing Diameter</b>		<b>Depth Sealed</b>		
		150mm to 2.50m					
Coordinates (National Grid) / Level (mAOD): E:490941.061 N:290851.362 Level:105.656	Drilled By: SE Drilling	Plant Used: Dando 2000	Logged By: AC	Checked By: SS	Approved By: SS	Scale: 1:60	

Description of Strata	Legend	Strata Depth Reduced Level (Thickness)	Casing Depth (Dia. mm)	Sample Details		Test Details		Backfill
				Depth (m)	Type Ref	Depth (m)	Results	
MADE GROUND: Firm to stiff brown and green slightly sandy very silty clay. Sand is fine to medium. (FILL)(BH Continued)		(9.00)		11.50	D 12	12.00-12.45	SPT(S) N=18 1,2,4,4,5,5	
				13.00	D 13			
				13.50-13.95	U U5	13.50-13.95	U=20/450mm	
				14.00	D 14			
				14.50	D 15			
				15.00-15.45		15.00-15.45	SPT(S) N=25 5,4,5,6,6,8	
Extremely weak dark grey slightly weathered laminated MUDSTONE. (WHITBY MUDSTONE FORMATION)		16.00 89.66		16.00	D 16			
				16.50-16.95	U U6	16.50-16.95	U=100/180mm	
				17.00	D 17			
				17.00-17.50	B B3			
Borehole complete at 19.50 m bgl.		(3.50)		18.00-18.45		18.00-18.45	SPT(S) N=50/295mm (11,11/12,12,14,12/70)	
				19.00-19.50	B B4			
		19.50 86.16		19.50-19.95		19.50-19.95	SPT(C) N=50/225mm (12,13/20mm/31,19,0,0mm)	

<b>Remarks</b> 1. Engineer verified logged in general accordance to BS 5930:2015. 2. Area CAT scanned prior to excavation. 3. Groundwater encountered to 17.50 m bgl. 4. Installed with a 63 mm HDPE standpipe to 17.50 m bgl. 5. Hand pit to 1.21 m bgl.	<b>Chiselling Details</b>		<b>Water Level Observations</b>				
	Depth (m)	Time	Date	Time	Water Strike (m)	Standing (m)	Casing Depth (m)
	NO CHISELLING UNDERTAKEN		NO WATER ENCOUNTERED				
	<b>Borehole Diameter</b>		<b>Casing Diameter</b>		<b>Depth Sealed</b>		
		150mm to 2.50m					
Coordinates (National Grid) / Level (mAOD): E:490941.061 N:290851.362 Level:105.656	Drilled By: SE Drilling	Plant Used: Dando 2000	Logged By: AC	Checked By: SS	Approved By: SS	Scale: 1:60	

Description of Strata	Legend	Strata Depth Reduced Level (Thickness)	Casing Depth (Dia. mm)	Sample Details		Test Details		Backfill
				Depth (m)	Type Ref	Depth (m)	Results	
MADE GROUND: Asphalt.		0.20 106.72	(150)	0.20	D 1			
MADE GROUND: Light brown slightly gravelly sand. Gravel is subangular to subrounded fine to medium sandstone.		0.40 106.52		0.50-1.00	B B1			
MADE GROUND: Firm to stiff greenish brown and dark grey slightly sandy slightly gravelly silty clay. Gravel is subangular to rounded, fine to medium chalk. (FILL)		1.00		D 2				
		1.50-1.95		U U1	1.50-1.95	U=45/450mm		
		2.00		D 3				
		2.50			2.50-2.95	SPT(S) N=11 1,2/3,3,2,3		
		(5.10)		3.00	D 4			
		3.50-3.95		U U2	3.50-3.95	U=30/450mm		
		4.00		D 5				
		4.50-4.95			4.50-4.95	SPT(S) N=11 2,2/3,2,3,3		
		5.00		D 6				
		5.50 101.42						
MADE GROUND: Soft dark grey and black silty clay, with occasional pockets of peat. (FILL)				(6.20)	6.00	D 7	6.00-6.45	
	6.00-6.45		U U3					
	6.50		D 8					
	7.00		D 9					
	7.50-7.95				7.50-7.95	SPT(S) N=18 3,4/4,4,5,5		
	8.00		D 10					
	9.00		D 11		9.00-9.45	U=33/0mm		
9.00-9.50	B B2							
9.00-9.45	U U4							
		10.00	D 12					
				10.50-10.95	SPT(S) N=8 2,2/2,1,2,3			
				11.00	D 13			

**Remarks**

1. Engineer verified logged in general accordance to BS 5930:2015.
2. Area CAT scanned prior to excavation.
3. Groundwater encountered to 17.50 m bgl.
4. Installed with a 63 mm HDPE standpipe to 17.50 m bgl.
5. Hand pit to 1.21 m bgl.

**Chiselling Details**

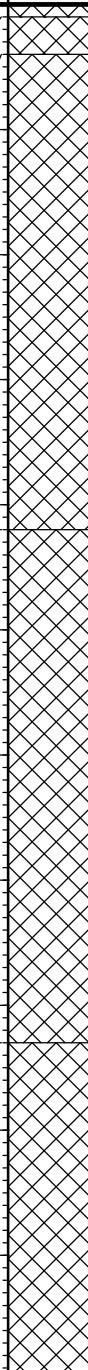
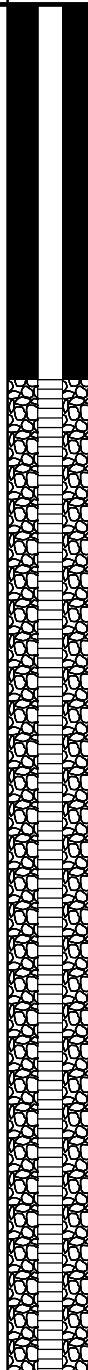
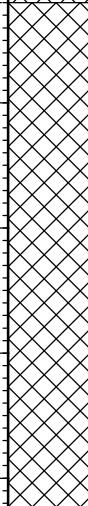
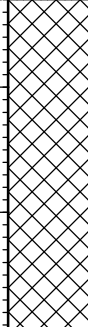
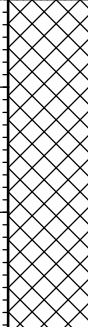
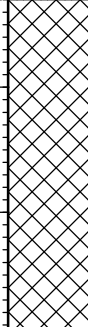
Depth (m)	Time	Date	Time	Water Strike (m)	Standing (m)	Casing Depth (m)
NO CHISELLING UNDERTAKEN						
NO WATER ENCOUNTERED						

**Water Level Observations**



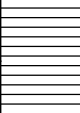
Borehole Diameter	Casing Diameter	Depth Sealed
	150mm to 2.50m	

Description of Strata	Legend	Strata Depth Reduced Level (Thickness)	Casing Depth (Dia. mm)	Sample Details		Test Details		Backfill
				Depth (m)	Type Ref	Depth (m)	Results	
MADE GROUND: Soft dark grey and black silty clay, with occasional pockets of peat. (FILL)(BH Continued)		11.70 95.22						
MADE GROUND: Firm to stiff greenish brown and dark grey slightly sandy slightly gravelly silty clay. Gravel is subangular to rounded, fine to medium chalk. (FILL)		(4.30)		12.00	D 14	12.00-12.45	U=55/450mm	
				12.00-12.45	U U5			
				12.50	D 15			
				13.00	D 16			
				14.00	D 17			
				15.00	D 18			
MADE GROUND: Orange brown slightly silty sandy gravel. Gravel is sub angular to rounded fine to coarse sandstone. (FILL)		(3.40)		15.00-15.25	U U6	15.00-15.25	U=100/125mm	
				15.30	D 19			
				16.00	D 20			
				16.50-16.95				
Extremely weak dark grey slightly weathered laminated MUDSTONE. (WHITBY MUDSTONE FORMATION)		(0.60)		16.80-17.25		16.80-17.25	SPT(C) N=15 3.2/3.4.4.4	
Borehole complete at 20.00 m bgl.		20.00 86.92		18.00	D 21	18.00-18.45	SPT(C) N=45 6.8/9.9,11,16	
				19.00	D 22			
				19.00	D 22	19.00-19.45	SPT(C) N=27 4.5/5.6.8.8	
				20.00	D 23	20.00-20.45	SPT(S) N=50/275mm (7,7/8,13,17,12/50mm)	

<b>Remarks</b> 1. Engineer verified logged in general accordance to BS 5930:2015. 2. Area CAT scanned prior to excavation. 3. Groundwater encountered to 17.50 m bgl. 4. Installed with a 63 mm HDPE standpipe to 17.50 m bgl. 5. Hand pit to 1.21 m bgl.	<b>Chiselling Details</b>		<b>Water Level Observations</b>				
	Depth (m)	Time	Date	Time	Water Strike (m)	Standing (m)	Casing Depth (m)
	NO CHISELLING UNDERTAKEN		NO WATER ENCOUNTERED				
	<b>Borehole Diameter</b>		<b>Casing Diameter</b>		<b>Depth Sealed</b>		
			150mm to 2.50m				
Coordinates (National Grid) / Level (mAOD): E:490920.21 N:290911.094 Level:106.924	Drilled By: SE Drilling	Plant Used: Dando 2000	Logged By: AC	Checked By: SS	Approved By: SS	Scale: 1:60	



Description of Strata	Legend	Strata Depth Reduced Level (Thickness)	Casing Depth (Dia. mm)	Sample Details		Test Details		Backfill		
				Depth (m)	Type Ref	Depth (m)	Results			
MADE GROUND: Asphalt.		0.10 105.57	(150)	0.10	D 1					
MADE GROUND: Light brown slightly gravelly sand. Gravel is subangular to subrounded fine to medium sandstone.		0.40 105.27		0.50	D 2					
MADE GROUND: Firm to stiff greenish brown and dark grey slightly sandy slightly gravelly silty clay. Gravel is subangular to rounded, fine to medium chalk. (FILL)		1.00		D 3						
		1.00-1.50		B B1						
		1.50-2.00		B B2	1.50-1.95	SPT(C) N=9 1,1,2,2,2,3				
		2.20		D 4						
(3.80)		2.50		2.50-2.95	U U1	2.50-2.95	U=17/270mm			
		3.00		D 5						
		3.50-3.95				3.50-3.95	SPT(S) N=12 2,1,2,3,3,4			
		4.20 101.47		4.20	D 6					
MADE GROUND: Firm to stiff orange brown and dark grey slightly sandy slightly gravelly silty clay. Gravel is subangular to rounded, fine to coarse sandstone. (FILL)				(4.10)	4.50-5.00	B B3	4.50-4.95		U=27/0mm	
					4.50-4.95	U U2				
	5.50		D 7							
	6.00-6.45					6.00-6.45	SPT(S) N=18 2,3,3,4,5,6			
MADE GROUND: Soft dark grey and black silty clay, with occasional pockets of peat. (FILL)		(3.40)	7.00	D 8						
			7.50-7.95	U U3	7.50-7.95	U=40/450mm				
			8.00	D 9						
			8.30 97.37	8.30	D 10					
MADE GROUND: Soft dark grey and black silty clay, with occasional pockets of peat. (FILL)		(3.40)	8.50	B B4						
			9.00-9.45			9.00-9.45	SPT(S) N=3 1,0,1,0,1,1			
			10.00	D 11						
MADE GROUND: Soft dark grey and black silty clay, with occasional pockets of peat. (FILL)		(3.40)	10.50-10.95	U U4	10.50-10.95	U=7/450mm				
			11.00	D 12						

<b>Remarks</b> 1. Engineer verified logged in general accordance to BS 5930:2015. 2. Area CAT scanned prior to excavation. 3. Groundwater encountered to 17.50 m bgl. 4. Installed with a 63 mm HDPE standpipe to 17.50 m bgl. 5. Hand pit to 1.21 m bgl.	<b>Chiselling Details</b>		<b>Water Level Observations</b>				
	Depth (m)	Time	Date	Time	Water Strike (m)	Standing (m)	Casing Depth (m)
	NO CHISELLING UNDERTAKEN		NO WATER ENCOUNTERED				
	<b>Borehole Diameter</b>		<b>Casing Diameter</b>		<b>Depth Sealed</b>		
			150mm to 2.50m				
Coordinates (National Grid) / Level (mAOD): E:490989.514 N:290892.399 Level:105.671	Drilled By: SE Drilling	Plant Used: Dando 2000	Logged By: AC	Checked By: SS	Approved By: SS	Scale: 1:60	

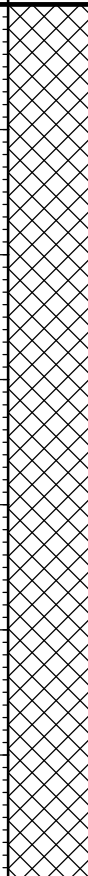


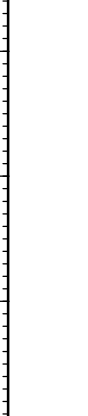
Description of Strata	Legend	Strata Depth Reduced Level (Thickness)	Casing Depth (Dia. mm)	Sample Details		Test Details		Backfill	
				Depth (m)	Type Ref	Depth (m)	Results		
MADE GROUND: Soft dark grey and black silty clay, with occasional pockets of peat. (FILL)(BH Continued)		11.70 93.97		11.50	D 13				
MADE GROUND: Dark grey black slightly clayey silt. (FILL)		(2.60)		13.00	D 14	12.00-12.45	SPT(S) N=4 1,1,1,1,1,1		
				13.50-13.95	U U5	13.50-13.95	U=7/450mm		
				14.00	D 15				
MADE GROUND: Soft dark grey and brown slightly sandy slightly gravelly silty clay with occasional cobbles. Gravel is subangular to rounded, fine to medium chalk and sandstone. (FILL)			14.30 91.37		14.50	D 16			
			(3.20)			15.00-15.45	SPT(S) N=28 6,6,6,7,7,8		
						16.50-16.95	SPT(S) N=18 3,4,3,4,5,6		
			17.50 88.17		17.50	D 17			
Extremely weak dark grey slightly weathered laminated MUDSTONE. (WHITBY MUDSTONE FORMATION)			(1.00)		18.00	B B5	18.00-18.45		SPT(C) N=50/235mm (5,8/11,15,20,4/10mm)
				18.50 87.17		18.30	D 18		18.50-18.95

<b>Remarks</b> 1. Engineer verified logged in general accordance to BS 5930:2015. 2. Area CAT scanned prior to excavation. 3. Groundwater encountered to 17.50 m bgl. 4. Installed with a 63 mm HDPE standpipe to 17.50 m bgl. 5. Hand pit to 1.21 m bgl.	<b>Chiselling Details</b>		<b>Water Level Observations</b>				
	Depth (m)	Time	Date	Time	Water Strike (m)	Standing (m)	Casing Depth (m)
	NO CHISELLING UNDERTAKEN		NO WATER ENCOUNTERED				
	<b>Borehole Diameter</b>		<b>Casing Diameter</b>		<b>Depth Sealed</b>		
		150mm to 2.50m					
Coordinates (National Grid) / Level (mAOD): E:490989.514 N:290892.399 Level:105.671	Drilled By: SE Drilling	Plant Used: Dando 2000	Logged By: AC	Checked By: SS	Approved By: SS	Scale: 1:60	



Description of Strata	Legend	Strata Depth Reduced Level (Thickness)	Casing Depth (Dia. mm)	Sample Details		Test Details		Backfill		
				Depth (m)	Type Ref	Depth (m)	Results			
MADE GROUND: Aggregate		0.10 104.33	(150)	0.30	D 1					
MADE GROUND: Light brown slightly gravelly sand. Gravel is subangular to subrounded fine to medium sandstone. (FILL)		0.40 104.03		0.90	D 2					
MADE GROUND: Soft to firm greenish brown and dark grey slightly sandy slightly gravelly silty clay. Gravel is subangular to rounded, fine to medium chalk. (FILL)		(1.80)		1.00-1.50	B B1	1.50-1.95	SPT(S) N=9 1,1/2,2,2,3			
MADE GROUND: Firm to stiff orange brown and dark grey slightly sandy slightly gravelly silty clay. Gravel is subangular to rounded, fine to coarse sandstone. (FILL)		2.20 102.23		2.20	D 3	2.50-2.95	U=26/450mm			
		(4.50)		2.50	2.50-2.95	U U1	3.50-3.95		SPT(S) N=18 3,3/4,3,5,6	
				3.00	D 4	4.50-4.95				U=20/0mm
				4.20	D 5	4.50-4.95				U=20/0mm
				4.50-5.00	B B2					
4.50-4.95		U U2		6.00-6.45	SPT(S) N=11 2,3/2,4,3,2					
MADE GROUND: Soft dark grey and black silty clay, with occasional pockets of peat. (FILL)		6.70 97.73		6.70	D 7	7.50-7.95	U=30/135mm			
		7.10 97.33		7.10	D 8	8.00			D 9	
MADE GROUND: Orange slightly clayey sand. Sand is fine to medium. (FILL)	(1.40)	8.50 95.93	8.50-9.00	B B3	9.00-9.45	SPT(S) N=19 3,3/3,4,5,7				
MADE GROUND: Firm to stiff brown and green slightly sandy silty clay. Sand is fine to medium. (FILL)		10.00	D 10	10.50-10.95			U=38/450mm			
		10.50-10.95	U U4							
		11.00	D 11							

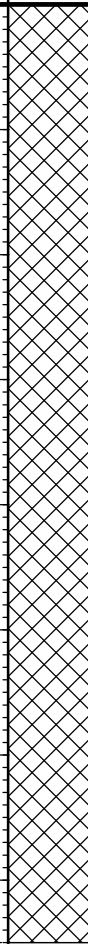
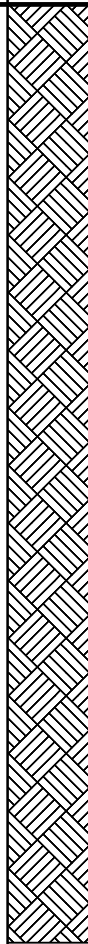

<b>Remarks</b> 1. Engineer verified logged in general accordance to BS 5930:2015. 2. Area CAT scanned prior to excavation. 3. Groundwater encountered to 17.50 m bgl. 4. Installed with a 63 mm HDPE standpipe to 17.50 m bgl. 5. Hand pit to 1.21 m bgl.	<b>Chiselling Details</b>		<b>Water Level Observations</b>				
	Depth (m)	Time	Date	Time	Water Strike (m)	Standing (m)	Casing Depth (m)
	NO CHISELLING UNDERTAKEN		NO WATER ENCOUNTERED				
	<b>Borehole Diameter</b>		<b>Casing Diameter</b>		<b>Depth Sealed</b>		
			150mm to 2.50m				
Coordinates (National Grid) / Level (mAOD): E:491008.194 N:290851.84 Level:104.426	Drilled By: SE Drilling	Plant Used: Dando 2000	Logged By: AC	Checked By: SS	Approved By: SS	Scale: 1:60	

Description of Strata	Legend	Strata Depth Reduced Level (Thickness)	Casing Depth (Dia. mm)	Sample Details		Test Details		Backfill
				Depth (m)	Type Ref	Depth (m)	Results	
MADE GROUND: Firm to stiff brown and green slightly sandy silty clay. Sand is fine to medium. (FILL)(BH Continued)		(9.50)		11.50	D 12	12.00-12.45	SPT(S) N=38 4,5/5,9,12,12	
				12.50	B B4			
				13.50-13.95	U U5	13.50-13.95	U=35/270mm	
				14.00	D 13			
				15.00-15.45		15.00-15.45	SPT(S) N=25 3,4/6,6,6,7	
				16.00	D 14			
				16.50-16.95	U U6	16.50-16.95	U=30/360mm	
				17.00	D 15			
				18.00	D 16	18.00-18.45	SPT(S) N=50/220mm 9,6/10,21,19/70mm	
				18.50-18.95		18.50-18.95	SPT(C) N=50/80mm (12,13/15mm/41,9/5mm)	
Extremely weak dark grey slightly weathered laminated MUDSTONE. (WHITBY MUDSTONE FORMATION)		(0.50)						
Borehole complete at 18.50 m bgl.		18.50 85.93						

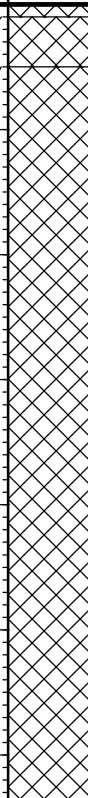
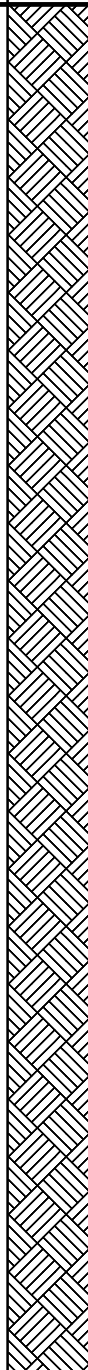
<b>Remarks</b> 1. Engineer verified logged in general accordance to BS 5930:2015. 2. Area CAT scanned prior to excavation. 3. Groundwater encountered to 17.50 m bgl. 4. Installed with a 63 mm HDPE standpipe to 17.50 m bgl. 5. Hand pit to 1.21 m bgl.	<b>Chiselling Details</b>		<b>Water Level Observations</b>				
	Depth (m)	Time	Date	Time	Water Strike (m)	Standing (m)	Casing Depth (m)
	NO CHISELLING UNDERTAKEN		NO WATER ENCOUNTERED				
	<b>Borehole Diameter</b>		<b>Casing Diameter</b>		<b>Depth Sealed</b>		
		150mm to 2.50m					
Coordinates (National Grid) / Level (mAOD): E:491008.194 N:290851.84 Level:104.426	Drilled By: SE Drilling	Plant Used: Dando 2000	Logged By: AC	Checked By: SS	Approved By: SS	Scale: 1:60	

Description of Strata	Legend	Strata Depth Reduced Level (Thickness)	Casing Depth (Dia. mm)	Sample Details		Test Details		Backfill
				Depth (m)	Type Ref	Depth (m)	Results	
MADE GROUND: Grass over firm to stiff greenish brown and dark grey slightly sandy slightly gravelly silty clay. Gravel is subangular to rounded, fine to medium chalk. (FILL)	[Cross-hatch pattern]	(6.00)	3.00	0.20	D 1	1.50-1.95	SPT(S) N=11 1,1/3,2,3,3	[Diagonal hatch pattern]
				0.40	D 2			
				0.50-1.00	B B1			
				1.00	D 3			
				2.00	D 4			
				2.50	B B2			
				2.50-2.95	U U1			
				3.00	D 5			
				3.50-3.95				
				4.00	D 6			
				4.50	B B3			
				4.50-4.95	U U2			
				5.00	D 7			
6.00	D 8	6.00-6.45	SPT(S) N=10 2,1/2,2,3,3					
MADE GROUND: Firm to stiff brown and dark grey slightly sandy gravelly silty clay. Gravel is subangular to rounded, fine to medium chalk. (FILL)	[Cross-hatch pattern]	(1.80)	7.80	6.50-7.00	B B4	7.50-7.95	U=45/450mm	[Diagonal hatch pattern]
				7.00	D 9			
MADE GROUND: Firm to stiff orange brown and dark grey slightly sandy slightly gravelly silty clay. Gravel is subangular to rounded, fine to coarse sandstone. (FILL)	[Cross-hatch pattern]	(0.90)	8.70	8.00	D 10	9.00-9.45	SPT(S) N=10 2,2/3,2,3,2	[Diagonal hatch pattern]
				8.00-8.50	B B5			
MADE GROUND: Firm to stiff brown and green slightly sandy very silty clay. Sand is fine to medium. (FILL)	[Cross-hatch pattern]	8.70	96.79	9.00	D 11	10.50-10.95	U=15/450mm	[Diagonal hatch pattern]
				10.00	D 12			
				10.50-10.95	U U4			
				11.00	D 13			

<b>Remarks</b> 1. Engineer verified logged in general accordance to BS 5930:2015. 2. Area CAT scanned prior to excavation. 3. Groundwater encountered to 17.50 m bgl. 4. Installed with a 63 mm HDPE standpipe to 17.50 m bgl. 5. Hand pit to 1.21 m bgl.	<b>Chiselling Details</b>		<b>Water Level Observations</b>				
	Depth (m)	Time	Date	Time	Water Strike (m)	Standing (m)	Casing Depth (m)
	NO CHISELLING UNDERTAKEN		NO WATER ENCOUNTERED				
	<b>Borehole Diameter</b>		<b>Casing Diameter</b>		<b>Depth Sealed</b>		
			150mm to 3.00m				
Coordinates (National Grid) / Level (mAOD): E:491038.008 N:290935.539 Level:105.49	Drilled By: SE Drilling	Plant Used: Dando 2000	Logged By: AC	Checked By: SS	Approved By: SS	Scale: 1:60	

Description of Strata	Legend	Strata Depth Reduced Level (Thickness)	Casing Depth (Dia. mm)	Sample Details		Test Details		Backfill
				Depth (m)	Type Ref	Depth (m)	Results	
MADE GROUND: Firm to stiff brown and green slightly sandy very silty clay. Sand is fine to medium. (FILL)(BH Continued)		(9.80)		12.00	D 14	12.00-12.45	SPT(S) N=14 2,2,3,4,3,4	
				13.00	D 15			
				13.50-13.95	U U5	13.50-13.95	U=25/450mm	
				14.00	D 16			
				15.00	D 17	15.00-15.45	SPT(S) N=14 1,2,3,3,4,4	
				16.00	D 18			
				16.50-16.95	U U6	16.50-16.95	U=20/450mm	
				17.00	D 19			
				18.00	D 20	18.00-18.45	SPT(S) N=24 2,4,4,5,6,9	
				18.50 86.99		18.50-18.95	SPT(S) N=80/80mm (12,13/50mm/40,40/5mm)	
Extremely weak dark grey slightly weathered laminated MUDSTONE. (WHITBY MUDSTONE FORMATION)		18.95 86.54						

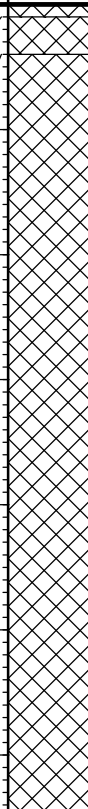
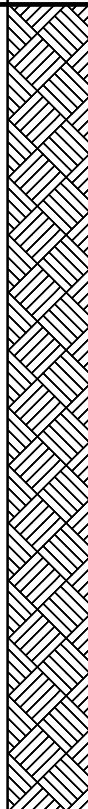
<b>Remarks</b> 1. Engineer verified logged in general accordance to BS 5930:2015. 2. Area CAT scanned prior to excavation. 3. Groundwater encountered to 17.50 m bgl. 4. Installed with a 63 mm HDPE standpipe to 17.50 m bgl. 5. Hand pit to 1.21 m bgl.	<b>Chiselling Details</b>		<b>Water Level Observations</b>				
	Depth (m)	Time	Date	Time	Water Strike (m)	Standing (m)	Casing Depth (m)
	NO CHISELLING UNDERTAKEN		NO WATER ENCOUNTERED				
	<b>Borehole Diameter</b>		<b>Casing Diameter</b>		<b>Depth Sealed</b>		
		150mm to 3.00m					

Description of Strata	Legend	Strata Depth Reduced Level (Thickness)	Casing Depth (Dia. mm)	Sample Details		Test Details		Backfill
				Depth (m)	Type Ref	Depth (m)	Results	
MADE GROUND: Asphalt.		0.10 104.78	(150)	0.30	D 1			
MADE GROUND: Light brown slightly gravelly sand. Gravel is subangular to subrounded fine to medium sandstone.		0.50 104.38		0.50	B B1			
MADE GROUND: Firm to stiff greenish brown and dark grey slightly sandy slightly gravelly silty clay. Gravel is subangular to rounded, fine to medium chalk. (FILL)		1.00		D 2				
		1.50		B B2	1.50-1.95		U=45/0mm	
		1.50-1.95		U U1				
		2.00		D 3				
		2.50			2.50-2.95		SPT(S) N=7 1,1/2,1,2,2	
		3.00		D 4				
		3.50-4.00		B B3	3.50-3.95		U=18/0mm	
		3.50-3.95		U U2				
		4.00		D 5				
		4.50-4.95			4.50-4.95		SPT(S) N=15 2,2/3,3,4,5	
6.00		D 7		6.00-6.45	U=45/450mm			
6.00-6.45		U U3						
6.40 98.48		6.50	D 8					
MADE GROUND: Soft dark grey and black silty clay, with occasional pockets of peat. (FILL)	(0.60)		7.00	D 9				
7.00 97.88				7.50-7.95	SPT(S) N=15 3,2/3,4,4,4			
MADE GROUND: Firm to stiff orange brown and dark grey slightly sandy slightly gravelly silty clay. Gravel is subangular to rounded, fine to coarse sandstone. (FILL)			8.00	D 10				
			9.00	D 11	9.00-9.45	U=85/450mm		
			9.00-9.45	U U4				
			9.50	D 12				
			10.00	D 13				
				10.50-10.95	SPT(S) N=16 2,3/3,4,4,5			
			11.00	D 14				

<b>Remarks</b> 1. Engineer verified logged in general accordance to BS 5930:2015. 2. Area CAT scanned prior to excavation. 3. Groundwater encountered to 17.50 m bgl. 4. Installed with a 63 mm HDPE standpipe to 17.50 m bgl. 5. Hand pit to 1.21 m bgl.	<b>Chiselling Details</b>		<b>Water Level Observations</b>				
	Depth (m)	Time	Date	Time	Water Strike (m)	Standing (m)	Casing Depth (m)
	NO CHISELLING UNDERTAKEN		NO WATER ENCOUNTERED				
	<b>Borehole Diameter</b>		<b>Casing Diameter</b>		<b>Depth Sealed</b>		
		150mm to 2.50m					
Coordinates (National Grid) / Level (mAOD): E:490967.894 N:290835.691 Level:104.878	Drilled By: SE Drilling	Plant Used: Dando 2000	Logged By: AC	Checked By: SS	Approved By: SS	Scale: 1:60	

Description of Strata	Legend	Strata Depth Reduced Level (Thickness)	Casing Depth (Dia. mm)	Sample Details		Test Details		Backfill		
				Depth (m)	Type Ref	Depth (m)	Results			
MADE GROUND: Firm to stiff orange brown and dark grey slightly sandy slightly gravelly silty clay. Gravel is subangular to rounded, fine to coarse sandstone. (FILL)(BH Continued)	[Cross-hatch pattern]	(8.80)		12.00	D 15	12.00-12.45	U=80/450mm	[Diagonal hatch pattern]		
				12.00-12.45	U U5					
				12.50	D 16					
				13.00	D 17					
							13.50-13.95		SPT(S) N=12 2,3/2,3,4,3	
						14.00	D 18			
						15.00	D 19		15.00-15.45	U=100/450mm
						15.00-15.45	U U6			
						15.50	D 20			
				15.80 89.08		16.00	D 21			
MADE GROUND: Firm to stiff orange brown and dark grey slightly sandy slightly gravelly silty clay. Gravel is subangular to rounded, fine to coarse sandstone. (FILL)	[Cross-hatch pattern]	(2.50)				16.50-16.95	SPT(S) N=24 4,4/5,5,5,9			
				17.00	D 22					
				18.00	D 23	18.00-18.45	U U7	U=100/450mm		
Strong light grey coarse grained SANDSTONE. (NORTHAMPTON SAND FORMATION)		18.30 86.58		18.50	D 24	18.50-18.95	SPT(C) N=50/235mm (5,6/11,16,18,5/10mm)			

<b>Remarks</b> 1. Engineer verified logged in general accordance to BS 5930:2015. 2. Area CAT scanned prior to excavation. 3. Groundwater encountered to 17.50 m bgl. 4. Installed with a 63 mm HDPE standpipe to 17.50 m bgl. 5. Hand pit to 1.21 m bgl.	<b>Chiselling Details</b>		<b>Water Level Observations</b>				
	Depth (m)	Time	Date	Time	Water Strike (m)	Standing (m)	Casing Depth (m)
	NO CHISELLING UNDERTAKEN		NO WATER ENCOUNTERED				
	<b>Borehole Diameter</b>		<b>Casing Diameter</b>		<b>Depth Sealed</b>		
			150mm to 2.50m				
Coordinates (National Grid) / Level (mAOD): E:490967.894 N:290835.691 Level:104.878	Drilled By: SE Drilling	Plant Used: Dando 2000	Logged By: AC	Checked By: SS	Approved By: SS	Scale: 1:60	



Description of Strata	Legend	Strata Depth Reduced Level (Thickness)	Casing Depth (Dia. mm)	Sample Details		Test Details		Backfill
				Depth (m)	Type Ref	Depth (m)	Results	
MADE GROUND: Asphalt.		0.10 106.30		0.30	D 1			
MADE GROUND: Light brown slightly gravelly sand. Gravel is subangular to subrounded fine to medium sandstone.		0.40 106.00		1.00	D 2			
MADE GROUND: Soft to firm brown and dark grey slightly sandy gravelly silty clay with occasional cobbles. Gravel is subangular to rounded, fine to medium chalk and sandstone. (FILL)		(6.10)		1.50-2.00	B B1	1.50-1.95	SPT(S) N=7 1,1,1,2,2,2	
				2.00	D 3			
				2.40	D 4			
				2.50-3.00	B B2	2.50-2.95	SPT(S) N=15 5,7,7,4,3,1	
				3.00	D 5			
				3.50-4.00	B B3	3.50-3.95	U=35/0mm	
				3.50-3.95	U U1			
				4.00	D 6			
					4.50-4.95		SPT(S) N=19 1,2,2,4,6,7	
					5.00	D 7		
				6.00-6.50	B B4	6.00-6.45	U=7/0mm	
		6.00-6.45	U U2					
MADE GROUND: Soft dark grey and black silty clay, with occasional pockets of peat. (FILL)	(6.00)	7.00	D 8					
				7.50-7.95	SPT(S) N=7 2,2,1,2,2,2			
			8.00	D 9				
			9.00	D 10				
			9.00-9.45	U U3	9.00-9.45	U=50/450mm		
			9.50	D 11				
			10.00	D 12				
				10.50-10.95	SPT(S) N=9 2,2,2,1,2,4			
				11.00	D 13			

<b>Remarks</b> 1. Engineer verified logged in general accordance to BS 5930:2015. 2. Area CAT scanned prior to excavation. 3. Groundwater encountered to 17.50 m bgl. 4. Installed with a 63 mm HDPE standpipe to 17.50 m bgl. 5. Hand pit to 1.21 m bgl.	<b>Chiselling Details</b>		<b>Water Level Observations</b>				
	Depth (m)	Time	Date	Time	Water Strike (m)	Standing (m)	Casing Depth (m)
	NO CHISELLING UNDERTAKEN		NO WATER ENCOUNTERED				
	<b>Borehole Diameter</b>		<b>Casing Diameter</b>		<b>Depth Sealed</b>		
Coordinates (National Grid) / Level (mAOD): E:490975.974 N:290921.914 Level:106.395	Drilled By: SE Drilling	Plant Used: Dando 2000	Logged By: AC	Checked By: SS	Approved By: SS	Scale: 1:60	



Description of Strata	Legend	Strata Depth Reduced Level (Thickness)	Casing Depth (Dia. mm)	Sample Details		Test Details		Backfill
				Depth (m)	Type Ref	Depth (m)	Results	
MADE GROUND: Soft dark grey and black silty clay, with occasional pockets of peat. (FILL)(BH Continued)	[Cross-hatch pattern]	12.50 93.90		12.00 12.00-12.45	D 14 U U4	12.00-12.45	U=40/450mm	[Diagonal hatch pattern]
MADE GROUND: Firm to stiff orange brown and dark grey slightly sandy slightly gravelly silty clay. Gravel is subangular to rounded, fine to coarse sandstone. (FILL)		(2.50)		12.50	D 15			
	[Cross-hatch pattern]	15.00 91.40		13.00	D 16			[Diagonal hatch pattern]
MADE GROUND: Firm grey brown slightly sandy silty clay. Sand is fine to medium. (FILL)		(3.50)		13.50-13.95			SPT(S) N=15 4,3/3,4,3,5	
	[Cross-hatch pattern]	18.50 87.90		14.00	D 17			[Diagonal hatch pattern]
MADE GROUND: Firm grey brown slightly sandy silty clay. Sand is fine to medium. (FILL)		(1.95)		15.00 15.00-15.50 15.00-15.45	D 18 B B5 U U5	15.00-15.45	U=20/0mm	
	[Cross-hatch pattern]	20.45 85.95		16.00	D 19			[Diagonal hatch pattern]
MADE GROUND: Firm grey brown slightly sandy gravelly silty clay. Gravel is fine to coarse, subangular to rounded sandstone. Sand is fine to medium. (FILL)		(1.95)		16.50-16.95			SPT(C) N=19 4,4/4,5,5,5	
	[Cross-hatch pattern]			17.00	D 20			[Diagonal hatch pattern]
MADE GROUND: Firm grey brown slightly sandy gravelly silty clay. Gravel is fine to coarse, subangular to rounded sandstone. Sand is fine to medium. (FILL)		(1.95)		18.00 18.00-18.50 18.00-18.45	D 21 B B6 U U6	18.00-18.45	U=100/0mm	
	[Cross-hatch pattern]			19.00	D 22			[Diagonal hatch pattern]
MADE GROUND: Firm grey brown slightly sandy gravelly silty clay. Gravel is fine to coarse, subangular to rounded sandstone. Sand is fine to medium. (FILL)		(1.95)		19.50-19.95			SPT(C) N=11 18,4/3,2,2,4	
	[Cross-hatch pattern]			20.00	D 23	20.00-20.45	SPT(C) N=31 5,7/7,8,7,9	[Diagonal hatch pattern]
Borehole complete at 20.45 m bgl.								

<b>Remarks</b> 1. Engineer verified logged in general accordance to BS 5930:2015. 2. Area CAT scanned prior to excavation. 3. Groundwater encountered to 17.50 m bgl. 4. Installed with a 63 mm HDPE standpipe to 17.50 m bgl. 5. Hand pit to 1.21 m bgl.	<b>Chiselling Details</b>		<b>Water Level Observations</b>				
	Depth (m)	Time	Date	Time	Water Strike (m)	Standing (m)	Casing Depth (m)
	NO CHISELLING UNDERTAKEN		NO WATER ENCOUNTERED				
	<b>Borehole Diameter</b>		<b>Casing Diameter</b>		<b>Depth Sealed</b>		
Coordinates (National Grid) / Level (mAOD): E:490975.974 N:290921.914 Level:106.395	Drilled By: SE Drilling	Plant Used: Dando 2000	Logged By: AC	Checked By: SS	Approved By: SS	Scale: 1:60	





Description of Strata	Legend	Strata Depth Reduced Level (Thickness)	Casing Depth (Dia. mm)	Sample Details		Test Details		Backfill
				Depth (m)	Type Ref	Depth (m)	Results	
MADE GROUND: Pinkish grey loose granite gravel hardstanding and topsoil.		0.05 104.18		0.10-0.25	ES 1	0.10	PID=<0.1ppm	
MADE GROUND: Light greyish brown slightly gravelly sand. Gravel if angular to subangular fine to coarse sandstone and rare flint gravels.		0.25 103.98		0.50-0.80	ES 2	0.50	PID=<0.1ppm	
MADE GROUND: Dark grey slightly silty slightly gravelly clay. Gravel is rounded to subrounded fine to medium sandstone and chalk with rare flint gravels. (FILL) 0.50 - 0.90 Rootlets and occasional fibrous to pseudo-fibrous peat.		(2.75)						
Borehole complete at 3.00 m bgl.		3.00 101.23						





<b>Remarks</b> 1. Engineer verified logged in general accordance to BS 5930:2015. 2. Area CAT scanned prior to excavation. 3. Borehole remained dry on completion. 4. Installed with a 50 mm HDPE standpipe to 3.00 m b.g.l.	Chiselling Details		Water Level Observations				
	Depth (m)	Time	Date	Time	Water Strike (m)	Standing (m)	Casing Depth (m)
	NO CHISELLING UNDERTAKEN		NO WATER ENCOUNTERED				
	Borehole Diameter		Casing Diameter		Depth Sealed		

Description of Strata	Legend	Strata Depth Reduced Level (Thickness)	Casing Depth (Dia. mm)	Sample Details		Test Details		Backfill
				Depth (m)	Type Ref	Depth (m)	Results	
MADE GROUND: Pinkish grey loose granite gravel hardstanding and topsoil.		0.05 103.54		0.30-0.50	ES 1	0.30	PID=0.1ppm	
MADE GROUND: Dark green slightly silty slightly gravelly clay. Gravel is angular to rounded fine to medium flint, granite and sandstone. (FILL) 0.50 - 2.00 Occasional black pseudo-fibrous peat deposits.		(2.95)						
Borehole complete at 3.00 m bgl.		3.00 100.59						



<b>Remarks</b> 1. Engineer verified logged in general accordance to BS 5930:2015. 2. Area CAT scanned prior to excavation. 3. Borehole remained dry on completion. 4. Backfilled with arisings.	<b>Chiselling Details</b>		<b>Water Level Observations</b>				
	Depth (m)	Time	Date	Time	Water Strike (m)	Standing (m)	Casing Depth (m)
	NO CHISELLING UNDERTAKEN		NO WATER ENCOUNTERED				
	<b>Borehole Diameter</b>		<b>Casing Diameter</b>		<b>Depth Sealed</b>		
Coordinates (National Grid) / Level (mAOD): E:491088.18 N:290861.848 Level:103.593	Drilled By: AK	Plant Used: Premier 110	Logged By: SR	Checked By: SS	Approved By: SS	Scale: 1:30	

Description of Strata	Legend	Strata Depth Reduced Level (Thickness)	Casing Depth (Dia. mm)	Sample Details		Test Details		Backfill
				Depth (m)	Type Ref	Depth (m)	Results	
MADE GROUND: Pinkish grey loose granite hardstanding and topsoil.		0.05 104.39		0.20-0.30	ES 1	0.20	PID=0.7ppm	
MADE GROUND: Light greyish brown slightly gravelly sand. Sand is medium to coarse. Gravel is angular to subangular fine to coarse with occasional concrete gravels.		(0.25)						
MADE GROUND: Dark grey slightly silty slightly gravelly clay. Gravel is subangular to rounded flint and occasional chalk with organic odour. (FILL)		0.30 104.14		0.60-0.90	ES 2	0.60	PID=0.3ppm	
1.00 - 1.80 Occasional layers of peat and rootlets.		(2.70)						
Borehole completed at 3.00 m bgl.		3.00 101.44						





<b>Remarks</b> 1. Engineer verified logged in general accordance to BS 5930:2015. 2. Area CAT scanned prior to excavation. 3. Borehole remained dry on completion. 4. Backfilled with arisings.	<b>Chiselling Details</b>		<b>Water Level Observations</b>				
	Depth (m)	Time	Date	Time	Water Strike (m)	Standing (m)	Casing Depth (m)
	NO CHISELLING UNDERTAKEN		NO WATER ENCOUNTERED				
	<b>Borehole Diameter</b>		<b>Casing Diameter</b>		<b>Depth Sealed</b>		

Description of Strata	Legend	Strata Depth Reduced Level (Thickness)	Casing Depth (Dia. mm)	Sample Details		Test Details		Backfill
				Depth (m)	Type Ref	Depth (m)	Results	
MADE GROUND: Pinkish grey loose granite gravel hardstanding and topsoil.		0.05 104.91		0.20-0.30	ES 1	0.20	PID=1.2ppm	
MADE GROUND: Light greyish brown slightly gravelly sand. Gravel is angular to subangular fine to coarse sandstone.		(0.37)						
MADE GROUND: Dark grey slightly silty slightly gravelly clay. Gravel is subangular to rounded fine to medium chalk, flint and sandstone with organic odour. (FILL)		0.42 104.54		1.00-1.40	ES 1	1.00	PID=2.1ppm	
1.00 - 3.00 Occasional layers of black fibrous peat.		(2.58)						
Borehole complete at 3.00 m bgl.		3.00 101.96						



<b>Remarks</b> 1. Engineer verified logged in general accordance to BS 5930:2015. 2. Area CAT scanned prior to excavation. 3. Borehole remained dry on completion. 4. Installed with a 50 mm HDPE standpipe to 3.00 m b.g.l.	<b>Chiselling Details</b>		<b>Water Level Observations</b>				
	Depth (m)	Time	Date	Time	Water Strike (m)	Standing (m)	Casing Depth (m)
	NO CHISELLING UNDERTAKEN		NO WATER ENCOUNTERED				
	<b>Borehole Diameter</b>		<b>Casing Diameter</b>		<b>Depth Sealed</b>		

Description of Strata	Legend	Strata Depth Reduced Level (Thickness)	Casing Depth (Dia. mm)	Sample Details		Test Details		Backfill
				Depth (m)	Type Ref	Depth (m)	Results	
MADE GROUND:Tarmac hardstanding.		0.08 104.47		0.20-0.30	ES 1	0.20	PID=0.7ppm	
MADE GROUND:Light greyish brown slightly gravelly sand. Gravel is angular to subangular fine to medium sandstone with rare red sandstone gravels.		0.30 104.19						
MADE GROUND:Dark grey mottled brown slightly silty slightly sandy slightly gravelly clay. Gravels are subangular to rounded fine to coarse flint and sandstone. (FILL) 0.60 - 0.90 Occasional rootlets and pseudo-fibrous peat.		(2.70)		2.00-2.40	ES 2	2.00	PID=0.3ppm	
Borehole complete at 3.00 m bgl.		3.00 101.49						





<b>Remarks</b> 1. Engineer verified logged in general accordance to BS 5930:2015. 2. Area CAT scanned prior to excavation. 3. Borehole remained dry on completion. 4. Installed with a 50 mm HDPE standpipe to 3.00 m b.g.l.	Chiselling Details		Water Level Observations				
	Depth (m)	Time	Date	Time	Water Strike (m)	Standing (m)	Casing Depth (m)
	NO CHISELLING UNDERTAKEN		NO WATER ENCOUNTERED				
	Borehole Diameter		Casing Diameter		Depth Sealed		

Description of Strata	Legend	Strata Depth Reduced Level (Thickness)	Casing Depth (Dia. mm)	Sample Details		Test Details		Backfill
				Depth (m)	Type Ref	Depth (m)	Results	
MADE GROUND:Tarmac hardstanding.		0.08 105.13		0.20-0.30	ES 1	0.20	PID=0.3ppm	
MADE GROUND:Light greyish brown slightly gravelly sand.		0.30 104.91						
MADE GROUND:Possible concrete cobble obstruction. (Limited Recovery).		0.34 104.87						
MADE GROUND:Dark grey mottled brown slightly silty slightly gravelly clay. Gravel is subangular to rounded chalk and sandstone chert aggregate. (FILL)		(2.66)		1.50-1.80	ES 2	1.50	PID=<0.1ppm	
1.30 - 1.90 Rare pseudo-fibrous peat								
Borehole complete at 3.00 m bgl.		3.00 102.21						

<b>Remarks</b> 1. Engineer verified logged in general accordance to BS 5930:2015. 2. Area CAT scanned prior to excavation. 3. Borehole remained dry on completion. 4. Backfilled with arisings.	<b>Chiselling Details</b>		<b>Water Level Observations</b>				
	Depth (m)	Time	Date	Time	Water Strike (m)	Standing (m)	Casing Depth (m)
	NO CHISELLING UNDERTAKEN		NO WATER ENCOUNTERED				
	<b>Borehole Diameter</b>		<b>Casing Diameter</b>		<b>Depth Sealed</b>		


Description of Strata	Legend	Strata Depth Reduced Level (Thickness)	Casing Depth (Dia. mm)	Sample Details		Test Details		Backfill
				Depth (m)	Type Ref	Depth (m)	Results	
MADE GROUND:Tarmac hardstanding.		0.08 105.70		0.20-0.30	ES 1	0.20	PID=0.1ppm	
MADE GROUND:Light brownish red slightly sandy gravel;. Gravel is angular to subangular fine to medium sandstone.		0.20 105.58						
MADE GROUND:Light brown slightly gravelly sand. Sand is fine to coarse. Gravel is angular fine to medium sandstone with rare flint.		0.40 105.38						
MADE GROUND:Dark grey slightly silty slightly gravelly clay. Gravel is angular to rounded fine to medium chalk and sandstone with organic odour. (FILL) 0.40 - 0.70 Pseudo-fibrous peat.		(2.60)		1.30-0.70	ES 2	1.30	PID=<0.1ppm	
Borehole complete at 3.00 m bgl.		3.00 102.78						

<b>Remarks</b> 1. Engineer verified logged in general accordance to BS 5930:2015. 2. Area CAT scanned prior to excavation. 3. Borehole remained dry on completion. 4. Installed with a 50 mm HDPE standpipe to 3.00 m b.g.l.	Chiselling Details		Water Level Observations				
	Depth (m)	Time	Date	Time	Water Strike (m)	Standing (m)	Casing Depth (m)
	NO CHISELLING UNDERTAKEN		NO WATER ENCOUNTERED				
	Borehole Diameter		Casing Diameter		Depth Sealed		



Description of Strata	Legend	Strata Depth Reduced Level (Thickness)	Casing Depth (Dia. mm)	Sample Details		Test Details		Backfill
				Depth (m)	Type Ref	Depth (m)	Results	
MADE GROUND:Tarmac hardstanding.		0.08 105.47		0.08-0.11	ES 1	0.08	PID=0.3ppm	
MADE GROUND:Light greyish red slightly sandy gravel. Gravel is angular to subangular fine to medium flint and sandstone.		0.11 105.44		0.90-1.00	ES 2	0.90	PID=631 ppm	
MADE GROUND:Light greyish brown slightly gravelly sand. Gravel is angular to rounded fine to medium flint and sandstone.		0.25 105.30						
MADE GROUND:Dark grey mottled brown slightly silty slightly gravelly clay. Gravel is angular to rounded fine to medium chalk, flint and sandstone. (FILL) 0.90 - 1.00 Black staining and strong HC odour.		(2.75)		2.30-2.70	ES 3	2.30	PID=0.4ppm	
Borehole complete at 3.00 m bgl.		3.00 102.55						

<b>Remarks</b> 1. Engineer verified logged in general accordance to BS 5930:2015. 2. Area CAT scanned prior to excavation. 3. Borehole remained dry on completion. 4. Installed with a 50 mm HDPE standpipe to 3.00 m b.g.l.	<b>Chiselling Details</b>		<b>Water Level Observations</b>				
	Depth (m)	Time	Date	Time	Water Strike (m)	Standing (m)	Casing Depth (m)
	NO CHISELLING UNDERTAKEN		NO WATER ENCOUNTERED				
	<b>Borehole Diameter</b>		<b>Casing Diameter</b>		<b>Depth Sealed</b>		




Description of Strata	Legend	Strata Depth Reduced Level (Thickness)	Casing Depth (Dia. mm)	Sample Details		Test Details	
				Depth (m)	Type Ref	Depth (m)	Results
MADE GROUND:Tarmac hardstanding.		0.08 104.30				0.08	PID=<0.1ppm
MADE GROUND:Light greyish red very sandy gravel. Gravel is angular to subangular fine to medium sandstone. Sand is medium to coarse.		0.10 104.28				0.10	PID=<0.1ppm
MADE GROUND:Light greyish brown slightly gravelly sand. Sand is medium to coarse. Gravel is angular fine sandstone.		0.25 104.13				0.70	PID=<0.1ppm
MADE GROUND:Grey slightly silty slightly gravelly clay. Gravel is subangular to rounded fine to medium chalk, flint and sandstone. (FILL)		(2.75)					
Borehole complete at 3.00 m bgl.		3.00 101.38					



<b>Remarks</b> 1. Engineer verified logged in general accordance to BS 5930:2015. 2. Area CAT scanned prior to excavation. 3. Borehole remained dry on completion. 4. Backfilled with arisings.	<b>Chiselling Details</b>		<b>Water Level Observations</b>				
	Depth (m)	Time	Date	Time	Water Strike (m)	Standing (m)	Casing Depth (m)
	NO CHISELLING UNDERTAKEN		NO WATER ENCOUNTERED				
	<b>Borehole Diameter</b>		<b>Casing Diameter</b>		<b>Depth Sealed</b>		

Description of Strata	Legend	Strata Depth Reduced Level (Thickness)	Casing Depth (Dia. mm)	Sample Details		Test Details		Backfill
				Depth (m)	Type Ref	Depth (m)	Results	
MADE GROUND:Tarmac hardstanding.		0.08 105.24		0.10-0.20	ES 1	0.08	PID=<0.1ppm PID=0.3ppm	
MADE GROUND:Light brownish red slightly sandy gravel. Gravel is angular fine to medium sandstone. Sand is medium to coarse.		0.10 105.22						
MADE GROUND:Light greyish brown slightly gravelly sand.		0.20 105.12		2.20-2.50	ES 2	2.20	PID=0.2ppm	
MADE GROUND:Dark grey slightly silty slightly gravelly clay. Gravel is rounded to subrounded fine to medium sandstone and occasional chalk. (FILL)		(2.80)						
Borehole complete at 3.00 m bgl.		3.00 102.32						



<b>Remarks</b> 1. Engineer verified logged in general accordance to BS 5930:2015. 2. Area CAT scanned prior to excavation. 3. Borehole remained dry on completion. 4. Installed with a 50 mm HDPE standpipe to 3.00 m b.g.l.	<b>Chiselling Details</b>		<b>Water Level Observations</b>				
	Depth (m)	Time	Date	Time	Water Strike (m)	Standing (m)	Casing Depth (m)
	NO CHISELLING UNDERTAKEN		NO WATER ENCOUNTERED				
	<b>Borehole Diameter</b>		<b>Casing Diameter</b>		<b>Depth Sealed</b>		

Description of Strata	Legend	Strata Depth Reduced Level (Thickness)	Casing Depth (Dia. mm)	Sample Details		Test Details	
				Depth (m)	Type Ref	Depth (m)	Results
MADE GROUND:Tarmac hardstanding.		0.08 105.28					
MADE GROUND:Light greyish brown slightly gravelly sand. Gravel is subangular to subrounded fine sandstone.		0.20 105.16					
MADE GROUND:Dark grey slightly sandy slightly gravelly clay. Gravel is rounded to subrounded fine to medium chalk and sandstone. (FILL) 0.40 - 0.70 Occasional rootlets.		(1.60)					
		1.60-1.80	ES 1	1.60	PID=0.1ppm		
		1.80-2.10	ES 2	1.80	PID=<0.1ppm		
MADE GROUND:Light greyish brown silty clayey gravel. Gravel is medium subrounded sandstone. (FILL)		(0.30)					
		2.10 103.26					
MADE GROUND:Dark grey slightly gravelly silty clay. (FILL)		(0.90)					
		3.00 102.36					
Borehole complete at 3.00 m bgl.							





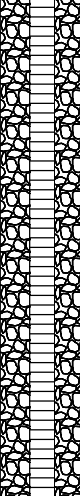
<b>Remarks</b> 1. Engineer verified logged in general accordance to BS 5930:2015. 2. Area CAT scanned prior to excavation. 3. Borehole remained dry on completion. 4. Backfilled with arisings.	<b>Chiselling Details</b>		<b>Water Level Observations</b>				
	Depth (m)	Time	Date	Time	Water Strike (m)	Standing (m)	Casing Depth (m)
	NO CHISELLING UNDERTAKEN		NO WATER ENCOUNTERED				
	<b>Borehole Diameter</b>		<b>Casing Diameter</b>		<b>Depth Sealed</b>		
Coordinates (National Grid) / Level (mAOD): E:491003.521 N:290886.164 Level:105.362	Drilled By: AK	Plant Used: Premier 110	Logged By: SR	Checked By: SS	Approved By: SS	Scale: 1:30	

Description of Strata	Legend	Strata Depth Reduced Level (Thickness)	Casing Depth (Dia. mm)	Sample Details		Test Details		Backfill
				Depth (m)	Type Ref	Depth (m)	Results	
MADE GROUND:Tarmac hardstanding.		0.08 104.65		0.08-0.10	ES 1	0.08	PID=<0.1ppm	
MADE GROUND:Light greyish red slightly sandy gravel. Gravel is angular to subangular fine to medium sandstone and granite.		0.10 104.63						
MADE GROUND:Light greyish brown slightly gravelly gravel. Sand is fine to coarse. Gravel subangular to rounded sandstone.		0.30 104.43		1.30-1.50	ES 2	1.30	PID=<0.1ppm	
MADE GROUND:Dark grey slightly silty slightly gravelly CLAY. Gravel is rounded to subrounded fine to medium sandstone, chalk and rare flint. (FILL)		(2.70)						
Borehole complete 3.00 m bgl.		3.00 101.73						



<b>Remarks</b> 1. Engineer verified logged in general accordance to BS 5930:2015. 2. Area CAT scanned prior to excavation. 3. Borehole remained dry on completion. 4. Backfilled with arisings.	<b>Chiselling Details</b>		<b>Water Level Observations</b>										
	Depth (m)	Time	Date	Time	Water Strike (m)	Standing (m)	Casing Depth (m)						
	NO CHISELLING UNDERTAKEN		NO WATER ENCOUNTERED										
	<b>Borehole Diameter</b>		<b>Casing Diameter</b>		<b>Depth Sealed</b>								
Coordinates (National Grid) / Level (mAOD): E:490999.608 N:290857.155 Level:104.725		Drilled By: AK		Plant Used: Premier 110		Logged By: SR		Checked By: SS		Approved By: SS		Scale: 1:30	

Description of Strata	Legend	Strata Depth Reduced Level (Thickness)	Casing Depth (Dia. mm)	Sample Details		Test Details		Backfill
				Depth (m)	Type Ref	Depth (m)	Results	
MADE GROUND:Tarmac hardstanding.		0.08 106.24		0.40-0.50	ES 1	0.40	PID=<0.1ppm	
MADE GROUND:Light greyish brown slightly gravelly sand. Sand is medium to coarse. Gravel is subangular fine to medium sandstone.		(0.42)						
MADE GROUND:Dark grey slightly silty slightly gravelly clay. Gravel is rounded to subrounded fine to medium chalk and sandstone. (FILL)		0.50 105.82						
		(2.50)						
Borehole complete at 3.00 m bgl.		3.00 103.32						



<b>Remarks</b> 1. Engineer verified logged in general accordance to BS 5930:2015. 2. Area CAT scanned prior to excavation. 3. Borehole remained dry on completion. 4. Backfilled with arisings.	<b>Chiselling Details</b>		<b>Water Level Observations</b>				
	Depth (m)	Time	Date	Time	Water Strike (m)	Standing (m)	Casing Depth (m)
	NO CHISELLING UNDERTAKEN		NO WATER ENCOUNTERED				
	<b>Borehole Diameter</b>		<b>Casing Diameter</b>		<b>Depth Sealed</b>		

Description of Strata	Legend	Strata Depth Reduced Level (Thickness)	Casing Depth (Dia. mm)	Sample Details		Test Details		Backfill
				Depth (m)	Type Ref	Depth (m)	Results	
MADE GROUND:Tarmac hardstanding.		0.08 106.47						
MADE GROUND:Brownish red slightly sandy GRAVEL. Gravel is angular to subangular fine to medium granite and sandstone.		0.12 106.43		0.20-0.30	ES 1	0.20	PID=0.4ppm	
MADE GROUND:Light greyish brown slightly gravelly SAND. Sand is fine to coarse. Gravel is angular to subangular fine to medium sandstone.		0.30 106.25						
MADE GROUND:Dark grey mottled brown slightly silty slightly gravelly CLAY. Gravel is rounded to subrounded fine to medium chalk and sandstone with rare flint.		(2.70)		1.80-2.00	ES 2	1.80	PID=0.4ppm	
Borehole complete at 3.00 m bgl.		3.00 103.55						

<b>Remarks</b> 1. Engineer verified logged in general accordance to BS 5930:2015. 2. Area CAT scanned prior to excavation. 3. Borehole remained dry on completion. 4. Installed with a 50 mm HDPE standpipe to 3.00 m b.g.l.	<b>Chiselling Details</b>		<b>Water Level Observations</b>				
	Depth (m)	Time	Date	Time	Water Strike (m)	Standing (m)	Casing Depth (m)
	NO CHISELLING UNDERTAKEN		NO WATER ENCOUNTERED				
	<b>Borehole Diameter</b>		<b>Casing Diameter</b>		<b>Depth Sealed</b>		
Coordinates (National Grid) / Level (mAOD): E:490947.756 N:290902.426 Level:106.55	Drilled By: AK	Plant Used: Premier 110	Logged By: SR	Checked By: SS	Approved By: SS	Scale: 1:30	



Description of Strata	Legend	Strata Depth Reduced Level (Thickness)	Casing Depth (Dia. mm)	Sample Details		Test Details		Backfill
				Depth (m)	Type Ref	Depth (m)	Results	
MADE GROUND:Tarmac hardstanding.		0.08 105.68		0.15-0.20	ES 1	0.15	PID=<0.1ppm	
MADE GROUND:Brownish red slightly sandy gravel. Gravel is angular to subangular fine to medium sandstone and occasional granite.		0.10 105.66						
MADE GROUND:Light greyish brown slightly gravelly sand. Sand is fine to coarse. Gravel is angular fine to medium sandstone.		0.25 105.51		0.70-1.00	ES 2	0.70	PID=0.1ppm	
MADE GROUND:Dark grey mottled brown slightly silty slightly gravelly clay. Gravel is subangular to rounded fine to medium sandstone chalk and flint. (FILL) 0.25 - 0.35 Occasional rootlets.		(2.75)						
Borehole complete 3.00 m bgl.		3.00 102.76						

<b>Remarks</b> 1. Engineer verified logged in general accordance to BS 5930:2015. 2. Area CAT scanned prior to excavation. 3. Borehole remained dry on completion. 4. Installed with a 50 mm HDPE standpipe to 3.00 m b.g.l.	<b>Chiselling Details</b>		<b>Water Level Observations</b>				
	Depth (m)	Time	Date	Time	Water Strike (m)	Standing (m)	Casing Depth (m)
	NO CHISELLING UNDERTAKEN		NO WATER ENCOUNTERED				
	<b>Borehole Diameter</b>		<b>Casing Diameter</b>		<b>Depth Sealed</b>		
Coordinates (National Grid) / Level (mAOD): E:490948.631 N:290862.675 Level:105.758	Drilled By: AK	Plant Used: Premier 110	Logged By: SR	Checked By: SS	Approved By: SS	Scale: 1:30	



Description of Strata	Legend	Strata Depth Reduced Level (Thickness)	Casing Depth (Dia. mm)	Sample Details		Test Details		Backfill
				Depth (m)	Type Ref	Depth (m)	Results	
MADE GROUND: Pinkish grey loose granite gravel and topsoil.		0.05 105.02		0.05-0.10	ES 1	0.05	PID=0.6ppm	
MADE GROUND: Brownish red slightly sandy gravel. Gravel is angular fine to medium sandstone. Sand is fine to coarse.		0.10 104.97		1.50-1.80	ES 2	1.50	PID=0.1ppm	
MADE GROUND: Dark grey mottled yellow brown slightly silty slightly gravelly clay. Gravel is rounded to subrounded fine to medium chalk, sandstone with occasional concrete and flint. (FILL)		(2.90)						
Borehole complete at 3.00 m bgl.		3.00 102.07						

<b>Remarks</b> 1. Engineer verified logged in general accordance to BS 5930:2015. 2. Area CAT scanned prior to excavation. 3. Borehole remained dry on completion. 4. Backfilled with arisings.	<b>Chiselling Details</b>		<b>Water Level Observations</b>				
	Depth (m)	Time	Date	Time	Water Strike (m)	Standing (m)	Casing Depth (m)
	NO CHISELLING UNDERTAKEN		NO WATER ENCOUNTERED				
	<b>Borehole Diameter</b>		<b>Casing Diameter</b>		<b>Depth Sealed</b>		
Coordinates (National Grid) / Level (mAOD): E:490937.929 N:290819.633 Level:105.066	Drilled By: AK	Plant Used: Premier 110	Logged By: SR	Checked By: SS	Approved By: SS	Scale: 1:30	





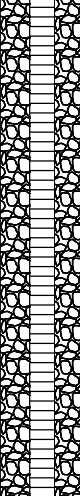


Description of Strata	Legend	Strata Depth Reduced Level (Thickness)	Casing Depth (Dia. mm)	Sample Details		Test Details		Backfill				
				Depth (m)	Type Ref	Depth (m)	Results					
MADE GROUND:Tarmac hardstanding.		0.08 105.47		0.20-0.30	ES 1	0.20	PID=0.2ppm					
MADE GROUND:Light greyish brown slightly gravelly sand. Sand is medium to coarse. Gravel is angular fine to medium sandstone and rare granite.		0.30 105.25							0.50-0.70	ES 2	0.50	PID=0.2ppm
MADE GROUND:Dark grey mottled browny orange slightly silty slightly gravelly clay. Gravel is subangular to rounded fine to medium sandstone and chalk with rare granite and flint gravel. (FILL) 0.40 - 0.60 Pseudo-fibrous peat.		(2.70)										
Borehole complete at 3.00 m bgl.		3.00 102.55										



<b>Remarks</b> 1. Engineer verified logged in general accordance to BS 5930:2015. 2. Area CAT scanned prior to excavation. 3. Borehole remained dry on completion. 4. Installed with a 50 mm HDPE standpipe to 3.00 m b.g.l.	<b>Chiselling Details</b>		<b>Water Level Observations</b>				
	Depth (m)	Time	Date	Time	Water Strike (m)	Standing (m)	Casing Depth (m)
	NO CHISELLING UNDERTAKEN		NO WATER ENCOUNTERED				
	<b>Borehole Diameter</b>		<b>Casing Diameter</b>		<b>Depth Sealed</b>		

Description of Strata	Legend	Strata Depth Reduced Level (Thickness)	Casing Depth (Dia. mm)	Sample Details		Test Details		Backfill
				Depth (m)	Type Ref	Depth (m)	Results	
MADE GROUND:Tarmac hardstanding.		0.08 106.32		0.10-0.30	ES 1	0.10	PID=0.3ppm	
MADE GROUND:Light greyish brown slightly gravelly sand. Sand is fine to coarse. Gravel is angular to subangular fine to medium sandstone.		0.30 106.10						
MADE GROUND:Dark grey mottled yellowy brown slightly silty slightly gravelly clay. Gravel is rounded to subrounded fine to medium chalk and sandstone with rare angular flint and granite. (FILL)		(2.70)		1.30-1.50	ES 2	1.30	PID=0.3ppm	
Borehole complete at 3.00 m bgl.		3.00 103.40						

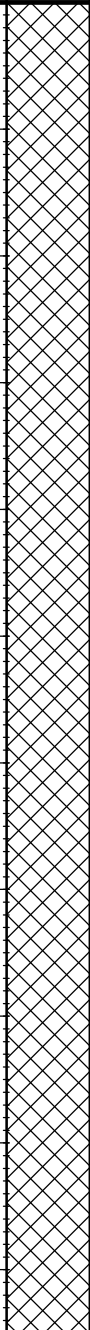
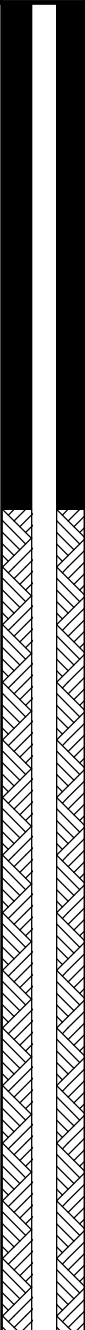
<b>Remarks</b> 1. Engineer verified logged in general accordance to BS 5930:2015. 2. Area CAT scanned prior to excavation. 3. Borehole remained dry on completion. 4. Installed with a 50 mm HDPE standpipe to 3.00 m b.g.l.	Chiselling Details		Water Level Observations				
	Depth (m)	Time	Date	Time	Water Strike (m)	Standing (m)	Casing Depth (m)
	NO CHISELLING UNDERTAKEN		NO WATER ENCOUNTERED				
	Borehole Diameter		Casing Diameter		Depth Sealed		

Description of Strata	Legend	Strata Depth Reduced Level (Thickness)	Casing Depth (Dia. mm)	Sample Details		Test Details		Backfill
				Depth (m)	Type Ref	Depth (m)	Results	
MADE GROUND:Tarmac hardstanding.		0.08 106.82						
MADE GROUND:Light brownish red sandy gravel. Gravel is angular to subangular fine medium sandstone and occasional granite. Sand is fine to coarse.		0.12 106.78 (0.23) 0.35 106.55		0.20-0.30	ES 1	0.20	PID=<0.1ppm	
MADE GROUND:Light greyish brown slightly gravelly sand. Sand is fine to coarse. Gravel is angular fine to medium sandstone.								
MADE GROUND:Dark grey mottled brown slightly silty slightly gravelly clay. Gravel is rounded to subrounded fine to medium chalk and sandstone with rare flint. (FILL)				0.80-1.00	ES 2	0.80	PID=<0.1ppm	
		(2.65)						
		3.00 103.90						
Borehole complete at 3.00 m bgl.								

<b>Remarks</b> 1. Engineer verified logged in general accordance to BS 5930:2015. 2. Area CAT scanned prior to excavation. 3. Borehole remained dry on completion. 4. Installed with a 50 mm HDPE standpipe to 3.00 m b.g.l.	<b>Chiselling Details</b>		<b>Water Level Observations</b>				
	Depth (m)	Time	Date	Time	Water Strike (m)	Standing (m)	Casing Depth (m)
	NO CHISELLING UNDERTAKEN		NO WATER ENCOUNTERED				
	<b>Borehole Diameter</b>		<b>Casing Diameter</b>		<b>Depth Sealed</b>		
Coordinates (National Grid) / Level (mAOD): E:490892.122 N:290883.022 Level:106.898	Drilled By: AK	Plant Used: Premier 110	Logged By: SR	Checked By: SS	Approved By: SS	Scale: 1:30	




Description of Strata	Legend	Strata Depth Reduced Level (Thickness)	Casing Depth (Dia. mm)	Sample Details		Test Details		Backfill
				Depth (m)	Type Ref	Depth (m)	Results	
MADE GROUND:Tarmac hardstanding.		0.08 107.20		0.10-0.20	ES 1	0.20	PID=0.1ppm	
MADE GROUND:Brownish red sandy gravel. Gravel is angular fine to medium granite and sandstone. Sand is medium to coarse.		0.10 107.18		0.70-1.00	ES 2			
MADE GROUND:Light greyish brown slightly gravelly sand.		0.30 106.98						
MADE GROUND:Possible concrete cobble obstruction. (Limited Recovery).		0.35 106.93						
MADE GROUND:Dark grey mottled brown slightly silty slightly gravelly clay. Gravel is rounded to subrounded fine to medium chalk and occasional sandstone and flint. (FILL) 0.40 - 0.60 Roofless encountered.		(2.65)		1.20	PID=0.2ppm			
2.20 - 2.60 Pseudo-fibrous black peat.		3.00 104.28						
Borehole complete at 3.00 m bgl.								

<b>Remarks</b> 1. Engineer verified logged in general accordance to BS 5930:2015. 2. Area CAT scanned prior to excavation. 3. Borehole remained dry on completion. 4. Backfilled with arisings.	<b>Chiselling Details</b>		<b>Water Level Observations</b>				
	Depth (m)	Time	Date	Time	Water Strike (m)	Standing (m)	Casing Depth (m)
	NO CHISELLING UNDERTAKEN		NO WATER ENCOUNTERED				
	<b>Borehole Diameter</b>		<b>Casing Diameter</b>		<b>Depth Sealed</b>		

Description Of Strata	Legend	Strata Depth Reduced Level (Thickness)	Casing Depth (Dia. mm)	Core Recovery			Core Depth (Length)	Sample Details		Test Details		Backfill
				TCR%	SCR%	RQD%		Depth (m)	Type Ref	Depth (m)	Results	
MADE GROUND: Soft brown clay with sandstone cobbles - driller's description. (FILL)												
		(19.00)										

<b>Remarks:</b> 1. Engineer verified logged in general accordance to BS 5930:2015. 2. Area CAT scanned prior to excavation. 3. Groundwater encountered to 15.96 bgl. 4. Installed with a 63 mm HDPE standpipe to 30.00 m b.g.l. 5. Openhole drilled from surface to 20.50 m bgl.	<b>Flush Return</b>			<b>Water Level Observations</b>				
	Type	Depth (m)	Return	Date	Time	Water Strike (m)	Standing (m)	Casing Depth (m)
	<b>Borehole Diameter</b>			<b>Casing Diameter</b>		<b>Depth Sealed</b>		

**Rotary Core Borehole Log** Date From / To: **02/09/2015 - 03/09/2015** Client: **Delta-Simons**

Description Of Strata	Legend	Strata Depth Reduced Level (Thickness)	Casing Depth (Dia. mm)	Core Recovery			Core Depth (Length)	Sample Details		Test Details		Backfill
				TCR%	SCR%	RQD%		Depth (m)	Type Ref	Depth (m)	Results	
MADE GROUND: Soft brown clay with sandstone cobbles - driller's description. (FILL)(BH Continued)												
MADE GROUND: Brown sandstone gravel. Gravel is angular to rounded fine to medium - driller's description. (FILL)		19.00 86.83  (1.40)								19.20-19.65	SPT(C) N=17 5,3,4,4,5,4	
Strong massive orangish brown coarse grained clastic SANDSTONE. (NORTHAMPTON SAND FORMATION)		20.40 85.43 20.50 85.33					20.50-21.90	C 1				


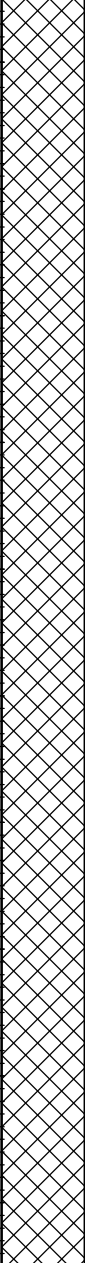
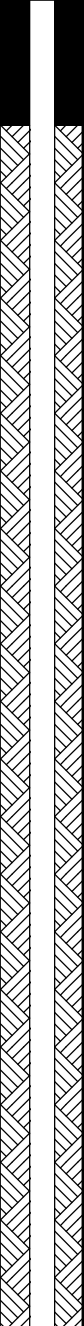
- Remarks:**
1. Engineer verified logged in general accordance to BS 5930:2015.
  2. Area CAT scanned prior to excavation.
  3. Groundwater encountered to 15.96 bgl.
  4. Installed with a 63 mm HDPE standpipe to 30.00 m b.g.l.
  5. Openhole drilled from surface to 20.50 m bgl.

Flush Return			Water Level Observations				
Type	Depth (m)	Return	Date	Time	Water Strike (m)	Standing (m)	Casing Depth (m)
Borehole Diameter		Casing Diameter		Depth Sealed			

**Rotary Core Borehole Log** Date From / To: **02/09/2015 - 03/09/2015** Client: **Delta-Simons**

Description Of Strata	Legend	Strata Depth Reduced Level (Thickness)	Casing Depth (Dia. mm)	Core Recovery			Core Depth (Length)	Sample Details		Test Details		Backfill
				TCR%	SCR%	RQD%		Depth (m)	Type Ref	Depth (m)	Results	
Extremely weak very to extremely closely fissured dark grey MUDSTONE. Fissures are irregularly orientated. Silt sized selenite crystals throughout. (WHITBY MUDSTONE FORMATION)(BH Continued)								21.90-23.30	C 2			
								23.30-23.80	OH1			
								23.80-24.50	OH2	23.80-24.25	SPT(C) N=50/245mm (5,10/12,15,17,6/20mm)	
								24.50-25.60	C 3			
								25.60-27.10	C 4			
								27.10-28.50	OH3			
								27.90-28.35			SPT(C) N=50/225mm (8,8/15,19,16,0/0mm)	
								28.50-30.00	C 5			
		(9.50)										
		30.00	75.83									
Borehole complete at 30.00 m bgl.												







<b>Remarks:</b> 1. Engineer verified logged in general accordance to BS 5930:2015. 2. Area CAT scanned prior to excavation. 3. Groundwater encountered to 15.96 bgl. 4. Installed with a 63 mm HDPE standpipe to 30.00 m b.g.l. 5. Openhole drilled from surface to 20.50 m bgl.	<b>Flush Return</b>			<b>Water Level Observations</b>				
	Type	Depth (m)	Return	Date	Time	Water Strike (m)	Standing (m)	Casing Depth (m)
	<b>Borehole Diameter</b>			<b>Casing Diameter</b>		<b>Depth Sealed</b>		

Description Of Strata	Legend	Strata Depth Reduced Level (Thickness)	Casing Depth (Dia. mm)	Core Recovery			Core Depth (Length)	Sample Details		Test Details		Backfill
				TCR%	SCR%	ROD%		Depth (m)	Type Ref	Depth (m)	Results	
MADE GROUND: Hardcore - drillers description. (FILL)		(0.50) 0.50 105.00										
MADE GROUND: Soft brown gravelly clay. Gravel is fine to coarse chalk - driller's description. (FILL)		(10.50)										

<b>Remarks:</b> 1. Engineer verified logged in general accordance to BS 5930:2015. 2. Area CAT scanned prior to excavation. 3. Groundwater encountered to 20.33 bgl. 4. Installed with a 63 mm HDPE standpipe to 30.00 m b.g.l. 5. Openhole drilled from surface to 20.30 m bgl.	Flush Return			Water Level Observations				
	Type	Depth (m)	Return	Date	Time	Water Strike (m)	Standing (m)	Casing Depth (m)
	Borehole Diameter			Casing Diameter		Depth Sealed		



**Rotary Core Borehole Log**

Description Of Strata	Legend	Strata Depth Reduced Level (Thickness)	Casing Depth (Dia. mm)	Core Recovery			Core Depth (Length)	Sample Details		Test Details		Backfill
				TCR%	SCR%	ROD%		Depth (m)	Type Ref	Depth (m)	Results	
MADE GROUND: Black soft gravelly clay. Gravel is sandstone with cobbles - driller's description. (FILL)		11.00 94.50										
		(7.00)										
MADE GROUND: Soft brown gravelly clay. Gravel is sandstone - driller's description. (FILL)		18.00 87.50										
		(2.30)										
		20.30 85.20					20.30-21.80	C 1	20.30-20.75	SPT(C) N=50/235mm (8,10/12,16,17,5/10m)		

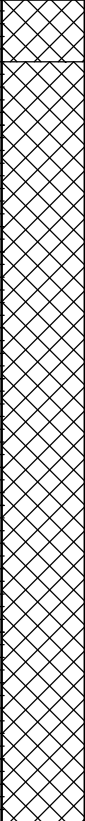
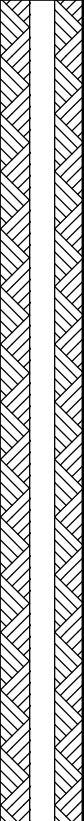
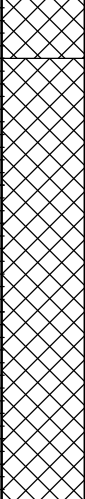
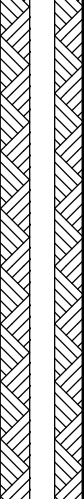
**Remarks:**

1. Engineer verified logged in general accordance to BS 5930:2015.
2. Area CAT scanned prior to excavation.
3. Groundwater encountered to 20.33 bgl.
4. Installed with a 63 mm HDPE standpipe to 30.00 m b.g.l.
5. Openhole drilled from surface to 20.30 m bgl.

Flush Return			Water Level Observations				
Type	Depth (m)	Return	Date	Time	Water Strike (m)	Standing (m)	Casing Depth (m)
Borehole Diameter		Casing Diameter		Depth Sealed			



Description Of Strata	Legend	Strata Depth Reduced Level (Thickness)	Casing Depth (Dia. mm)	Core Recovery			Core Depth (Length)	Sample Details		Test Details		Backfill
				TCR%	SCR%	RQD%		Depth (m)	Type Ref	Depth (m)	Results	
Extremely weak very to extremely closely fissured dark grey MUDSTONE. Fissures are irregularly orientated. Silt sized selenite crystals throughout. (WHITBY MUDSTONE FORMATION)(BH Continued)								21.80-28.30				
			(9.70)					28.30-29.80	C 2			
Borehole complete at 30.00 m bgl.		30.00 75.50										

<b>Remarks:</b> 1. Engineer verified logged in general accordance to BS 5930:2015. 2. Area CAT scanned prior to excavation. 3. Groundwater encountered to 20.33 bgl. 4. Installed with a 63 mm HDPE standpipe to 30.00 m b.g.l. 5. Openhole drilled from surface to 20.30 m bgl.	<b>Flush Return</b>			<b>Water Level Observations</b>				
	Type	Depth (m)	Return	Date	Time	Water Strike (m)	Standing (m)	Casing Depth (m)
	<b>Borehole Diameter</b>			<b>Casing Diameter</b>		<b>Depth Sealed</b>		

Description Of Strata	Legend	Strata Depth Reduced Level (Thickness)	Casing Depth (Dia. mm)	Core Recovery			Core Depth (Length)	Sample Details		Test Details		Backfill
				TCR%	SCR%	ROD%		Depth (m)	Type Ref	Depth (m)	Results	
MADE GROUND: Granite hard-core with fine to coarse gravels - driller's description. (FILL)		(0.50) 0.50 104.07										
MADE GROUND: Soft brown slightly gravelly clay. Gravel is rounded fine to medium chalk - driller's description. (FILL)		(6.00)										
MADE GROUND: Medium to coarse gravelly band. Possible sandstone gravel - driller's description. (FILL)		6.50 98.07										
MADE GROUND: Soft black/brown clay - driller's description. (FILL)		(0.50) 7.00 97.57										

<b>Remarks:</b> 1. Engineer verified logged in general accordance to BS 5930:2015. 2. Area CAT scanned prior to excavation. 3. Groundwater encountered to 18.62 bgl. 4. Installed with a 63 mm HDPE standpipe to 29.80 m b.g.l. 5. Openhole drilled from surface to 19.00 m bgl.	<b>Flush Return</b>			<b>Water Level Observations</b>				
	Type	Depth (m)	Return	Date	Time	Water Strike (m)	Standing (m)	Casing Depth (m)
	<b>Borehole Diameter</b>			<b>Casing Diameter</b>			<b>Depth Sealed</b>	

**Rotary Core Borehole Log** Date From / To: **01/09/2015 - 02/09/2015** Client: **Delta-Simons**

Description Of Strata	Legend	Strata Depth Reduced Level (Thickness)	Casing Depth (Dia. mm)	Core Recovery			Core Depth (Length)	Sample Details		Test Details		Backfill
				TCR%	SCR%	RQD%		Depth (m)	Type Ref	Depth (m)	Results	
MADE GROUND: Soft black/brown clay - driller's description. (FILL)(BH Continued)		(13.50)										
		20.50 84.07					19.00-20.40	C 1				
							20.40		20.40-22.00	C 2	20.40-21.40	
				96	58	88	(1.00)					

<b>Remarks:</b> 1. Engineer verified logged in general accordance to BS 5930:2015. 2. Area CAT scanned prior to excavation. 3. Groundwater encountered to 18.62 bgl. 4. Installed with a 63 mm HDPE standpipe to 29.80 m b.g.l. 5. Openhole drilled from surface to 19.00 m bgl.	<b>Flush Return</b>			<b>Water Level Observations</b>				
	Type	Depth (m)	Return	Date	Time	Water Strike (m)	Standing (m)	Casing Depth (m)
	<b>Borehole Diameter</b>			<b>Casing Diameter</b>		<b>Depth Sealed</b>		

**Rotary Core Borehole Log** Date From / To: **01/09/2015 - 02/09/2015** Client: **Delta-Simons**


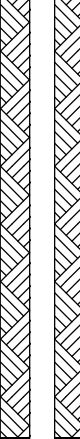
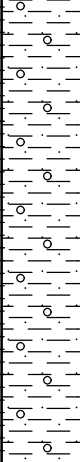
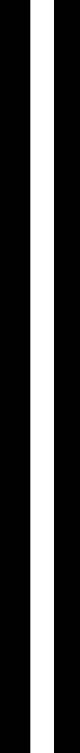




Description Of Strata	Legend	Strata Depth Reduced Level (Thickness)	Casing Depth (Dia. mm)	Core Recovery			Core Depth (Length)	Sample Details		Test Details		Backfill
				TCR%	SCR%	RQD%		Depth (m)	Type Ref	Depth (m)	Results	
Strong massive orangish brown coarse grained clastic SANDSTONE. (NORTHAMPTON SAND FORMATION)(BH Continued)	[Pattern]	(2.25)		96	58	88	21.40			21.40-22.40		[Pattern]
				98	92	92	(1.00)	22.00-23.30	C 3	22.40-23.30		
							22.40					
Extremely weak very to extremely closely fissured dark grey MUDSTONE. Fissures are irregularly orientated. Silt sized selenite crystals throughout. (WHITBY MUDSTONE FORMATION)	[Pattern]	22.75 81.82		92	92	50	(0.90)	23.30-24.90	C 4			[Pattern]
								24.90-26.40	C 5			
								26.40-27.20	C 6			
								27.20-28.30	C 7			
								28.30-29.80	C 8			
Borehole complete at 29.80 m bgl.		29.80 74.77										

<b>Remarks:</b> 1. Engineer verified logged in general accordance to BS 5930:2015. 2. Area CAT scanned prior to excavation. 3. Groundwater encountered to 18.62 bgl. 4. Installed with a 63 mm HDPE standpipe to 29.80 m b.g.l. 5. Openhole drilled from surface to 19.00 m bgl.	<b>Flush Return</b>			<b>Water Level Observations</b>				
	Type	Depth (m)	Return	Date	Time	Water Strike (m)	Standing (m)	Casing Depth (m)
	<b>Borehole Diameter</b>			<b>Casing Diameter</b>			<b>Depth Sealed</b>	

**Rotary Core Borehole Log** Date From / To: **03/09/2015 - 04/09/2015** Client: **Delta-Simons**

Description Of Strata	Legend	Strata Depth Reduced Level (Thickness)	Casing Depth (Dia. mm)	Core Recovery			Core Depth (Length)	Sample Details		Test Details		Backfill
				TCR%	SCR%	ROD%		Depth (m)	Type Ref	Depth (m)	Results	
Hardcore.		(0.50) 0.50 105.76										
MADE GROUND: Soft brown gravelly clay. Gravel is fine to coarse sandstone and chalk - driller's description. (FILL)		(9.50)										
MADE GROUND: Black very soft gravelly sandy clay - droiller's descriptin. (FILL)		10.00 96.26										

<b>Remarks:</b> 1. Engineer verified logged in general accordance to BS 5930:2015. 2. Area CAT scanned prior to excavation. 3. Groundwater encountered to 16.40 bgl. 4. Installed with a 63 mm HDPE standpipe to 29.80 m b.g.l. 5. Openhole drilled from surface to 19.50 m bgl.	Flush Return			Water Level Observations				
	Type	Depth (m)	Return	Date	Time	Water Strike (m)	Standing (m)	Casing Depth (m)
	Borehole Diameter			Casing Diameter		Depth Sealed		

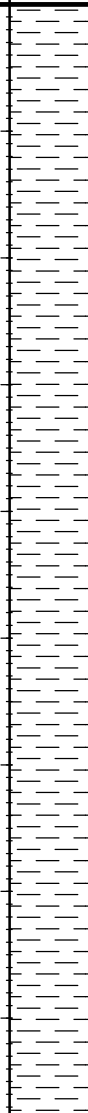

Description Of Strata	Legend	Strata Depth Reduced Level (Thickness)	Casing Depth (Dia. mm)	Core Recovery			Core Depth (Length)	Sample Details		Test Details		Backfill
				TCR%	SCR%	RQD%		Depth (m)	Type Ref	Depth (m)	Results	
MADE GROUND: Black very soft gravelly sandy clay - droiller's descriptin. (FILL)(BH Continued)		(6.00)										
MADE GROUND: Orange sandy gravelly clay. Gravel is fine to coarse sandstone - drillers description. (FILL)		16.00 90.26 (3.70)								17.70-18.15	SPT(C) N=15 4,4/3,4,4,4	
Strong massive orangish brown coarse grained clastic SANDSTONE. (NORTHAMTON SAND FORMATION)		19.70 86.56 (0.70)						19.50-20.50	C 1			
		20.40 85.86 (0.70)						20.50-22.10	C 2			

**Remarks:**

1. Engineer verified logged in general accordance to BS 5930:2015.
2. Area CAT scanned prior to excavation.
3. Groundwater encountered to 16.40 bgl.
4. Installed with a 63 mm HDPE standpipe to 29.80 m b.g.l.
5. Openhole drilled from surface to 19.50 m bgl.

Flush Return			Water Level Observations				
Type	Depth (m)	Return	Date	Time	Water Strike (m)	Standing (m)	Casing Depth (m)
Borehole Diameter			Casing Diameter		Depth Sealed		

**Rotary Core Borehole Log** Date From / To: **03/09/2015 - 04/09/2015** Client: **Delta-Simons**

Description Of Strata	Legend	Strata Depth Reduced Level (Thickness)	Casing Depth (Dia. mm)	Core Recovery			Core Depth (Length)	Sample Details		Test Details		Backfill
				TCR%	SCR%	RQD%		Depth (m)	Type Ref	Depth (m)	Results	
Extremely weak very to extremely closely fissured dark grey MUDSTONE. Fissures are irregularly orientated. Silt sized selenite crystals throughout. (WHITBY MUDSTONE FORMATION(BH Continued))		(9.40)						22.10-23.70	C 3		SPT(C) N=50 4.9,11,18,21,0	
								23.70-25.50	C 4			
								26.00-26.70	OH1			
								26.70-28.20	C 5			
								28.20-29.80	C 6			
Borehole complete at 29.80 m bgl.		29.80	76.46									

<b>Remarks:</b> 1. Engineer verified logged in general accordance to BS 5930:2015. 2. Area CAT scanned prior to excavation. 3. Groundwater encountered to 16.40 bgl. 4. Installed with a 63 mm HDPE standpipe to 29.80 m b.g.l. 5. Openhole drilled from surface to 19.50 m bgl.	<b>Flush Return</b>			<b>Water Level Observations</b>				
	Type	Depth (m)	Return	Date	Time	Water Strike (m)	Standing (m)	Casing Depth (m)
	<b>Borehole Diameter</b>			<b>Casing Diameter</b>			<b>Depth Sealed</b>	





**Southern Testing Laboratories**  
Keeble House  
Stuart Way  
East Grinstead  
West Sussex  
RH19 4QA

SPT Hammer Ref: SEDS1  
Test Date: 10/05/2015  
Report Date: 10/05/2015  
File Name: SEDS1.spt  
Test Operator: NPB

### Instrumented Rod Data

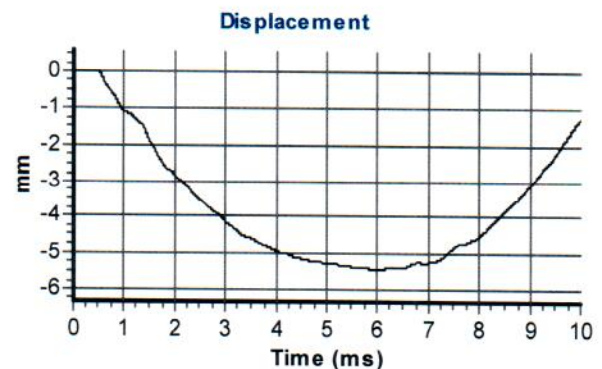
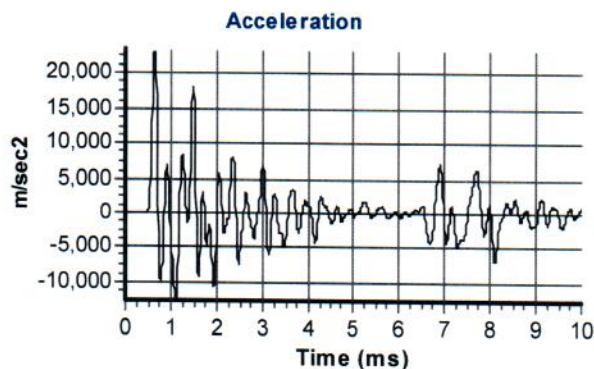
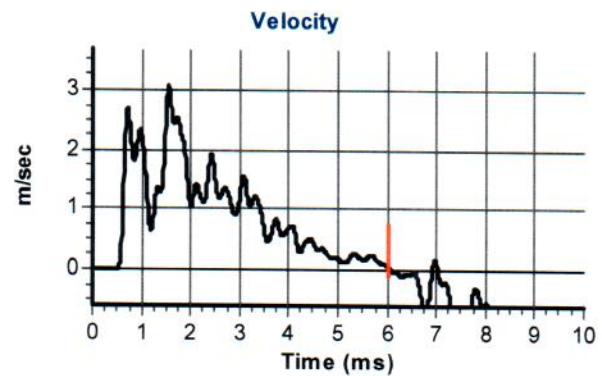
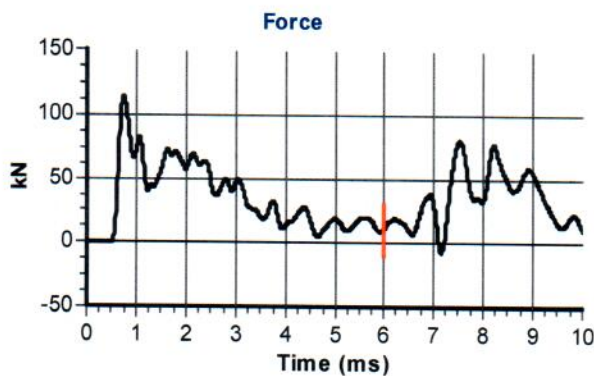
Diameter  $d_r$  (mm): 54  
Wall Thickness  $t_r$  (mm): 6.0  
Assumed Modulus  $E_a$  (GPa): 200  
Accelerometer No.1: 9607  
Accelerometer No.2: 6458

### SPT Hammer Information

Hammer Mass  $m$  (kg): 63.5  
Falling Height  $h$  (mm): 760  
SPT String Length  $L$  (m): 14.5

### Comments / Location

CHARLWOODS



### Calculations

Area of Rod A (mm<sup>2</sup>): 905  
Theoretical Energy  $E_{theor}$  (J): 473  
Measured Energy  $E_{meas}$  (J): 341

**Energy Ratio  $E_r$  (%):**

**72**



Signed: N P Burrows  
Title: Field Operations Manager

The recommended calibration interval is 12 months

**Southern Testing Laboratories**  
**Keeble House**  
**Stuart Way**  
**East Grinstead**  
**West Sussex**  
**RH19 4QA**

SPT Hammer Ref: SEDS02  
 Test Date: 10/05/2015  
 Report Date: 10/05/2015  
 File Name: SEDS02.spt  
 Test Operator: NPB

**Instrumented Rod Data**

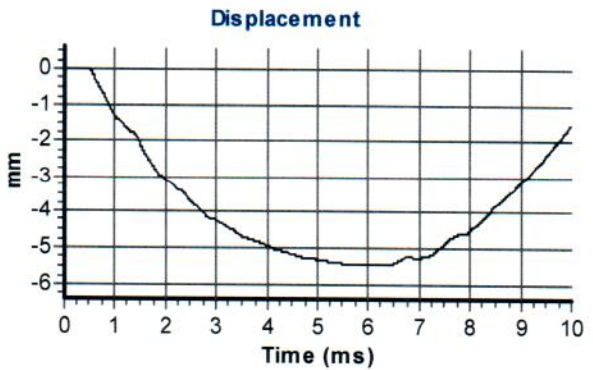
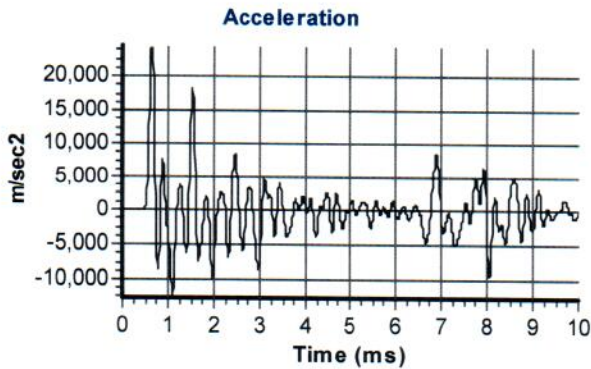
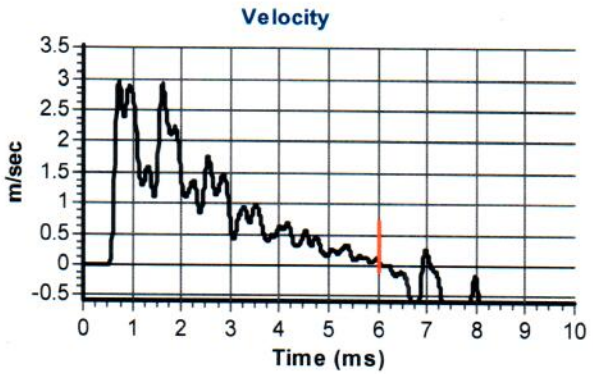
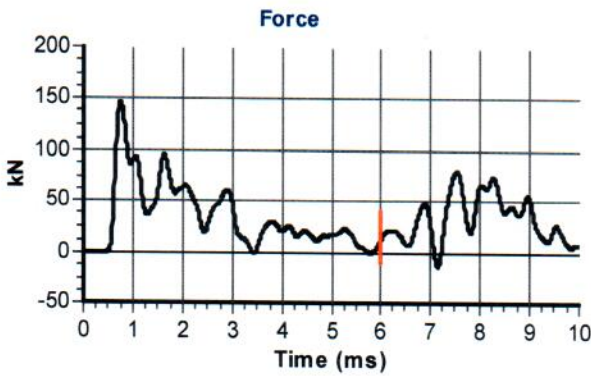
Diameter  $d_r$  (mm): 54  
 Wall Thickness  $t_r$  (mm): 6.0  
 Assumed Modulus  $E_a$  (GPa): 200  
 Accelerometer No.1: 9607  
 Accelerometer No.2: 6458

**SPT Hammer Information**

Hammer Mass  $m$  (kg): 63.5  
 Falling Height  $h$  (mm): 760  
 SPT String Length  $L$  (m): 14.5

**Comments / Location**

CHARLWOODS



**Calculations**

Area of Rod A (mm<sup>2</sup>): 905  
 Theoretical Energy  $E_{theor}$  (J): 473  
 Measured Energy  $E_{meas}$  (J): 344

**Energy Ratio  $E_r$  (%):** **73**



Signed: N P Burrows  
 Title: Field Operations Manager

The recommended calibration interval is 12 months

**Southern Testing Laboratories**  
**Keeble House**  
**Stuart Way**  
**East Grinstead**  
**West Sussex**  
**RH19 4QA**

SPT Hammer Ref: SEDS3  
 Test Date: 10/05/2015  
 Report Date: 10/05/2015  
 File Name: SEDS3.spt  
 Test Operator: NPB

### Instrumented Rod Data

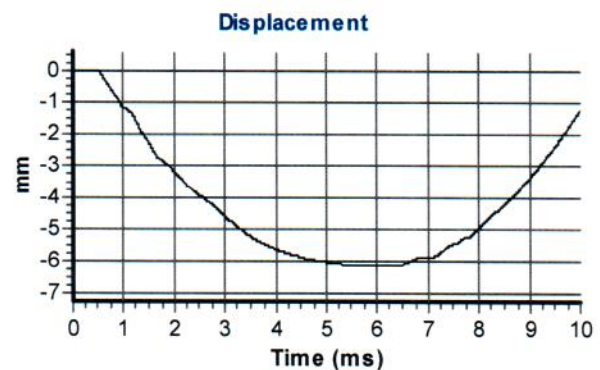
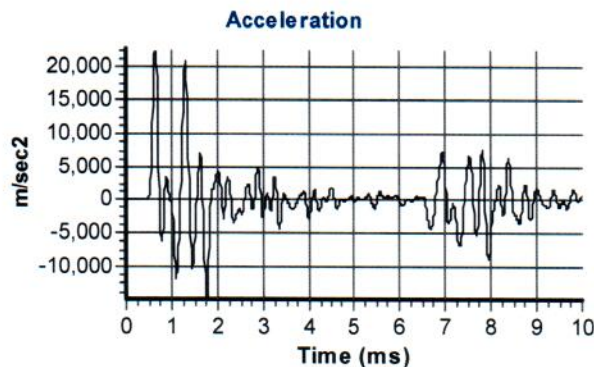
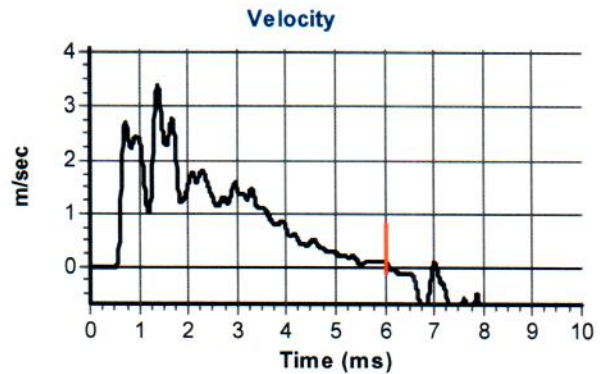
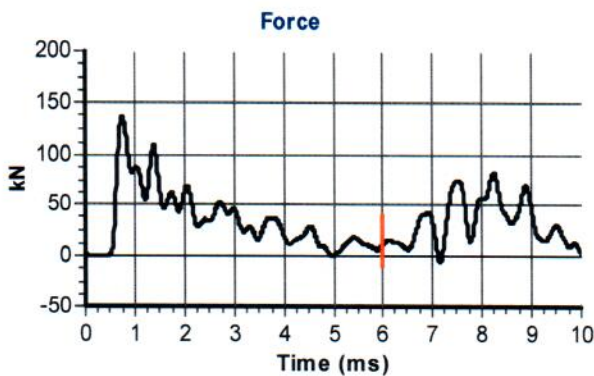
Diameter  $d_r$  (mm): 54  
 Wall Thickness  $t_r$  (mm): 6.0  
 Assumed Modulus  $E_a$  (GPa): 200  
 Accelerometer No.1: 9607  
 Accelerometer No.2: 6458

### SPT Hammer Information

Hammer Mass  $m$  (kg): 63.5  
 Falling Height  $h$  (mm): 760  
 SPT String Length  $L$  (m): 14.5

### Comments / Location

CHARLWOODS



### Calculations

Area of Rod A (mm<sup>2</sup>): 905  
 Theoretical Energy  $E_{theor}$  (J): 473  
 Measured Energy  $E_{meas}$  (J): 361

**Energy Ratio  $E_r$  (%):** 76



Signed: N P Burrows  
 Title: Field Operations Manager

The recommended calibration interval is 12 months

**Southern Testing Laboratories**  
Keeble House  
Stuart Way  
East Grinstead  
West Sussex  
RH19 4QA

SPT Hammer Ref: SEDS4  
Test Date: 10/05/2015  
Report Date: 10/05/2015  
File Name: SEDS4.spt  
Test Operator: NPB

### Instrumented Rod Data

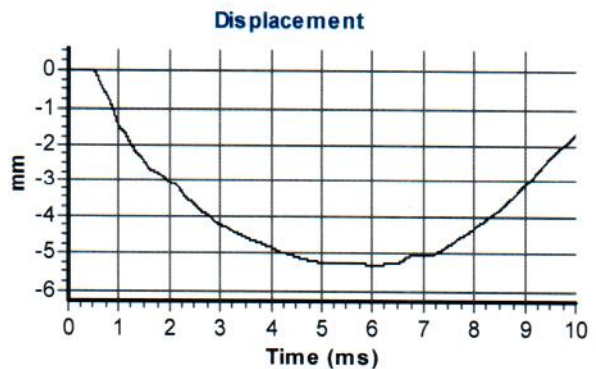
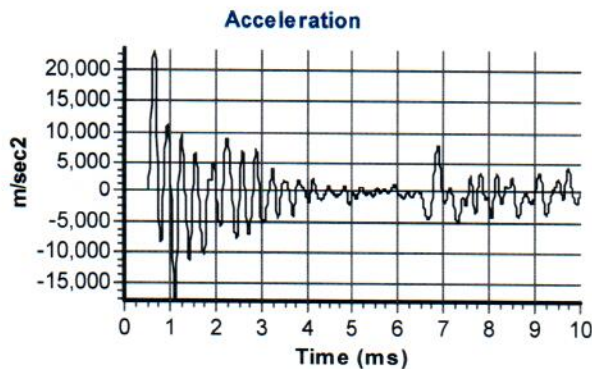
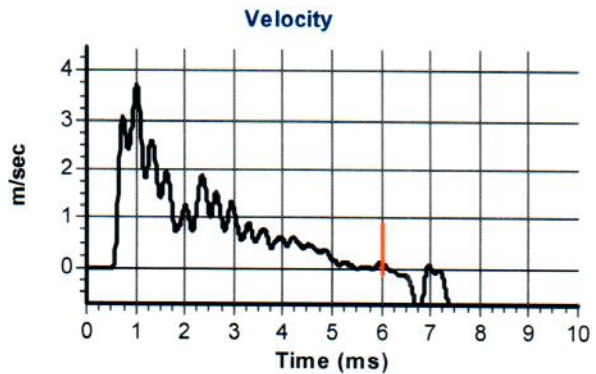
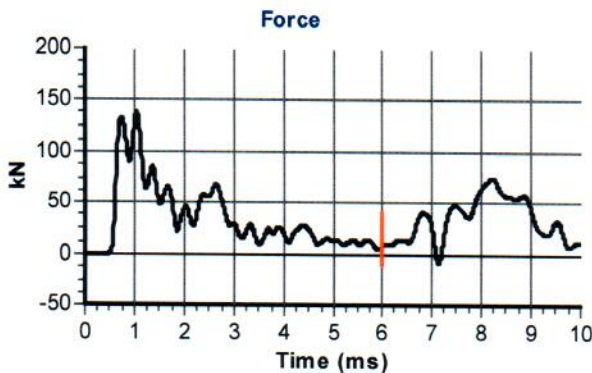
Diameter  $d_r$  (mm): 54  
Wall Thickness  $t_r$  (mm): 6.0  
Assumed Modulus  $E_a$  (GPa): 200  
Accelerometer No.1: 9607  
Accelerometer No.2: 6458

### SPT Hammer Information

Hammer Mass  $m$  (kg): 63.5  
Falling Height  $h$  (mm): 760  
SPT String Length  $L$  (m): 14.5

### Comments / Location


CHARLWOODS



### Calculations

Area of Rod A (mm<sup>2</sup>): 905  
Theoretical Energy  $E_{theor}$  (J): 473  
Measured Energy  $E_{meas}$  (J): 367

**Energy Ratio  $E_r$  (%):** 78

  
Signed: N P Burrows  
Title: Field Operations Manager

The recommended calibration interval is 12 months

**Southern Testing Laboratories**  
Keeble House  
Stuart Way  
East Grinstead  
West Sussex  
RH19 4QA

SPT Hammer Ref: SEDS5  
Test Date: 10/05/2015  
Report Date: 10/05/2015  
File Name: SEDS5.spt  
Test Operator: NPB

### Instrumented Rod Data

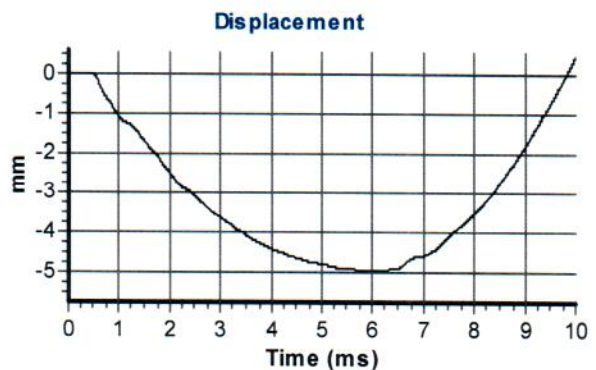
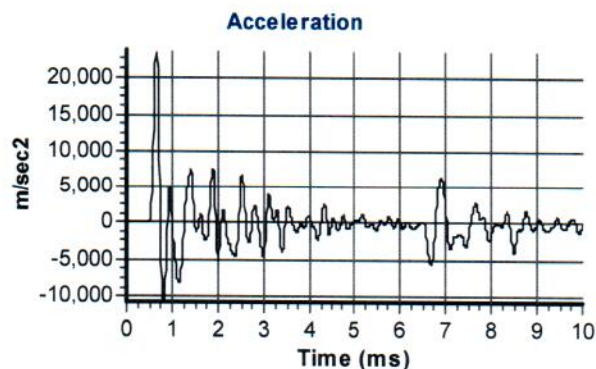
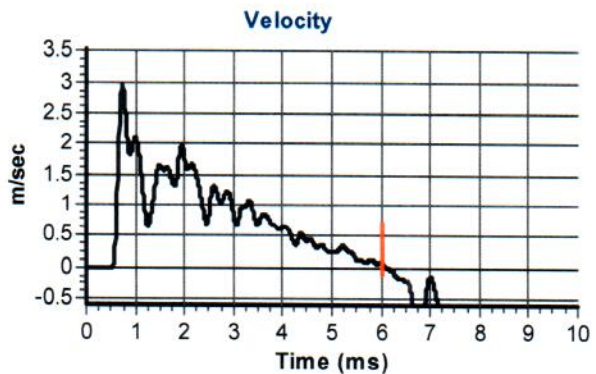
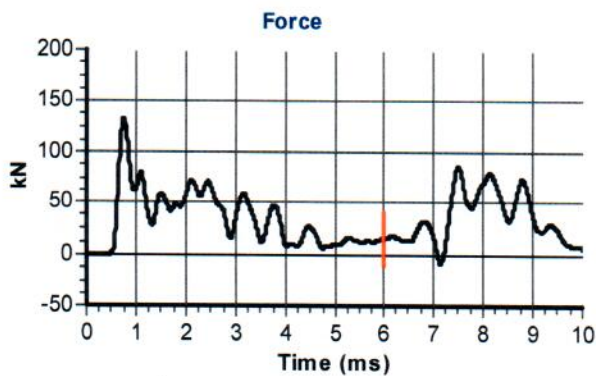
Diameter  $d_r$  (mm): 54  
Wall Thickness  $t_r$  (mm): 6.0  
Assumed Modulus  $E_a$  (GPa): 200  
Accelerometer No.1: 9607  
Accelerometer No.2: 6458

### SPT Hammer Information

Hammer Mass  $m$  (kg): 63.5  
Falling Height  $h$  (mm): 760  
SPT String Length  $L$  (m): 14.5

### Comments / Location

CHARLWOODS



### Calculations

Area of Rod A (mm<sup>2</sup>): 905  
Theoretical Energy  $E_{theor}$  (J): 473  
Measured Energy  $E_{meas}$  (J): 284

**Energy Ratio  $E_r$  (%):** 60



Signed: N P Burrows  
Title: Field Operations Manager

The recommended calibration interval is 12 months

**Southern Testing Laboratories**  
Keeble House  
Stuart Way  
East Grinstead  
West Sussex  
RH19 4QA

SPT Hammer Ref: SEDS6  
Test Date: 10/05/2015  
Report Date: 10/05/2015  
File Name: SEDS6.spt  
Test Operator: NPB

### Instrumented Rod Data

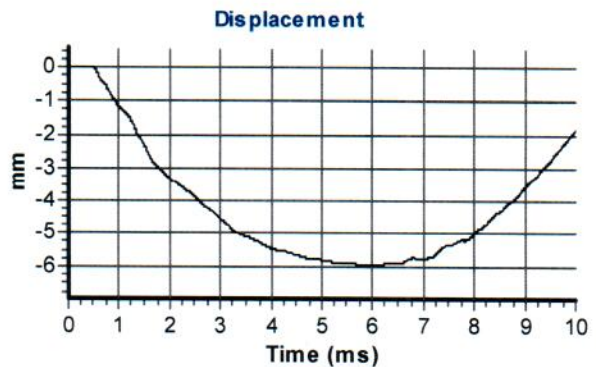
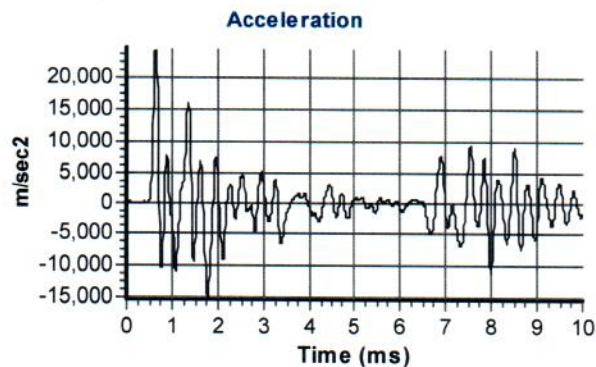
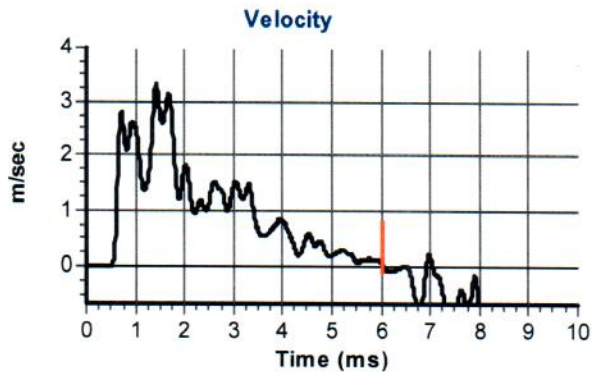
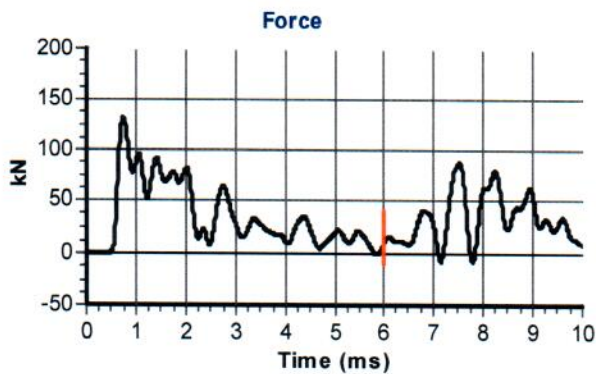
Diameter  $d_r$  (mm): 54  
Wall Thickness  $t_r$  (mm): 6.0  
Assumed Modulus  $E_a$  (GPa): 200  
Accelerometer No.1: 9607  
Accelerometer No.2: 6458

### SPT Hammer Information

Hammer Mass  $m$  (kg): 63.5  
Falling Height  $h$  (mm): 760  
SPT String Length  $L$  (m): 14.5

### Comments / Location

CHARLWOODS



### Calculations

Area of Rod A (mm<sup>2</sup>): 905  
Theoretical Energy  $E_{theor}$  (J): 473  
Measured Energy  $E_{meas}$  (J): 354

**Energy Ratio  $E_r$  (%):** **75**



Signed: N P Burrows  
Title: Field Operations Manager

The recommended calibration interval is 12 months

# SPT Calibration Report



www.equipegroup.com

## Hammer Energy Measurement Report

Type of Hammer: SPT HAMMER  
 Client: DELTA SIMONS  
 Test No: EQU1240  
 Test Depth (m): 6.70  
 Date of Test: 02 April 2015  
 Valid until: 01 April 2016  
 Hammer ID: DS001

Mass of the hammer  $m = 63.5\text{kg}$   
 Falling height  $h = 0.76\text{m}$   
 $E_{\text{theor}} = m \times g \times h = 473\text{J}$

### Characteristics of the instrumented rod

Diameter  $d_r = 0.052\text{ m}$   
 Length of the instrumented rod  $0.558\text{ m}$   
 Area  $A = 11.61\text{ cm}^2$   
 Modulus  $E_a = 206843\text{ MPa}$

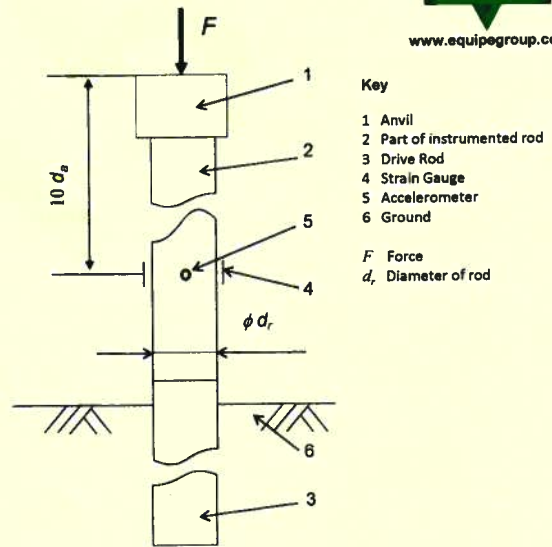
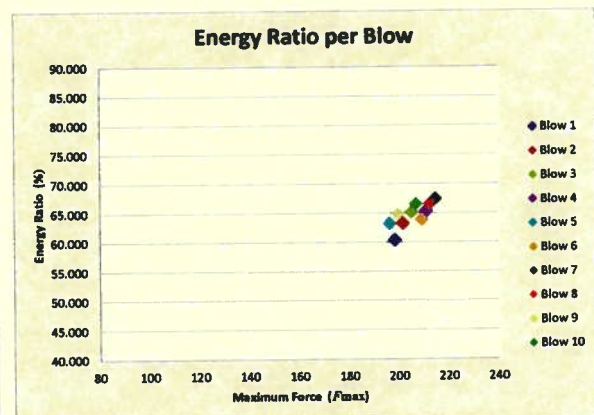
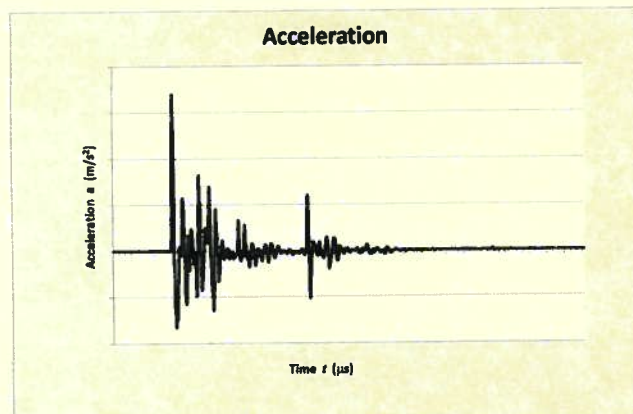
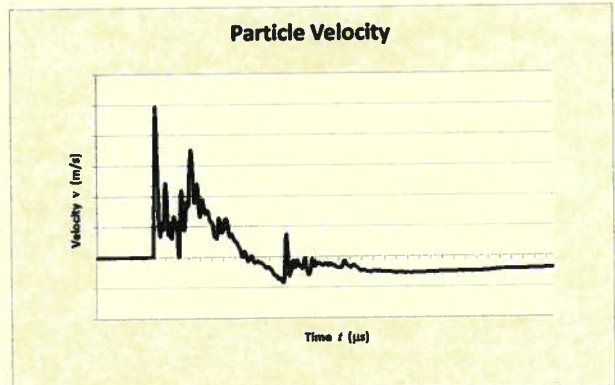


Fig. B.1 and B.2 BS EN ISO 22476-3 : 2005 + A1 : 2011



Observations:  
1.

$E_{\text{meas}} = 0.304\text{ kN-m}$   
 $E_{\text{theor}} = 0.473\text{ kN-m}$

Energy Ratio =  $\frac{E_{\text{meas}}}{E_{\text{theor}}} = 64.36\%$

Equipe SPT Analyzer Operators: KS  
 Prepared by: *[Signature]* Checked by: *[Signature]* Date: 08/04/2015







## GROUNDWATER AND GROUND GAS MONITORING RECORD SHEET

Sheet:

1 of 1

Project Name: Corby	Weather Conditions: 07/09 - Sunny, 14 degrees, wind at 5 m/s. 08/09 Overcast, occasional light rain, 13 degrees, wind at 3 m/s.	<b>Date:</b>
Project Number: 15-0645.02	Gas Kit Model: GA2000	<b>07/09/2015 - 08/09/2015</b>
Personnel: Stacey Ragsdale	Gas Kit Serial No:	

LOCATION	Flow Peak	Flow Steady	CH <sub>4</sub> Peak	CH <sub>4</sub> Steady	CO <sub>2</sub> Peak	CO <sub>2</sub> Steady	O <sub>2</sub> Min.	O <sub>2</sub> Steady	Atmospheric Pressure	PID	Well I.D.	Depth to Product (DTP)	Product Thickness	Depth to Water (DTW)	Depth to Base (DTB)	Height of Water Column	NOTES
	(L/hr)	(L/hr)	(%v/v)	(%v/v)	(%v/v)	(%v/v)	(%v/v)	(%v/v)	(mb)	(ppm)	(mm)	(m)	(m)	(m)	(m)	(m)	
DS104	<0.1	<0.1	<0.1	<0.1	0.1	0.1	20.2	20.2	1020	1.5				0.410	2.910	2.500	Very silty water
DS105	<0.1	<0.1	<0.1	<0.1	0.4	0.4	19.2	19.2	1021	4.2				0.290	3.000	2.710	Very silty water
DS107	<0.1	<0.1	0.5	0.5	1.6	1.6	17.2	17.2	1021	12.5				0.710	3.000	2.290	
DS107a	0.2	<0.1	<0.1	<0.1	0.6	0.6	18.1	18.1	1020	5.5				0.780	3.080	2.300	
DS101	<0.1	<0.1	<0.1	<0.1	0.3	0.3	18.8	18.8	1021	5.1				1.040	3.070	2.030	
DS109	0.1	<0.1	<0.1	<0.1	0.8	0.8	14.2	14.2	1021	9.3				2.200	3.020	0.820	Very silty water
DS113	<0.1	<0.1	<0.1	<0.1	0.7	0.7	14.3	14.3	1021	0.4				0.320	3.040	2.720	
DS114	<0.1	<0.1	<0.1	<0.1	0.6	0.6	15.7	15.7	1022	3.1				0.680	3.030	2.350	
DS116	0.2	<0.1	<0.1	<0.1	0.5	0.5	17.1	17.1	1022	0.5				0.710	3.020	2.310	
DS117	<0.1	<0.1	<0.1	<0.1	1.0	1.0	8.1	8.1	1022	13.4				1.820	2.930	1.110	
DS118	<0.1	<0.1	<0.1	<0.1	1.0	1.0	18.3	18.3	1021	4.8				0.960	3.020	2.060	
R3	<0.1	<0.1	<0.1	<0.1	0.1	0.1	19.9	19.9	1020	2.6				18.620	29.970	11.350	Very silty water
R1	0.2	<0.1	<0.1	<0.1	2.7	2.7	11.4	11.4	1020	1.5				15.960	30.030	14.070	Very silty water
BH106	<0.1	<0.1	<0.1	<0.1	0.1	0.1	3.7	3.7	1020	5.3				Dry	17.980	N/A	
BH107	<0.1	<0.1	0.9	0.9	1.6	1.6	5.8	5.8	1020	1.1				Dry	18.240	N/A	
BH104	<0.1	<0.1	<0.1	<0.1	0.1	0.1	19.6	19.6	1019	2.3				18.610	19.100	0.490	Very silty water
R4	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	20.0	20.0	1020	1.8				16.710	29.960	13.250	Very silty water
R2	0.2	0.2	<0.1	<0.1	4.9	4.9	4.0	4.0	1019	3.2				20.330	30.310	9.980	Very silty water
BH102	<0.1	<0.1	5.1	5.1	0.1	0.1	3.3	3.3	1019	2.7				14.620	15.320	0.700	Very silty water
BH101	<0.1	<0.1	<0.1	<0.1	0.1	0.1	18.1	18.1	1018	1.9				14.500	16.240	1.740	Very silty water

**GUIDE TO PURGING VOLUMES**

To calculate the number of litres to be purged from a well with a different diameter, use the formula $3\pi r^2 h$ (where $r$ = radius of the well and $h$ = height of the water column). Use the formula $\pi r^2 h$ to calculate the volume of a bailer. Please note that the standard bailers Delta-Simons use are typically 0.95 m in length.	Diameter of Casing (mm)	19	35	50	50	75	100
	Diameter of Bailer (mm)	18	19	19	38	38	38
	No. bails per m	4	12	22	6	13	23

Document No. C101 | Version: 4.0 | Issue Date: 13/01/12 | Author: C Ramsbottom | Authorised By: R Griffiths



## GROUNDWATER AND GROUND GAS MONITORING RECORD SHEET

Sheet:

1 of 1

Project Name: Corby	Weather Conditions: 16/09 - Sunny, 14 degrees, wind at 8 m/s.	<b>Date:</b>
Project Number: 15-0645.02	Gas Kit Model: GA2000	<b>16/09/2015</b>
Personnel: Stacey Ragsdale	Gas Kit Serial No:	

LOCATION	Flow Peak	Flow Steady	CH <sub>4</sub> Peak	CH <sub>4</sub> Steady	CO <sub>2</sub> Peak	CO <sub>2</sub> Steady	O <sub>2</sub> Min.	O <sub>2</sub> Steady	Atmospheric Pressure	PID	Well I.D.	Depth to Product (DTP)	Product Thickness	Depth to Water (DTW)	Depth to Base (DTB)	Height of Water Column	NOTES
	(L/hr)	(L/hr)	(%v/v)	(%v/v)	(%v/v)	(%v/v)	(%v/v)	(%v/v)	(mb)	(ppm)	(mm)	(m)	(m)	(m)	(m)	(m)	
DS104	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	20.4	20.4	1018					0.420	2.910	2.490	Very silty water
DS105	<0.1	<0.1	<0.1	<0.1	0.2	0.2	19.6	19.6	1018					0.310	3.000	2.690	Very silty water
DS107	<0.1	<0.1	0.4	0.4	1.2	1.2	18.3	18.3	1018					0.570	3.000	2.430	
DS107a	<0.1	<0.1	<0.1	<0.1	0.4	0.4	18.6	18.6	1018					0.800	3.080	2.280	
DS101	<0.1	<0.1	<0.1	<0.1	0.1	0.1	19.2	19.2	1018					1.140	3.070	1.930	
DS109	<0.1	<0.1	<0.1	<0.1	0.7	0.7	15.1	15.1	1019					2.250	3.020	0.770	Very silty water
DS113	<0.1	<0.1	<0.1	<0.1	0.5	0.5	15.2	15.2	1019					0.360	3.040	2.680	
DS114	<0.1	<0.1	<0.1	<0.1	0.6	0.6	15.9	15.9	1019					0.720	3.030	2.310	
DS116	<0.1	<0.1	<0.1	<0.1	0.3	0.3	17.9	17.9	1019					0.730	3.020	2.290	
DS117	<0.1	<0.1	<0.1	<0.1	0.8	0.8	9.9	9.9	1019					1.790	2.930	1.140	
DS118	<0.1	<0.1	<0.1	<0.1	1.1	1.1	18.3	18.3	1018					0.850	3.020	2.170	
R3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	20.3	20.3	1018					18.390	29.970	11.580	Very silty water
R1	<0.1	<0.1	<0.1	<0.1	2.6	2.6	12.1	12.1	1018					14.800	30.030	15.230	Very silty water
BH106	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	5.3	5.3	1018					Dry	17.980	N/A	
BH107	<0.1	<0.1	0.5	0.5	0.8	0.8	6.3	6.3	1018					Dry	18.240	N/A	
BH104	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	20.5	20.5	1018					18.440	19.100	0.660	Very silty water
R4	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	20.1	20.1	1018					16.570	29.960	13.390	Very silty water
R2	<0.1	<0.1	<0.1	<0.1	4.4	4.4	5.2	5.2	1018					20.120	30.310	10.190	Very silty water
BH102	<0.1	<0.1	4.7	4.7	<0.1	<0.1	3.8	3.8	1018					14.480	15.320	0.840	Very silty water
BH101	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	19.3	19.3	1018					14.350	16.240	1.890	Very silty water

**GUIDE TO PURGING VOLUMES**

To calculate the number of litres to be purged from a well with a different diameter, use the formula $3\pi r^2 h$ (where $r$ = radius of the well and $h$ = height of the water column). Use the formula $\pi r^2 h$ to calculate the volume of a bailer. Please note that the standard bailers Delta-Simons use are typically 0.95 m in length.	Diameter of Casing (mm)	19	35	50	50	75	100
	Diameter of Bailer (mm)	18	19	19	38	38	38
	No. bails per m	4	12	22	6	13	23



## GROUNDWATER AND GROUND GAS MONITORING RECORD SHEET

Sheet:

1 of 1

Project Name: Corby      Weather Conditions: 19°C Overcast, Slight Breeze

Date:

Project Number: 15-0645.02      Gas Kit Model: GAS KIT 4

24/09/2015

Personnel: Alex Cutts      Gas Kit Serial No: 11030

LOCATION	Flow Peak	Flow Steady	CH <sub>4</sub> Peak	CH <sub>4</sub> Steady	CO <sub>2</sub> Peak	CO <sub>2</sub> Steady	O <sub>2</sub> Min.	O <sub>2</sub> Steady	Atmospheric Pressure	PID	Well I.D.	Depth to Product (DTP)	Product Thickness	Depth to Water (DTW)	Depth to Base (DTB)	Height of Water Column	NOTES
	(L/hr)	(L/hr)	(%v/v)	(%v/v)	(%v/v)	(%v/v)	(%v/v)	(%v/v)	(mb)	(ppm)	(mm)	(m)	(m)	(m)	(m)	(m)	
DS104														0.400	2.910	2.510	Groundwater above standpipe. Unable to undertake gas monitoring due to groundwater height.
DS105														0.130	3.000	2.870	Groundwater above standpipe. Unable to undertake gas monitoring due to groundwater height.
DS107	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	20.4	20.4	1025	<0.1				0.160	3.000	2.840	
DS107a	<0.1	<0.1	<0.1	<0.1	0.1	0.1	18.6	18.6	1025	1.2				0.530	3.080	2.550	
DS101	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	20.3	20.3	1025	1.6				0.700	3.070	2.370	
DS109	<0.1	<0.1	<0.1	<0.1	0.3	0.3	15.0	15.0	1025	0.3				0.920	3.020	2.100	
DS113														0.120	3.040	2.920	Groundwater above standpipe. Unable to undertake gas monitoring due to groundwater height.
DS114														0.160	3.030	2.870	Groundwater above standpipe. Unable to undertake gas monitoring due to groundwater height.
DS116														0.120	3.020	2.900	Groundwater above standpipe. Unable to undertake gas monitoring due to groundwater height.
DS117														0.100	2.930	2.830	Groundwater above standpipe. Unable to undertake gas monitoring due to groundwater height.
DS118	<0.1	<0.1	<0.1	<0.1	0.7	0.7	19.5	19.5	1025	<0.1				0.290	3.020	2.730	
R3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	15.0	15.0	1025	3.7				18.630	29.970	11.340	
R1	<0.1	<0.1	<0.1	<0.1	1.5	1.5	11.0	11.0	1025	<0.1				15.740	30.030	14.290	
BH106	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	20.0	20.0	1025	<0.1				DRY	17.980	N/A	
BH107	<0.1	<0.1	0.7	0.7	1.2	1.2	3.4	3.4	1025	2.4				DRY	18.240	N/A	
BH104	<0.1	<0.1	<0.1	<0.1	0.1	0.1	17.5	17.5	1025	<0.1				18.910	19.100	N/A	Very silty water
R4	<0.1	<0.1	0.8	0.8	<0.1	<0.1	11.4	11.4	1025	1.5				18.610	29.960	11.350	
R2	<0.1	<0.1	<0.1	<0.1	0.5	0.5	18.2	18.2	1025	1.1				18.480	30.310	11.830	
BH102	<0.1	<0.1	10.4	10.4	<0.1	<0.1	8.7	8.7	1025	0.2				14.680	15.320	0.640	
BH101	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	20.6	20.7	1025	0.1				14.650	16.240	1.590	

**GUIDE TO PURGING VOLUMES**

To calculate the number of litres to be purged from a well with a different diameter, use the formula $3\pi r^2 h$ (where $r$ = radius of the well and $h$ = height of the water column). Use the formula $\pi r^2 h$ to calculate the volume of a bailer. Please note that the standard bailers Delta-Simons use are typically 0.95 m in length.	Diameter of Casing (mm)	19	35	50	50	75	100
	Diameter of Bailer (mm)	18	19	19	38	38	38
	No. bails per m	4	12	22	6	13	23

Document No. C101    Version: 4.0    Issue Date: 13/01/12    Author: C Ramsbottom    Authorised By: R Griffiths



## GROUNDWATER AND GROUND GAS MONITORING RECORD SHEET

Sheet:

1 of 1

Project Name: Corby      Weather Conditions: 15°C Sunny, slight breeze.

Date:

Project Number: 15-0645.02      Gas Kit Model: GAS KIT 4

29/09/2015

Personnel: Alex Cutts      Gas Kit Serial No: 11030

LOCATION	Flow Peak	Flow Steady	CH <sub>4</sub> Peak	CH <sub>4</sub> Steady	CO <sub>2</sub> Peak	CO <sub>2</sub> Steady	O <sub>2</sub> Min.	O <sub>2</sub> Steady	Atmospheric Pressure	PID	Well I.D.	Depth to Product (DTP)	Product Thickness	Depth to Water (DTW)	Depth to Base (DTB)	Height of Water Column	NOTES
	(L/hr)	(L/hr)	(%v/v)	(%v/v)	(%v/v)	(%v/v)	(%v/v)	(%v/v)	(mb)	(ppm)	(mm)	(m)	(m)	(m)	(m)	(m)	
DS104	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	20.7	20.7	1024	<0.1				0.440	2.910	2.470	
DS105	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	19.9	19.9	1024	<0.1				0.200	3.000	2.800	
DS107	<0.1	<0.1	0.2	0.2	0.3	0.3	20.1	20.1	1024	2.1				0.440	3.000	2.560	
DS107a	<0.1	<0.1	<0.1	<0.1	0.6	0.6	19.7	19.7	1024	0.3				0.330	3.080	2.750	
DS101	<0.1	<0.1	<0.1	<0.1	0.2	0.2	20.1	20.1	1024	1.3				0.460	3.070	2.610	
DS109	<0.1	<0.1	<0.1	<0.1	0.5	0.5	14.0	14.0	1024	0.4				0.910	3.020	2.110	
DS113														0.190	3.040	2.850	Groundwater above standpipe. Unable to undertake gas monitoring due to groundwater height.
DS114														0.130	3.030	2.900	Groundwater above standpipe. Unable to undertake gas monitoring due to groundwater height.
DS116														0.190	3.020	2.830	Groundwater above standpipe. Unable to undertake gas monitoring due to groundwater height.
DS117														0.200	2.930	2.730	Groundwater above standpipe. Unable to undertake gas monitoring due to groundwater height.
DS118	<0.1	<0.1	<0.1	<0.1	0.4	0.4	19.4	19.4	1024	1.0				0.290	3.020	2.730	
R3	<0.1	<0.1	<0.1	<0.1	0.1	0.1	14.0	14.0	1024	3.6				18.660	29.970	11.310	
R1	<0.1	<0.1	<0.1	<0.1	1.4	1.4	11.4	11.4	1024	<0.1				15.960	30.030	14.070	
BH106	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	20.0	20.0	1024	<0.1				DRY	17.980	N/A	
BH107	<0.1	<0.1	0.7	0.7	1.0	1.0	11.5	11.5	1024	2.4				DAMP	18.240	N/A	
BH104	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	20.8	20.8	1024	0.3				DAMP	19.100	N/A	
R4	<0.1	<0.1	0.8	0.8	<0.1	<0.1	9.5	9.5	1024	1.6				18.710	29.960	11.250	
R2	<0.1	<0.1	<0.1	<0.1	3.4	3.4	10.5	10.5	1024	1.2				19.350	30.310	10.960	
BH102	<0.1	0.0	6.9	6.8	<0.1	<0.1	6.7	6.7	1024	0.2				14.370	15.320	0.950	
BH101	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	20.6	20.7	1024	0.1				15.630	16.240	0.610	

**GUIDE TO PURGING VOLUMES**

To calculate the number of litres to be purged from a well with a different diameter, use the formula $3\pi r^2 h$ (where $r$ = radius of the well and $h$ = height of the water column). Use the formula $\pi r^2 h$ to calculate the volume of a bailer. Please note that the standard bailers Delta-Simons use are typically 0.95 m in length.	Diameter of Casing (mm)	19	35	50	50	75	100
	Diameter of Bailer (mm)	18	19	19	38	38	38
	No. bails per m	4	12	22	6	13	23

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**PROJECT: CORBY**

**STATIC CONE PENETRATION TESTING**

**FACTUAL REPORT**

**CLIENT: DELTA SIMONS**

**CONTRACT No.: DS25869**



Issue	Date	Description	Prepared	Checked	Approved
02	13/10/15	Final	RW	CD	DW

Date: 13 October 2015  
Our Ref: 1150281

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VAT No.: 922 3561 41

**Attention:** Mr Simon Steele

Dear Mr Steele

**STATIC CONE PENETRATION TESTING  
AT CORBY**

We have pleasure in providing a digital copy of our report and data in AGS format for the above project.

We hope that you are satisfied with the performance of our staff, equipment and reporting on this project. If you should have any queries about any aspect of the works carried out, please do not hesitate to contact us. We look forward to being of service to you in the future.

Yours faithfully,

**In Situ Site Investigation Limited**



Darren Ward  
Director



## Contents

1.0	INTRODUCTION.....	5
2.0	FIELDWORK.....	6
2.1	CPT RIG.....	6
2.2	CPTU CONE .....	6
2.3	TEST PROCEDURE .....	6
2.4	POSITIONING .....	7
3.0	CONE PENETRATION TEST RESULTS .....	8
3.1	ESTIMATED SOIL BEHAVIOUR TYPE PLOT (FORM CPT0001).....	8
3.1.1	Estimated Soil Behaviour Type .....	8
3.1.2	Friction Ratio ( $R_f$ ).....	9
3.1.3	Depth Correction .....	9
3.2	MEASURED PORE PRESSURE PLOT (CPT0002) .....	10
3.2.1	Pore Pressure Results ( $u_2$ ).....	10
3.2.2	Corrected Cone Resistance ( $q_t$ ) .....	10
3.2.3	Pore Pressure Ratio ( $B_q$ ).....	11
3.2.4	Soil Unit Weight.....	11
3.2.5	In Situ Pore Pressure .....	12
4.0	GEOTECHNICAL PARAMETERS .....	13
4.1	SOIL BEHAVIOUR TYPE INDEX.....	13
4.2	STANDARD PENETRATION TEST (SPT) N VALUE .....	14
4.3	SHEAR STRENGTH .....	15
4.4	RELATIVE DENSITY ( $D_r$ ).....	15
4.5	FRICITION ANGLE .....	16
4.6	FINES CONTENT ( $FC$ ) .....	17
5.0	REFERENCES.....	18
	APPENDIX A .....	20

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CONE DATASHEET .....	21
CONE CALIBRATION CERTIFICATE S15CFIP.1093 .....	22
CPT PROJECT SUMMARY SHEET .....	23
15 TONNE WHEEL MOUNTED CPT RIG DATA SHEET .....	24
SOIL DESCRIPTION TABLES .....	25
EXPLANATION OF SYMBOLS .....	26
APPENDIX B .....	27
APPENDIX C .....	62

## 1.0 INTRODUCTION

At the request of Delta Simons (The Client), In Situ Site Investigation Limited (In Situ S.I.) carried out a soils investigation at Corby.

The investigation consisted of performing Static Cone Penetration Tests (CPTs). All tests were performed at locations set out by the Client.

The fieldwork details are shown below in figure 1.1 and figure 1.2.

<b>Fieldwork Summary</b>	
CPT Rig Used	15 Tonne wheel mounted CPT rig CPT 008
Operators	Darren Ward and Tom Brodie
Date Started	02/09/2015
Date Finished	03/09/2015
In Situ S.I. Project Manager	Darren Ward
Main Contractor's Site Manager	Stacey Ragsdale

**Figure 1.1:** Table showing the fieldwork summary details.

<b>Completed Fieldwork Summary</b>
10 Static Cone Penetration Tests (CPTs) to a maximum depth of 25.15m or refusal. Each test measured Cone Resistance ( $q_c$ ), Sleeve friction ( $f_s$ ), Measured Pore Pressure in the shoulder position ( $u_2$ ), inclination in X and Y planes.
Provision of factual report with estimated soil type, geotechnical parameters and AGS data.

**Figure 1.2:** Table showing the completed fieldwork summary details.

## 2.0 FIELDWORK

### 2.1 CPT RIG

All works were performed with a 15 tonne CPT wheel mounted Rig. A full data sheet for this rig is presented in Appendix A.

### 2.2 CPTU CONE

A single electric CPTU cone was used S15CFIP.1093 of a type conforming to the requirements of Application Class 2 of ISO/ FDIS 22476-1 (2012). The cones measured parameters are shown in figure 1.2. The cone had a cross-sectional area of 10cm<sup>2</sup>. The piezo filter was mounted in the shoulder ( $u_2$ ) position (see figure 3.2). A full datasheet of the cone used is shown in Appendix A.

### 2.3 TEST PROCEDURE

The tests are carried out in accordance with the International Standard for electrical cone and piezocone penetration test (ISO/FDIS 22476-1 2012).

The final depths of the tests were determined by either completion to the specified test depth or when the maximum safe capacity of the equipment was reached. A schedule of the tests performed is shown in Appendix A which has been compiled from the operator's daily progress reports.

The data is transmitted from the digital CPTU through an umbilical cable that runs through the push rods to the data acquisition system.

The rate of penetration is kept constant at 2cm/s  $\pm$ 10% except when penetrating very dense or hard strata. A copy of the depth encoder calibration certificate is shown in Appendix A. Results are displayed instantaneously on the computer logging screen. The results are recorded on the computer hard disc.

Before each test is carried out zero values are taken of the cone to check to see if it is within calibration. At the end of each test, zero values are taken again to see if there has been any drift during the test. These values are inspected during the post processing stage. This is a quality check on the data and the testing procedure. Individual test zero values are shown on their corresponding test results on form CPT0001 in Appendix B.

---

## 2.4 POSITIONING

All positions were set out by the Client on site.

### 3.0 CONE PENETRATION TEST RESULTS

All tests carried with the CPTU cone are shown in Appendix B and displays all results as described in section 3.1 and 3.2. Two graphs are shown for each test. The first graph (form CPT0001 Estimated Soil Behaviour Type Plot) shows the measured readings from the cone and the estimated soil description, these are plotted at a 0-20MPa scale for the cone resistance. The second graph (form CPT0002 Measured Pore Pressure Plot) shows derived and corrected values along with the pore pressure results; these are plotted at a 0-80MPa scale for the cone resistance.

#### 3.1 ESTIMATED SOIL BEHAVIOUR TYPE PLOT (FORM CPT0001)

The estimated soil behaviour type plot presented in Appendix B details the following:

- Measured cone end resistance ( $q_c$ ) and sleeve friction ( $f_s$ );
- Friction ratio ( $R_f$ );
- Inclination, X and Y axis;
- Estimated behaviour soil type log (Robertson *et.al* 1986, friction ratio chart)
- Legend indicating soil log (BS5930:1999 legend)

##### 3.1.1 Estimated Soil Behaviour Type

The estimation of soil behaviour type using measurements of cone and friction is based upon the variation of the friction ratio in respect to the cone resistance. The friction ratio varies depending upon whether the soil is cohesive or granular. The cone resistance varies depending on the strength and densities of the soil.

The interpretation is based on Robertson *et. al.* (1986) (Friction ratio chart) which is shown below (figure 3.1).

The density and stiffness values descriptions are based on derived N60 (Robertson *et. al.* (1986)) and  $S_u$  (Lunne and Kleven (1981)) values from the cone resistance in accordance to BS5930:1999. A list of these values are presented in Appendix A.

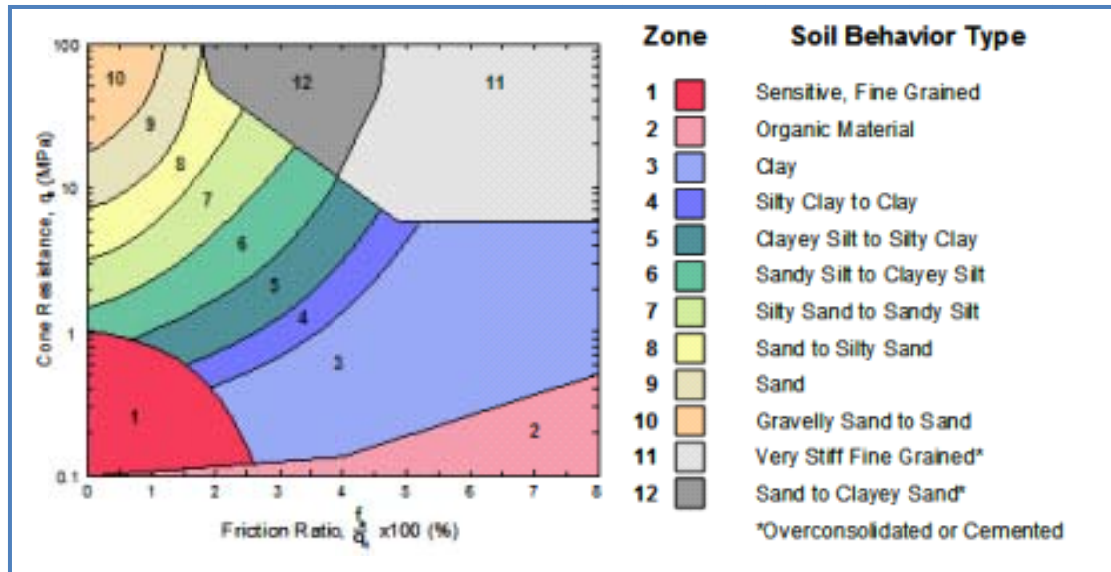


Figure 3.1: Robertson *et al.*, 1986 soil behaviour type chart.

### 3.1.2 Friction Ratio ( $R_f$ )

The friction ratio ( $R_f$ ) is the ratio between the sleeve friction and the cone resistance. This is a very useful parameter for carrying out soil interpretation

$$\text{Friction Ratio } (R_f) = \left( \frac{\text{Sleeve Friction } (f_s)}{\text{Tip Resistance } (q_c)} \right) \times 100 \text{ (Lunne } et al., 1997)$$

### 3.1.3 Depth Correction

All tests in the report have been corrected for depth difference caused by inclination. This has been calculated using the method described in the International Reference Test Procedure (2001).

To calculate the corrected depth the following formula is used:

$$z = \int_0^l C_h \cdot dl$$

where:

$z$  = penetration depth, in m;

$l$  = penetration length, in m;

$C_h$  = correction factor for the effect of the inclination of the CPTU relative to the vertical axis.

The equation for calculating the correction factor for the influence of the inclination for a bi-axial inclinometer is:

$$C_h = (1 + \tan^2 \alpha + \tan^2 \beta)^{-1/2}$$

### 3.2 MEASURED PORE PRESSURE PLOT (CPT0002)

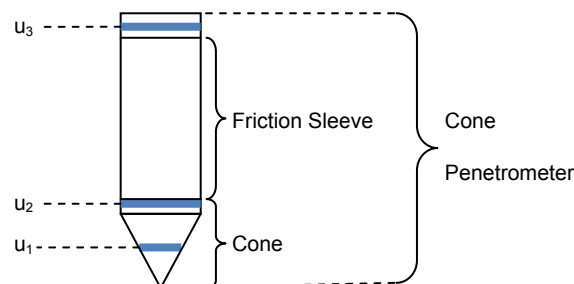
Behind each estimated soil type plots in Appendix B is a second plot showing the pore pressure results as well as corrected and derived parameters. These logs detail the following:

- Measured Pore pressure ( $u_2$ ),
- Corrected cone resistance ( $q_t$ );
- Pore pressure ratio ( $B_q$ )
- Sleeve friction ( $f_s$ )

#### 3.2.1 Pore Pressure Results ( $u_2$ )

The CPTU measured the pore pressure during penetration. If the material is free draining and saturation is maintained it will normally measure hydrostatic pore pressure. In material that is not free draining it will record the total pore pressure (hydrostatic plus any excess pore pressures generated) created by the cone penetrating through this material

The filter element can be mounted in one of three positions. For the tests carried out in this report the filter was mounted in the  $u_2$ , or shoulder position (see figure 3.2)



**Figure 3.2:** Diagram showing pore pressure filter locations (after Lunne *et al.*, 1997)

#### 3.2.2 Corrected Cone Resistance ( $q_t$ )

For each penetration test, the measured Cone Resistance,  $q_c$ , can be corrected for the 'unequal area effect' due to the influence of the ambient pore water pressure acting on the cone.

The corrections have been applied using the following equation:

$$q_t = q_c + [u_2 \cdot (1 - \alpha)] \text{ (Lunne } et al., 1997)$$

Where  $\alpha$  is the cone area ratio, which is **0.869** for the cone used on this project (This value is geometrically measured).



### 3.2.3 Pore Pressure Ratio ( $B_q$ )

Pore pressure ratio is the ratio between the measured pore pressure generated during penetration and the corrected cone resistance minus the total overburden stress.

Pore pressure ratio as defined by Senneset and Janbu (1985) is defined as:

$$B_q = \frac{u_2 - u_0}{q_t - \sigma_{vo}}$$

where:

$u_2$  = pore pressure measured between the cone and the friction sleeve

$u_0$  = equilibrium pore pressure

$\sigma_{vo}$  = total overburden stress

$q_t$  = cone resistance corrected for unequal end area effects

### 3.2.4 Soil Unit Weight

For calculations involving the total overburden stress, an estimate of the soil unit weight has to be made. For all calculations in this report, an approximate unit weight is assigned to each soil classification zone from the Robertson *et al.*, 1986 chart.

Figure 3.3 below lists the approximate unit weight for each zone from Lunne *et al.*, 1997.

Zone	Approximate unit weight (kN/m <sup>3</sup> )
1	17.5
2	12.5
3	17.5
4	18
5	18
6	18
7	18.5
8	19
9	19.5
10	20
11	20.5
12	19

**Figure 3.3:** Estimate of unit weights based on the Robertson *et al.*,(1986) friction ratio chart (Lunne *et al.*, 1997).

---

### 3.2.5 In Situ Pore Pressure

On the pore pressure plot is a second line (in red) showing the inferred in situ or hydrostatic pore pressure,  $u_0$ . This is calculated from a known or estimated water table level.

In the report, the water table has been inferred at 2m below ground level.

## 4.0 GEOTECHNICAL PARAMETERS

A number of empirical correlations can be carried out to derive geotechnical parameters from CPT data. This report includes a number of these parameters which are described in this section. For the CPT data only soil behaviour type, SPT values, shear strength and relative density are derived and are shown in Appendix C. For the CPTU data all the derived parameters described in the section are derived and displayed in Appendix C.

**Please note that a number of the correlations are derived for a certain type of soil, and may not be appropriate for all the soil types encountered on this project.**

### 4.1 SOIL BEHAVIOUR TYPE INDEX

The soil behaviour type index was derived by Jefferies and Davies (1991). It was created to allow a continuous variation of  $(q_c/p_a)/N_{60}$  with soil type, which was an improvement on the discontinuous nature of an earlier conversion by Robertson *et al.* (1986).

This approach has been modified for use with the Robertson (1990) normalised CPT soil classification chart. The boundaries between soil behaviour type zones (2 to 7) can be approximated as concentric circles, and the radius of each circle can be used as a soil behaviour type index (Lunne *et al.*, 1997).

The soil behaviour type index,  $I_c$ , can then be defined as:

$$I_c = ((3.47 - \log Q_t)^2 + (\log F_r + 1.22)^2)^{0.5}$$

The boundaries of soil behaviour type are then given in terms of the index,  $I_c$ . See figure 4.1 for the table of soil behaviour types.

Soil Behaviour Type Index, $I_c$	Zone (from Robertson 1990 normalised chart)	Soil Behaviour Type
$I_c < 1.31$	7	Gravelly sand to dense sand
$1.31 < I_c < 2.05$	6	Sands – clean sand to silty sand
$2.05 < I_c < 2.60$	5	Sand mixtures – silty sand to sandy silts
$2.60 < I_c < 2.95$	4	Silt mixtures – clayey silt to silty clay
$2.95 < I_c < 3.60$	3	Clays: silty clay to clay
$I_c > 3.60$	2	Organic soils - peats

**Figure 4.1:** Boundaries of soil behaviour type index,  $I_c$ .

## 4.2 STANDARD PENETRATION TEST (SPT) N VALUE

The SPT N value can be derived using differing ratios of the relationship between  $q_c$  and  $N_{60}$ . These ratios were suggested by Robertson *et al.* (1986) and are shown in figure 4.2.

Zone	Soil Behaviour Type	$(q_c/p_a)/N_{60}$
1	Sensitive fine grained	2
2	Organic material	1
3	CLAY	1
4	Silty CLAY to CLAY	1.5
5	Clayey SILT to silty CLAY	2
6	Sandy SILT to clayey SILT	2.5
7	Silty SAND to sandy SILT	3
8	SAND to silty SAND	4
9	SAND	5
10	Gravelly SAND to SAND	6
11	Very stiff fine grained	1
12	SAND to clayey SAND	2

**Figure 4.2:** SPT N value ratios from Robertson *et al.*, 1986.

For the best results for the calculation of  $N_{60}$  it is recommended to use the soil behaviour type index,  $I_c$ . This is the method used in this report.

The relationship between  $N_{60}$  and  $I_c$  is defined as:

$$\frac{\left(\frac{q_c}{pa}\right)}{N_{60}} = 8.5 \left(1 - \frac{I_c}{4.6}\right) \text{ (Lunne } et al., 1997)$$

It is suggested (Jefferies and Davies, 1991) that this method provides a better estimate of the SPT N values than the actual SPT test due to poor repeatability of the SPT.

### 4.3 SHEAR STRENGTH

Estimation of  $s_u$  from CPTUs using corrected cone resistance is made from the following equation:

$$s_u = \frac{(q_t - \sigma_{vo})}{N_{kt}} \text{ (Lunne } et al., 1981)$$

where:

$N_{kt}$  = empirical cone factor  
 $\sigma_{vo}$  = total overburden stress.

Research has shown that the cone factor  $N_{kt}$  varies between 11 and 30 with an average value of 15. We present an upper bound  $s_u$  value with an  $N_{kt}$  value of 15 and a lower bound  $s_u$  value with an  $N_{kt}$  value of 20. This report only presents this data on soils with a soil behaviour type index ( $I_c$ ) of greater than 2.60.

### 4.4 RELATIVE DENSITY ( $D_r$ )

Relative density has been derived using a method by Jamiolkowski *et al.*, 1985 (see figure 4.3). This correlation was derived from five predominantly silica sands under controlled laboratory conditions. The sands were normally consolidated, un-cemented, un-aged and predominantly quartz. It is noted that field cases are likely to show more variability than that demonstrated in figure 4.3.

The correlation in this report is calculated on soil with a soil behaviour type index ( $I_r$ ) of less than 2.60. The formula for calculating relative density ( $D_r$ ) is:

$$D_r = -98 + 66 \log_{10} \frac{q_c}{[\sigma'_{vo}]^{0.5}}$$

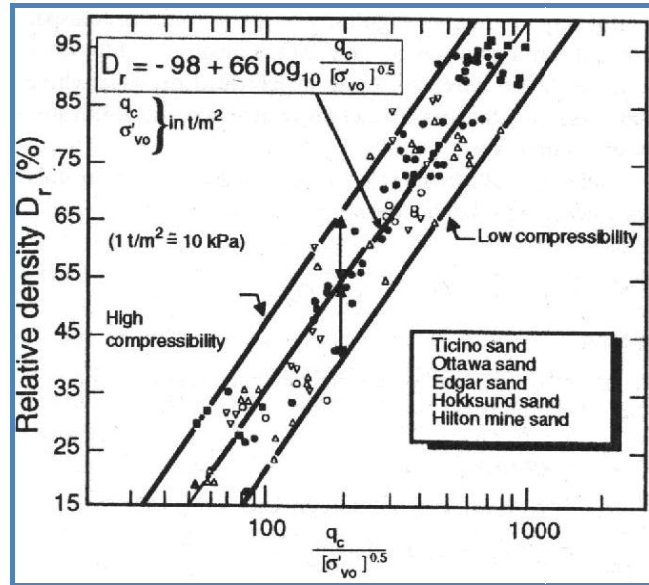


Figure 4.3: Correlation between  $q_c$  and relative density (after Jamiolkowski *et al.*, 1985)

#### 4.5 FRICTION ANGLE

Friction angle is derived using the Robertson and Campanella (1983) method from their work looking at calibration test data (see figure 4.6). The correlation is based on un-aged un-cemented quartz sand. The formula for peak  $\Phi'$  from CPTU is:

$$\Phi' = \arctan \left[ 0.1 + 0.38 \log \left( \frac{q_t}{\sigma_{vo}} \right) \right]$$

The correlation in this report is calculated on soil with a soil behaviour type index ( $I_c$ ) of less than 2.60.

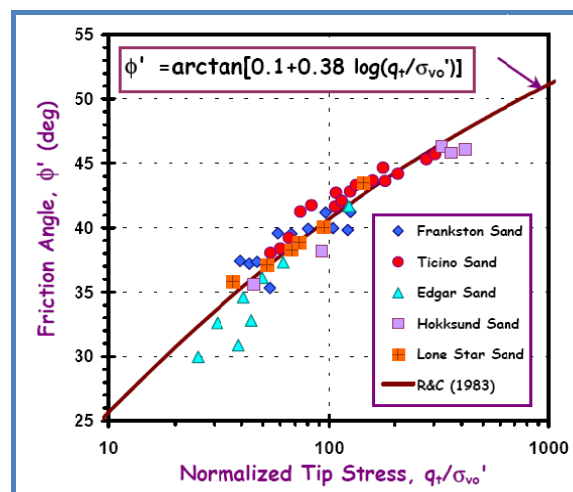
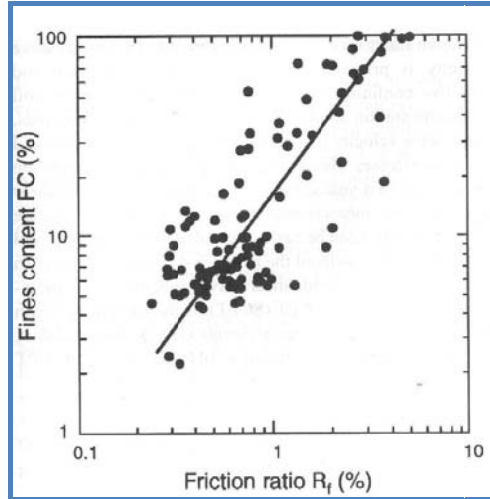


Figure 4.6: Peak friction angle of clean quartz sands from CPTU (after Robertson & Campanella, 1983).

#### 4.6 FINES CONTENT (FC)

It is possible to estimate fines content from the friction ratio of sandy soils. Suzuki *et al.*, (1995) demonstrated how friction ratio ( $R_f$ ) varies with fines content (FC) (see figure 4.7)



**Figure 4.7:** Variation of fines content with friction ratio (Suzuki *et al.*, 1995)

Robertson and Fear (1995) used this relationship and integrated it with the soil behaviour type index ( $I_c$ ), this was later updated in 1998. This relationship is shown below:

$$\text{if } I_c < 1.26 \text{ apparent fines content FC (\%)} = 0$$

$$\text{if } 1.26 \leq I_c \leq 3.5 \text{ apparent fines content FC (\%)} = 1.75 I_c^3 - 3.7$$

$$\text{if } I_c > 3.5 \text{ apparent fines content FC (\%)} = 100$$

## 5.0 REFERENCES

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## APPENDIX A

### GENERAL INFORMATION

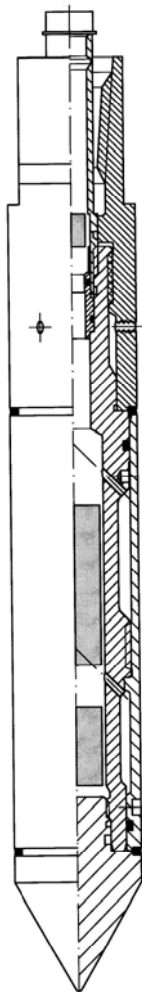
#### LIST OF FIGURES

Description	Pages Included
Cone Datasheet	1
Cone Calibration Certificate S15CFIP.1093	1
CPT Project Summary Sheet	1
15 Tonne Wheel Mounted Rig Datasheet	1
CPT Soil Description Table	1
Explanation of Symbols	1

**CONE DATASHEET**



Rijksstraatweg 22F  
2171 AL Sassenheim  
Tel. : +31 71 301 92 51  
Fax : +31 71 301 92 52  
E-mail : info@geopoint.nl  
ING bank: 68.23.01.396  
Postbank: 5226758  
BTW nr. : NL806331677801



**SPECIFICATIONS**  
**S15 SERIES**  
**ELECTRICAL CONES**

The electronic subtraction cones have been developed to address the durability problems inherent in other cone designs. The unit consists of a single element temperature compensated strain gauge transducer for measuring both cone resistance and local sleeve friction. This design is therefore more robust than a compression type cone. The cone support electronics package is located directly behind the transducer. The precision strain gauge amplifiers and power supply eliminate the effects of cable resistance on the measurements. A standard subtraction cone is capable of measuring simultaneously the following channels: Tip, Local friction, Pore pressure, Temperature and Inclination.

**GENERAL SPECIFICATIONS**

Cone Tip Section Area	1,500 mm <sup>2</sup>
Friction Sleeve Surface	22,500 mm <sup>2</sup>
Total Length	325 mm
Weight	4200 g
Power Supply	± 15 VDC, 100 mA.
Output	0 – 10 VDC*
Working Temperature	0 - 60°C
Storage Temperature	- 40 to + 85°C
Connector	Lemo 10 pins (others on request)

**TIP RESISTANCE**

Range	100/150* kN
Accuracy	0.25 % FS
Maximum Load	150 % of range
Cone Area Ratio	0.75

**LOCAL SLEEVE FRICTION**

Range	100/150* kN
Accuracy	0.50 % FS
Maximum Load	150 %
Sleeve Area Ratio	1.0 (EA)

**PORE PRESSURE**

Range	1/2/5/10* MPa
Accuracy	0.5 % FS
Maximum Load	150 % of range

**INCLINATION**

Range	25 ° (biaxial)
Accuracy	< 2 °

All our equipment complies with the ISSMGE, ASTM, DIN and NEN Standards.

*\*Other output and voltage ranges available on request. Loadcells may be calibrated for lower ranges.*

**CONE CALIBRATION CERTIFICATE S15CFIP.1093**

Sondeerapparatuur



Rijksstraatweg 22F  
2171 AL Sassenheim  
Tel. : +31 71 301 92 51  
Fax : +31 71 301 92 52  
E-mail : info@geopoint.nl  
BTW : NL814690178.801  
IBAN : NL28 INGB0682301396  
BIC : INGBNL2A

**Cone Calibration Certificate**

**Certificate:**  
Instrument Type: Electric Subtraction Cone  
Model: S15-CFIIP  
Serial number: 1093  
Calibration date: 20-08-2015  
Client: Insitu  
A. Verhart

**Calibrated by:**  
**Calibration instruments**  
Manufacturer: Hottinger Baldwin Messtechnik GmbH  
HBM certificate no.: 49046

**Calibration conditions**  
Ambient temperature: 21.3 °C  
Atmospheric pressure: 1023 mBar

**Cone specifications**  
Cone base area: 1500 mm<sup>2</sup>  
Load tip resistance (nom.): 100 kN  
Friction sleeve area: 22500 mm<sup>2</sup>  
Load tip + local friction (nom.): 100 kN  
Load friction sleeve (nom.): 22.5 kN  
Load pore pressure (nom.): 2 MPa  
Inclination (nom.): +/- 20 °  
Temperature compensation (all channels): 0...+40 °C  
Maximum overload capacity (all channels): 100 %  
Cone area ratio (a): 0.79  
Max. Inaccuracy, relative to measurement value: 1.0 %

Zero points:	Tip:		Sleeve:		Pore Pressure:		Inclinometer:		
	qc in kN	mV	fs in kN	mV	MPa	mV	Degrees	X (mV)	Y (mV)
	0	0262	0	0288	0	0235	0	2445	2301
	5	0302	5	0311	0.4	1369	-20	0440	0472
	10	0608	10	0624	0.8	2730	20	4482	3849
	15	0915	15	0939	1.2	4085			
	20	1219	20	1252	1.6	5434			
	25	1527	25	1567	2.0	6776			
	30	1832	30	1881					
	35	2138	35	2195					
	40	2445	40	2509					
	45	2749	45	2821					
	50	3053	50	3133					
	75	4564	75	4685					
	100	6071	100	6232					

Max. error, abs. qc: 35 kPa  
Max. error, abs. fs: 2 kPa  
Max. error, abs. u2: 10 kPa  
Max. error, abs. l: 1 °

This calibration is compliant with GeoPoint Systems internal quality system, internal calibration procedures and meets the requirements of NEN2649, NEN5140, NORSOK G-001, ISSMFE and ASTM using calibration equipment traceable to (Inter-) National Standards.

Approved by: B. van Eijk  
Date: 20-08-2015

www.geopoint.nl  
www.geopoint.e

Ingeschreven in het handelsregister van de K.v.K. voor Rijnland onder nummer 28106251.  
Op al onze leveranties en/of overeenkomsten zijn de algemene verkoopvoorwaarden van Geopoint Systems B.V. van toepassing.

**CPT PROJECT SUMMARY SHEET**

<b>HOLE</b>	<b>Final Depth of Test (m)</b>	<b>Date of Test</b>	<b>Cone Used</b>	<b>Test Remarks</b>
CPT 101	17.08	02/09/2015	S15CFIP.1093	Test Refused on Total Pressure
CPT 102	16.41	02/09/2015	S15CFIP.1093	Test Refused on Total Pressure
CPT 103	22.16	02/09/2015	S15CFIP.1093	Test Reached maximum equipment depth. (22m of rods)
CPT 104	14.19	02/09/2015	S15CFIP.1093	Test Refused on Total Pressure
CPT 105	19.68	02/09/2015	S15CFIP.1093	Test Refused on Total Pressure
CPT 106	16.72	02/09/2015	S15CFIP.1093	Test Refused on Total Pressure
CPT 107	1.00	03/09/2015	S15CFIP.1093	Test Refused on Total Pressure
CPT 107A	15.95	03/09/2015	S15CFIP.1093	Test Refused on Total Pressure
CPT 108	25.15	03/09/2015	S15CFIP.1093	Test Refused on Total Pressure
CPT 109	14.16	03/09/2015	S15CFIP.1093	Test Refused on Total Pressure

## 15 TONNE WHEEL MOUNTED CPT RIG DATA SHEET

### RIGS

#### 15 TONNE CPT WHEEL MOUNTED RIG (CPT 008)

In Situ has a wide range of rigs which meet the clients varied CPT requirements often in difficult terrains. Projects may require CPT testing in areas which range from motorways to rugged mountainous terrain, to offshore work; the access to the projects may often be restricted for manoeuvring.

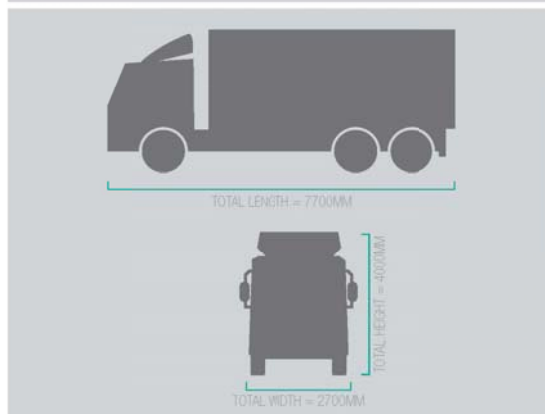
In Situ has rigs to meet all clients needs and situations .

#### CPT RIG DETAILS

DRIVE SYSTEM	6 X 4 WHEEL DRIVE
TOTAL WEIGHT	15 TONNES
GROUND BEARING PRESSURE	75KPA
CPT RAM THRUST CAPACITY	15 TONNES
MAXIMUM PENETRATION	30-40M DEPENDING ON THE GROUND CONDITIONS.
PERFORMANCE RATES	100-150M OF TESTING IN A DAY DEPENDING ON ACCESS TO POSITIONS.
TYPICAL SITES FOR THIS RIG	HARD STANDING SITES, E.G. ROADS, CAR PARKS, DRY NON HARD STANDING SITES.



#### CPT RIG DIMENSIONS



## SOIL DESCRIPTION TABLES

### GRANULAR SOILS (Sands and Gravels)

Description	Cone Resistance ( $q_c$ ) (MPa)
Very Loose	0 – 2
Loose	2 – 4
Medium Dense	4 – 12
Dense	12 – 20
Very Dense	>20

### COHESIVE SOILS (Clays)

Description	Cone Resistance ( $q_c$ ) (MPa)	Equivalent $S_u$ value from $q_c$ (kPa)
Very Soft	0 – 0.3	0 – 20
Soft	0.3 – 0.5	20 – 40
Firm	0.5 – 1.0	40 – 75
Stiff	1.0 – 2.0	75 – 150
Very stiff	2.0-4.0	150-300
Hard	>4.0	>300

(from Waltham, 2002)

## EXPLANATION OF SYMBOLS

- $a$  ( $\alpha$ ) = area ratio of the cone ( $=A_n/A_c$ )
- $A_c$  = projected area of the cone
- $A_n$  = cross-sectional area of shaft
- $B_q$  = pore pressure parameter ( $=(u_2-u_0)/(q_f-\sigma_{vo})$ )
- $c_h$  = horizontal coefficient of consolidation
- $Dr$  = relative density  $\left( D_r = \frac{e_{max} - e}{e_{max} - e_{min}} \times 100\% \right)$
- $e$  = void ratio
- $e_o$  = initial void ratio
- $e_{max}$  = maximum void ratio
- $e_{min}$  = minimum void ratio
- $f_s$  = unit sleeve friction
- $FC$  = fines content
- $I_c$  = soil behaviour type index
- $I_r$  = rigidity index =  $G/s_u$
- $m_v$  = coefficient of volume change
- $M$  = constrained deformation modulus
- $N$  = no. Of blows in the SPT
- $N_k$  or  $N_{kt}$  = cone factor
- $N_{60}$  = SPT energy ratio
- $q_c$  = measured cone resistance
- $q_e$  = effective cone resistance =  $(q_f-u_2)$
- $q_n$  = net cone resistance =  $(q_f-\sigma_{vo})$
- $q_t$  = corrected cone resistance =  $q_c+(1-a)u_2$
- $Q_t$  = normalised cone resistance =  $(q_f-\sigma_{vo})/\sigma'_{vo}$
- $R_f$  = friction ratio ( $=(f_s/q_c)\times 100\%$ )
- $s_u$  = undrained shear strength
- $t_{50}$  = time for 50% dissipation of measured pore pressure
- $u_0$  = in situ pore pressure
- $u_1$  = pore pressure measured on the cone
- $u_2$  = pore pressure measured behind the cone
- $\Delta u$  = measured pore water pressure
- $\varphi$  = total friction ratio

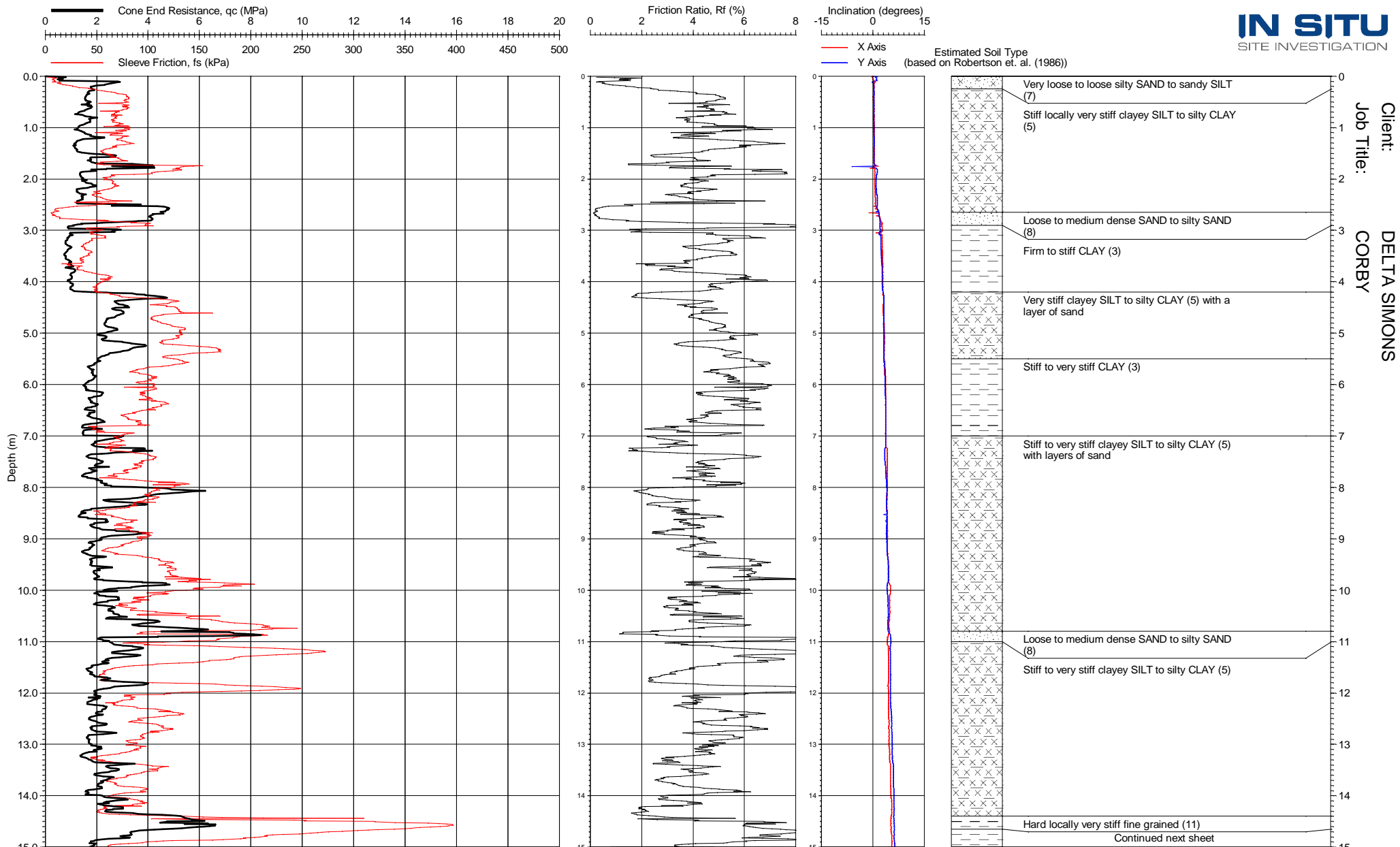


## APPENDIX B

### CPT RESULTS

#### LIST OF FIGURES

Description	Pages Included
CPT 101 – CPT 109 (Printed on Form CPT0001) Estimated Soil Behaviour Type Plot	17
CPT 101 – CPT 109 (Printed on Form CPT0002) Measured Pore Pressure Plot	17



Client: DELTA SIMONS  
Job Title: CORBY

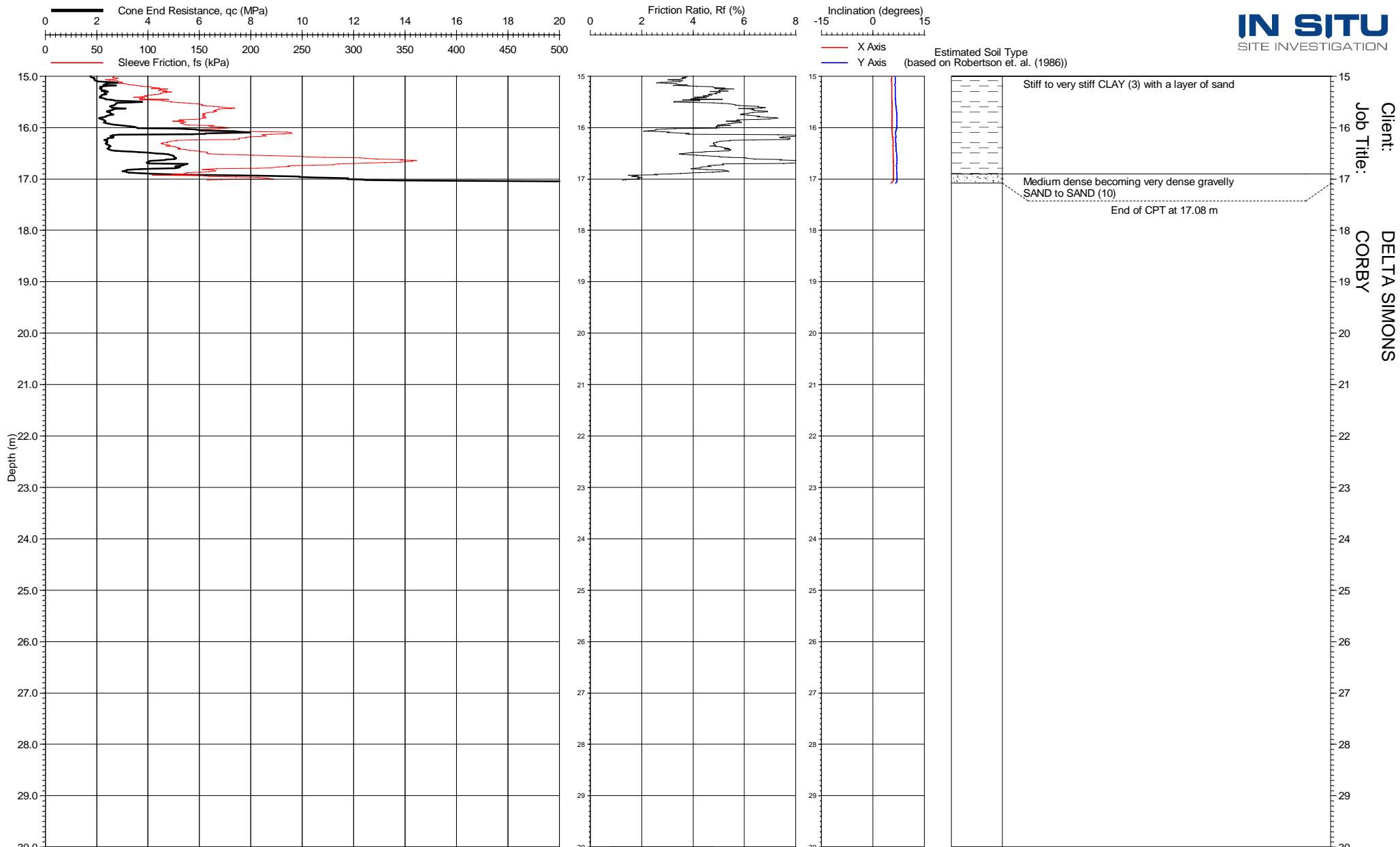
Location: Corby  
Coordinates: 491070.280E - 290870.590N  
Ground Level: 104.04 m aD  
Cone & Rig Used: S15-CFIP.1093 - CPT 008  
Remarks: Test refused on total pressure.

Date of Test: 02/09/2015  
Date of Plot: 13/10/2015  
File Name: 1150281 - CPT 101  
Checked By: *[Signature]*

**PCPT Zero Values**

Tip Zero Pre: 259 mV	Tip Zero Post: 258 mV	Tip Zero Difference: 0 %
Sleeve Zero Pre: 290 mV	Sleeve Zero Post: 285 mV	Sleeve Zero Difference: 2 %
Pore Pressure Zero Pre: 239 mV	Pore Pressure Zero Post: 232 mV	Pore Pressure Difference: 3 %
X Inclinator Zero Pre: 2248 mV	X Inclinator Zero Post: 2472 mV	X Inclinator Difference: -9 %
Y Inclinator Zero Pre: 2248 mV	Y Inclinator Zero Post: 2472 mV	Y Inclinator Difference: -9 %

**PIEZO CONE PENETRATION TEST**  
**CPT 101**  
[insitusi.com](http://insitusi.com)  
Form: CPT0001



Location: Corby  
 Coordinates: 491070.280E - 290870.590N  
 Ground Level: 104.04 m aD  
 Cone & Rig Used: S15-CFIP.1093 - CPT 008  
 Remarks: Test refused on total pressure.

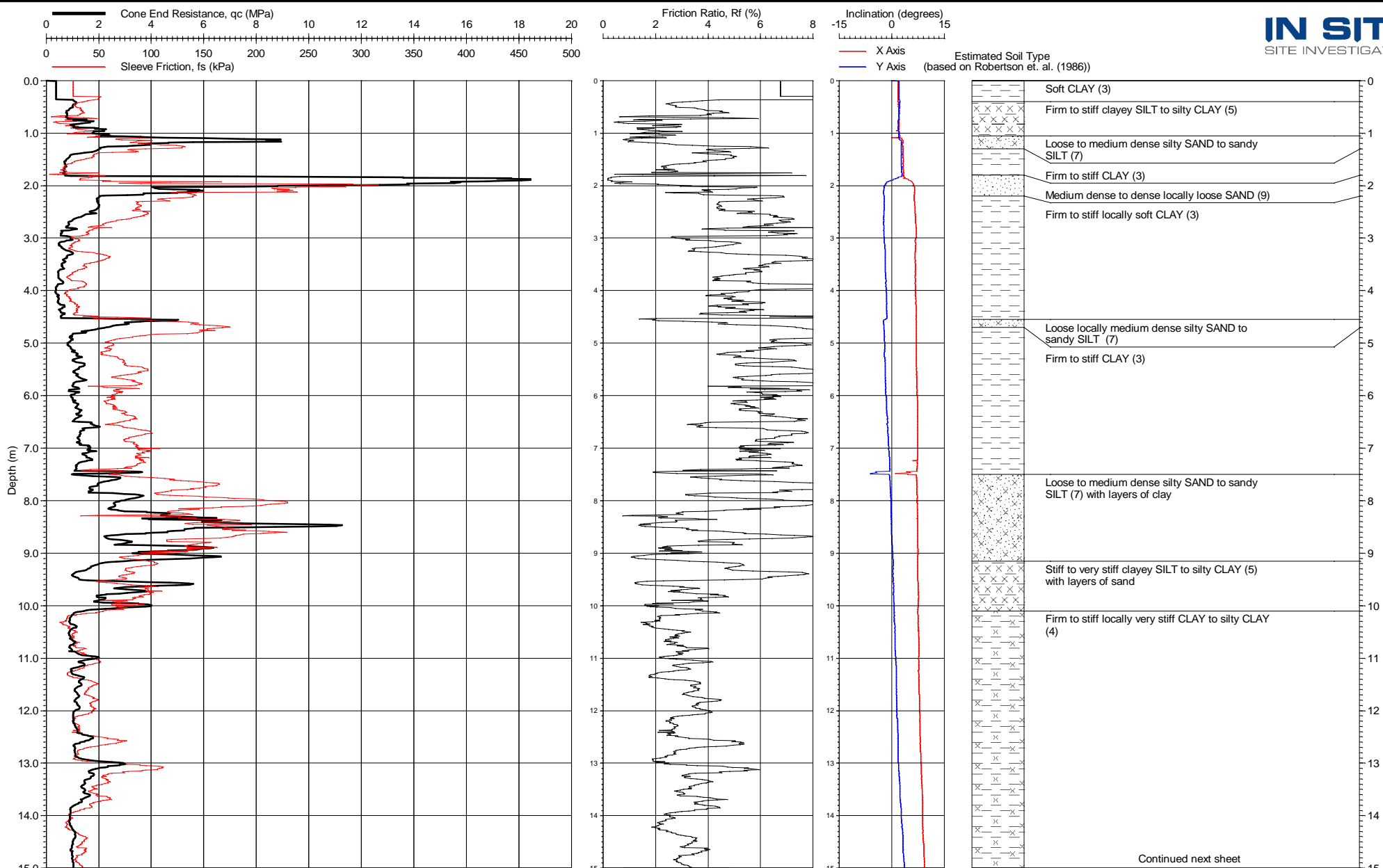
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 Date of Plot: 13/10/2015  
 File Name: 1150281 - CPT 101  
 Checked By: *[Signature]*

**PCPT Zero Values**

Tip Zero Pre: 259 mV	Tip Zero Post: 258 mV	Tip Zero Difference: 0 %
Sleeve Zero Pre: 290 mV	Sleeve Zero Post: 285 mV	Sleeve Zero Difference: 2 %
Pore Pressure Zero Pre: 239 mV	Pore Pressure Zero Post: 232 mV	Pore Pressure Difference: 3 %
X Inclinator Zero Pre: 2248 mV	X Inclinator Zero Post: 2472 mV	X Inclinator Difference: -9 %
Y Inclinator Zero Pre: 2248 mV	Y Inclinator Zero Post: 2472 mV	Y Inclinator Difference: -9 %

**PIEZO CONE PENETRATION TEST**  
**CPT 101**  
 insitusi.com  
 Form: CPT0001

Client: DELTA SIMONS  
Job Title: CORBY



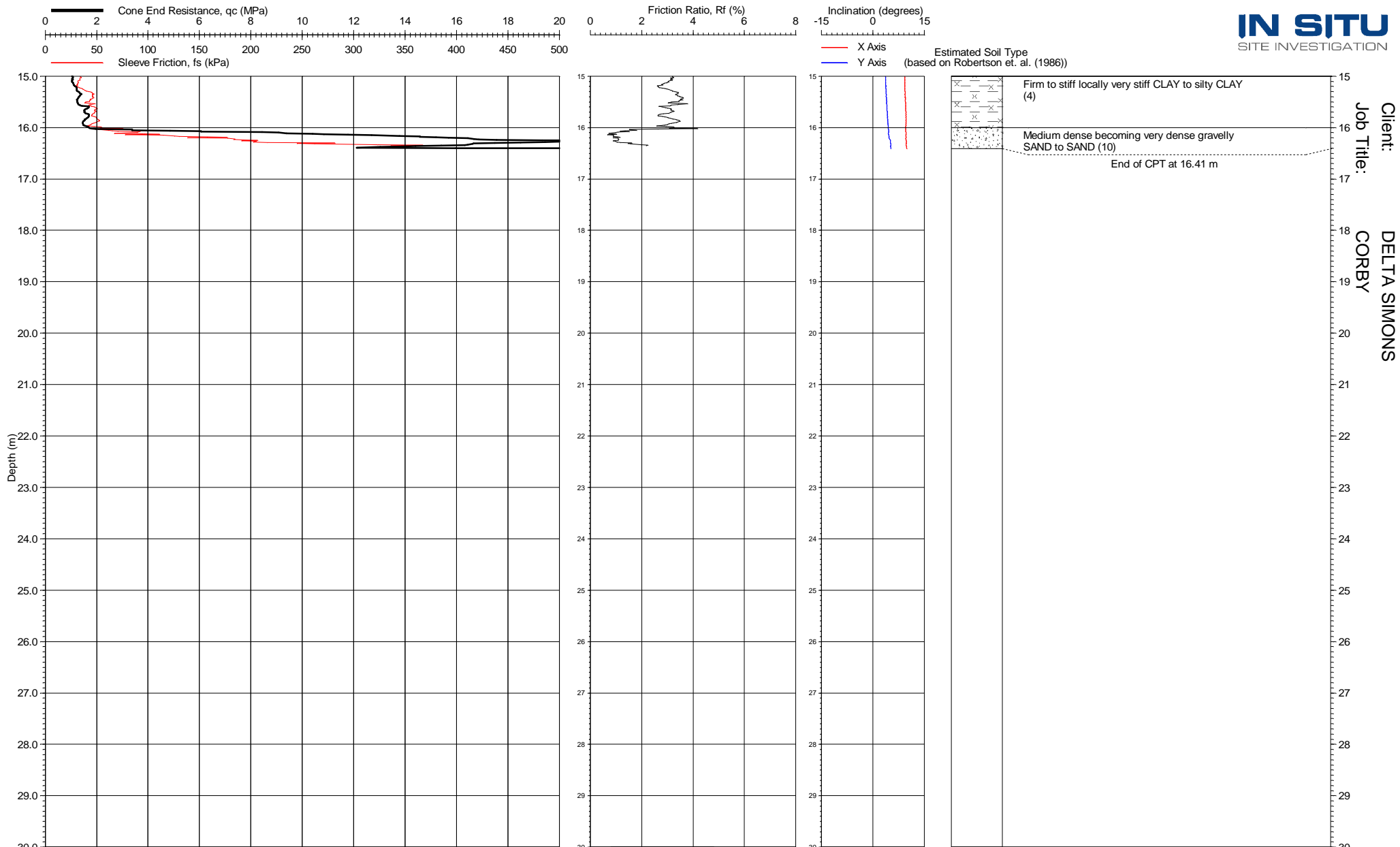
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Location: Corby  
Coordinates: 491021.740E - 290918.910N  
Ground Level: 105.55 m aD  
Cone & Rig Used: S15-CFIP.1093 - CPT 008  
Remarks: Test refused on total pressure.

Date of Test: 02/09/2015  
Date of Plot: 13/10/2015  
File Name: 1150281 - CPT 102  
Checked By: *[Signature]*

**PCPT Zero Values**

Tip Zero Pre: 259 mV	Tip Zero Post: 259 mV	Tip Zero Difference: 0 %
Sleeve Zero Pre: 279 mV	Sleeve Zero Post: 281 mV	Sleeve Zero Difference: -1 %
Pore Pressure Zero Pre: 231 mV	Pore Pressure Zero Post: 232 mV	Pore Pressure Difference: 0 %
X Inclinator Zero Pre: 2480 mV	X Inclinator Zero Post: 2470 mV	X Inclinator Difference: 0 %
Y Inclinator Zero Pre: 2480 mV	Y Inclinator Zero Post: 2470 mV	Y Inclinator Difference: 0 %



Location: Corby  
 Coordinates: 491021.740E - 290918.910N  
 Ground Level: 105.55 m aD  
 Cone & Rig Used: S15-CFIP.1093 - CPT 008  
 Remarks: Test refused on total pressure.

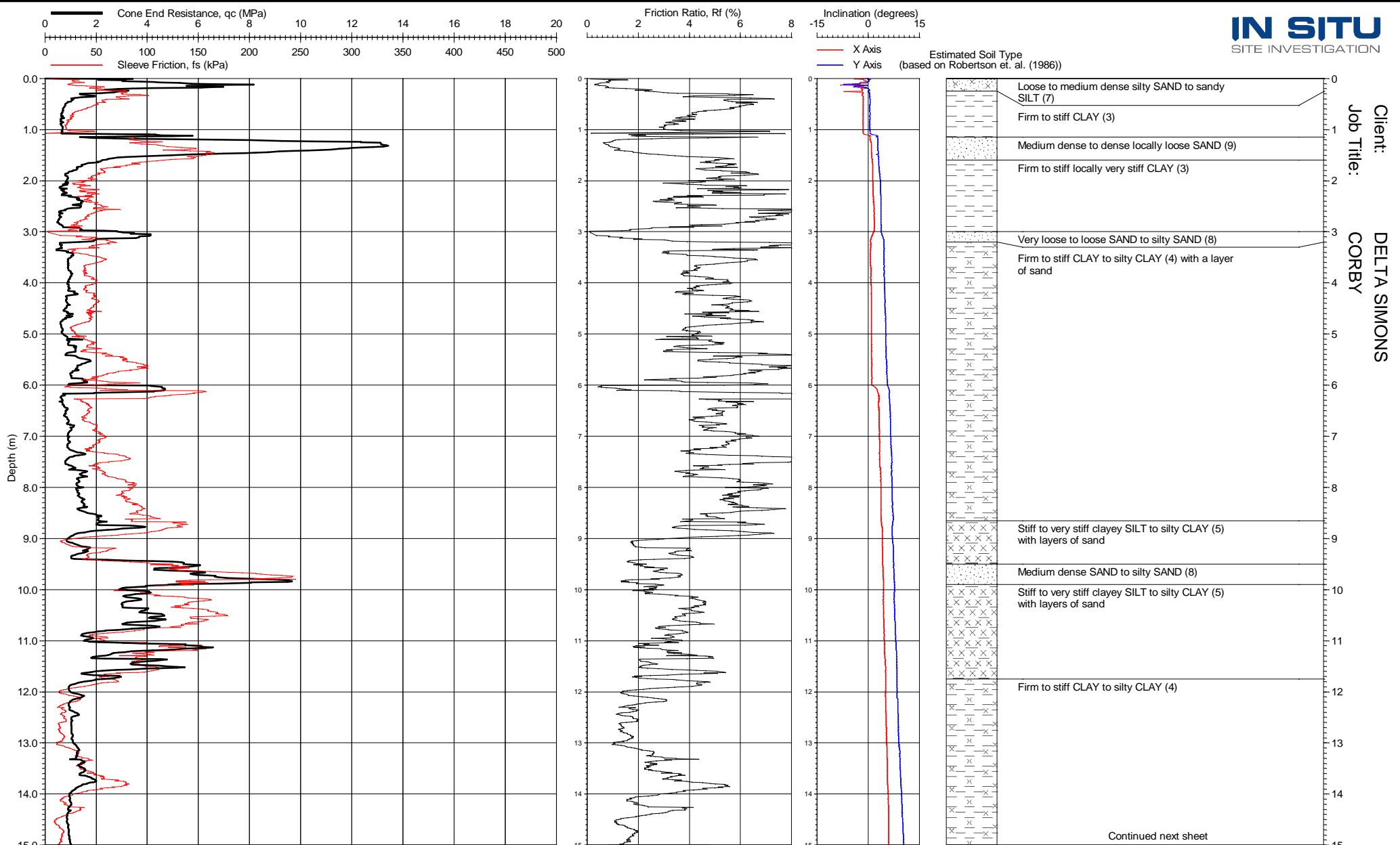
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 Date of Plot: 13/10/2015  
 File Name: 1150281 - CPT 102  
 Checked By: *[Signature]*

**PCPT Zero Values**

Tip Zero Pre: 259 mV	Tip Zero Post: 259 mV	Tip Zero Difference: 0 %
Sleeve Zero Pre: 279 mV	Sleeve Zero Post: 281 mV	Sleeve Zero Difference: -1 %
Pore Pressure Zero Pre: 231 mV	Pore Pressure Zero Post: 232 mV	Pore Pressure Difference: 0 %
X Inclinator Zero Pre: 2480 mV	X Inclinator Zero Post: 2470 mV	X Inclinator Difference: 0 %
Y Inclinator Zero Pre: 2480 mV	Y Inclinator Zero Post: 2470 mV	Y Inclinator Difference: 0 %

**PIEZO CONE PENETRATION TEST**  
**CPT 102**  
 insitusi.com  
 Form: CPT0001

Client: DELTA SIMONS  
Job Title: CORBY



Continued next sheet

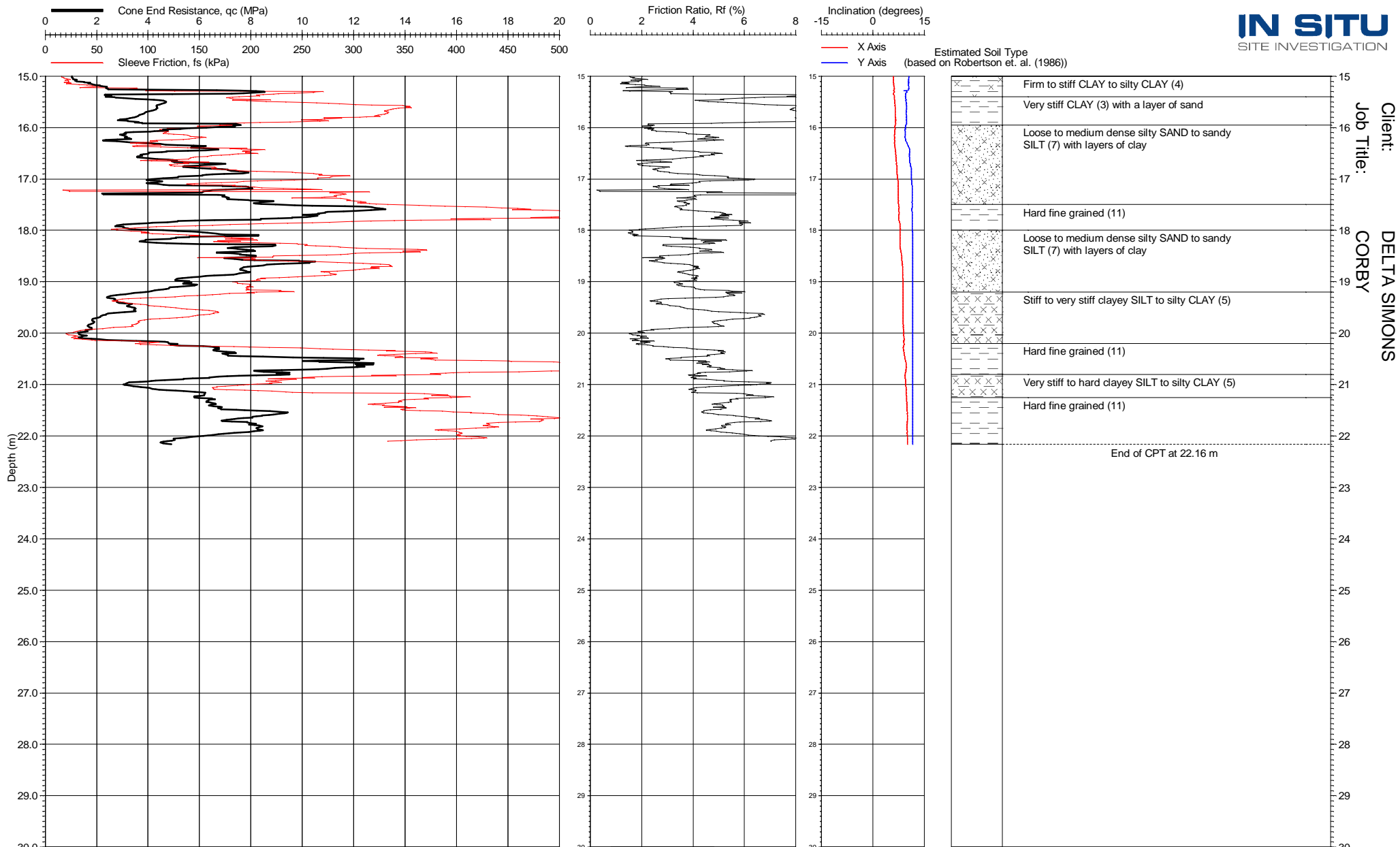
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Coordinates: 490958.570E - 290901.230N  
Ground Level: 106.26 m aD  
Cone & Rig Used: S15-CFIP.1093 - CPT 008  
Remarks: Test refused on total pressure.

Date of Test: 02/09/2015  
Date of Plot: 13/10/2015  
File Name: 1150281 - CPT 103  
Checked By: *[Signature]*

**PCPT Zero Values**

Tip Zero Pre: 257 mV	Tip Zero Post: 258 mV	Tip Zero Difference: 0 %
Sleeve Zero Pre: 285 mV	Sleeve Zero Post: 282 mV	Sleeve Zero Difference: 1 %
Pore Pressure Zero Pre: 233 mV	Pore Pressure Zero Post: 256 mV	Pore Pressure Difference: -9 %
X Inclinator Zero Pre: 2439 mV	X Inclinator Zero Post: 2372 mV	X Inclinator Difference: 3 %
Y Inclinator Zero Pre: 2439 mV	Y Inclinator Zero Post: 2372 mV	Y Inclinator Difference: 3 %

**PIEZO CONE PENETRATION TEST**  
**CPT 103**  
[insitusi.com](http://insitusi.com)  
Form: CPT0001



Client: DELTA SIMONS  
Job Title: CORBY

Location: Corby  
 Coordinates: 490958.570E - 290901.230N  
 Ground Level: 106.26 m aD  
 Cone & Rig Used: S15-CFIP.1093 - CPT 008  
 Date of Test: 02/09/2015  
 Date of Plot: 13/10/2015  
 File Name: 1150281 - CPT 103  
 Checked By: *[Signature]*

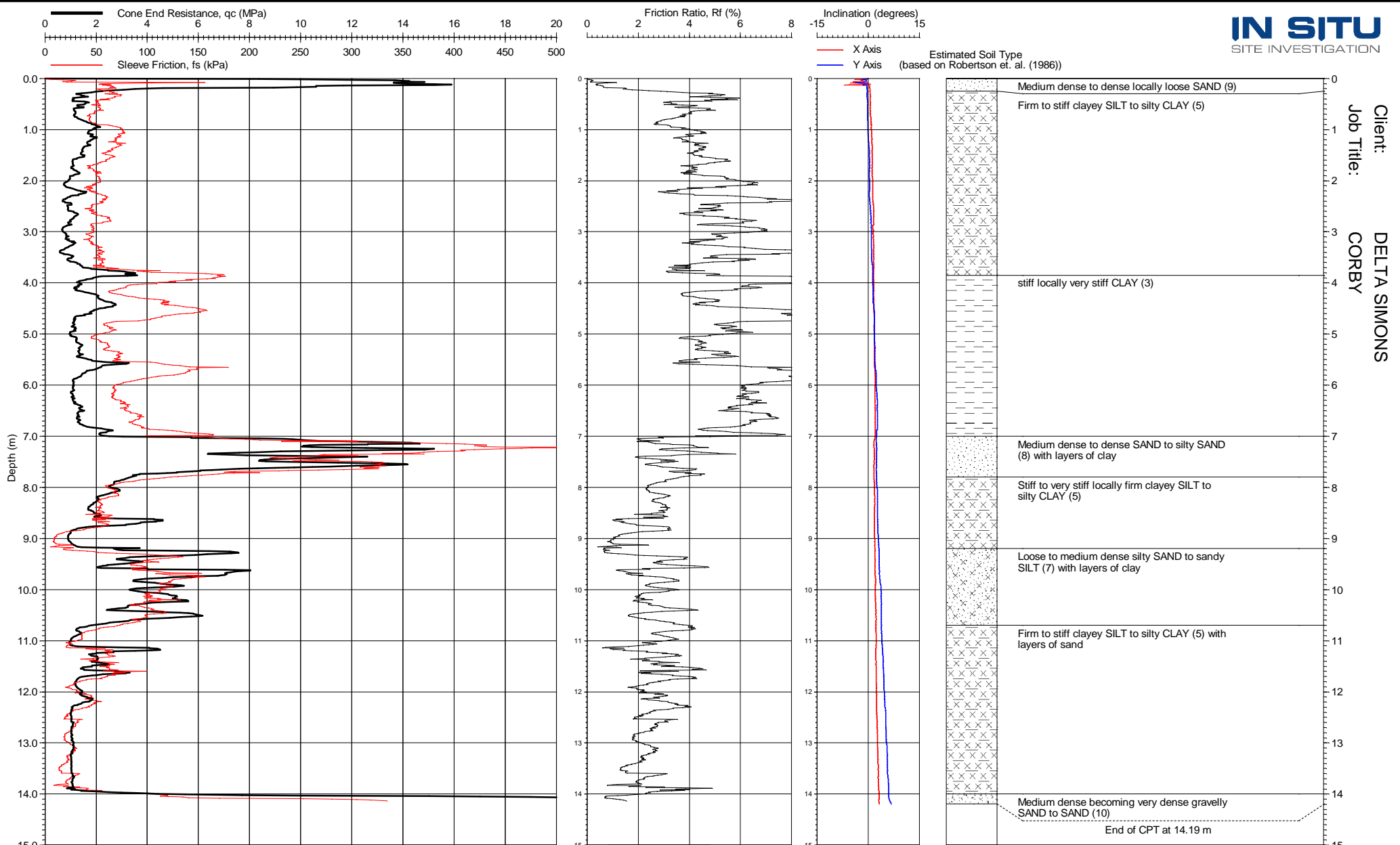
**PCPT Zero Values**

Tip Zero Pre: 257 mV	Tip Zero Post: 258 mV	Tip Zero Difference: 0 %
Sleeve Zero Pre: 285 mV	Sleeve Zero Post: 282 mV	Sleeve Zero Difference: 1 %
Pore Pressure Zero Pre: 233 mV	Pore Pressure Zero Post: 256 mV	Pore Pressure Difference: -9 %
X Inclinator Zero Pre: 2439 mV	X Inclinator Zero Post: 2372 mV	X Inclinator Difference: 3 %
Y Inclinator Zero Pre: 2439 mV	Y Inclinator Zero Post: 2372 mV	Y Inclinator Difference: 3 %

**PIEZO CONE PENETRATION TEST**  
**CPT 103**  
 insitusi.com  
 Form: CPT0001

Remarks: Test refused on total pressure.

Client: DELTA SIMONS  
Job Title: CORBY



Location: Corby  
Coordinates: 490907.410E - 290883.580N  
Ground Level: 106.75 m aD  
Cone & Rig Used: S15-CFIP.1093 - CPT 008  
Remarks: Test refused on total pressure.

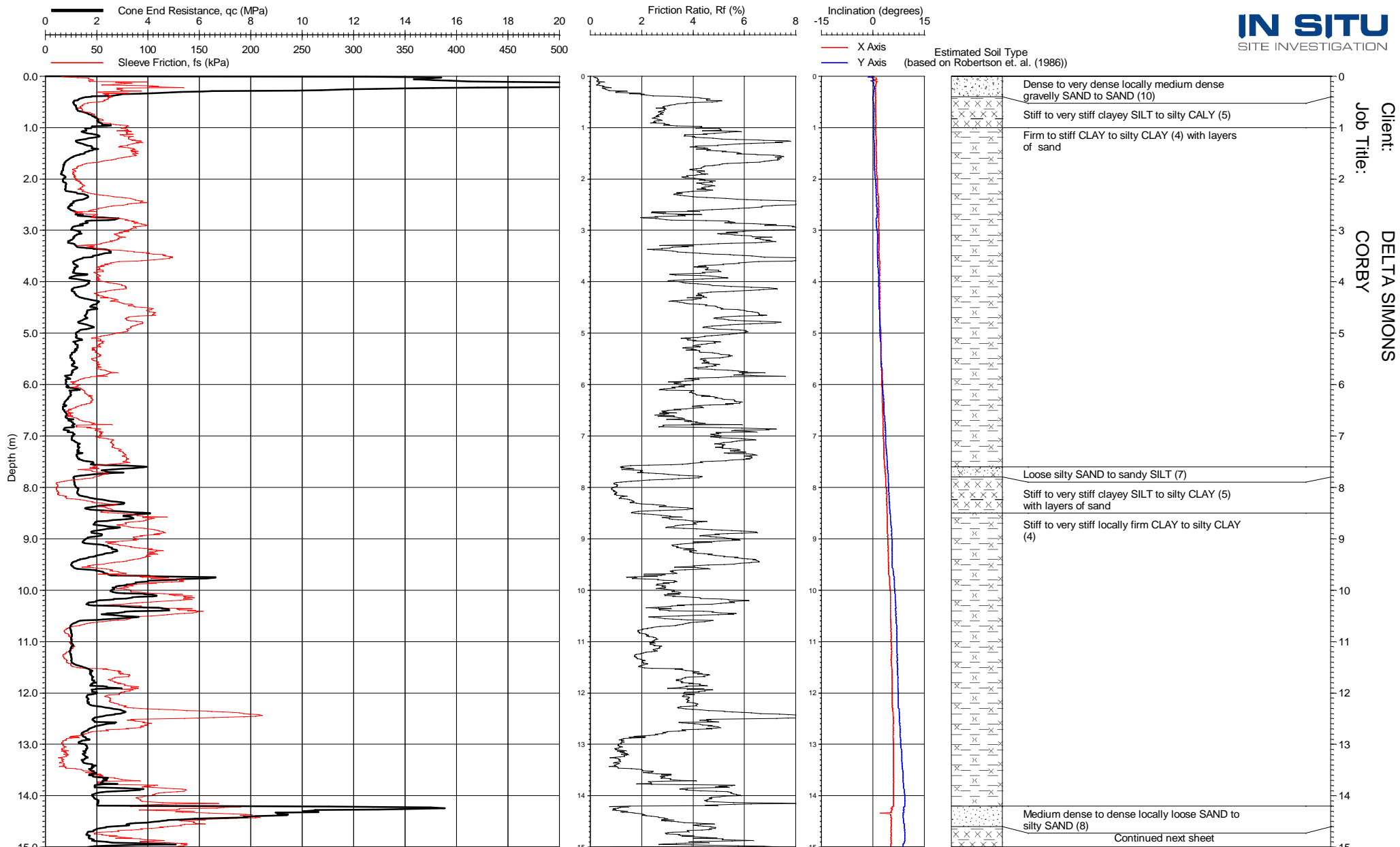
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Checked By: *[Signature]*

**PCPT Zero Values**

Tip Zero Pre: 259 mV	Tip Zero Post: 260 mV	Tip Zero Difference: 0 %
Sleeve Zero Pre: 282 mV	Sleeve Zero Post: 279 mV	Sleeve Zero Difference: 1 %
Pore Pressure Zero Pre: 230 mV	Pore Pressure Zero Post: 237 mV	Pore Pressure Difference: -3 %
X Inclinator Zero Pre: 2556 mV	X Inclinator Zero Post: 2563 mV	X Inclinator Difference: 0 %
Y Inclinator Zero Pre: 2556 mV	Y Inclinator Zero Post: 2563 mV	Y Inclinator Difference: 0 %

**PIEZO CONE PENETRATION TEST**  
**CPT 104**  
[insitusi.com](http://insitusi.com)  
Form: CPT0001





Client: DELTA SIMONS  
Job Title: CORBY

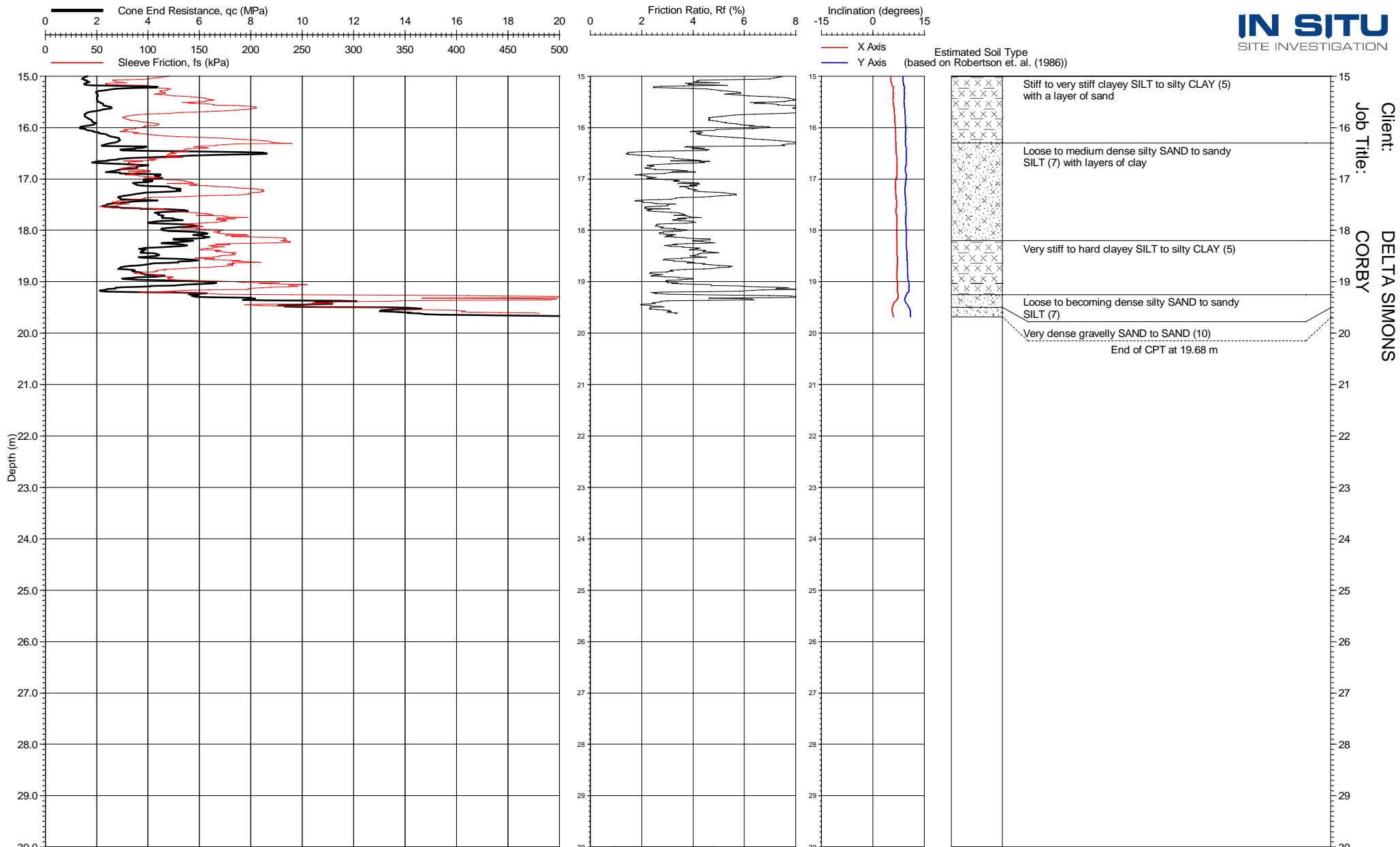
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Coordinates: 490910.010E - 290839.530N  
Ground Level: 105.95 m aD  
Cone & Rig Used: S15-CFIP.1093 - CPT 008  
Remarks: Test refused on total pressure.

Date of Test: 02/09/2015  
Date of Plot: 13/10/2015  
File Name: 1150281 - CPT 105  
Checked By: *[Signature]*

**PCPT Zero Values**

Tip Zero Pre: 258 mV	Tip Zero Post: 259 mV	Tip Zero Difference: 0 %
Sleeve Zero Pre: 282 mV	Sleeve Zero Post: 282 mV	Sleeve Zero Difference: 0 %
Pore Pressure Zero Pre: 232 mV	Pore Pressure Zero Post: 235 mV	Pore Pressure Difference: -1 %
X Inclinator Zero Pre: 2548 mV	X Inclinator Zero Post: 2533 mV	X Inclinator Difference: 1 %
Y Inclinator Zero Pre: 2548 mV	Y Inclinator Zero Post: 2533 mV	Y Inclinator Difference: 1 %

**PIEZO CONE PENETRATION TEST**  
**CPT 105**  
[insitusi.com](http://insitusi.com)  
Form: CPT0001



Client: DELTA SIMONS  
Job Title: CORBY

Location: Corby  
 Coordinates: 490910.010E - 290839.530N  
 Ground Level: 105.95 m aD  
 Cone & Rig Used: S15-CFIP.1093 - CPT 008  
 Remarks: Test refused on total pressure.

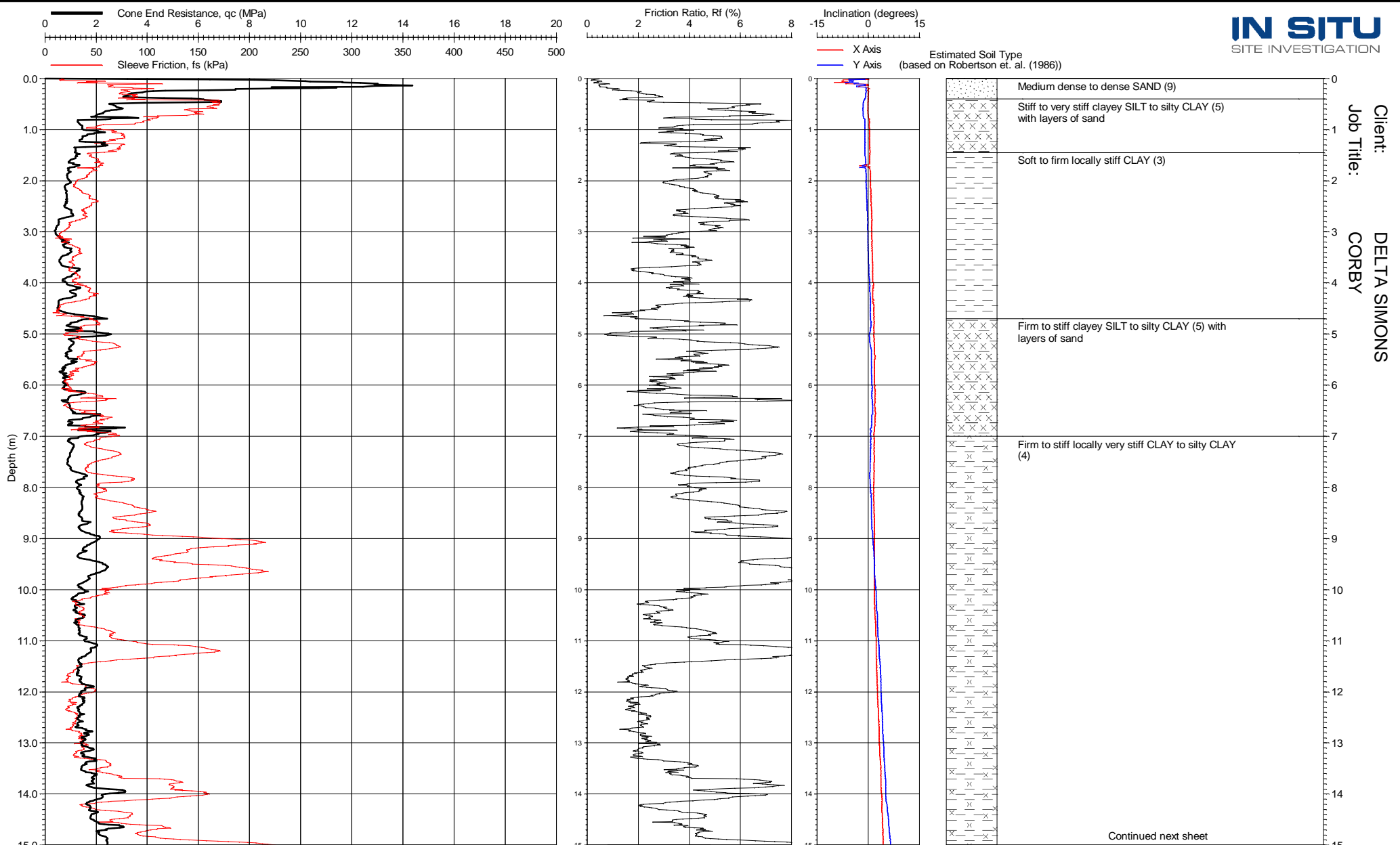
Date of Test: 02/09/2015  
 Date of Plot: 13/10/2015  
 File Name: 1150281 - CPT 105  
 Checked By: *[Signature]*

**PCPT Zero Values**

Tip Zero Pre: 258 mV	Tip Zero Post: 259 mV	Tip Zero Difference: 0 %
Sleeve Zero Pre: 282 mV	Sleeve Zero Post: 282 mV	Sleeve Zero Difference: 0 %
Pore Pressure Zero Pre: 232 mV	Pore Pressure Zero Post: 235 mV	Pore Pressure Difference: -1 %
X Inclinator Zero Pre: 2548 mV	X Inclinator Zero Post: 2533 mV	X Inclinator Difference: 1 %
Y Inclinator Zero Pre: 2548 mV	Y Inclinator Zero Post: 2533 mV	Y Inclinator Difference: 1 %

PIEZO CONE PENETRATION TEST  
**CPT 105**  
 insitusi.com  
 Form: CPT0001

Client: DELTA SIMONS  
Job Title: CORBY



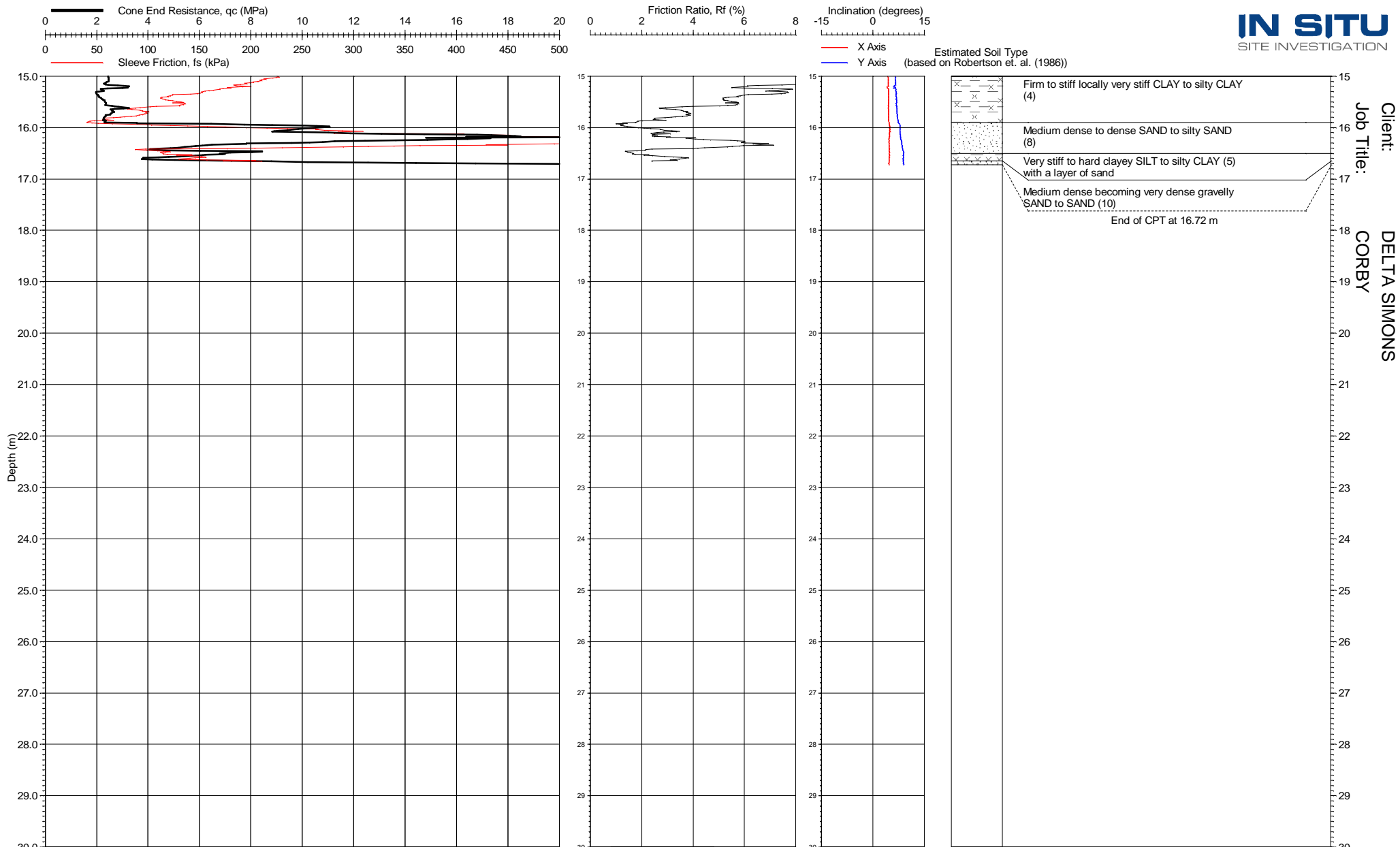
Continued next sheet

Location: Corby  
Coordinates: 490856.190E - 290812.940N  
Ground Level: 106.48 m aD  
Cone & Rig Used: S15-CFIP.1093 - CPT 008  
Remarks: Test refused on total pressure.

Date of Test: 02/09/2015  
Date of Plot: 13/10/2015  
File Name: 1150281 - CPT 106  
Checked By: *[Signature]*

PCPT Zero Values		
Tip Zero Pre: 257 mV	Tip Zero Post: 260 mV	Tip Zero Difference: -1 %
Sleeve Zero Pre: 284 mV	Sleeve Zero Post: 284 mV	Sleeve Zero Difference: 0 %
Pore Pressure Zero Pre: 230 mV	Pore Pressure Zero Post: 249 mV	Pore Pressure Difference: -8 %
X Inclinator Zero Pre: 2437 mV	X Inclinator Zero Post: 2459 mV	X Inclinator Difference: -1 %
Y Inclinator Zero Pre: 2437 mV	Y Inclinator Zero Post: 2459 mV	Y Inclinator Difference: -1 %

PIEZO CONE PENETRATION TEST  
**CPT 106**  
[insitusi.com](http://insitusi.com)  
Form: CPT0001



Client: DELTA SIMONS  
Job Title: CORBY

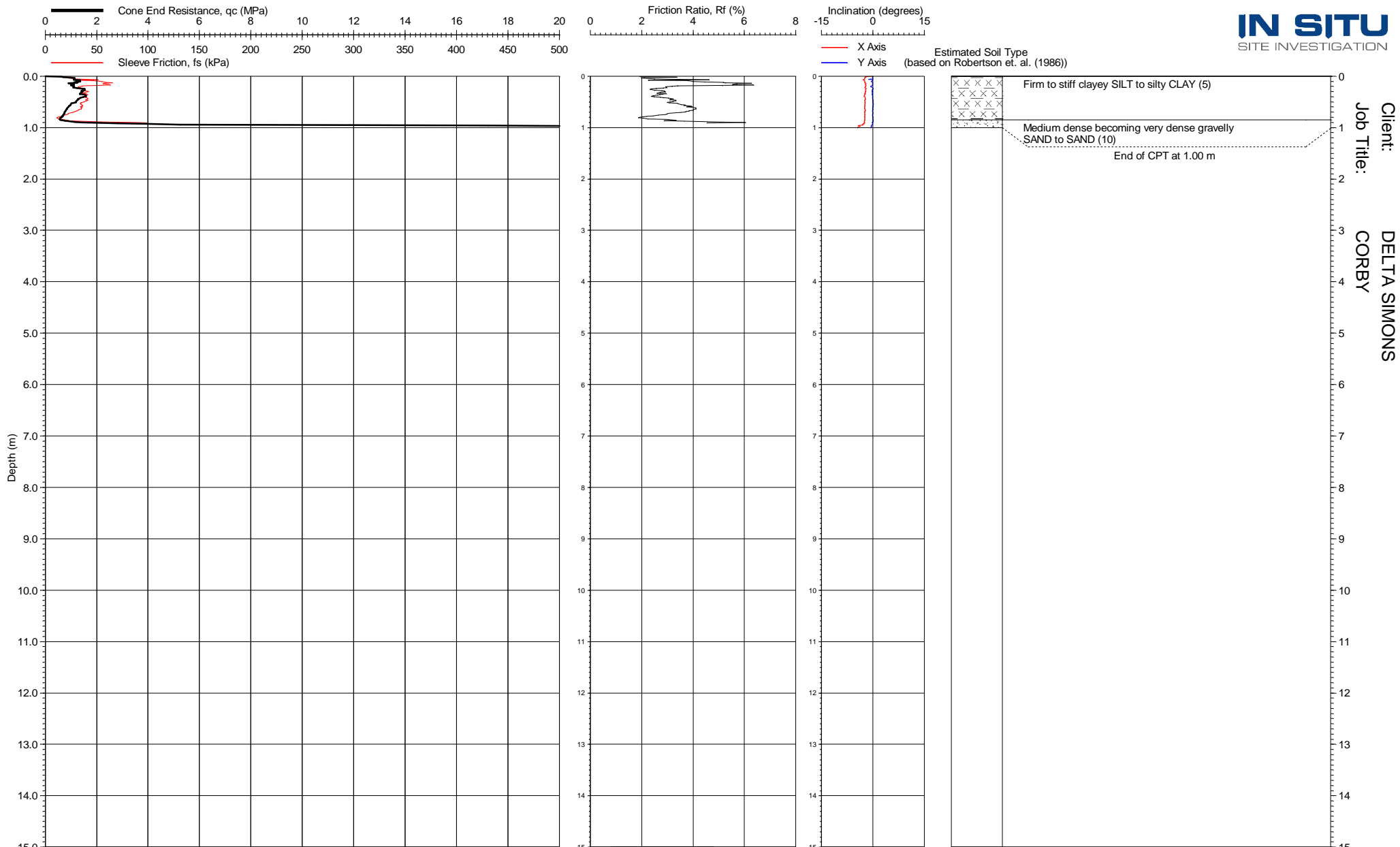
Location: Corby  
Coordinates: 490856.190E - 290812.940N  
Ground Level: 106.48 m aD  
Cone & Rig Used: S15-CFIP.1093 - CPT 008  
Remarks: Test refused on total pressure.

Date of Test: 02/09/2015  
Date of Plot: 13/10/2015  
File Name: 1150281 - CPT 106  
Checked By: *[Signature]*

**PCPT Zero Values**

Tip Zero Pre: 257 mV	Tip Zero Post: 260 mV	Tip Zero Difference: -1 %
Sleeve Zero Pre: 284 mV	Sleeve Zero Post: 284 mV	Sleeve Zero Difference: 0 %
Pore Pressure Zero Pre: 230 mV	Pore Pressure Zero Post: 249 mV	Pore Pressure Difference: -8 %
X Inclinator Zero Pre: 2437 mV	X Inclinator Zero Post: 2459 mV	X Inclinator Difference: -1 %
Y Inclinator Zero Pre: 2437 mV	Y Inclinator Zero Post: 2459 mV	Y Inclinator Difference: -1 %

**PIEZO CONE PENETRATION TEST**  
**CPT 106**  
[insitusi.com](http://insitusi.com)  
Form: CPT0001



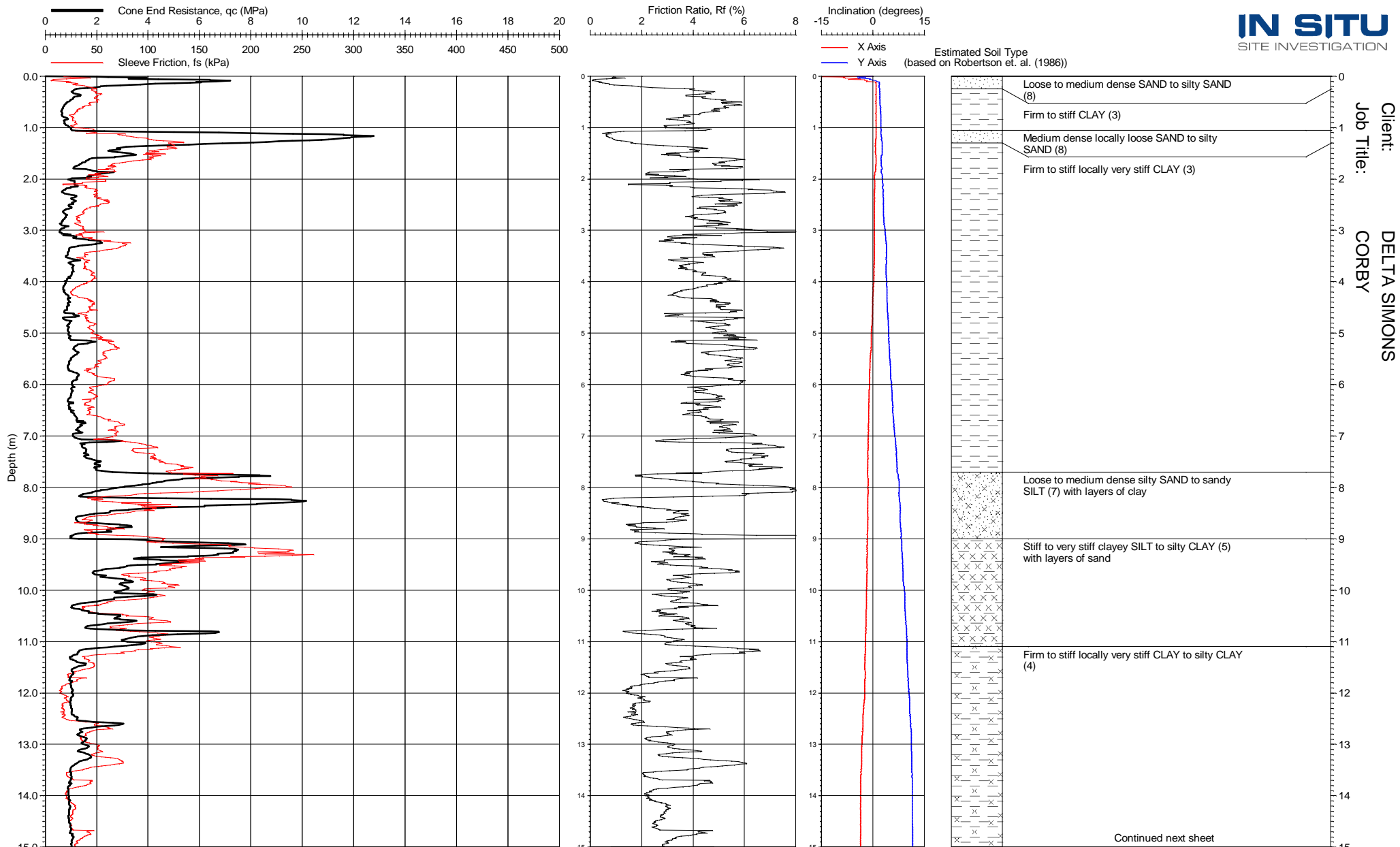
Location: Corby  
Coordinates: 490958.570E - 290901.230N  
Ground Level: 106.26 m aD  
Cone & Rig Used: S15-CFIP.1093 - CPT 008  
Remarks: Test refused on total pressure.

Date of Test: 03/09/2015  
Date of Plot: 13/10/2015  
File Name: 1150281 - CPT 107  
Checked By: *[Signature]*

**PCPT Zero Values**

Tip Zero Pre: 259 mV	Tip Zero Post: 260 mV	Tip Zero Difference: 0 %
Sleeve Zero Pre: 282 mV	Sleeve Zero Post: 281 mV	Sleeve Zero Difference: 0 %
Pore Pressure Zero Pre: 229 mV	Pore Pressure Zero Post: 229 mV	Pore Pressure Difference: 0 %
X Inclinator Zero Pre: 2341 mV	X Inclinator Zero Post: 2333 mV	X Inclinator Difference: 0 %
Y Inclinator Zero Pre: 2341 mV	Y Inclinator Zero Post: 2333 mV	Y Inclinator Difference: 0 %

**PIEZO CONE PENETRATION TEST**  
**CPT 107**  
[insitusi.com](http://insitusi.com)  
Form: CPT0001



Client: DELTA SIMONS  
Job Title: CORBY

Location: Corby  
Coordinates: 490959.570E - 290902.230N  
Ground Level: 106.26 m aD  
Cone & Rig Used: S15-CFIP.1093 - CPT 008  
Remarks: Test refused on total pressure.

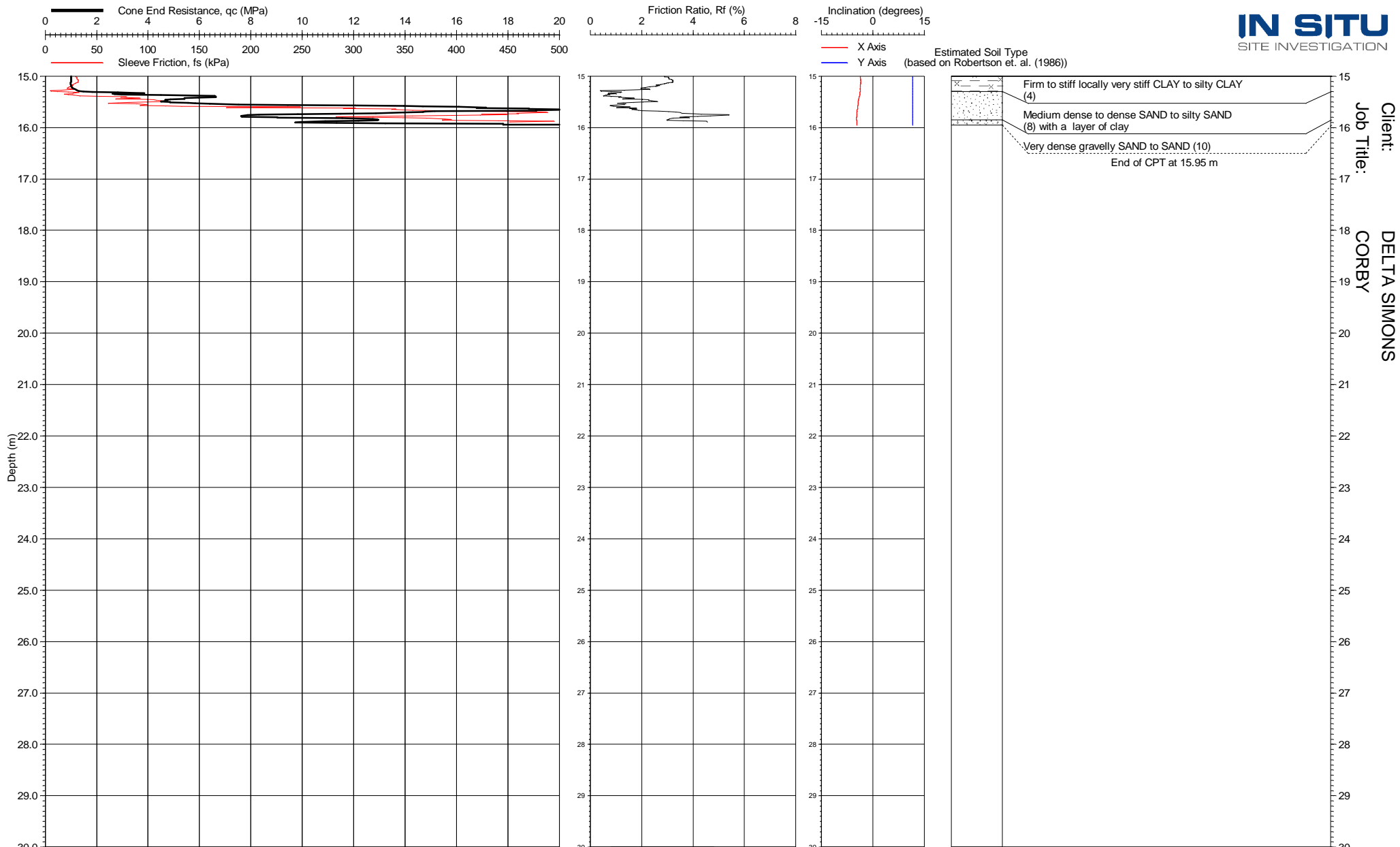
Date of Test: 03/09/2015  
Date of Plot: 13/10/2015  
File Name: 1150281 - CPT 107A  
Checked By: *[Signature]*

**PCPT Zero Values**

Tip Zero Pre: 259 mV	Tip Zero Post: 260 mV	Tip Zero Difference: 0 %
Sleeve Zero Pre: 282 mV	Sleeve Zero Post: 280 mV	Sleeve Zero Difference: 1 %
Pore Pressure Zero Pre: 230 mV	Pore Pressure Zero Post: 230 mV	Pore Pressure Difference: 0 %
X Inclinator Zero Pre: 2285 mV	X Inclinator Zero Post: 2514 mV	X Inclinator Difference: -9 %
Y Inclinator Zero Pre: 2285 mV	Y Inclinator Zero Post: 2514 mV	Y Inclinator Difference: -9 %

Continued next sheet

**PIEZO CONE PENETRATION TEST**  
**CPT 107A**  
[insitusi.com](http://insitusi.com)  
Form: CPT0001



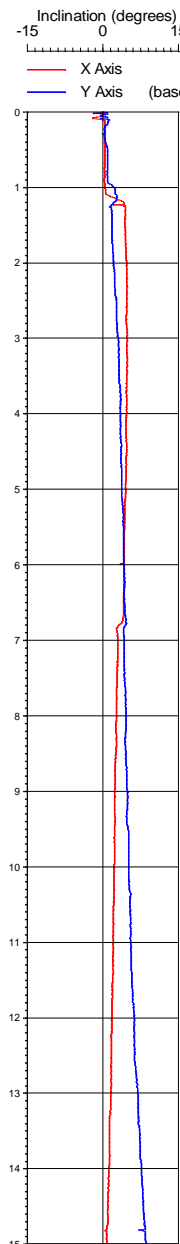
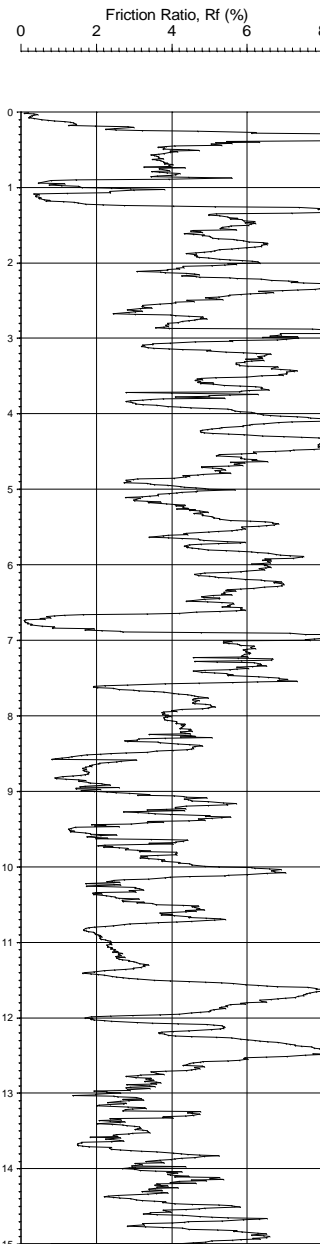
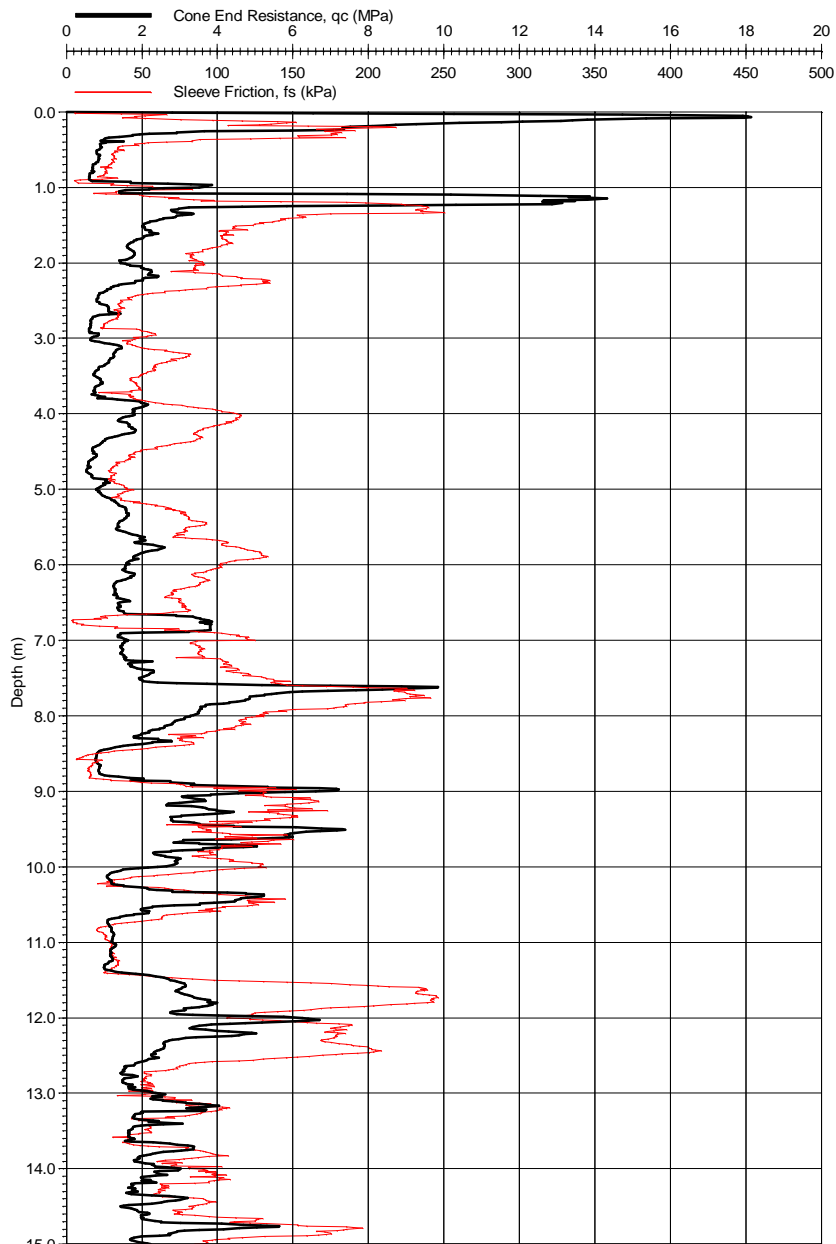
Location: Corby  
 Coordinates: 490959.570E - 290902.230N  
 Ground Level: 106.26 m aD  
 Cone & Rig Used: S15-CFIP.1093 - CPT 008  
 Remarks: Test refused on total pressure.

Date of Test: 03/09/2015  
 Date of Plot: 13/10/2015  
 File Name: 1150281 - CPT 107A  
 Checked By: *[Signature]*

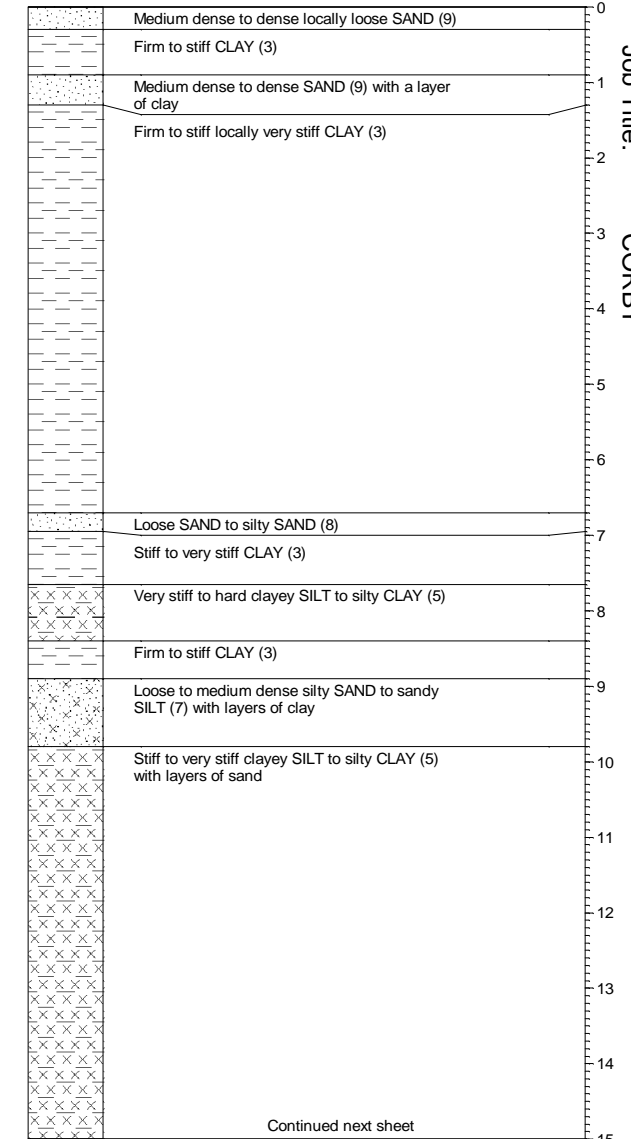
**PCPT Zero Values**

Tip Zero Pre: 259 mV	Tip Zero Post: 260 mV	Tip Zero Difference: 0 %
Sleeve Zero Pre: 282 mV	Sleeve Zero Post: 280 mV	Sleeve Zero Difference: 1 %
Pore Pressure Zero Pre: 230 mV	Pore Pressure Zero Post: 230 mV	Pore Pressure Difference: 0 %
X Inclinator Zero Pre: 2285 mV	X Inclinator Zero Post: 2514 mV	X Inclinator Difference: -9 %
Y Inclinator Zero Pre: 2285 mV	Y Inclinator Zero Post: 2514 mV	Y Inclinator Difference: -9 %

**PIEZO CONE PENETRATION TEST**  
**CPT 107A**  
 insitusi.com  
 Form: CPT0001



Estimated Soil Type  
(based on Robertson et. al. (1986))



Client: DELTA SIMONS  
Job Title: CORBY

Location: Corby  
Coordinates: 490947.750E - 290902.420N  
Ground Level: 106.55 m aD  
Cone & Rig Used: S15-CFIP.1093 - CPT 008  
Remarks: Test refused on total pressure.

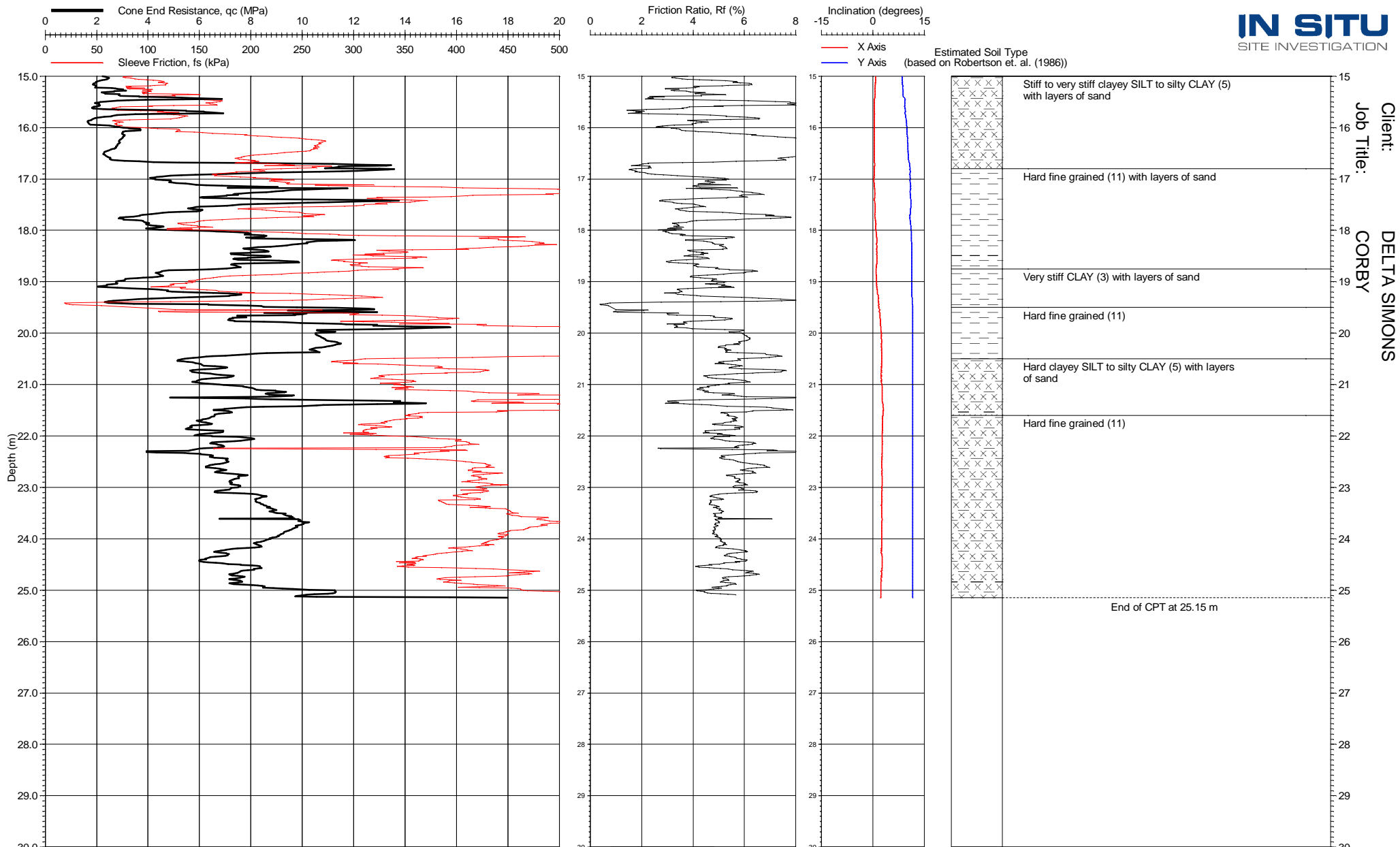
Date of Test: 03/09/2015  
Date of Plot: 13/10/2015  
File Name: 1150281 - CPT 108  
Checked By: *[Signature]*

PCPT Zero Values		
Tip Zero Pre: 259 mV	Tip Zero Post: 262 mV	Tip Zero Difference: -1 %
Sleeve Zero Pre: 280 mV	Sleeve Zero Post: 287 mV	Sleeve Zero Difference: -2 %
Pore Pressure Zero Pre: 233 mV	Pore Pressure Zero Post: 231 mV	Pore Pressure Difference: 1 %
X Inclinator Zero Pre: 2411 mV	X Inclinator Zero Post: 2463 mV	X Inclinator Difference: -2 %
Y Inclinator Zero Pre: 2411 mV	Y Inclinator Zero Post: 2463 mV	Y Inclinator Difference: -2 %

Continued next sheet

**PIEZO CONE PENETRATION TEST**  
**CPT 108**  
[insitusi.com](http://insitusi.com)  
Form: CPT0001





Client: DELTA SIMONS  
Job Title: CORBY

Location: Corby  
Coordinates: 490947.750E - 290902.420N  
Ground Level: 106.55 m aD  
Cone & Rig Used: S15-CFIP.1093 - CPT 008  
Remarks: Test refused on total pressure.

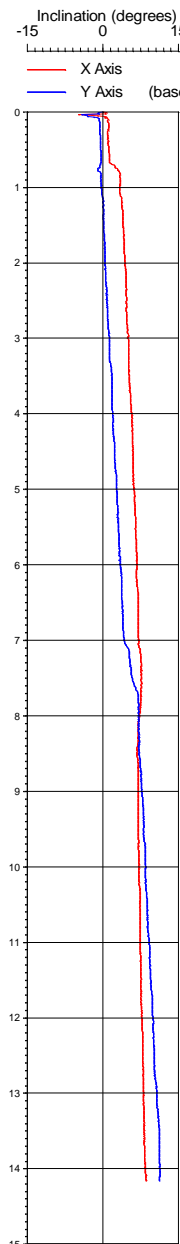
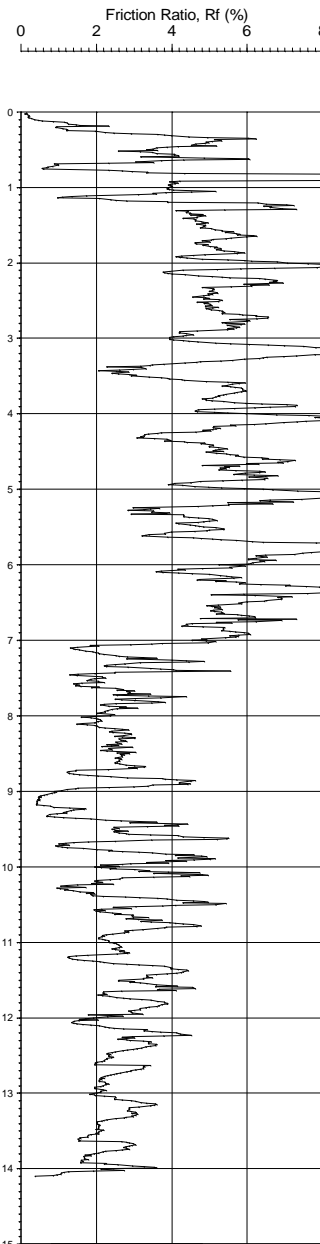
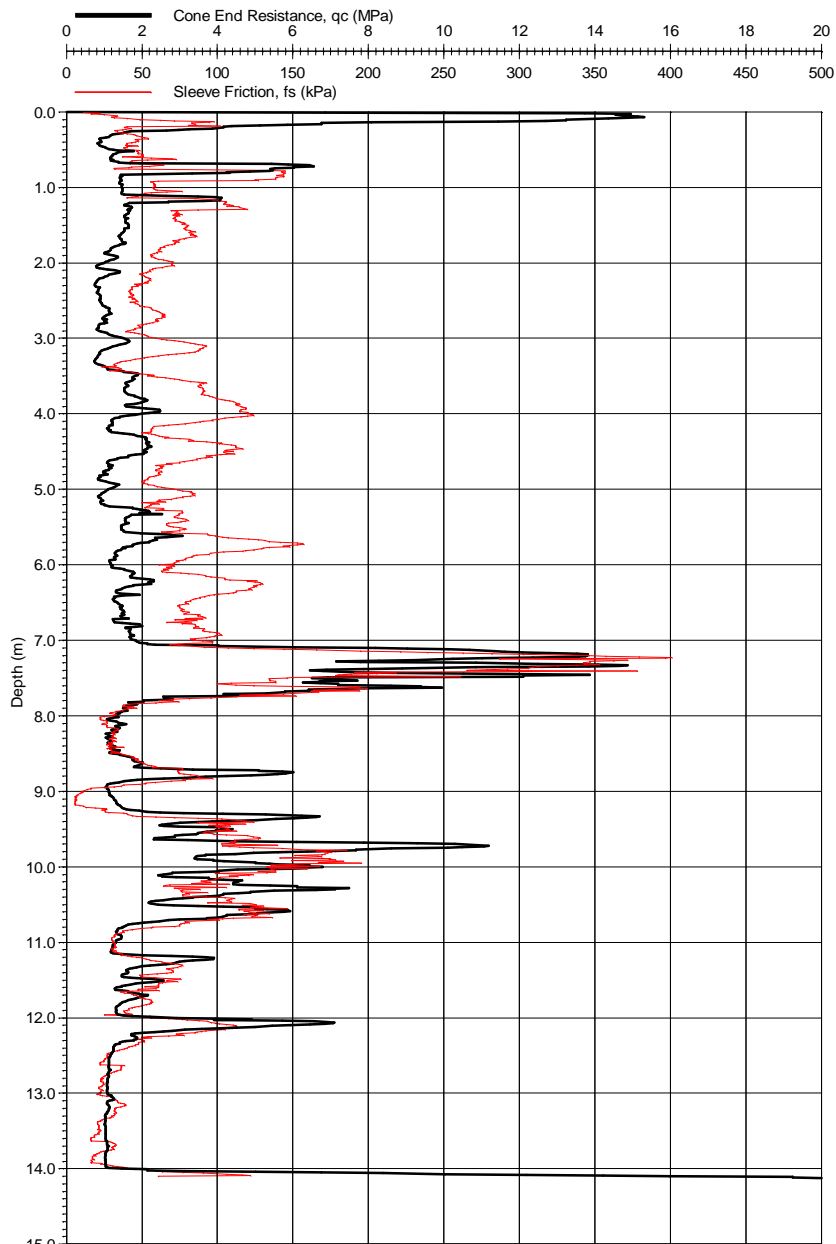
Date of Test: 03/09/2015  
Date of Plot: 13/10/2015  
File Name: 1150281 - CPT 108  
Checked By: *[Signature]*

**PCPT Zero Values**

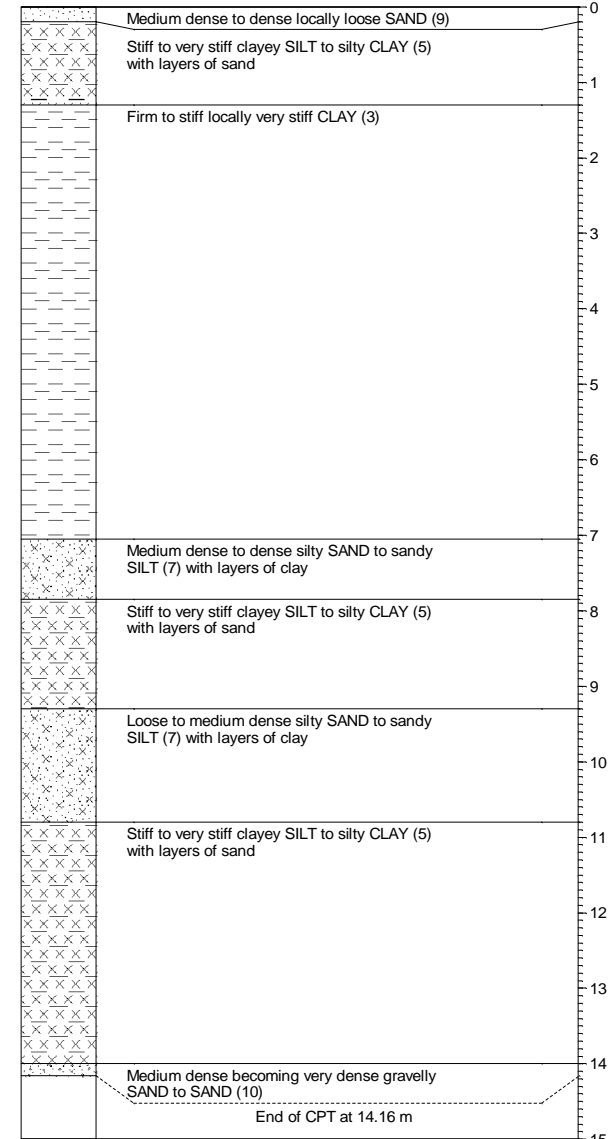
Tip Zero Pre: 259 mV	Tip Zero Post: 262 mV	Tip Zero Difference: -1 %
Sleeve Zero Pre: 280 mV	Sleeve Zero Post: 287 mV	Sleeve Zero Difference: -2 %
Pore Pressure Zero Pre: 233 mV	Pore Pressure Zero Post: 231 mV	Pore Pressure Difference: 1 %
X Inclinator Zero Pre: 2411 mV	X Inclinator Zero Post: 2463 mV	X Inclinator Difference: -2 %
Y Inclinator Zero Pre: 2411 mV	Y Inclinator Zero Post: 2463 mV	Y Inclinator Difference: -2 %

PIEZO CONE PENETRATION TEST  
**CPT 108**  
[insituser.com](http://insituser.com)  
Form: CPT0001

Client: DELTA SIMONS  
Job Title: CORBY



Estimated Soil Type  
(based on Robertson et. al. (1986))



Location: Corby  
Coordinates: 490907.410E - 290883.580N  
Ground Level: 106.75 m aD  
Cone & Rig Used: S15-CFIP.1093 - CPT 008  
Remarks: Test refused on total pressure.

Date of Test: 03/09/2015  
Date of Plot: 13/10/2015  
File Name: 1150281 - CPT 109  
Checked By: *[Signature]*

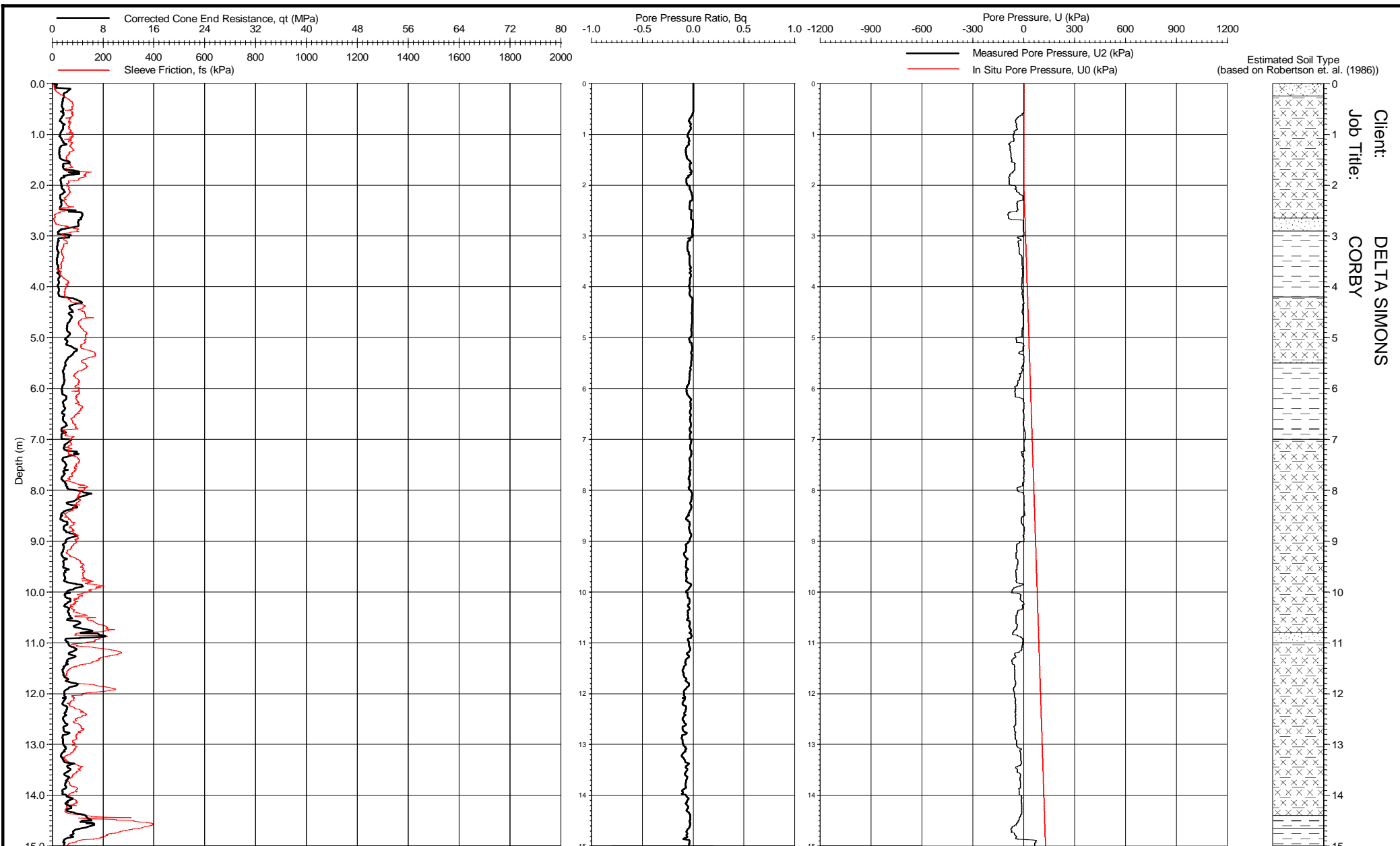
PCPT Zero Values		
Tip Zero Pre: 258 mV	Tip Zero Post: 264 mV	Tip Zero Difference: -2 %
Sleeve Zero Pre: 285 mV	Sleeve Zero Post: 283 mV	Sleeve Zero Difference: 1 %
Pore Pressure Zero Pre: 237 mV	Pore Pressure Zero Post: 226 mV	Pore Pressure Difference: 5 %
X Inclinator Zero Pre: 2376 mV	X Inclinator Zero Post: 2493 mV	X Inclinator Difference: -5 %
Y Inclinator Zero Pre: 2376 mV	Y Inclinator Zero Post: 2493 mV	Y Inclinator Difference: -5 %

**PIEZO CONE PENETRATION TEST**

**CPT 109**

[insitusi.com](http://insitusi.com)

Form: CPT0001



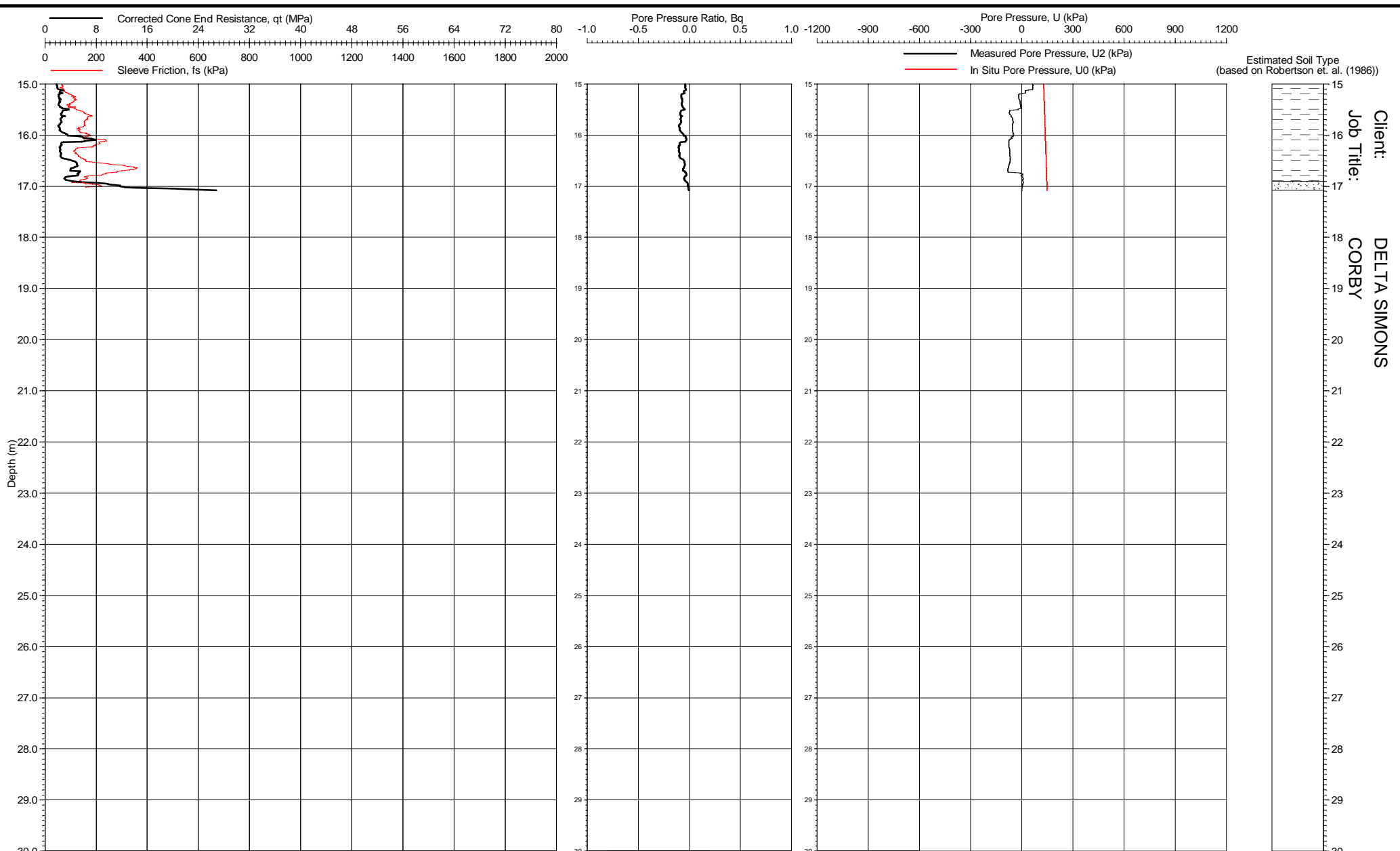
Client: DELTA SIMONS  
 Job Title: CORBY

Location: Corby  
 Coordinates: 491070.280E - 290870.590N  
 Ground Level: 104.04 m aD  
 Cone & Rig Used: S15-CFIP.1093 - CPT 008  
 Remarks: Test refused on total pressure.

Date of Test: 02/09/2015  
 Date of Plot: 13/10/2015  
 File Name: 1150281 - CPT 101  
 Checked By: *[Signature]*

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PIEZO CONE PENETRATION TEST  
**CPT 101**

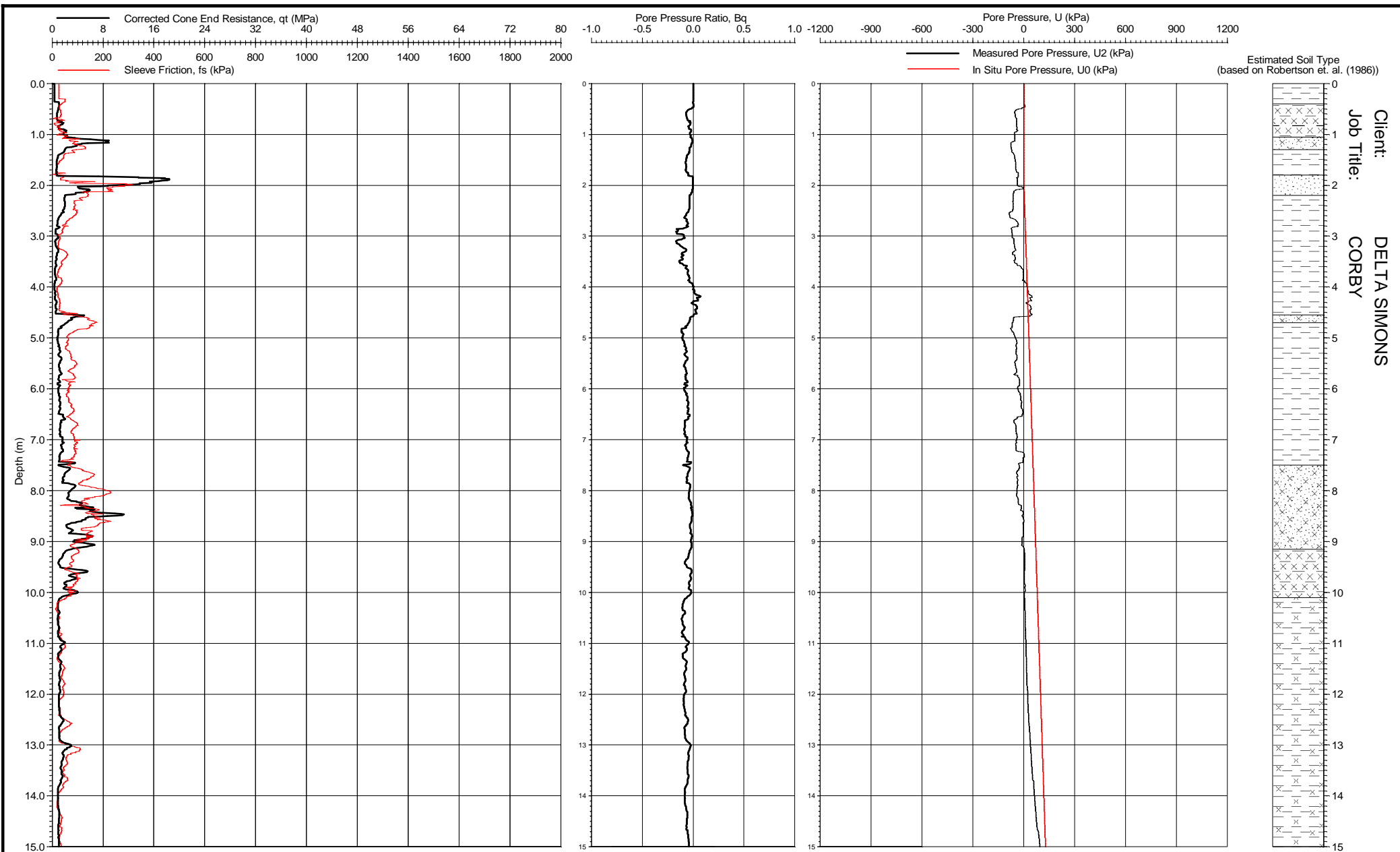


Location: Corby  
 Coordinates: 491070.280E - 290870.590N  
 Ground Level: 104.04 m aD  
 Cone & Rig Used: S15-CFIP.1093 - CPT 008  
 Remarks: Test refused on total pressure.

Date of Test: 02/09/2015  
 Date of Plot: 13/10/2015  
 File Name: 1150281 - CPT 101  
 Checked By: *[Signature]*

**IN SITU**  
 SITE INVESTIGATION  
 INSITUSI.COM

PIEZO CONE PENETRATION TEST  
**CPT 101**



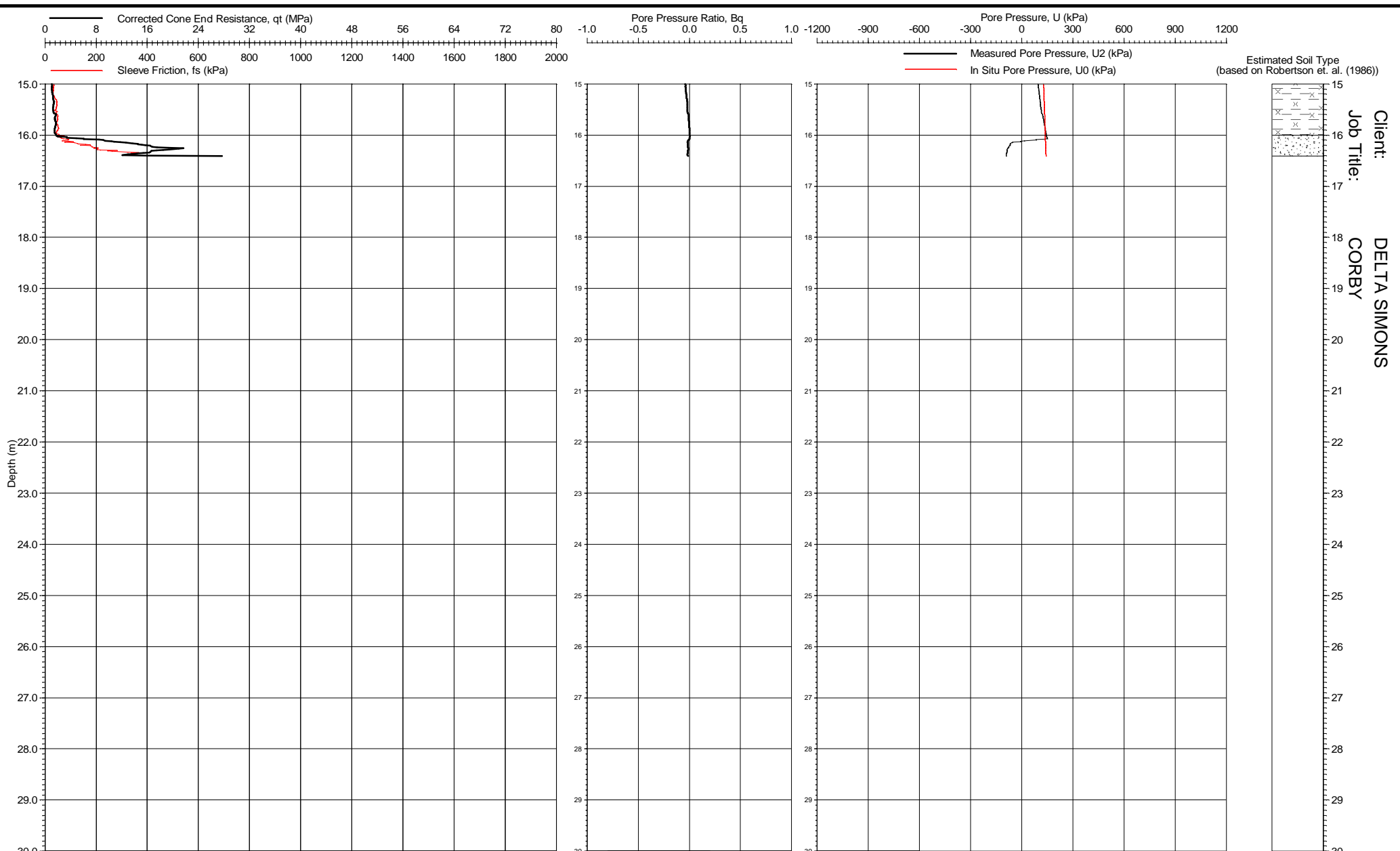
Client: DELTA SIMONS  
 Job Title: CORBY

Location: Corby  
 Coordinates: 491021.740E - 290918.910N  
 Ground Level: 105.55 m aD  
 Cone & Rig Used: S15-CFIP.1093 - CPT 008  
 Remarks: Test refused on total pressure.

Date of Test: 02/09/2015  
 Date of Plot: 13/10/2015  
 File Name: 1150281 - CPT 102  
 Checked By: *[Signature]*

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PIEZO CONE PENETRATION TEST  
**CPT 102**



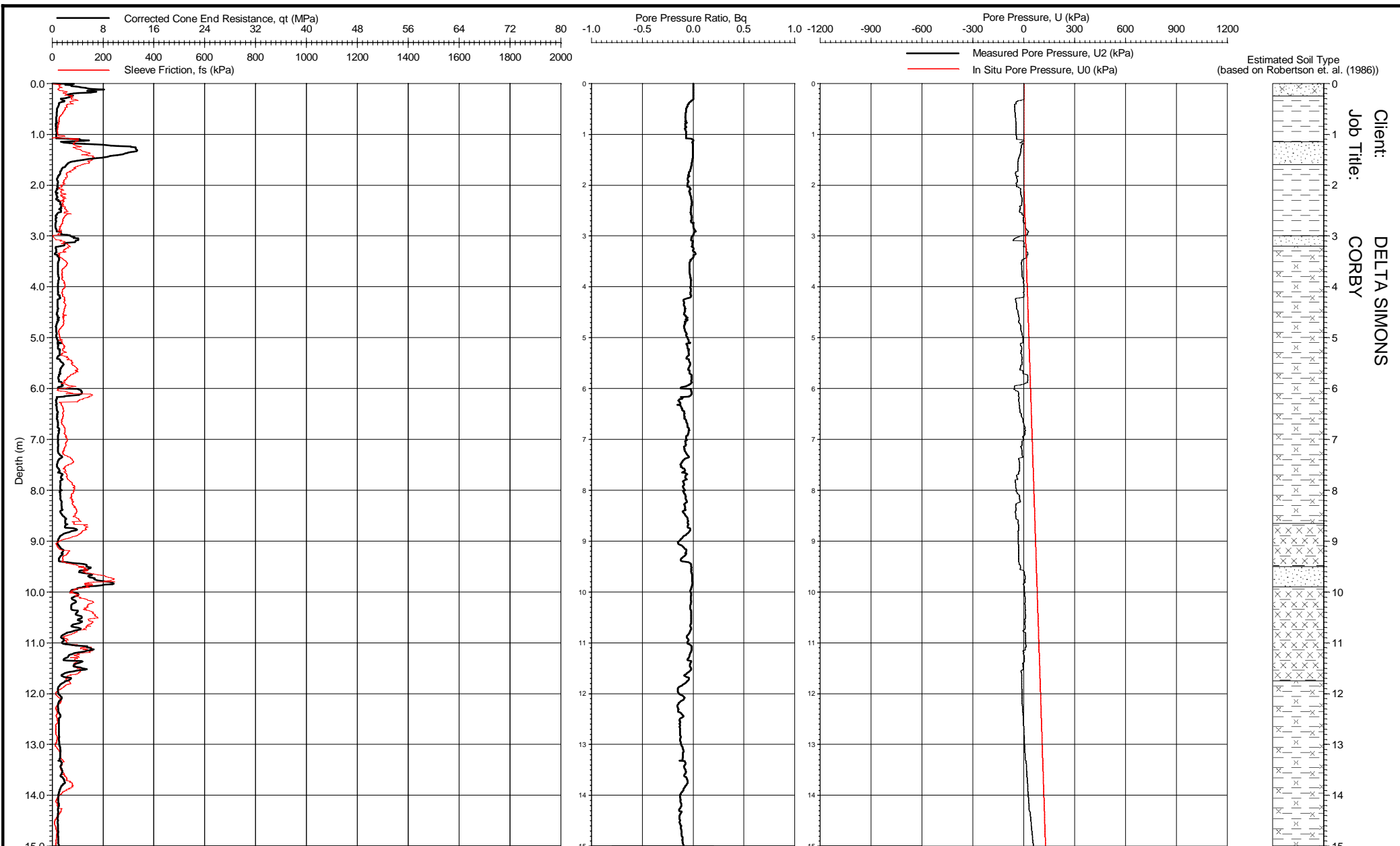
Client: DELTA SIMONS  
 Job Title: CORBY

Location: Corby  
 Coordinates: 491021.740E - 290918.910N  
 Ground Level: 105.55 m aD  
 Cone & Rig Used: S15-CFIP.1093 - CPT 008  
 Remarks: Test refused on total pressure.

Date of Test: 02/09/2015  
 Date of Plot: 13/10/2015  
 File Name: 1150281 - CPT 102  
 Checked By: *[Signature]*

**IN SITU**  
 SITE INVESTIGATION  
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PIEZO CONE PENETRATION TEST  
**CPT 102**



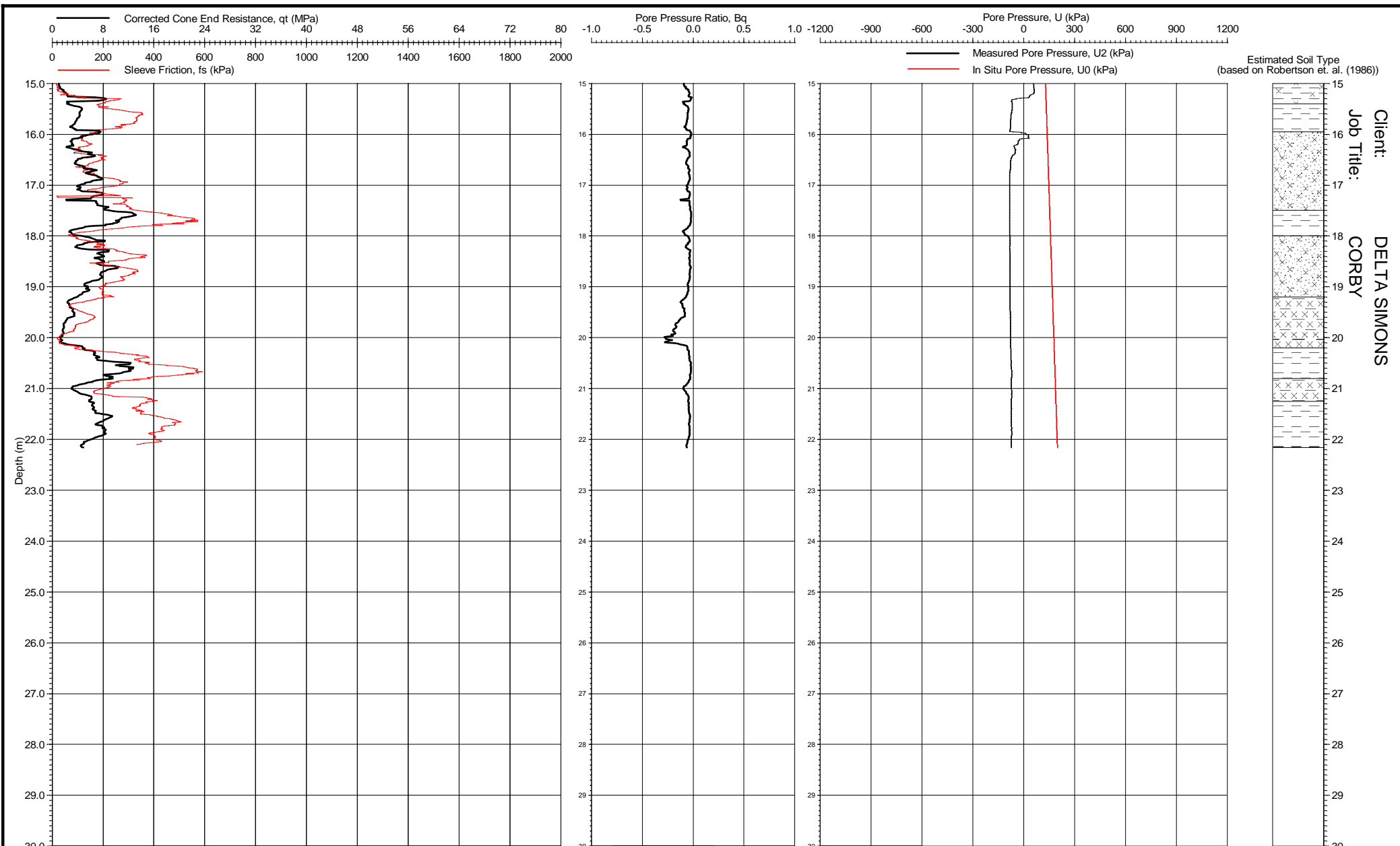
Client: DELTA SIMONS  
 Job Title: CORBY

Location: Corby  
 Coordinates: 490958.570E - 290901.230N  
 Ground Level: 106.26 m aD  
 Cone & Rig Used: S15-CFIP.1093 - CPT 008  
 Remarks: Test refused on total pressure.

Date of Test: 02/09/2015  
 Date of Plot: 13/10/2015  
 File Name: 1150281 - CPT 103  
 Checked By: *[Signature]*

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PIEZO CONE PENETRATION TEST  
**CPT 103**



Client: DELTA SIMONS  
 Job Title: CORBY

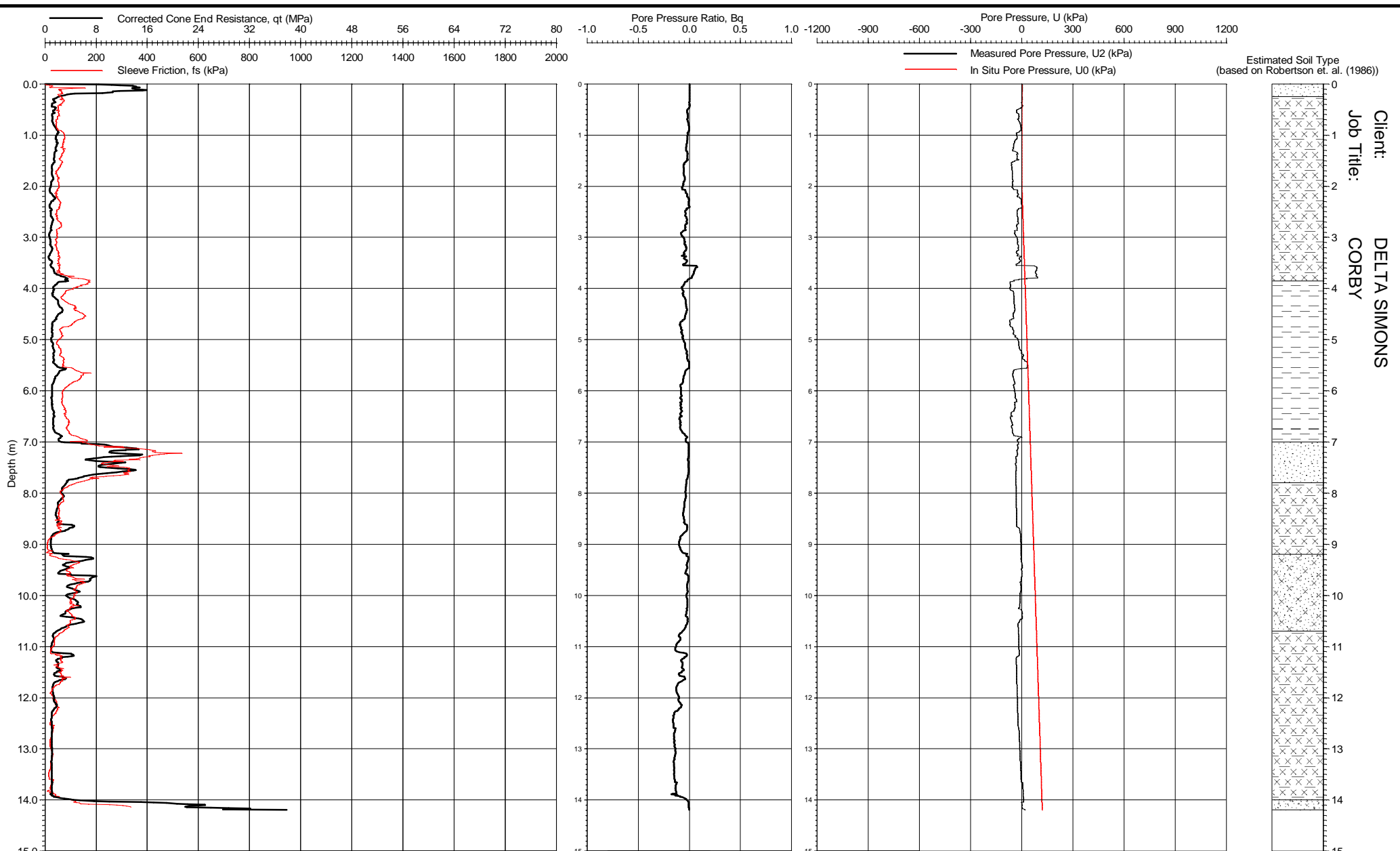
Location: Corby  
 Coordinates: 490958.570E - 290901.230N  
 Ground Level: 106.26 m aD  
 Cone & Rig Used: S15-CFIP.1093 - CPT 008  
 Remarks: Test refused on total pressure.

Date of Test: 02/09/2015  
 Date of Plot: 13/10/2015  
 File Name: 1150281 - CPT 103  
 Checked By: *[Signature]*

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PIEZO CONE PENETRATION TEST  
**CPT 103**





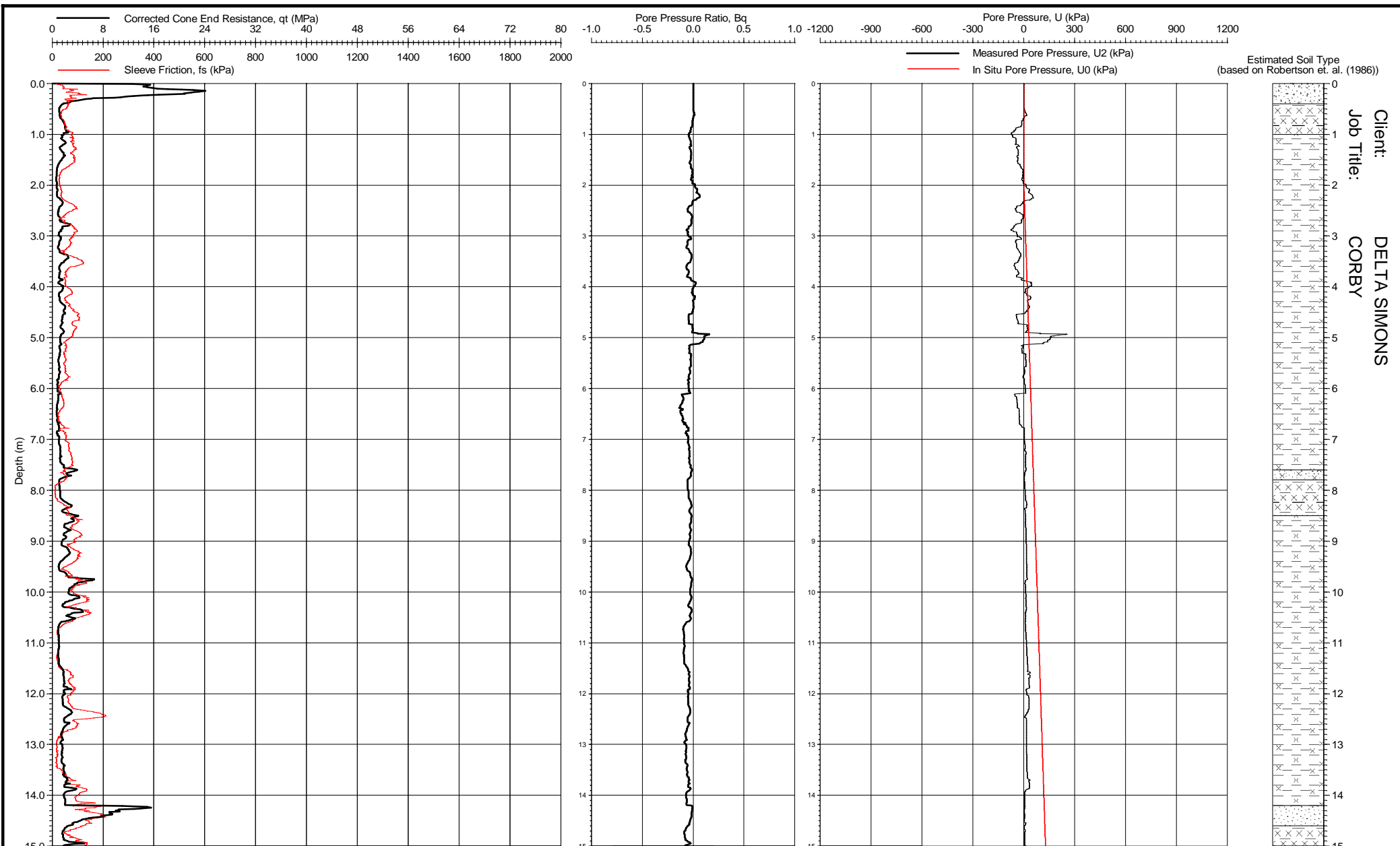
Client: DELTA SIMONS  
 Job Title: CORBY

Location: Corby  
 Coordinates: 490907.410E - 290883.580N  
 Ground Level: 106.75 m aD  
 Cone & Rig Used: S15-CFIP.1093 - CPT 008  
 Remarks: Test refused on total pressure.

Date of Test: 02/09/2015  
 Date of Plot: 13/10/2015  
 File Name: 1150281 - CPT 104  
 Checked By: *[Signature]*

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PIEZO CONE PENETRATION TEST  
**CPT 104**



Estimated Soil Type  
(based on Robertson et. al. (1986))

Client: DELTA SIMONS  
Job Title: CORBY

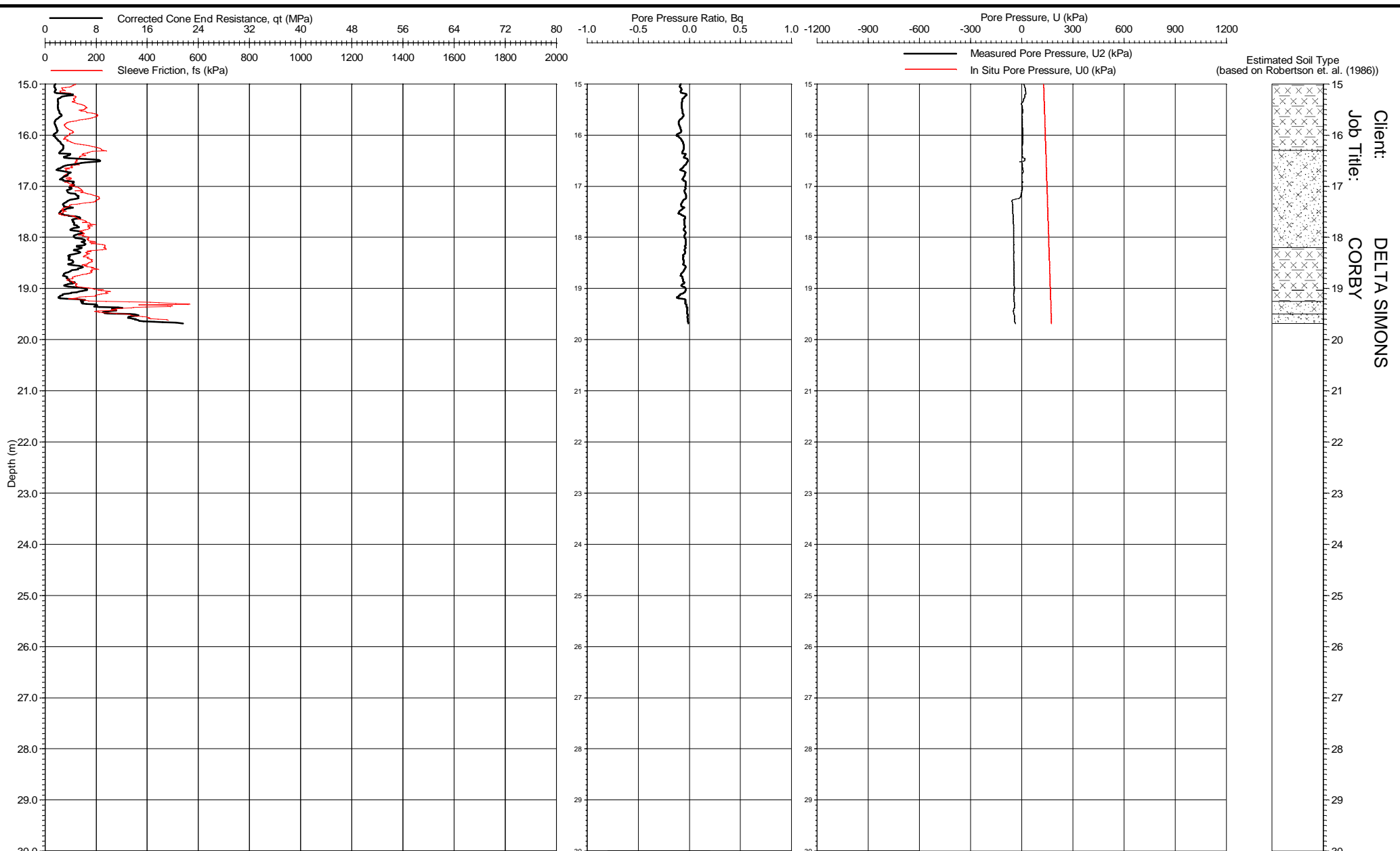
Location: Corby  
Coordinates: 490910.010E - 290839.530N  
Ground Level: 105.95 m aD  
Cone & Rig Used: S15-CFIP.1093 - CPT 008  
Remarks: Test refused on total pressure.

Date of Test: 02/09/2015  
Date of Plot: 13/10/2015  
File Name: 1150281 - CPT 105  
Checked By: *[Signature]*

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PIEZO CONE PENETRATION TEST  
**CPT 105**

Form: CPT0002



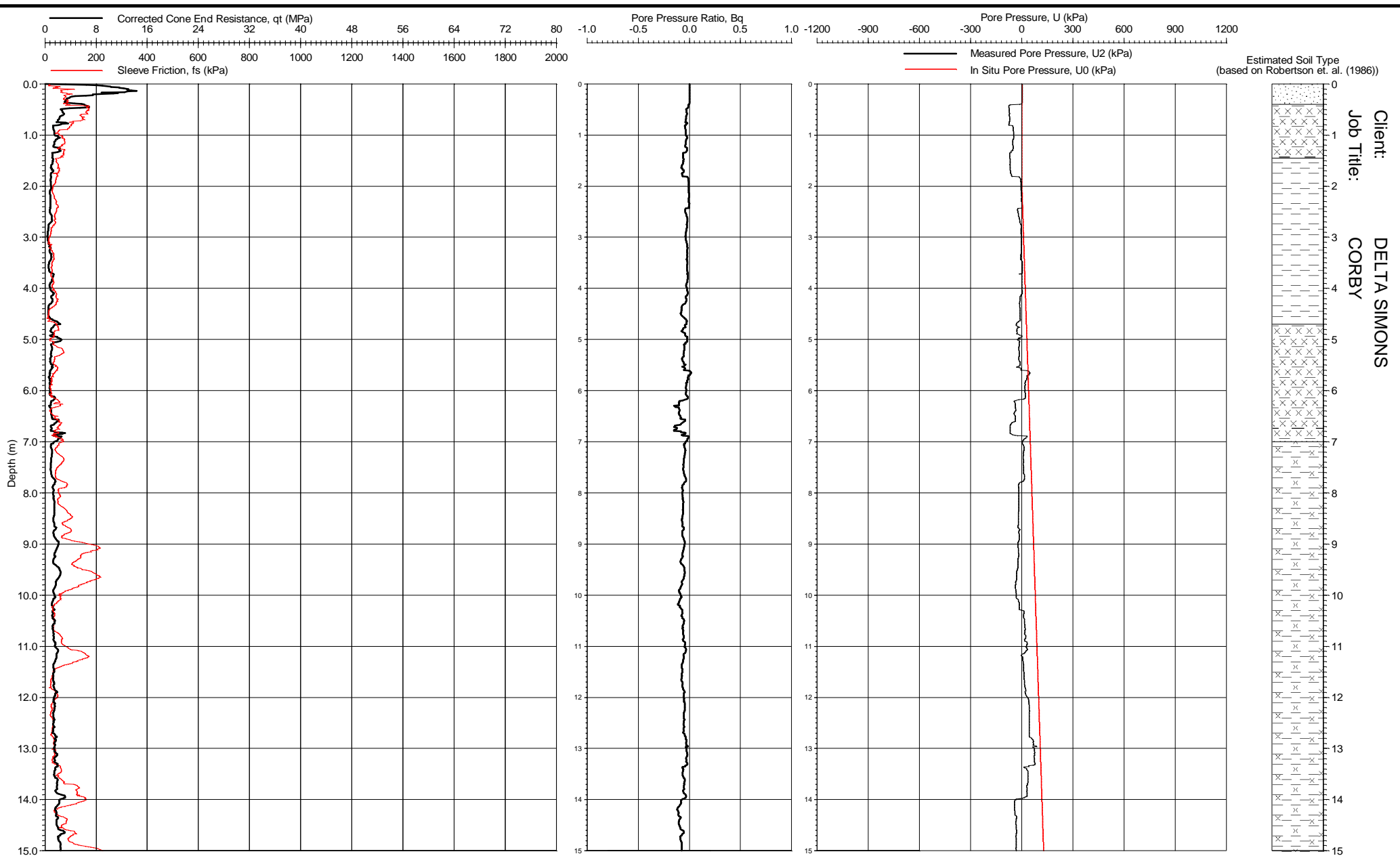
Location: Corby  
 Coordinates: 490910.010E - 290839.530N  
 Ground Level: 105.95 m aD  
 Cone & Rig Used: S15-CFIP.1093 - CPT 008  
 Remarks: Test refused on total pressure.

Date of Test: 02/09/2015  
 Date of Plot: 13/10/2015  
 File Name: 1150281 - CPT 105  
 Checked By: *[Signature]*

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PIEZO CONE PENETRATION TEST  
**CPT 105**

Form: CPT0002



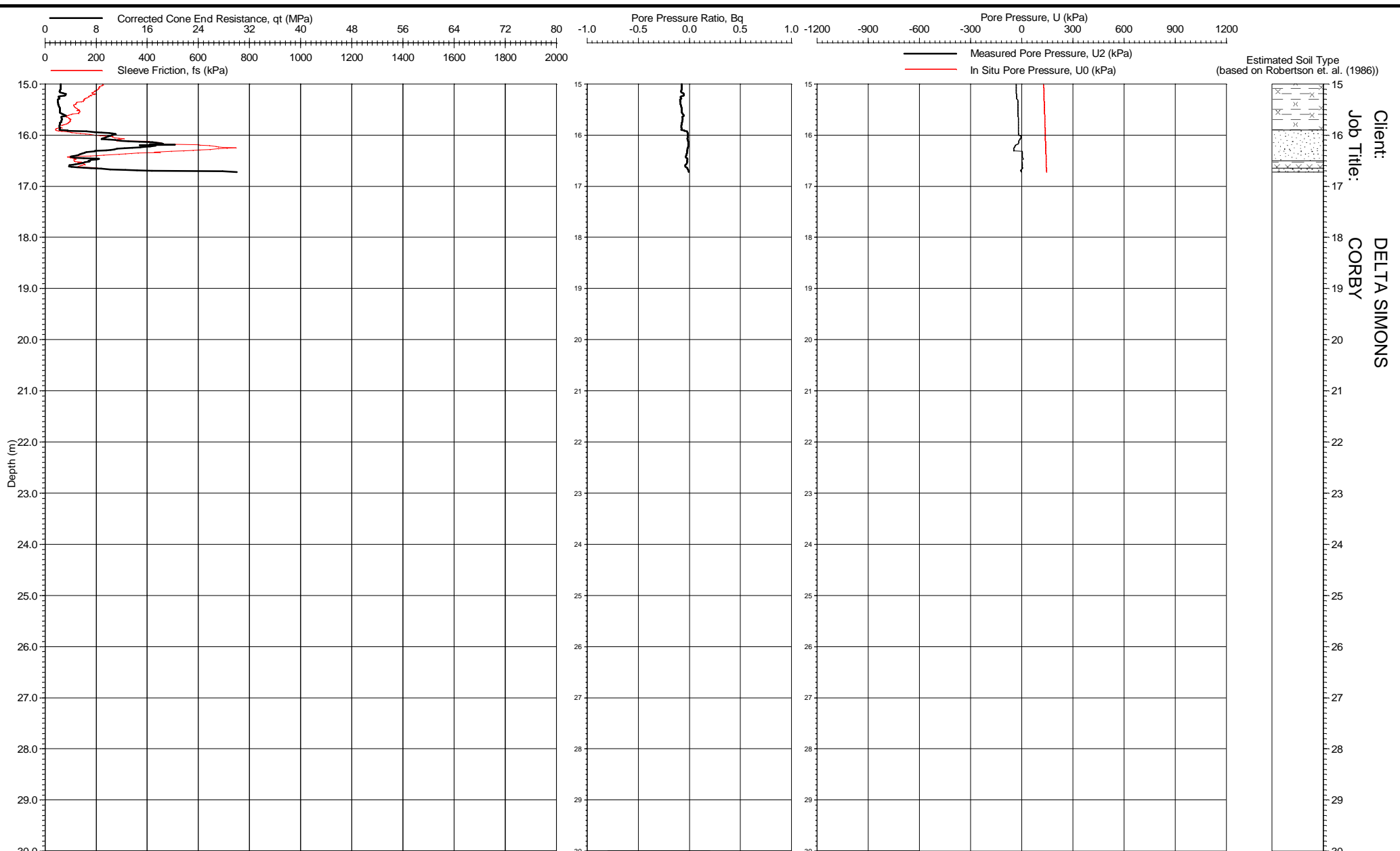
Client: DELTA SIMONS  
 Job Title: CORBY

Location: Corby  
 Coordinates: 490856.190E - 290812.940N  
 Ground Level: 106.48 m aD  
 Cone & Rig Used: S15-CFIP.1093 - CPT 008  
 Remarks: Test refused on total pressure.

Date of Test: 02/09/2015  
 Date of Plot: 13/10/2015  
 File Name: 1150281 - CPT 106  
 Checked By: *[Signature]*

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PIEZO CONE PENETRATION TEST  
**CPT 106**

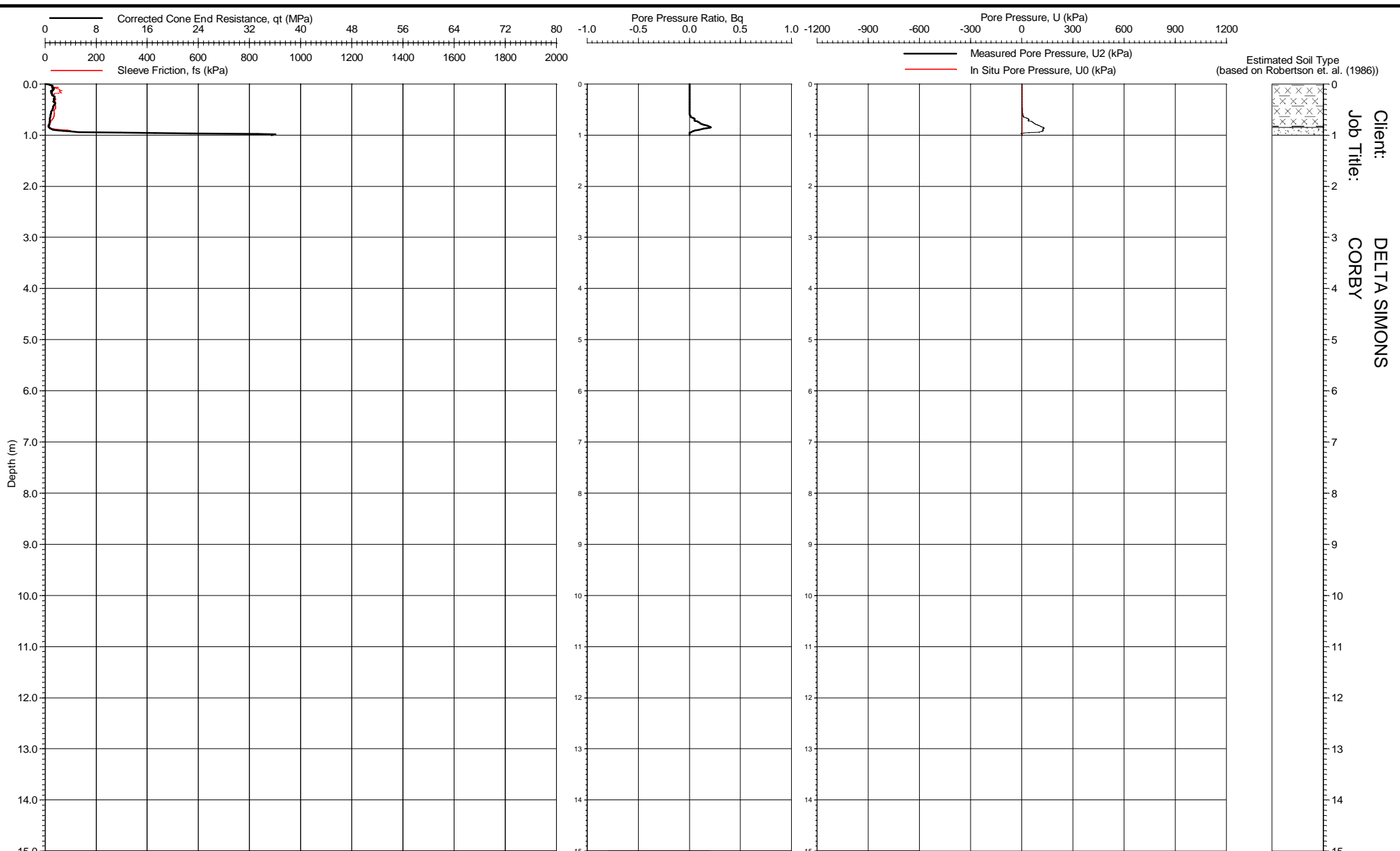


Location: Corby  
 Coordinates: 490856.190E - 290812.940N  
 Ground Level: 106.48 m aD  
 Cone & Rig Used: S15-CFIP.1093 - CPT 008  
 Remarks: Test refused on total pressure.

Date of Test: 02/09/2015  
 Date of Plot: 13/10/2015  
 File Name: 1150281 - CPT 106  
 Checked By: *[Signature]*

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 SITE INVESTIGATION  
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**PIEZO CONE PENETRATION TEST**  
**CPT 106**



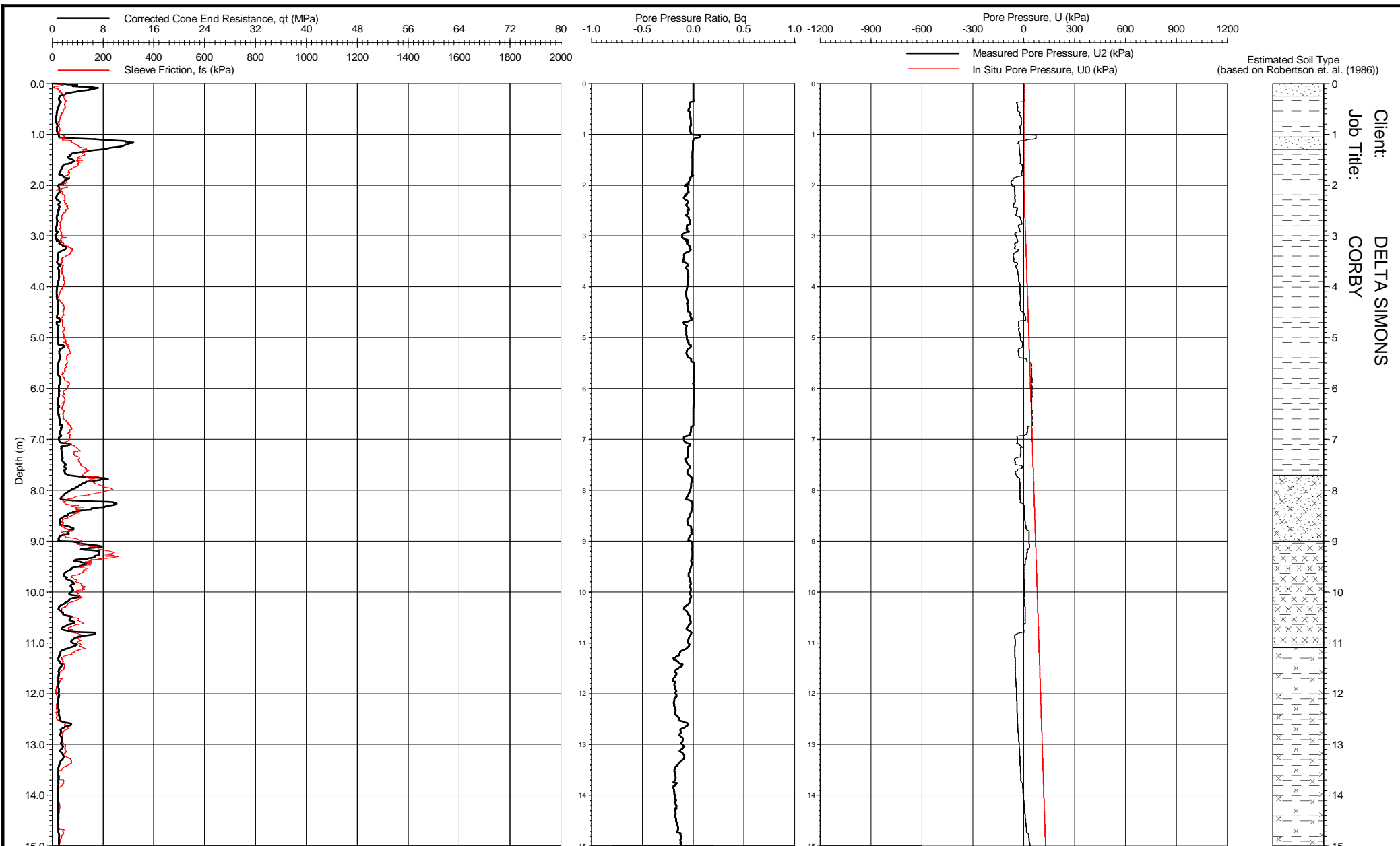
Client: DELTA SIMONS  
 Job Title: CORBY

Location: Corby  
 Coordinates: 490958.570E - 290901.230N  
 Ground Level: 106.26 m aD  
 Cone & Rig Used: S15-CFIP.1093 - CPT 008  
 Remarks: Test refused on total pressure.

Date of Test: 03/09/2015  
 Date of Plot: 13/10/2015  
 File Name: 1150281 - CPT 107  
 Checked By: *[Signature]*

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 SITE INVESTIGATION  
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PIEZO CONE PENETRATION TEST  
**CPT 107**



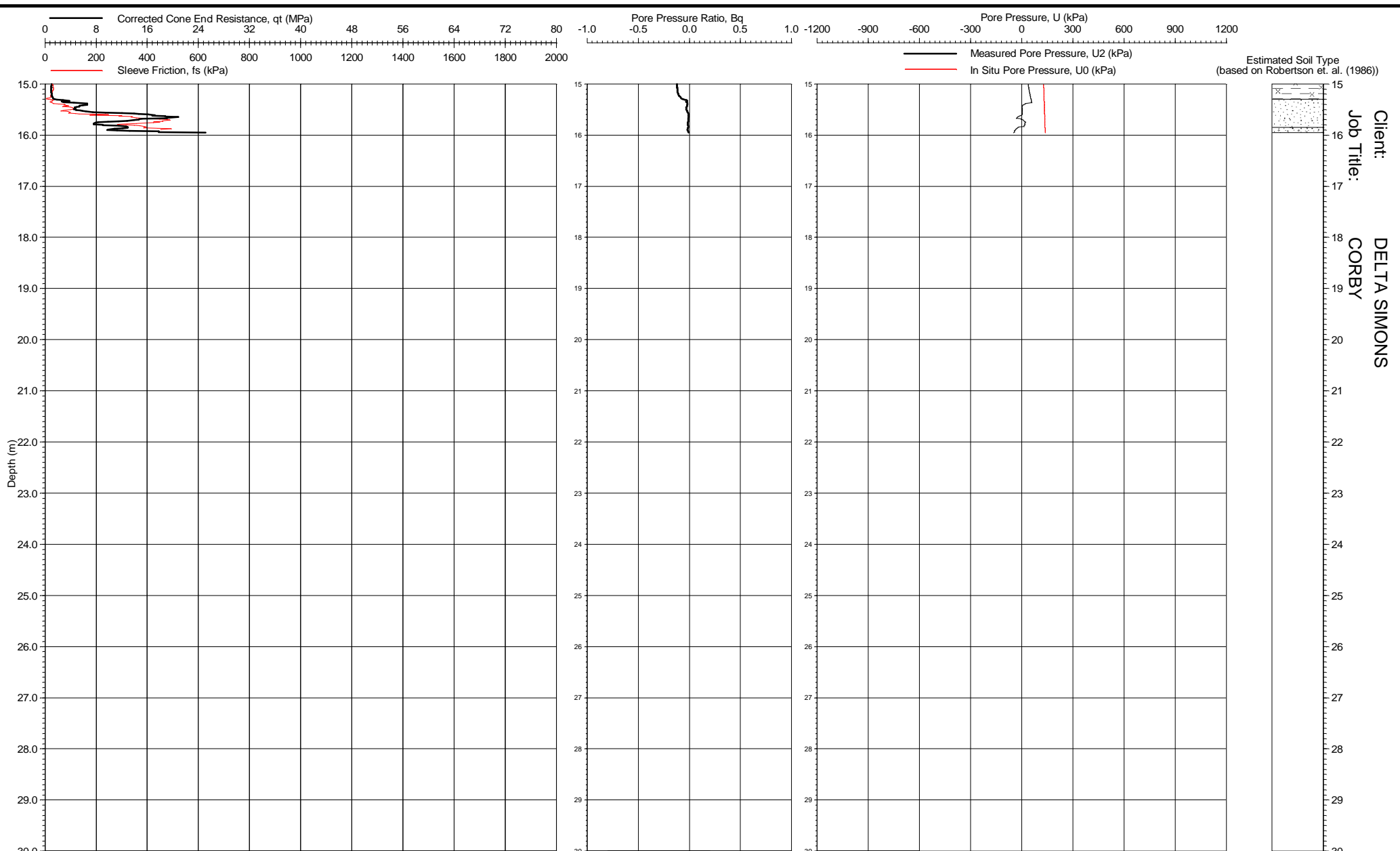
Client: DELTA SIMONS  
 Job Title: CORBY

Location: Corby  
 Coordinates: 490959.570E - 290902.230N  
 Ground Level: 106.26 m aD  
 Cone & Rig Used: S15-CFIP.1093 - CPT 008  
 Remarks: Test refused on total pressure.

Date of Test: 03/09/2015  
 Date of Plot: 13/10/2015  
 File Name: 1150281 - CPT 107A  
 Checked By: *[Signature]*

**IN SITU**  
 SITE INVESTIGATION  
 INSITUSI.COM

PIEZO CONE PENETRATION TEST  
**CPT 107A**



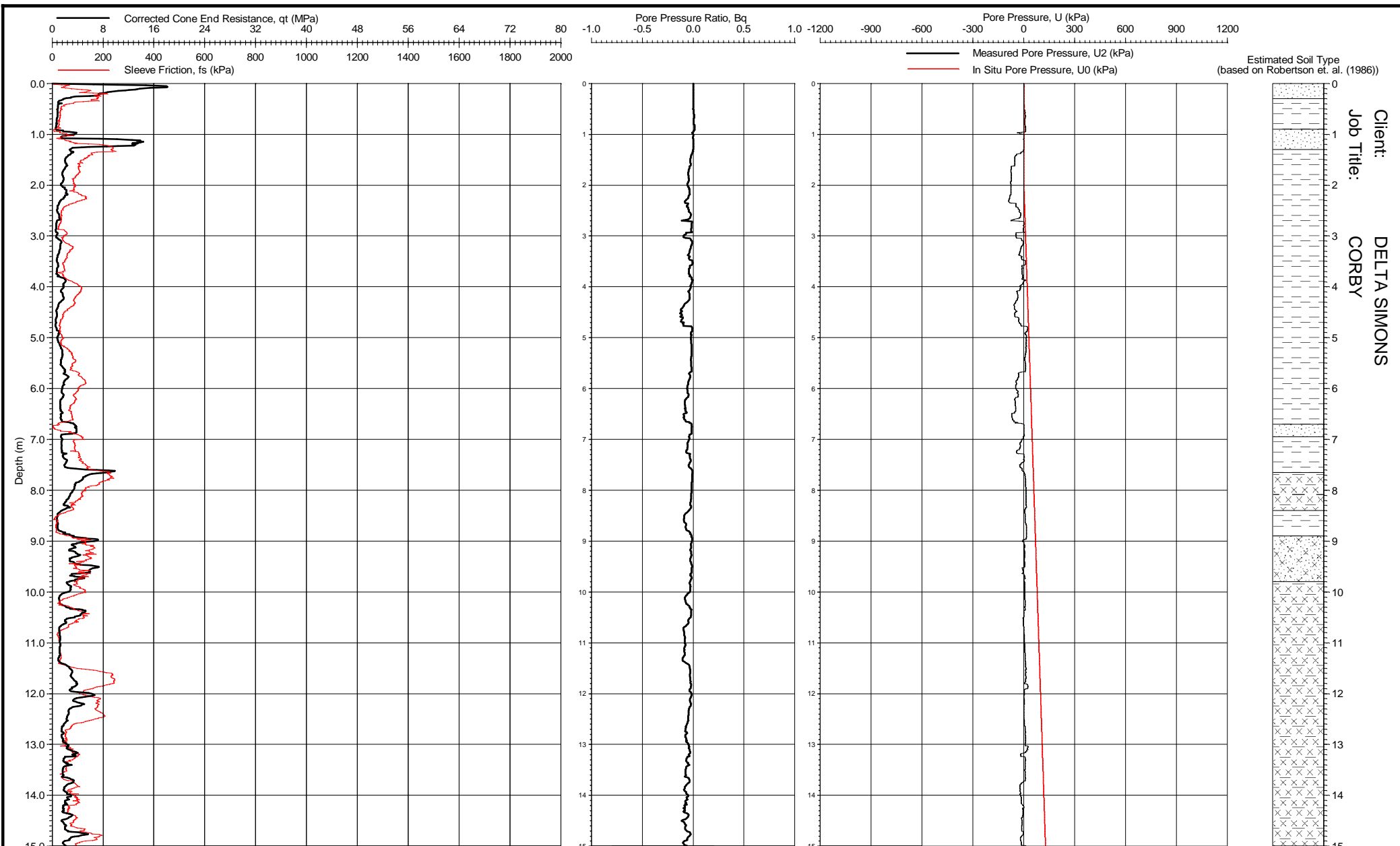
Location: Corby  
 Coordinates: 490959.570E - 290902.230N  
 Ground Level: 106.26 m aD  
 Cone & Rig Used: S15-CFIP.1093 - CPT 008  
 Remarks: Test refused on total pressure.

Date of Test: 03/09/2015  
 Date of Plot: 13/10/2015  
 File Name: 1150281 - CPT 107A  
 Checked By: *[Signature]*

**IN SITU**  
 SITE INVESTIGATION  
 INSITUSI.COM

PIEZO CONE PENETRATION TEST  
**CPT 107A**





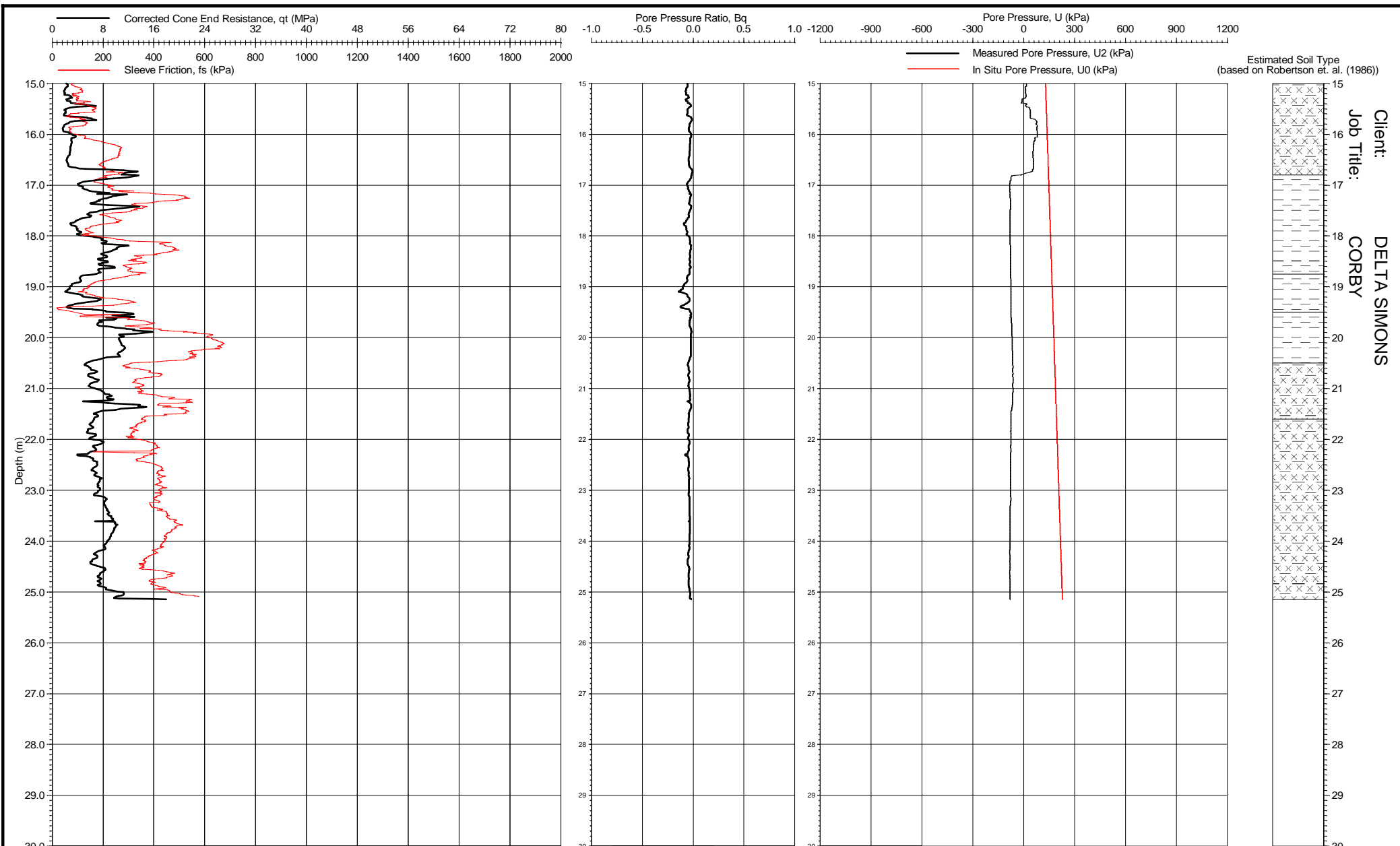
Location: Corby  
 Coordinates: 490947.750E - 290902.420N  
 Ground Level: 106.55 m aD  
 Cone & Rig Used: S15-CFIP.1093 - CPT 008  
 Remarks: Test refused on total pressure.

Date of Test: 03/09/2015  
 Date of Plot: 13/10/2015  
 File Name: 1150281 - CPT 108  
 Checked By: *[Signature]*

**IN SITU**  
 SITE INVESTIGATION  
 INSITUSI.COM

PIEZO CONE PENETRATION TEST  
**CPT 108**

Client: DELTA SIMONS  
 Job Title: CORBY



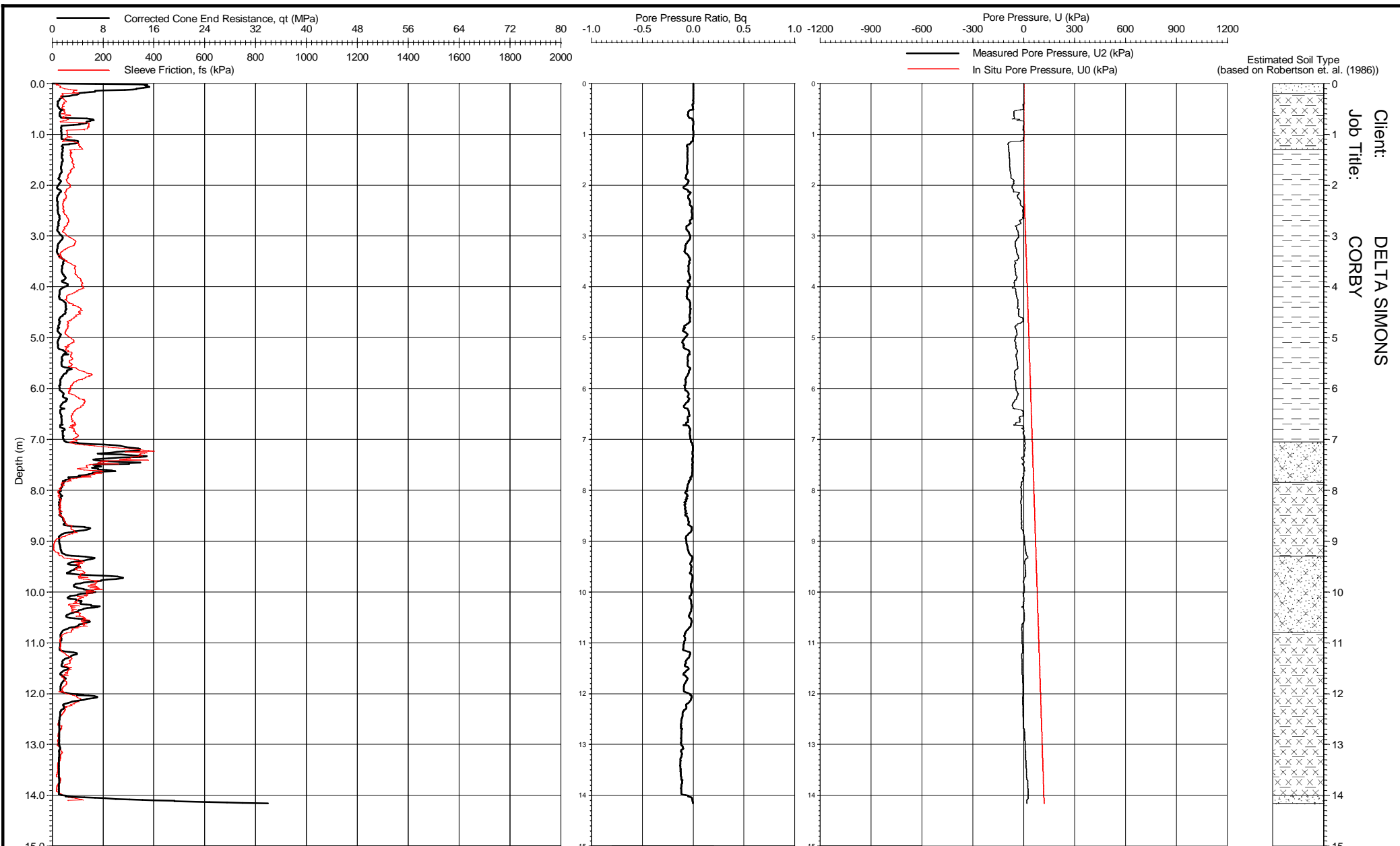
Client: DELTA SIMONS  
 Job Title: CORBY

Location: Corby  
 Coordinates: 490947.750E - 290902.420N  
 Ground Level: 106.55 m aD  
 Cone & Rig Used: S15-CFIP.1093 - CPT 008  
 Remarks: Test refused on total pressure.

Date of Test: 03/09/2015  
 Date of Plot: 13/10/2015  
 File Name: 1150281 - CPT 108  
 Checked By: *[Signature]*

**IN SITU**  
 SITE INVESTIGATION  
 INSITUSI.COM

PIEZO CONE PENETRATION TEST  
**CPT 108**



Client: DELTA SIMONS  
 Job Title: CORBY

Location: Corby  
 Coordinates: 490907.410E - 290883.580N  
 Ground Level: 106.75 m aD  
 Cone & Rig Used: S15-CFIP.1093 - CPT 008  
 Remarks: Test refused on total pressure.

Date of Test: 03/09/2015  
 Date of Plot: 13/10/2015  
 File Name: 1150281 - CPT 109  
 Checked By: *[Signature]*

**IN SITU**  
 SITE INVESTIGATION  
 INSITUSI.COM

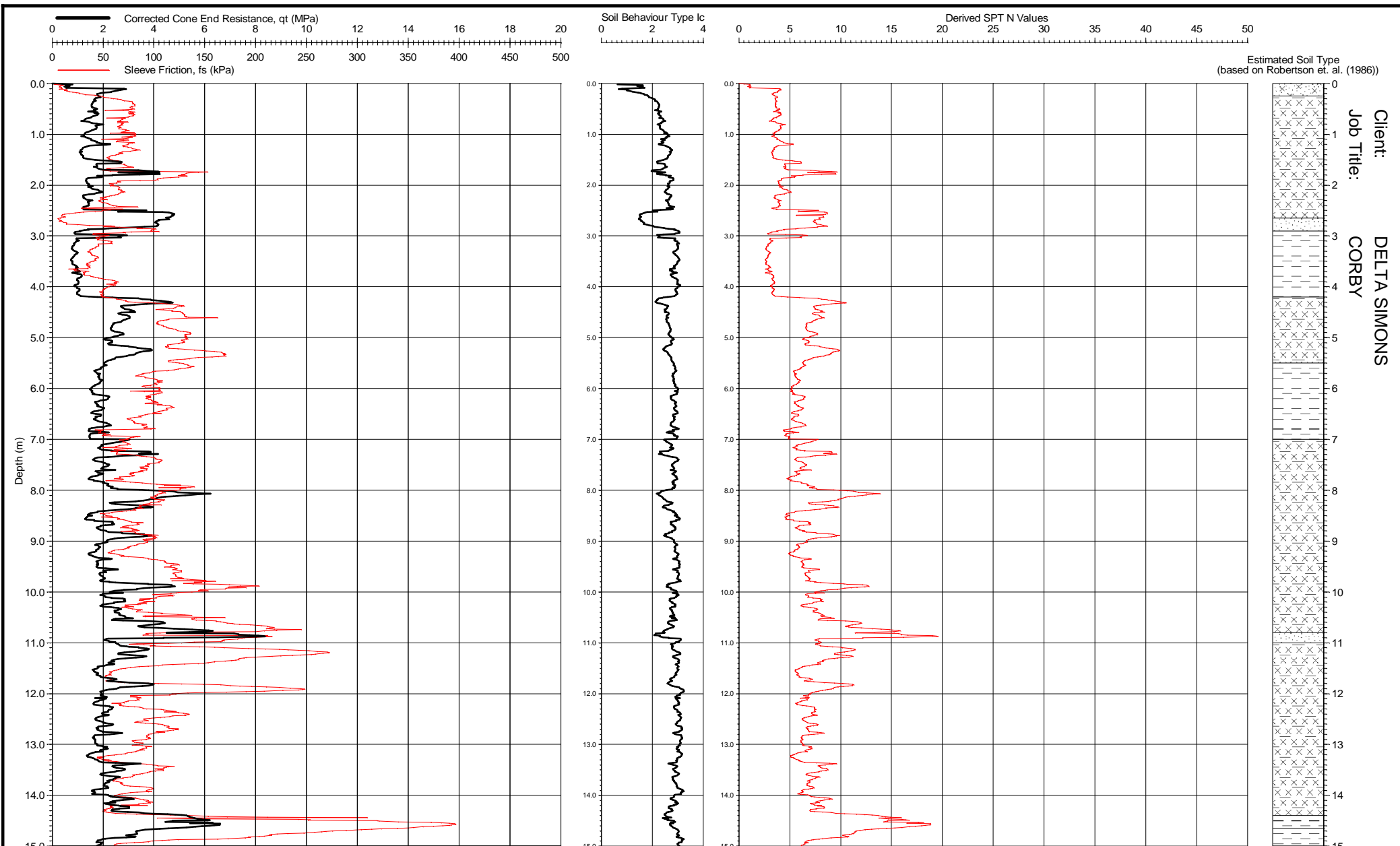
PIEZO CONE PENETRATION TEST  
**CPT 109**

## APPENDIX C

### CPT DERIVED GEOTECHNICAL PARAMETERS

#### LIST OF FIGURES

Description	Pages Included
CPT 101 – CPT 109 (Printed on Form CPT0003) Soil Behaviour Type and N Value	17
CPT 101 – CPT 109 (Printed on Form CPT0004) Relative Density and Shear Strength	17
CPT 101 – CPT 109 (Printed on Form CPT0005) Fines Content and Friction Angle	17



Estimated Soil Type  
(based on Robertson et. al. (1986))

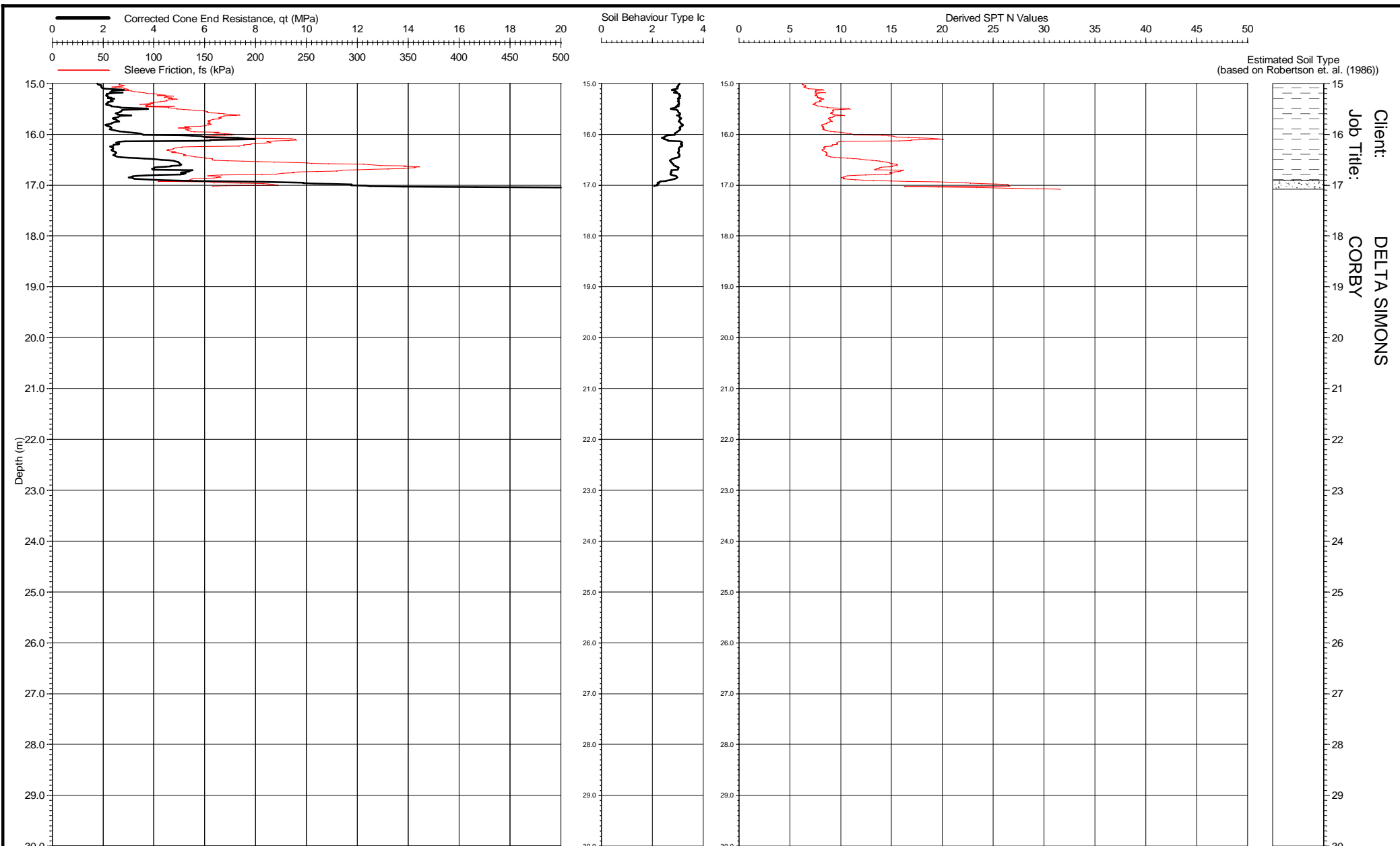
Client: DELTA SIMONS  
Job Title: CORBY

Location: Corby  
Coordinates: 491070.280E - 290870.590N  
Ground Level: 104.04 m aD  
Cone & Rig Used: S15-CFIP.1093 - CPT 008  
Remarks: Test refused on total pressure.

Date of Test: 02/09/2015  
Date of Plot: 13/10/2015  
File Name: 1150281 - CPT 101  
Checked By: *[Signature]*

**IN SITU** PIEZO CONE PENETRATION TEST  
SITE INVESTIGATION CPT 101  
[insitushi.com](http://insitushi.com)

Form: CPT0003

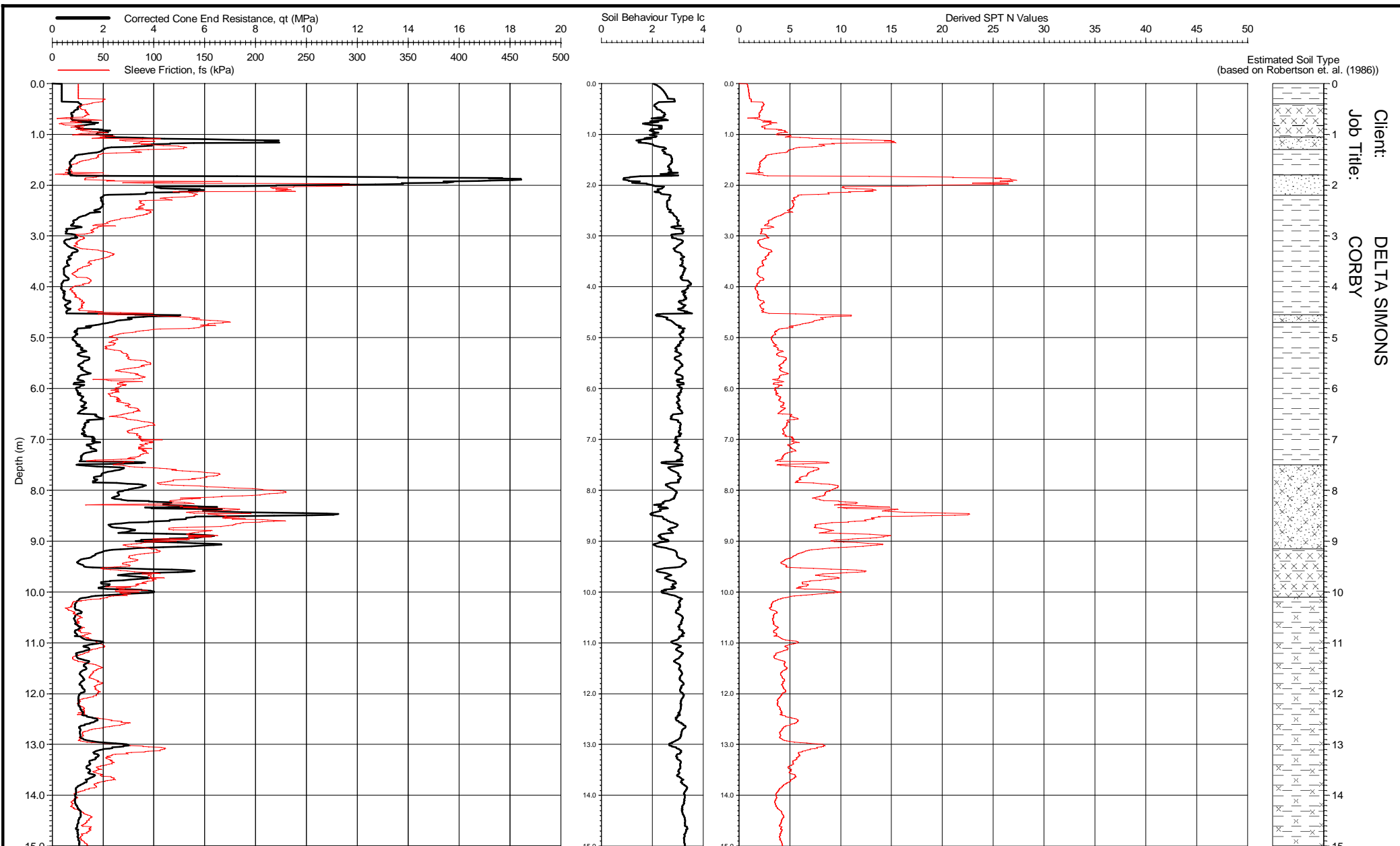


Location: Corby  
 Coordinates: 491070.280E - 290870.590N  
 Ground Level: 104.04 m aD  
 Cone & Rig Used: S15-CFIP.1093 - CPT 008  
 Remarks: Test refused on total pressure.

Date of Test: 02/09/2015  
 Date of Plot: 13/10/2015  
 File Name: 1150281 - CPT 101  
 Checked By: *R. Hill*

**IN SITU** PIEZO CONE PENETRATION TEST  
 SITE INVESTIGATION CPT 101  
 insitusi.com

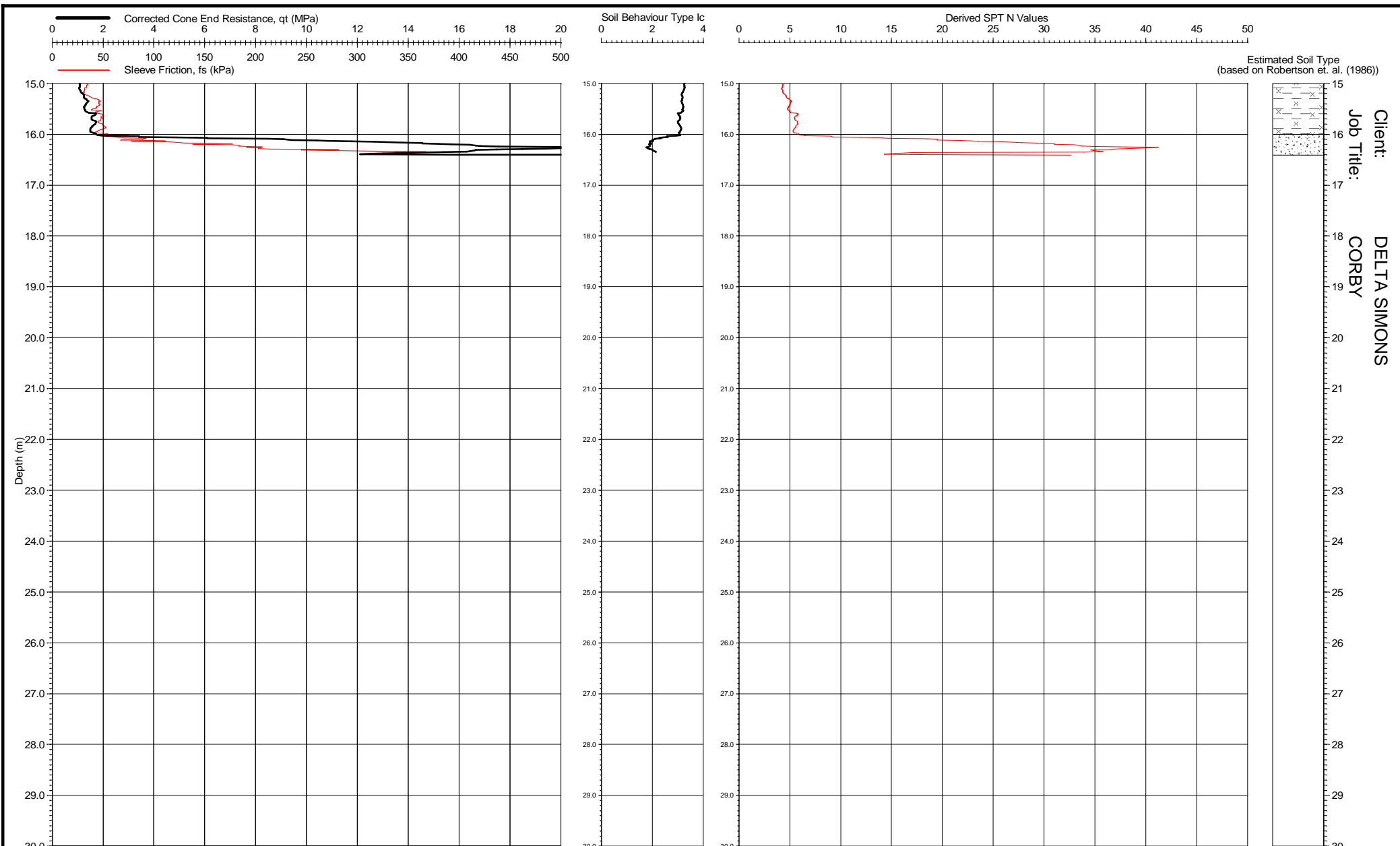
Form: CPT0003



Location: Corby  
 Coordinates: 491021.740E - 290918.910N  
 Ground Level: 105.55 m aD  
 Cone & Rig Used: S15-CFIP.1093 - CPT 008  
 Remarks: Test refused on total pressure.

Date of Test: 02/09/2015  
 Date of Plot: 13/10/2015  
 File Name: 1150281 - CPT 102  
 Checked By: *R. Hall*

**IN SITU** PIEZO CONE PENETRATION TEST  
 SITE INVESTIGATION CPT 102  
 insitusi.com



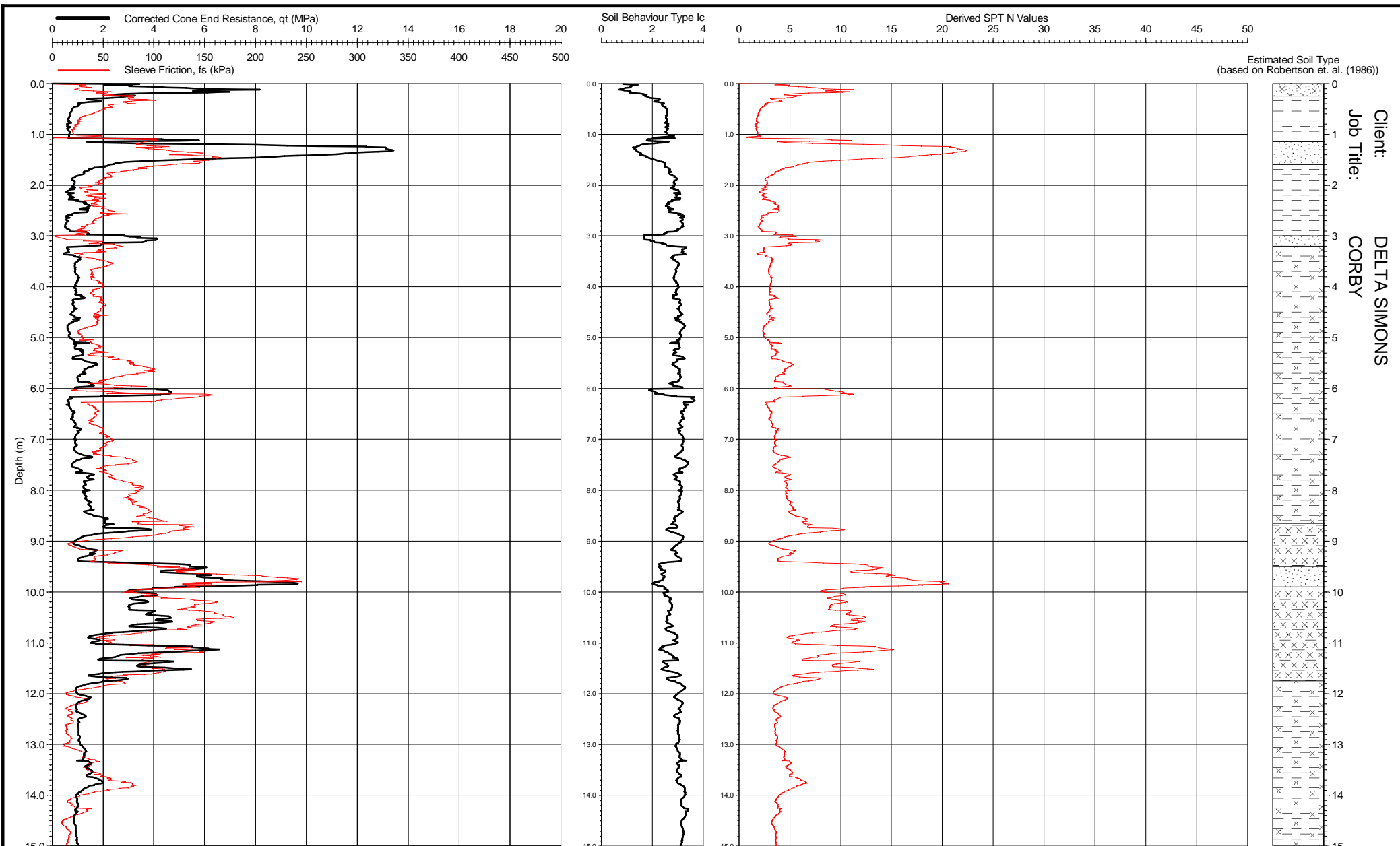
Location: Corby  
 Coordinates: 491021.740E - 290918.910N  
 Ground Level: 105.55 m aD  
 Cone & Rig Used: S15-CFIP.1093 - CPT 008  
 Remarks: Test refused on total pressure.

Date of Test: 02/09/2015  
 Date of Plot: 13/10/2015  
 File Name: 1150281 - CPT 102  
 Checked By: *R. Hill*

**IN SITU** PIEZO CONE PENETRATION TEST  
 SITE INVESTIGATION CPT 102  
 insitusi.com

Client: DELTA SIMONS  
 Job Title: CORBY





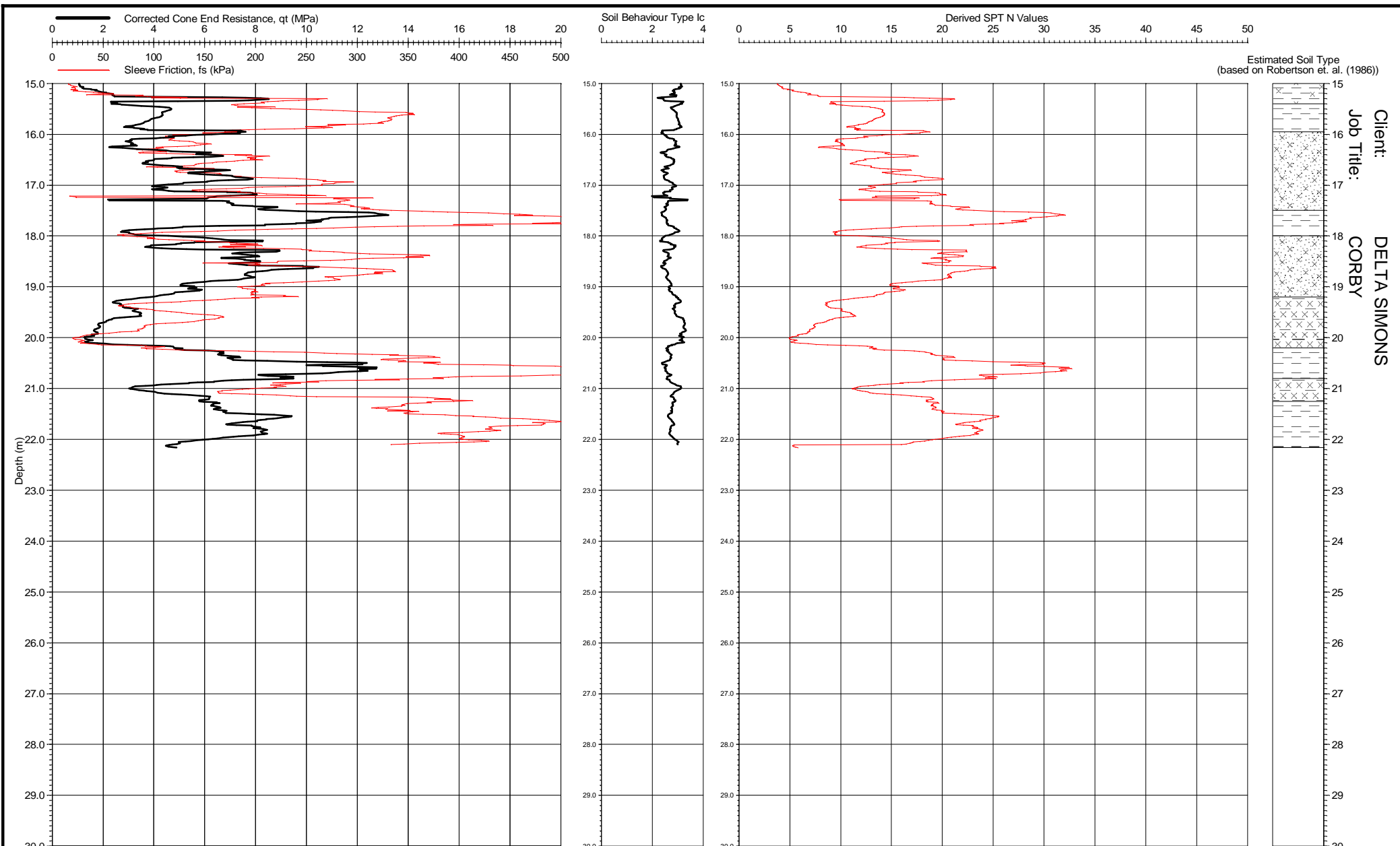
Location: Corby  
 Coordinates: 490958.570E - 290901.230N  
 Ground Level: 106.26 m aD  
 Cone & Rig Used: S15-CFIP.1093 - CPT 008  
 Remarks: Test refused on total pressure.

Date of Test: 02/09/2015  
 Date of Plot: 13/10/2015  
 File Name: 1150281 - CPT 103  
 Checked By: *[Signature]*

**IN SITU** PIEZO CONE PENETRATION TEST  
 SITE INVESTIGATION  
 insitusi.com  
 CPT 103

Form: CPT0003

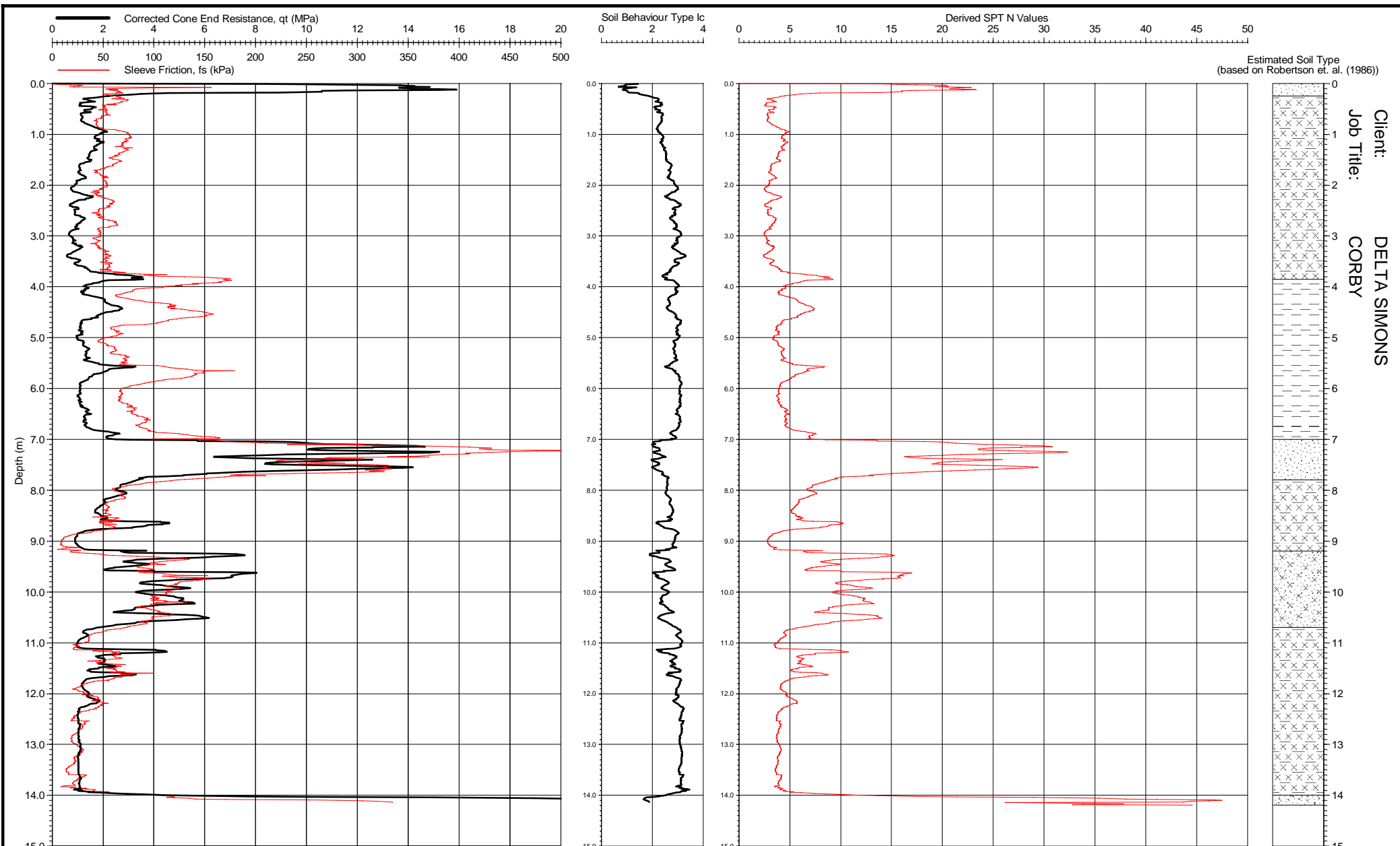
Client: DELTA SIMONS  
 Job Title: CORBY



Location: Corby  
 Coordinates: 490958.570E - 290901.230N  
 Ground Level: 106.26 m aD  
 Cone & Rig Used: S15-CFIP.1093 - CPT 008  
 Remarks: Test refused on total pressure.

Date of Test: 02/09/2015  
 Date of Plot: 13/10/2015  
 File Name: 1150281 - CPT 103  
 Checked By: *[Signature]*

**IN SITU** PIEZO CONE PENETRATION TEST  
 SITE INVESTIGATION CPT 103  
 insitusi.com

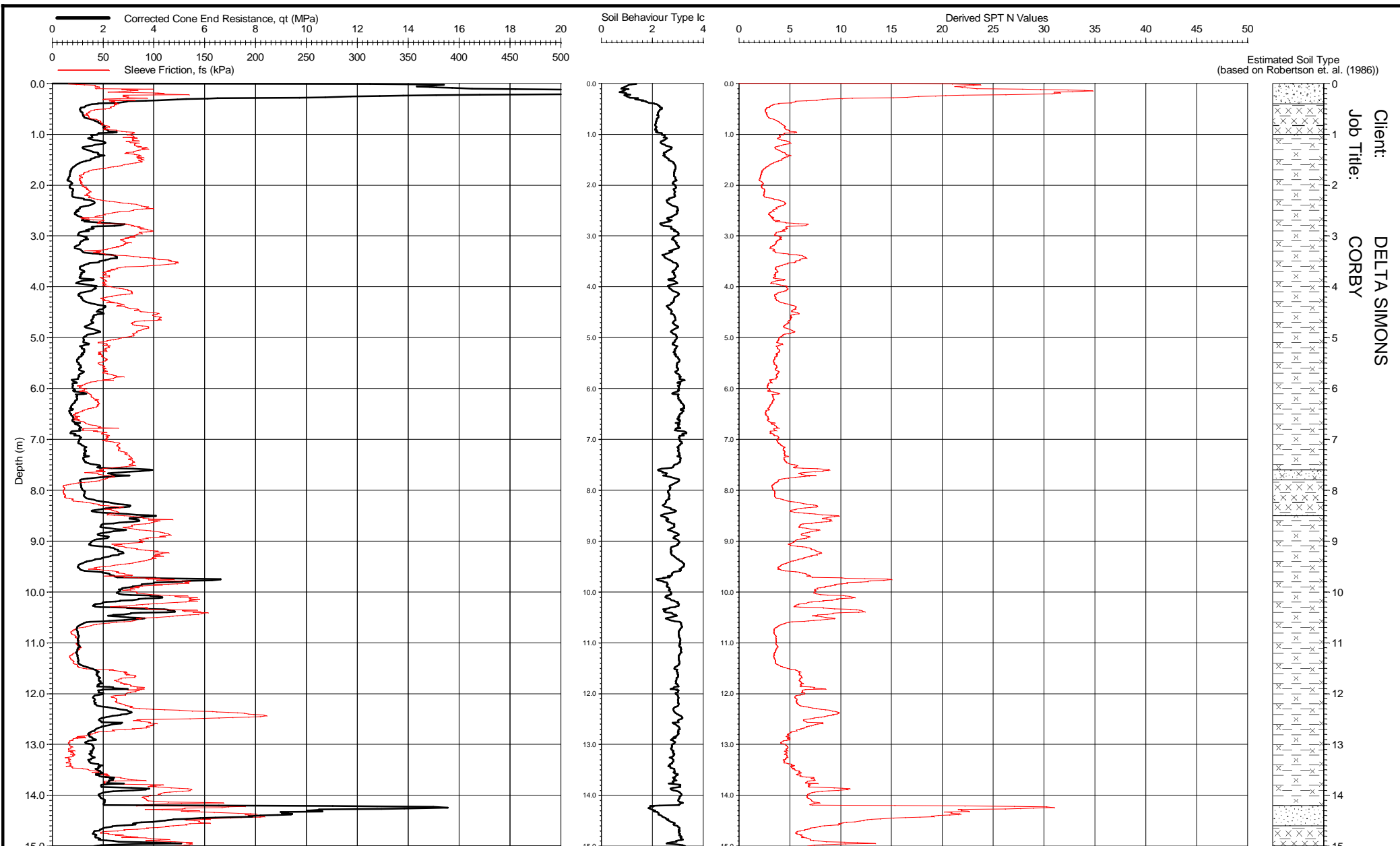


Client: DELTA SIMONS  
 Job Title: CORBY

Location: Corby  
 Coordinates: 490907.410E - 290883.580N  
 Ground Level: 106.75 m aD  
 Cone & Rig Used: S15-CFIP.1093 - CPT 008  
 Remarks: Test refused on total pressure.

Date of Test: 02/09/2015  
 Date of Plot: 13/10/2015  
 File Name: 1150281 - CPT 104  
 Checked By: *[Signature]*

**IN SITU** PIEZO CONE PENETRATION TEST  
 SITE INVESTIGATION CPT 104  
 insitusi.com

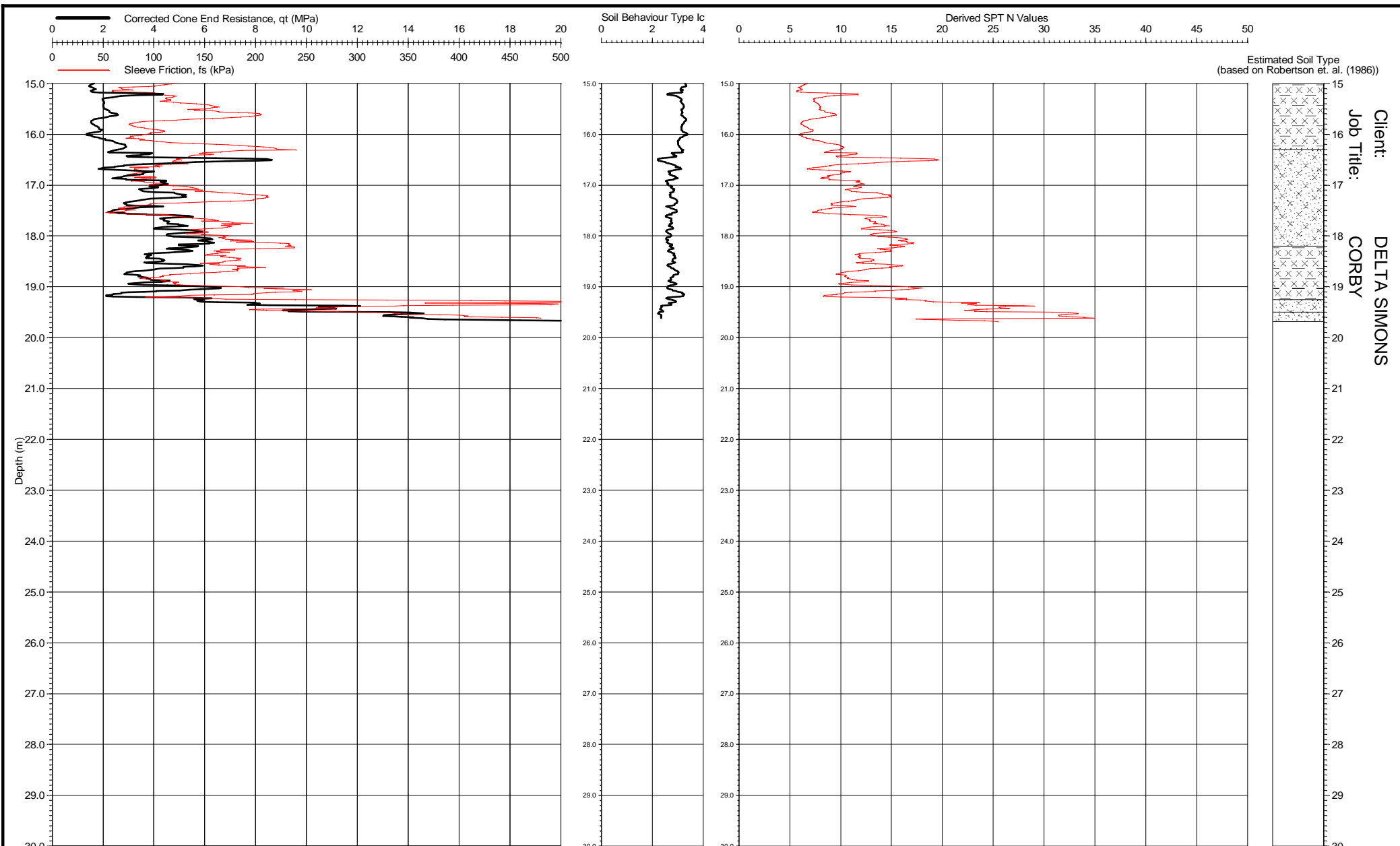


Client: DELTA SIMONS  
 Job Title: CORBY

Location: Corby  
 Coordinates: 490910.010E - 290839.530N  
 Ground Level: 105.95 m aD  
 Cone & Rig Used: S15-CFIP.1093 - CPT 008  
 Remarks: Test refused on total pressure.

Date of Test: 02/09/2015  
 Date of Plot: 13/10/2015  
 File Name: 1150281 - CPT 105  
 Checked By: *R. [Signature]*

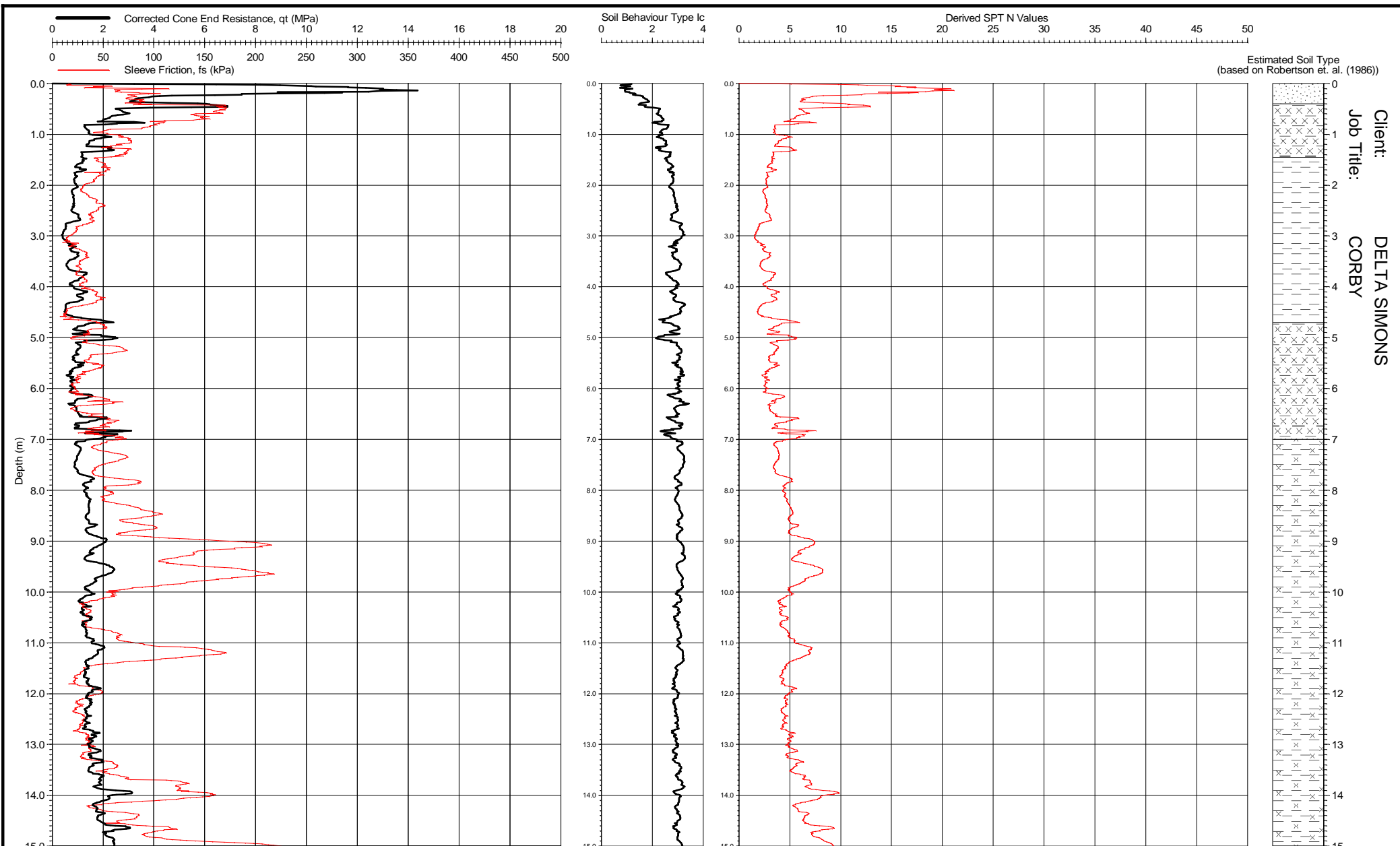
**IN SITU** PIEZO CONE PENETRATION TEST  
 SITE INVESTIGATION CPT 105  
 insitusi.com



Location: Corby  
 Coordinates: 490910.010E - 290839.530N  
 Ground Level: 105.95 m aD  
 Cone & Rig Used: S15-CFIP.1093 - CPT 008  
 Remarks: Test refused on total pressure.

Date of Test: 02/09/2015  
 Date of Plot: 13/10/2015  
 File Name: 1150281 - CPT 105  
 Checked By: *R. [Signature]*

**IN SITU** PIEZO CONE PENETRATION TEST  
 SITE INVESTIGATION CPT 105  
 insitusi.com

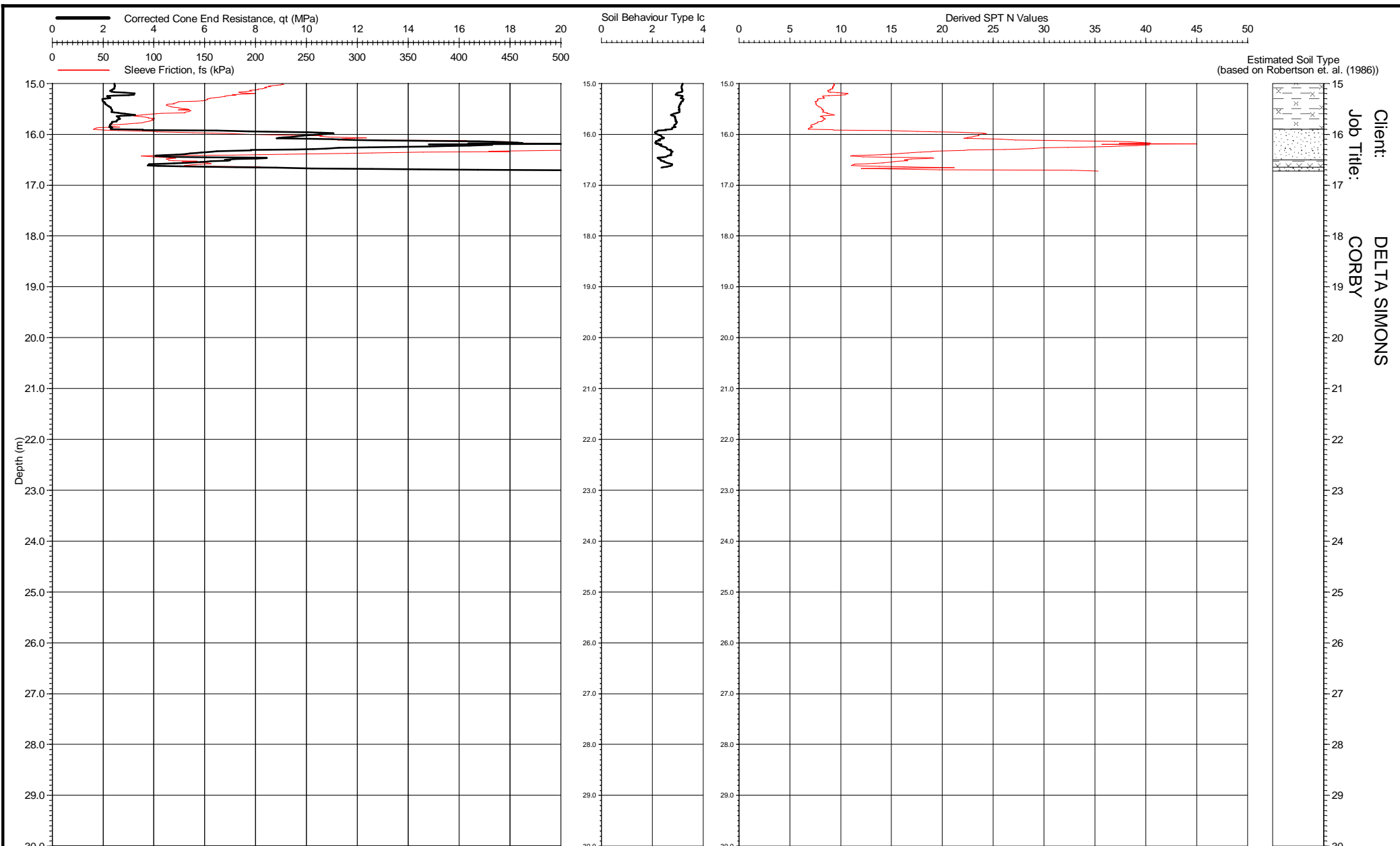


Client: DELTA SIMONS  
 Job Title: CORBY

Location: Corby  
 Coordinates: 490856.190E - 290812.940N  
 Ground Level: 106.48 m aD  
 Cone & Rig Used: S15-CFIP.1093 - CPT 008  
 Remarks: Test refused on total pressure.

Date of Test: 02/09/2015  
 Date of Plot: 13/10/2015  
 File Name: 1150281 - CPT 106  
 Checked By: *R. Hill*

**IN SITU** PIEZO CONE PENETRATION TEST  
 SITE INVESTIGATION CPT 106  
 insitusi.com

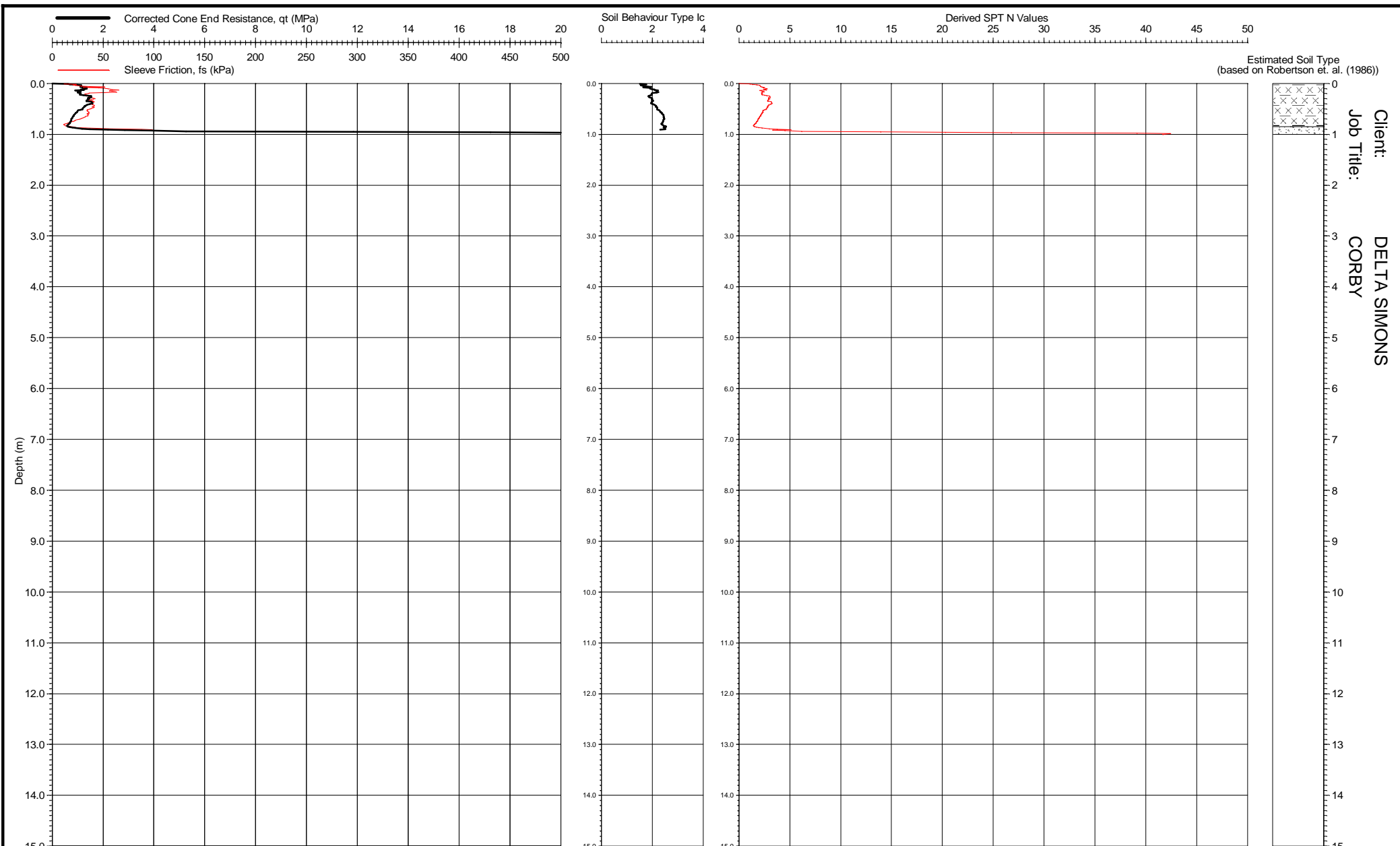


Location: Corby  
 Coordinates: 490856.190E - 290812.940N  
 Ground Level: 106.48 m aD  
 Cone & Rig Used: S15-CFIP.1093 - CPT 008  
 Remarks: Test refused on total pressure.

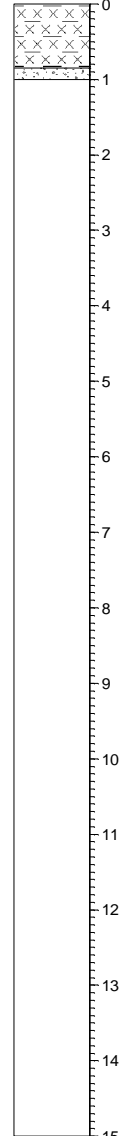
Date of Test: 02/09/2015  
 Date of Plot: 13/10/2015  
 File Name: 1150281 - CPT 106  
 Checked By: *[Signature]*

**IN SITU** PIEZO CONE PENETRATION TEST  
 SITE INVESTIGATION  
 insitusi.com  
 CPT 106

Client: DELTA SIMONS  
 Job Title: CORBY



Estimated Soil Type (based on Robertson et. al. (1986))



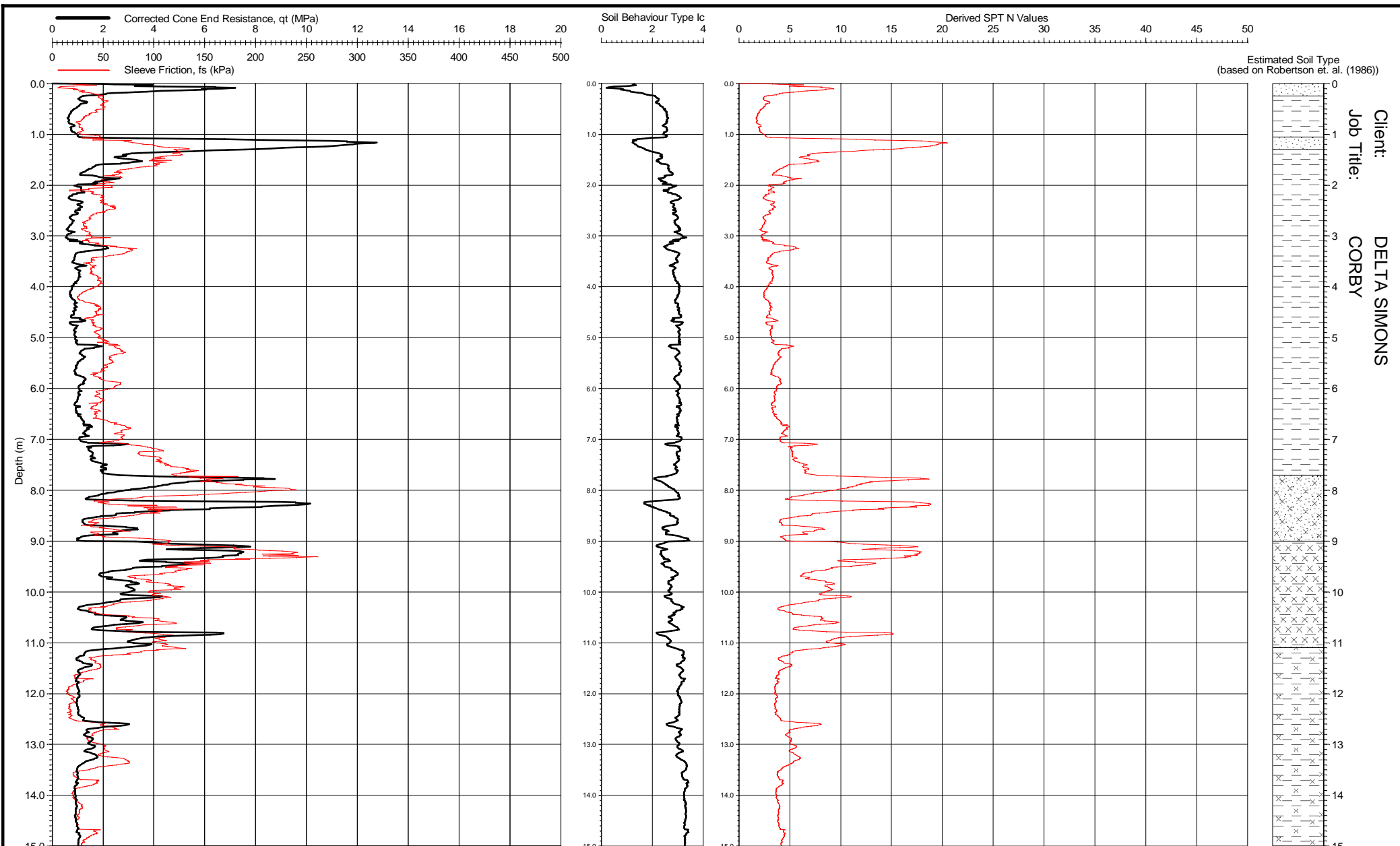
Client: DELTA SIMONS  
Job Title: CORBY

Location: Corby  
Coordinates: 490958.570E - 290901.230N  
Ground Level: 106.26 m aD  
Cone & Rig Used: S15-CFIP.1093 - CPT 008  
Remarks: Test refused on total pressure.

Date of Test: 03/09/2015  
Date of Plot: 13/10/2015  
File Name: 1150281 - CPT 107  
Checked By: *[Signature]*

**IN SITU** PIEZO CONE PENETRATION TEST  
SITE INVESTIGATION CPT 107  
insitusi.com



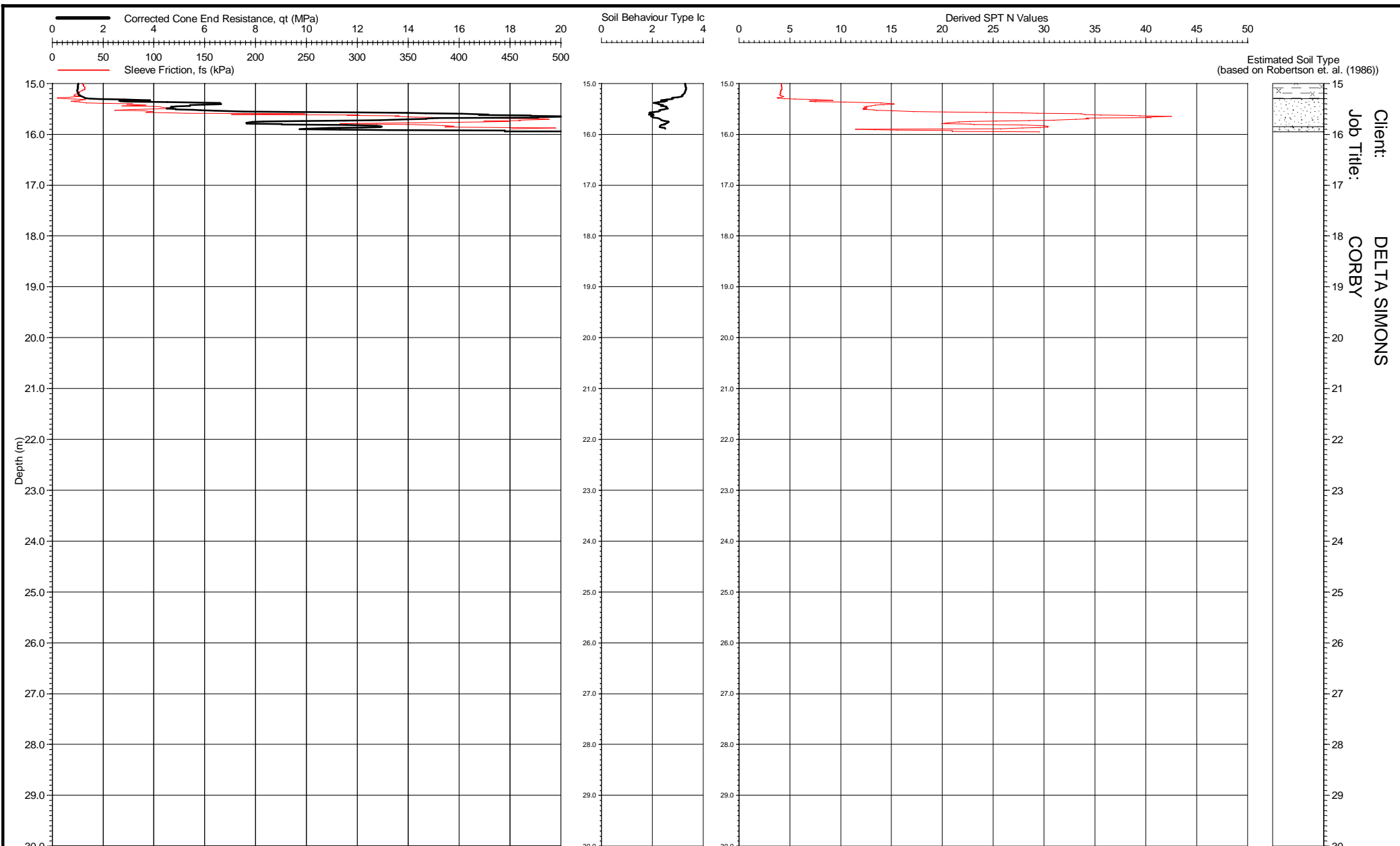


Location: Corby  
 Coordinates: 490959.570E - 290902.230N  
 Ground Level: 106.26 m aD  
 Cone & Rig Used: S15-CFIP.1093 - CPT 008  
 Remarks: Test refused on total pressure.

Date of Test: 03/09/2015  
 Date of Plot: 13/10/2015  
 File Name: 1150281 - CPT 107A  
 Checked By: *R. Hill*

**IN SITU** PIEZO CONE PENETRATION TEST  
 SITE INVESTIGATION CPT 107A  
 insitusi.com

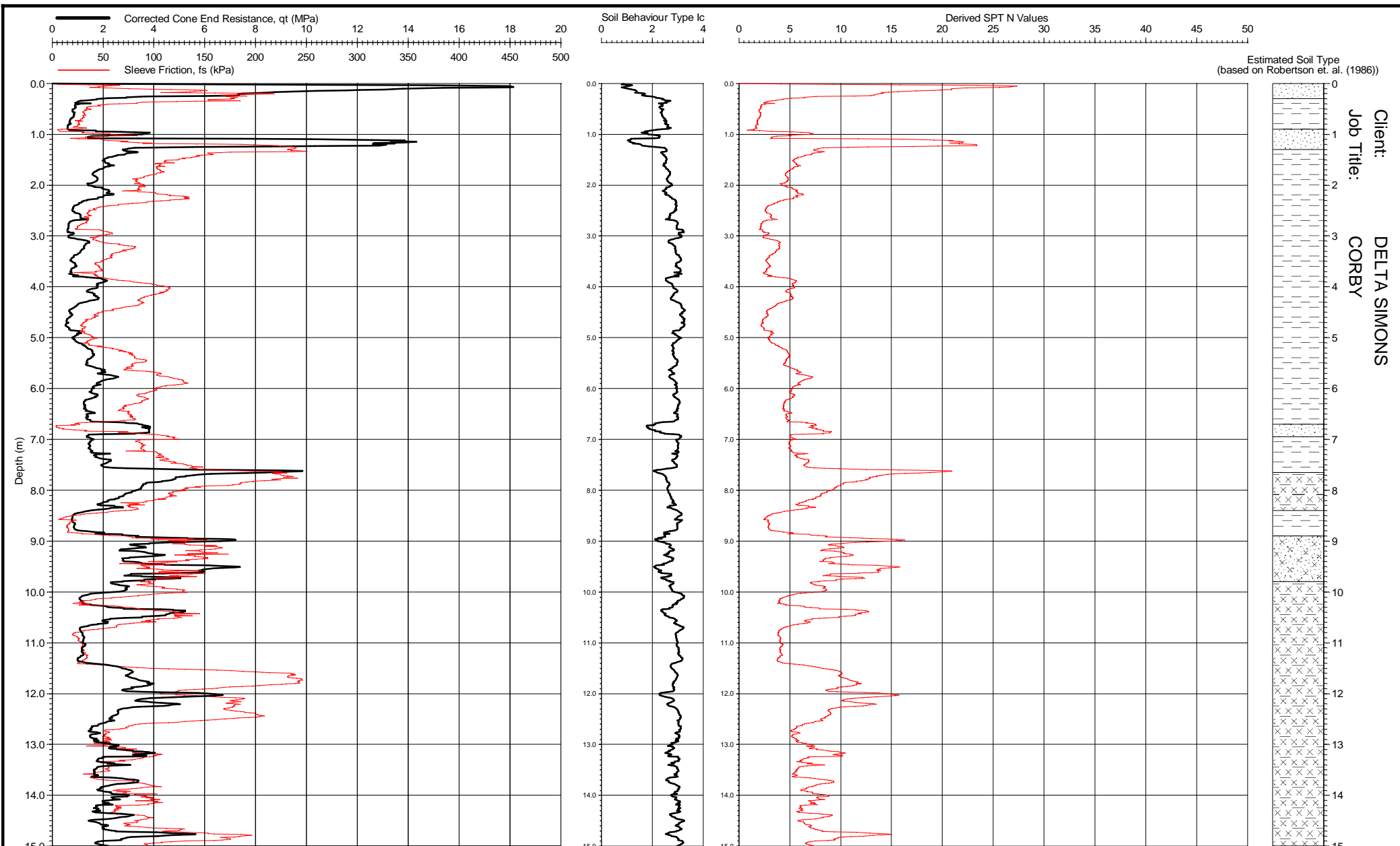
Form: CPT0003



Location: Corby  
 Coordinates: 490959.570E - 290902.230N  
 Ground Level: 106.26 m aD  
 Cone & Rig Used: S15-CFIP.1093 - CPT 008  
 Remarks: Test refused on total pressure.

Date of Test: 03/09/2015  
 Date of Plot: 13/10/2015  
 File Name: 1150281 - CPT 107A  
 Checked By: *R. [Signature]*

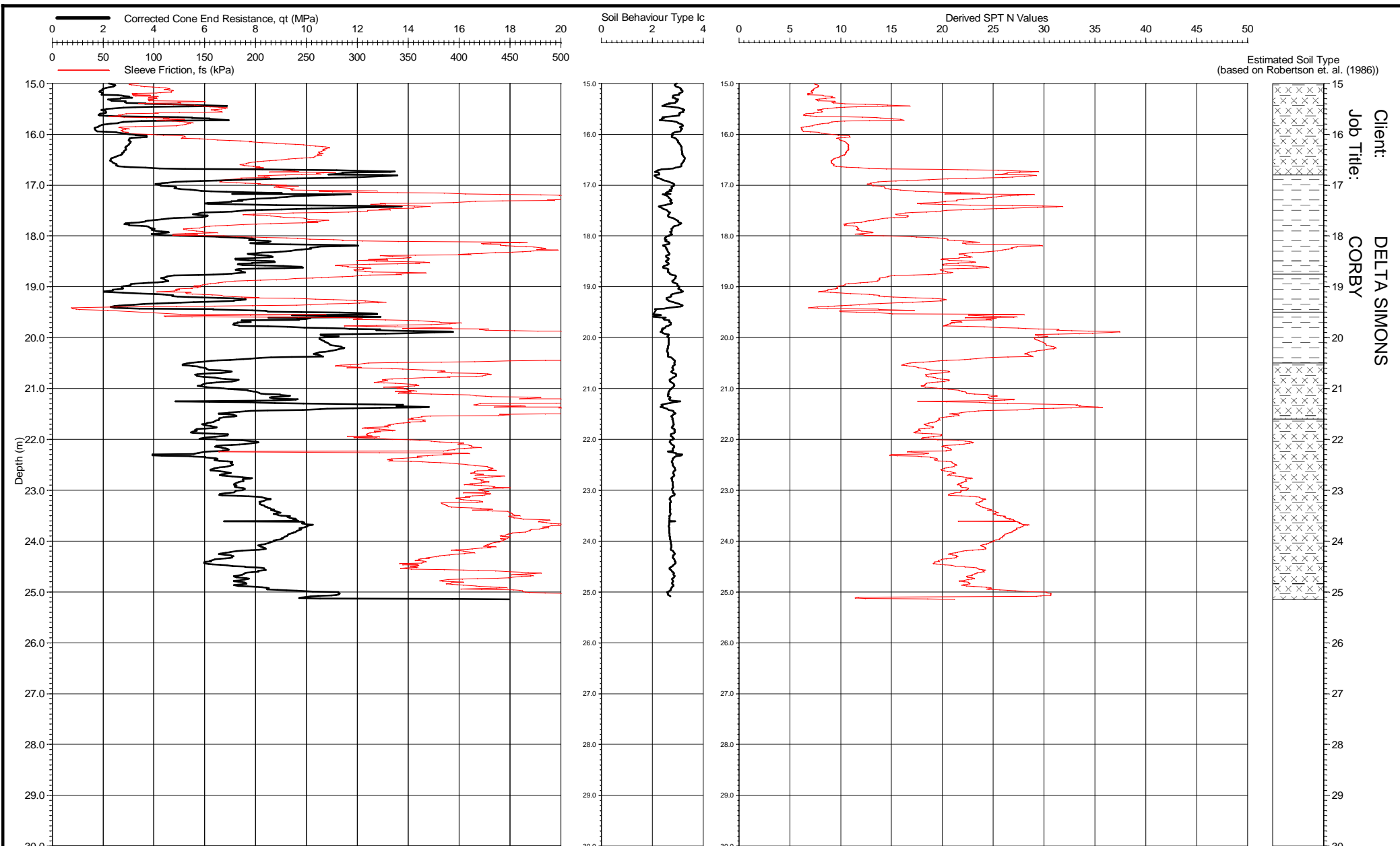
**IN SITU** PIEZO CONE PENETRATION TEST  
 SITE INVESTIGATION CPT 107A  
 insitusi.com



Location: Corby  
 Coordinates: 490947.750E - 290902.420N  
 Ground Level: 106.55 m aD  
 Cone & Rig Used: S15-CFIP.1093 - CPT 008  
 Remarks: Test refused on total pressure.

Date of Test: 03/09/2015  
 Date of Plot: 13/10/2015  
 File Name: 1150281 - CPT 108  
 Checked By: *Rhodes*

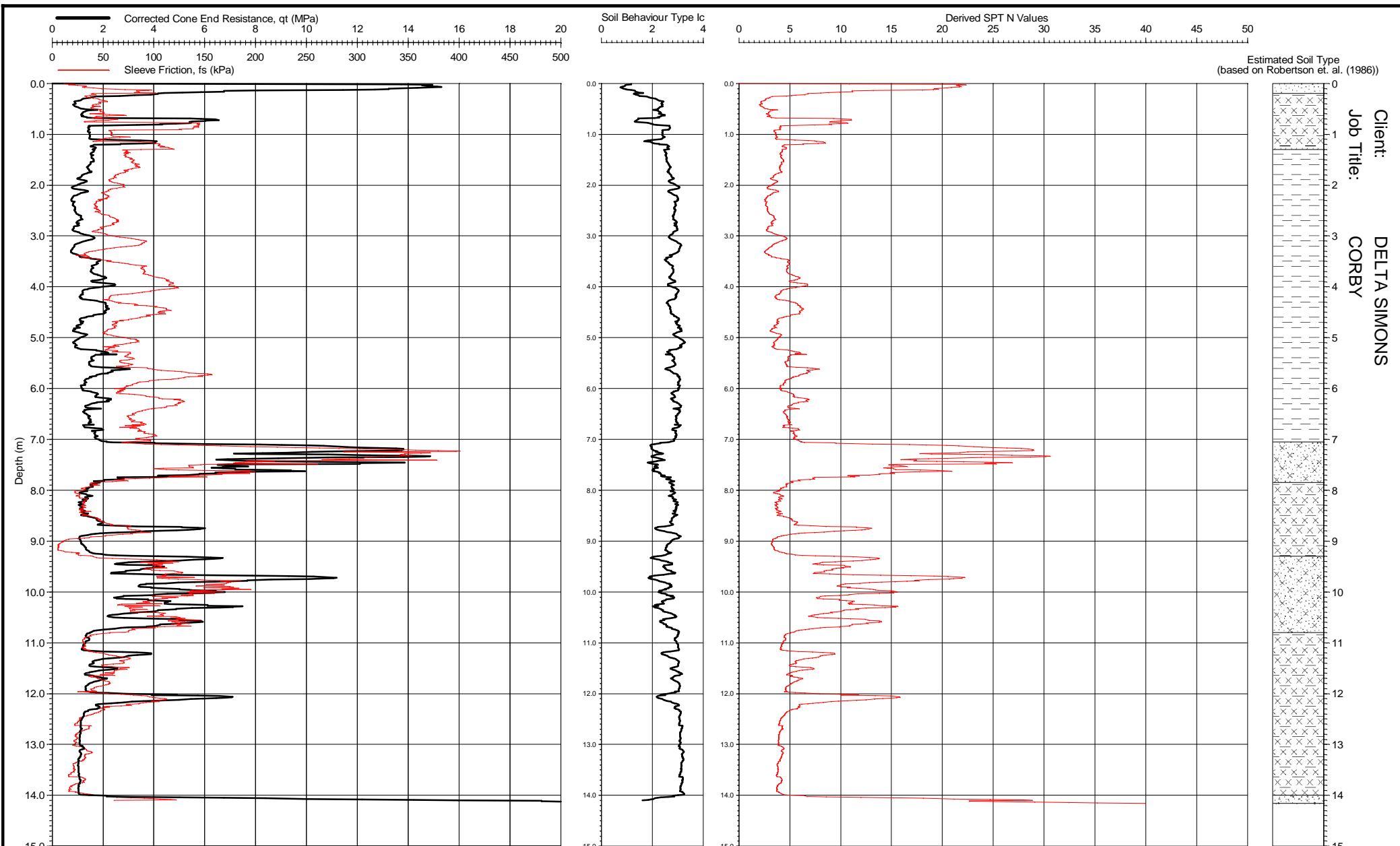
**IN SITU** PIEZO CONE PENETRATION TEST  
 SITE INVESTIGATION CPT 108  
 insitusi.com



Location: Corby  
 Coordinates: 490947.750E - 290902.420N  
 Ground Level: 106.55 m aD  
 Cone & Rig Used: S15-CFIP.1093 - CPT 008  
 Remarks: Test refused on total pressure.

Date of Test: 03/09/2015  
 Date of Plot: 13/10/2015  
 File Name: 1150281 - CPT 108  
 Checked By: *R. [Signature]*

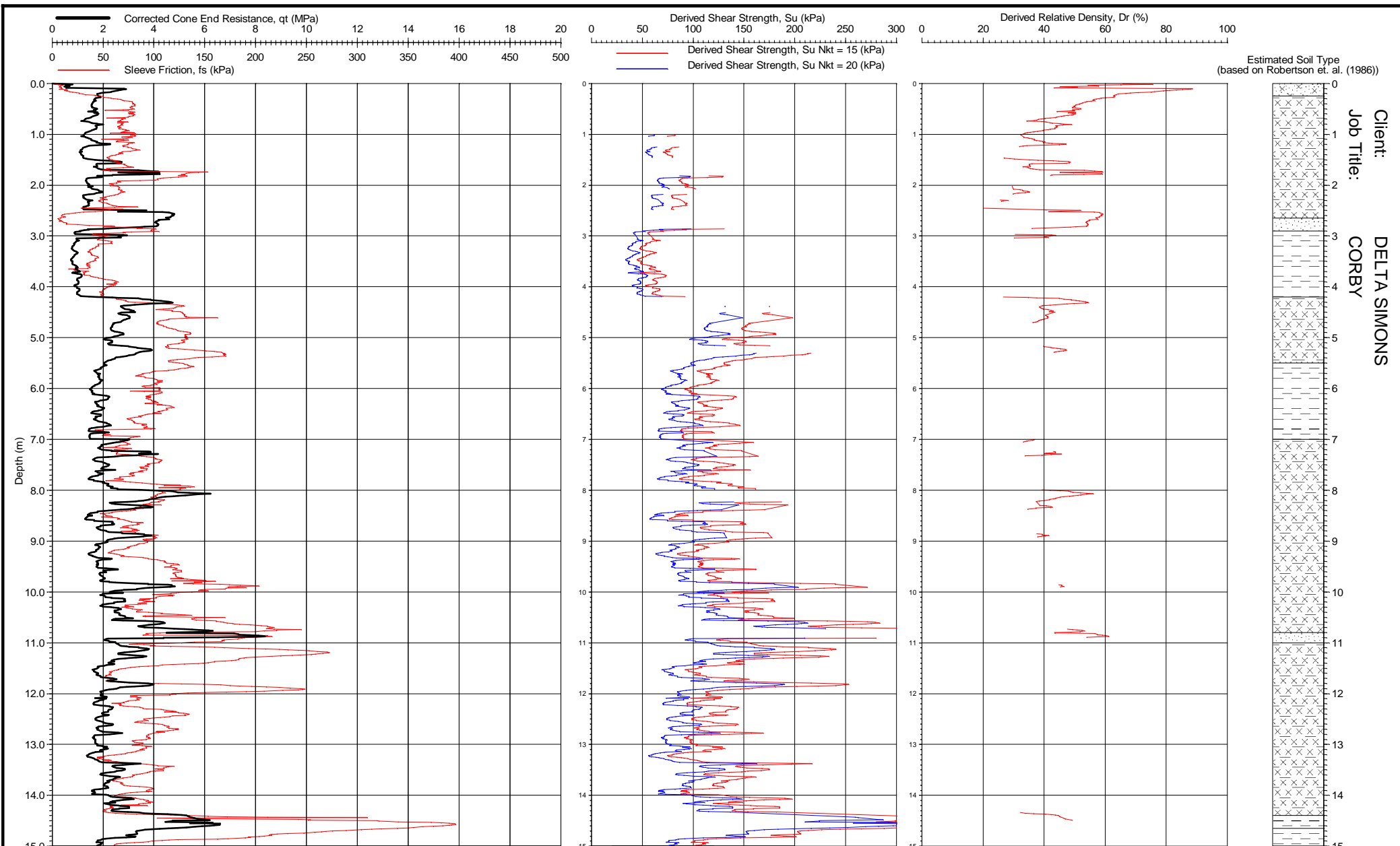
**IN SITU** PIEZO CONE PENETRATION TEST  
 SITE INVESTIGATION  
 insitushi.com  
 CPT 108



Location: Corby  
 Coordinates: 490907.410E - 290883.580N  
 Ground Level: 106.75 m aD  
 Cone & Rig Used: S15-CFIP.1093 - CPT 008  
 Remarks: Test refused on total pressure.

Date of Test: 03/09/2015  
 Date of Plot: 13/10/2015  
 File Name: 1150281 - CPT 109  
 Checked By: *R. Hill*

**IN SITU** PIEZO CONE PENETRATION TEST  
 SITE INVESTIGATION  
 insitusi.com  
 CPT 109

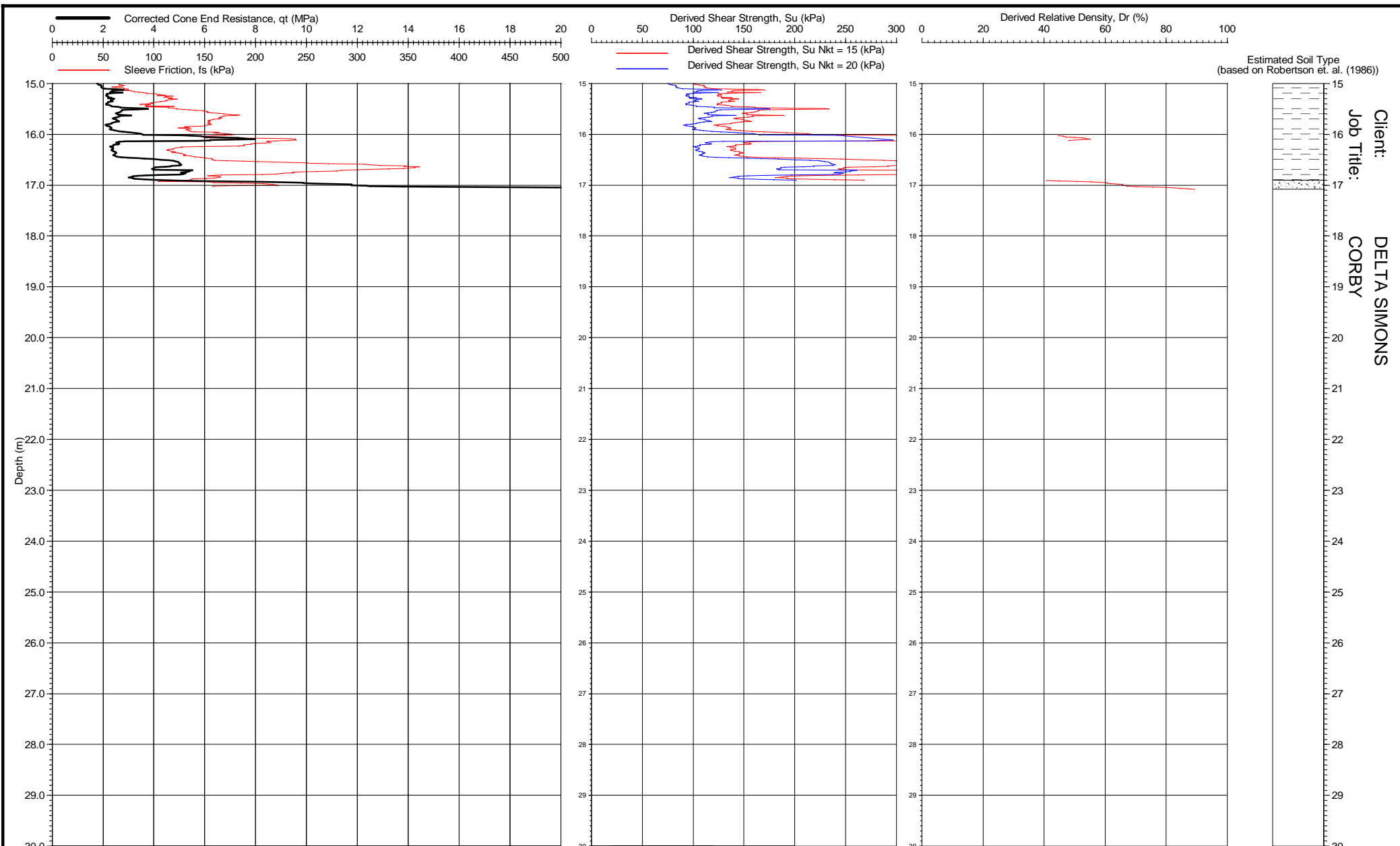


Client: DELTA SIMONS  
 Job Title: CORBY

Location: Corby  
 Coordinates: 491070.280E - 290870.590N  
 Ground Level: 104.04 m aD  
 Cone & Rig Used: S15-CFIP.1093 - CPT 008  
 Remarks: Test refused on total pressure.

Date of Test: 02/09/2015  
 Date of Plot: 13/10/2015  
 File Name: 1150281 - CPT 101  
 Checked By: *[Signature]*

**IN SITU** PIEZO CONE PENETRATION TEST  
 SITE INVESTIGATION CPT 101  
 insitusi.com

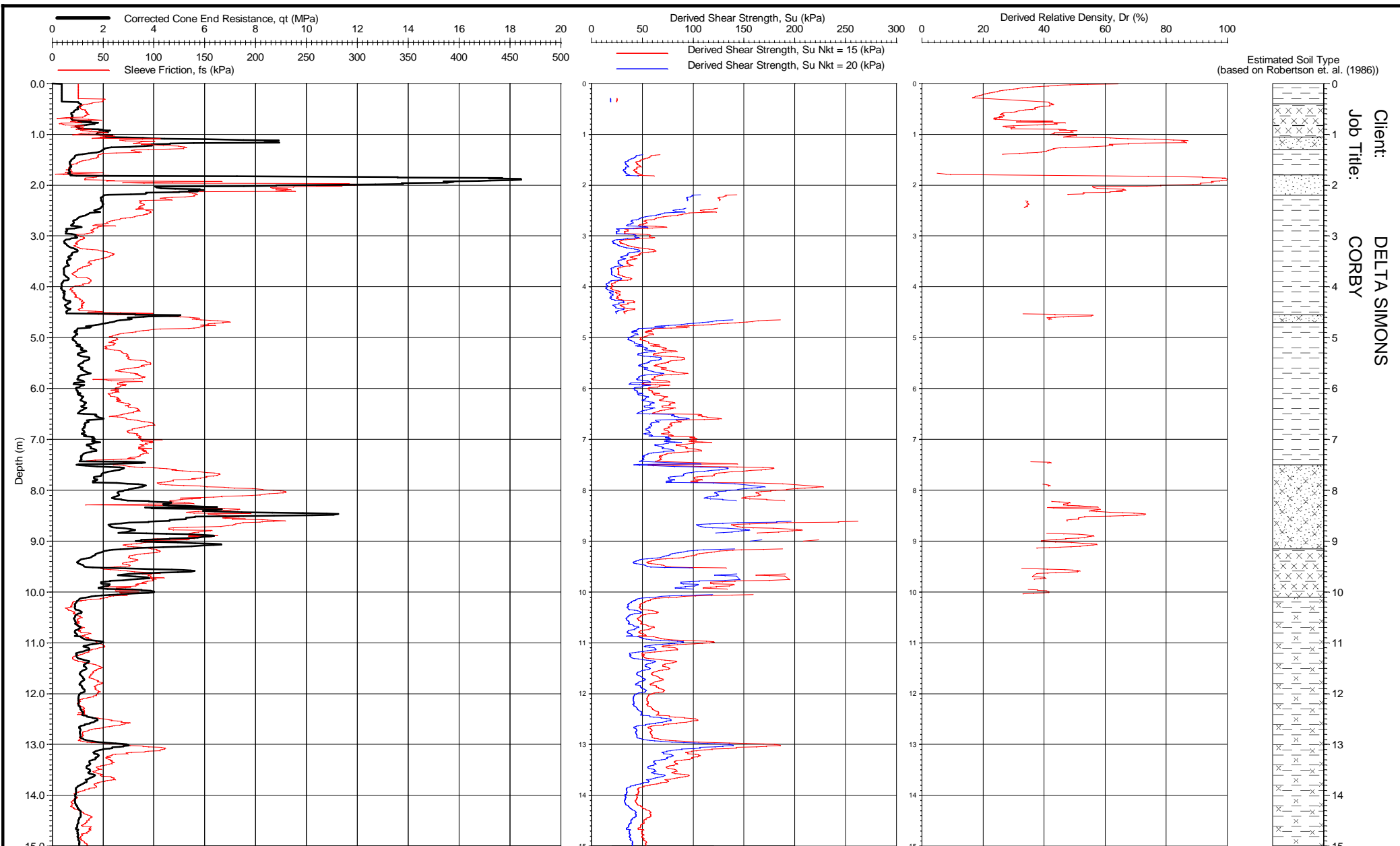


Client: DELTA SIMONS  
 Job Title: CORBY

Location: Corby  
 Coordinates: 491070.280E - 290870.590N  
 Ground Level: 104.04 m aD  
 Cone & Rig Used: S15-CFIP.1093 - CPT 008  
 Remarks: Test refused on total pressure.

Date of Test: 02/09/2015  
 Date of Plot: 13/10/2015  
 File Name: 1150281 - CPT 101  
 Checked By: *[Signature]*

**IN SITU** PIEZO CONE PENETRATION TEST  
 SITE INVESTIGATION CPT 101  
 insitusi.com



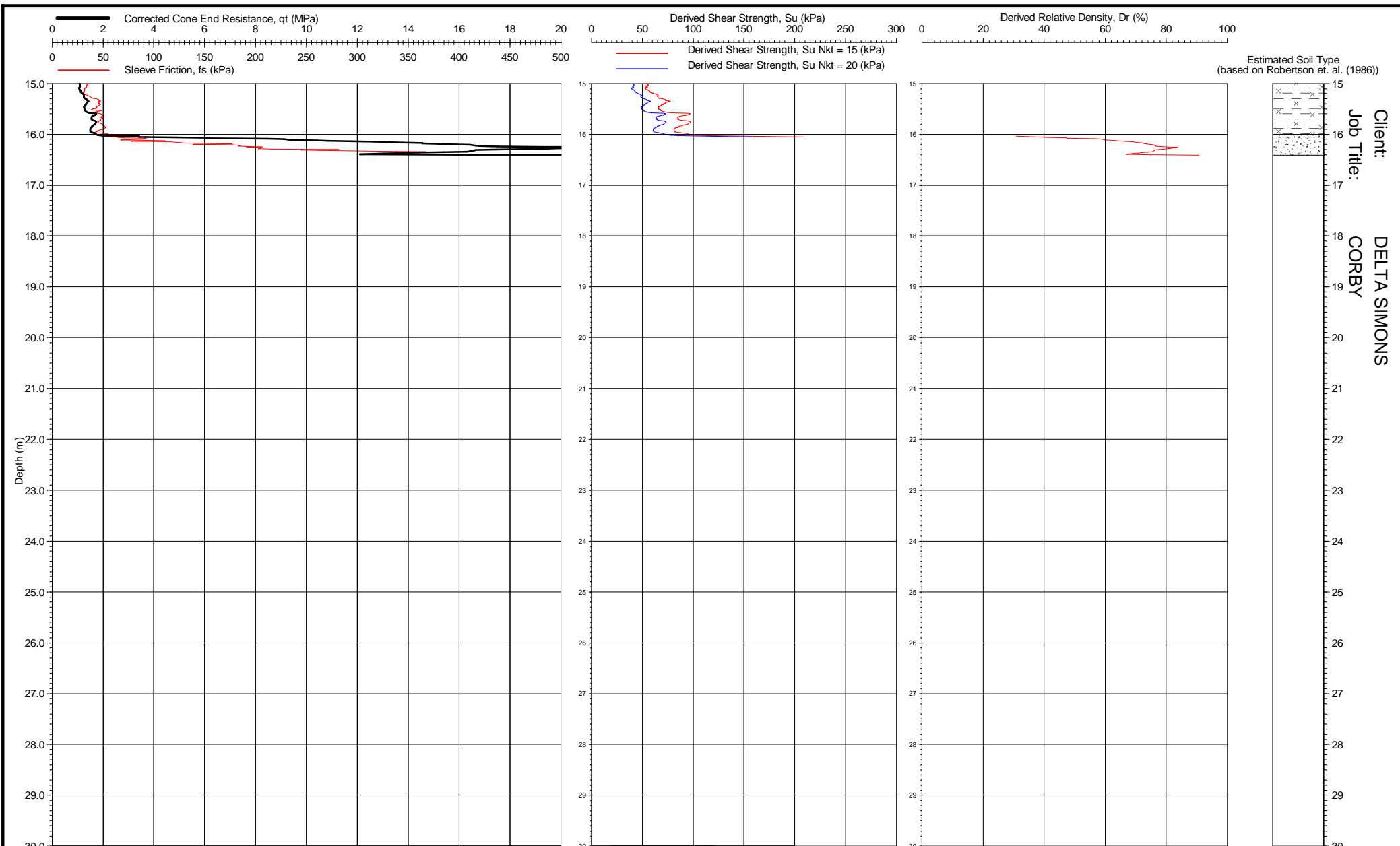
Client: DELTA SIMONS  
 Job Title: CORBY

Location: Corby  
 Coordinates: 491021.740E - 290918.910N  
 Ground Level: 105.55 m aD  
 Cone & Rig Used: S15-CFIP.1093 - CPT 008  
 Remarks: Test refused on total pressure.

Date of Test: 02/09/2015  
 Date of Plot: 13/10/2015  
 File Name: 1150281 - CPT 102  
 Checked By: *[Signature]*

**IN SITU** PIEZO CONE PENETRATION TEST  
 SITE INVESTIGATION CPT 102  
 insitusi.com



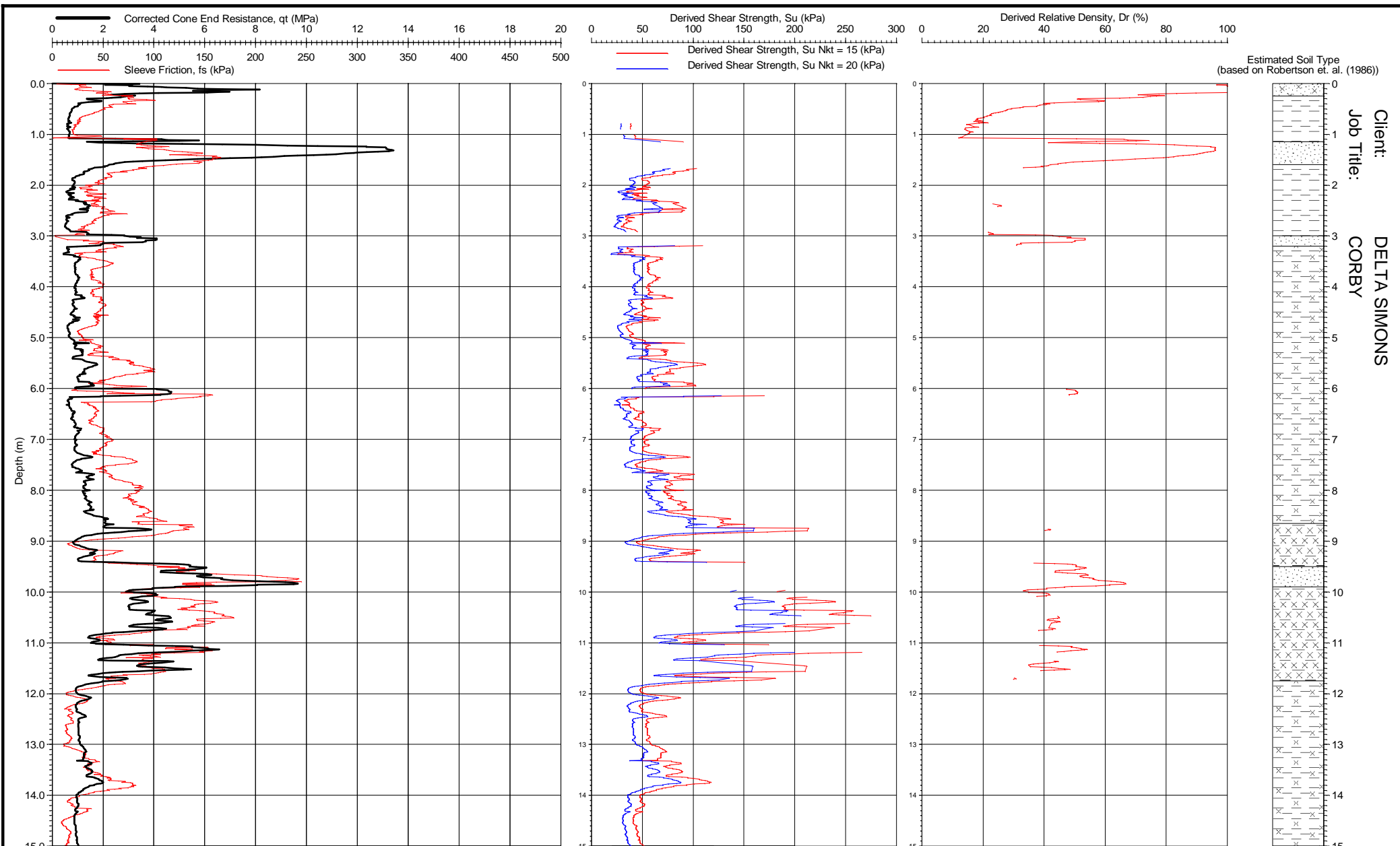


Client: DELTA SIMONS  
 Job Title: CORBY

Location: Corby  
 Coordinates: 491021.740E - 290918.910N  
 Ground Level: 105.55 m aD  
 Cone & Rig Used: S15-CFIP.1093 - CPT 008  
 Remarks: Test refused on total pressure.

Date of Test: 02/09/2015  
 Date of Plot: 13/10/2015  
 File Name: 1150281 - CPT 102  
 Checked By: *[Signature]*

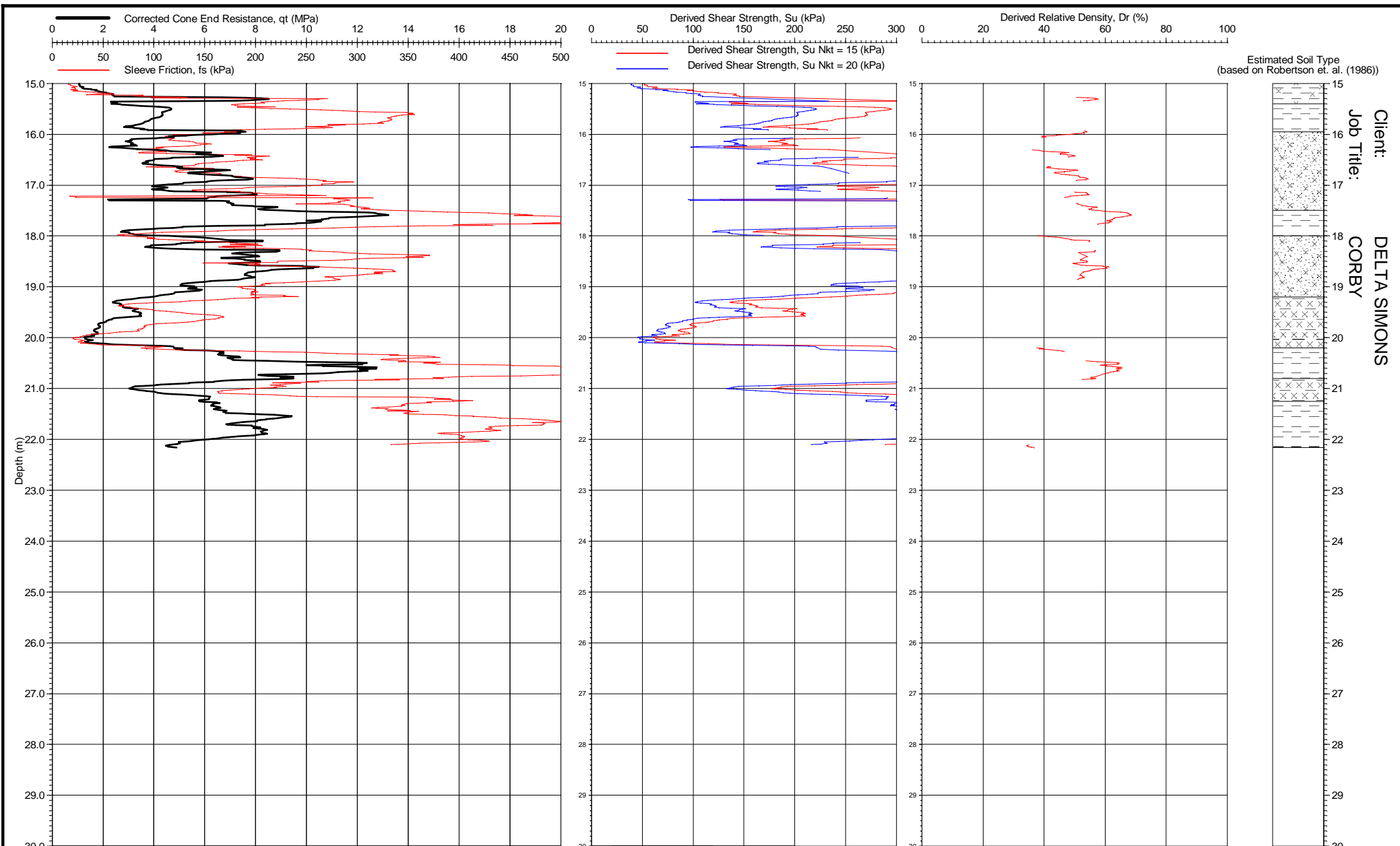
**IN SITU** PIEZO CONE PENETRATION TEST  
 SITE INVESTIGATION CPT 102  
 insitusi.com



Location: Corby  
 Coordinates: 490958.570E - 290901.230N  
 Ground Level: 106.26 m aD  
 Cone & Rig Used: S15-CFIP.1093 - CPT 008  
 Remarks: Test refused on total pressure.

Date of Test: 02/09/2015  
 Date of Plot: 13/10/2015  
 File Name: 1150281 - CPT 103  
 Checked By: *[Signature]*

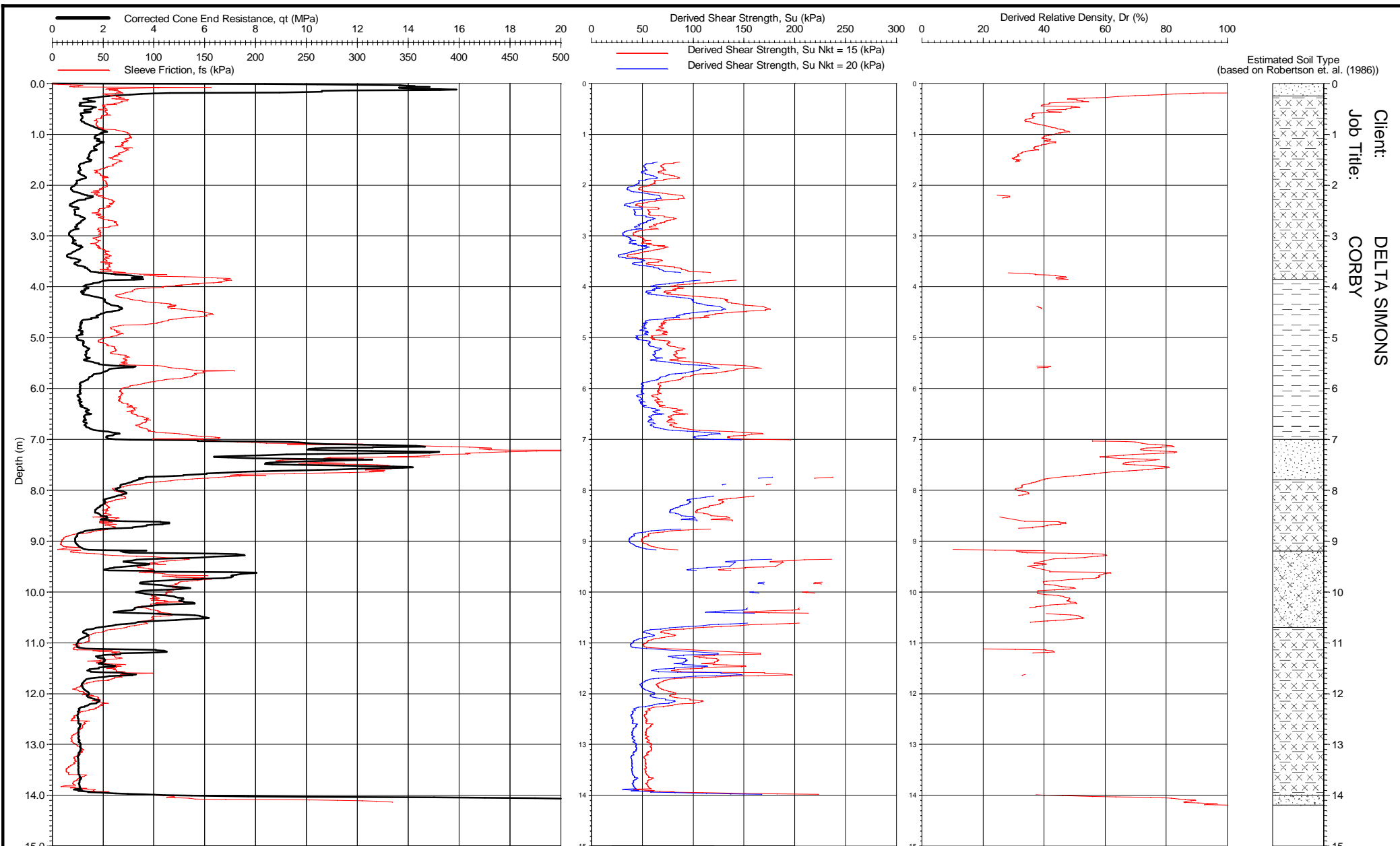
**IN SITU** PIEZO CONE PENETRATION TEST  
 SITE INVESTIGATION CPT 103  
 insitusi.com



Location: Corby  
 Coordinates: 490958.570E - 290901.230N  
 Ground Level: 106.26 m aD  
 Cone & Rig Used: S15-CFIP.1093 - CPT 008  
 Remarks: Test refused on total pressure.

Date of Test: 02/09/2015  
 Date of Plot: 13/10/2015  
 File Name: 1150281 - CPT 103  
 Checked By: *[Signature]*

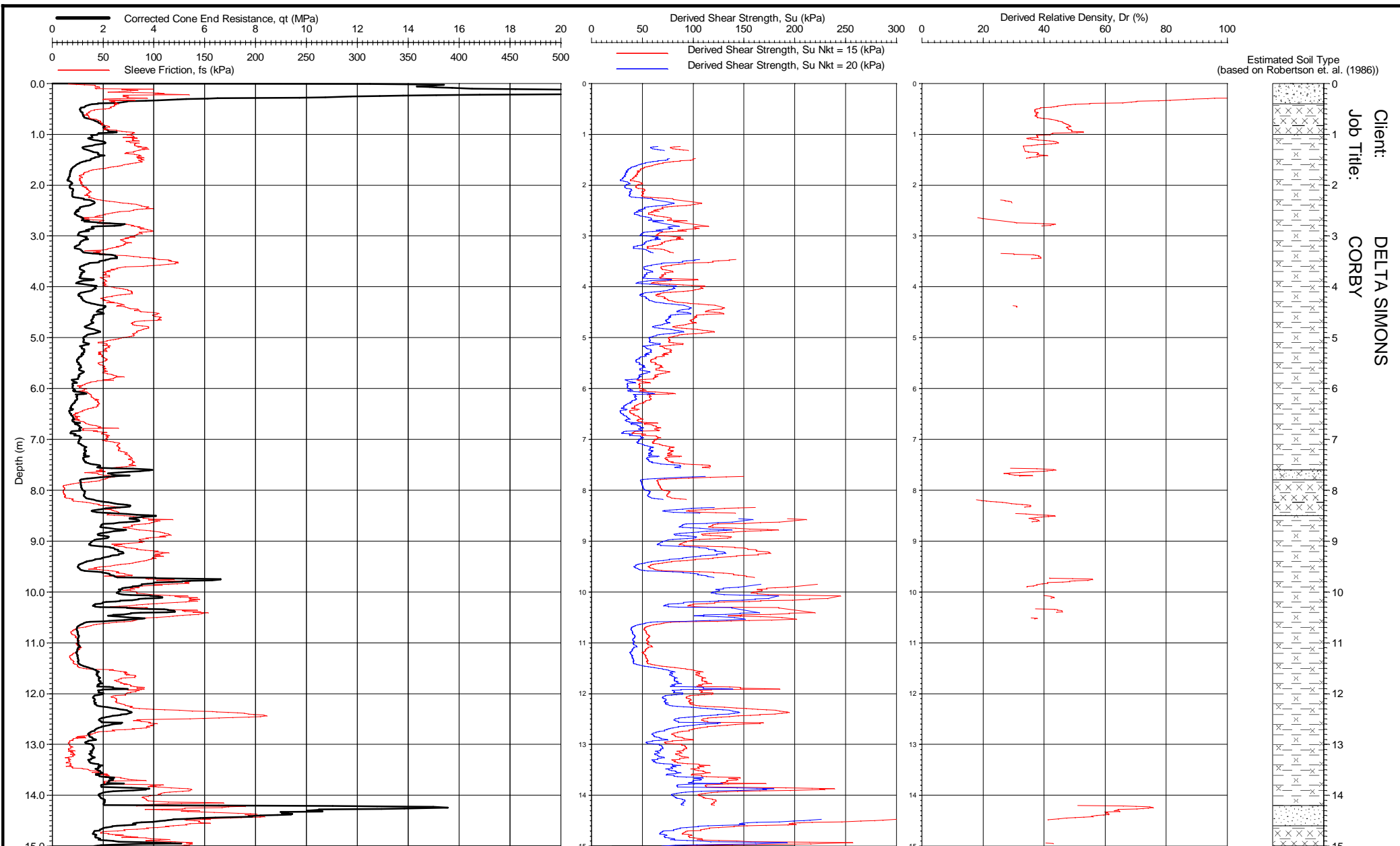
**IN SITU** PIEZO CONE PENETRATION TEST  
 SITE INVESTIGATION CPT 103  
 insitusi.com



Location: Corby  
 Coordinates: 490907.410E - 290883.580N  
 Ground Level: 106.75 m aD  
 Cone & Rig Used: S15-CFIP.1093 - CPT 008  
 Remarks: Test refused on total pressure.

Date of Test: 02/09/2015  
 Date of Plot: 13/10/2015  
 File Name: 1150281 - CPT 104  
 Checked By: *[Signature]*

**IN SITU** PIEZO CONE PENETRATION TEST  
 SITE INVESTIGATION CPT 104  
 insitusi.com

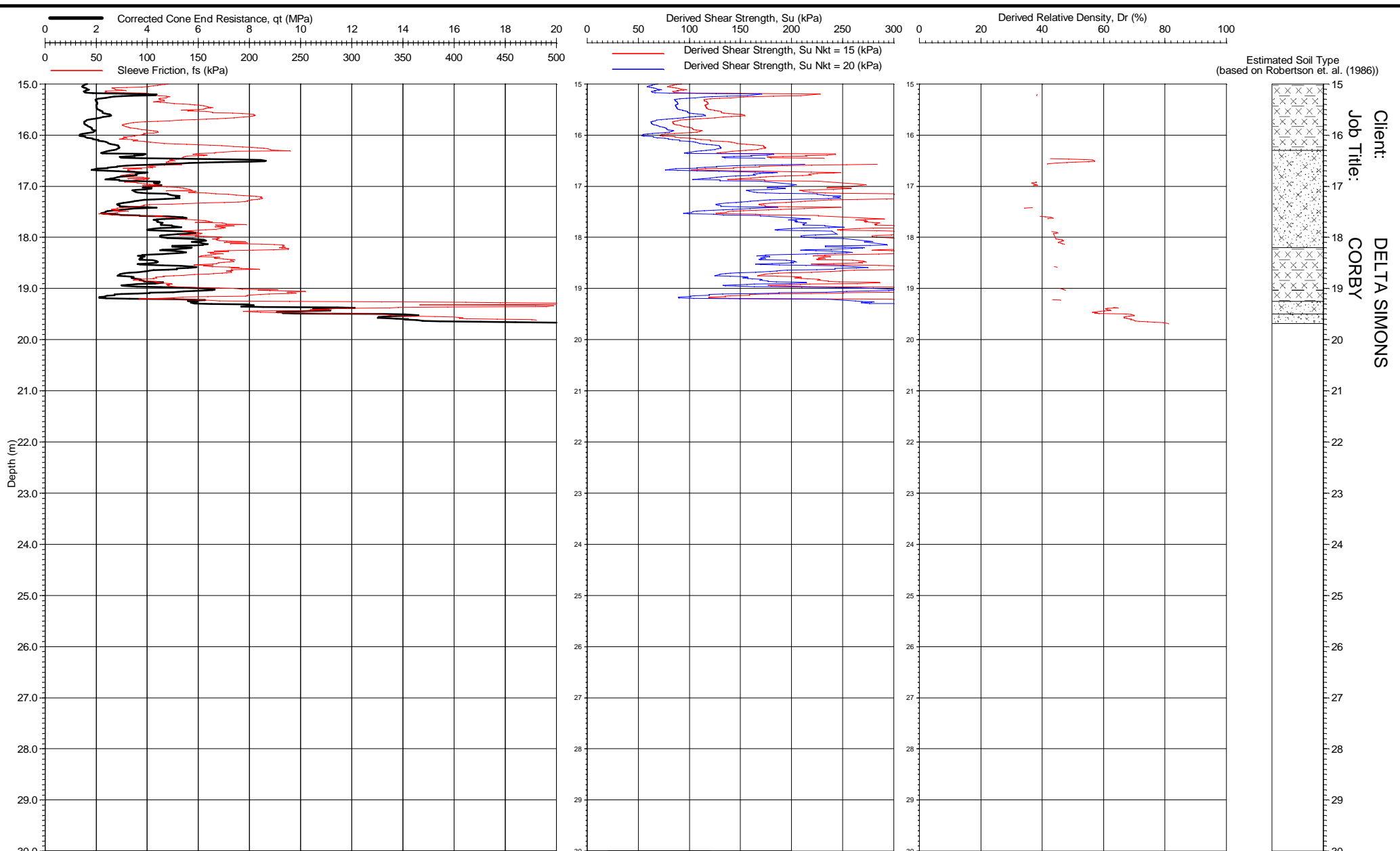


Client: DELTA SIMONS  
 Job Title: CORBY

Location: Corby  
 Coordinates: 490910.010E - 290839.530N  
 Ground Level: 105.95 m aD  
 Cone & Rig Used: S15-CFIP.1093 - CPT 008  
 Remarks: Test refused on total pressure.

Date of Test: 02/09/2015  
 Date of Plot: 13/10/2015  
 File Name: 1150281 - CPT 105  
 Checked By: *[Signature]*

**IN SITU** PIEZO CONE PENETRATION TEST  
 SITE INVESTIGATION CPT 105  
 insitusi.com

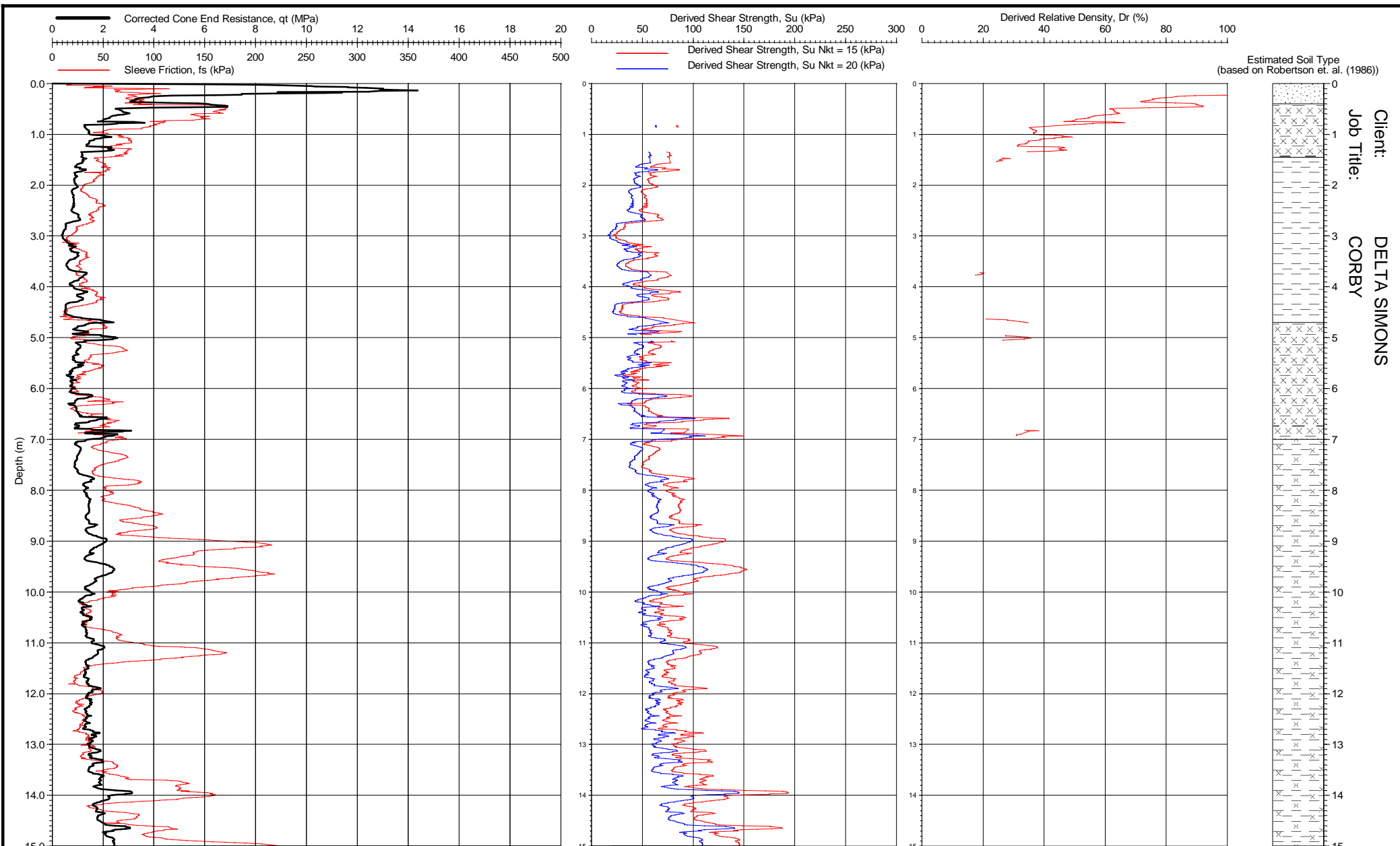


Client: DELTA SIMONS  
 Job Title: CORBY

Location: Corby  
 Coordinates: 490910.010E - 290839.530N  
 Ground Level: 105.95 m aD  
 Cone & Rig Used: S15-CFIP.1093 - CPT 008  
 Remarks: Test refused on total pressure.

Date of Test: 02/09/2015  
 Date of Plot: 13/10/2015  
 File Name: 1150281 - CPT 105  
 Checked By: *[Signature]*

**IN SITU** PIEZO CONE PENETRATION TEST  
 SITE INVESTIGATION CPT 105  
 insitusi.com

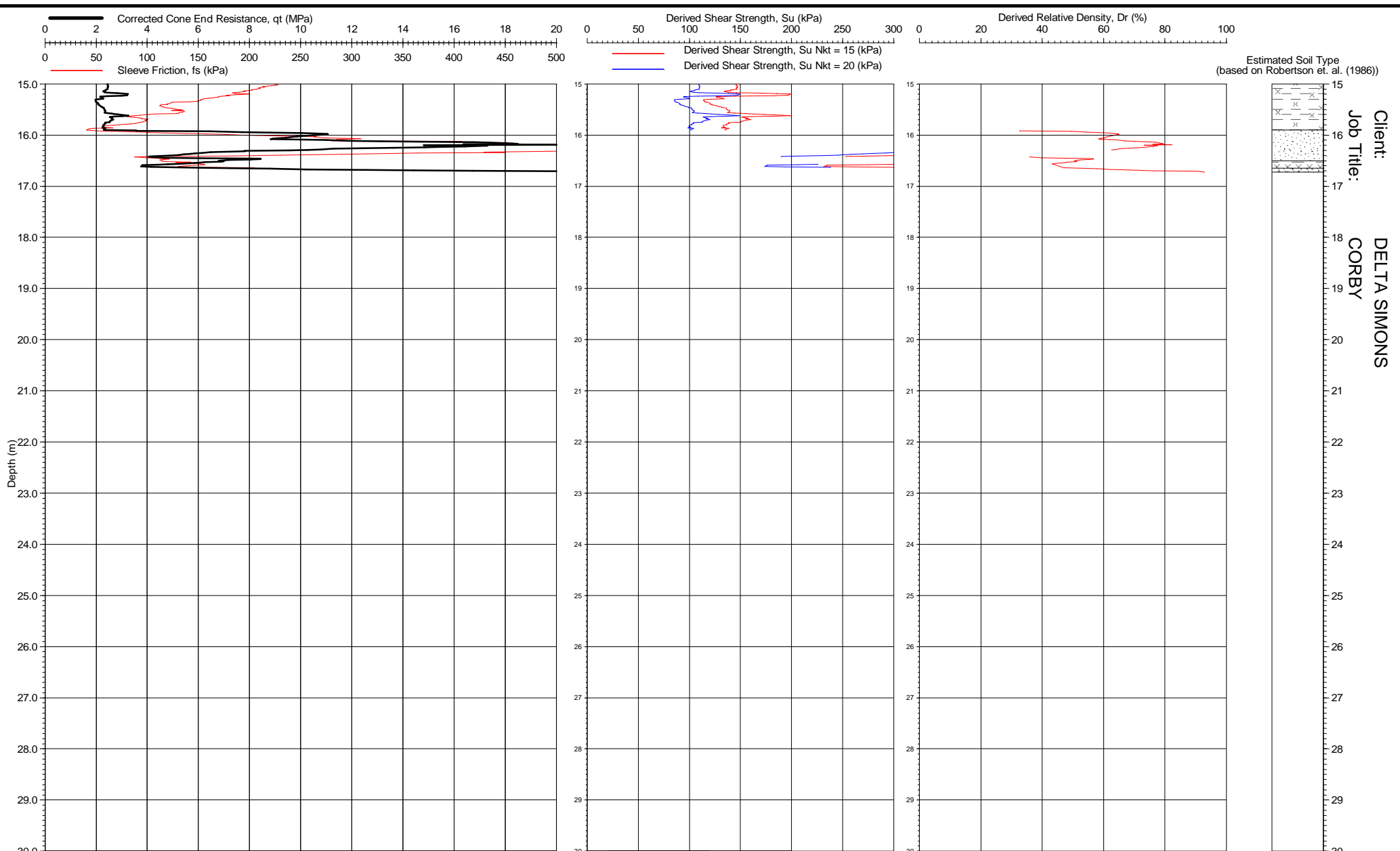


Client: DELTA SIMONS  
 Job Title: CORBY

Location: Corby  
 Coordinates: 490856.190E - 290812.940N  
 Ground Level: 106.48 m aD  
 Cone & Rig Used: S15-CFIP.1093 - CPT 008  
 Remarks: Test refused on total pressure.

Date of Test: 02/09/2015  
 Date of Plot: 13/10/2015  
 File Name: 1150281 - CPT 106  
 Checked By: *[Signature]*

**IN SITU** PIEZO CONE PENETRATION TEST  
 SITE INVESTIGATION CPT 106  
 insitusi.com

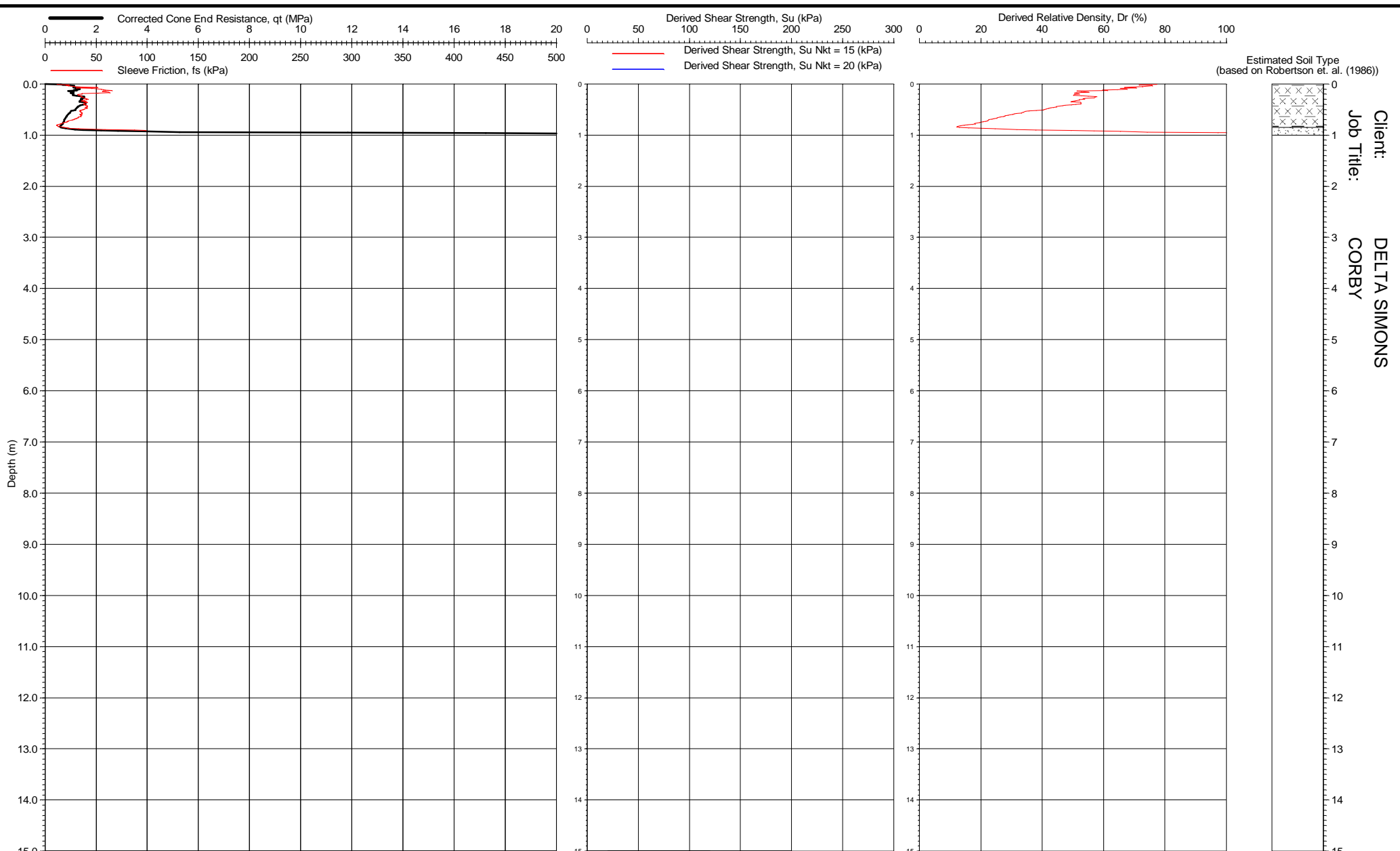


Location: Corby  
 Coordinates: 490856.190E - 290812.940N  
 Ground Level: 106.48 m aD  
 Cone & Rig Used: S15-CFIP.1093 - CPT 008  
 Remarks: Test refused on total pressure.

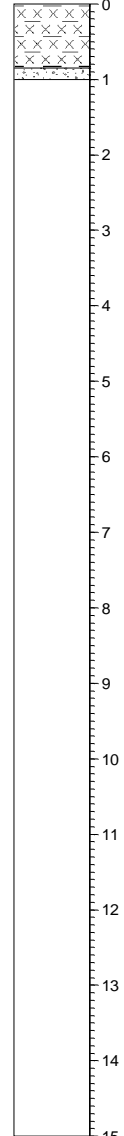
Date of Test: 02/09/2015  
 Date of Plot: 13/10/2015  
 File Name: 1150281 - CPT 106  
 Checked By: *[Signature]*

**IN SITU** PIEZO CONE PENETRATION TEST  
 SITE INVESTIGATION CPT 106  
 insitusi.com





Estimated Soil Type  
(based on Robertson et. al. (1986))

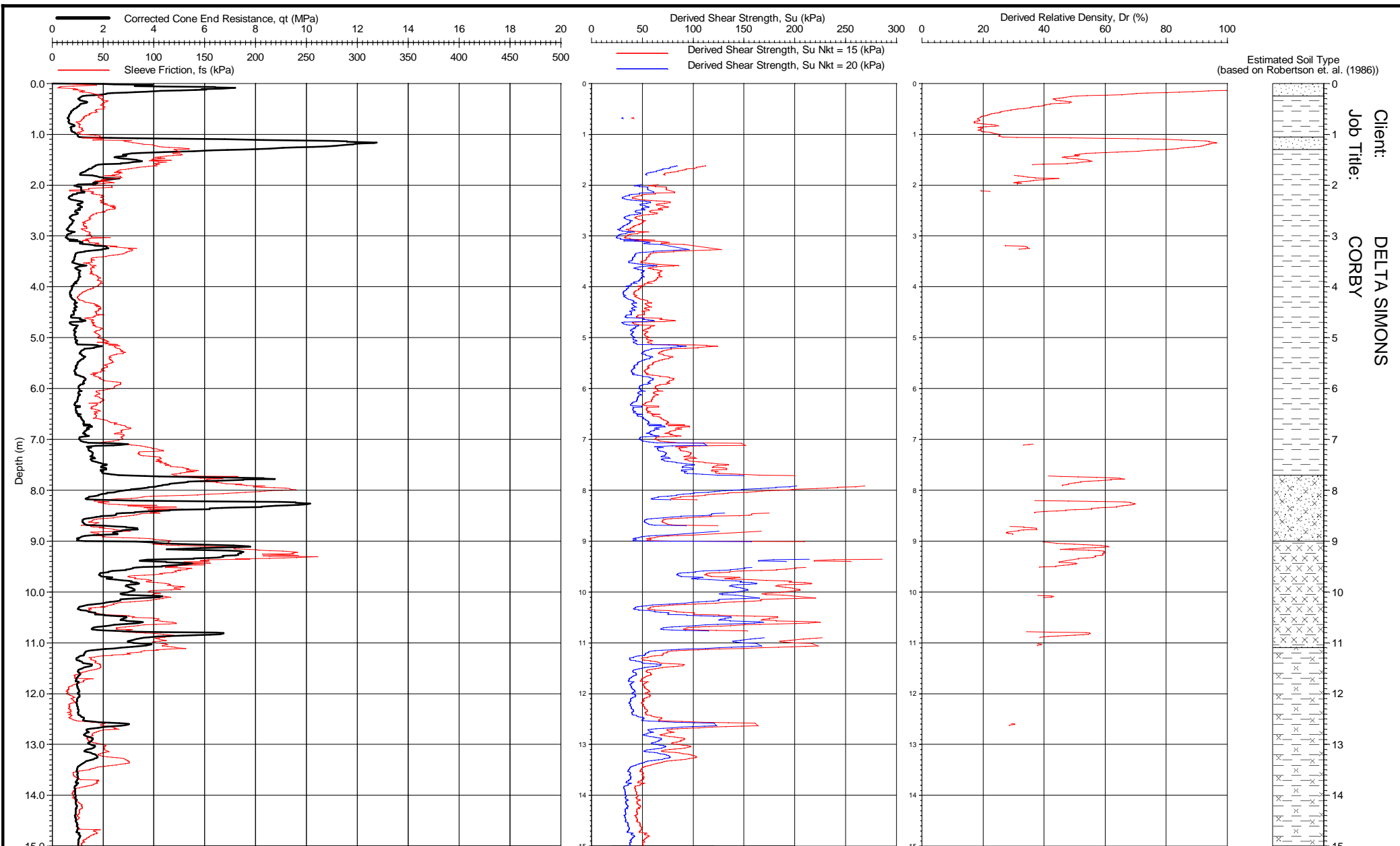


Client: DELTA SIMONS  
Job Title: CORBY

Location: Corby  
Coordinates: 490958.570E - 290901.230N  
Ground Level: 106.26 m aD  
Cone & Rig Used: S15-CFIP.1093 - CPT 008  
Remarks: Test refused on total pressure.

Date of Test: 03/09/2015  
Date of Plot: 13/10/2015  
File Name: 1150281 - CPT 107  
Checked By: *[Signature]*

**IN SITU** PIEZO CONE PENETRATION TEST  
SITE INVESTIGATION CPT 107  
insitusi.com

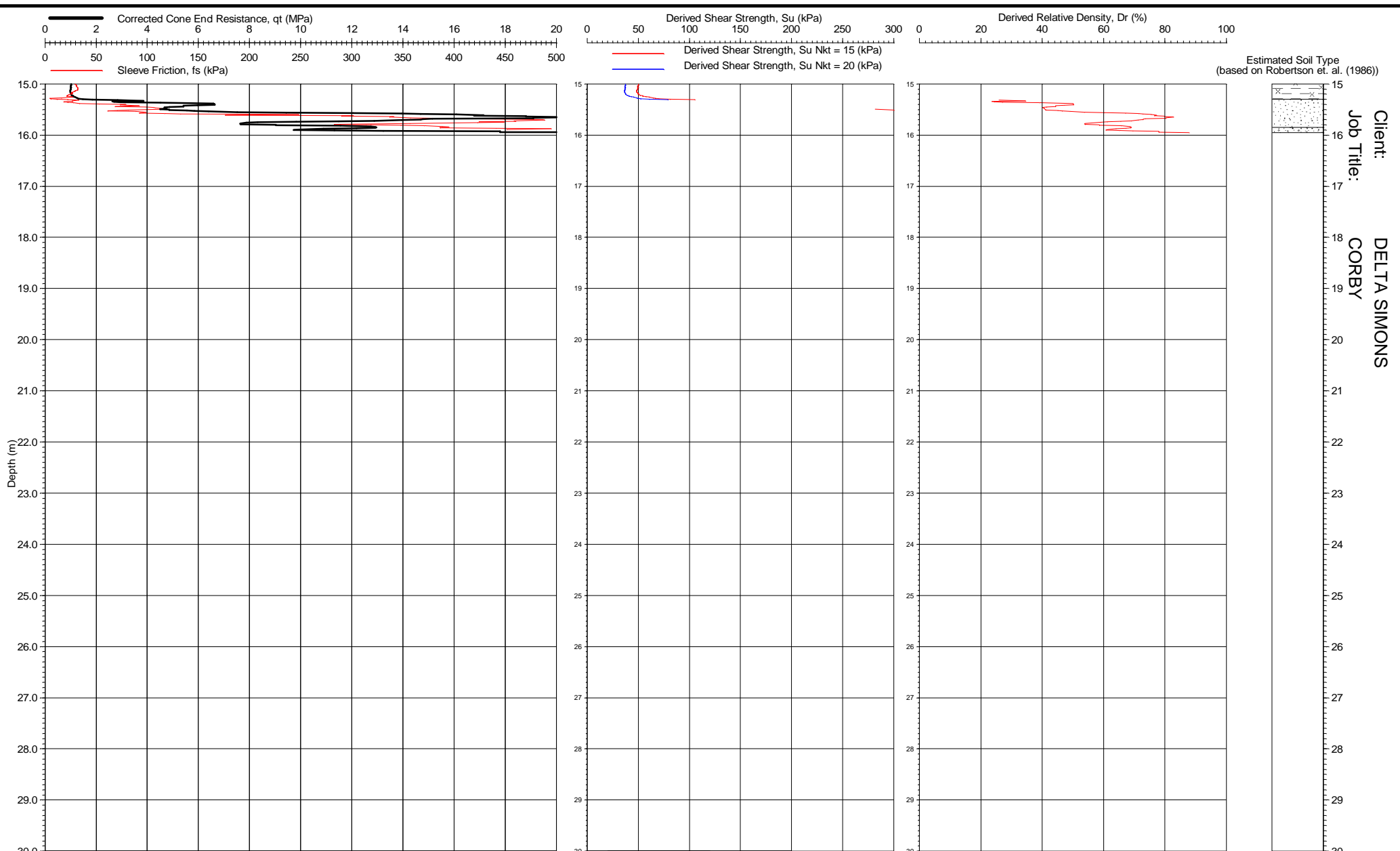


Client: DELTA SIMONS  
 Job Title: CORBY

Location: Corby  
 Coordinates: 490959.570E - 290902.230N  
 Ground Level: 106.26 m aD  
 Cone & Rig Used: S15-CFIP.1093 - CPT 008  
 Remarks: Test refused on total pressure.

Date of Test: 03/09/2015  
 Date of Plot: 13/10/2015  
 File Name: 1150281 - CPT 107A  
 Checked By: *[Signature]*

**IN SITU** PIEZO CONE PENETRATION TEST  
 SITE INVESTIGATION CPT 107A  
 insitusi.com

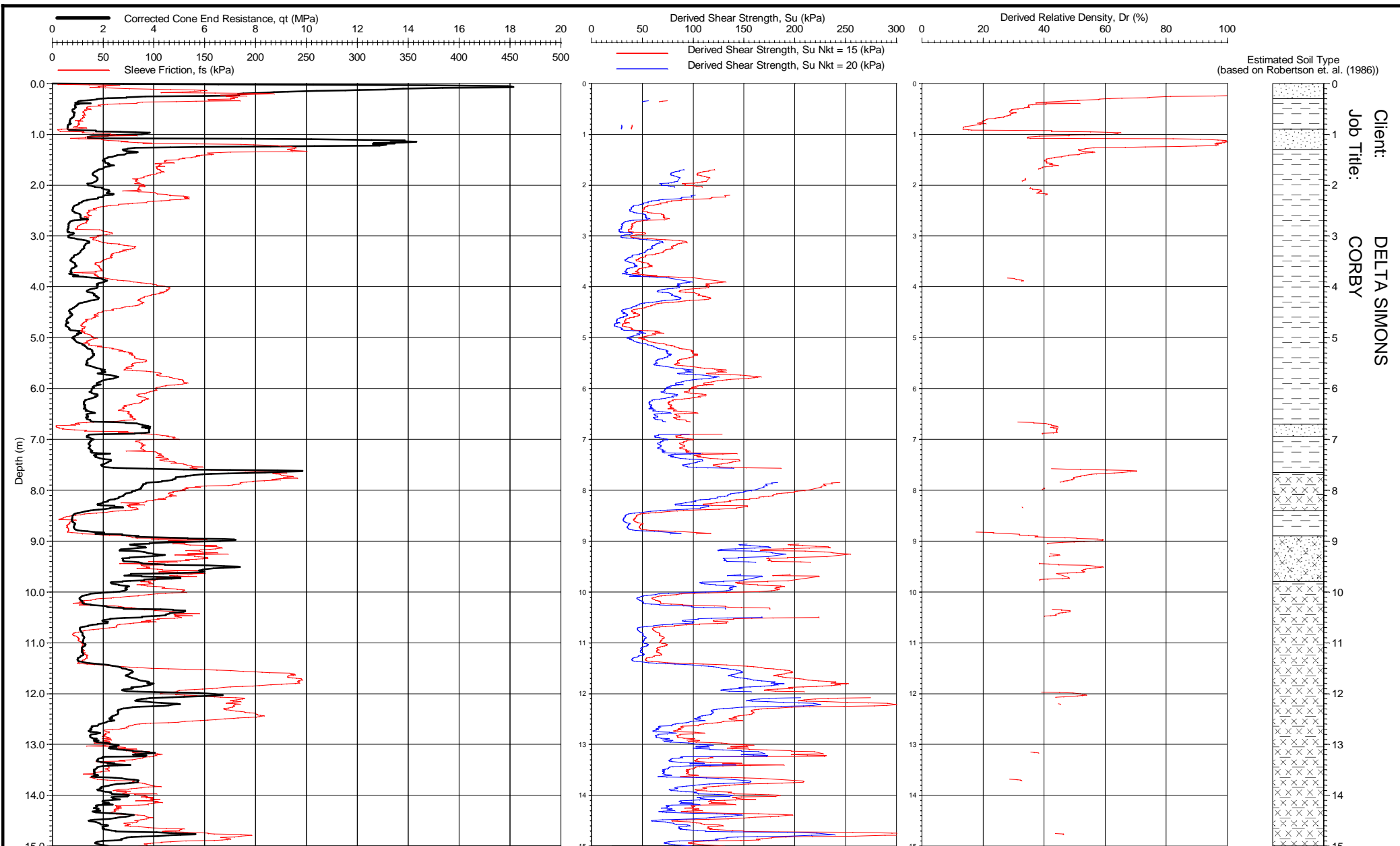


Client: DELTA SIMONS  
 Job Title: CORBY

Location: Corby  
 Coordinates: 490959.570E - 290902.230N  
 Ground Level: 106.26 m aD  
 Cone & Rig Used: S15-CFIP.1093 - CPT 008  
 Remarks: Test refused on total pressure.

Date of Test: 03/09/2015  
 Date of Plot: 13/10/2015  
 File Name: 1150281 - CPT 107A  
 Checked By: *[Signature]*

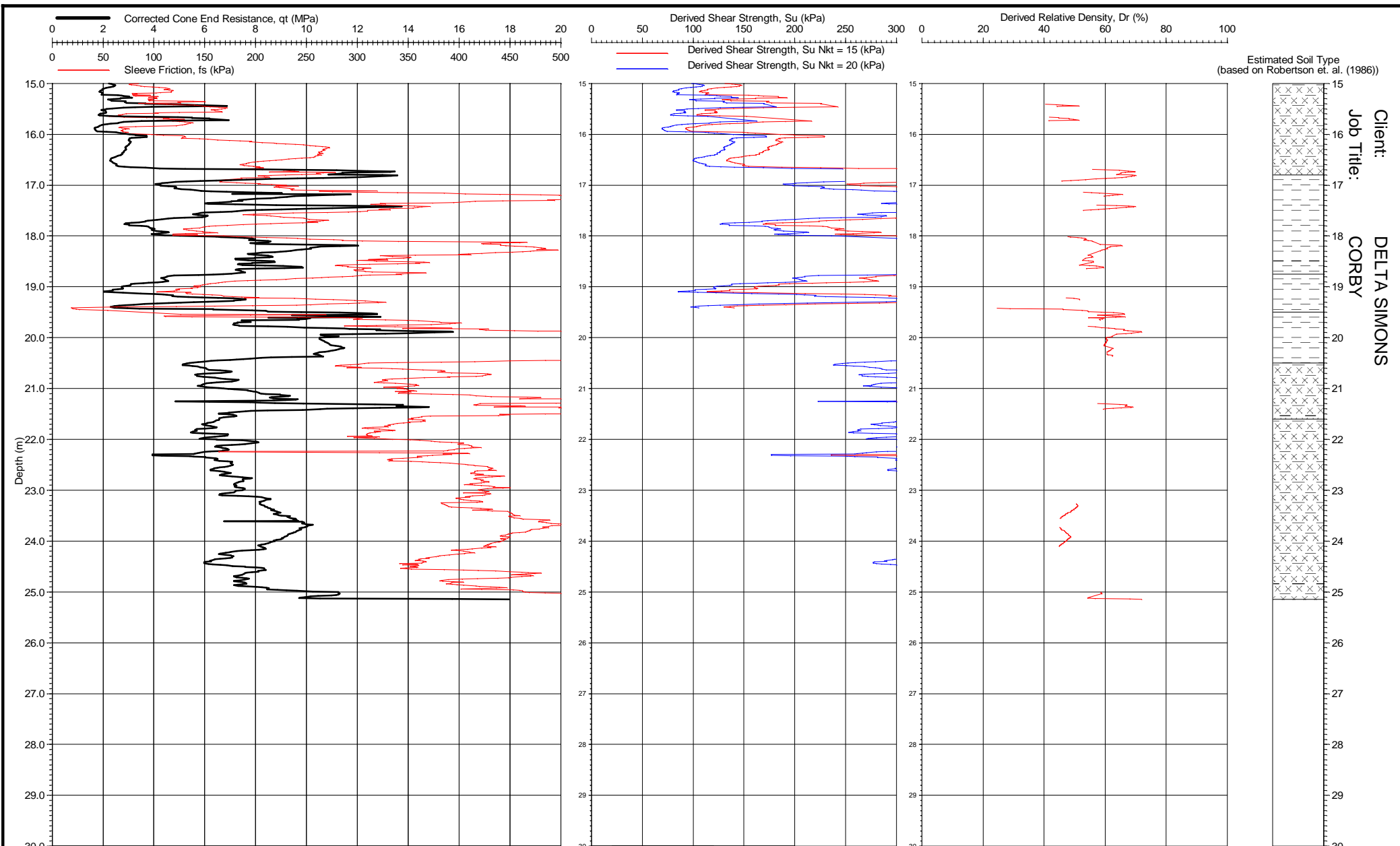
**IN SITU** PIEZO CONE PENETRATION TEST  
 SITE INVESTIGATION CPT 107A  
 insitushi.com



Location: Corby  
 Coordinates: 490947.750E - 290902.420N  
 Ground Level: 106.55 m aD  
 Cone & Rig Used: S15-CFIP.1093 - CPT 008  
 Remarks: Test refused on total pressure.

Date of Test: 03/09/2015  
 Date of Plot: 13/10/2015  
 File Name: 1150281 - CPT 108  
 Checked By: *[Signature]*

**IN SITU** PIEZO CONE PENETRATION TEST  
 SITE INVESTIGATION CPT 108  
[insitushi.com](http://insitushi.com)

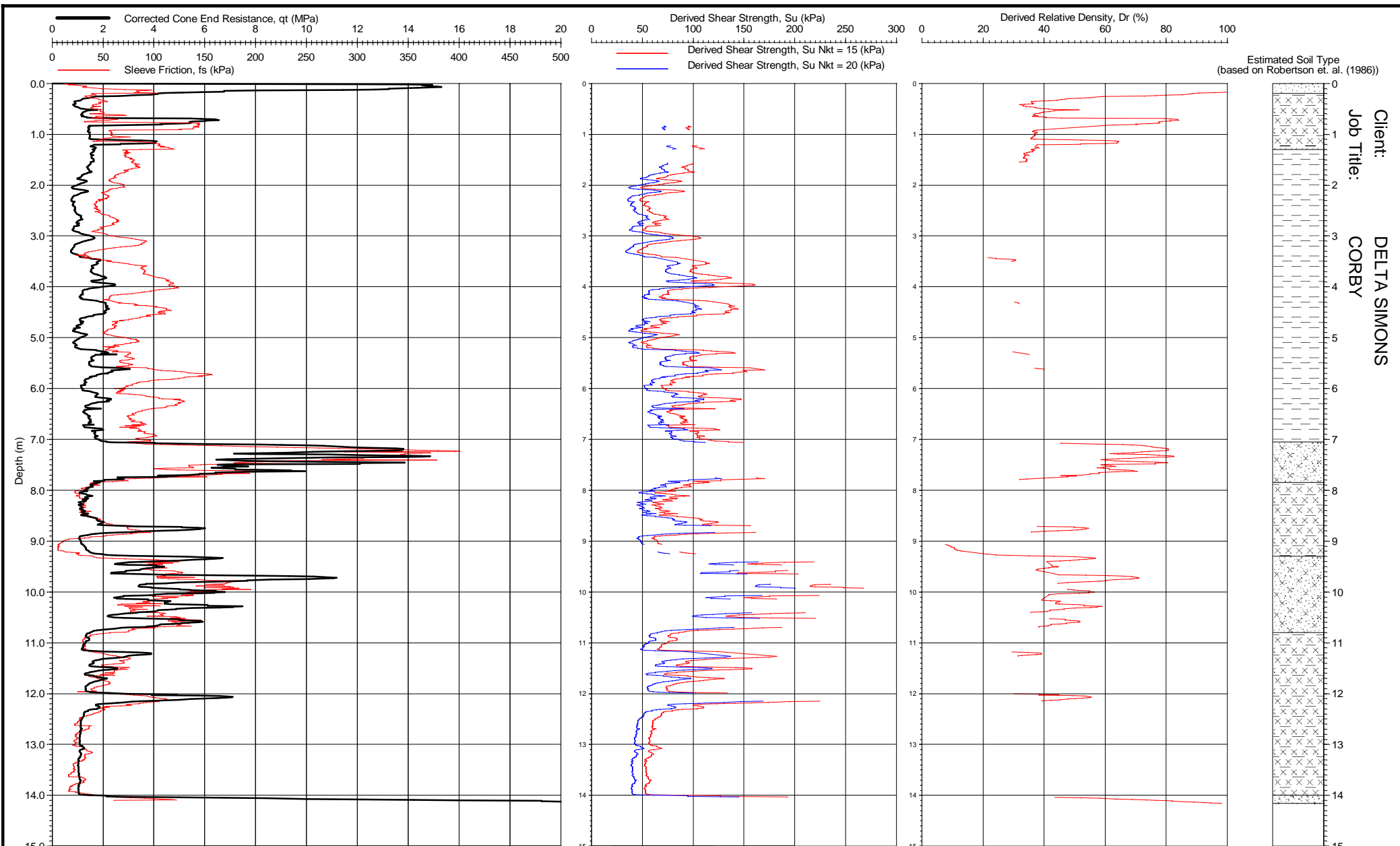


Client: DELTA SIMONS  
 Job Title: CORBY

Location: Corby  
 Coordinates: 490947.750E - 290902.420N  
 Ground Level: 106.55 m aD  
 Cone & Rig Used: S15-CFIP.1093 - CPT 008  
 Remarks: Test refused on total pressure.

Date of Test: 03/09/2015  
 Date of Plot: 13/10/2015  
 File Name: 1150281 - CPT 108  
 Checked By: *[Signature]*

**IN SITU** PIEZO CONE PENETRATION TEST  
 SITE INVESTIGATION CPT 108  
 insitusi.com

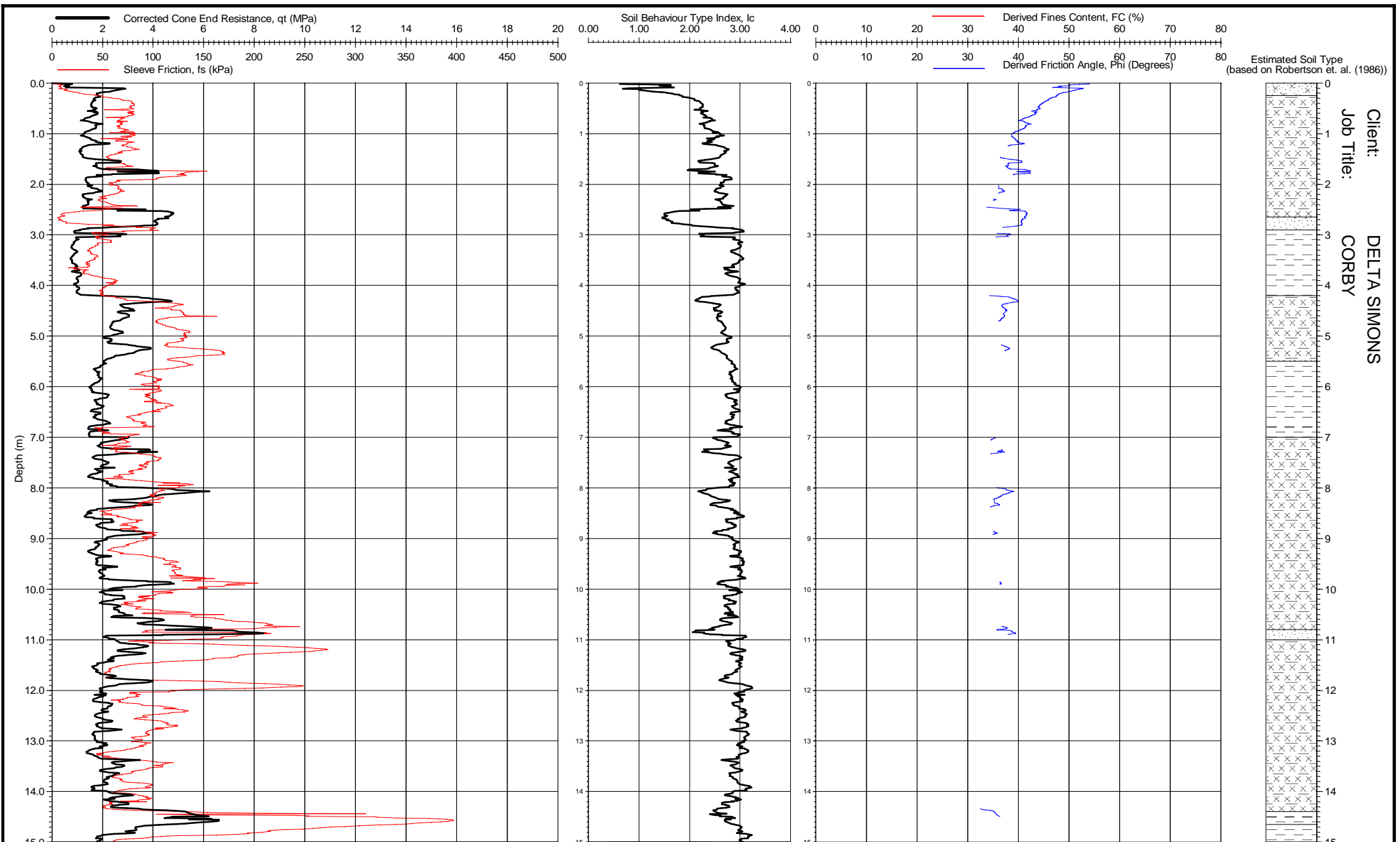


Client: DELTA SIMONS  
 Job Title: CORBY

Location: Corby  
 Coordinates: 490907.410E - 290883.580N  
 Ground Level: 106.75 m aD  
 Cone & Rig Used: S15-CFIP.1093 - CPT 008  
 Remarks: Test refused on total pressure.

Date of Test: 03/09/2015  
 Date of Plot: 13/10/2015  
 File Name: 1150281 - CPT 109  
 Checked By: *[Signature]*

**IN SITU** PIEZO CONE PENETRATION TEST  
 SITE INVESTIGATION CPT 109  
 insitusi.com

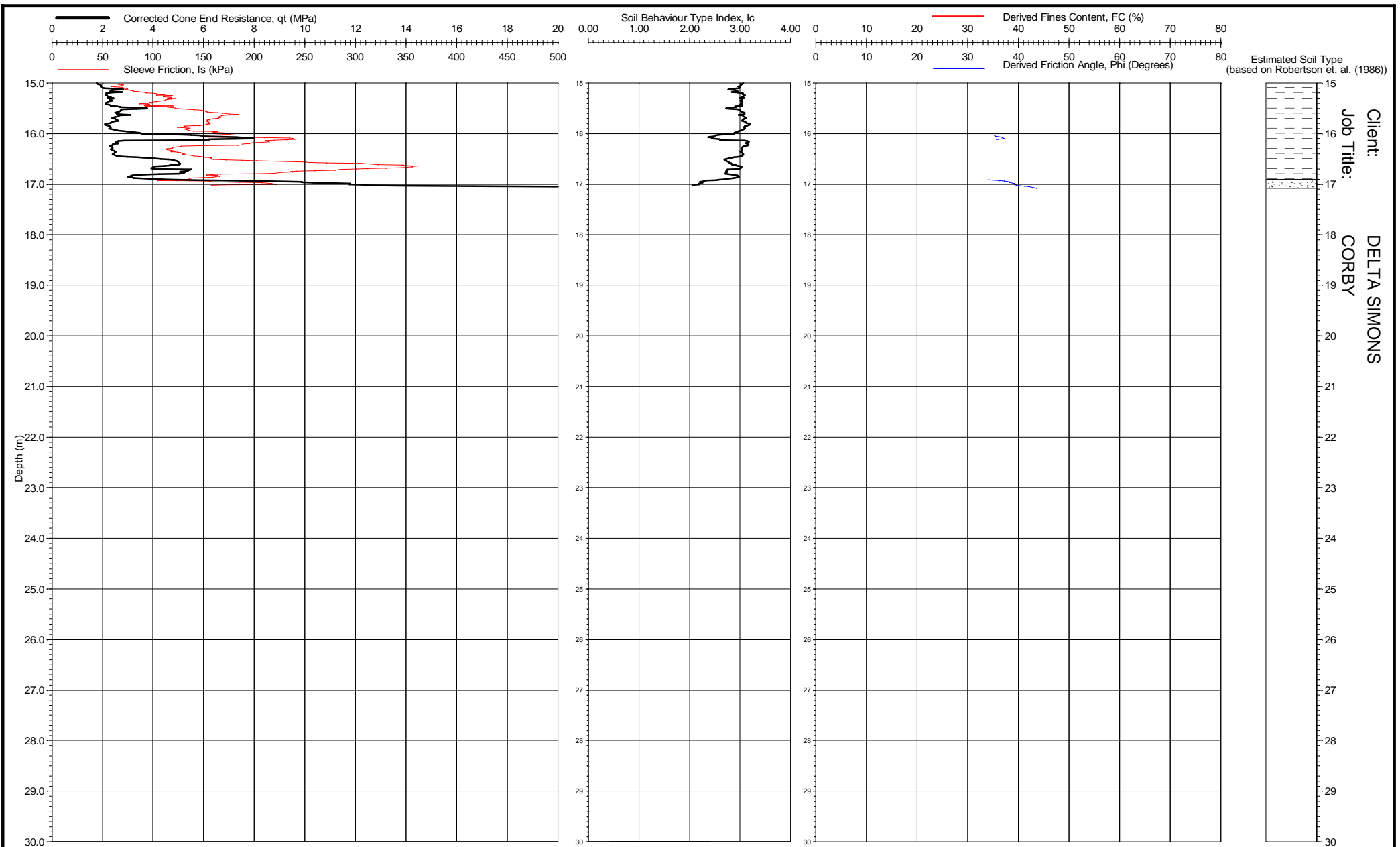


Client: DELTA SIMONS  
 Job Title: CORBY

Location: Corby  
 Coordinates: 491070.280E - 290870.590N  
 Ground Level: 104.04 m aD  
 Cone & Rig Used: S15-CFIP.1093 - CPT 008  
 Remarks: Test refused on total pressure.

Date of Test: 02/09/2015  
 Date of Plot: 13/10/2015  
 File Name: 1150281 - CPT 101  
 Checked By: *[Signature]*

**IN SITU** PIEZO CONE PENETRATION TEST  
 SITE INVESTIGATION CPT 101  
 insitusi.com



Location: Corby  
 Coordinates: 491070.280E - 290870.590N  
 Ground Level: 104.04 m aD  
 Cone & Rig Used: S15-CFIP.1093 - CPT 008  
 Remarks: Test refused on total pressure.

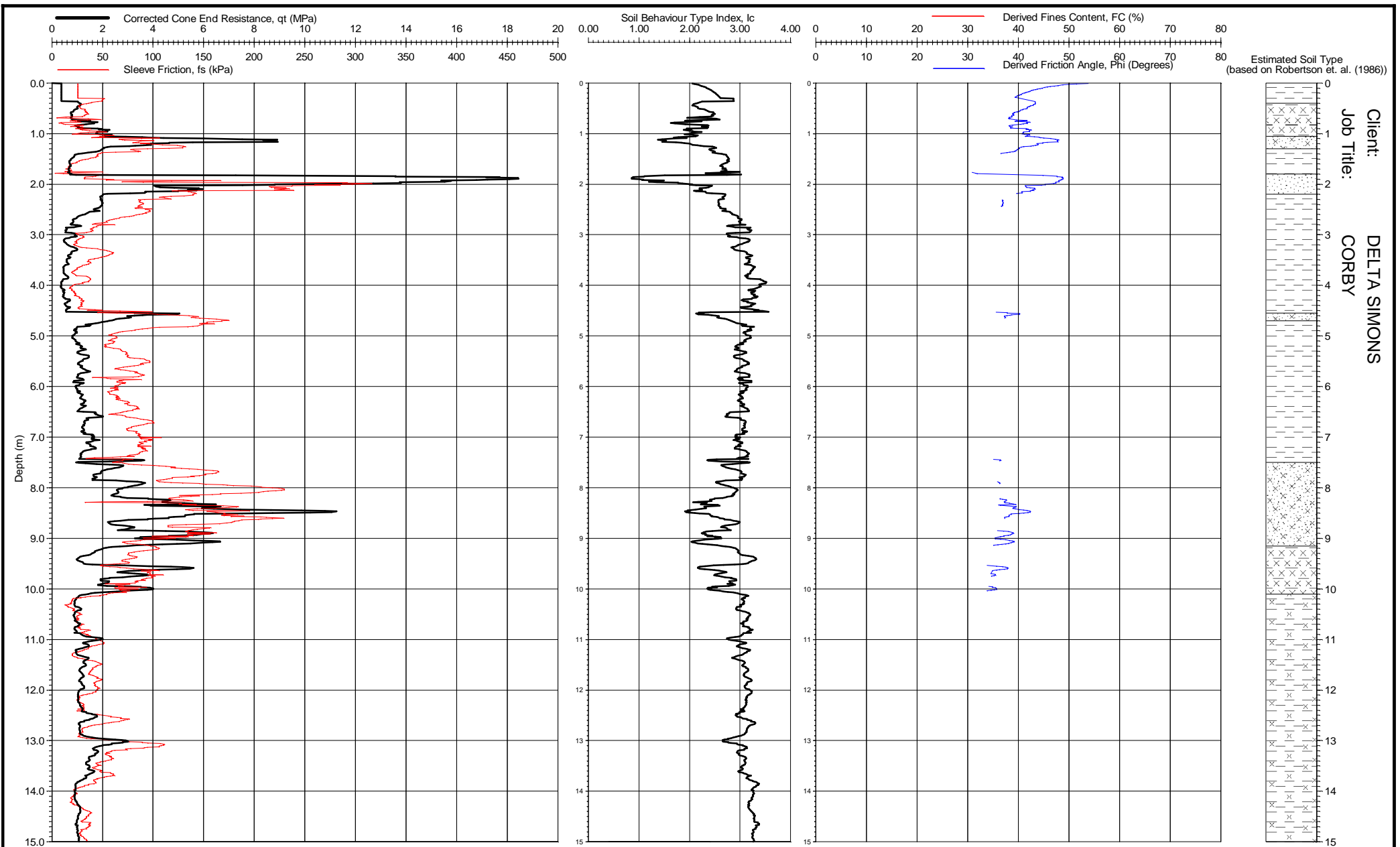
Date of Test: 02/09/2015  
 Date of Plot: 13/10/2015  
 File Name: 1150281 - CPT 101  
 Checked By: *[Signature]*

**IN SITU** PIEZO CONE PENETRATION TEST  
 SITE INVESTIGATION CPT 101  
 insitusi.com

Form: CPT0005

Client: DELTA SIMONS  
 Job Title: CORBY



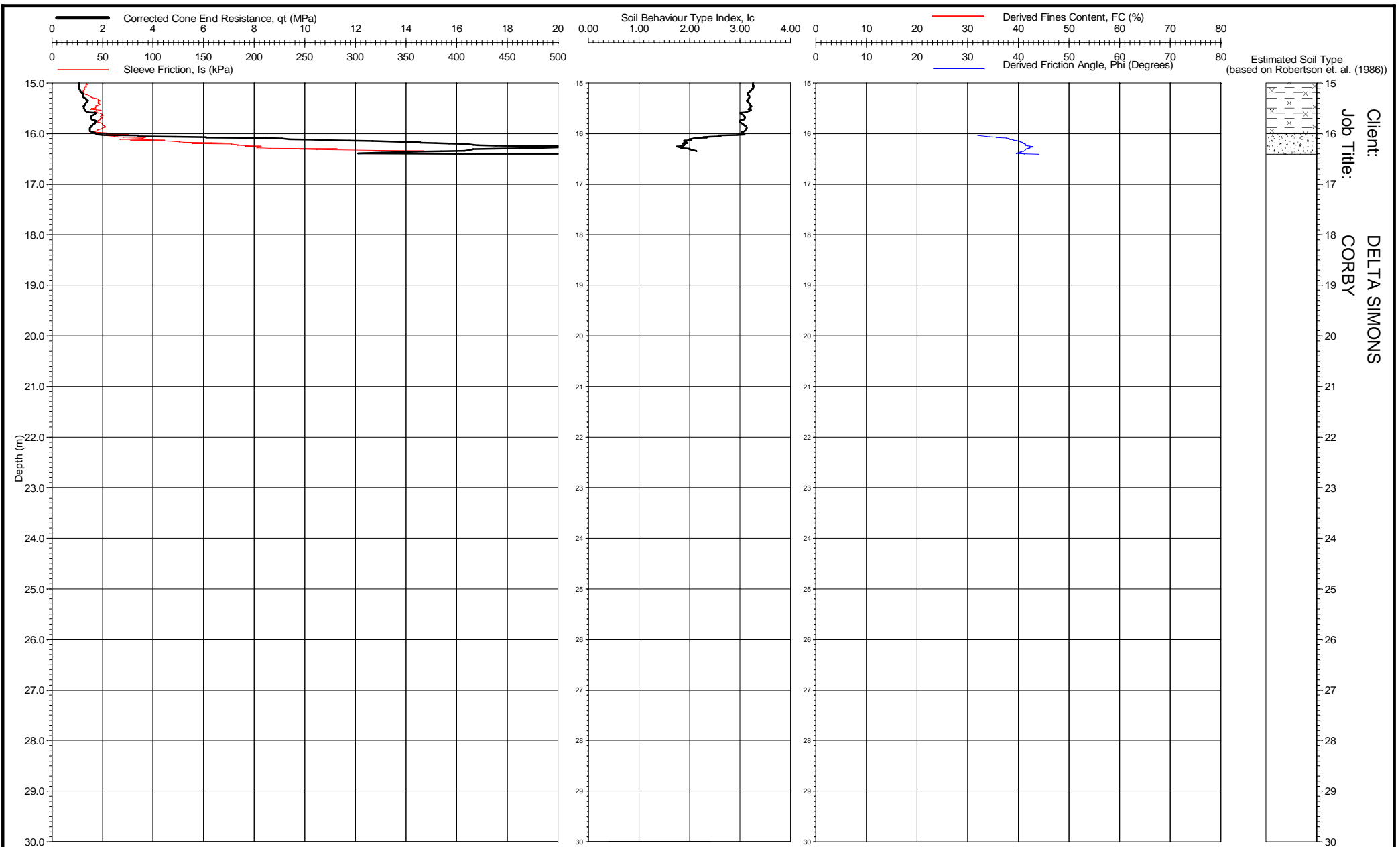


Client: DELTA SIMONS  
 Job Title: CORBY

Location: Corby  
 Coordinates: 491021.740E - 290918.910N  
 Ground Level: 105.55 m aD  
 Cone & Rig Used: S15-CFIP.1093 - CPT 008  
 Remarks: Test refused on total pressure.

Date of Test: 02/09/2015  
 Date of Plot: 13/10/2015  
 File Name: 1150281 - CPT 102  
 Checked By: *[Signature]*

**IN SITU** PIEZO CONE PENETRATION TEST  
 SITE INVESTIGATION CPT 102  
 insitusi.com

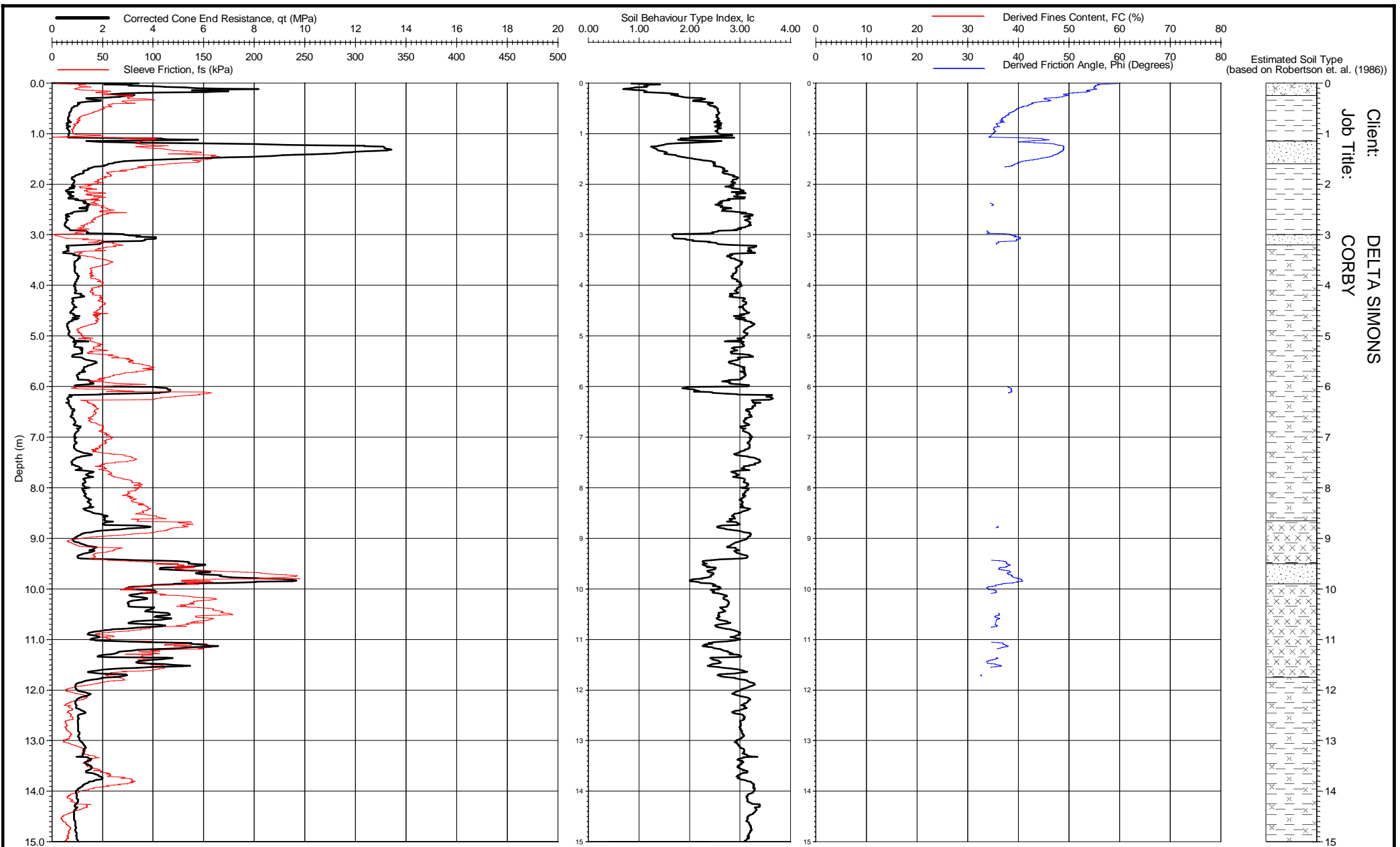


Location: Corby  
 Coordinates: 491021.740E - 290918.910N  
 Ground Level: 105.55 m aD  
 Cone & Rig Used: S15-CFIP.1093 - CPT 008  
 Remarks: Test refused on total pressure.

Date of Test: 02/09/2015  
 Date of Plot: 13/10/2015  
 File Name: 1150281 - CPT 102  
 Checked By: *[Signature]*

**IN SITU** PIEZO CONE PENETRATION TEST  
 SITE INVESTIGATION CPT 102  
 insitusi.com

Client: DELTA SIMONS  
 Job Title: CORBY

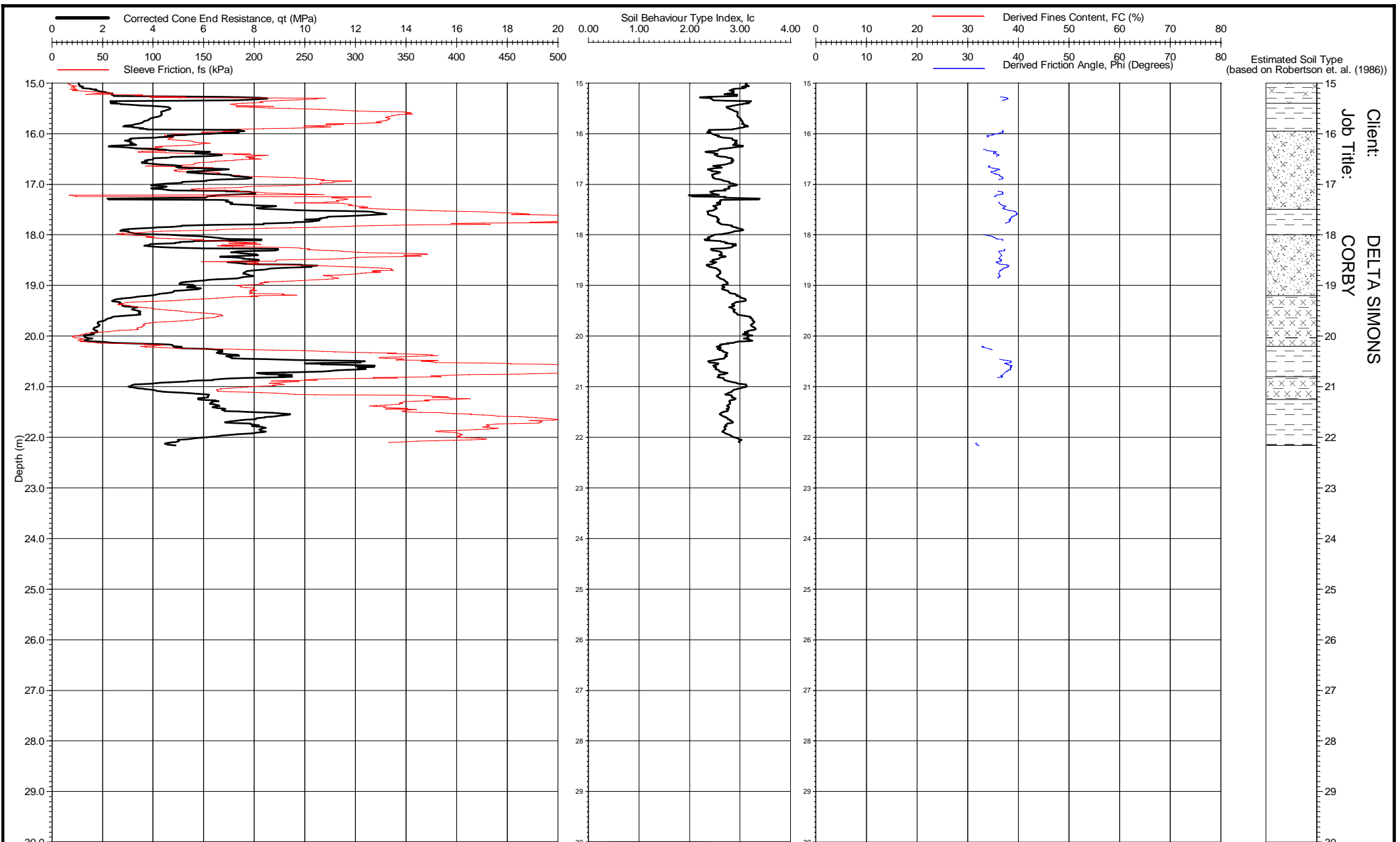


Client: DELTA SIMONS  
 Job Title: CORBY

Location: Corby  
 Coordinates: 490958.570E - 290901.230N  
 Ground Level: 106.26 m aD  
 Cone & Rig Used: S15-CFIP.1093 - CPT 008  
 Remarks: Test refused on total pressure.

Date of Test: 02/09/2015  
 Date of Plot: 13/10/2015  
 File Name: 1150281 - CPT 103  
 Checked By: *[Signature]*

**IN SITU** PIEZO CONE PENETRATION TEST  
 SITE INVESTIGATION CPT 103  
 insitusi.com

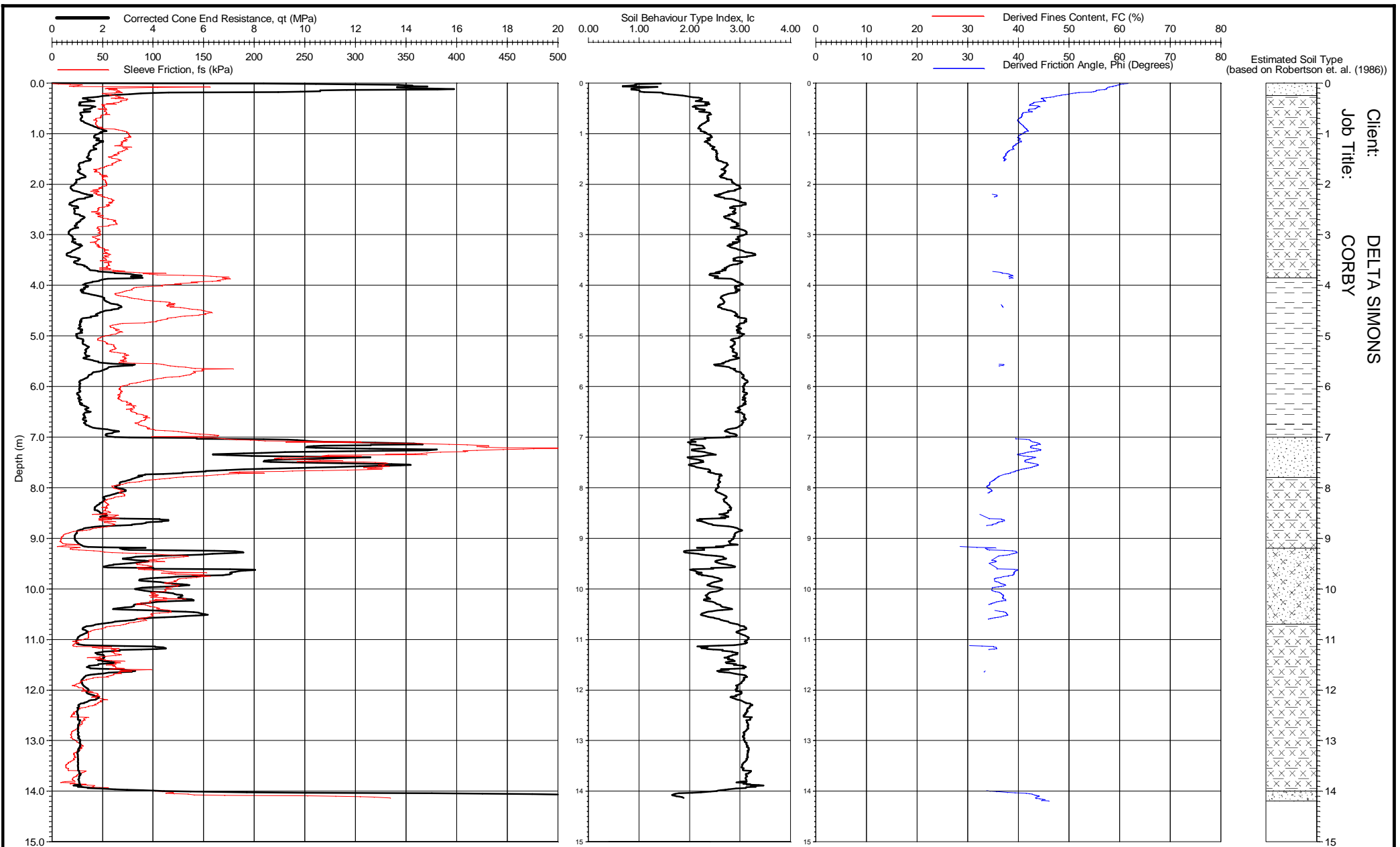


Client: DELTA SIMONS  
 Job Title: CORBY

Location: Corby  
 Coordinates: 490958.570E - 290901.230N  
 Ground Level: 106.26 m aD  
 Cone & Rig Used: S15-CFIP.1093 - CPT 008  
 Remarks: Test refused on total pressure.

Date of Test: 02/09/2015  
 Date of Plot: 13/10/2015  
 File Name: 1150281 - CPT 103  
 Checked By: *[Signature]*

**IN SITU** PIEZO CONE PENETRATION TEST  
 SITE INVESTIGATION CPT 103  
 insitusi.com

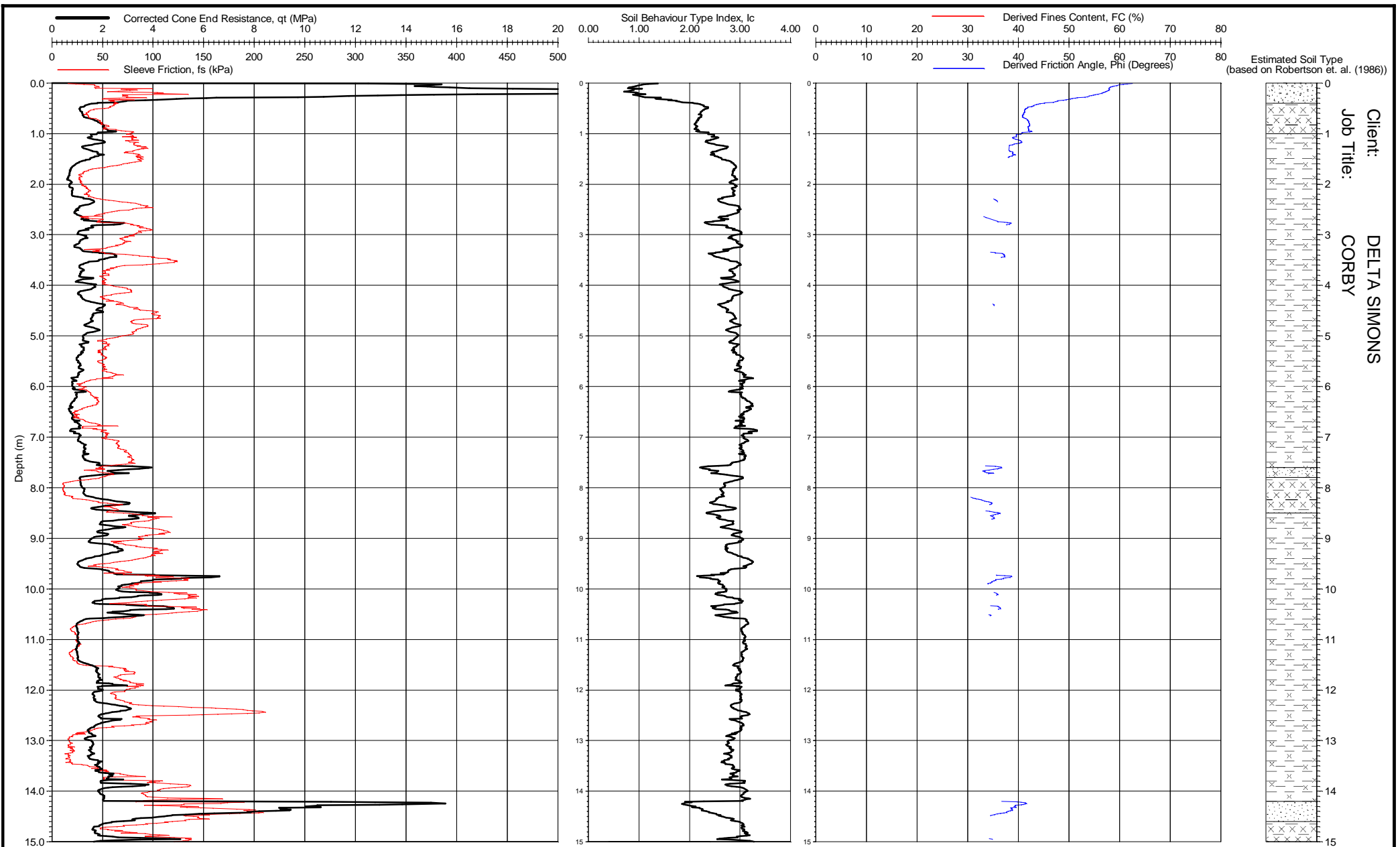


Client: DELTA SIMONS  
 Job Title: CORBY

Location: Corby  
 Coordinates: 490907.410E - 290883.580N  
 Ground Level: 106.75 m aD  
 Cone & Rig Used: S15-CFIP.1093 - CPT 008  
 Remarks: Test refused on total pressure.

Date of Test: 02/09/2015  
 Date of Plot: 13/10/2015  
 File Name: 1150281 - CPT 104  
 Checked By: *[Signature]*

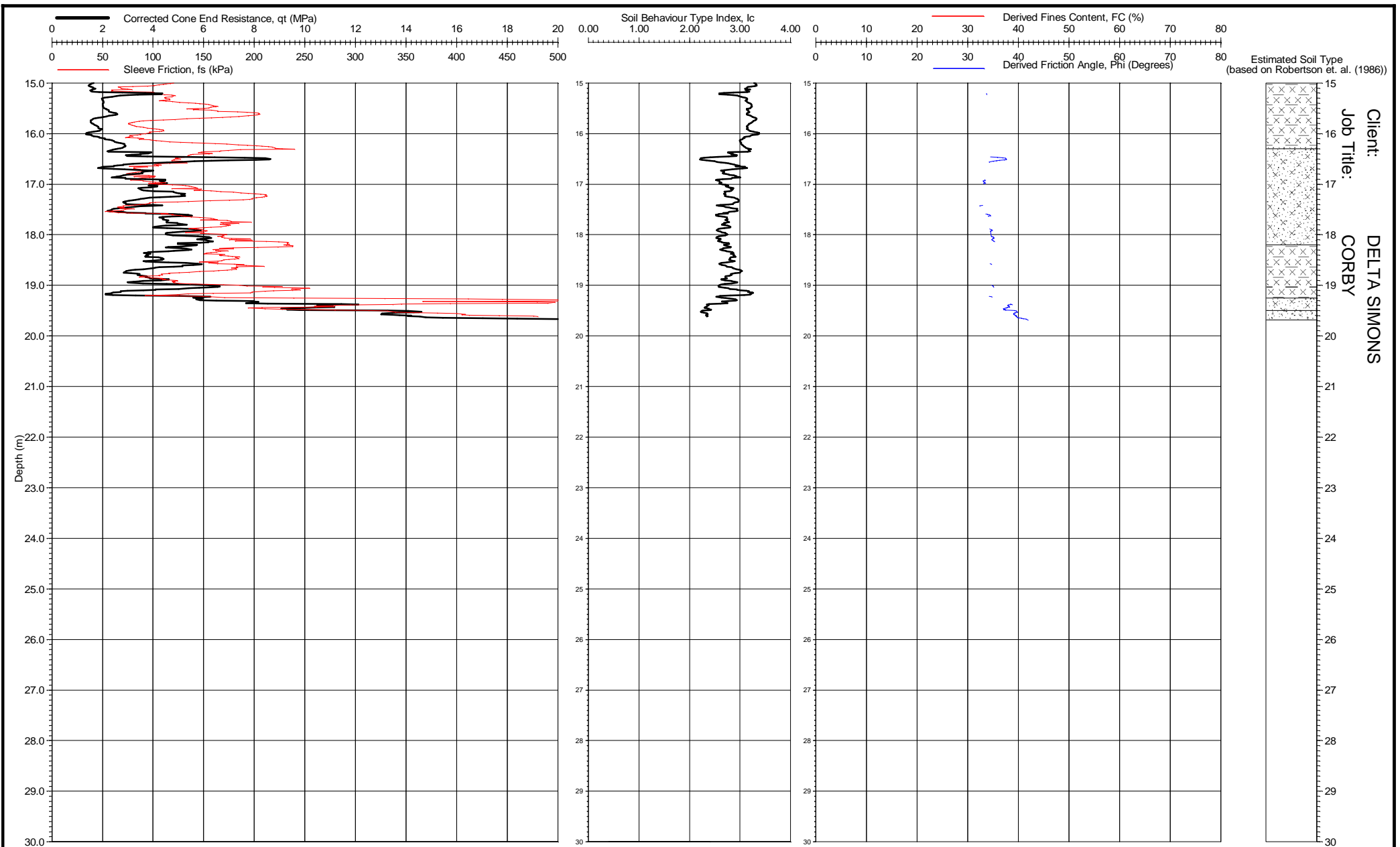
**IN SITU** PIEZO CONE PENETRATION TEST  
 SITE INVESTIGATION CPT 104  
 insitusi.com



Location: Corby  
 Coordinates: 490910.010E - 290839.530N  
 Ground Level: 105.95 m aD  
 Cone & Rig Used: S15-CFIP.1093 - CPT 008  
 Remarks: Test refused on total pressure.

Date of Test: 02/09/2015  
 Date of Plot: 13/10/2015  
 File Name: 1150281 - CPT 105  
 Checked By: *[Signature]*

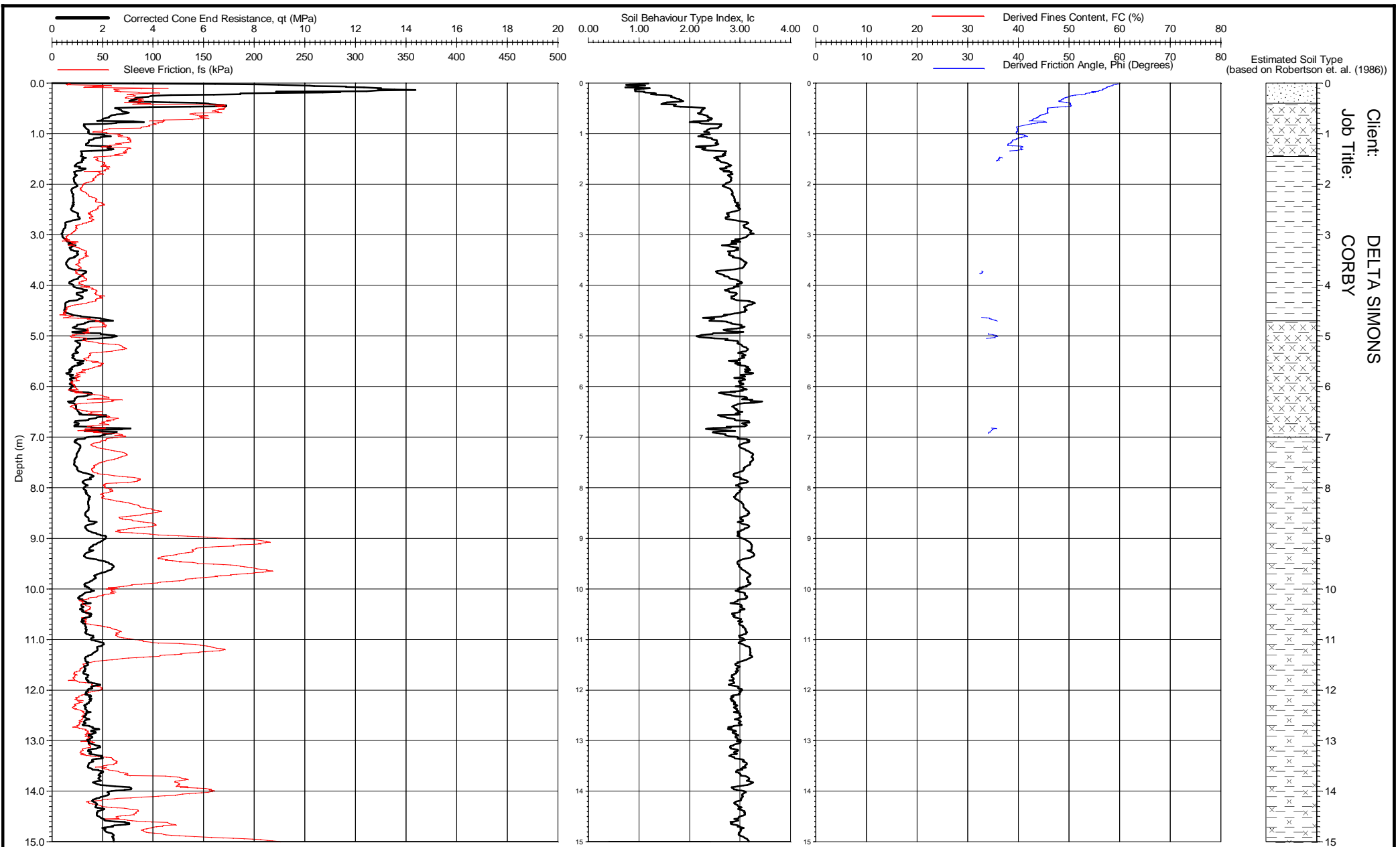
**IN SITU** PIEZO CONE PENETRATION TEST  
 SITE INVESTIGATION CPT 105  
 insitusi.com



Location: Corby  
 Coordinates: 490910.010E - 290839.530N  
 Ground Level: 105.95 m aD  
 Cone & Rig Used: S15-CFIP.1093 - CPT 008  
 Remarks: Test refused on total pressure.

Date of Test: 02/09/2015  
 Date of Plot: 13/10/2015  
 File Name: 1150281 - CPT 105  
 Checked By: *[Signature]*

**IN SITU** PIEZO CONE PENETRATION TEST  
 SITE INVESTIGATION CPT 105  
 insitusi.com



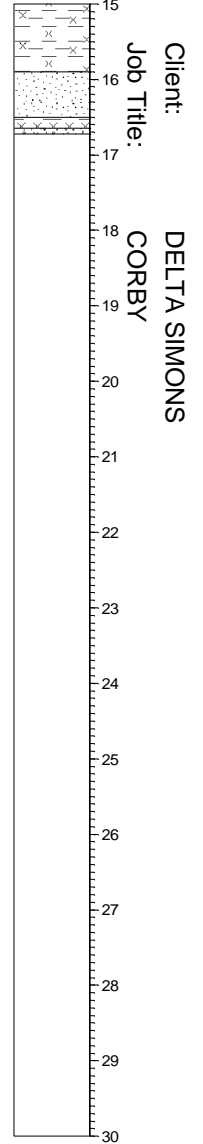
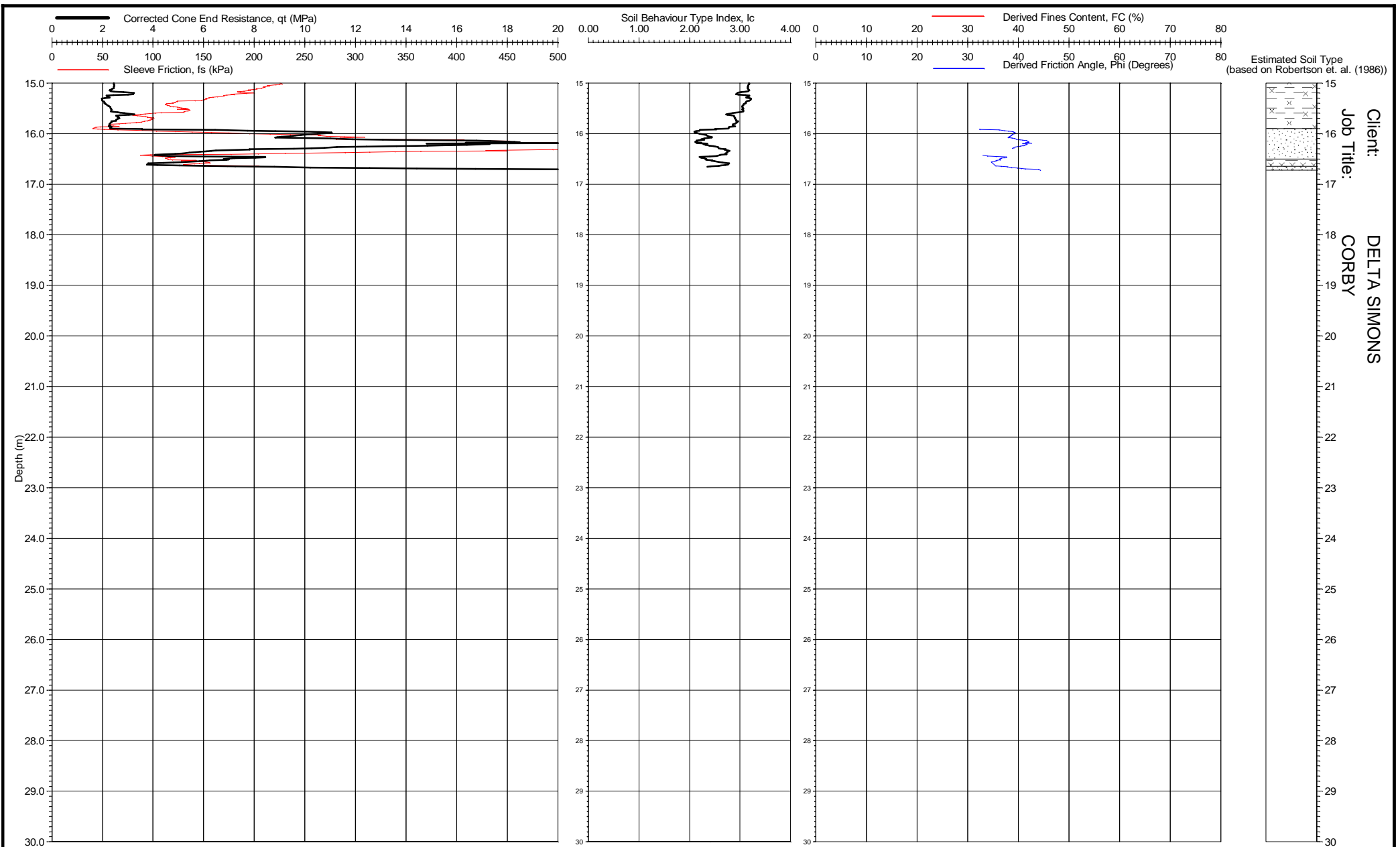
Client: DELTA SIMONS  
 Job Title: CORBY

Location: Corby  
 Coordinates: 490856.190E - 290812.940N  
 Ground Level: 106.48 m aD  
 Cone & Rig Used: S15-CFIP.1093 - CPT 008  
 Remarks: Test refused on total pressure.

Date of Test: 02/09/2015  
 Date of Plot: 13/10/2015  
 File Name: 1150281 - CPT 106  
 Checked By: *[Signature]*

**IN SITU** PIEZO CONE PENETRATION TEST  
 SITE INVESTIGATION CPT 106  
 insitusi.com

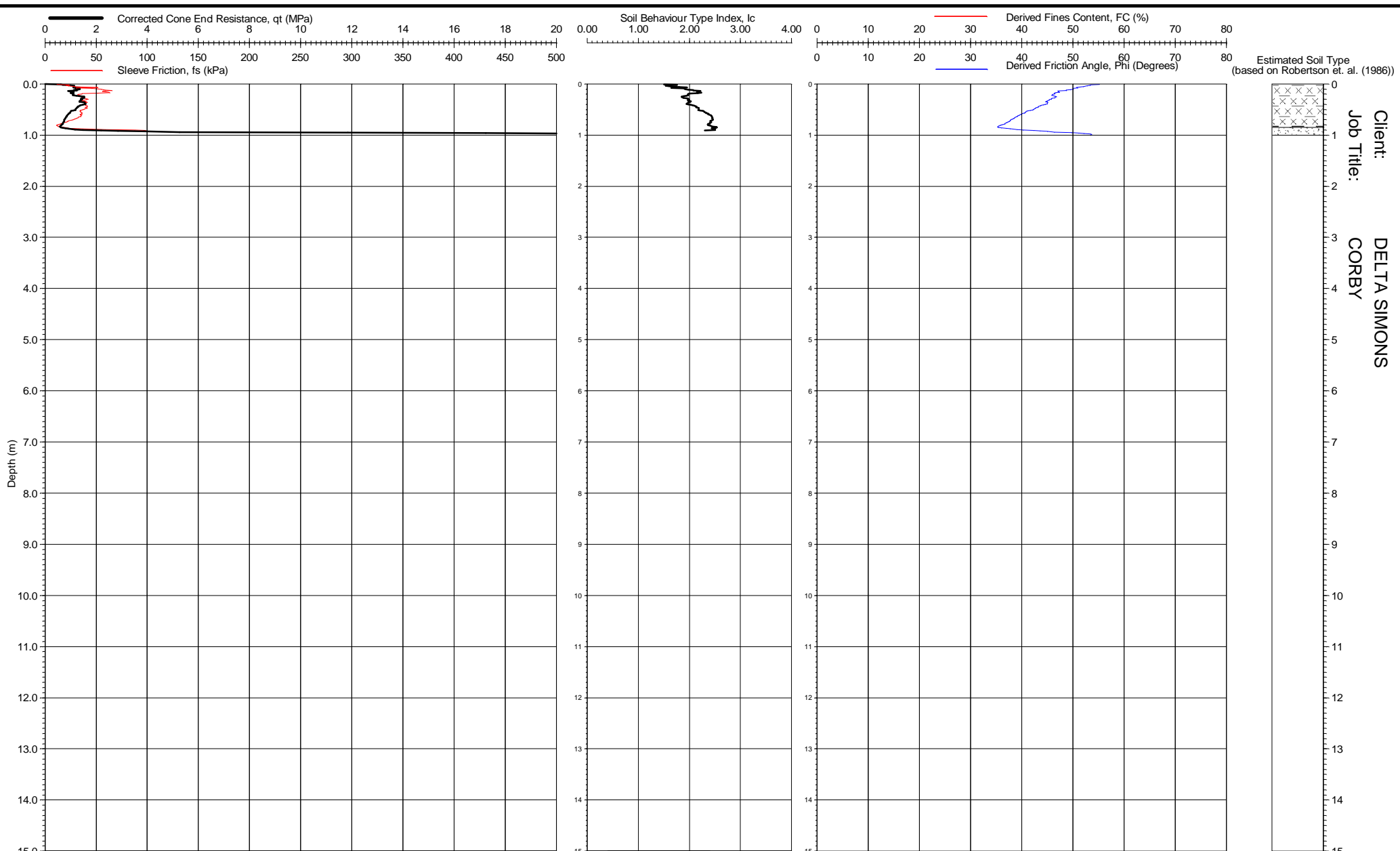




Location: Corby  
 Coordinates: 490856.190E - 290812.940N  
 Ground Level: 106.48 m aD  
 Cone & Rig Used: S15-CFIP.1093 - CPT 008  
 Remarks: Test refused on total pressure.

Date of Test: 02/09/2015  
 Date of Plot: 13/10/2015  
 File Name: 1150281 - CPT 106  
 Checked By: *[Signature]*

**IN SITU** PIEZO CONE PENETRATION TEST  
 SITE INVESTIGATION CPT 106  
 insitusi.com

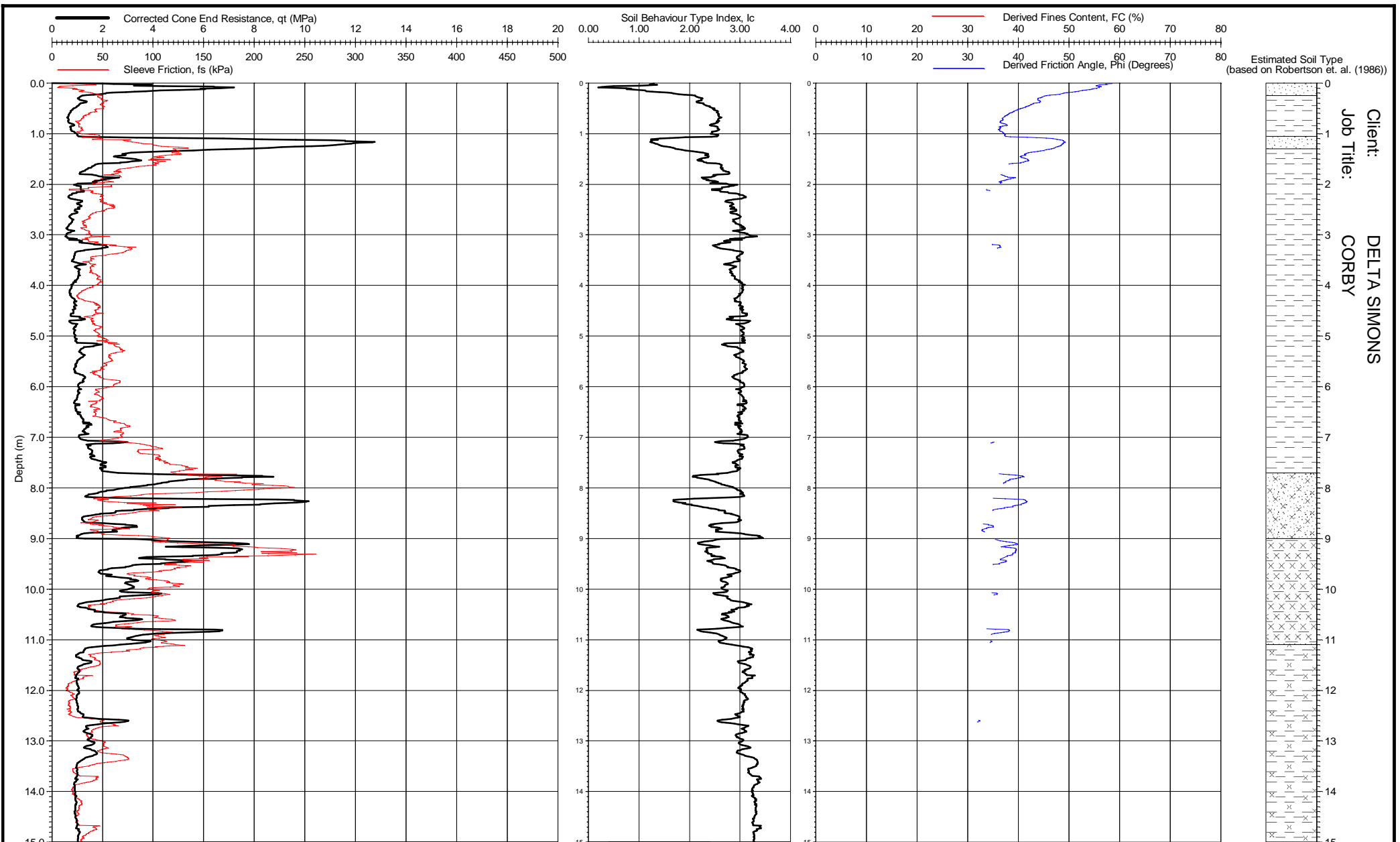


Client: DELTA SIMONS  
 Job Title: CORBY

Location: Corby  
 Coordinates: 490958.570E - 290901.230N  
 Ground Level: 106.26 m aD  
 Cone & Rig Used: S15-CFIP.1093 - CPT 008  
 Remarks: Test refused on total pressure.

Date of Test: 03/09/2015  
 Date of Plot: 13/10/2015  
 File Name: 1150281 - CPT 107  
 Checked By: *[Signature]*

**IN SITU** PIEZO CONE PENETRATION TEST  
 SITE INVESTIGATION CPT 107  
 insitusi.com

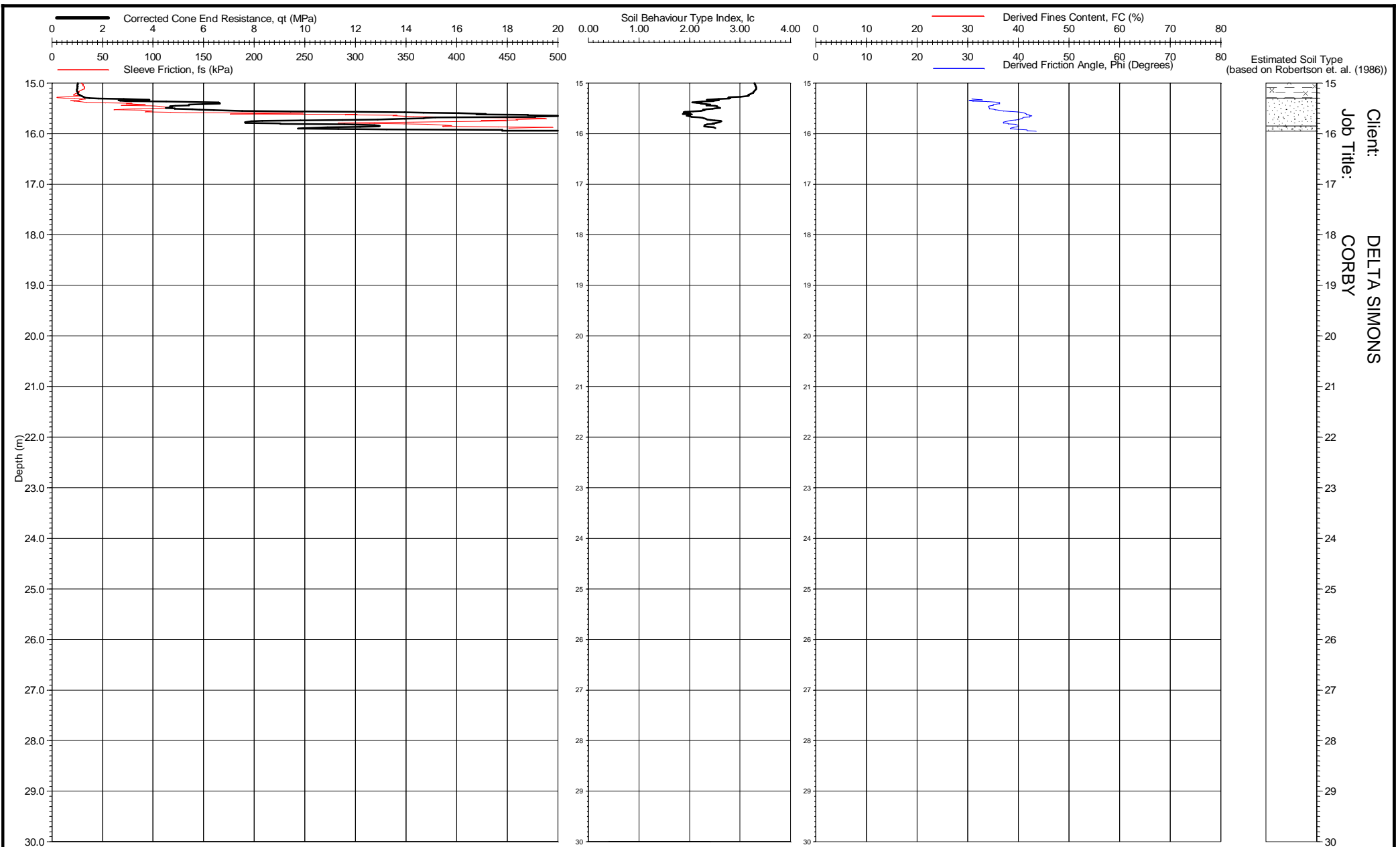


Client: DELTA SIMONS  
 Job Title: CORBY

Location: Corby  
 Coordinates: 490959.570E - 290902.230N  
 Ground Level: 106.26 m aD  
 Cone & Rig Used: S15-CFIP.1093 - CPT 008  
 Remarks: Test refused on total pressure.

Date of Test: 03/09/2015  
 Date of Plot: 13/10/2015  
 File Name: 1150281 - CPT 107A  
 Checked By: *[Signature]*

**IN SITU** PIEZO CONE PENETRATION TEST  
 SITE INVESTIGATION CPT 107A  
 insitusi.com



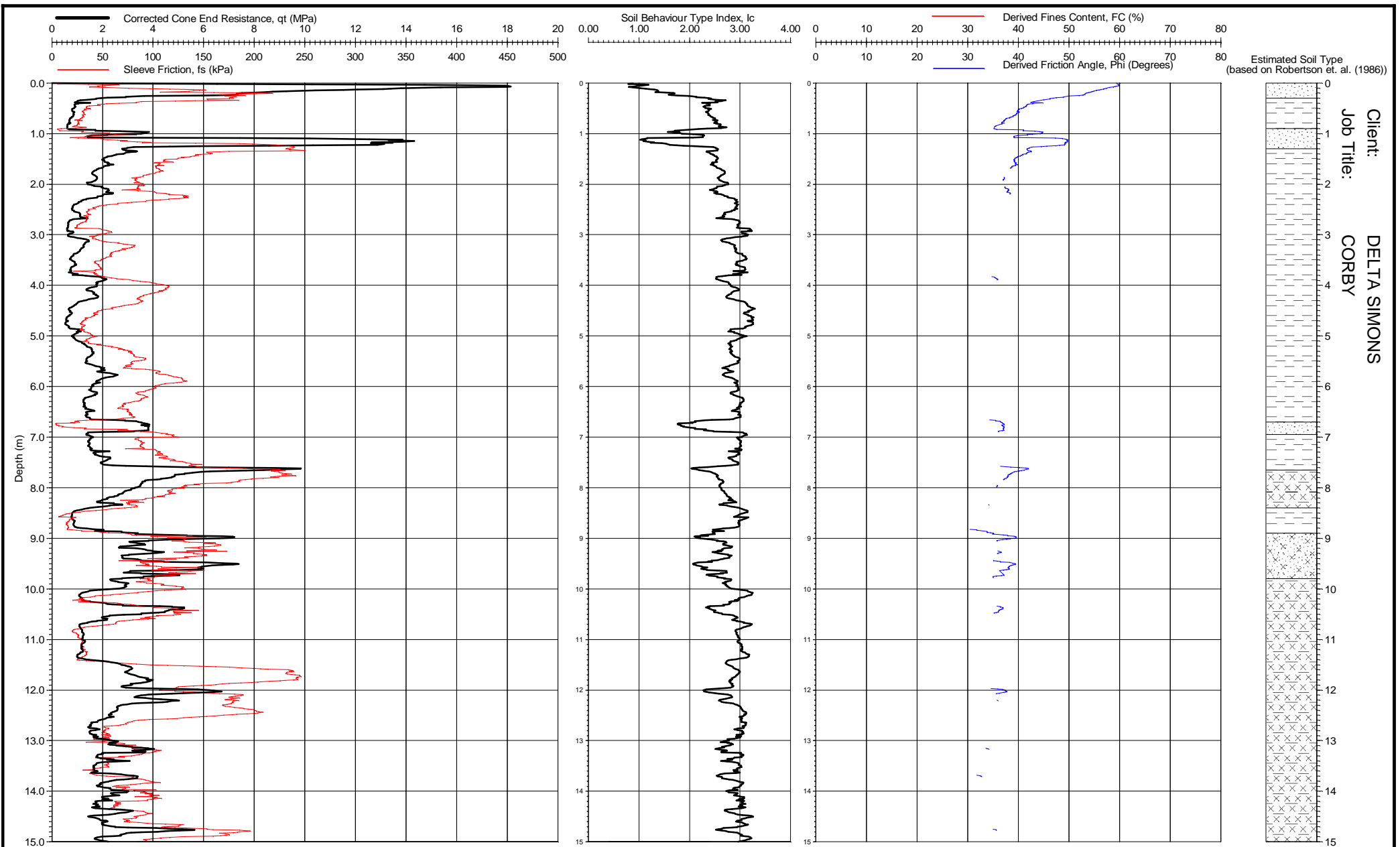
Estimated Soil Type  
(based on Robertson et. al. (1986))

Client: DELTA SIMONS  
Job Title: CORBY

Location: Corby  
Coordinates: 490959.570E - 290902.230N  
Ground Level: 106.26 m aD  
Cone & Rig Used: S15-CFIP.1093 - CPT 008  
Remarks: Test refused on total pressure.

Date of Test: 03/09/2015  
Date of Plot: 13/10/2015  
File Name: 1150281 - CPT 107A  
Checked By: *[Signature]*

**IN SITU** PIEZO CONE PENETRATION TEST  
SITE INVESTIGATION CPT 107A  
[insitusi.com](http://insitusi.com)

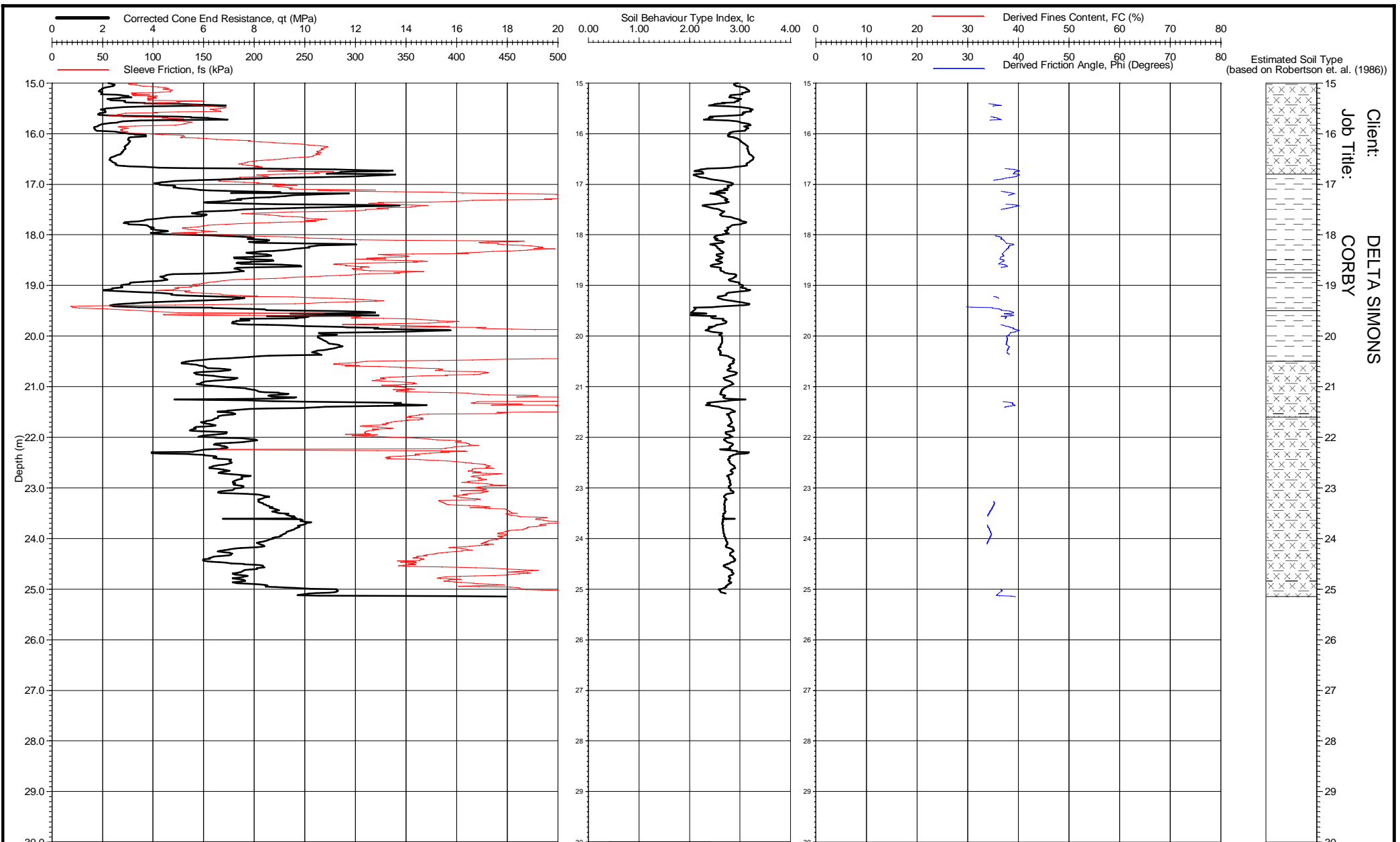


Client: DELTA SIMONS  
 Job Title: CORBY

Location: Corby  
 Coordinates: 490947.750E - 290902.420N  
 Ground Level: 106.55 m aD  
 Cone & Rig Used: S15-CFIP.1093 - CPT 008  
 Remarks: Test refused on total pressure.

Date of Test: 03/09/2015  
 Date of Plot: 13/10/2015  
 File Name: 1150281 - CPT 108  
 Checked By: *[Signature]*

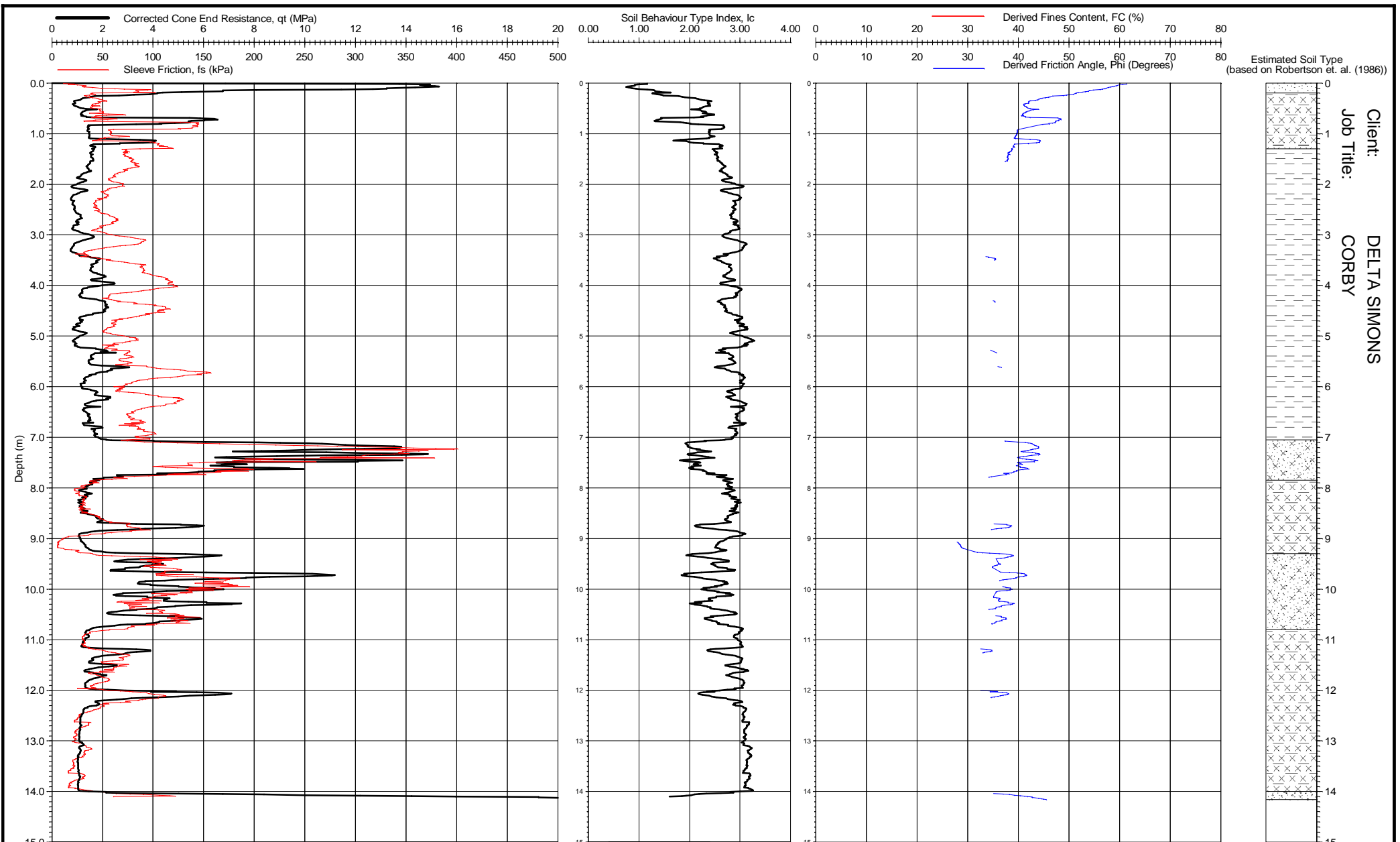
**IN SITU** PIEZO CONE PENETRATION TEST  
 SITE INVESTIGATION CPT 108  
 insitusi.com



Location: Corby  
 Coordinates: 490947.750E - 290902.420N  
 Ground Level: 106.55 m aD  
 Cone & Rig Used: S15-CFIP.1093 - CPT 008  
 Remarks: Test refused on total pressure.

Date of Test: 03/09/2015  
 Date of Plot: 13/10/2015  
 File Name: 1150281 - CPT 108  
 Checked By: *[Signature]*

**IN SITU** PIEZO CONE PENETRATION TEST  
 SITE INVESTIGATION CPT 108  
 insitusi.com



Location: Corby  
 Coordinates: 490907.410E - 290883.580N  
 Ground Level: 106.75 m aD  
 Cone & Rig Used: S15-CFIP.1093 - CPT 008  
 Remarks: Test refused on total pressure.

Date of Test: 03/09/2015  
 Date of Plot: 13/10/2015  
 File Name: 1150281 - CPT 109  
 Checked By: *[Signature]*

**IN SITU** PIEZO CONE PENETRATION TEST  
 SITE INVESTIGATION CPT 109  
 insitusi.com







# LABORATORY REPORT



4043

**Contract Number: PSL15/4533**

Client's Reference: 15-0645.02

Report Date: 29 September 2015

Client Name: Delta Simons  
3 Henley Office Park  
Doddington Road  
Lincoln  
LN6 3QR

**For the attention of: Stacey Ragsdale**

Contract Title: Shelton Road, Corby

Date Received: 15/09/2015

Date Commenced: 15/09/2015

Date Completed: 29/09/2015

**Notes: Opinions and Interpretations are outside the UKAS Accreditation**

A copy of the Laboratory Schedule of accredited tests as issued by UKAS is attached to this report. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced in full, without the prior written approval of the laboratory.

Checked and Approved Signatories:

R Gunson  
(Director)

D Lambe  
(Senior Technician)

A Watkins  
(Director)

S Royle  
(Senior Technician)





M Beastall  
(Laboratory Manager)

5 – 7 Hexthorpe Road, Hexthorpe,  
Doncaster DN4 0AR  
tel: +44 (0)844 815 6641  
fax: +44 (0)844 815 6642  
e-mail: [rgunson@prosoils.co.uk](mailto:rgunson@prosoils.co.uk)  
[awatkins@prosoils.co.uk](mailto:awatkins@prosoils.co.uk)

Page 1 of





# SUMMARY OF LABORATORY SOIL DESCRIPTIONS

Hole Number	Sample Number	Sample Type	Depth m	Description of Sample
BH101		B	1.00-1.50	Brown gravelly very sandy silty CLAY.
BH101		U	2.50	Stiff brown gravelly sandy silty CLAY.
BH101		B	11.00-11.50	Brown mottled grey slightly gravelly very sandy silty CLAY.
BH101		U	13.50	Firm brown slightly gravelly sandy silty CLAY.
BH102		D	2.20	Dark brown slightly gravelly very sandy silty CLAY.
BH102		D	11.50	Dark brown silty CLAY with some organic material.
BH102		B	12.00-12.50	Dark grey slightly gravelly very sandy silty CLAY.
BH102		D	14.50	Dark brown silty CLAY with some organic material.
BH103		B	0.50-1.00	Brown very sandy very clayey silty GRAVEL.
BH103		B	3.50-4.00	Brown mottled grey gravelly sandy silty CLAY.
BH103		U	4.50	Firm brown very gravelly very sandy silty CLAY.
BH103		U	16.50	Soft brown slightly gravelly sandy silty CLAY.
BH104		D	3.00	Dark brown slightly gravelly sandy silty CLAY.
BH104		B	10.50-11.00	Brown mottled grey gravelly sandy silty CLAY.
BH105		U	3.50-3.95	Brown slightly gravelly sandy silty CLAY.
BH105		U	12.00-12.45	Brown gravelly sandy silty CLAY.
BH106		B	1.00-1.50	Brown gravelly very sandy silty CLAY.
BH106		D	3.00	Brown slightly gravelly sandy silty CLAY.
BH106		B	4.50-5.00	Brown gravelly very sandy silty CLAY.

 <b>Professional Soils Laboratory</b>	Compiled by	Date	Checked by	Date	Approved by	Date
		29/09/15		29/09/15		29/09/15
	SHELTON ROAD, CORBY.				Contract No:	PSL15/4533
				Client Ref:	15-0645.02	

# SUMMARY OF LABORATORY SOIL DESCRIPTIONS

Hole Number	Sample Number	Sample Type	Depth m	Description of Sample
BH106		U	7.50-7.95	Brown gravelly very sandy silty CLAY.
BH106		D	10.00	Dark brown silty CLAY with some organic material.
BH106		D	11.50	Dark grey gravelly sandy silty CLAY.
BH106		U	13.50-13.95	Dark brown slightly sandy CLAY with some organic material.
BH107		B	1.00-1.50	Grey gravelly very sandy silty CLAY.
BH107		D	3.00	Brown gravelly sandy silty CLAY.
BH107		D	11.50	Grey slightly gravelly very sandy silty CLAY.
BH107		B	12.50-13.00	Grey slightly gravelly very sandy silty CLAY.
BH107		U	16.50	Stiff brown slightly gravelly sandy silty CLAY.
BH108		D	4.00	Brown slightly gravelly sandy silty CLAY.
BH108		B	4.50-5.00	Brown gravelly sandy silty CLAY.
BH108		D	8.00	Dark brown silty CLAY with some organic material.
BH108		B	8.00-8.50	Grey slightly gravelly very sandy silty CLAY.
BH108		U	13.50	Soft brown slightly very sandy silty CLAY.
BH109		B	3.50-4.00	Brown gravelly very sandy silty CLAY.
BH109		D	9.00	Dark brown mottled grey slightly gravelly sandy silty CLAY.
BH110		D	9.00	Dark brown silty CLAY with some organic material.
R1		D	29.00	Dark grey slightly sandy silty CLAY.
R2		D	20.80	Dark grey slightly sandy silty CLAY.

 <b>Professional Soils Laboratory</b>	Compiled by	Date	Checked by	Date	Approved by	Date
		29/09/15		29/09/15		29/09/15
	SHELTON ROAD, CORBY.				Contract No:	PSL15/4533
				Client Ref:	15-0645.02	

# SUMMARY OF LABORATORY SOIL DESCRIPTIONS

Hole Number	Sample Number	Sample Type	Depth m	Description of Sample
R3		D	23.50	Dark grey slightly sandy silty CLAY.
R4		D	25.00	Dark grey slightly sandy silty CLAY.



Compiled by	Date	Checked by	Date	Approved by	Date
	29/09/15		29/09/15		29/09/15
<b>SHELTON ROAD, CORBY.</b>				Contract No:	PSL15/4533
				Client Ref:	15-0645.02





# SUMMARY OF SOIL CLASSIFICATION TESTS

(B.S. 1377 : PART 2 : 1990)

Hole Number	Sample Number	Sample Type	Depth m	Moisture Content % <small>Clause 3.2</small>	Bulk Density Mg/m <sup>3</sup> <small>Clause 7.2</small>	Dry Density Mg/m <sup>3</sup> <small>Clause 7.2</small>	Particle Density Mg/m <sup>3</sup> <small>Clause 8.2</small>	Liquid Limit % <small>Clause 4.3/4.4</small>	Plastic Limit % <small>Clause 5.3</small>	Plasticity Index % <small>Clause 5.4</small>	% Passing .425mm	Remarks
BH102		D	2.20	24				33	19	14	97	Low plasticity CL.
BH102		D	11.50	61				88	42	46	100	Very high plasticity MV.
BH102		D	14.50	64				86	41	45	100	Very high plasticity MV.
BH104		D	3.00	22				40	20	20	98	Intermediate plasticity CI.
BH106		D	3.00	20				37	19	18	95	Intermediate plasticity CI.
BH106		D	10.00	61				100	46	54	100	Extremely high plasticity ME.
BH107		D	3.00	16				40	20	20	90	Intermediate plasticity CI.
BH107		D	11.50	17				31	17	14	95	Low plasticity CL.
BH108		D	4.00	24				46	23	23	98	Intermediate plasticity CI.
BH108		D	8.00	50				81	40	41	100	Very high plasticity MV.
BH109		D	9.00	24				42	21	21	95	Intermediate plasticity CI.
BH110		D	9.00	61				89	42	47	100	Very high plasticity MV.
R1		D	29.00	13				48	23	25	100	Intermediate plasticity CI.
R2		D	20.80	15				50	24	26	100	Intermediate plasticity CI.
R3		D	23.50	19				51	24	27	100	High plasticity CH.
R4		D	25.00	18				60	28	32	100	High plasticity CH.

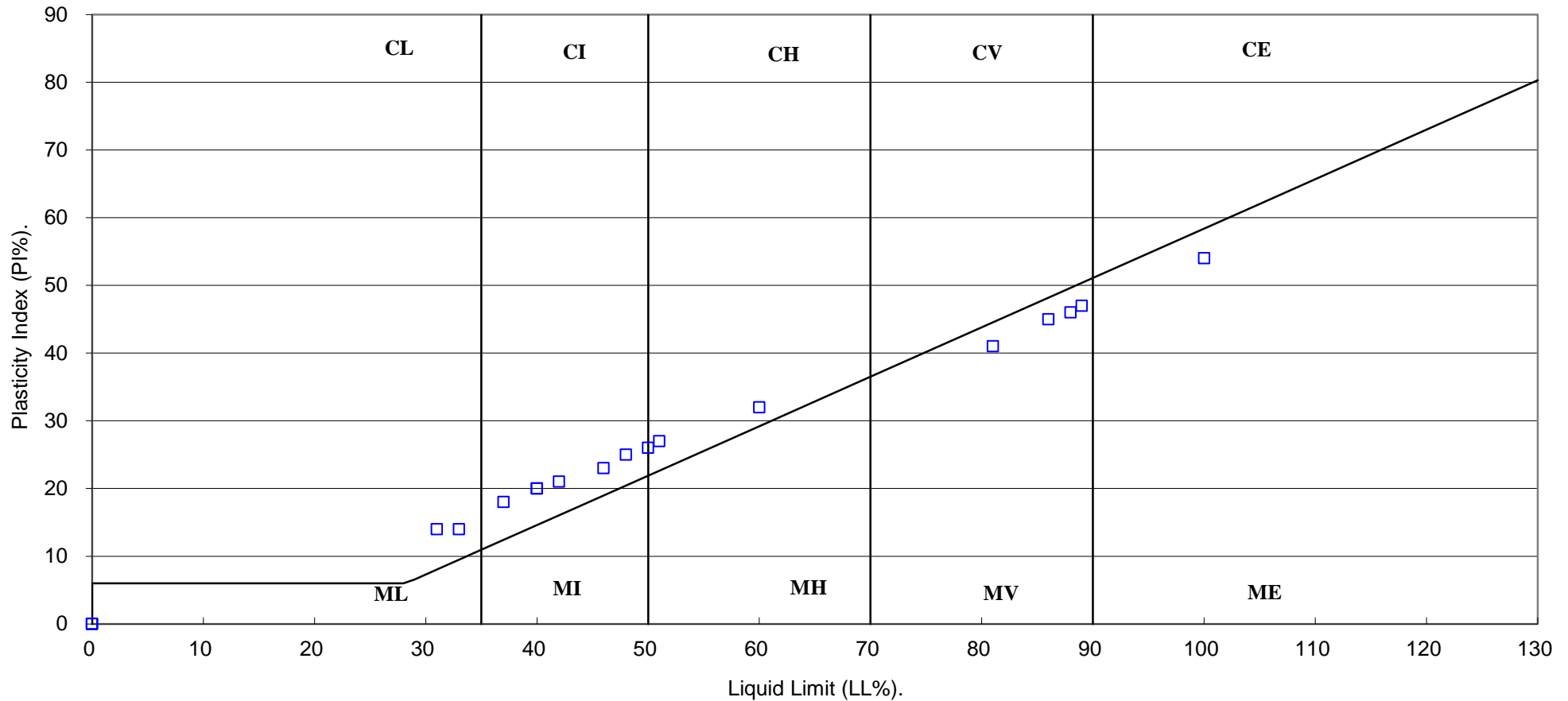
SYMBOLS : NP : Non Plastic

\* : Liquid Limit and Plastic Limit Wet Sieved.

 <b>Professional Soils Laboratory</b>	Compiled by	Date	Checked by	Date	Approved by	Date
		29/09/15		29/09/15		29/09/15
	<b>SHELTON ROAD, CORBY.</b>					Contract No:
					Client Ref:	15-0645.02

# PLASTICITY CHART FOR CASAGRANDE CLASSIFICATION.

(B.S.5930 : 1999)



Compiled by	Date	Checked by	Date	Approved by	Date
<i>[Signature]</i>	29/09/15	<i>[Signature]</i>	29/09/15	<i>[Signature]</i>	29/09/15
<b>SHELTON ROAD, CORBY.</b>				<b>Contract No:</b>	<b>PSL15/4533</b>
				<b>Client Ref:</b>	<b>15-0645.02</b>

# Particle Size Distribution Test

BS1377 : Part 2 : 1990

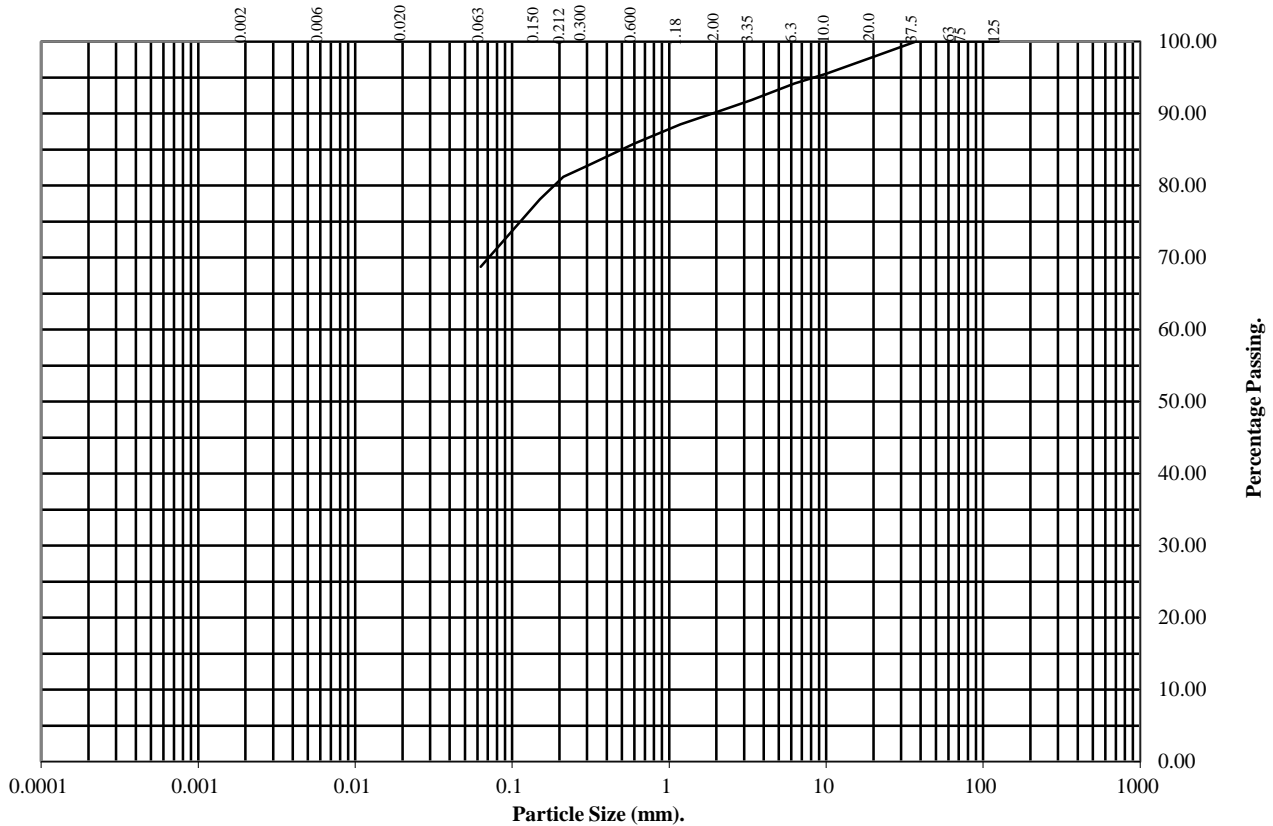
Wet Sieve, Clause 9.2

Hole Number: **BH101**

Depth (m): **1.00-1.50**

Sample Number:

Sample Type: **B**



BS Test Sieve	Percentage Passing
125	100
75	100
63	100
37.5	100
20	98
10	96
6.3	94
3.35	92
2	90
1.18	88
0.6	86
0.3	83
0.212	81
0.15	78
0.063	69

Soil Fraction	Total Percentage
Cobbles	0
Gravel	10
Sand	21
Silt / Clay	69

**Remarks:**  
See summary of soil descriptions.

Checked By	Date	Approved By	Date
	29/09/15		29/09/15

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# Particle Size Distribution Test

BS1377 : Part 2 : 1990

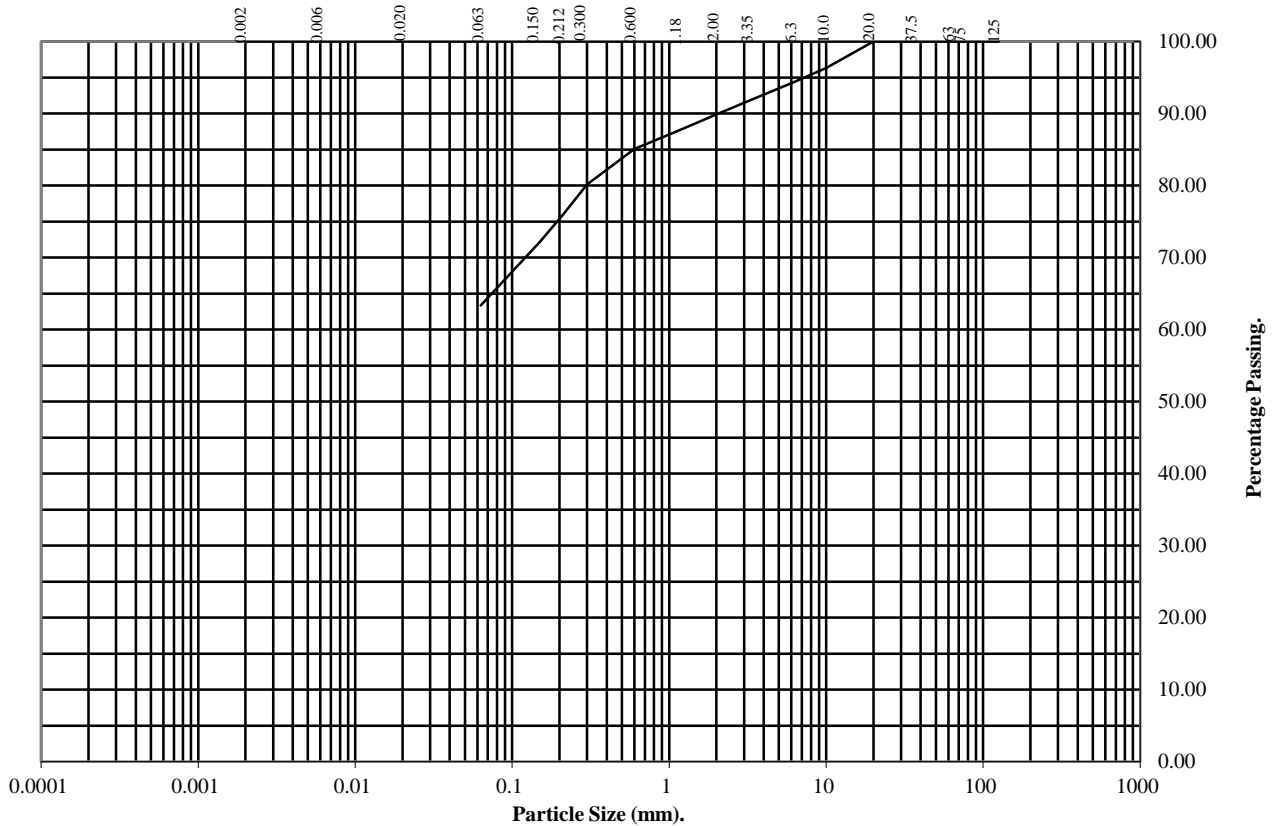
Wet Sieve, Clause 9.2

Hole Number: **BH101**

Depth (m): **11.00-11.50**

Sample Number:

Sample Type: **B**



BS Test Sieve	Percentage Passing
125	100
75	100
63	100
37.5	100
20	100
10	96
6.3	94
3.35	92
2	90
1.18	88
0.6	85
0.3	80
0.212	76
0.15	72
0.063	63

Soil Fraction	Total Percentage
Cobbles	0
Gravel	10
Sand	27
Silt / Clay	63

**Remarks:**  
See summary of soil descriptions.

Checked By	Date	Approved By	Date
	29/09/15		29/09/15

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Contract No.:  
PSL15/4533



# Particle Size Distribution Test

BS1377 : Part 2 : 1990

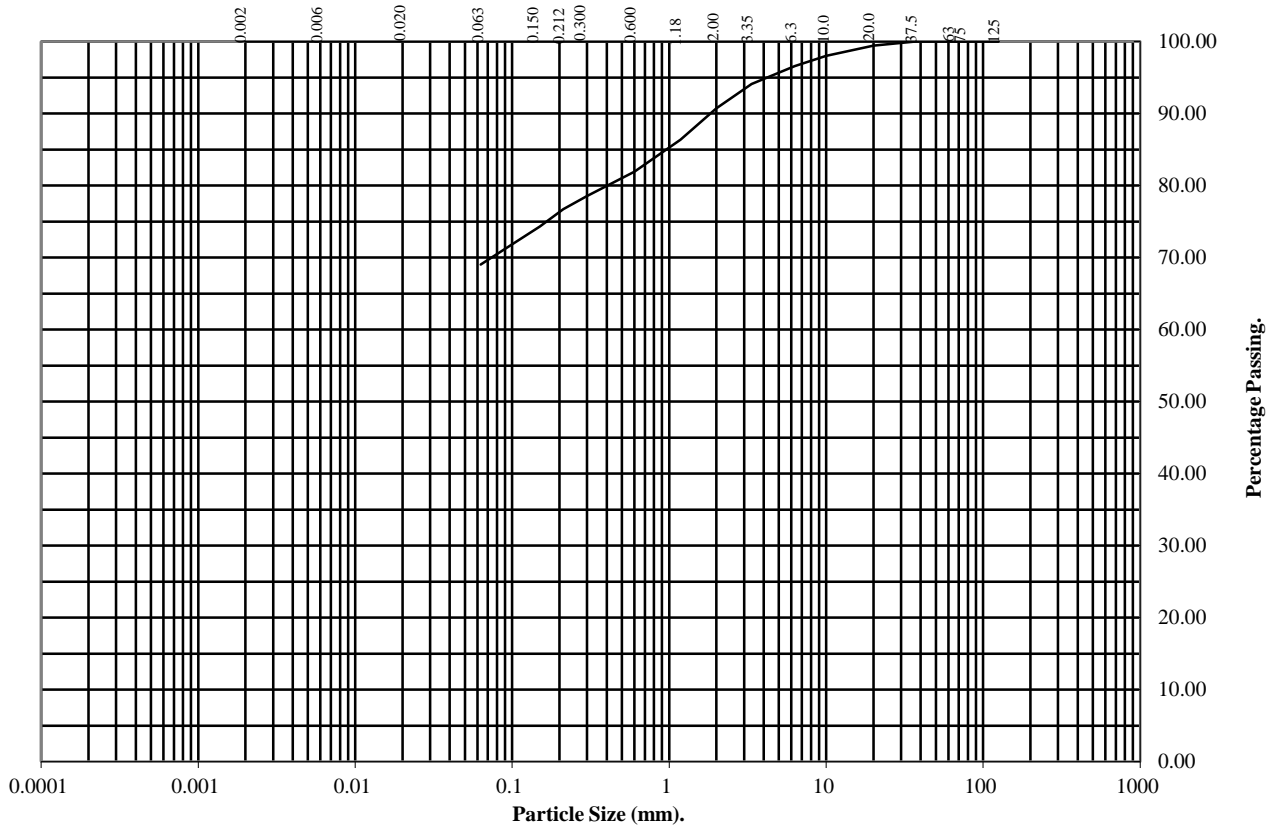
Wet Sieve, Clause 9.2

Hole Number: **BH102**

Depth (m): **12.00-12.50**

Sample Number:

Sample Type: **B**



BS Test Sieve	Percentage Passing
125	100
75	100
63	100
37.5	100
20	99
10	98
6.3	97
3.35	94
2	91
1.18	86
0.6	82
0.3	79
0.212	77
0.15	74
0.063	69

Soil Fraction	Total Percentage
Cobbles	0
Gravel	9
Sand	22
Silt / Clay	69

**Remarks:**  
See summary of soil descriptions.

Checked By	Date	Approved By	Date
	29/09/15		29/09/15

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Contract No.:  
PSL15/4533

# Particle Size Distribution Test

BS1377 : Part 2 : 1990

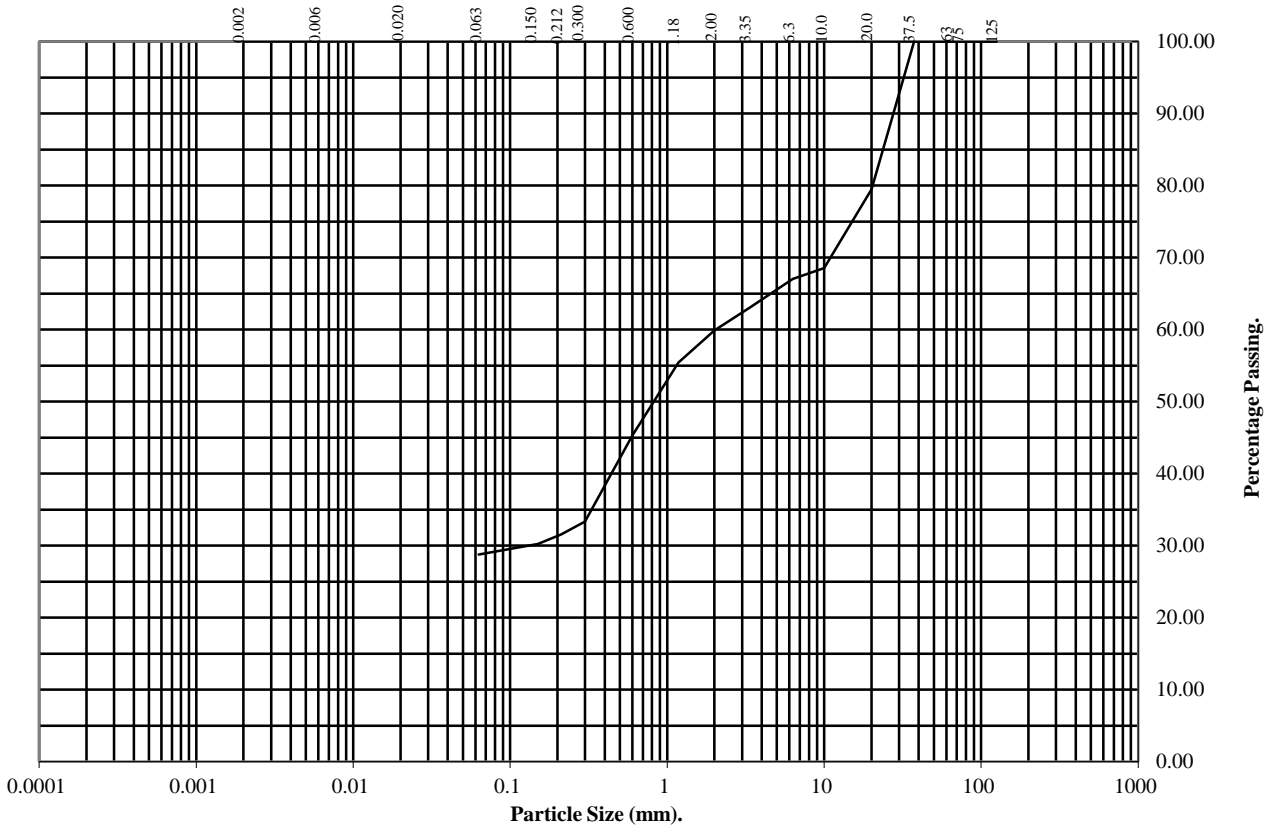
Wet Sieve, Clause 9.2

Hole Number: **BH103**

Depth (m): **0.50-1.00**

Sample Number:

Sample Type: **B**



BS Test Sieve	Percentage Passing
125	100
75	100
63	100
37.5	100
20	79
10	69
6.3	67
3.35	63
2	60
1.18	55
0.6	45
0.3	33
0.212	32
0.15	30
0.063	29

Soil Fraction	Total Percentage
Cobbles	0
Gravel	40
Sand	31
Silt / Clay	29

**Remarks:**  
See summary of soil descriptions.

Checked By	Date	Approved By	Date
	29/09/15		29/09/15

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# Particle Size Distribution Test

BS1377 : Part 2 : 1990

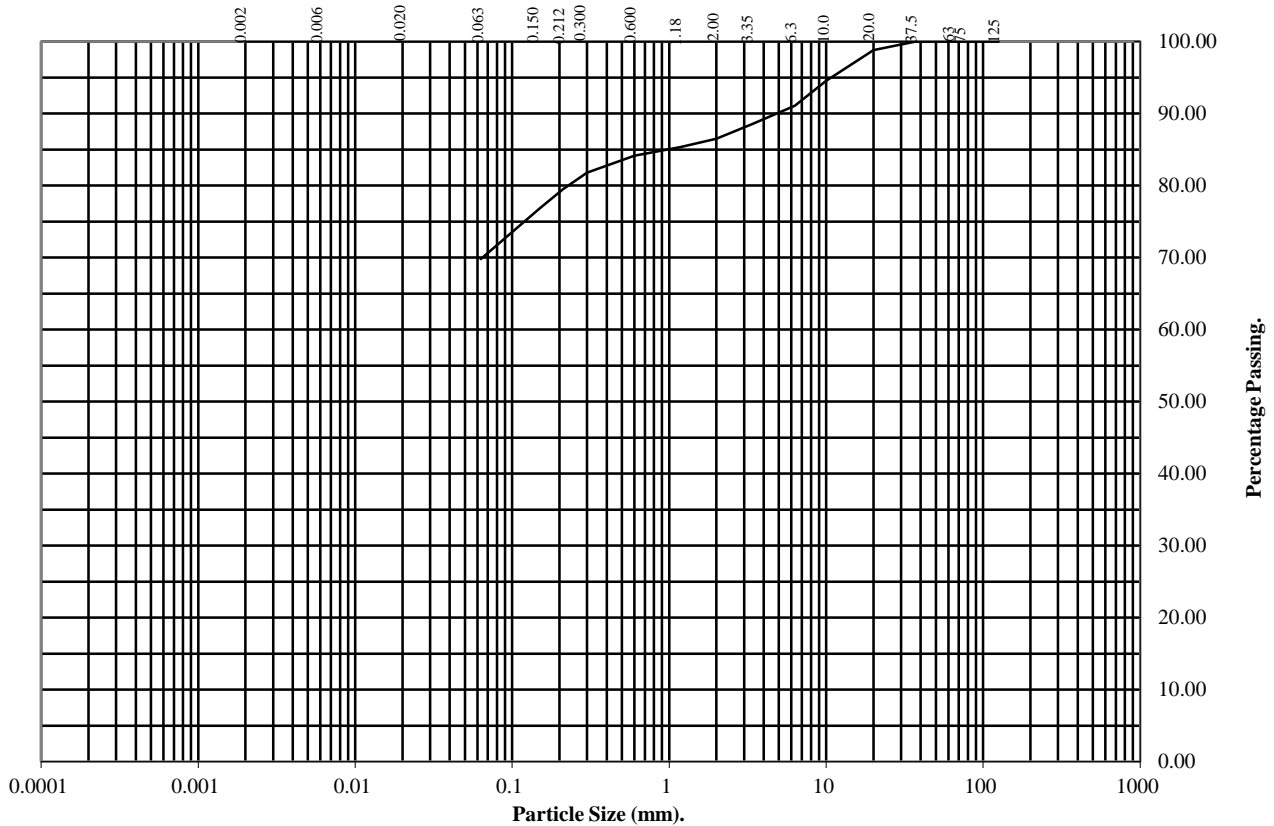
Wet Sieve, Clause 9.2

Hole Number: BH103

Depth (m): 3.50-4.00

Sample Number:

Sample Type: B



BS Test Sieve	Percentage Passing
125	100
75	100
63	100
37.5	100
20	99
10	95
6.3	91
3.35	89
2	87
1.18	85
0.6	84
0.3	82
0.212	80
0.15	77
0.063	70

Soil Fraction	Total Percentage
Cobbles	0
Gravel	13
Sand	17
Silt / Clay	70

**Remarks:**  
See summary of soil descriptions.

Checked By	Date	Approved By	Date
	29/09/15		29/09/15

 <b>Professional Soils Laboratory</b>	<b>SHELTON ROAD, CORBY.</b>	<b>Contract No.:</b> <b>PSL15/4533</b>
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# Particle Size Distribution Test

BS1377 : Part 2 : 1990

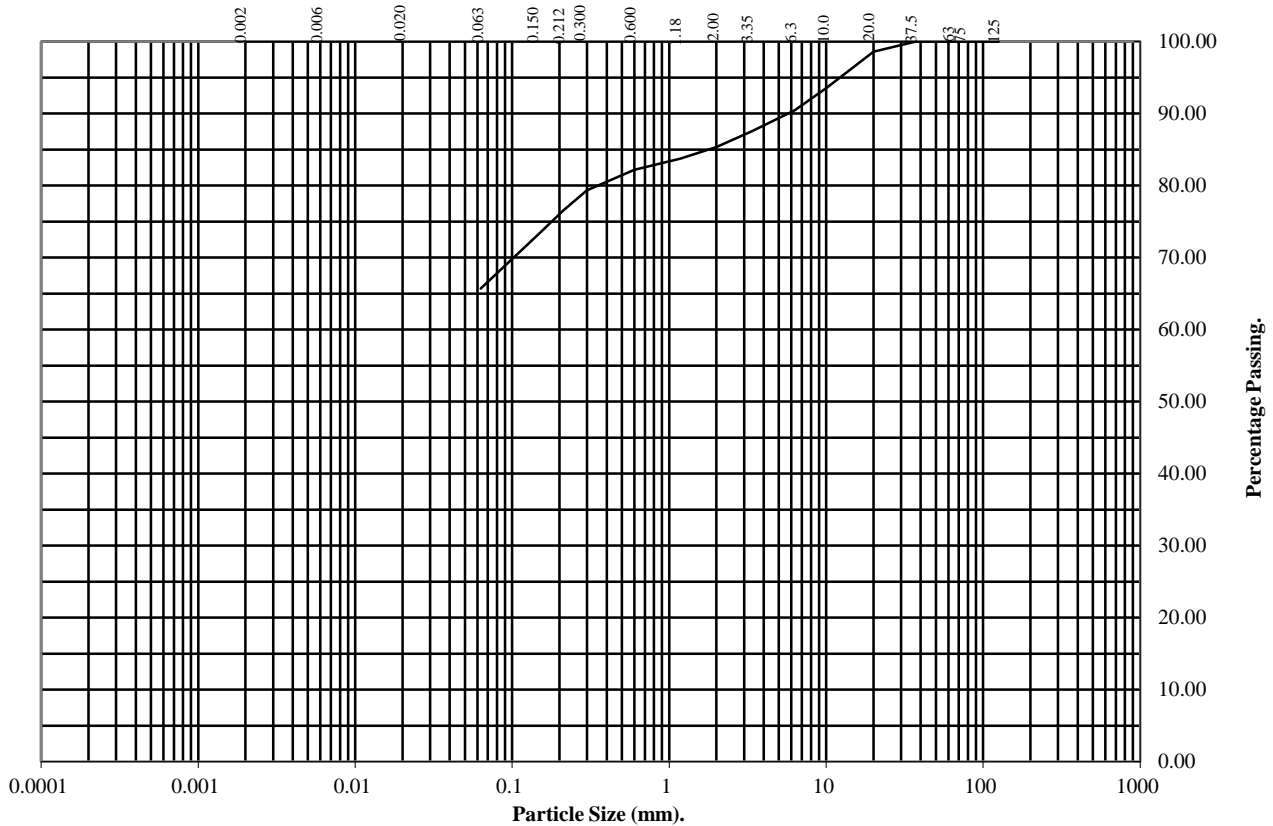
Wet Sieve, Clause 9.2

Hole Number: **BH104**

Depth (m): **10.50-11.00**

Sample Number:

Sample Type: **B**



BS Test Sieve	Percentage Passing
125	100
75	100
63	100
37.5	100
20	99
10	94
6.3	90
3.35	88
2	85
1.18	84
0.6	82
0.3	79
0.212	77
0.15	73
0.063	66

Soil Fraction	Total Percentage
Cobbles	0
Gravel	15
Sand	19
Silt / Clay	66

**Remarks:**  
See summary of soil descriptions.

Checked By	Date	Approved By	Date
	29/09/15		29/09/15

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Contract No.:  
PSL15/4533

# Particle Size Distribution Test

BS1377 : Part 2 : 1990

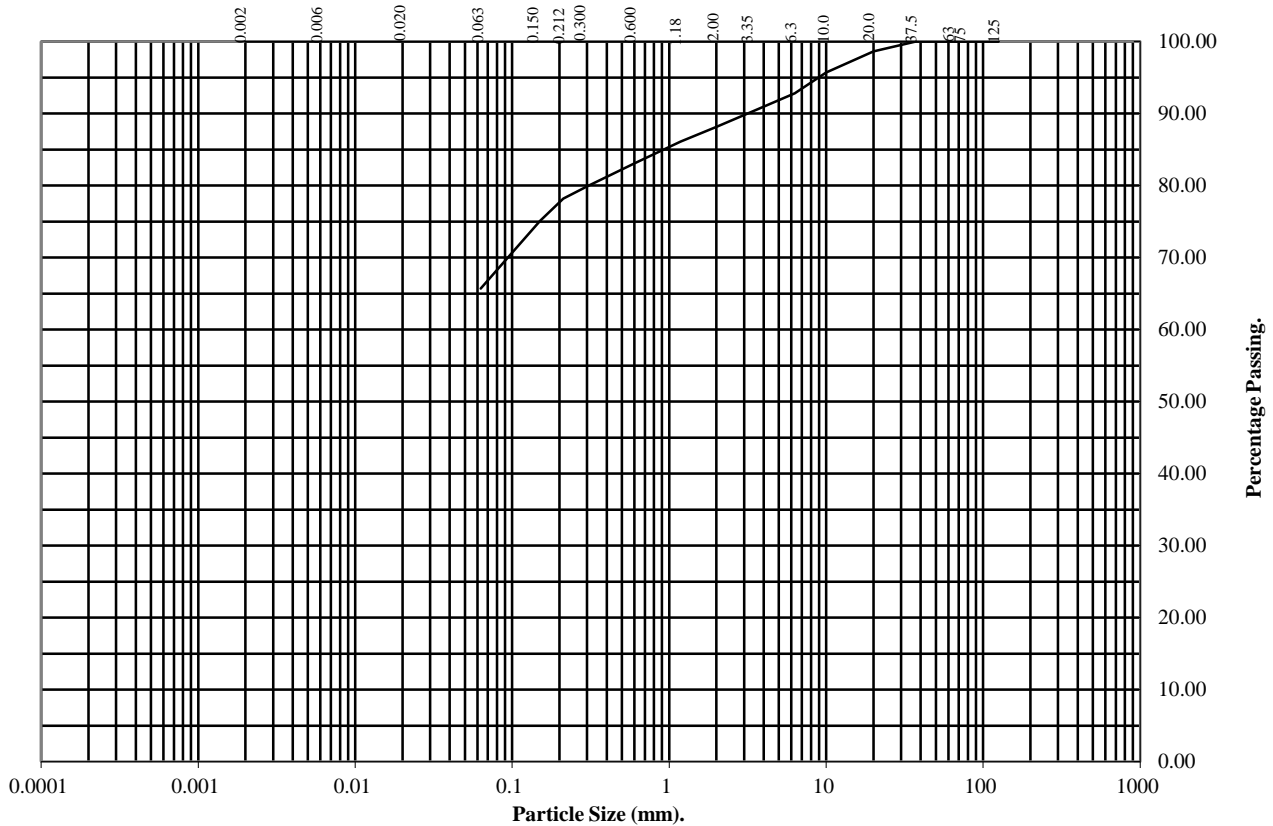
Wet Sieve, Clause 9.2

Hole Number: **BH106**

Depth (m): **1.00-1.50**

Sample Number:

Sample Type: **B**



BS Test Sieve	Percentage Passing
125	100
75	100
63	100
37.5	100
20	99
10	96
6.3	93
3.35	90
2	88
1.18	86
0.6	83
0.3	80
0.212	78
0.15	75
0.063	66

Soil Fraction	Total Percentage
Cobbles	0
Gravel	12
Sand	22
Silt / Clay	66

**Remarks:**  
See summary of soil descriptions.

Checked By	Date	Approved By	Date
	29/09/15		29/09/15

 <b>Professional Soils Laboratory</b>	<b>SHELTON ROAD, CORBY.</b>	<b>Contract No.:</b> <b>PSL15/4533</b>
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# Particle Size Distribution Test

BS1377 : Part 2 : 1990

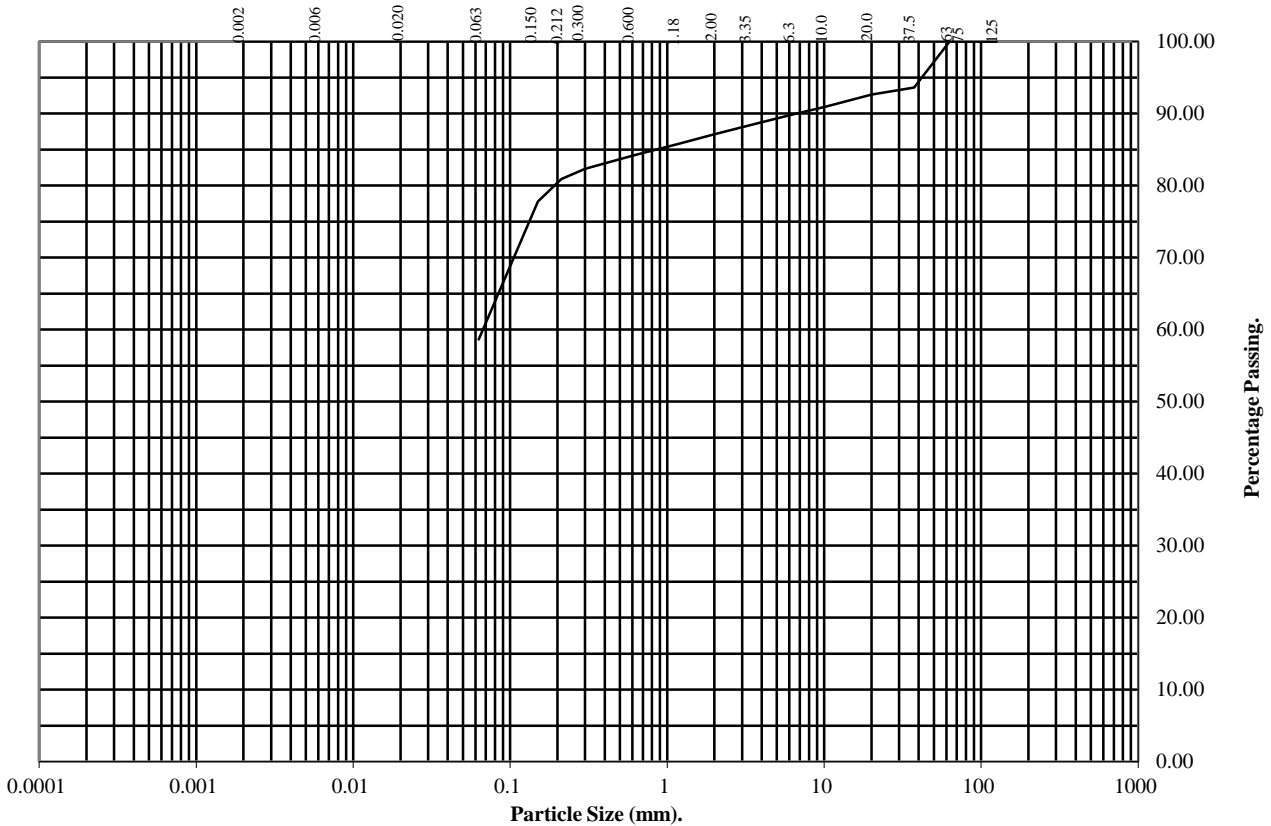
Wet Sieve, Clause 9.2

Hole Number: **BH106**

Depth (m): **4.50-5.00**

Sample Number:

Sample Type: **B**



BS Test Sieve	Percentage Passing
125	100
75	100
63	100
37.5	94
20	93
10	91
6.3	90
3.35	88
2	87
1.18	86
0.6	84
0.3	82
0.212	81
0.15	78
0.063	59

Soil Fraction	Total Percentage
Cobbles	0
Gravel	13
Sand	28
Silt / Clay	59

**Remarks:**  
See summary of soil descriptions.

Checked By	Date	Approved By	Date
	29/09/15		29/09/15

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Contract No.:  
PSL15/4533

# Particle Size Distribution Test

BS1377 : Part 2 : 1990

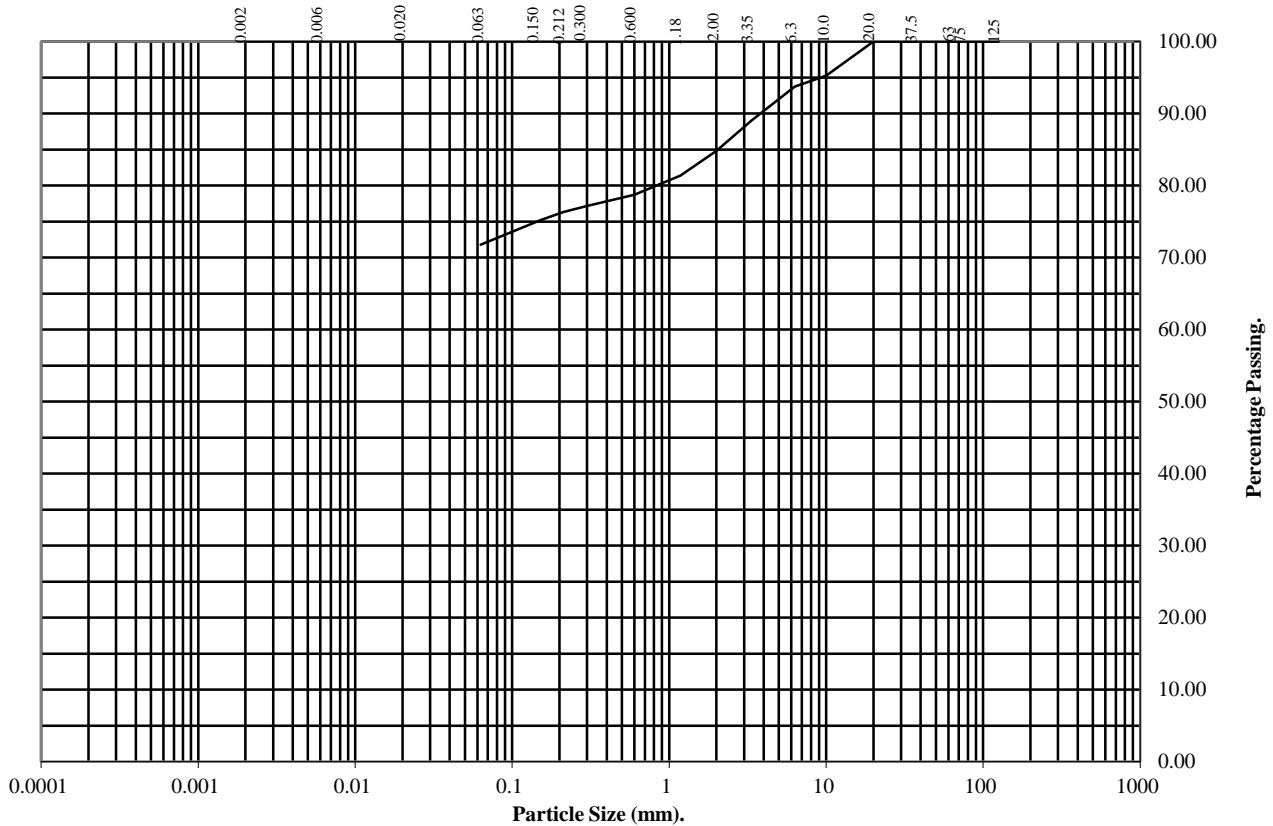
Wet Sieve, Clause 9.2

Hole Number: **BH106**

Depth (m): **11.50**

Sample Number:

Sample Type: **D**



BS Test Sieve	Percentage Passing
125	100
75	100
63	100
37.5	100
20	100
10	95
6.3	94
3.35	89
2	85
1.18	81
0.6	79
0.3	77
0.212	76
0.15	75
0.063	72

Soil Fraction	Total Percentage
Cobbles	0
Gravel	15
Sand	13
Silt / Clay	72

**Remarks:**  
See summary of soil descriptions.

Checked By	Date	Approved By	Date
	29/09/15		29/09/15

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Contract No.:  
PSL15/4533

# Particle Size Distribution Test

BS1377 : Part 2 : 1990

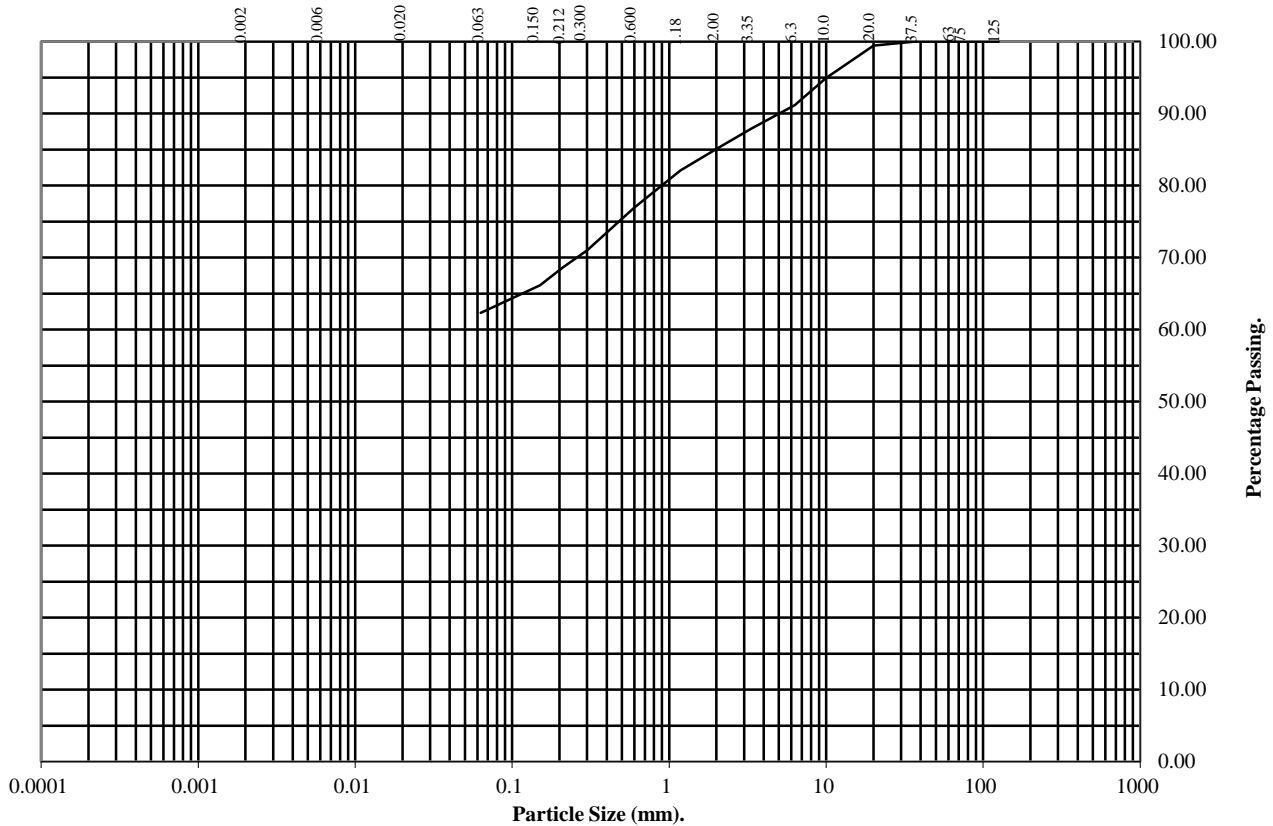
Wet Sieve, Clause 9.2

Hole Number: **BH107**

Depth (m): **1.00-1.50**

Sample Number:

Sample Type: **B**



BS Test Sieve	Percentage Passing
125	100
75	100
63	100
37.5	100
20	99
10	95
6.3	91
3.35	88
2	85
1.18	82
0.6	77
0.3	71
0.212	69
0.15	66
0.063	62

Soil Fraction	Total Percentage
Cobbles	0
Gravel	15
Sand	23
Silt / Clay	62

**Remarks:**  
See summary of soil descriptions.

Checked By	Date	Approved By	Date
	29/09/15		29/09/15

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Contract No.:  
PSL15/4533



# Particle Size Distribution Test

BS1377 : Part 2 : 1990

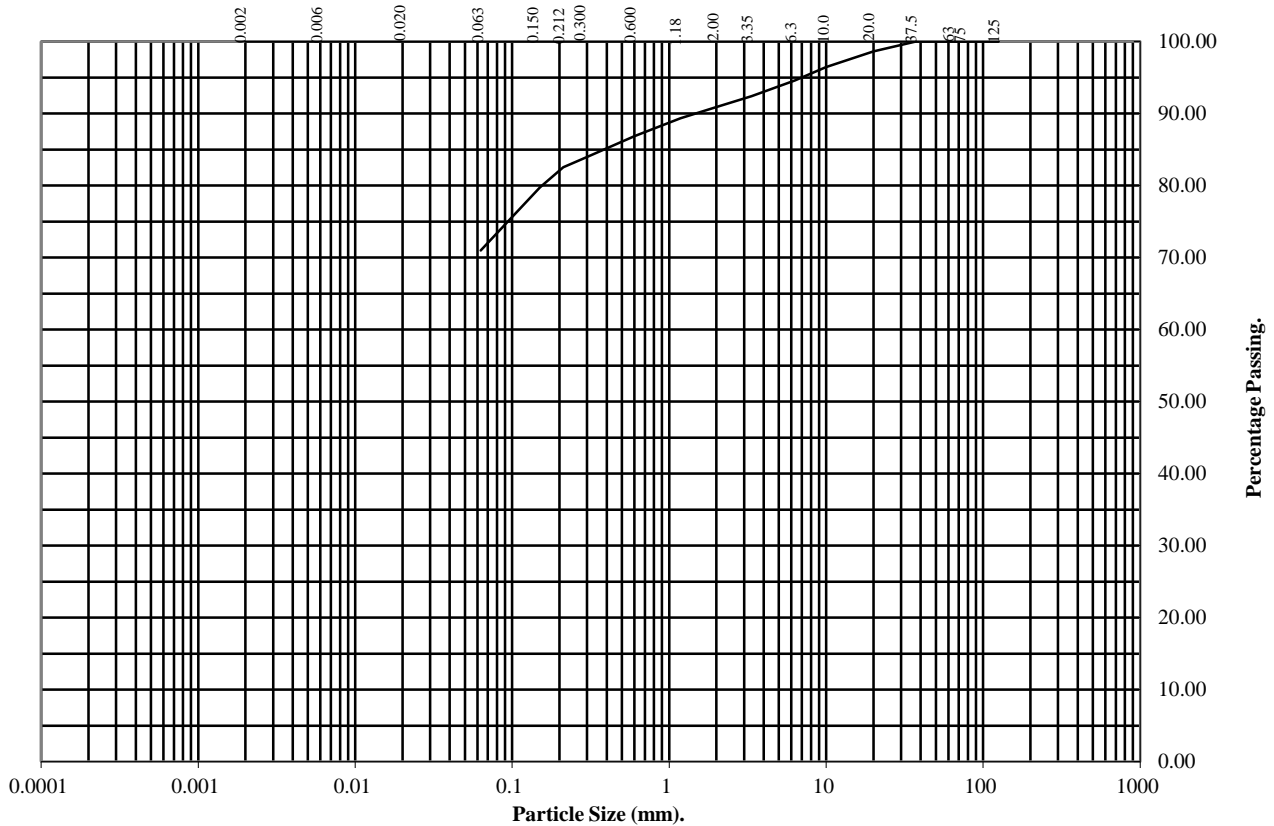
Wet Sieve, Clause 9.2

Hole Number: **BH107**

Depth (m): **12.50-13.00**

Sample Number:

Sample Type: **B**



BS Test Sieve	Percentage Passing
125	100
75	100
63	100
37.5	100
20	99
10	96
6.3	95
3.35	92
2	91
1.18	89
0.6	87
0.3	84
0.212	83
0.15	80
0.063	71

Soil Fraction	Total Percentage
Cobbles	0
Gravel	9
Sand	20
Silt / Clay	71

**Remarks:**  
See summary of soil descriptions.

Checked By	Date	Approved By	Date
	29/09/15		29/09/15

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Contract No.:  
PSL15/4533

# Particle Size Distribution Test

BS1377 : Part 2 : 1990

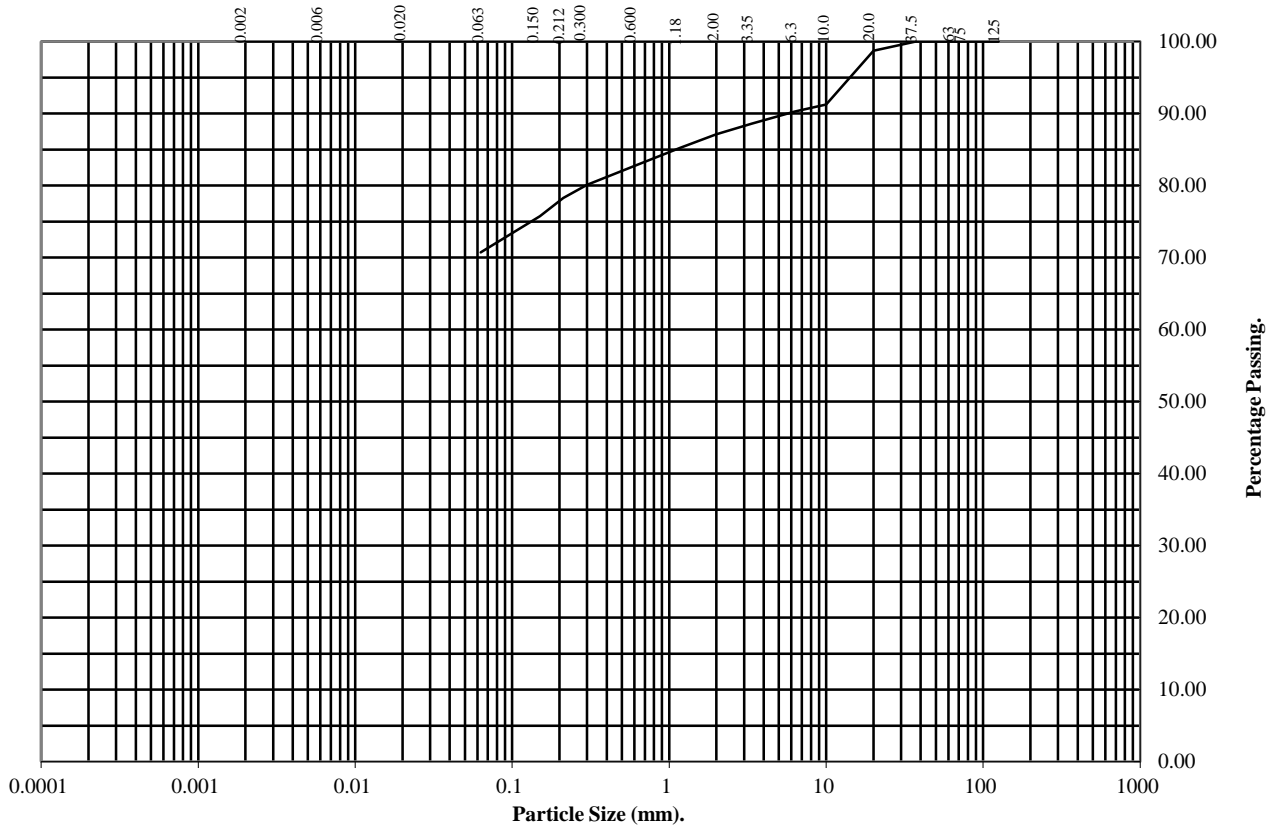
Wet Sieve, Clause 9.2

Hole Number: **BH108**

Depth (m): **4.50-5.00**

Sample Number:

Sample Type: **B**



BS Test Sieve	Percentage Passing
125	100
75	100
63	100
37.5	100
20	99
10	91
6.3	90
3.35	89
2	87
1.18	85
0.6	83
0.3	80
0.212	78
0.15	76
0.063	71

Soil Fraction	Total Percentage
Cobbles	0
Gravel	13
Sand	16
Silt / Clay	71

**Remarks:**  
See summary of soil descriptions.

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	29/09/15		29/09/15

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Contract No.:  
PSL15/4533

# Particle Size Distribution Test

BS1377 : Part 2 : 1990

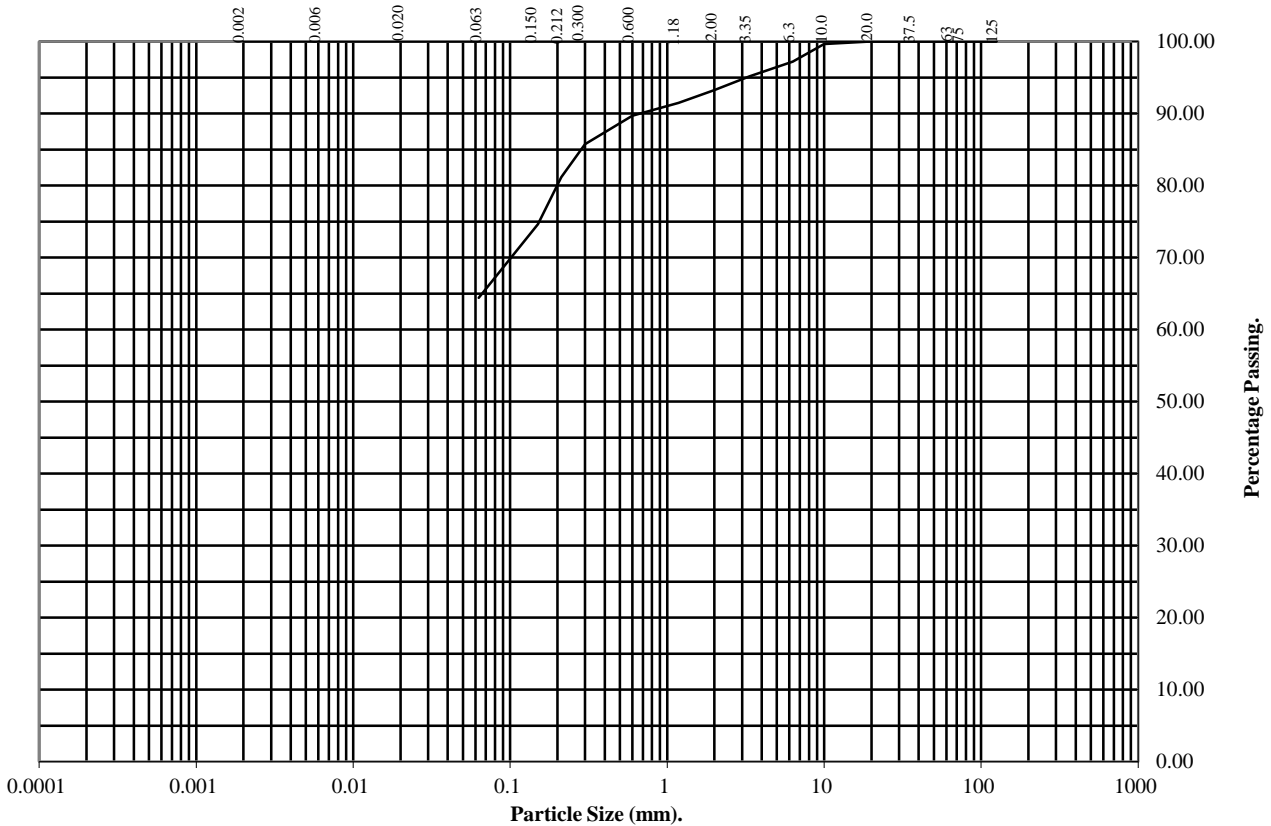
Wet Sieve, Clause 9.2

Hole Number: **BH108**

Depth (m): **8.00-8.50**

Sample Number:

Sample Type: **B**



BS Test Sieve	Percentage Passing
125	100
75	100
63	100
37.5	100
20	100
10	100
6.3	97
3.35	95
2	93
1.18	91
0.6	90
0.3	86
0.212	81
0.15	75
0.063	64

Soil Fraction	Total Percentage
Cobbles	0
Gravel	7
Sand	29
Silt / Clay	64

**Remarks:**  
See summary of soil descriptions.

Checked By	Date	Approved By	Date
	29/09/15		29/09/15

 <b>Professional Soils Laboratory</b>	<b>SHELTON ROAD, CORBY.</b>	<b>Contract No.:</b> <b>PSL15/4533</b>
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# Particle Size Distribution Test

BS1377 : Part 2 : 1990

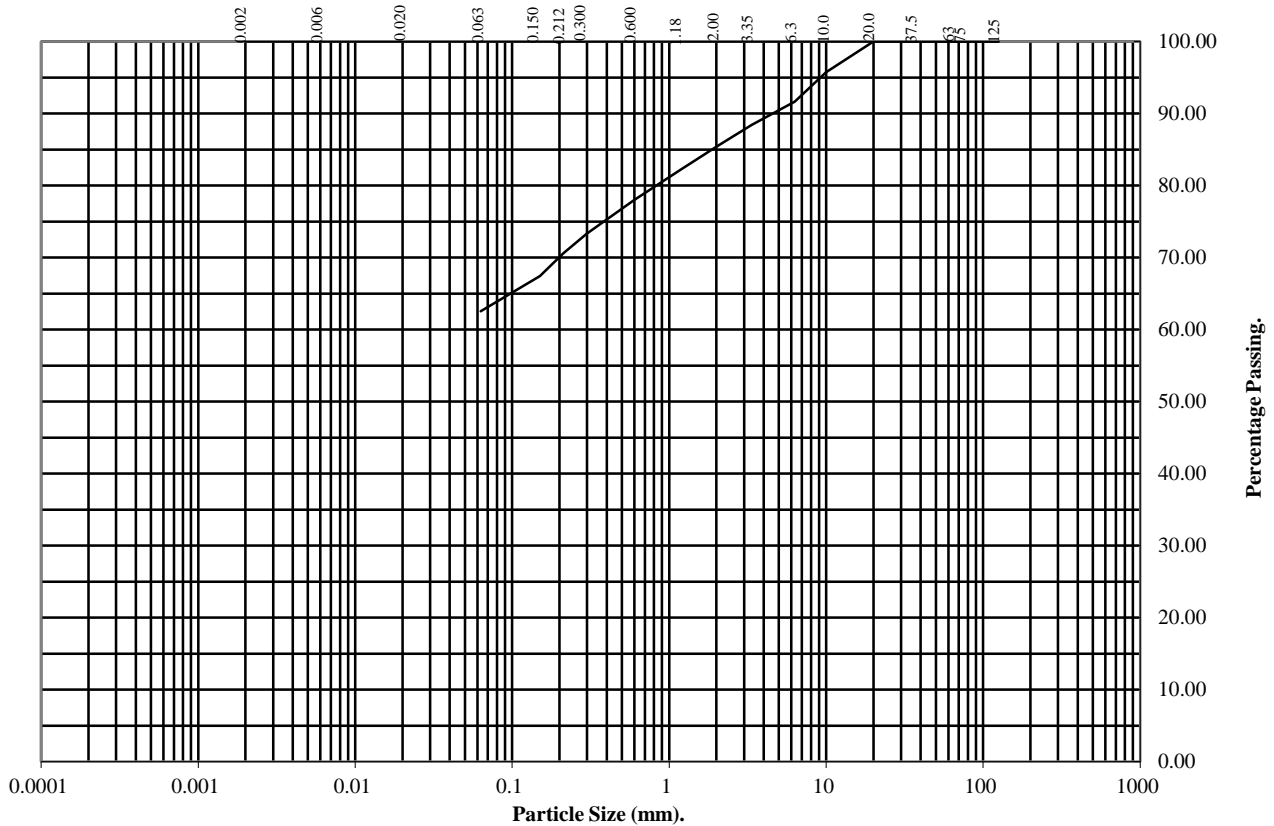
Wet Sieve, Clause 9.2

Hole Number: **BH109**

Depth (m): **3.50-4.00**

Sample Number:

Sample Type: **B**



BS Test Sieve	Percentage Passing
125	100
75	100
63	100
37.5	100
20	100
10	96
6.3	92
3.35	88
2	85
1.18	82
0.6	78
0.3	73
0.212	71
0.15	67
0.063	63

Soil Fraction	Total Percentage
Cobbles	0
Gravel	15
Sand	22
Silt / Clay	63

**Remarks:**  
See summary of soil descriptions.

Checked By	Date	Approved By	Date
	29/09/15		29/09/15

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Contract No.:  
PSL15/4533

# One Dimensional Consolidation Properties

BS 1377: Part 5: 1990

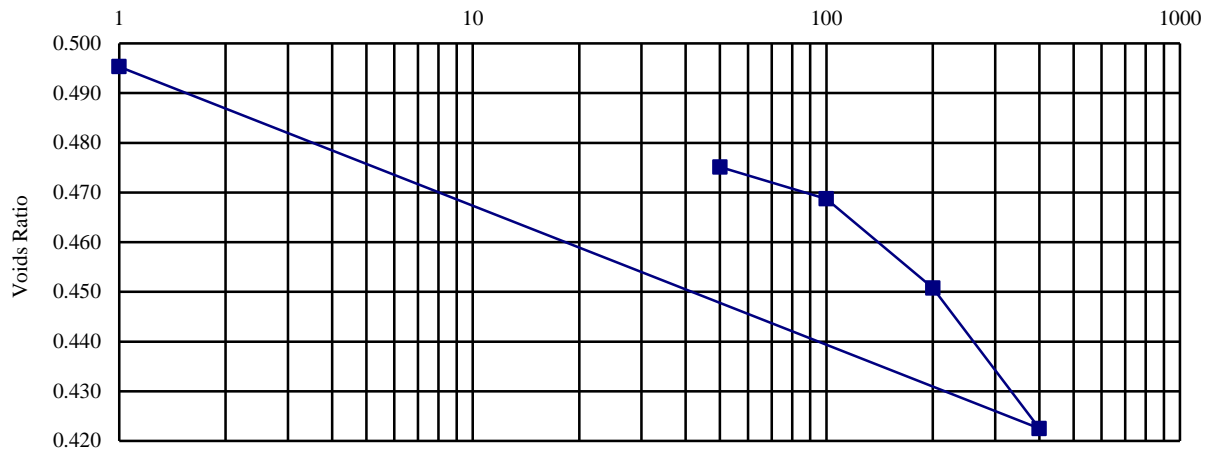
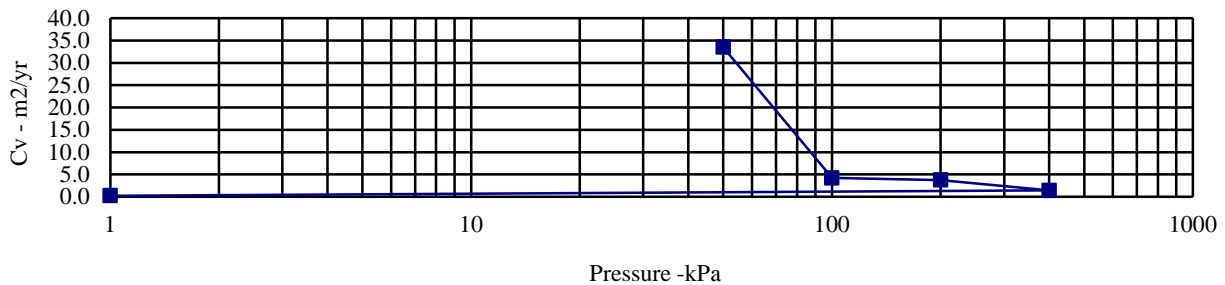
Hole Number: **BH105**

Depth (m): **3.50-3.95**

Sample Number:

Sample Type: **U**

Initial Conditions		Pressure Range			Mv	Cv	Specimen location	
		kPa			m2/MN	m2/yr	within tube:	Top
Moisture Content (%):	20							
Bulk Density (Mg/m3):	2.09	0	-	50	0.561	33.480	Method used to	
Dry Density (Mg/m3):	1.75	50	-	100	0.087	4.202	determine CV:	t90
Voids Ratio:	0.518	100	-	200	0.122	3.748	Nominal temperature	
Degree of saturation:	99.9	200	-	400	0.097	1.399	during test 'C:	20
Height (mm):	20.13	400	-	1	0.128	0.245	Remarks:	
Diameter (mm)	75.08						See summary of soil descriptions.	
Particle Density (Mg/m3):	2.65							
Assumed								



Checked by	Date	Approved by	Date
	29/09/15		29/09/15



**SHELTON ROAD, CORBY.**

Contract No.  
**PSL15/4533**  
Page of

# One Dimensional Consolidation Properties

BS 1377: Part 5: 1990

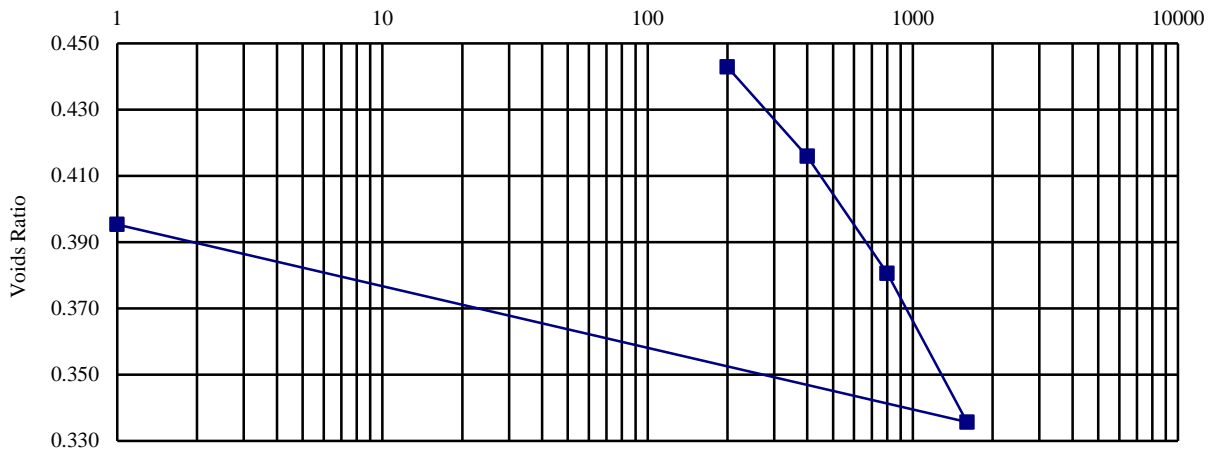
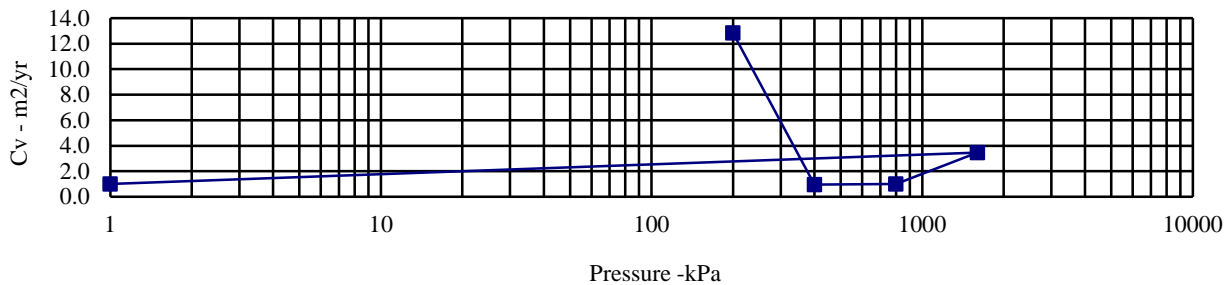
Hole Number: **BH105**

Depth (m): **12.00-12.45**

Sample Number:

Sample Type: **U**

Initial Conditions		Pressure Range		Mv	Cv	Specimen location	
Moisture Content (%):	22	kPa		m2/MN	m2/yr	within tube:	Top
Bulk Density (Mg/m3):	2.04	0	- 200	0.466	12.833	Method used to	
Dry Density (Mg/m3):	1.67	200	- 400	0.093	0.952	determine CV:	t90
Voids Ratio:	0.591	400	- 800	0.062	0.997	Nominal temperature	
Degree of saturation:	99.8	800	- 1600	0.041	3.452	during test ' C:	20
Height (mm):	20.19	1600	- 1	0.028	0.992	Remarks:	
Diameter (mm)	75.02	See summary of soil descriptions.					
Particle Density (Mg/m3):	2.65						
Assumed							



Checked by	Date	Approved by	Date
	29/09/15		29/09/15



**SHELTON ROAD, CORBY.**

Contract No.

**PSL15/4533**

Page of

# One Dimensional Consolidation Properties

BS 1377: Part 5: 1990

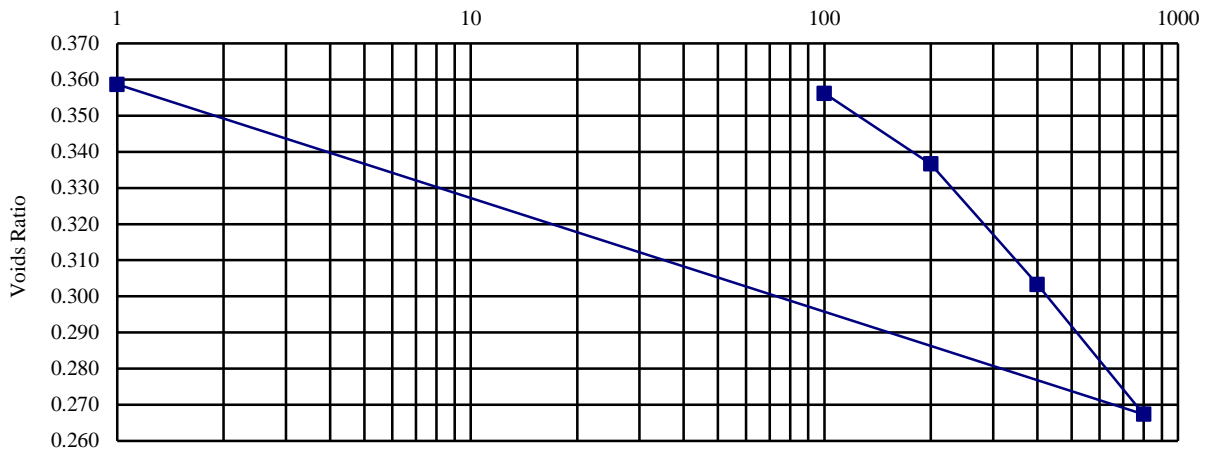
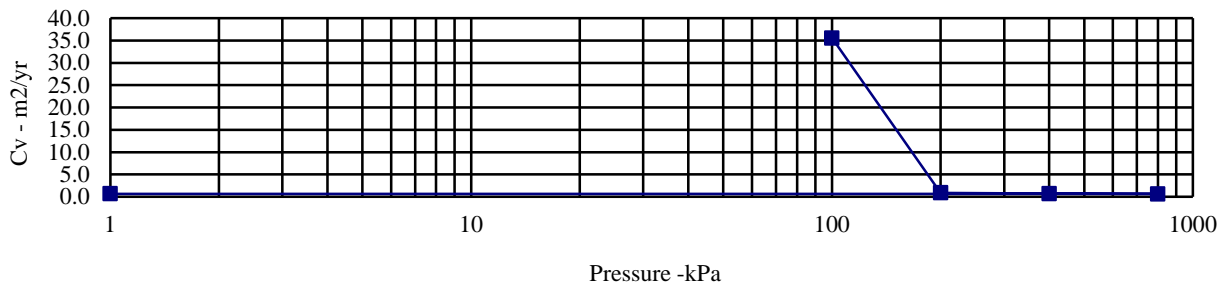
Hole Number: **BH106**

Depth (m): **7.50-7.95**

Sample Number:

Sample Type: **U**

Initial Conditions		Pressure Range			Mv	Cv	Specimen location		
		kPa			m2/MN	m2/yr	within tube:	Top	
Moisture Content (%):	17								
Bulk Density (Mg/m3):	2.13	0	-	100	0.708	35.538	Method used to		
Dry Density (Mg/m3):	1.82	100	-	200	0.144	0.877	determine CV:	t90	
Voids Ratio:	0.459	200	-	400	0.125	0.693	Nominal temperature		
Degree of saturation:	100.2	400	-	800	0.069	0.641	during test ' C:	20	
Height (mm):	20.09	800	-	1	0.090	0.674	Remarks:		
Diameter (mm)	75.08							See summary of soil descriptions.	
Particle Density (Mg/m3):	2.65								
Assumed									



Checked by	Date	Approved by	Date
	29/09/15		29/09/15



**SHELTON ROAD, CORBY.**

Contract No.

**PSL15/4533**

Page of

# One Dimensional Consolidation Properties

BS 1377: Part 5: 1990

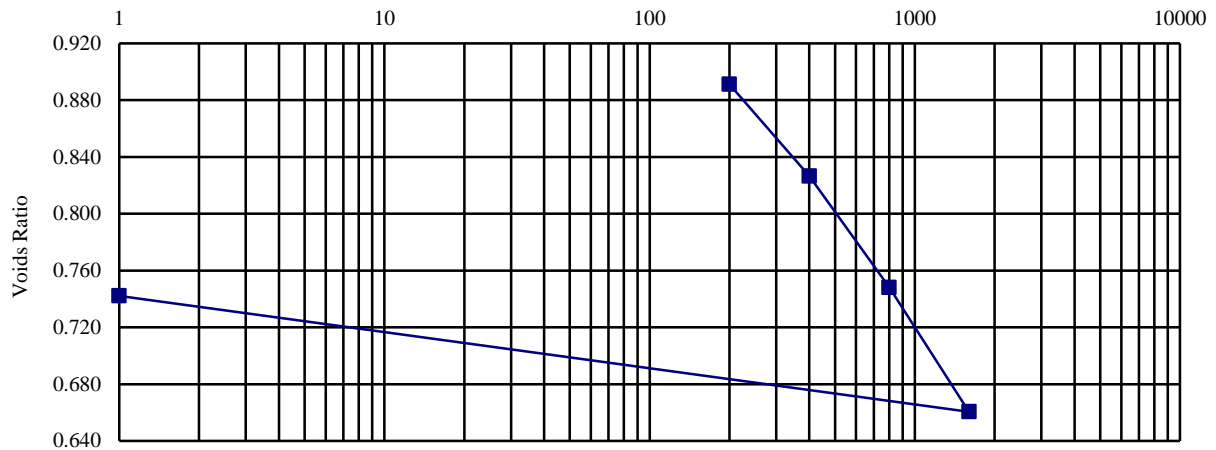
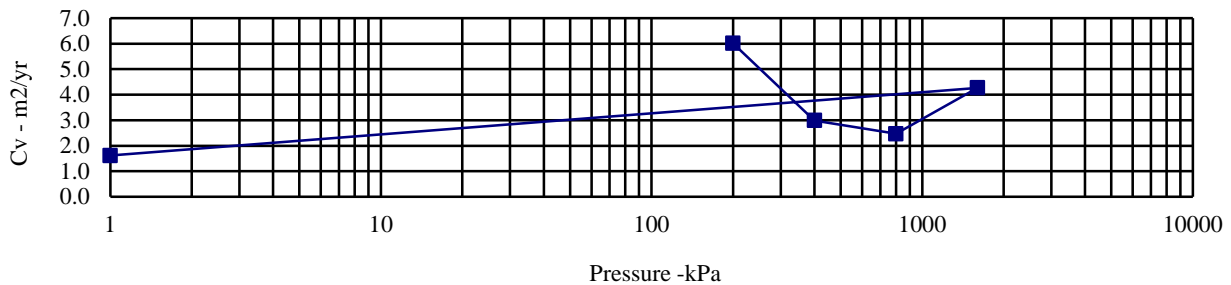
Hole Number: **BH106**

Depth (m): **13.50-13.95**

Sample Number:

Sample Type: **U**

Initial Conditions		Pressure Range		Mv	Cv	Specimen location	
Moisture Content (%):	56	kPa		m2/MN	m2/yr	within tube:	Top
Bulk Density (Mg/m3):	1.75	0	-	200	0.824	6.015	Method used to
Dry Density (Mg/m3):	1.13	200	-	400	0.171	2.992	determine CV:
Voids Ratio:	1.264	400	-	800	0.107	2.466	Nominal temperature
Degree of saturation:	112.1	800	-	1600	0.063	4.268	during test ' C:
Height (mm):	20.13	1600	-	1	0.031	1.618	20
Diameter (mm)	75.08	Remarks: See summary of soil descriptions.					
Particle Density (Mg/m3):	2.55						
Assumed							



Checked by	Date	Approved by	Date
	29/09/15		29/09/15



**SHELTON ROAD, CORBY.**

Contract No.  
**PSL15/4533**  
Page of



# Undrained Shear Strength in Triaxial Compression

without measurement of Pore Pressure

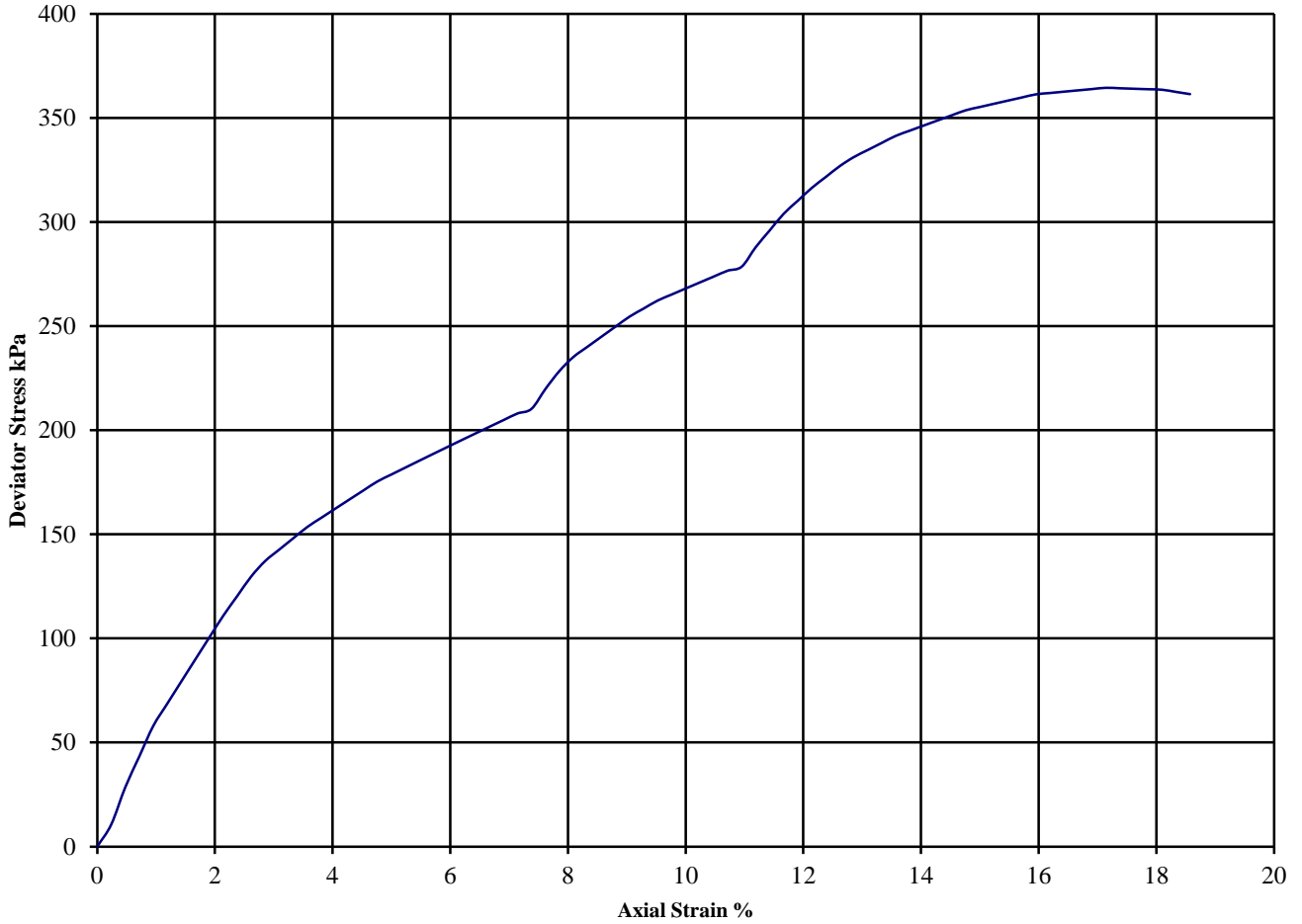
B.S. 1377 : Part 7 : Clause 9 : 1990

Hole Number: BH101

Depth (m): 2.50

Sample Number:

Sample Type: U



Diameter (mm):		102	Height (mm):		210	Test:		100mm Multistage				
Specimen	Moisture Content (%)	Bulk Density (Mg/m <sup>3</sup> )	Dry Density (Mg/m <sup>3</sup> )	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)	Mode of Failure	Remarks			
									$\theta_3$	$(\theta_1 - \theta_3)_f$	$\frac{1}{2}(\theta_1 - \theta_3)_f$	
A	21	2.08	1.72	25	210	105	7.4		Sample taken from top of tube Rate of strain = 2 %/min Latex Membrane used 0.2 mm thickness Membrane Correction applied (kPa) 0.36    0.35    0.34			
				50	279	139	11.0		See summary of soil descriptions.			
				100	365	182	17.1	Plastic	Checked	Date	Approved	Date
										29/09/15		29/09/15

	<b>SHELTON ROAD, CORBY.</b>	<b>Contract No:</b> <b>PSL15/4533</b>

# Undrained Shear Strength in Triaxial Compression

without measurement of Pore Pressure

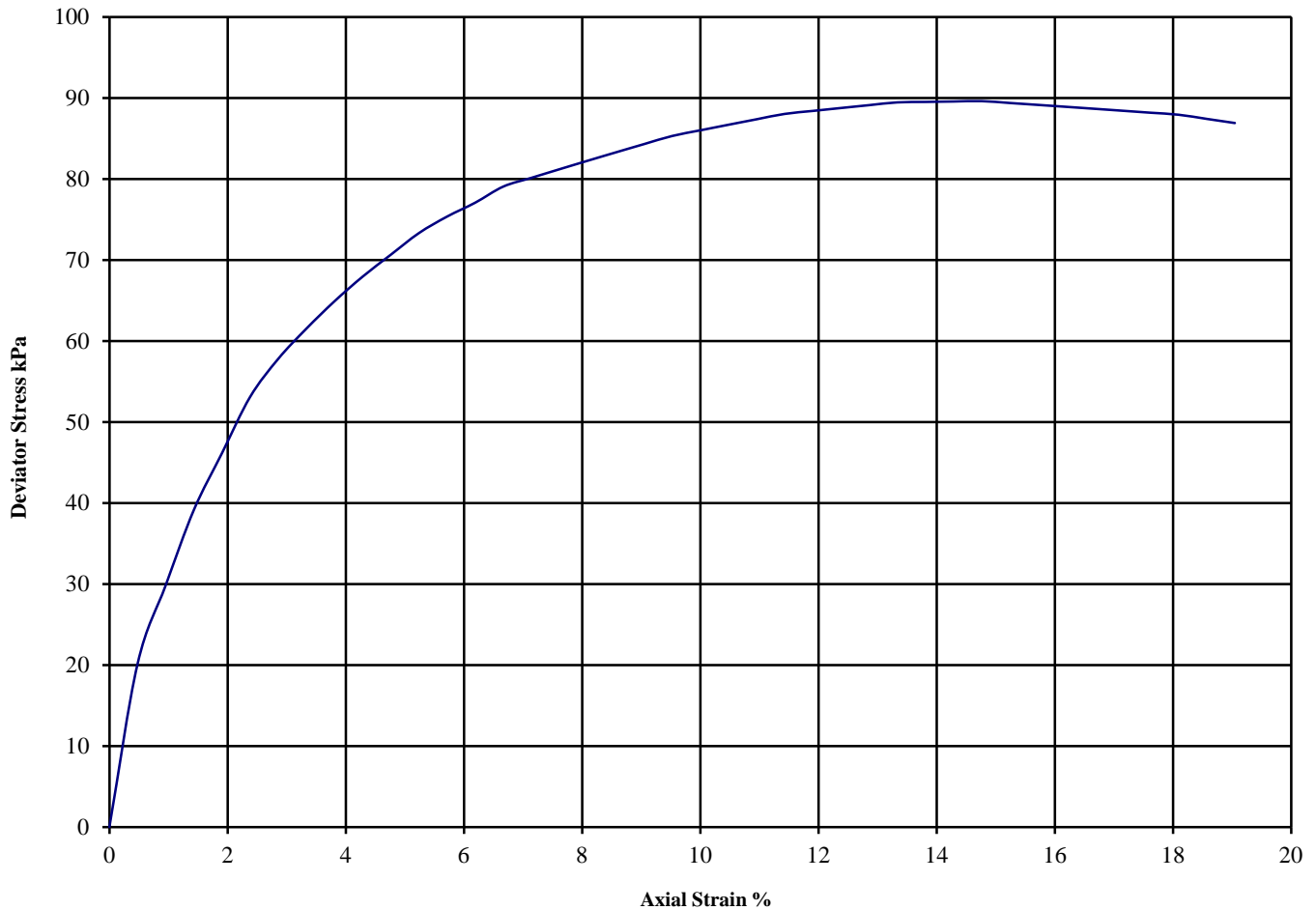
B.S. 1377 : Part 7 : Clause 8 : 1990

Hole Number: BH101

Depth (m): 13.50

Sample Number:

Sample Type: U



Diameter (mm):		102.0	Height (mm):		210.0	Test:	100 mm Single Stage. Undisturbed										
Specimen	Moisture Content (%)	Bulk Density (Mg/m <sup>3</sup> )	Dry Density (Mg/m <sup>3</sup> )	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)	Mode of Failure	Remarks								
				$\theta_3$	$(\theta_1 - \theta_3)_f$	$\frac{1}{2}(\theta_1 - \theta_3)_f$											
A	23	2.09	1.70	270	90	45	14.8	Plastic	Sample taken from top of tube Rate of strain = 2 %/min Latex Membrane used 0.2 mm thickness, Correction applied 0.34 kPa See summary of soil descriptions.								
									<table border="1"> <thead> <tr> <th>Checked</th> <th>Date</th> <th>Approved</th> <th>Date</th> </tr> </thead> <tbody> <tr> <td></td> <td>29/09/15</td> <td></td> <td>29/09/15</td> </tr> </tbody> </table>	Checked	Date	Approved	Date		29/09/15		29/09/15
Checked	Date	Approved	Date														
	29/09/15		29/09/15														
				<b>SHELTON ROAD, CORBY.</b>				<b>Contract No: PSL15/4533</b>									

# Undrained Shear Strength in Triaxial Compression

without measurement of Pore Pressure

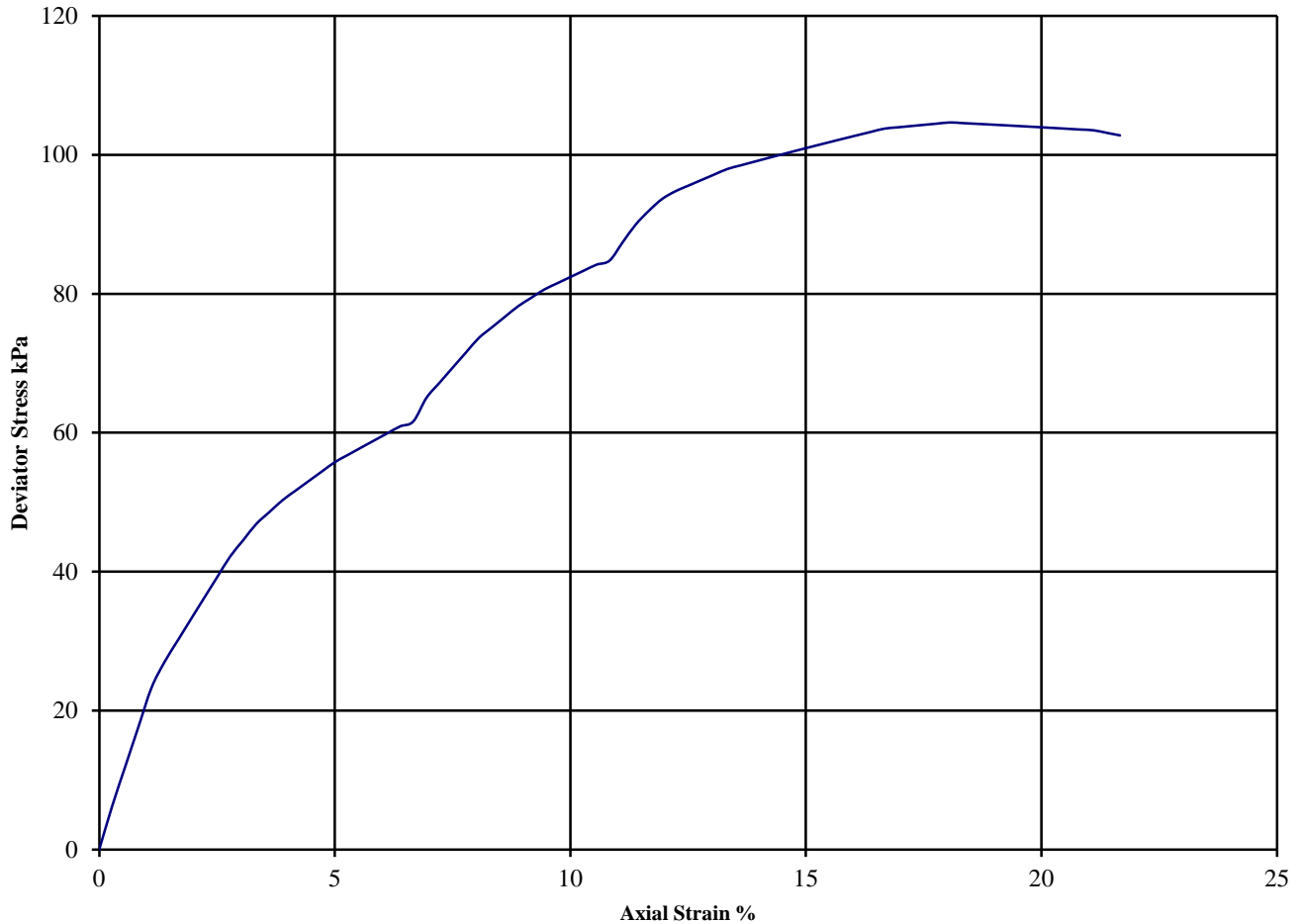
B.S. 1377 : Part 7 : Clause 9 : 1990

Hole Number: BH103

Depth (m): 4.50

Sample Number:

Sample Type: U



Diameter (mm):		102		Height (mm):		180		Test:		100mm Multistage		
Specimen	Moisture Content (%)	Bulk Density (Mg/m <sup>3</sup> )	Dry Density (Mg/m <sup>3</sup> )	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)	Mode of Failure	Remarks			
									$\theta_3$	$(\theta_1 - \theta_3)_f$	$\frac{1}{2}(\theta_1 - \theta_3)_f$	
A	16	2.13	1.83	45	62	31	6.7		Sample taken from top of tube Rate of strain = 2 %/min Latex Membrane used 0.2 mm thickness Membrane Correction applied (kPa) 0.36    0.35    0.34			
				90	85	42	10.8		See summary of soil descriptions.			
				180	105	52	18.1	Plastic	Checked	Date	Approved	Date
										29/09/15		29/09/15

**PSL**  
Professional Soils Laboratory

SHELTON ROAD, CORBY.

Contract No:  
PSL15/4533

# Undrained Shear Strength in Triaxial Compression

without measurement of Pore Pressure

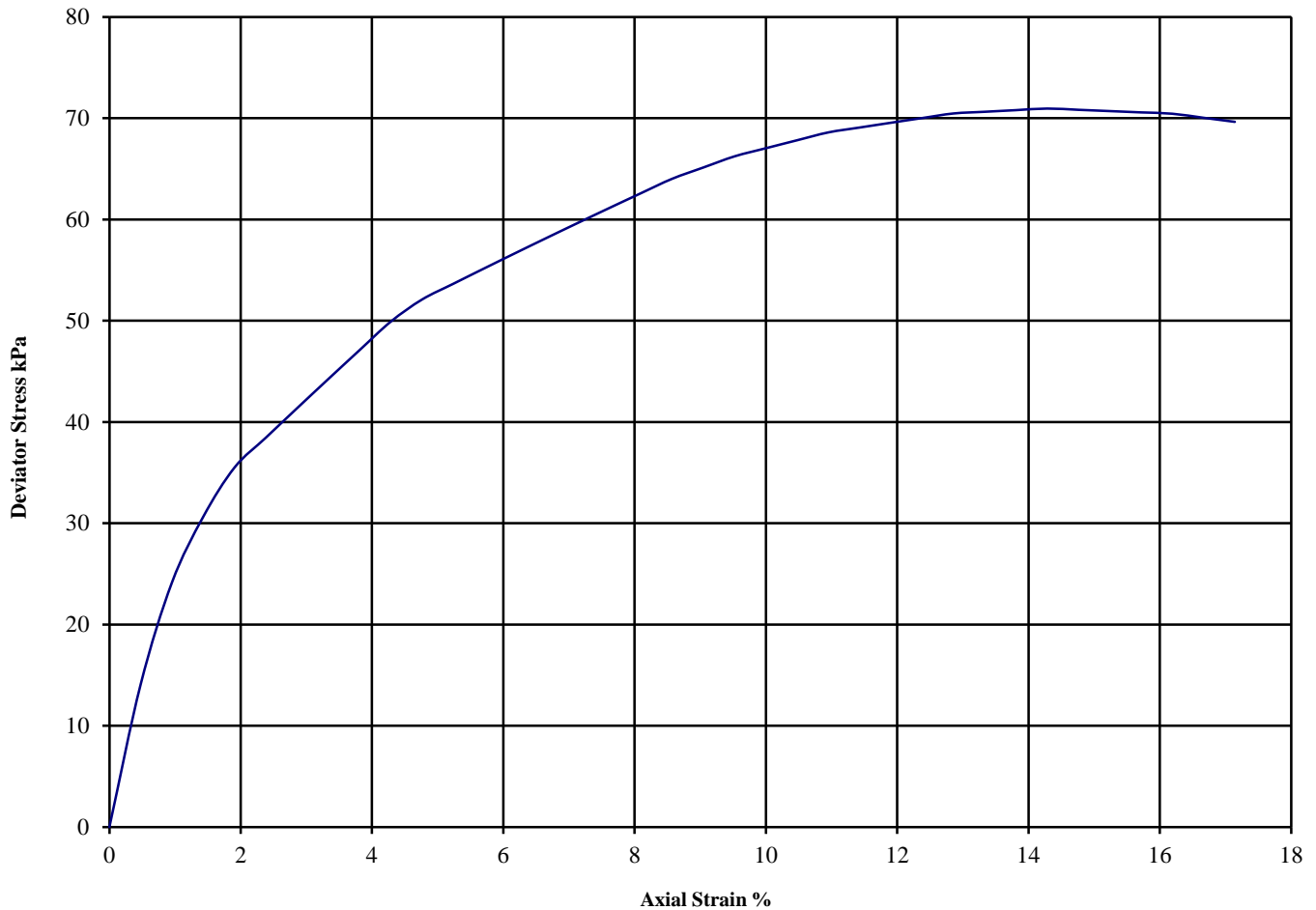
B.S. 1377 : Part 7 : Clause 8 : 1990

Hole Number: BH103

Depth (m): 16.50

Sample Number:

Sample Type: U



Diameter (mm):		102.0	Height (mm):		210.0	Test:	100 mm Single Stage. Undisturbed										
Specimen	Moisture Content (%)	Bulk Density (Mg/m <sup>3</sup> )	Dry Density (Mg/m <sup>3</sup> )	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)	Mode of Failure	Remarks								
A	25	2.00	1.60	330	71	35	14.3	Plastic	Sample taken from top of tube Rate of strain = 2 %/min Latex Membrane used 0.2 mm thickness, Correction applied 0.34 kPa See summary of soil descriptions.								
									<table border="1"> <tr> <th>Checked</th> <th>Date</th> <th>Approved</th> <th>Date</th> </tr> <tr> <td></td> <td>29/09/15</td> <td></td> <td>29/09/15</td> </tr> </table>	Checked	Date	Approved	Date		29/09/15		29/09/15
Checked	Date	Approved	Date														
	29/09/15		29/09/15														
<b>PSL</b> Professional Soils Laboratory				SHELTON ROAD, CORBY.					Contract No: PSL15/4533								

# Undrained Shear Strength in Triaxial Compression

without measurement of Pore Pressure

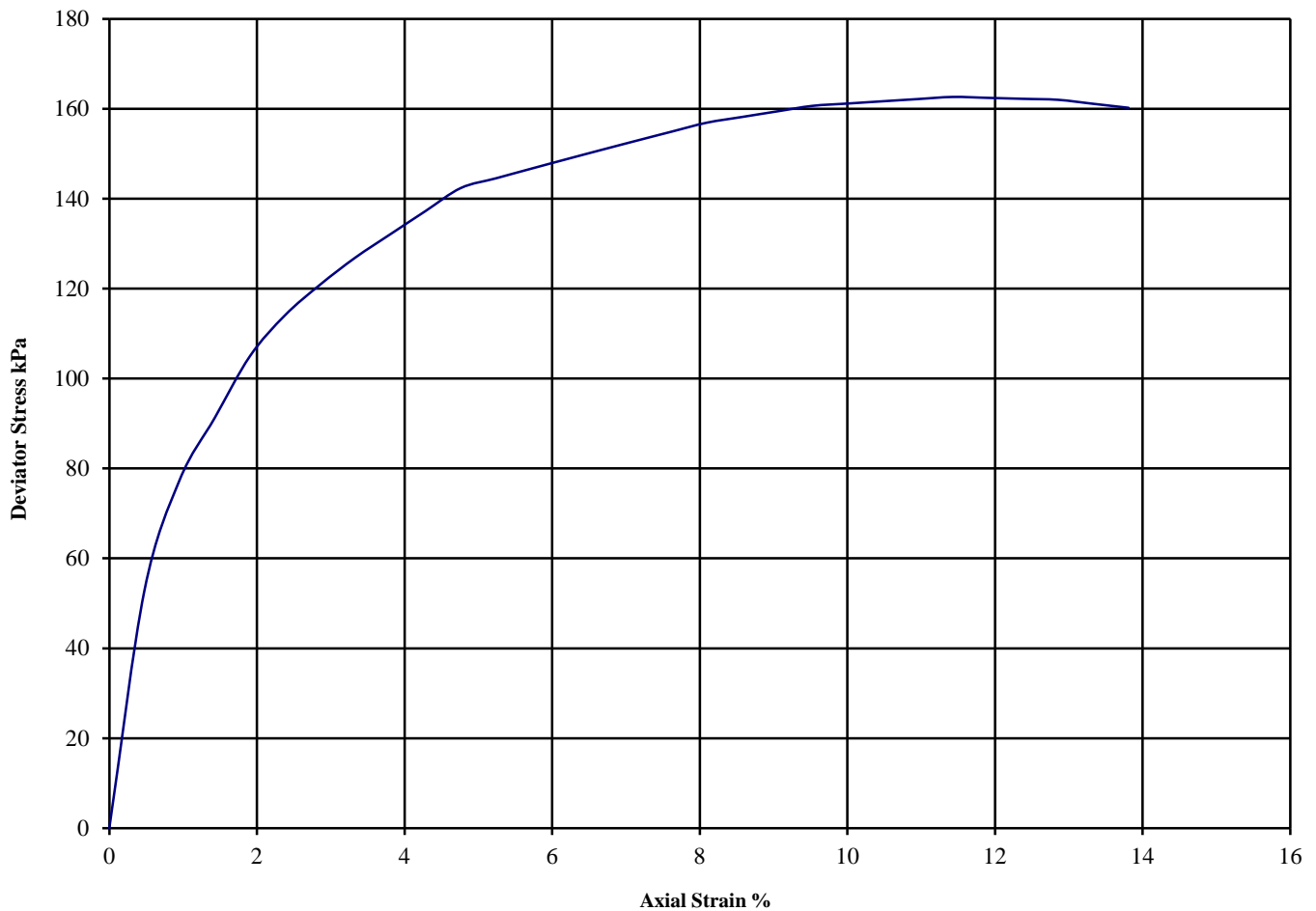
B.S. 1377 : Part 7 : Clause 8 : 1990

Hole Number: BH107

Depth (m): 16.50

Sample Number:

Sample Type: U



Diameter (mm):		102.0	Height (mm):		210.0	Test:	100 mm Single Stage. Undisturbed										
Specimen	Moisture Content (%)	Bulk Density (Mg/m <sup>3</sup> )	Dry Density (Mg/m <sup>3</sup> )	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)	Mode of Failure	Remarks								
A	17	1.98	1.68	330	163	81	11.4	Plastic	Sample taken from top of tube Rate of strain = 2 %/min Latex Membrane used 0.2 mm thickness, Correction applied 0.35 kPa See summary of soil descriptions.								
									<table border="1"> <tr> <th>Checked</th> <th>Date</th> <th>Approved</th> <th>Date</th> </tr> <tr> <td></td> <td>29/09/15</td> <td></td> <td>29/09/15</td> </tr> </table>	Checked	Date	Approved	Date		29/09/15		29/09/15
Checked	Date	Approved	Date														
	29/09/15		29/09/15														
<b>PSL</b> Professional Soils Laboratory				SHELTON ROAD, CORBY.					Contract No: PSL15/4533								

# Undrained Shear Strength in Triaxial Compression

without measurement of Pore Pressure

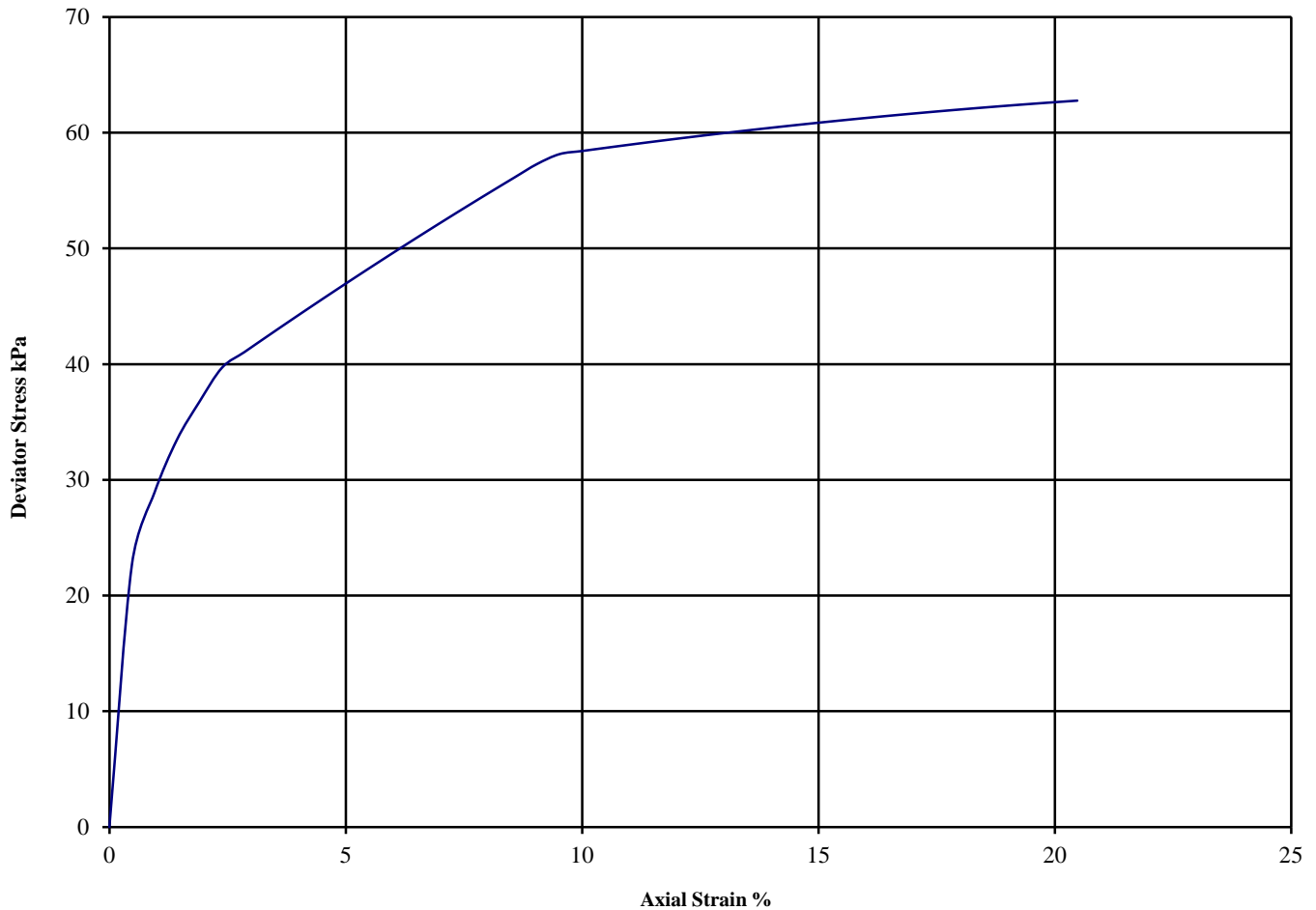
B.S. 1377 : Part 7 : Clause 8 : 1990

Hole Number: BH108

Depth (m): 13.50

Sample Number:

Sample Type: U



Diameter (mm):		102.0	Height (mm):		210.0	Test:	100 mm Single Stage. Undisturbed										
Specimen	Moisture Content (%)	Bulk Density (Mg/m <sup>3</sup> )	Dry Density (Mg/m <sup>3</sup> )	Cell Pressure (kPa)	Corr. Max. Deviator Stress (kPa)	Shear Strength Cu (kPa)	Failure Strain (%)	Mode of Failure	Remarks								
A	21	2.09	1.72	270	63	31	20.5	Plastic	Sample taken from top of tube Rate of strain = 2 %/min Latex Membrane used 0.2 mm thickness, Correction applied 0.33 kPa See summary of soil descriptions.								
									<table border="1"> <tr> <th>Checked</th> <th>Date</th> <th>Approved</th> <th>Date</th> </tr> <tr> <td></td> <td>29/09/15</td> <td></td> <td>29/09/15</td> </tr> </table>	Checked	Date	Approved	Date		29/09/15		29/09/15
Checked	Date	Approved	Date														
	29/09/15		29/09/15														
				SHELTON ROAD, CORBY.				Contract No: PSL15/4533									



5/7 Hexthorpe Road  
Hexthorpe, Doncaster, DN4 0AR  
tel: +44 (0)844 8156641  
fax: +44 (0)844 8156642  
e-mail: awatkins@prosoils.co.uk

**Date:** 22-Sep-15  
**Contract Number:** PSL15/4533  
**Location:** SHELTON ROAD, CORBY.  
**Sample Type:** Core  
**Sample Preparation:** Cutting & Grinding  
**Operator:** A.Fry

**Determination of Unconfined Compressive Strength.**  
ISRM Suggested Methods, pp 111 –116, 1981.

Borehole Number	Depth Top (m)	Depth Bottom (m)	Diameter (mm)	Length (mm)	Height: ratio	Initial mass g	Bulk Density Mg/m3	MC %	Dry Density Mg/m3	Load Failure	UCS(MPA)	Mode OF FAILURE	Date Tested	Remarks
BHR3	21.10	21.30	85.00	134.00	1.6	1834	2.41	16.0	2.08	28.5	5.0	Brittle	21-Sep-15	
BHR3	21.75	22.00	85.00	177.00	2.1	2554	2.54	9.7	2.32	81.5	14.4	Brittle	21-Sep-15	
BHR3	22.00	22.15	85.00	142.00	1.7	1894	2.35	13.0	2.08	26.9	4.7	Brittle	21-Sep-15	

Checked by:  ..... Date 22/09/2015

Approved by:  ..... Date 22/09/2015



# Final Report

**Report Number:** 15-21671 Issue-1

**Initial Date of Issue:** 23-Sep-2015

**Client:** Professional Soils Laboratory

**Client Address:** 5/7 Hexthorpe Road  
Doncaster  
South Yorkshire  
DN4 0AR

**Contact(s):** Anthony Watkins  
Mark Beastall  
Russell Gunson  
Sean Royle

**Project:** PSL15/4533 - Shelton Road, Corby

**Quotation No.:** **Date Received:** 18-Sep-2015

**Order No.:** **Date Instructed:** 17-Sep-2015

**No. of Samples:** 4

**Turnaround: (Wkdays)** 5 **Results Due Date:** 23-Sep-2015

**Date Approved:** 23-Sep-2015

**Approved By:**

**Details:** Phil Hellier, Project Director



**Project: PSL15/4533 - Shelton Road, Corby**

Client: Professional Soils Laboratory	<b>Chemtest Job No.:</b>				15-21671	15-21671	15-21671	15-21671
Quotation No.:	<b>Chemtest Sample ID.:</b>				193547	193548	193549	193550
Order No.:	Client Sample Ref.:				BH101	BH102	BH107	BH106
	<b>Client Sample ID.:</b>				D	D	D	D
	Sample Type:				SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				8.00	13.00	6.70	8.00
	Bottom Depth(m):							
	Date Sampled:							
<b>Determinand</b>	<b>Accred.</b>	<b>SOP</b>	<b>Units</b>	<b>LOD</b>				
Moisture	N	2030	%	0.02	29	34	28	14
Organic Matter	U	2625	%	0.4	9.1	7.2	6.7	1.9

## **Report Information**

### **Key**

---

- U UKAS accredited
- M MCERTS and UKAS accredited
- N Unaccredited
- S This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
- SN This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
- T This analysis has been subcontracted to an unaccredited laboratory
- I/S Insufficient Sample
- U/S Unsuitable Sample
- N/E not evaluated
- < "less than"
- > "greater than"

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

Uncertainty of measurement for the determinands tested are available upon request

None of the results in this report have been recovery corrected

All results are expressed on a dry weight basis

The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVCOs, PCBs, Phenols

For all other tests the samples were dried at < 37°C prior to analysis

All Asbestos testing is performed at our Coventry laboratory

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

### **Sample Deviation Codes**

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- A - Date of sampling not supplied
- B - Sample age exceeds stability time (sampling to extraction)
- C - Sample not received in appropriate containers
- D - Broken Container

### **Sample Retention and Disposal**

---

All soil samples will be retained for a period of 60 days from the date of receipt

All water samples will be retained for 14 days from the date of receipt

Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:  
[customerservices@chemtest.co.uk](mailto:customerservices@chemtest.co.uk)





**Delta-Simons Adopted Human Health Generic Assessment Criteria**

**For**

**Commercial End Use**

**Version 4.1 – September 2015**

## Guidance Notes – Using Human Health Soil Screening Values

A tiered risk assessment approach is used for the assessment of soil analysis results considering the 'pollutant linkages' on the basis of a 'source-pathway-receptor' relationship.

The following tables present conservative Tier 1 generic screening assessment criteria (GAC) used by Delta-Simons to provide an initial assessment of risk to Human Health in the context of the proposed redevelopment of the Site.

### GACs are intended to assess:

- △ Chronic (long-term) on-site exposure risk to contaminants in the soil to future users and occupiers of the Site.
- △ Concentrations below the GAC considered tolerable or to pose a minimal risk to human health, or low risk in relation to the Category 4 Screening Levels (C4SLs).

### GACs are not relevant for assessing:

- △ Acute (short-term) exposure risks (e.g. construction workers during development);
- △ Non-human receptors such as controlled waters, ecosystems, buildings and services, animals, domestic pets or plants;
- △ Aesthetic issues which may render a soil unsuitable for use such as odour or colour;
- △ GACs do not take account of other non-soil based sources of contamination such as contamination in groundwater or surface waters; and
- △ GACs are not suitable for assessing whether a soil provides a suitable growing medium for crops or plants.

### Exceedences of Generic Assessment Criteria

An exceedence of a GAC:

- △ Is not an indicator of a significant risk to human health;
- △ Is an indication that the contaminant *may* pose a possibility harm to human health and, therefore, further consideration is required.

In assessing the significance of an exceedence consideration should be given to:

- △ The *nature* of the contaminant (e.g. volatile or non-volatile contaminants)
- △ Site design and potential exposure *pathways* (e.g. hard cover, buildings, landscaping)
- △ The *distribution* of exceedences (widespread or localised, numerous or few exceedences – **NB: Consider data limitations – site coverage and gaps in data.**)
- △ The *margin* of the exceedence(s);
- △ The *duration* and *frequency* of exposure; and
- △ Any other *site specific* factors.

### Generic Assessment Criteria used by Delta-Simons

In the absence of a complete regulatory set of screening values derived using the CLEA Framework, Delta-Simons screening values are based on the following:

- △ The current Soil Guidance Values (SGVs) published by the EA;
- △ Category 4 Screening Levels (C4SLs) published by DEFRA;
- △ The 2014 Land Quality Management (LQM) / Chartered Institute of Environmental Health (CIEH) Suitable for Use Levels for Human Health Risk Assessment (S4ULs);
- △ The guidance values produced by the Environmental Industries Commission (EIC), the Association of Geotechnical and Geoenvironmental Specialists (AGS) and Contaminated Land: Application in Real Environments (CL:AIRE) in December 2009; and
- △ In house Generic Screening Values (DS-GACs) derived by Delta-Simons.

### Contaminants for which Generic Assessment Criteria are Unavailable

Insufficient toxicological data is available to derive GAC for a number of potential contaminants of concern and GAC cannot be derived for mixtures of compounds (e.g. total petroleum hydrocarbons). In such cases Delta-Simons will endeavour to use conservative

surrogate GAC values to provide an initial screening assessment based on the known chemical and physical properties of the contaminant.

#### Notes and References used in the Tables

Generic Assessment Criteria Source	
SGV	Soil Guidance Values published by the EA
DS-GAC	Delta-Simons Generic Assessment Criteria derived using CLEA V.1.06.
C4SL	Category 4 Screening Levels, DEFRA December 2014
SGV v.1.05	Environment Agency Soil Guideline Values for dioxins, furans and dioxin-like PCBs calculated within CLEA V.1.05.
LQM	LQM/CIEH Suitable for Use Levels for Human Health Risk Assessment (S4UL), November 2014. ( <i>Copyright Land Quality Management Limited, reduced with permission; Publication Number S4UL3087. All rights reserved.</i> )
EIC	EIC/AGS/CL:AIRE Soil Generic Assessment Criteria for Human Health Risk Assessment derived using CLEA V.1.06.
Abbreviations	
Units	All values mg/kg unless otherwise stated.
SOM	Soil Organic Matter – GAC have been derived for a range of soil organic matter content – 1%, 2.5 or 3% and 6%.  In the absence of site specific data or robust soil characterisation the most conservative value of 1% soil organic matter should be used as the initial screening value.
(##)	GAC exceed saturation/vapour concentration (given in brackets). Soil concentrations above the soil saturation may indicate that non-aqueous phase liquid (NAPL) is present. Risks from NAPL may need to be considered separately. Reference should always be made to the site investigation observations and soil logs were available.

#### Use of C4SLs as Screening Criteria

Only the lead C4SL should be used as an initial screening level, as there is no 'minimal risk' screening value available. Though primarily designed for assessing the risk of land being determined as 'contaminated' under Part 2A, Defra have confirmed<sup>1</sup> that the C4SL could be used under the planning regime. Where applicable, the 'minimal risk' level should be used as the initial screening level and where exceedances are identified reference to, and consideration of the C4SL levels may be made in the risk assessment process.

<sup>1</sup> Defra/Lord de Mauley letter to all Local Authorities dated 3<sup>rd</sup> September 2014.

**Metals**

<b>Compound</b>	<b>1% SOM</b>	<b>Source</b>	<b>2.5 - 3% SOM</b>	<b>Source</b>	<b>6% SOM</b>	<b>Source</b>
Antimony	7500	EIC	7500	EIC	7500	EIC
Arsenic	640	SGV	640	SGV	640	SGV
Arsenic	640	LQM	640	LQM	640	LQM
Arsenic	640	C4SL	640	C4SL	640	C4SL
Barium	22000	EIC	22000	EIC	22000	EIC
Beryllium	12	LQM	12	LQM	12	LQM
Boron	240000	LQM	240000	LQM	240000	LQM
Cadmium	230	SGV	230	SGV	230	SGV
Cadmium	190	LQM	190	LQM	190	LQM
Cadmium	410	C4SL	410	C4SL	410	C4SL
Chromium III	8600	LQM	8600	LQM	8600	LQM
Chromium VI	33	LQM	33	LQM	33	LQM
Chromium (VI)	49	C4SL	49	C4SL	49	C4SL
Copper	68000	LQM	68000	LQM	68000	LQM
Lead	2300	C4SL	2300	C4SL	2300	C4SL
Mercury (elemental)	(4.3)	DS-GAC	(13)	DS-GAC	(26)	SGV
Mercury (elemental)	-	-	-	-	58 (25.8)	LQM
Mercury (inorganic)	3600	DS-GAC	3600	DS-GAC	3600	SGV
Mercury (inorganic)	1100	LQM	1100	LQM	1100	LQM
Mercury (methyl)	(73)	DS-GAC	400	DS-GAC	410	SGV
Mercury (methyl)	-	-	-	-	320	LQM
Molybdenum	17000	EIC	17000	EIC	17000	EIC
Nickel	980	LQM	980	LQM	980	LQM
Selenium	13000	SGV	13,000	SGV	13000	SGV
Selenium	12000	LQM	12000	LQM	12000	LQM
Vanadium	9000	LQM	9000	LQM	9000	LQM
Zinc	730000	LQM	730000	LQM	730000	LQM

*Italics– These values were derived based on a 6% SOM, however, the supporting documentation indicates that SOM has a negligible influence for these metals.*

### Petroleum Hydrocarbons

Compound	1% SOM	Source	2.5 - 3% SOM	Source	6% SOM	Source
Aliphatic EC5-EC6	3200 (304)	LQM	5900 (558)	LQM	12000 (1150)	LQM
Aliphatic >EC6-EC8	7800 (144)	LQM	17000 (322)	LQM	40000 (736)	LQM
Aliphatic >EC8-EC10	2000 (78)	LQM	4800 (190)	LQM	11000 (451)	LQM
Aliphatic >EC10-EC12	9700 (48)	LQM	23000 (118)	LQM	47000 (283)	LQM
Aliphatic >EC12-EC16	59000 (24)	LQM	82000 (59)	LQM	90000 (142)	LQM
Aliphatic >EC16-EC35	1600000	LQM	1700000	LQM	1800000	LQM
Aliphatic >EC35-EC44	1600000	LQM	1700000	LQM	1800000	LQM
Aromatic >EC5-EC7	26000 (1220)	LQM	46000 (2260)	LQM	86000 (4710)	LQM
Aromatic >EC7-EC8	56000 (869)	LQM	110000 (1920)	LQM	180000 (4360)	LQM
Aromatic >EC8-EC10	3500 (613)	LQM	8100 (1500)	LQM	17000 (3580)	LQM
Aromatic >EC10-EC12	16000 (364)	LQM	28000 S(899)	LQM	34000 (2150)	LQM
Aromatic >EC12-EC16	36000 (169)	LQM	37000	LQM	38000	LQM
Aromatic >EC16-EC21	28000	LQM	28000	LQM	28000	LQM
Aromatic >EC21-EC35	28000	LQM	28000	LQM	28000	LQM
Aromatic >EC35-EC44	28000	LQM	28000	LQM	28000	LQM
Aromatic and Aliphatic >EC44-EC70	28000	LQM	28000	LQM	28000	LQM



**Polycyclic Aromatic Hydrocarbons (PAH)**

Compound	1% SOM	Source	2.5 - 3% SOM	Source	6% SOM	Source
Naphthalene	190 (76.4)	LQM	460 (183)	LQM	1100 (432)	LQM
Acenaphthylene	83000 (86.1)	LQM	97000 (212)	LQM	100000	LQM
Acenaphthene	84000 (57)	LQM	97000 (141)	LQM	100000	LQM
Fluorene	63000 (30.9)	LQM	68000	LQM	71000	LQM
Phenanthrene	22000	LQM	22000	LQM	23000	LQM
Anthracene	520000	LQM	540000	LQM	540000	LQM
Fluoranthene	23000	LQM	23000	LQM	23000	LQM
Pyrene	54000	LQM	54000	LQM	54000	LQM
Benzo[a]anthracene	170	LQM	170	LQM	180	LQM
Chrysene	350	LQM	350	LQM	350	LQM
Benzo[b]fluoranthene	44	LQM	44	LQM	45	LQM
Benzo[k]fluoranthene	1200	LQM	1200	LQM	1200	LQM
Benzo[a]pyrene	35	LQM	35	LQM	36	LQM
Benzo[a]pyrene	77	C4SL	77	C4SL	77	C4SL
Indeno[123-cd]pyrene	500	LQM	510	LQM	510	LQM
Dibenz[ah]anthracene	3.5	LQM	3.6	LQM	3.6	LQM
Benzo[ghi]perylene	3900	LQM	4000	LQM	4000	LQM

*C4SL for benzo(a)pyrene is based on 6% SOM only, however, the published C4SL Final Project Report indicates that SOM has a negligible influence for this compound.*

## Volatile Organic Compounds (VOC)

Compound	1% SOM	Source	2.5 - 3% SOM	Source	6% SOM	Source
<b>BTEX/MTBE</b>						
Benzene					95	SGV
Benzene	27	LQM	47	LQM	90	LQM
Benzene	27	C4SL	-	-	98	C4SL
Toluene					(4400)	SGV
Toluene	56000 (869)	LQM	110000 (1920)	LQM	180000 (4360)	LQM
Ethylbenzene					(2,800)	SGV
Ethylbenzene	5700 (518)	LQM	13000 (1220)	LQM	27000 (2840)	LQM
Xylene – m					(3500)	SGV
Xylene – m	6200 (625)	LQM	14000 (1470)	LQM	31000 (3460)	LQM
Xylene – o					(2,600)	SGV
Xylene – o	6600 (478)	LQM	15000 (1120)	LQM	33000 (2620)	6600 (478)
Xylene – p					(3,200)	SGV
Xylene – p	5900 (576)	LQM	14000 (1350)	LQM	30000 (3170)	LQM
Methyl <i>tert</i> -butyl ether	7900	EIC	13000	EIC	24000	EIC
<b>Chlorinated Solvents</b>						
Vinyl Chloride (Chloroethene)	0.059	LQM	0.077	LQM	0.12	LQM
Trichloromethane (Chloroform)	99	LQM	170	LQM	350	LQM
1,2-Dichloroethane (1,2-DCA)	0.67	LQM	0.97	LQM	1.7	LQM
Trichloroethene (TCE)	1.2	LQM	2.6	LQM	5.7	LQM
1,1,1-Trichloroethane	660	LQM	1300	LQM	3000	LQM
Tetrachloroethene (PCE)	19	LQM	42	LQM	95	LQM
1,1,1,2-Tetrachloroethanes	110	LQM	250	LQM	560	LQM
1,1,1,2-Tetrachloroethane	270	LQM	550	LQM	1100	LQM
Tetrachloromethane	2.9	LQM	6.3	LQM	14	LQM
1,1,2 Trichloroethane	94	EIC	190	EIC	400	EIC
1,1-Dichloroethane	280	EIC	450	EIC	850	EIC
1,1-Dichloroethene	26	EIC	46	EIC	92	EIC
<i>Cis</i> 1,2-Dichloroethene	14	EIC	24	EIC	47	EIC
<i>Trans</i> 1,2-dichloroethene	22	EIC	40	EIC	81	EIC
<b>Benzenes</b>						
Chlorobenzene	56	LQM	130	LQM	290	LQM
1,2,4-Trimethylbenzene	42	EIC	99	EIC	220	EIC
Iso-propylbenzene	1400 (390)	EIC	3300 (950)	EIC	7700 (2250)	EIC
Propylbenzene	4100 (402)	EIC	9700 (981)	EIC	21000 (2330)	EIC
<b>Other</b>						

Collation of Human Health SGVs and Soil Screening Values – Commercial

Compound	1% SOM	Source	2.5 - 3% SOM	Source	6% SOM	Source
Bromobenzene	97	EIC	220	EIC	520	EIC
Bromodichloromethane	2.1	EIC	3.7	EIC	7.6	EIC
Carbon Disulphide	11	LQM	22	LQM	47	LQM
Chloroethane	960	EIC	1300	EIC	2100	EIC
Chloromethane	1	EIC	1.2	EIC	1.6	EIC
Dichloromethane	270	EIC	360	EIC	560	EIC
1,2-Dichloropropane	3.3	EIC	5.9	EIC	12	EIC
Hexachlorobutadiene	31	LQM	66	LQM	120	LQM
Styrene	3300 (626)	EIC	6500 (1440)	EIC	11000 (3350)	EIC

## Semi-Volatile Organic Compounds (SVOC) and Other Organic Compounds

Compound	1% SOM	Source	2.5 - 3% SOM	Source	6% SOM	Source
<b>Chlorobenzenes</b>						
1,2-Dichlorobenzene	2000 (571)	LQM	4800 (1370)	LQM	11000 (3240)	LQM
1,3-Dichlorobenzene	30	LQM	73	LQM	170	LQM
1,4-Dichlorobenzene	4400 (224)	LQM	10000 (540)	LQM	25000 (1280)	LQM
1,2,3-Trichlorobenzene	102	LQM	250	LQM	590	LQM
1,2,4-Trichlorobenzene	220	LQM	530	LQM	1300	LQM
1,3,5-Trichlorobenzene	23	LQM	55	LQM	130	LQM
1,2,3,4-Tetrachlorobenzene	1700 (122)	LQM	3080 (304)	LQM	4400 (728)	LQM
1,2,3,5-Tetrachlorobenzene	49 (39.4)	LQM	120 (98.1)	LQM	240 (235)	LQM
1,2,4,5-Tetrachlorobenzene	42 (19.7)	LQM	72 (49.1)	LQM	96	LQM
Pentachlorobenzene	640 (43)	LQM	770 (107)	LQM	830	LQM
Hexachlorobenzene	110 (0.2)	LQM	120	LQM	120	LQM
<b>Phthalates</b>						
Bis (2-ethylhexyl)phthalate	85,000 (8.68)	EIC	86,000 (21.6)	EIC	86,000 (51.7)	EIC
Diethyl phthalate	150,000 (13.7)	EIC	220,000 (29.1)	EIC	290,000 (65)	EIC
Di- <i>n</i> -butyl phthalate	15,000 (4.65)	EIC	15,000 (11.4)	EIC	15,000 (27.3)	EIC
Di- <i>n</i> -octyl phthalate	89,000 (32.6)	EIC	89,000 (81.5)	EIC	89,000 (196)	EIC
Butyl benzyl phthalate	940,000 (26.3)	EIC	940,000 (64.7)	EIC	950,000 (154)	EIC
<b>Phenols</b>						
Phenol	440	LQM	690	LQM	1200	LQM
2,4-Dimethylphenol	16000 (1380)	EIC	24000 (3140)	EIC	30000 (7240)	EIC
Total Cresols (2-, 3- and 4-methylphenol)	160000 (15000)	EIC	180000 (32500)	EIC	180000 (73300)	EIC
<b>Chlorophenols</b>						
Chlorophenols (except Pentachlorophenol)	3500	LQM	4000	LQM	4300	LQM
Pentachlorophenol	400	LQM	400	LQM	400	LQM
<b>Other</b>						
Biphenyl	18000 (34.4)	EIC	33000 (84.3)	EIC	48000 (201)	EIC
Bromoform	760	EIC	1500	EIC	3100	EIC
2-Chloronaphthalene	390 (114)	EIC	960 (280)	EIC	2,200 (669)	EIC
2,4-Dinitrotoluene	3,700 (141)	EIC	3,700 (299)	EIC	3,800 (669)	EIC
2,6-Dinitrotoluene	1,900 (287)	EIC	1,900 (622)	EIC	1,900 (1400)	EIC
Hexachloroethane	22 (8.17)	EIC	53 (20.1)	EIC	120 (48.1)	EIC
Tributyl tin oxide	130 (41.3)	EIC	180 (101)	EIC	200 (241)	EIC

**PCBs, Furans and Dioxins**

Compound	1% SOM	Source	2.5 - 3% SOM	Source	6% SOM	Source
Sum of PCDDs, PCDFs and dioxin-like PCBs	-	-	-	-	0.24	SGV v.1.05

**Pesticides and Herbicides**

Compound	1% SOM	Source	2.5 - 3% SOM	Source	6% SOM	Source
Aldrin	170	LQM	170	LQM	170	LQM
Dieldrin	170	LQM	170	LQM	170	LQM
Atrazine	9300	LQM	9400	LQM	9400	LQM
Dichlorvos	140	LQM	140	LQM	140	LQM
Endosulfan (alpha)	5600 (0.003)	LQM	7400 (0.007)	LQM	8400 (0.016)	LQM
Endosulfan (beta)	6300 (0.00007)	LQM	7800 (0.0002)	LQM	8700	LQM
alpha-Hexachlorocyclohexanes	170	LQM	180	LQM	180	LQM
beta-Hexachlorocyclohexanes	65	LQM	65	LQM	65	LQM
gamma-Hexachlorocyclohexanes (inc. Lindane)	67	LQM	69	LQM	70	LQM

**Explosives**

Compound	1% SOM	Source	2.5 - 3% SOM	Source	6% SOM	Source
2,4,6 Trinitrotoluene (TNT)	1000	LQM	1000	LQM	1000	LQM
RDX	210000	LQM	210000	LQM	210000	LQM
HMX	110000	LQM	110000	LQM	110000	LQM





# Final Report

**Report Number:** 15-20519 Issue-1

**Initial Date of Issue:** 22-Sep-2015

**Client:** Delta Simons

**Client Address:** 3 Henley Office Park  
Doddington Road  
Lincoln  
Lincolnshire  
LN6 3QR

**Contact(s):** Simon Steele  
Alex Cutts  
Stacey Ragsdale

**Project:** 15-0645.02 - Corby

**Quotation No.:** Q15-04536      **Date Received:** 07-Sep-2015

**Order No.:** DS26055      **Date Instructed:** 15-Sep-2015

**No. of Samples:** 33

**Turnaround: (Wkdays)** 5      **Results Due Date:** 21-Sep-2015

**Date Approved:** 22-Sep-2015

**Approved By:**

**Details:** Darrell Hall, Laboratory Director  
Keith Jones, Technical Manager

**Project: 15-0645.02 - Corby**

Client: Delta Simons	Chemtest Job No.:		15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519
Quotation No.: Q15-04536	Chemtest Sample ID.:		187834	187835	187836	187837	187838	187839	187840	187841	187842	187842
Order No.: DS26055	Client Sample Ref.:		Sand	Clay	Clay	Sand	Clay	Sand	Clay	Sand	Clay	Clay
	Client Sample ID.:		DS104	DS104	DS102	DS105	DS105	DS103	DS103	DS106	DS106	DS106
	Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):		0.2	1.0	0.3	0.2	2.0	0.2	0.6	0.2	1.5	1.5
	Bottom Depth(m):		0.3	1.4	0.5	0.3	2.4	0.3	0.9	0.3	1.8	1.8
	Date Sampled:		01-Sep-15	01-Sep-15	01-Sep-15	01-Sep-15	01-Sep-15	01-Sep-15	01-Sep-15	01-Sep-15	01-Sep-15	01-Sep-15
Determinand	Accred.	SOP	Units	LOD								
ACM Type	U	2192			-	-	-	-	-	-	-	-
Asbestos Identification	U	2192			No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Moisture	N	2030	%	0.02	7.1	17	20	5.6	16	5.5	15	11
Soil Colour	N				Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material	N				Stones	Stones	Stones	Stones	NONE	Stones	NONE	Stones
Soil Texture	N				Sand	Loam	Clay	Sand	Clay	Sand	Loam	Sand
pH	M	2010			8.1	7.8	7.9	8.4	Clay	8.1		10.2
Boron (Hot Water Soluble)	M	2120	mg/kg	0.4	< 0.40	0.97	0.97	< 0.40		< 0.40		0.46
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.01	0.83	0.86	0.62	0.17		1.1		1.1
Total Sulphur	M	2175	%	0.01	0.18	0.50	0.55	0.12		0.23		0.17
Cyanide (Free)	M	2300	mg/kg	0.5	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50		< 0.50
Cyanide (Total)	M	2300	mg/kg	0.5	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50		< 0.50
Sulphate (Acid Soluble)	M	2430	%	0.01	0.35	0.82	0.65	0.12		0.39		0.33
Arsenic	M	2450	mg/kg	1	44	39	33	33		42		29
Cadmium	M	2450	mg/kg	0.1	0.31	0.36	0.19	0.21		0.27		0.21
Chromium	M	2450	mg/kg	1	13	48	40	9.5		11		12
Copper	M	2450	mg/kg	0.5	2.2	52	23	2.8		3.2		2.5
Mercury	M	2450	mg/kg	0.1	< 0.10	< 0.10	< 0.10	< 0.10		< 0.10		< 0.10
Nickel	M	2450	mg/kg	0.5	6.0	43	38	4.8		5.6		6.2
Lead	M	2450	mg/kg	0.5	2.2	87	23	1.8		1.7		2.1
Selenium	M	2450	mg/kg	0.2	< 0.20	< 0.20	< 0.20	< 0.20		< 0.20		< 0.20
Zinc	M	2450	mg/kg	0.5	17	400	89	14		15		15
Chromium (Trivalent)	N	2490	mg/kg	5	13	48	40	9.5		11		12
Chromium (Hexavalent)	N	2490	mg/kg	0.5	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50		< 0.50
Fuel Type	N	2670			W.Diesel	N/A		N/A		N/A		W.Diesel
Aliphatic TPH >C5-C6	N	2680	mg/kg	1	< 1.0	< 1.0		< 1.0		< 1.0		< 1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1	< 1.0	< 1.0		< 1.0		< 1.0		< 1.0
Aliphatic TPH >C8-C10	M	2680	mg/kg	1	< 1.0	< 1.0		< 1.0		< 1.0		< 1.0
Aliphatic TPH >C10-C12	M	2680	mg/kg	1	< 1.0	< 1.0		< 1.0		< 1.0		< 1.0
Aliphatic TPH >C12-C16	M	2680	mg/kg	1	6.8	< 1.0		< 1.0		< 1.0		36
Aliphatic TPH >C16-C21	M	2680	mg/kg	1	5.0	< 1.0		< 1.0		< 1.0		17
Aliphatic TPH >C21-C35	M	2680	mg/kg	1	< 1.0	< 1.0		< 1.0		< 1.0		1.2



**Project: 15-0645.02 - Corby**

Client: Delta Simons	Chemtest Job No.:		15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519
Quotation No.: Q15-04536	Chemtest Sample ID.:		187834	187835	187836	187837	187838	187839	187840	187841	187842
Order No.: DS26055	Client Sample Ref.:		Sand	Clay	Clay	Sand	Clay	Sand	Clay	Sand	Clay
	Client Sample ID.:		DS104	DS104	DS102	DS105	DS105	DS103	DS103	DS106	DS106
	Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):		0.2	1.0	0.3	0.2	2.0	0.2	0.6	0.2	1.5
	Bottom Depth(m):		0.3	1.4	0.5	0.3	2.4	0.3	0.9	0.3	1.8
	Date Sampled:		01-Sep-15	01-Sep-15	01-Sep-15	01-Sep-15	01-Sep-15	01-Sep-15	01-Sep-15	01-Sep-15	01-Sep-15
Determinand	Accred.	SOP	Units	LOD							
Aliphatic TPH >C35-C44	N	2680	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Total Aliphatic Hydrocarbons	M	2680	mg/kg	5	12	< 5.0	< 5.0	< 5.0	< 5.0	54	
Aromatic TPH >C5-C7	N	2680	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Aromatic TPH >C7-C8	N	2680	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Aromatic TPH >C8-C10	M	2680	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Aromatic TPH >C10-C12	M	2680	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Aromatic TPH >C12-C16	M	2680	mg/kg	1	2.6	< 1.0	< 1.0	< 1.0	< 1.0	11	
Aromatic TPH >C16-C21	M	2680	mg/kg	1	2.1	< 1.0	< 1.0	< 1.0	< 1.0	4.3	
Aromatic TPH >C21-C35	M	2680	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Aromatic TPH >C35-C44	N	2680	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Total Aromatic Hydrocarbons	M	2680	mg/kg	5	5.2	< 5.0	< 5.0	< 5.0	< 5.0	16	
Total Petroleum Hydrocarbons	M	2680	mg/kg	10	18	< 10	< 10	< 10	< 10	70	
Naphthalene	M	2700	mg/kg	0.1	< 0.10	2.0	1.1	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	M	2700	mg/kg	0.1	< 0.10	0.16	0.27	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	M	2700	mg/kg	0.1	< 0.10	0.44	0.26	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	M	2700	mg/kg	0.1	< 0.10	0.43	0.40	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	M	2700	mg/kg	0.1	< 0.10	1.6	0.88	< 0.10	< 0.10	< 0.10	< 0.10
Anthracene	M	2700	mg/kg	0.1	< 0.10	0.21	0.12	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	M	2700	mg/kg	0.1	< 0.10	1.3	0.91	< 0.10	< 0.10	< 0.10	< 0.10
Pyrene	M	2700	mg/kg	0.1	< 0.10	1.2	0.69	< 0.10	< 0.10	0.23	< 0.10
Benzo[a]anthracene	M	2700	mg/kg	0.1	< 0.10	0.47	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene	M	2700	mg/kg	0.1	< 0.10	0.41	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	M	2700	mg/kg	0.1	< 0.10	0.38	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	M	2700	mg/kg	0.1	< 0.10	0.21	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene	M	2700	mg/kg	0.1	< 0.10	0.21	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	M	2700	mg/kg	0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	M	2700	mg/kg	0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	M	2700	mg/kg	0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's	M	2700	mg/kg	2	< 2.0	9.0	4.6	< 2.0	< 2.0	< 2.0	< 2.0
Dichlorodifluoromethane	U	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloromethane	M	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl Chloride	M	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane	M	2760	µg/kg	20	< 20	< 20	< 20	< 20	< 20	< 20	< 20

**Project: 15-0645.02 - Corby**

Client: Delta Simons	Chemtest Job No.:		15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519
Quotation No.: Q15-04536	Chemtest Sample ID.:		187834	187835	187836	187837	187838	187839	187840	187841	187842
Order No.: DS26055	Client Sample Ref.:		Sand	Clay	Clay	Sand	Clay	Sand	Clay	Sand	Clay
	Client Sample ID.:		DS104	DS104	DS102	DS105	DS105	DS103	DS103	DS106	DS106
	Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):		0.2	1.0	0.3	0.2	2.0	0.2	0.6	0.2	1.5
	Bottom Depth(m):		0.3	1.4	0.5	0.3	2.4	0.3	0.9	0.3	1.8
	Date Sampled:		01-Sep-15	01-Sep-15	01-Sep-15	01-Sep-15	01-Sep-15	01-Sep-15	01-Sep-15	01-Sep-15	01-Sep-15
Determinand	Accred.	SOP	Units	LOD							
Chloroethane	U	2760	µg/kg	2	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Trichlorofluoromethane	M	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	M	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trans 1,2-Dichloroethene	M	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	M	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis 1,2-Dichloroethene	M	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromochloromethane	U	2760	µg/kg	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Trichloromethane	M	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1-Trichloroethane	M	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloromethane	M	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloropropene	U	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Benzene	M	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	M	2760	µg/kg	2	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Trichloroethene	M	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	M	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dibromomethane	M	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromodichloromethane	M	2760	µg/kg	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
cis-1,3-Dichloropropene	N	2760	µg/kg	10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Toluene	M	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,3-Dichloropropene	N	2760	µg/kg	10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
1,1,2-Trichloroethane	M	2760	µg/kg	10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Tetrachloroethene	M	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichloropropane	U	2760	µg/kg	2	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Dibromochloromethane	U	2760	µg/kg	10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
1,2-Dibromoethane	M	2760	µg/kg	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chlorobenzene	M	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1,2-Tetrachloroethane	M	2760	µg/kg	2	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Ethylbenzene	M	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m & p-Xylene	M	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene	M	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Styrene	M	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tribromomethane	U	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Isopropylbenzene	M	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

**Project: 15-0645.02 - Corby**

Client: Delta Simons	Chemtest Job No.:					15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	
Quotation No.: Q15-04536	Chemtest Sample ID.:					187834	187835	187836	187837	187838	187839	187840	187841	187842
Order No.: DS26055	Client Sample Ref.:					Sand	Clay	Clay	Sand	Clay	Sand	Clay	Sand	Clay
	Client Sample ID.:					DS104	DS104	DS102	DS105	DS105	DS103	DS103	DS106	DS106
	Sample Type:					SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):					0.2	1.0	0.3	0.2	2.0	0.2	0.6	0.2	1.5
	Bottom Depth(m):					0.3	1.4	0.5	0.3	2.4	0.3	0.9	0.3	1.8
	Date Sampled:					01-Sep-15	01-Sep-15	01-Sep-15	01-Sep-15	01-Sep-15	01-Sep-15	01-Sep-15	01-Sep-15	01-Sep-15
Determinand	Accred.	SOP	Units	LOD										
Bromobenzene	M	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichloropropane	N	2760	µg/kg	50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
N-Propylbenzene	U	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2-Chlorotoluene	M	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	M	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
4-Chlorotoluene	U	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tert-Butylbenzene	U	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	M	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Sec-Butylbenzene	U	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	M	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
4-Isopropyltoluene	U	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	M	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
N-Butylbenzene	U	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	M	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-Chloropropane	U	2760	µg/kg	50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
1,2,4-Trichlorobenzene	M	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Hexachlorobutadiene	U	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichlorobenzene	U	2760	µg/kg	2	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Methyl Tert-Butyl Ether	M	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
N-Nitrosodimethylamine	N	2790	mg/kg	0.5					< 0.50		< 0.50			
Phenol	N	2790	mg/kg	0.5					< 0.50		< 0.50			
2-Chlorophenol	N	2790	mg/kg	0.5					< 0.50		< 0.50			
Bis-(2-Chloroethyl)Ether	N	2790	mg/kg	0.5					< 0.50		< 0.50			
1,3-Dichlorobenzene	N	2790	mg/kg	0.5					< 0.50		< 0.50			
1,4-Dichlorobenzene	N	2790	mg/kg	0.5					< 0.50		< 0.50			
1,2-Dichlorobenzene	N	2790	mg/kg	0.5					< 0.50		< 0.50			
2-Methylphenol	N	2790	mg/kg	0.5					< 0.50		< 0.50			
Bis(2-Chloroisopropyl)Ether	N	2790	mg/kg	0.5					< 0.50		< 0.50			
Hexachloroethane	N	2790	mg/kg	0.5					< 0.50		< 0.50			
N-Nitrosodi-n-propylamine	N	2790	mg/kg	0.5					< 0.50		< 0.50			
4-Methylphenol	N	2790	mg/kg	0.5					< 0.50		< 0.50			
Nitrobenzene	N	2790	mg/kg	0.5					< 0.50		< 0.50			
Isophorone	N	2790	mg/kg	0.5					< 0.50		< 0.50			

**Project: 15-0645.02 - Corby**

Client: Delta Simons	Chemtest Job No.:		15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519
Quotation No.: Q15-04536	Chemtest Sample ID.:		187834	187835	187836	187837	187838	187839	187840	187841	187842
Order No.: DS26055	Client Sample Ref.:		Sand	Clay	Clay	Sand	Clay	Sand	Clay	Sand	Clay
	Client Sample ID.:		DS104	DS104	DS102	DS105	DS105	DS103	DS103	DS106	DS106
	Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):		0.2	1.0	0.3	0.2	2.0	0.2	0.6	0.2	1.5
	Bottom Depth(m):		0.3	1.4	0.5	0.3	2.4	0.3	0.9	0.3	1.8
	Date Sampled:		01-Sep-15	01-Sep-15	01-Sep-15	01-Sep-15	01-Sep-15	01-Sep-15	01-Sep-15	01-Sep-15	01-Sep-15
Determinand	Accred.	SOP	Units	LOD							
2-Nitrophenol	N	2790	mg/kg	0.5				< 0.50		< 0.50	
2,4-Dimethylphenol	N	2790	mg/kg	0.5				< 0.50		< 0.50	
Bis(2-Chloroethoxy)Methane	N	2790	mg/kg	0.5				< 0.50		< 0.50	
2,4-Dichlorophenol	N	2790	mg/kg	0.5				< 0.50		< 0.50	
1,2,4-Trichlorobenzene	N	2790	mg/kg	0.5				< 0.50		< 0.50	
Naphthalene	N	2790	mg/kg	0.5				< 0.50		< 0.50	
4-Chloroaniline	N	2790	mg/kg	0.5				< 0.50		< 0.50	
Hexachlorobutadiene	N	2790	mg/kg	0.5				< 0.50		< 0.50	
4-Chloro-3-Methylphenol	N	2790	mg/kg	0.5				< 0.50		< 0.50	
2-Methylnaphthalene	N	2790	mg/kg	0.5				< 0.50		< 0.50	
4-Nitrophenol	N	2790	mg/kg	0.5				< 0.50		< 0.50	
Hexachlorocyclopentadiene	N	2790	mg/kg	0.5				< 0.50		< 0.50	
2,4,6-Trichlorophenol	N	2790	mg/kg	0.5				< 0.50		< 0.50	
2,4,5-Trichlorophenol	N	2790	mg/kg	0.5				< 0.50		< 0.50	
2-Chloronaphthalene	N	2790	mg/kg	0.5				< 0.50		< 0.50	
2-Nitroaniline	N	2790	mg/kg	0.5				< 0.50		< 0.50	
Acenaphthylene	N	2790	mg/kg	0.5				< 0.50		< 0.50	
Dimethylphthalate	N	2790	mg/kg	0.5				< 0.50		< 0.50	
2,6-Dinitrotoluene	N	2790	mg/kg	0.5				< 0.50		< 0.50	
Acenaphthene	N	2790	mg/kg	0.5				< 0.50		< 0.50	
3-Nitroaniline	N	2790	mg/kg	0.5				< 0.50		< 0.50	
Dibenzofuran	N	2790	mg/kg	0.5				< 0.50		< 0.50	
4-Chlorophenylphenylether	N	2790	mg/kg	0.5				< 0.50		< 0.50	
2,4-Dinitrotoluene	N	2790	mg/kg	0.5				< 0.50		< 0.50	
Fluorene	N	2790	mg/kg	0.5				< 0.50		< 0.50	
Diethyl Phthalate	N	2790	mg/kg	0.5				< 0.50		< 0.50	
4-Nitroaniline	N	2790	mg/kg	0.5				< 0.50		< 0.50	
2-Methyl-4,6-Dinitrophenol	N	2790	mg/kg	0.5				< 0.50		< 0.50	
Azobenzene	N	2790	mg/kg	0.5				< 0.50		< 0.50	
4-Bromophenylphenyl Ether	N	2790	mg/kg	0.5				< 0.50		< 0.50	
Hexachlorobenzene	N	2790	mg/kg	0.5				< 0.50		< 0.50	
Pentachlorophenol	N	2790	mg/kg	0.5				< 0.50		< 0.50	
Phenanthrene	N	2790	mg/kg	0.5				< 0.50		< 0.50	

**Project: 15-0645.02 - Corby**

Client: Delta Simons	<b>Chemtest Job No.:</b>				15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519
Quotation No.: Q15-04536	<b>Chemtest Sample ID.:</b>				187834	187835	187836	187837	187838	187839	187840	187841	187842
Order No.: DS26055	<b>Client Sample Ref.:</b>				Sand	Clay	Clay	Sand	Clay	Sand	Clay	Sand	Clay
	<b>Client Sample ID.:</b>				DS104	DS104	DS102	DS105	DS105	DS103	DS103	DS106	DS106
	<b>Sample Type:</b>				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<b>Top Depth (m):</b>				0.2	1.0	0.3	0.2	2.0	0.2	0.6	0.2	1.5
	<b>Bottom Depth(m):</b>				0.3	1.4	0.5	0.3	2.4	0.3	0.9	0.3	1.8
	<b>Date Sampled:</b>				01-Sep-15	01-Sep-15	01-Sep-15	01-Sep-15	01-Sep-15	01-Sep-15	01-Sep-15	01-Sep-15	01-Sep-15
<b>Determinand</b>	<b>Accred.</b>	<b>SOP</b>	<b>Units</b>	<b>LOD</b>									
Anthracene	N	2790	mg/kg	0.5					< 0.50		< 0.50		
Carbazole	N	2790	mg/kg	0.5					< 0.50		< 0.50		
Di-N-Butyl Phthalate	N	2790	mg/kg	0.5					< 0.50		< 0.50		
Fluoranthene	N	2790	mg/kg	0.5					< 0.50		< 0.50		
Pyrene	N	2790	mg/kg	0.5					< 0.50		< 0.50		
Butylbenzyl Phthalate	N	2790	mg/kg	0.5					< 0.50		< 0.50		
Benzo[a]anthracene	N	2790	mg/kg	0.5					< 0.50		< 0.50		
Chrysene	N	2790	mg/kg	0.5					< 0.50		< 0.50		
Bis(2-Ethylhexyl)Phthalate	N	2790	mg/kg	0.5					< 0.50		< 0.50		
Di-N-Octyl Phthalate	N	2790	mg/kg	0.5					< 0.50		< 0.50		
Benzo[b]fluoranthene	N	2790	mg/kg	0.5					< 0.50		< 0.50		
Benzo[k]fluoranthene	N	2790	mg/kg	0.5					< 0.50		< 0.50		
Benzo[a]pyrene	N	2790	mg/kg	0.5					< 0.50		< 0.50		
Indeno(1,2,3-c,d)Pyrene	N	2790	mg/kg	0.5					< 0.50		< 0.50		
Dibenz(a,h)Anthracene	N	2790	mg/kg	0.5					< 0.50		< 0.50		
Benzo[g,h,i]perylene	N	2790	mg/kg	0.5					< 0.50		< 0.50		
Total Phenols	M	2920	mg/kg	0.3	< 0.30	< 0.30	< 0.30	< 0.30		< 0.30		< 0.30	< 0.30

**Project: 15-0645.02 - Corby**

Client: Delta Simons	Chemtest Job No.:		15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519
Quotation No.: Q15-04536	Chemtest Sample ID.:		187843	187844	187845	187846	187847	187848	187849	187850	187851	187852	187852
Order No.: DS26055	Client Sample Ref.:		Gravel	Clay	Clay	Gravel	Clay	Sand	Clay	Clay	Gravel	Sand	
	Client Sample ID.:		DS107a	DS107a	DS107a	DS111	DS111	DS109	DS109	DS110	DS110	DS112	
	Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
	Top Depth (m):		0.08	0.9	2.3	0.08	1.3	0.1	2.2	1.6	1.8	0.4	
	Bottom Depth(m):		0.11	1.0	2.7	0.1	1.5	0.2	2.5	1.8	2.1	0.5	
	Date Sampled:		01-Sep-15	01-Sep-15	01-Sep-15	02-Sep-15	02-Sep-15	02-Sep-15	02-Sep-15	02-Sep-15	02-Sep-15	02-Sep-15	
Determinand	Accred.	SOP	Units	LOD									
ACM Type	U	2192				-		-		-	Lagging	-	-
Asbestos Identification	U	2192				No Asbestos Detected		No Asbestos Detected		No Asbestos Detected	Amosite	No Asbestos Detected	No Asbestos Detected
Moisture	N	2030	%	0.02	3.2	18	17	1.3	14	8.1	16	15	6.8
Soil Colour	N				Red	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Yellow
Other Material	N				Stones	Roots	Stones	Stones	Stones	Stones	Stones	Stones	Stones
Soil Texture	N				Sand	Clay	Loam	Sand	Loam	Sand	Loam	Sand	Sand
pH	M	2010				7.5		8.3		8.1	10.0	8.1	8.2
Boron (Hot Water Soluble)	M	2120	mg/kg	0.4		0.80		< 0.40		< 0.40	0.81	0.43	< 0.40
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.01		1.3		0.31		1.2	1.2	1.6	1.1
Total Sulphur	M	2175	%	0.01		1.1		0.070		0.20	1.0	1.0	0.17
Cyanide (Free)	M	2300	mg/kg	0.5		< 0.50		< 0.50		< 0.50	< 0.50	< 0.50	< 0.50
Cyanide (Total)	M	2300	mg/kg	0.5		< 0.50		< 0.50		< 0.50	< 0.50	< 0.50	< 0.50
Sulphate (Acid Soluble)	M	2430	%	0.01		0.44		0.18		0.29	0.76	1.5	0.31
Arsenic	M	2450	mg/kg	1		28		8.6		42	32	39	32
Cadmium	M	2450	mg/kg	0.1		0.38		< 0.10		0.29	0.20	< 0.10	0.10
Chromium	M	2450	mg/kg	1		34		11		11	86	25	8.0
Copper	M	2450	mg/kg	0.5		29		20		1.5	44	15	1.2
Mercury	M	2450	mg/kg	0.1		0.35		< 0.10		< 0.10	< 0.10	< 0.10	< 0.10
Nickel	M	2450	mg/kg	0.5		28		13		4.0	38	26	3.4
Lead	M	2450	mg/kg	0.5		49		4.9		1.1	17	8.8	0.99
Selenium	M	2450	mg/kg	0.2		< 0.20		< 0.20		< 0.20	< 0.20	< 0.20	< 0.20
Zinc	M	2450	mg/kg	0.5		190		39		13	120	53	11
Chromium (Trivalent)	N	2490	mg/kg	5		34		11		11	86	25	8.0
Chromium (Hexavalent)	N	2490	mg/kg	0.5		< 0.50		< 0.50		< 0.50	< 0.50	< 0.50	< 0.50
Fuel Type	N	2670				W.Kerosene	N/A			N/A			
Aliphatic TPH >C5-C6	N	2680	mg/kg	1		< 1.0		< 1.0		< 1.0			
Aliphatic TPH >C6-C8	N	2680	mg/kg	1		< 1.0		< 1.0		< 1.0			
Aliphatic TPH >C8-C10	M	2680	mg/kg	1		2700		< 1.0		< 1.0			
Aliphatic TPH >C10-C12	M	2680	mg/kg	1		2600		< 1.0		< 1.0			
Aliphatic TPH >C12-C16	M	2680	mg/kg	1		56		< 1.0		< 1.0			
Aliphatic TPH >C16-C21	M	2680	mg/kg	1		170		< 1.0		< 1.0			
Aliphatic TPH >C21-C35	M	2680	mg/kg	1		1200		< 1.0		< 1.0			

**Project: 15-0645.02 - Corby**

Client: Delta Simons	Chemtest Job No.:		15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519
Quotation No.: Q15-04536	Chemtest Sample ID.:		187843	187844	187845	187846	187847	187848	187849	187850	187851	187852
Order No.: DS26055	Client Sample Ref.:		Gravel	Clay	Clay	Gravel	Clay	Sand	Clay	Clay	Gravel	Sand
	Client Sample ID.:		DS107a	DS107a	DS107a	DS111	DS111	DS109	DS109	DS110	DS110	DS112
	Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):		0.08	0.9	2.3	0.08	1.3	0.1	2.2	1.6	1.8	0.4
	Bottom Depth(m):		0.11	1.0	2.7	0.1	1.5	0.2	2.5	1.8	2.1	0.5
	Date Sampled:		01-Sep-15	01-Sep-15	01-Sep-15	02-Sep-15	02-Sep-15	02-Sep-15	02-Sep-15	02-Sep-15	02-Sep-15	02-Sep-15
Determinand	Accred.	SOP	Units	LOD								
Aliphatic TPH >C35-C44	N	2680	mg/kg	1		58	< 1.0		< 1.0			
Total Aliphatic Hydrocarbons	M	2680	mg/kg	5		6900	< 5.0		< 5.0			
Aromatic TPH >C5-C7	N	2680	mg/kg	1		< 1.0	< 1.0		< 1.0			
Aromatic TPH >C7-C8	N	2680	mg/kg	1		< 1.0	< 1.0		< 1.0			
Aromatic TPH >C8-C10	M	2680	mg/kg	1		8.7	< 1.0		< 1.0			
Aromatic TPH >C10-C12	M	2680	mg/kg	1		750	< 1.0		< 1.0			
Aromatic TPH >C12-C16	M	2680	mg/kg	1		79	< 1.0		< 1.0			
Aromatic TPH >C16-C21	M	2680	mg/kg	1		390	< 1.0		2.0			
Aromatic TPH >C21-C35	M	2680	mg/kg	1		2000	< 1.0		< 1.0			
Aromatic TPH >C35-C44	N	2680	mg/kg	1		280	< 1.0		< 1.0			
Total Aromatic Hydrocarbons	M	2680	mg/kg	5		3500	< 5.0		< 5.0			
Total Petroleum Hydrocarbons	M	2680	mg/kg	10		10000	< 10		< 10			
Naphthalene	M	2700	mg/kg	0.1		0.62	< 0.10		< 0.10	0.71	< 0.10	< 0.10
Acenaphthylene	M	2700	mg/kg	0.1		0.10	< 0.10		< 0.10	0.18	< 0.10	< 0.10
Acenaphthene	M	2700	mg/kg	0.1		0.82	< 0.10		< 0.10	0.19	< 0.10	< 0.10
Fluorene	M	2700	mg/kg	0.1		0.24	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	M	2700	mg/kg	0.1		2.6	< 0.10		< 0.10	1.9	< 0.10	< 0.10
Anthracene	M	2700	mg/kg	0.1		0.27	< 0.10		< 0.10	0.22	< 0.10	< 0.10
Fluoranthene	M	2700	mg/kg	0.1		4.9	< 0.10		< 0.10	3.5	< 0.10	< 0.10
Pyrene	M	2700	mg/kg	0.1		2.9	< 0.10		< 0.10	1.4	< 0.10	< 0.10
Benzo[a]anthracene	M	2700	mg/kg	0.1		1.4	< 0.10		< 0.10	0.80	< 0.10	< 0.10
Chrysene	M	2700	mg/kg	0.1		2.2	< 0.10		< 0.10	1.4	< 0.10	< 0.10
Benzo[b]fluoranthene	M	2700	mg/kg	0.1		1.9	< 0.10		< 0.10	0.15	< 0.10	< 0.10
Benzo[k]fluoranthene	M	2700	mg/kg	0.1		1.1	< 0.10		< 0.10	1.2	< 0.10	< 0.10
Benzo[a]pyrene	M	2700	mg/kg	0.1		0.66	< 0.10		< 0.10	0.82	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	M	2700	mg/kg	0.1		0.91	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	M	2700	mg/kg	0.1		0.65	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	M	2700	mg/kg	0.1		1.2	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's	M	2700	mg/kg	2		23	< 2.0		< 2.0	13	< 2.0	< 2.0
Dichlorodifluoromethane	U	2760	µg/kg	1		< 1.0	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0
Chloromethane	M	2760	µg/kg	1		< 1.0	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0
Vinyl Chloride	M	2760	µg/kg	1		< 1.0	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane	M	2760	µg/kg	20		< 20	< 20		< 20	< 20	< 20	< 20

**Project: 15-0645.02 - Corby**

Client: Delta Simons	Chemtest Job No.:		15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519
Quotation No.: Q15-04536	Chemtest Sample ID.:		187843	187844	187845	187846	187847	187848	187849	187850	187851	187852
Order No.: DS26055	Client Sample Ref.:		Gravel	Clay	Clay	Gravel	Clay	Sand	Clay	Clay	Gravel	Sand
	Client Sample ID.:		DS107a	DS107a	DS107a	DS111	DS111	DS109	DS109	DS110	DS110	DS112
	Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):		0.08	0.9	2.3	0.08	1.3	0.1	2.2	1.6	1.8	0.4
	Bottom Depth(m):		0.11	1.0	2.7	0.1	1.5	0.2	2.5	1.8	2.1	0.5
	Date Sampled:		01-Sep-15	01-Sep-15	01-Sep-15	02-Sep-15	02-Sep-15	02-Sep-15	02-Sep-15	02-Sep-15	02-Sep-15	02-Sep-15
Determinand	Accred.	SOP	Units	LOD								
Chloroethane	U	2760	µg/kg	2		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0		< 2.0
Trichlorofluoromethane	M	2760	µg/kg	1		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0
1,1-Dichloroethene	M	2760	µg/kg	1		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0
Trans 1,2-Dichloroethene	M	2760	µg/kg	1		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0
1,1-Dichloroethane	M	2760	µg/kg	1		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0
cis 1,2-Dichloroethene	M	2760	µg/kg	1		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0
Bromochloromethane	U	2760	µg/kg	5		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0
Trichloromethane	M	2760	µg/kg	1		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0
1,1,1-Trichloroethane	M	2760	µg/kg	1		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0
Tetrachloromethane	M	2760	µg/kg	1		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0
1,1-Dichloropropene	U	2760	µg/kg	1		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0
Benzene	M	2760	µg/kg	1		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0
1,2-Dichloroethane	M	2760	µg/kg	2		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0		< 2.0
Trichloroethene	M	2760	µg/kg	1		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0
1,2-Dichloropropane	M	2760	µg/kg	1		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0
Dibromomethane	M	2760	µg/kg	1		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0
Bromodichloromethane	M	2760	µg/kg	5		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0
cis-1,3-Dichloropropene	N	2760	µg/kg	10		< 10	< 10	< 10	< 10	< 10		< 10
Toluene	M	2760	µg/kg	1		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0
Trans-1,3-Dichloropropene	N	2760	µg/kg	10		< 10	< 10	< 10	< 10	< 10		< 10
1,1,2-Trichloroethane	M	2760	µg/kg	10		< 10	< 10	< 10	< 10	< 10		< 10
Tetrachloroethene	M	2760	µg/kg	1		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0
1,3-Dichloropropane	U	2760	µg/kg	2		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0		< 2.0
Dibromochloromethane	U	2760	µg/kg	10		< 10	< 10	< 10	< 10	< 10		< 10
1,2-Dibromoethane	M	2760	µg/kg	5		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0		< 5.0
Chlorobenzene	M	2760	µg/kg	1		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0
1,1,1,2-Tetrachloroethane	M	2760	µg/kg	2		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0		< 2.0
Ethylbenzene	M	2760	µg/kg	1		12	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0
m & p-Xylene	M	2760	µg/kg	1		2.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0
o-Xylene	M	2760	µg/kg	1		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0
Styrene	M	2760	µg/kg	1		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0
Tribromomethane	U	2760	µg/kg	1		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0
Isopropylbenzene	M	2760	µg/kg	1		18	< 1.0	< 1.0	< 1.0	< 1.0		< 1.0



**Project: 15-0645.02 - Corby**

Client: Delta Simons	Chemtest Job No.:		15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519
Quotation No.: Q15-04536	Chemtest Sample ID.:		187843	187844	187845	187846	187847	187848	187849	187850	187851	187852
Order No.: DS26055	Client Sample Ref.:		Gravel	Clay	Clay	Gravel	Clay	Sand	Clay	Clay	Gravel	Sand
	Client Sample ID.:		DS107a	DS107a	DS107a	DS111	DS111	DS109	DS109	DS110	DS110	DS112
	Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):		0.08	0.9	2.3	0.08	1.3	0.1	2.2	1.6	1.8	0.4
	Bottom Depth(m):		0.11	1.0	2.7	0.1	1.5	0.2	2.5	1.8	2.1	0.5
	Date Sampled:		01-Sep-15	01-Sep-15	01-Sep-15	02-Sep-15	02-Sep-15	02-Sep-15	02-Sep-15	02-Sep-15	02-Sep-15	02-Sep-15
Determinand	Accred.	SOP	Units	LOD								
Bromobenzene	M	2760	µg/kg	1		< 1.0		< 1.0		< 1.0		< 1.0
1,2,3-Trichloropropane	N	2760	µg/kg	50		< 50		< 50		< 50		< 50
N-Propylbenzene	U	2760	µg/kg	1		29		< 1.0		< 1.0		< 1.0
2-Chlorotoluene	M	2760	µg/kg	1		< 1.0		< 1.0		< 1.0		< 1.0
1,3,5-Trimethylbenzene	M	2760	µg/kg	1		79		< 1.0		< 1.0		< 1.0
4-Chlorotoluene	U	2760	µg/kg	1		< 1.0		< 1.0		< 1.0		< 1.0
Tert-Butylbenzene	U	2760	µg/kg	1		10		< 1.0		< 1.0		< 1.0
1,2,4-Trimethylbenzene	M	2760	µg/kg	1		32		< 1.0		< 1.0		< 1.0
Sec-Butylbenzene	U	2760	µg/kg	1		21		< 1.0		< 1.0		< 1.0
1,3-Dichlorobenzene	M	2760	µg/kg	1		< 1.0		< 1.0		< 1.0		< 1.0
4-Isopropyltoluene	U	2760	µg/kg	1		53		< 1.0		< 1.0		< 1.0
1,4-Dichlorobenzene	M	2760	µg/kg	1		< 1.0		< 1.0		< 1.0		< 1.0
N-Butylbenzene	U	2760	µg/kg	1		< 1.0		< 1.0		< 1.0		< 1.0
1,2-Dichlorobenzene	M	2760	µg/kg	1		< 1.0		< 1.0		< 1.0		< 1.0
1,2-Dibromo-3-Chloropropane	U	2760	µg/kg	50		< 50		< 50		< 50		< 50
1,2,4-Trichlorobenzene	M	2760	µg/kg	1		< 1.0		< 1.0		< 1.0		< 1.0
Hexachlorobutadiene	U	2760	µg/kg	1		< 1.0		< 1.0		< 1.0		< 1.0
1,2,3-Trichlorobenzene	U	2760	µg/kg	2		< 2.0		< 2.0		< 2.0		< 2.0
Methyl Tert-Butyl Ether	M	2760	µg/kg	1		< 1.0		< 1.0		< 1.0		< 1.0
N-Nitrosodimethylamine	N	2790	mg/kg	0.5	< 0.50			< 0.50				< 0.50
Phenol	N	2790	mg/kg	0.5	< 0.50			< 0.50				< 0.50
2-Chlorophenol	N	2790	mg/kg	0.5	< 0.50			< 0.50				< 0.50
Bis-(2-Chloroethyl)Ether	N	2790	mg/kg	0.5	< 0.50			< 0.50				< 0.50
1,3-Dichlorobenzene	N	2790	mg/kg	0.5	< 0.50			< 0.50				< 0.50
1,4-Dichlorobenzene	N	2790	mg/kg	0.5	< 0.50			< 0.50				< 0.50
1,2-Dichlorobenzene	N	2790	mg/kg	0.5	< 0.50			< 0.50				< 0.50
2-Methylphenol	N	2790	mg/kg	0.5	< 0.50			< 0.50				< 0.50
Bis(2-Chloroisopropyl)Ether	N	2790	mg/kg	0.5	< 0.50			< 0.50				< 0.50
Hexachloroethane	N	2790	mg/kg	0.5	< 0.50			< 0.50				< 0.50
N-Nitrosodi-n-propylamine	N	2790	mg/kg	0.5	< 0.50			< 0.50				< 0.50
4-Methylphenol	N	2790	mg/kg	0.5	< 0.50			< 0.50				< 0.50
Nitrobenzene	N	2790	mg/kg	0.5	< 0.50			< 0.50				< 0.50
Isophorone	N	2790	mg/kg	0.5	< 0.50			< 0.50				< 0.50

**Project: 15-0645.02 - Corby**

Client: Delta Simons	Chemtest Job No.:		15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519
Quotation No.: Q15-04536	Chemtest Sample ID.:		187843	187844	187845	187846	187847	187848	187849	187850	187851	187852
Order No.: DS26055	Client Sample Ref.:		Gravel	Clay	Clay	Gravel	Clay	Sand	Clay	Clay	Gravel	Sand
	Client Sample ID.:		DS107a	DS107a	DS107a	DS111	DS111	DS109	DS109	DS110	DS110	DS112
	Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):		0.08	0.9	2.3	0.08	1.3	0.1	2.2	1.6	1.8	0.4
	Bottom Depth(m):		0.11	1.0	2.7	0.1	1.5	0.2	2.5	1.8	2.1	0.5
	Date Sampled:		01-Sep-15	01-Sep-15	01-Sep-15	02-Sep-15	02-Sep-15	02-Sep-15	02-Sep-15	02-Sep-15	02-Sep-15	02-Sep-15
Determinand	Accred.	SOP	Units	LOD								
2-Nitrophenol	N	2790	mg/kg	0.5	< 0.50			< 0.50			< 0.50	
2,4-Dimethylphenol	N	2790	mg/kg	0.5	< 0.50			< 0.50			< 0.50	
Bis(2-Chloroethoxy)Methane	N	2790	mg/kg	0.5	< 0.50			< 0.50			< 0.50	
2,4-Dichlorophenol	N	2790	mg/kg	0.5	< 0.50			< 0.50			< 0.50	
1,2,4-Trichlorobenzene	N	2790	mg/kg	0.5	< 0.50			< 0.50			< 0.50	
Naphthalene	N	2790	mg/kg	0.5	< 0.50			< 0.50			< 0.50	
4-Chloroaniline	N	2790	mg/kg	0.5	< 0.50			< 0.50			< 0.50	
Hexachlorobutadiene	N	2790	mg/kg	0.5	< 0.50			< 0.50			< 0.50	
4-Chloro-3-Methylphenol	N	2790	mg/kg	0.5	< 0.50			< 0.50			< 0.50	
2-Methylnaphthalene	N	2790	mg/kg	0.5	< 0.50			< 0.50			< 0.50	
4-Nitrophenol	N	2790	mg/kg	0.5	< 0.50			< 0.50			< 0.50	
Hexachlorocyclopentadiene	N	2790	mg/kg	0.5	< 0.50			< 0.50			< 0.50	
2,4,6-Trichlorophenol	N	2790	mg/kg	0.5	< 0.50			< 0.50			< 0.50	
2,4,5-Trichlorophenol	N	2790	mg/kg	0.5	< 0.50			< 0.50			< 0.50	
2-Chloronaphthalene	N	2790	mg/kg	0.5	< 0.50			< 0.50			< 0.50	
2-Nitroaniline	N	2790	mg/kg	0.5	< 0.50			< 0.50			< 0.50	
Acenaphthylene	N	2790	mg/kg	0.5	< 0.50			< 0.50			< 0.50	
Dimethylphthalate	N	2790	mg/kg	0.5	< 0.50			< 0.50			< 0.50	
2,6-Dinitrotoluene	N	2790	mg/kg	0.5	< 0.50			< 0.50			< 0.50	
Acenaphthene	N	2790	mg/kg	0.5	< 0.50			< 0.50			< 0.50	
3-Nitroaniline	N	2790	mg/kg	0.5	< 0.50			< 0.50			< 0.50	
Dibenzofuran	N	2790	mg/kg	0.5	< 0.50			< 0.50			< 0.50	
4-Chlorophenylphenylether	N	2790	mg/kg	0.5	< 0.50			< 0.50			< 0.50	
2,4-Dinitrotoluene	N	2790	mg/kg	0.5	< 0.50			< 0.50			< 0.50	
Fluorene	N	2790	mg/kg	0.5	< 0.50			< 0.50			< 0.50	
Diethyl Phthalate	N	2790	mg/kg	0.5	< 0.50			< 0.50			< 0.50	
4-Nitroaniline	N	2790	mg/kg	0.5	< 0.50			< 0.50			< 0.50	
2-Methyl-4,6-Dinitrophenol	N	2790	mg/kg	0.5	< 0.50			< 0.50			< 0.50	
Azobenzene	N	2790	mg/kg	0.5	< 0.50			< 0.50			< 0.50	
4-Bromophenylphenyl Ether	N	2790	mg/kg	0.5	< 0.50			< 0.50			< 0.50	
Hexachlorobenzene	N	2790	mg/kg	0.5	< 0.50			< 0.50			< 0.50	
Pentachlorophenol	N	2790	mg/kg	0.5	< 0.50			< 0.50			< 0.50	
Phenanthrene	N	2790	mg/kg	0.5	< 0.50			< 0.50			< 0.50	

## Results - Soil

**Project: 15-0645.02 - Corby**

Client: Delta Simons	<b>Chemtest Job No.:</b>		15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519
Quotation No.: Q15-04536	<b>Chemtest Sample ID.:</b>		187843	187844	187845	187846	187847	187848	187849	187850	187851	187852
Order No.: DS26055	<b>Client Sample Ref.:</b>		Gravel	Clay	Clay	Gravel	Clay	Sand	Clay	Clay	Gravel	Sand
	<b>Client Sample ID.:</b>		DS107a	DS107a	DS107a	DS111	DS111	DS109	DS109	DS110	DS110	DS112
	<b>Sample Type:</b>		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<b>Top Depth (m):</b>		0.08	0.9	2.3	0.08	1.3	0.1	2.2	1.6	1.8	0.4
	<b>Bottom Depth(m):</b>		0.11	1.0	2.7	0.1	1.5	0.2	2.5	1.8	2.1	0.5
	<b>Date Sampled:</b>		01-Sep-15	01-Sep-15	01-Sep-15	02-Sep-15	02-Sep-15	02-Sep-15	02-Sep-15	02-Sep-15	02-Sep-15	02-Sep-15
<b>Determinand</b>	<b>Accred.</b>	<b>SOP</b>	<b>Units</b>	<b>LOD</b>								
Anthracene	N	2790	mg/kg	0.5	< 0.50			< 0.50			< 0.50	
Carbazole	N	2790	mg/kg	0.5	< 0.50			< 0.50			< 0.50	
Di-N-Butyl Phthalate	N	2790	mg/kg	0.5	< 0.50			< 0.50			< 0.50	
Fluoranthene	N	2790	mg/kg	0.5	< 0.50			< 0.50			< 0.50	
Pyrene	N	2790	mg/kg	0.5	< 0.50			< 0.50			< 0.50	
Butylbenzyl Phthalate	N	2790	mg/kg	0.5	< 0.50			< 0.50			< 0.50	
Benzo[a]anthracene	N	2790	mg/kg	0.5	< 0.50			< 0.50			< 0.50	
Chrysene	N	2790	mg/kg	0.5	< 0.50			< 0.50			< 0.50	
Bis(2-Ethylhexyl)Phthalate	N	2790	mg/kg	0.5	< 0.50			< 0.50			< 0.50	
Di-N-Octyl Phthalate	N	2790	mg/kg	0.5	< 0.50			< 0.50			< 0.50	
Benzo[b]fluoranthene	N	2790	mg/kg	0.5	< 0.50			< 0.50			< 0.50	
Benzo[k]fluoranthene	N	2790	mg/kg	0.5	< 0.50			< 0.50			< 0.50	
Benzo[a]pyrene	N	2790	mg/kg	0.5	< 0.50			< 0.50			< 0.50	
Indeno(1,2,3-c,d)Pyrene	N	2790	mg/kg	0.5	< 0.50			< 0.50			< 0.50	
Dibenz(a,h)Anthracene	N	2790	mg/kg	0.5	< 0.50			< 0.50			< 0.50	
Benzo[g,h,i]perylene	N	2790	mg/kg	0.5	< 0.50			< 0.50			< 0.50	
Total Phenols	M	2920	mg/kg	0.3		< 0.30		< 0.30		< 0.30	< 0.30	< 0.30

## Results - Soil

**Project: 15-0645.02 - Corby**

Client: Delta Simons	Chemtest Job No.:		15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	
Quotation No.: Q15-04536	Chemtest Sample ID.:		187853	187854	187855	187856	187857	187858	187859	187860	187862		
Order No.: DS26055	Client Sample Ref.:		Sand	Clay	Sand	Clay	Sand	Clay	Sand	Clay	Clay		
	Client Sample ID.:		DS107	DS107	DS101	DS101	DS108	DS108	DS113	DS113	DS114		
	Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL		
	Top Depth (m):		0.2	1.3	0.1	0.5	0.1	0.7	0.2	1.8	0.7		
	Bottom Depth(m):		0.3	1.7	0.25	0.8	0.2	1.0	0.3	2.0	1.0		
	Date Sampled:		02-Sep-15	02-Sep-15	02-Sep-15	02-Sep-15	02-Sep-15	02-Sep-15	03-Sep-15	03-Sep-15	03-Sep-15		
Determinand	Accred.	SOP	Units	LOD									
ACM Type	U	2192			-		-		-	-		-	
Asbestos Identification	U	2192			No Asbestos Detected		No Asbestos Detected		No Asbestos Detected	No Asbestos Detected		No Asbestos Detected	
Moisture	N	2030	%	0.02	8.2	14	7.6	16	9.5	15	8.7	14	17
Soil Colour	N				Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material	N				Stones	NONE	Stones	Stones	Stones	Stones	Stones	Stones	Stones
Soil Texture	N				Sand	Loam	Sand	Loam	Sand	Loam	Sand	Loam	Loam
pH	M	2010			8.0			7.4		7.8	8.0		7.7
Boron (Hot Water Soluble)	M	2120	mg/kg	0.4	< 0.40			0.55		0.51	< 0.40		0.65
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.01	1.5			1.1		0.68	1.1		1.2
Total Sulphur	M	2175	%	0.01	0.32			1.1		0.81	0.24		1.1
Cyanide (Free)	M	2300	mg/kg	0.5	< 0.50			< 0.50		< 0.50	< 0.50		< 0.50
Cyanide (Total)	M	2300	mg/kg	0.5	< 0.50			< 0.50		< 0.50	< 0.50		< 0.50
Sulphate (Acid Soluble)	M	2430	%	0.01	0.53			0.36		0.73	0.32		0.67
Arsenic	M	2450	mg/kg	1	28			31		29	36		32
Cadmium	M	2450	mg/kg	0.1	0.15			0.14		0.17	0.25		0.13
Chromium	M	2450	mg/kg	1	7.8			46		35	9.6		36
Copper	M	2450	mg/kg	0.5	1.3			24		23	1.1		24
Mercury	M	2450	mg/kg	0.1	< 0.10			< 0.10		< 0.10	< 0.10		< 0.10
Nickel	M	2450	mg/kg	0.5	3.5			40		35	3.6		38
Lead	M	2450	mg/kg	0.5	1.1			14		13	1.2		13
Selenium	M	2450	mg/kg	0.2	< 0.20			< 0.20		< 0.20	< 0.20		< 0.20
Zinc	M	2450	mg/kg	0.5	11			69		64	11		65
Chromium (Trivalent)	N	2490	mg/kg	5	7.8			46		35	9.6		36
Chromium (Hexavalent)	N	2490	mg/kg	0.5	< 0.50			< 0.50		< 0.50	< 0.50		< 0.50
Fuel Type	N	2670									N/A		
Aliphatic TPH >C5-C6	N	2680	mg/kg	1							< 1.0		
Aliphatic TPH >C6-C8	N	2680	mg/kg	1							< 1.0		
Aliphatic TPH >C8-C10	M	2680	mg/kg	1							< 1.0		
Aliphatic TPH >C10-C12	M	2680	mg/kg	1							< 1.0		
Aliphatic TPH >C12-C16	M	2680	mg/kg	1							< 1.0		
Aliphatic TPH >C16-C21	M	2680	mg/kg	1							< 1.0		
Aliphatic TPH >C21-C35	M	2680	mg/kg	1							< 1.0		

**Project: 15-0645.02 - Corby**

Client: Delta Simons	Chemtest Job No.:		15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519
Quotation No.: Q15-04536	Chemtest Sample ID.:		187853	187854	187855	187856	187857	187858	187859	187860	187862
Order No.: DS26055	Client Sample Ref.:		Sand	Clay	Sand	Clay	Sand	Clay	Sand	Clay	Clay
	Client Sample ID.:		DS107	DS107	DS101	DS101	DS108	DS108	DS113	DS113	DS114
	Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):		0.2	1.3	0.1	0.5	0.1	0.7	0.2	1.8	0.7
	Bottom Depth(m):		0.3	1.7	0.25	0.8	0.2	1.0	0.3	2.0	1.0
	Date Sampled:		02-Sep-15	02-Sep-15	02-Sep-15	02-Sep-15	02-Sep-15	02-Sep-15	03-Sep-15	03-Sep-15	03-Sep-15
Determinand	Accred.	SOP	Units	LOD							
Aliphatic TPH >C35-C44	N	2680	mg/kg	1					< 1.0		
Total Aliphatic Hydrocarbons	M	2680	mg/kg	5					< 5.0		
Aromatic TPH >C5-C7	N	2680	mg/kg	1					< 1.0		
Aromatic TPH >C7-C8	N	2680	mg/kg	1					< 1.0		
Aromatic TPH >C8-C10	M	2680	mg/kg	1					< 1.0		
Aromatic TPH >C10-C12	M	2680	mg/kg	1					< 1.0		
Aromatic TPH >C12-C16	M	2680	mg/kg	1					< 1.0		
Aromatic TPH >C16-C21	M	2680	mg/kg	1					< 1.0		
Aromatic TPH >C21-C35	M	2680	mg/kg	1					< 1.0		
Aromatic TPH >C35-C44	N	2680	mg/kg	1					< 1.0		
Total Aromatic Hydrocarbons	M	2680	mg/kg	5					< 5.0		
Total Petroleum Hydrocarbons	M	2680	mg/kg	10					< 10		
Naphthalene	M	2700	mg/kg	0.1	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	M	2700	mg/kg	0.1	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	M	2700	mg/kg	0.1	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	M	2700	mg/kg	0.1	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	M	2700	mg/kg	0.1	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Anthracene	M	2700	mg/kg	0.1	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	M	2700	mg/kg	0.1	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Pyrene	M	2700	mg/kg	0.1	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]anthracene	M	2700	mg/kg	0.1	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene	M	2700	mg/kg	0.1	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	M	2700	mg/kg	0.1	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	M	2700	mg/kg	0.1	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene	M	2700	mg/kg	0.1	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	M	2700	mg/kg	0.1	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	M	2700	mg/kg	0.1	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	M	2700	mg/kg	0.1	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's	M	2700	mg/kg	2	< 2.0		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Dichlorodifluoromethane	U	2760	µg/kg	1	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloromethane	M	2760	µg/kg	1	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl Chloride	M	2760	µg/kg	1	< 1.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane	M	2760	µg/kg	20	< 20		< 20	< 20	< 20	< 20	< 20

**Project: 15-0645.02 - Corby**

Client: Delta Simons	Chemtest Job No.:					15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519
Quotation No.: Q15-04536	Chemtest Sample ID.:					187853	187854	187855	187856	187857	187858	187859	187860	187862	
Order No.: DS26055	Client Sample Ref.:					Sand	Clay	Sand	Clay	Sand	Clay	Sand	Clay	Clay	
	Client Sample ID.:					DS107	DS107	DS101	DS101	DS108	DS108	DS113	DS113	DS114	
	Sample Type:					SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
	Top Depth (m):					0.2	1.3	0.1	0.5	0.1	0.7	0.2	1.8	0.7	
	Bottom Depth(m):					0.3	1.7	0.25	0.8	0.2	1.0	0.3	2.0	1.0	
	Date Sampled:					02-Sep-15	02-Sep-15	02-Sep-15	02-Sep-15	02-Sep-15	02-Sep-15	03-Sep-15	03-Sep-15	03-Sep-15	
Determinand	Accred.	SOP	Units	LOD											
Chloroethane	U	2760	µg/kg	2	< 2.0			< 2.0		< 2.0	< 2.0	< 2.0		< 2.0	
Trichlorofluoromethane	M	2760	µg/kg	1	< 1.0			< 1.0		< 1.0	< 1.0	< 1.0		< 1.0	
1,1-Dichloroethene	M	2760	µg/kg	1	< 1.0			< 1.0		< 1.0	< 1.0	< 1.0		< 1.0	
Trans 1,2-Dichloroethene	M	2760	µg/kg	1	< 1.0			< 1.0		< 1.0	< 1.0	< 1.0		< 1.0	
1,1-Dichloroethane	M	2760	µg/kg	1	< 1.0			< 1.0		< 1.0	< 1.0	< 1.0		< 1.0	
cis 1,2-Dichloroethene	M	2760	µg/kg	1	< 1.0			< 1.0		< 1.0	< 1.0	< 1.0		< 1.0	
Bromochloromethane	U	2760	µg/kg	5	< 5.0			< 5.0		< 5.0	< 5.0	< 5.0		< 5.0	
Trichloromethane	M	2760	µg/kg	1	< 1.0			< 1.0		< 1.0	< 1.0	< 1.0		< 1.0	
1,1,1-Trichloroethane	M	2760	µg/kg	1	< 1.0			< 1.0		< 1.0	< 1.0	< 1.0		< 1.0	
Tetrachloromethane	M	2760	µg/kg	1	< 1.0			< 1.0		< 1.0	< 1.0	< 1.0		< 1.0	
1,1-Dichloropropene	U	2760	µg/kg	1	< 1.0			< 1.0		< 1.0	< 1.0	< 1.0		< 1.0	
Benzene	M	2760	µg/kg	1	< 1.0			< 1.0		< 1.0	< 1.0	< 1.0		< 1.0	
1,2-Dichloroethane	M	2760	µg/kg	2	< 2.0			< 2.0		< 2.0	< 2.0	< 2.0		< 2.0	
Trichloroethene	M	2760	µg/kg	1	< 1.0			< 1.0		< 1.0	< 1.0	< 1.0		< 1.0	
1,2-Dichloropropane	M	2760	µg/kg	1	< 1.0			< 1.0		< 1.0	< 1.0	< 1.0		< 1.0	
Dibromomethane	M	2760	µg/kg	1	< 1.0			< 1.0		< 1.0	< 1.0	< 1.0		< 1.0	
Bromodichloromethane	M	2760	µg/kg	5	< 5.0			< 5.0		< 5.0	< 5.0	< 5.0		< 5.0	
cis-1,3-Dichloropropene	N	2760	µg/kg	10	< 10			< 10		< 10	< 10	< 10		< 10	
Toluene	M	2760	µg/kg	1	< 1.0			< 1.0		< 1.0	< 1.0	< 1.0		< 1.0	
Trans-1,3-Dichloropropene	N	2760	µg/kg	10	< 10			< 10		< 10	< 10	< 10		< 10	
1,1,2-Trichloroethane	M	2760	µg/kg	10	< 10			< 10		< 10	< 10	< 10		< 10	
Tetrachloroethene	M	2760	µg/kg	1	< 1.0			< 1.0		< 1.0	< 1.0	< 1.0		< 1.0	
1,3-Dichloropropane	U	2760	µg/kg	2	< 2.0			< 2.0		< 2.0	< 2.0	< 2.0		< 2.0	
Dibromochloromethane	U	2760	µg/kg	10	< 10			< 10		< 10	< 10	< 10		< 10	
1,2-Dibromoethane	M	2760	µg/kg	5	< 5.0			< 5.0		< 5.0	< 5.0	< 5.0		< 5.0	
Chlorobenzene	M	2760	µg/kg	1	< 1.0			< 1.0		< 1.0	< 1.0	< 1.0		< 1.0	
1,1,1,2-Tetrachloroethane	M	2760	µg/kg	2	< 2.0			< 2.0		< 2.0	< 2.0	< 2.0		< 2.0	
Ethylbenzene	M	2760	µg/kg	1	< 1.0			< 1.0		< 1.0	< 1.0	< 1.0		< 1.0	
m & p-Xylene	M	2760	µg/kg	1	< 1.0			< 1.0		< 1.0	< 1.0	< 1.0		< 1.0	
o-Xylene	M	2760	µg/kg	1	< 1.0			< 1.0		< 1.0	< 1.0	< 1.0		< 1.0	
Styrene	M	2760	µg/kg	1	< 1.0			< 1.0		< 1.0	< 1.0	< 1.0		< 1.0	
Tribromomethane	U	2760	µg/kg	1	< 1.0			< 1.0		< 1.0	< 1.0	< 1.0		< 1.0	
Isopropylbenzene	M	2760	µg/kg	1	< 1.0			< 1.0		< 1.0	< 1.0	< 1.0		< 1.0	

**Project: 15-0645.02 - Corby**

Client: Delta Simons	Chemtest Job No.:					15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519
Quotation No.: Q15-04536	Chemtest Sample ID.:					187853	187854	187855	187856	187857	187858	187859	187860	187862
Order No.: DS26055	Client Sample Ref.:					Sand	Clay	Sand	Clay	Sand	Clay	Sand	Clay	Clay
	Client Sample ID.:					DS107	DS107	DS101	DS101	DS108	DS108	DS113	DS113	DS114
	Sample Type:					SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):					0.2	1.3	0.1	0.5	0.1	0.7	0.2	1.8	0.7
	Bottom Depth(m):					0.3	1.7	0.25	0.8	0.2	1.0	0.3	2.0	1.0
	Date Sampled:					02-Sep-15	02-Sep-15	02-Sep-15	02-Sep-15	02-Sep-15	02-Sep-15	03-Sep-15	03-Sep-15	03-Sep-15
Determinand	Accred.	SOP	Units	LOD										
Bromobenzene	M	2760	µg/kg	1	< 1.0			< 1.0		< 1.0	< 1.0	< 1.0		< 1.0
1,2,3-Trichloropropane	N	2760	µg/kg	50	< 50			< 50		< 50	< 50	< 50		< 50
N-Propylbenzene	U	2760	µg/kg	1	< 1.0			< 1.0		< 1.0	< 1.0	< 1.0		< 1.0
2-Chlorotoluene	M	2760	µg/kg	1	< 1.0			< 1.0		< 1.0	< 1.0	< 1.0		< 1.0
1,3,5-Trimethylbenzene	M	2760	µg/kg	1	< 1.0			< 1.0		< 1.0	< 1.0	< 1.0		< 1.0
4-Chlorotoluene	U	2760	µg/kg	1	< 1.0			< 1.0		< 1.0	< 1.0	< 1.0		< 1.0
Tert-Butylbenzene	U	2760	µg/kg	1	< 1.0			< 1.0		< 1.0	< 1.0	< 1.0		< 1.0
1,2,4-Trimethylbenzene	M	2760	µg/kg	1	< 1.0			< 1.0		< 1.0	< 1.0	< 1.0		< 1.0
Sec-Butylbenzene	U	2760	µg/kg	1	< 1.0			< 1.0		< 1.0	< 1.0	< 1.0		< 1.0
1,3-Dichlorobenzene	M	2760	µg/kg	1	< 1.0			< 1.0		< 1.0	< 1.0	< 1.0		< 1.0
4-Isopropyltoluene	U	2760	µg/kg	1	< 1.0			< 1.0		< 1.0	< 1.0	< 1.0		< 1.0
1,4-Dichlorobenzene	M	2760	µg/kg	1	< 1.0			< 1.0		< 1.0	< 1.0	< 1.0		< 1.0
N-Butylbenzene	U	2760	µg/kg	1	< 1.0			< 1.0		< 1.0	< 1.0	< 1.0		< 1.0
1,2-Dichlorobenzene	M	2760	µg/kg	1	< 1.0			< 1.0		< 1.0	< 1.0	< 1.0		< 1.0
1,2-Dibromo-3-Chloropropane	U	2760	µg/kg	50	< 50			< 50		< 50	< 50	< 50		< 50
1,2,4-Trichlorobenzene	M	2760	µg/kg	1	< 1.0			< 1.0		< 1.0	< 1.0	< 1.0		< 1.0
Hexachlorobutadiene	U	2760	µg/kg	1	< 1.0			< 1.0		< 1.0	< 1.0	< 1.0		< 1.0
1,2,3-Trichlorobenzene	U	2760	µg/kg	2	< 2.0			< 2.0		< 2.0	< 2.0	< 2.0		< 2.0
Methyl Tert-Butyl Ether	M	2760	µg/kg	1	< 1.0			< 1.0		< 1.0	< 1.0	< 1.0		< 1.0
N-Nitrosodimethylamine	N	2790	mg/kg	0.5		< 0.50	< 0.50		< 0.50				< 0.50	
Phenol	N	2790	mg/kg	0.5		< 0.50	< 0.50		< 0.50				< 0.50	
2-Chlorophenol	N	2790	mg/kg	0.5		< 0.50	< 0.50		< 0.50				< 0.50	
Bis-(2-Chloroethyl)Ether	N	2790	mg/kg	0.5		< 0.50	< 0.50		< 0.50				< 0.50	
1,3-Dichlorobenzene	N	2790	mg/kg	0.5		< 0.50	< 0.50		< 0.50				< 0.50	
1,4-Dichlorobenzene	N	2790	mg/kg	0.5		< 0.50	< 0.50		< 0.50				< 0.50	
1,2-Dichlorobenzene	N	2790	mg/kg	0.5		< 0.50	< 0.50		< 0.50				< 0.50	
2-Methylphenol	N	2790	mg/kg	0.5		< 0.50	< 0.50		< 0.50				< 0.50	
Bis(2-Chloroisopropyl)Ether	N	2790	mg/kg	0.5		< 0.50	< 0.50		< 0.50				< 0.50	
Hexachloroethane	N	2790	mg/kg	0.5		< 0.50	< 0.50		< 0.50				< 0.50	
N-Nitrosodi-n-propylamine	N	2790	mg/kg	0.5		< 0.50	< 0.50		< 0.50				< 0.50	
4-Methylphenol	N	2790	mg/kg	0.5		< 0.50	< 0.50		< 0.50				< 0.50	
Nitrobenzene	N	2790	mg/kg	0.5		< 0.50	< 0.50		< 0.50				< 0.50	
Isophorone	N	2790	mg/kg	0.5		< 0.50	< 0.50		< 0.50				< 0.50	

**Project: 15-0645.02 - Corby**

Client: Delta Simons	Chemtest Job No.:				15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519
Quotation No.: Q15-04536	Chemtest Sample ID.:				187853	187854	187855	187856	187857	187858	187859	187860
Order No.: DS26055	Client Sample Ref.:				Sand	Clay	Sand	Clay	Sand	Clay	Sand	Clay
	Client Sample ID.:				DS107	DS107	DS101	DS101	DS108	DS108	DS113	DS113
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				0.2	1.3	0.1	0.5	0.1	0.7	0.2	1.8
	Bottom Depth(m):				0.3	1.7	0.25	0.8	0.2	1.0	0.3	2.0
	Date Sampled:				02-Sep-15	02-Sep-15	02-Sep-15	02-Sep-15	02-Sep-15	02-Sep-15	03-Sep-15	03-Sep-15
Determinand	Accred.	SOP	Units	LOD								
2-Nitrophenol	N	2790	mg/kg	0.5		< 0.50	< 0.50		< 0.50		< 0.50	
2,4-Dimethylphenol	N	2790	mg/kg	0.5		< 0.50	< 0.50		< 0.50		< 0.50	
Bis(2-Chloroethoxy)Methane	N	2790	mg/kg	0.5		< 0.50	< 0.50		< 0.50		< 0.50	
2,4-Dichlorophenol	N	2790	mg/kg	0.5		< 0.50	< 0.50		< 0.50		< 0.50	
1,2,4-Trichlorobenzene	N	2790	mg/kg	0.5		< 0.50	< 0.50		< 0.50		< 0.50	
Naphthalene	N	2790	mg/kg	0.5		< 0.50	< 0.50		< 0.50		< 0.50	
4-Chloroaniline	N	2790	mg/kg	0.5		< 0.50	< 0.50		< 0.50		< 0.50	
Hexachlorobutadiene	N	2790	mg/kg	0.5		< 0.50	< 0.50		< 0.50		< 0.50	
4-Chloro-3-Methylphenol	N	2790	mg/kg	0.5		< 0.50	< 0.50		< 0.50		< 0.50	
2-Methylnaphthalene	N	2790	mg/kg	0.5		< 0.50	< 0.50		< 0.50		< 0.50	
4-Nitrophenol	N	2790	mg/kg	0.5		< 0.50	< 0.50		< 0.50		< 0.50	
Hexachlorocyclopentadiene	N	2790	mg/kg	0.5		< 0.50	< 0.50		< 0.50		< 0.50	
2,4,6-Trichlorophenol	N	2790	mg/kg	0.5		< 0.50	< 0.50		< 0.50		< 0.50	
2,4,5-Trichlorophenol	N	2790	mg/kg	0.5		< 0.50	< 0.50		< 0.50		< 0.50	
2-Chloronaphthalene	N	2790	mg/kg	0.5		< 0.50	< 0.50		< 0.50		< 0.50	
2-Nitroaniline	N	2790	mg/kg	0.5		< 0.50	< 0.50		< 0.50		< 0.50	
Acenaphthylene	N	2790	mg/kg	0.5		< 0.50	< 0.50		< 0.50		< 0.50	
Dimethylphthalate	N	2790	mg/kg	0.5		< 0.50	< 0.50		< 0.50		< 0.50	
2,6-Dinitrotoluene	N	2790	mg/kg	0.5		< 0.50	< 0.50		< 0.50		< 0.50	
Acenaphthene	N	2790	mg/kg	0.5		< 0.50	< 0.50		< 0.50		< 0.50	
3-Nitroaniline	N	2790	mg/kg	0.5		< 0.50	< 0.50		< 0.50		< 0.50	
Dibenzofuran	N	2790	mg/kg	0.5		< 0.50	< 0.50		< 0.50		< 0.50	
4-Chlorophenylphenylether	N	2790	mg/kg	0.5		< 0.50	< 0.50		< 0.50		< 0.50	
2,4-Dinitrotoluene	N	2790	mg/kg	0.5		< 0.50	< 0.50		< 0.50		< 0.50	
Fluorene	N	2790	mg/kg	0.5		< 0.50	< 0.50		< 0.50		< 0.50	
Diethyl Phthalate	N	2790	mg/kg	0.5		< 0.50	< 0.50		< 0.50		< 0.50	
4-Nitroaniline	N	2790	mg/kg	0.5		< 0.50	< 0.50		< 0.50		< 0.50	
2-Methyl-4,6-Dinitrophenol	N	2790	mg/kg	0.5		< 0.50	< 0.50		< 0.50		< 0.50	
Azobenzene	N	2790	mg/kg	0.5		< 0.50	< 0.50		< 0.50		< 0.50	
4-Bromophenylphenyl Ether	N	2790	mg/kg	0.5		< 0.50	< 0.50		< 0.50		< 0.50	
Hexachlorobenzene	N	2790	mg/kg	0.5		< 0.50	< 0.50		< 0.50		< 0.50	
Pentachlorophenol	N	2790	mg/kg	0.5		< 0.50	< 0.50		< 0.50		< 0.50	
Phenanthrene	N	2790	mg/kg	0.5		< 0.50	< 0.50		< 0.50		< 0.50	



**Project: 15-0645.02 - Corby**

Client: Delta Simons	<b>Chemtest Job No.:</b>				15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519	15-20519
Quotation No.: Q15-04536	<b>Chemtest Sample ID.:</b>				187853	187854	187855	187856	187857	187858	187859	187860	187862	
Order No.: DS26055	<b>Client Sample Ref.:</b>				Sand	Clay	Sand	Clay	Sand	Clay	Sand	Clay	Clay	
	<b>Client Sample ID.:</b>				DS107	DS107	DS101	DS101	DS108	DS108	DS113	DS113	DS114	
	<b>Sample Type:</b>				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
	<b>Top Depth (m):</b>				0.2	1.3	0.1	0.5	0.1	0.7	0.2	1.8	0.7	
	<b>Bottom Depth(m):</b>				0.3	1.7	0.25	0.8	0.2	1.0	0.3	2.0	1.0	
	<b>Date Sampled:</b>				02-Sep-15	02-Sep-15	02-Sep-15	02-Sep-15	02-Sep-15	02-Sep-15	03-Sep-15	03-Sep-15	03-Sep-15	
<b>Determinand</b>	<b>Accred.</b>	<b>SOP</b>	<b>Units</b>	<b>LOD</b>										
Anthracene	N	2790	mg/kg	0.5		< 0.50	< 0.50		< 0.50			< 0.50		
Carbazole	N	2790	mg/kg	0.5		< 0.50	< 0.50		< 0.50			< 0.50		
Di-N-Butyl Phthalate	N	2790	mg/kg	0.5		< 0.50	< 0.50		< 0.50			< 0.50		
Fluoranthene	N	2790	mg/kg	0.5		< 0.50	< 0.50		< 0.50			< 0.50		
Pyrene	N	2790	mg/kg	0.5		< 0.50	< 0.50		< 0.50			< 0.50		
Butylbenzyl Phthalate	N	2790	mg/kg	0.5		< 0.50	< 0.50		< 0.50			< 0.50		
Benzo[a]anthracene	N	2790	mg/kg	0.5		< 0.50	< 0.50		< 0.50			< 0.50		
Chrysene	N	2790	mg/kg	0.5		< 0.50	< 0.50		< 0.50			< 0.50		
Bis(2-Ethylhexyl)Phthalate	N	2790	mg/kg	0.5		< 0.50	< 0.50		< 0.50			< 0.50		
Di-N-Octyl Phthalate	N	2790	mg/kg	0.5		< 0.50	< 0.50		< 0.50			< 0.50		
Benzo[b]fluoranthene	N	2790	mg/kg	0.5		< 0.50	< 0.50		< 0.50			< 0.50		
Benzo[k]fluoranthene	N	2790	mg/kg	0.5		< 0.50	< 0.50		< 0.50			< 0.50		
Benzo[a]pyrene	N	2790	mg/kg	0.5		< 0.50	< 0.50		< 0.50			< 0.50		
Indeno(1,2,3-c,d)Pyrene	N	2790	mg/kg	0.5		< 0.50	< 0.50		< 0.50			< 0.50		
Dibenz(a,h)Anthracene	N	2790	mg/kg	0.5		< 0.50	< 0.50		< 0.50			< 0.50		
Benzo[g,h,i]perylene	N	2790	mg/kg	0.5		< 0.50	< 0.50		< 0.50			< 0.50		
Total Phenols	M	2920	mg/kg	0.3	< 0.30			< 0.30		< 0.30	< 0.30		< 0.30	

**Project: 15-0645.02 - Corby**

Client: Delta Simons	Chemtest Job No.:		15-20519	15-20519	15-20519	15-20519	15-20519
Quotation No.: Q15-04536	Chemtest Sample ID.:		187864	187865	187866	187869	187877
Order No.: DS26055	Client Sample Ref.:		Clay	Sand	Clay	BH108	BH110
	Client Sample ID.:		BH108	DS116	DS116	ES2	ES
	Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):		2.5	0.2	0.3	8.0	2.5
	Bottom Depth(m):		3.0	0.3	0.7	8.45	3.0
	Date Sampled:		03-Sep-15	03-Sep-15	03-Sep-15	01-Sep-15	03-Sep-15
Determinand	Accred.	SOP	Units	LOD			
ACM Type	U	2192			-	-	-
Asbestos Identification	U	2192			No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Moisture	N	2030	%	0.02	15	7.9	15
Soil Colour	N				Brown	Brown	Brown
Other Material	N				Stones	Stones	NONE
Soil Texture	N				Loam	Sand	Loam
pH	M	2010			7.7	8.1	7.9
Boron (Hot Water Soluble)	M	2120	mg/kg	0.4	0.55	< 0.40	2.0
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.01	0.91	0.93	0.66
Total Sulphur	M	2175	%	0.01	1.0	0.22	0.24
Cyanide (Free)	M	2300	mg/kg	0.5	< 0.50	< 0.50	< 0.50
Cyanide (Total)	M	2300	mg/kg	0.5	< 0.50	< 0.50	2.3
Sulphate (Acid Soluble)	M	2430	%	0.01	0.97	0.34	0.21
Arsenic	M	2450	mg/kg	1	31	18	49
Cadmium	M	2450	mg/kg	0.1	0.22	0.15	0.49
Chromium	M	2450	mg/kg	1	37	5.2	59
Copper	M	2450	mg/kg	0.5	23	< 0.50	15
Mercury	M	2450	mg/kg	0.1	0.19	< 0.10	< 0.10
Nickel	M	2450	mg/kg	0.5	38	1.6	29
Lead	M	2450	mg/kg	0.5	22	< 0.50	220
Selenium	M	2450	mg/kg	0.2	< 0.20	< 0.20	0.50
Zinc	M	2450	mg/kg	0.5	77	4.1	830
Chromium (Trivalent)	N	2490	mg/kg	5	37	5.2	59
Chromium (Hexavalent)	N	2490	mg/kg	0.5	< 0.50	< 0.50	< 0.50
Fuel Type	N	2670			N/A	N/A	
Aliphatic TPH >C5-C6	N	2680	mg/kg	1	< 1.0	< 1.0	
Aliphatic TPH >C6-C8	N	2680	mg/kg	1	< 1.0	< 1.0	
Aliphatic TPH >C8-C10	M	2680	mg/kg	1	< 1.0	< 1.0	
Aliphatic TPH >C10-C12	M	2680	mg/kg	1	< 1.0	< 1.0	
Aliphatic TPH >C12-C16	M	2680	mg/kg	1	< 1.0	< 1.0	
Aliphatic TPH >C16-C21	M	2680	mg/kg	1	< 1.0	< 1.0	
Aliphatic TPH >C21-C35	M	2680	mg/kg	1	< 1.0	< 1.0	

**Project: 15-0645.02 - Corby**

Client: Delta Simons	Chemtest Job No.:					15-20519	15-20519	15-20519	15-20519	15-20519
Quotation No.: Q15-04536	Chemtest Sample ID.:					187864	187865	187866	187869	187877
Order No.: DS26055	Client Sample Ref.:					Clay	Sand	Clay	BH108	BH110
	Client Sample ID.:					BH108	DS116	DS116	ES2	ES
	Sample Type:					SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):					2.5	0.2	0.3	8.0	2.5
	Bottom Depth(m):					3.0	0.3	0.7	8.45	3.0
	Date Sampled:					03-Sep-15	03-Sep-15	03-Sep-15	01-Sep-15	03-Sep-15
Determinand	Accred.	SOP	Units	LOD						
Aliphatic TPH >C35-C44	N	2680	mg/kg	1	< 1.0	< 1.0				
Total Aliphatic Hydrocarbons	M	2680	mg/kg	5	< 5.0	< 5.0				
Aromatic TPH >C5-C7	N	2680	mg/kg	1	< 1.0	< 1.0				
Aromatic TPH >C7-C8	N	2680	mg/kg	1	< 1.0	< 1.0				
Aromatic TPH >C8-C10	M	2680	mg/kg	1	< 1.0	< 1.0				
Aromatic TPH >C10-C12	M	2680	mg/kg	1	< 1.0	< 1.0				
Aromatic TPH >C12-C16	M	2680	mg/kg	1	< 1.0	< 1.0				
Aromatic TPH >C16-C21	M	2680	mg/kg	1	< 1.0	< 1.0				
Aromatic TPH >C21-C35	M	2680	mg/kg	1	< 1.0	< 1.0				
Aromatic TPH >C35-C44	N	2680	mg/kg	1	< 1.0	< 1.0				
Total Aromatic Hydrocarbons	M	2680	mg/kg	5	< 5.0	< 5.0				
Total Petroleum Hydrocarbons	M	2680	mg/kg	10	< 10	< 10				
Naphthalene	M	2700	mg/kg	0.1	< 0.10	< 0.10		< 0.10	< 0.10	
Acenaphthylene	M	2700	mg/kg	0.1	< 0.10	< 0.10		< 0.10	< 0.10	
Acenaphthene	M	2700	mg/kg	0.1	< 0.10	< 0.10		< 0.10	< 0.10	
Fluorene	M	2700	mg/kg	0.1	< 0.10	< 0.10		< 0.10	< 0.10	
Phenanthrene	M	2700	mg/kg	0.1	< 0.10	< 0.10		< 0.10	< 0.10	
Anthracene	M	2700	mg/kg	0.1	< 0.10	< 0.10		< 0.10	< 0.10	
Fluoranthene	M	2700	mg/kg	0.1	0.59	< 0.10		< 0.10	< 0.10	
Pyrene	M	2700	mg/kg	0.1	0.54	< 0.10		< 0.10	< 0.10	
Benzo[a]anthracene	M	2700	mg/kg	0.1	0.29	< 0.10		< 0.10	< 0.10	
Chrysene	M	2700	mg/kg	0.1	0.47	< 0.10		< 0.10	< 0.10	
Benzo[b]fluoranthene	M	2700	mg/kg	0.1	< 0.10	< 0.10		< 0.10	< 0.10	
Benzo[k]fluoranthene	M	2700	mg/kg	0.1	< 0.10	< 0.10		< 0.10	< 0.10	
Benzo[a]pyrene	M	2700	mg/kg	0.1	< 0.10	< 0.10		< 0.10	< 0.10	
Indeno(1,2,3-c,d)Pyrene	M	2700	mg/kg	0.1	< 0.10	< 0.10		< 0.10	< 0.10	
Dibenz(a,h)Anthracene	M	2700	mg/kg	0.1	< 0.10	< 0.10		< 0.10	< 0.10	
Benzo[g,h,i]perylene	M	2700	mg/kg	0.1	< 0.10	< 0.10		< 0.10	< 0.10	
Total Of 16 PAH's	M	2700	mg/kg	2	< 2.0	< 2.0		< 2.0	< 2.0	
Dichlorodifluoromethane	U	2760	µg/kg	1	< 1.0	< 1.0		< 1.0	< 1.0	
Chloromethane	M	2760	µg/kg	1	< 1.0	< 1.0		< 1.0	< 1.0	
Vinyl Chloride	M	2760	µg/kg	1	< 1.0	< 1.0		< 1.0	< 1.0	
Bromomethane	M	2760	µg/kg	20	< 20	< 20		< 20	< 20	

**Project: 15-0645.02 - Corby**

Client: Delta Simons	Chemtest Job No.:					15-20519	15-20519	15-20519	15-20519	15-20519
Quotation No.: Q15-04536	Chemtest Sample ID.:					187864	187865	187866	187869	187877
Order No.: DS26055	Client Sample Ref.:					Clay	Sand	Clay	BH108	BH110
	Client Sample ID.:					BH108	DS116	DS116	ES2	ES
	Sample Type:					SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):					2.5	0.2	0.3	8.0	2.5
	Bottom Depth(m):					3.0	0.3	0.7	8.45	3.0
	Date Sampled:					03-Sep-15	03-Sep-15	03-Sep-15	01-Sep-15	03-Sep-15
Determinand	Accred.	SOP	Units	LOD						
Chloroethane	U	2760	µg/kg	2	< 2.0	< 2.0		< 2.0	< 2.0	
Trichlorofluoromethane	M	2760	µg/kg	1	< 1.0	< 1.0		< 1.0	< 1.0	
1,1-Dichloroethene	M	2760	µg/kg	1	< 1.0	< 1.0		< 1.0	< 1.0	
Trans 1,2-Dichloroethene	M	2760	µg/kg	1	< 1.0	< 1.0		< 1.0	< 1.0	
1,1-Dichloroethane	M	2760	µg/kg	1	< 1.0	< 1.0		< 1.0	< 1.0	
cis 1,2-Dichloroethene	M	2760	µg/kg	1	< 1.0	< 1.0		< 1.0	< 1.0	
Bromochloromethane	U	2760	µg/kg	5	< 5.0	< 5.0		< 5.0	< 5.0	
Trichloromethane	M	2760	µg/kg	1	< 1.0	< 1.0		< 1.0	< 1.0	
1,1,1-Trichloroethane	M	2760	µg/kg	1	< 1.0	< 1.0		< 1.0	< 1.0	
Tetrachloromethane	M	2760	µg/kg	1	< 1.0	< 1.0		< 1.0	< 1.0	
1,1-Dichloropropene	U	2760	µg/kg	1	< 1.0	< 1.0		< 1.0	< 1.0	
Benzene	M	2760	µg/kg	1	< 1.0	< 1.0		< 1.0	< 1.0	
1,2-Dichloroethane	M	2760	µg/kg	2	< 2.0	< 2.0		< 2.0	< 2.0	
Trichloroethene	M	2760	µg/kg	1	< 1.0	< 1.0		< 1.0	< 1.0	
1,2-Dichloropropane	M	2760	µg/kg	1	< 1.0	< 1.0		< 1.0	< 1.0	
Dibromomethane	M	2760	µg/kg	1	< 1.0	< 1.0		< 1.0	< 1.0	
Bromodichloromethane	M	2760	µg/kg	5	< 5.0	< 5.0		< 5.0	< 5.0	
cis-1,3-Dichloropropene	N	2760	µg/kg	10	< 10	< 10		< 10	< 10	
Toluene	M	2760	µg/kg	1	< 1.0	< 1.0		< 1.0	< 1.0	
Trans-1,3-Dichloropropene	N	2760	µg/kg	10	< 10	< 10		< 10	< 10	
1,1,2-Trichloroethane	M	2760	µg/kg	10	< 10	< 10		< 10	< 10	
Tetrachloroethene	M	2760	µg/kg	1	< 1.0	< 1.0		< 1.0	< 1.0	
1,3-Dichloropropane	U	2760	µg/kg	2	< 2.0	< 2.0		< 2.0	< 2.0	
Dibromochloromethane	U	2760	µg/kg	10	< 10	< 10		< 10	< 10	
1,2-Dibromoethane	M	2760	µg/kg	5	< 5.0	< 5.0		< 5.0	< 5.0	
Chlorobenzene	M	2760	µg/kg	1	< 1.0	< 1.0		< 1.0	< 1.0	
1,1,1,2-Tetrachloroethane	M	2760	µg/kg	2	< 2.0	< 2.0		< 2.0	< 2.0	
Ethylbenzene	M	2760	µg/kg	1	< 1.0	< 1.0		< 1.0	< 1.0	
m & p-Xylene	M	2760	µg/kg	1	< 1.0	< 1.0		< 1.0	< 1.0	
o-Xylene	M	2760	µg/kg	1	< 1.0	< 1.0		< 1.0	< 1.0	
Styrene	M	2760	µg/kg	1	< 1.0	< 1.0		< 1.0	< 1.0	
Tribromomethane	U	2760	µg/kg	1	< 1.0	< 1.0		< 1.0	< 1.0	
Isopropylbenzene	M	2760	µg/kg	1	< 1.0	< 1.0		< 1.0	< 1.0	

**Project: 15-0645.02 - Corby**

Client: Delta Simons	Chemtest Job No.:					15-20519	15-20519	15-20519	15-20519	15-20519
Quotation No.: Q15-04536	Chemtest Sample ID.:					187864	187865	187866	187869	187877
Order No.: DS26055	Client Sample Ref.:					Clay	Sand	Clay	BH108	BH110
	Client Sample ID.:					BH108	DS116	DS116	ES2	ES
	Sample Type:					SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):					2.5	0.2	0.3	8.0	2.5
	Bottom Depth(m):					3.0	0.3	0.7	8.45	3.0
	Date Sampled:					03-Sep-15	03-Sep-15	03-Sep-15	01-Sep-15	03-Sep-15
Determinand	Accred.	SOP	Units	LOD						
Bromobenzene	M	2760	µg/kg	1	< 1.0	< 1.0		< 1.0	< 1.0	
1,2,3-Trichloropropane	N	2760	µg/kg	50	< 50	< 50		< 50	< 50	
N-Propylbenzene	U	2760	µg/kg	1	< 1.0	< 1.0		< 1.0	< 1.0	
2-Chlorotoluene	M	2760	µg/kg	1	< 1.0	< 1.0		< 1.0	< 1.0	
1,3,5-Trimethylbenzene	M	2760	µg/kg	1	< 1.0	< 1.0		< 1.0	< 1.0	
4-Chlorotoluene	U	2760	µg/kg	1	< 1.0	< 1.0		< 1.0	< 1.0	
Tert-Butylbenzene	U	2760	µg/kg	1	< 1.0	< 1.0		< 1.0	< 1.0	
1,2,4-Trimethylbenzene	M	2760	µg/kg	1	< 1.0	< 1.0		< 1.0	< 1.0	
Sec-Butylbenzene	U	2760	µg/kg	1	< 1.0	< 1.0		< 1.0	< 1.0	
1,3-Dichlorobenzene	M	2760	µg/kg	1	< 1.0	< 1.0		< 1.0	< 1.0	
4-Isopropyltoluene	U	2760	µg/kg	1	< 1.0	< 1.0		< 1.0	< 1.0	
1,4-Dichlorobenzene	M	2760	µg/kg	1	< 1.0	< 1.0		< 1.0	< 1.0	
N-Butylbenzene	U	2760	µg/kg	1	< 1.0	< 1.0		< 1.0	< 1.0	
1,2-Dichlorobenzene	M	2760	µg/kg	1	< 1.0	< 1.0		< 1.0	< 1.0	
1,2-Dibromo-3-Chloropropane	U	2760	µg/kg	50	< 50	< 50		< 50	< 50	
1,2,4-Trichlorobenzene	M	2760	µg/kg	1	< 1.0	< 1.0		< 1.0	< 1.0	
Hexachlorobutadiene	U	2760	µg/kg	1	< 1.0	< 1.0		< 1.0	< 1.0	
1,2,3-Trichlorobenzene	U	2760	µg/kg	2	< 2.0	< 2.0		< 2.0	< 2.0	
Methyl Tert-Butyl Ether	M	2760	µg/kg	1	< 1.0	< 1.0		< 1.0	< 1.0	
N-Nitrosodimethylamine	N	2790	mg/kg	0.5			< 0.50			
Phenol	N	2790	mg/kg	0.5			< 0.50			
2-Chlorophenol	N	2790	mg/kg	0.5			< 0.50			
Bis-(2-Chloroethyl)Ether	N	2790	mg/kg	0.5			< 0.50			
1,3-Dichlorobenzene	N	2790	mg/kg	0.5			< 0.50			
1,4-Dichlorobenzene	N	2790	mg/kg	0.5			< 0.50			
1,2-Dichlorobenzene	N	2790	mg/kg	0.5			< 0.50			
2-Methylphenol	N	2790	mg/kg	0.5			< 0.50			
Bis(2-Chloroisopropyl)Ether	N	2790	mg/kg	0.5			< 0.50			
Hexachloroethane	N	2790	mg/kg	0.5			< 0.50			
N-Nitrosodi-n-propylamine	N	2790	mg/kg	0.5			< 0.50			
4-Methylphenol	N	2790	mg/kg	0.5			< 0.50			
Nitrobenzene	N	2790	mg/kg	0.5			< 0.50			
Isophorone	N	2790	mg/kg	0.5			< 0.50			

**Project: 15-0645.02 - Corby**

Client: Delta Simons	Chemtest Job No.:				
Quotation No.: Q15-04536	15-20519	15-20519	15-20519	15-20519	15-20519
Order No.: DS26055	Chemtest Sample ID.: 187864	187865	187866	187869	187877
	Client Sample Ref.: Clay	Sand	Clay	BH108	BH110
	Client Sample ID.: BH108	DS116	DS116	ES2	ES
	Sample Type:	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):	2.5	0.2	0.3	8.0
	Bottom Depth(m):	3.0	0.3	0.7	8.45
	Date Sampled:	03-Sep-15	03-Sep-15	03-Sep-15	01-Sep-15
	03-Sep-15				03-Sep-15
Determinand	Accred.	SOP	Units	LOD	
2-Nitrophenol	N	2790	mg/kg	0.5	< 0.50
2,4-Dimethylphenol	N	2790	mg/kg	0.5	< 0.50
Bis(2-Chloroethoxy)Methane	N	2790	mg/kg	0.5	< 0.50
2,4-Dichlorophenol	N	2790	mg/kg	0.5	< 0.50
1,2,4-Trichlorobenzene	N	2790	mg/kg	0.5	< 0.50
Naphthalene	N	2790	mg/kg	0.5	< 0.50
4-Chloroaniline	N	2790	mg/kg	0.5	< 0.50
Hexachlorobutadiene	N	2790	mg/kg	0.5	< 0.50
4-Chloro-3-Methylphenol	N	2790	mg/kg	0.5	< 0.50
2-Methylnaphthalene	N	2790	mg/kg	0.5	< 0.50
4-Nitrophenol	N	2790	mg/kg	0.5	< 0.50
Hexachlorocyclopentadiene	N	2790	mg/kg	0.5	< 0.50
2,4,6-Trichlorophenol	N	2790	mg/kg	0.5	< 0.50
2,4,5-Trichlorophenol	N	2790	mg/kg	0.5	< 0.50
2-Chloronaphthalene	N	2790	mg/kg	0.5	< 0.50
2-Nitroaniline	N	2790	mg/kg	0.5	< 0.50
Acenaphthylene	N	2790	mg/kg	0.5	< 0.50
Dimethylphthalate	N	2790	mg/kg	0.5	< 0.50
2,6-Dinitrotoluene	N	2790	mg/kg	0.5	< 0.50
Acenaphthene	N	2790	mg/kg	0.5	< 0.50
3-Nitroaniline	N	2790	mg/kg	0.5	< 0.50
Dibenzofuran	N	2790	mg/kg	0.5	< 0.50
4-Chlorophenylphenylether	N	2790	mg/kg	0.5	< 0.50
2,4-Dinitrotoluene	N	2790	mg/kg	0.5	< 0.50
Fluorene	N	2790	mg/kg	0.5	< 0.50
Diethyl Phthalate	N	2790	mg/kg	0.5	< 0.50
4-Nitroaniline	N	2790	mg/kg	0.5	< 0.50
2-Methyl-4,6-Dinitrophenol	N	2790	mg/kg	0.5	< 0.50
Azobenzene	N	2790	mg/kg	0.5	< 0.50
4-Bromophenylphenyl Ether	N	2790	mg/kg	0.5	< 0.50
Hexachlorobenzene	N	2790	mg/kg	0.5	< 0.50
Pentachlorophenol	N	2790	mg/kg	0.5	< 0.50
Phenanthrene	N	2790	mg/kg	0.5	< 0.50

**Project: 15-0645.02 - Corby**

Client: Delta Simons	<b>Chemtest Job No.:</b>				15-20519	15-20519	15-20519	15-20519	15-20519
Quotation No.: Q15-04536	<b>Chemtest Sample ID.:</b>				187864	187865	187866	187869	187877
Order No.: DS26055	<b>Client Sample Ref.:</b>				Clay	Sand	Clay	BH108	BH110
	<b>Client Sample ID.:</b>				BH108	DS116	DS116	ES2	ES
	<b>Sample Type:</b>				SOIL	SOIL	SOIL	SOIL	SOIL
	<b>Top Depth (m):</b>				2.5	0.2	0.3	8.0	2.5
	<b>Bottom Depth(m):</b>				3.0	0.3	0.7	8.45	3.0
	<b>Date Sampled:</b>				03-Sep-15	03-Sep-15	03-Sep-15	01-Sep-15	03-Sep-15
<b>Determinand</b>	<b>Accred.</b>	<b>SOP</b>	<b>Units</b>	<b>LOD</b>					
Anthracene	N	2790	mg/kg	0.5			< 0.50		
Carbazole	N	2790	mg/kg	0.5			< 0.50		
Di-N-Butyl Phthalate	N	2790	mg/kg	0.5			< 0.50		
Fluoranthene	N	2790	mg/kg	0.5			< 0.50		
Pyrene	N	2790	mg/kg	0.5			< 0.50		
Butylbenzyl Phthalate	N	2790	mg/kg	0.5			< 0.50		
Benzo[a]anthracene	N	2790	mg/kg	0.5			< 0.50		
Chrysene	N	2790	mg/kg	0.5			< 0.50		
Bis(2-Ethylhexyl)Phthalate	N	2790	mg/kg	0.5			< 0.50		
Di-N-Octyl Phthalate	N	2790	mg/kg	0.5			< 0.50		
Benzo[b]fluoranthene	N	2790	mg/kg	0.5			< 0.50		
Benzo[k]fluoranthene	N	2790	mg/kg	0.5			< 0.50		
Benzo[a]pyrene	N	2790	mg/kg	0.5			< 0.50		
Indeno(1,2,3-c,d)Pyrene	N	2790	mg/kg	0.5			< 0.50		
Dibenz(a,h)Anthracene	N	2790	mg/kg	0.5			< 0.50		
Benzo[g,h,i]perylene	N	2790	mg/kg	0.5			< 0.50		
Total Phenols	M	2920	mg/kg	0.3	< 0.30	< 0.30		< 0.30	< 0.30

## **Report Information**

### **Key**

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- U UKAS accredited
- M MCERTS and UKAS accredited
- N Unaccredited
- S This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
- SN This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
- T This analysis has been subcontracted to an unaccredited laboratory
- I/S Insufficient Sample
- U/S Unsuitable Sample
- N/E not evaluated
- < "less than"
- > "greater than"

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

Uncertainty of measurement for the determinands tested are available upon request

None of the results in this report have been recovery corrected

All results are expressed on a dry weight basis

The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVCOs, PCBs, Phenols

For all other tests the samples were dried at < 37°C prior to analysis

All Asbestos testing is performed at our Coventry laboratory

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

### **Sample Deviation Codes**

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- A - Date of sampling not supplied
- B - Sample age exceeds stability time (sampling to extraction)
- C - Sample not received in appropriate containers
- D - Broken Container

### **Sample Retention and Disposal**

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All soil samples will be retained for a period of 60 days from the date of receipt

All water samples will be retained for 14 days from the date of receipt

Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:  
[customerservices@chemtest.co.uk](mailto:customerservices@chemtest.co.uk)





# Final Report

**Report Number:** 15-21045 Issue-1

**Initial Date of Issue:** 22-Sep-2015

**Client:** Delta Simons

**Client Address:**  
3 Henley Office Park  
Doddington Road  
Lincoln  
Lincolnshire  
LN6 3QR

**Contact(s):**  
Simon Steele  
Stacey Ragsdale

**Project:** 15-0645.02 Corby

**Quotation No.:** Q15-04536

**Date Received:** 11-Sep-2015

**Order No.:** DS26055

**Date Instructed:** 16-Sep-2015

**No. of Samples:** 7

**Turnaround: (Wkdays)** 5

**Results Due Date:** 22-Sep-2015

**Date Approved:** 22-Sep-2015

**Approved By:**

**Details:** Robert Monk, Technical Development  
Chemist

**Project: 15-0645.02 Corby**

Client: Delta Simons	Chemtest Job No.:		15-21045	15-21045	15-21045	15-21045	15-21045	15-21045	15-21045	15-21045
Quotation No.: Q15-04536	Chemtest Sample ID.:		190673	190674	190676	190677	190678	190679	190680	
Order No.: DS26055	Client Sample Ref.:		DS115	DS115	DS119	DS117	DS117	DS118	DS118	DS118
	Client Sample ID.:		GRAVEL	CLAY	CLAY	CLAY	SAND	CLAY	SAND	SAND
	Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):		0.05	1.5	1.8	1.3	0.1	0.8	0.2	
	Bottom Depth(m):		0.1	1.8	2	1.5	0.3	1	0.3	
	Date Sampled:		03-Sep-15	03-Sep-15	03-Sep-15	04-Sep-15	04-Sep-15	04-Sep-15	04-Sep-15	04-Sep-15
Determinand	Accred.	SOP	Units	LOD						
ACM Type	U	2192			-		-		-	-
Asbestos Identification	U	2192			No Asbestos Detected		No Asbestos Detected		No Asbestos Detected	No Asbestos Detected
Moisture	N	2030	%	0.02	3.3	14	15	11	7.1	15
Soil Colour	N				Brown	Brown	Brown	Brown	Brown	Brown
Other Material	N				Stones	Stones	Stones	Stones	Stones	Stones
Soil Texture	N				Sand	Clay	Clay	Clay	Sand	Clay
pH	M	2010			8.5		7.7		8.1	7.8
Boron (Hot Water Soluble)	M	2120	mg/kg	0.4	0.51		0.70		< 0.40	0.64
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.01	0.37		1.1		1.2	1.1
Total Sulphur	M	2175	%	0.01	0.080		1.1		0.26	1.4
Cyanide (Free)	M	2300	mg/kg	0.5	< 0.50		< 0.50		< 0.50	< 0.50
Cyanide (Total)	M	2300	mg/kg	0.5	< 0.50		< 0.50		< 0.50	< 0.50
Sulphate (Acid Soluble)	M	2430	%	0.01	0.20		1.0		0.41	1.1
Arsenic	M	2450	mg/kg	1	9.5		22		11	22
Cadmium	M	2450	mg/kg	0.1	< 0.10		0.13		0.13	0.11
Chromium	M	2450	mg/kg	1	16		32		4.9	33
Copper	M	2450	mg/kg	0.5	17		21		1.3	19
Mercury	M	2450	mg/kg	0.1	< 0.10		< 0.10		< 0.10	< 0.10
Nickel	M	2450	mg/kg	0.5	15		32		1.9	32
Lead	M	2450	mg/kg	0.5	12		15		0.78	14
Selenium	M	2450	mg/kg	0.2	< 0.20		< 0.20		< 0.20	< 0.20
Zinc	M	2450	mg/kg	0.5	43		49		5.2	51
Chromium (Trivalent)	N	2490	mg/kg	5	16		32		< 5.0	33
Chromium (Hexavalent)	N	2490	mg/kg	0.5	< 0.50		< 0.50		< 0.50	< 0.50
Fuel Type	N	2670			N/A		N/A		N/A	
Aliphatic TPH >C5-C6	N	2680	mg/kg	1	< 1.0		< 1.0		< 1.0	
Aliphatic TPH >C6-C8	N	2680	mg/kg	1	< 1.0		< 1.0		< 1.0	
Aliphatic TPH >C8-C10	M	2680	mg/kg	1	< 1.0		< 1.0		< 1.0	
Aliphatic TPH >C10-C12	M	2680	mg/kg	1	< 1.0		< 1.0		< 1.0	
Aliphatic TPH >C12-C16	M	2680	mg/kg	1	< 1.0		< 1.0		< 1.0	
Aliphatic TPH >C16-C21	M	2680	mg/kg	1	< 1.0		< 1.0		< 1.0	
Aliphatic TPH >C21-C35	M	2680	mg/kg	1	< 1.0		< 1.0		< 1.0	

**Project: 15-0645.02 Corby**

Client: Delta Simons	Chemtest Job No.:		15-21045	15-21045	15-21045	15-21045	15-21045	15-21045	15-21045
Quotation No.: Q15-04536	Chemtest Sample ID.:		190673	190674	190676	190677	190678	190679	190680
Order No.: DS26055	Client Sample Ref.:		DS115	DS115	DS119	DS117	DS118	DS118	DS118
	Client Sample ID.:		GRAVEL	CLAY	CLAY	CLAY	SAND	CLAY	SAND
	Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):		0.05	1.5	1.8	1.3	0.1	0.8	0.2
	Bottom Depth(m):		0.1	1.8	2	1.5	0.3	1	0.3
	Date Sampled:		03-Sep-15	03-Sep-15	03-Sep-15	04-Sep-15	04-Sep-15	04-Sep-15	04-Sep-15
Determinand	Accred.	SOP	Units	LOD					
Aliphatic TPH >C35-C44	N	2680	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	
Total Aliphatic Hydrocarbons	M	2680	mg/kg	5	< 5.0	< 5.0	< 5.0	< 5.0	
Aromatic TPH >C5-C7	N	2680	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	
Aromatic TPH >C7-C8	N	2680	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	
Aromatic TPH >C8-C10	M	2680	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	
Aromatic TPH >C10-C12	M	2680	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	
Aromatic TPH >C12-C16	M	2680	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	
Aromatic TPH >C16-C21	M	2680	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	
Aromatic TPH >C21-C35	M	2680	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	
Aromatic TPH >C35-C44	N	2680	mg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	
Total Aromatic Hydrocarbons	M	2680	mg/kg	5	< 5.0	< 5.0	< 5.0	< 5.0	
Total Petroleum Hydrocarbons	M	2680	mg/kg	10	< 10	< 10	< 10	< 10	
Naphthalene	M	2700	mg/kg	0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	M	2700	mg/kg	0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	M	2700	mg/kg	0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	M	2700	mg/kg	0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	M	2700	mg/kg	0.1	0.88	< 0.10	< 0.10	< 0.10	< 0.10
Anthracene	M	2700	mg/kg	0.1	0.30	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	M	2700	mg/kg	0.1	1.1	< 0.10	< 0.10	< 0.10	< 0.10
Pyrene	M	2700	mg/kg	0.1	1.4	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]anthracene	M	2700	mg/kg	0.1	0.48	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene	M	2700	mg/kg	0.1	0.71	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	M	2700	mg/kg	0.1	0.47	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	M	2700	mg/kg	0.1	0.21	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene	M	2700	mg/kg	0.1	0.42	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	M	2700	mg/kg	0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	M	2700	mg/kg	0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	M	2700	mg/kg	0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's	M	2700	mg/kg	2	6.0	< 2.0	< 2.0	< 2.0	< 2.0
Dichlorodifluoromethane	U	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloromethane	M	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl Chloride	M	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane	M	2760	µg/kg	20	< 20	< 20	< 20	< 20	< 20

**Project: 15-0645.02 Corby**

Client: Delta Simons	Chemtest Job No.:		15-21045	15-21045	15-21045	15-21045	15-21045	15-21045	15-21045
Quotation No.: Q15-04536	Chemtest Sample ID.:		190673	190674	190676	190677	190678	190679	190680
Order No.: DS26055	Client Sample Ref.:		DS115	DS115	DS119	DS117	DS117	DS118	DS118
	Client Sample ID.:		GRAVEL	CLAY	CLAY	CLAY	SAND	CLAY	SAND
	Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):		0.05	1.5	1.8	1.3	0.1	0.8	0.2
	Bottom Depth(m):		0.1	1.8	2	1.5	0.3	1	0.3
	Date Sampled:		03-Sep-15	03-Sep-15	03-Sep-15	04-Sep-15	04-Sep-15	04-Sep-15	04-Sep-15
Determinand	Accred.	SOP	Units	LOD					
Chloroethane	U	2760	µg/kg	2	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Trichlorofluoromethane	M	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	M	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trans 1,2-Dichloroethene	M	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	M	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis 1,2-Dichloroethene	M	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromochloromethane	U	2760	µg/kg	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Trichloromethane	M	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1-Trichloroethane	M	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloromethane	M	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloropropene	U	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Benzene	M	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	M	2760	µg/kg	2	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Trichloroethene	M	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	M	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dibromomethane	M	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromodichloromethane	M	2760	µg/kg	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
cis-1,3-Dichloropropene	N	2760	µg/kg	10	< 10	< 10	< 10	< 10	< 10
Toluene	M	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,3-Dichloropropene	N	2760	µg/kg	10	< 10	< 10	< 10	< 10	< 10
1,1,2-Trichloroethane	M	2760	µg/kg	10	< 10	< 10	< 10	< 10	< 10
Tetrachloroethene	M	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichloropropane	U	2760	µg/kg	2	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Dibromochloromethane	U	2760	µg/kg	10	< 10	< 10	< 10	< 10	< 10
1,2-Dibromoethane	M	2760	µg/kg	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chlorobenzene	M	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1,2-Tetrachloroethane	M	2760	µg/kg	2	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Ethylbenzene	M	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m & p-Xylene	M	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene	M	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Styrene	M	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tribromomethane	U	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Isopropylbenzene	M	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

**Project: 15-0645.02 Corby**

Client: Delta Simons	Chemtest Job No.:		15-21045	15-21045	15-21045	15-21045	15-21045	15-21045	15-21045
Quotation No.: Q15-04536	Chemtest Sample ID.:		190673	190674	190676	190677	190678	190679	190680
Order No.: DS26055	Client Sample Ref.:		DS115	DS115	DS119	DS117	DS117	DS118	DS118
	Client Sample ID.:		GRAVEL	CLAY	CLAY	CLAY	SAND	CLAY	SAND
	Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):		0.05	1.5	1.8	1.3	0.1	0.8	0.2
	Bottom Depth(m):		0.1	1.8	2	1.5	0.3	1	0.3
	Date Sampled:		03-Sep-15	03-Sep-15	03-Sep-15	04-Sep-15	04-Sep-15	04-Sep-15	04-Sep-15
Determinand	Accred.	SOP	Units	LOD					
Bromobenzene	M	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichloropropane	N	2760	µg/kg	50	< 50	< 50	< 50	< 50	< 50
N-Propylbenzene	U	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2-Chlorotoluene	M	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	M	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
4-Chlorotoluene	U	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tert-Butylbenzene	U	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	M	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Sec-Butylbenzene	U	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	M	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
4-Isopropyltoluene	U	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	M	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
N-Butylbenzene	U	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	M	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-Chloropropane	U	2760	µg/kg	50	< 50	< 50	< 50	< 50	< 50
1,2,4-Trichlorobenzene	M	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Hexachlorobutadiene	U	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichlorobenzene	U	2760	µg/kg	2	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Methyl Tert-Butyl Ether	M	2760	µg/kg	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
N-Nitrosodimethylamine	N	2790	mg/kg	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Phenol	N	2790	mg/kg	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Chlorophenol	N	2790	mg/kg	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bis-(2-Chloroethyl)Ether	N	2790	mg/kg	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,3-Dichlorobenzene	N	2790	mg/kg	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,4-Dichlorobenzene	N	2790	mg/kg	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-Dichlorobenzene	N	2790	mg/kg	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Methylphenol	N	2790	mg/kg	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bis(2-Chloroisopropyl)Ether	N	2790	mg/kg	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Hexachloroethane	N	2790	mg/kg	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
N-Nitrosodi-n-propylamine	N	2790	mg/kg	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Methylphenol	N	2790	mg/kg	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Nitrobenzene	N	2790	mg/kg	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Isophorone	N	2790	mg/kg	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

**Project: 15-0645.02 Corby**

Client: Delta Simons	Chemtest Job No.:		15-21045	15-21045	15-21045	15-21045	15-21045	15-21045	15-21045
Quotation No.: Q15-04536	Chemtest Sample ID.:		190673	190674	190676	190677	190678	190679	190680
Order No.: DS26055	Client Sample Ref.:		DS115	DS115	DS119	DS117	DS117	DS118	DS118
	Client Sample ID.:		GRAVEL	CLAY	CLAY	CLAY	SAND	CLAY	SAND
	Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):		0.05	1.5	1.8	1.3	0.1	0.8	0.2
	Bottom Depth(m):		0.1	1.8	2	1.5	0.3	1	0.3
	Date Sampled:		03-Sep-15	03-Sep-15	03-Sep-15	04-Sep-15	04-Sep-15	04-Sep-15	04-Sep-15
Determinand	Accred.	SOP	Units	LOD					
2-Nitrophenol	N	2790	mg/kg	0.5	< 0.50	< 0.50			< 0.50
2,4-Dimethylphenol	N	2790	mg/kg	0.5	< 0.50	< 0.50			< 0.50
Bis(2-Chloroethoxy)Methane	N	2790	mg/kg	0.5	< 0.50	< 0.50			< 0.50
2,4-Dichlorophenol	N	2790	mg/kg	0.5	< 0.50	< 0.50			< 0.50
1,2,4-Trichlorobenzene	N	2790	mg/kg	0.5	< 0.50	< 0.50			< 0.50
Naphthalene	N	2790	mg/kg	0.5	< 0.50	< 0.50			< 0.50
4-Chloroaniline	N	2790	mg/kg	0.5	< 0.50	< 0.50			< 0.50
Hexachlorobutadiene	N	2790	mg/kg	0.5	< 0.50	< 0.50			< 0.50
4-Chloro-3-Methylphenol	N	2790	mg/kg	0.5	< 0.50	< 0.50			< 0.50
2-Methylnaphthalene	N	2790	mg/kg	0.5	< 0.50	< 0.50			< 0.50
4-Nitrophenol	N	2790	mg/kg	0.5	< 0.50	< 0.50			< 0.50
Hexachlorocyclopentadiene	N	2790	mg/kg	0.5	< 0.50	< 0.50			< 0.50
2,4,6-Trichlorophenol	N	2790	mg/kg	0.5	< 0.50	< 0.50			< 0.50
2,4,5-Trichlorophenol	N	2790	mg/kg	0.5	< 0.50	< 0.50			< 0.50
2-Chloronaphthalene	N	2790	mg/kg	0.5	< 0.50	< 0.50			< 0.50
2-Nitroaniline	N	2790	mg/kg	0.5	< 0.50	< 0.50			< 0.50
Acenaphthylene	N	2790	mg/kg	0.5	< 0.50	< 0.50			< 0.50
Dimethylphthalate	N	2790	mg/kg	0.5	< 0.50	< 0.50			< 0.50
2,6-Dinitrotoluene	N	2790	mg/kg	0.5	< 0.50	< 0.50			< 0.50
Acenaphthene	N	2790	mg/kg	0.5	< 0.50	< 0.50			< 0.50
3-Nitroaniline	N	2790	mg/kg	0.5	< 0.50	< 0.50			< 0.50
Dibenzofuran	N	2790	mg/kg	0.5	< 0.50	< 0.50			< 0.50
4-Chlorophenylphenylether	N	2790	mg/kg	0.5	< 0.50	< 0.50			< 0.50
2,4-Dinitrotoluene	N	2790	mg/kg	0.5	< 0.50	< 0.50			< 0.50
Fluorene	N	2790	mg/kg	0.5	< 0.50	< 0.50			< 0.50
Diethyl Phthalate	N	2790	mg/kg	0.5	< 0.50	< 0.50			< 0.50
4-Nitroaniline	N	2790	mg/kg	0.5	< 0.50	< 0.50			< 0.50
2-Methyl-4,6-Dinitrophenol	N	2790	mg/kg	0.5	< 0.50	< 0.50			< 0.50
Azobenzene	N	2790	mg/kg	0.5	< 0.50	< 0.50			< 0.50
4-Bromophenylphenyl Ether	N	2790	mg/kg	0.5	< 0.50	< 0.50			< 0.50
Hexachlorobenzene	N	2790	mg/kg	0.5	< 0.50	< 0.50			< 0.50
Pentachlorophenol	N	2790	mg/kg	0.5	< 0.50	< 0.50			< 0.50
Phenanthrene	N	2790	mg/kg	0.5	< 0.50	< 0.50			< 0.50

**Project: 15-0645.02 Corby**

Client: Delta Simons	<b>Chemtest Job No.:</b>		15-21045	15-21045	15-21045	15-21045	15-21045	15-21045	15-21045
Quotation No.: Q15-04536	<b>Chemtest Sample ID.:</b>		190673	190674	190676	190677	190678	190679	190680
Order No.: DS26055	<b>Client Sample Ref.:</b>		DS115	DS115	DS119	DS117	DS117	DS118	DS118
	<b>Client Sample ID.:</b>		GRAVEL	CLAY	CLAY	CLAY	SAND	CLAY	SAND
	<b>Sample Type:</b>		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<b>Top Depth (m):</b>		0.05	1.5	1.8	1.3	0.1	0.8	0.2
	<b>Bottom Depth(m):</b>		0.1	1.8	2	1.5	0.3	1	0.3
	<b>Date Sampled:</b>		03-Sep-15	03-Sep-15	03-Sep-15	04-Sep-15	04-Sep-15	04-Sep-15	04-Sep-15
<b>Determinand</b>	<b>Accred.</b>	<b>SOP</b>	<b>Units</b>	<b>LOD</b>					
Anthracene	N	2790	mg/kg	0.5	< 0.50	< 0.50			< 0.50
Carbazole	N	2790	mg/kg	0.5	< 0.50	< 0.50			< 0.50
Di-N-Butyl Phthalate	N	2790	mg/kg	0.5	< 0.50	< 0.50			< 0.50
Fluoranthene	N	2790	mg/kg	0.5	< 0.50	< 0.50			< 0.50
Pyrene	N	2790	mg/kg	0.5	< 0.50	< 0.50			< 0.50
Butylbenzyl Phthalate	N	2790	mg/kg	0.5	< 0.50	< 0.50			< 0.50
Benzo[a]anthracene	N	2790	mg/kg	0.5	< 0.50	< 0.50			< 0.50
Chrysene	N	2790	mg/kg	0.5	< 0.50	< 0.50			< 0.50
Bis(2-Ethylhexyl)Phthalate	N	2790	mg/kg	0.5	< 0.50	< 0.50			< 0.50
Di-N-Octyl Phthalate	N	2790	mg/kg	0.5	< 0.50	< 0.50			< 0.50
Benzo[b]fluoranthene	N	2790	mg/kg	0.5	< 0.50	< 0.50			< 0.50
Benzo[k]fluoranthene	N	2790	mg/kg	0.5	< 0.50	< 0.50			< 0.50
Benzo[a]pyrene	N	2790	mg/kg	0.5	< 0.50	< 0.50			< 0.50
Indeno(1,2,3-c,d)Pyrene	N	2790	mg/kg	0.5	< 0.50	< 0.50			< 0.50
Dibenz(a,h)Anthracene	N	2790	mg/kg	0.5	< 0.50	< 0.50			< 0.50
Benzo[g,h,i]perylene	N	2790	mg/kg	0.5	< 0.50	< 0.50			< 0.50
Total Phenols	M	2920	mg/kg	0.3	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30

## **Report Information**

### **Key**

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- U UKAS accredited
- M MCERTS and UKAS accredited
- N Unaccredited
- S This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
- SN This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
- T This analysis has been subcontracted to an unaccredited laboratory
- I/S Insufficient Sample
- U/S Unsuitable Sample
- N/E not evaluated
- < "less than"
- > "greater than"

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

Uncertainty of measurement for the determinands tested are available upon request

None of the results in this report have been recovery corrected

All results are expressed on a dry weight basis

The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVCOs, PCBs, Phenols

For all other tests the samples were dried at < 37°C prior to analysis

All Asbestos testing is performed at our Coventry laboratory

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

### **Sample Deviation Codes**

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- A - Date of sampling not supplied
- B - Sample age exceeds stability time (sampling to extraction)
- C - Sample not received in appropriate containers
- D - Broken Container

### **Sample Retention and Disposal**

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All soil samples will be retained for a period of 60 days from the date of receipt

All water samples will be retained for 14 days from the date of receipt

Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:  
[customerservices@chemtest.co.uk](mailto:customerservices@chemtest.co.uk)







# Amended Report

**Report Number:** 15-21023 Issue-2

**Initial Date of Issue:** 17-Sep-2015

**Client:** Delta Simons

**Client Address:** 3 Henley Office Park  
Doddington Road  
Lincoln  
Lincolnshire  
LN6 3QR

**Contact(s):** Simon Steele

**Project:** 15-0645.02 - Corby

**Quotation No.:** Q15-04536      **Date Received:** 11-Sep-2015


**Order No.:** DS26055      **Date Instructed:** 11-Sep-2015

**No. of Samples:** 9

**Turnaround: (Wkdays)** 5      **Results Due Date:** 17-Sep-2015

**Date Approved:** 17-Sep-2015

**Approved By:**



**Details:** Robert Monk, Technical Development  
Chemist

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**Project: 15-0645.02 - Corby**

Client: Delta Simons	Chemtest Job No.:		15-21023	15-21023	15-21023	15-21023	15-21023	15-21023	15-21023	15-21023	15-21023	15-21023	
Quotation No.: Q15-04536	Chemtest Sample ID.:		190621	190622	190623	190624	190625	190626	190627	190628	190628	190654	
Order No.: DS26055	Client Sample Ref.:												
	Client Sample ID.:		R3	R1	BH104	R4	R2	BH101	DS107	DS116	BH102		
	Sample Type:		WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	
	Top Depth (m):												
	Bottom Depth(m):												
	Date Sampled:		08-Sep-15	08-Sep-15	08-Sep-15	08-Sep-15	08-Sep-15	08-Sep-15	08-Sep-15	08-Sep-15	08-Sep-15	08-Sep-15	
Determinand	Accred.	SOP	Units	LOD									
pH	U	1010			7.5	7	7.2	7.6	7.5	7.4	7	7	9.3
Sulphate	U	1220	mg/l	1	530	510	120	440	900	550	1400	1400	170
Cyanide (Total)	U	1300	mg/l	0.05	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Hardness	U	1415	mg/l	15	570	650	470	470	930	760	1500	1700	230
Arsenic (Dissolved)	U	1450	µg/l	1	4	2.9	1.1	1.8	4.2	3.5	3	< 1.0	4.5
Boron (Dissolved)	U	1450	µg/l	20	310	250	120	1200	320	460	230	140	740
Cadmium (Dissolved)	U	1450	µg/l	0.08	0.59	< 0.080	< 0.080	< 0.080	< 0.080	< 0.080	0.74	0.2	1.2
Chromium (Dissolved)	U	1450	µg/l	1	5.2	6.3	6.8	8.7	8	12	5.7	9.9	3.6
Copper (Dissolved)	U	1450	µg/l	1	1.5	1.3	1.3	1.2	< 1.0	1.3	< 1.0	< 1.0	1.5
Mercury (Dissolved)	U	1450	µg/l	0.5	1.5	0.98	0.73	1.4	1.5	2	1.3	1.3	0.61
Nickel (Dissolved)	U	1450	µg/l	1	3.9	5.9	4.2	2.2	6.3	6.3	2.3	4.5	6.3
Lead (Dissolved)	U	1450	µg/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.2
Selenium (Dissolved)	U	1450	µg/l	1	8.4	5.5	1.6	16	8.7	9.4	3.8	4.1	9.2
Zinc (Dissolved)	U	1450	µg/l	1	12	15	38	15	20	36	9.5	40	6.8
Chromium (Trivalent)	N	1490	µg/l	20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
Chromium (Hexavalent)	U	1490	µg/l	20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
Aliphatic TPH >C5-C6	N	1675	µg/l	0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	C < 0.10
Aliphatic TPH >C6-C8	N	1675	µg/l	0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	C < 0.10
Aliphatic TPH >C8-C10	N	1675	µg/l	0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	C < 0.10
Aliphatic TPH >C10-C12	N	1675	µg/l	0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	C < 0.10
Aliphatic TPH >C12-C16	N	1675	µg/l	0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	C < 0.10
Aliphatic TPH >C16-C21	N	1675	µg/l	0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	C < 0.10
Aliphatic TPH >C21-C35	N	1675	µg/l	0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	C < 0.10
Aliphatic TPH >C35-C44	N	1675	µg/l	0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	C < 0.10
Total Aliphatic Hydrocarbons	N	1675	µg/l	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	C < 5.0
Aromatic TPH >C5-C7	N	1675	µg/l	0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	C < 0.10
Aromatic TPH >C7-C8	N	1675	µg/l	0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	C < 0.10
Aromatic TPH >C8-C10	N	1675	µg/l	0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	C < 0.10
Aromatic TPH >C10-C12	N	1675	µg/l	0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	C < 0.10
Aromatic TPH >C12-C16	N	1675	µg/l	0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	C < 0.10
Aromatic TPH >C16-C21	N	1675	µg/l	0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	C < 0.10
Aromatic TPH >C21-C35	N	1675	µg/l	0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	C < 0.10
Aromatic TPH >C35-C44	N	1675	µg/l	0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	C < 0.10

**Project: 15-0645.02 - Corby**

Client: Delta Simons	Chemtest Job No.:		15-21023	15-21023	15-21023	15-21023	15-21023	15-21023	15-21023	15-21023	15-21023	15-21023
Quotation No.: Q15-04536	Chemtest Sample ID.:		190621	190622	190623	190624	190625	190626	190627	190628	190654	
Order No.: DS26055	Client Sample Ref.:											
	Client Sample ID.:		R3	R1	BH104	R4	R2	BH101	DS107	DS116	BH102	
	Sample Type:		WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	
	Top Depth (m):											
	Bottom Depth(m):											
	Date Sampled:		08-Sep-15	08-Sep-15	08-Sep-15	08-Sep-15	08-Sep-15	08-Sep-15	08-Sep-15	08-Sep-15	08-Sep-15	
Determinand	Accred.	SOP	Units	LOD								
Total Aromatic Hydrocarbons	N	1675	µg/l	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	C < 5.0
Total Petroleum Hydrocarbons	U	1675	µg/l	10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	C < 10
Naphthalene	U	1700	µg/l	0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	U	1700	µg/l	0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	U	1700	µg/l	0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	U	1700	µg/l	0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	U	1700	µg/l	0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Anthracene	U	1700	µg/l	0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	U	1700	µg/l	0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Pyrene	U	1700	µg/l	0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]anthracene	U	1700	µg/l	0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene	U	1700	µg/l	0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	U	1700	µg/l	0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	U	1700	µg/l	0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene	U	1700	µg/l	0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	U	1700	µg/l	0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	U	1700	µg/l	0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	U	1700	µg/l	0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's	U	1700	µg/l	2	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Dichlorodifluoromethane	U	1760	µg/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloromethane	U	1760	µg/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl Chloride	N	1760	µg/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane	U	1760	µg/l	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chloroethane	U	1760	µg/l	2	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Trichlorofluoromethane	U	1760	µg/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	U	1760	µg/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trans 1,2-Dichloroethene	U	1760	µg/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	U	1760	µg/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis 1,2-Dichloroethene	U	1760	µg/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromochloromethane	U	1760	µg/l	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Trichloromethane	U	1760	µg/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1-Trichloroethane	U	1760	µg/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloromethane	U	1760	µg/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

## Results Summary - Water

**Project: 15-0645.02 - Corby**

Client: Delta Simons	Chemtest Job No.:		15-21023	15-21023	15-21023	15-21023	15-21023	15-21023	15-21023	15-21023	15-21023	15-21023	15-21023
Quotation No.: Q15-04536	Chemtest Sample ID.:		190621	190622	190623	190624	190625	190626	190627	190628	190628	190628	190654
Order No.: DS26055	Client Sample Ref.:												
	Client Sample ID.:		R3	R1	BH104	R4	R2	BH101	DS107	DS116	DS116	BH102	
	Sample Type:		WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
	Top Depth (m):												
	Bottom Depth(m):												
	Date Sampled:		08-Sep-15	08-Sep-15	08-Sep-15	08-Sep-15	08-Sep-15	08-Sep-15	08-Sep-15	08-Sep-15	08-Sep-15	08-Sep-15	08-Sep-15
Determinand	Accred.	SOP	Units	LOD									
1,1-Dichloropropene	U	1760	µg/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Benzene	U	1760	µg/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	U	1760	µg/l	2	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Trichloroethene	N	1760	µg/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	U	1760	µg/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dibromomethane	U	1760	µg/l	10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Bromodichloromethane	U	1760	µg/l	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
cis-1,3-Dichloropropene	N	1760	µg/l	10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Toluene	U	1760	µg/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,3-Dichloropropene	N	1760	µg/l	10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
1,1,2-Trichloroethane	U	1760	µg/l	10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Tetrachloroethene	U	1760	µg/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichloropropane	U	1760	µg/l	2	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Dibromochloromethane	U	1760	µg/l	10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
1,2-Dibromoethane	U	1760	µg/l	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chlorobenzene	N	1760	µg/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1,2-Tetrachloroethane	U	1760	µg/l	2	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Ethylbenzene	U	1760	µg/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
m & p-Xylene	U	1760	µg/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene	U	1760	µg/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Styrene	U	1760	µg/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tribromomethane	U	1760	µg/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Isopropylbenzene	U	1760	µg/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromobenzene	U	1760	µg/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichloropropane	N	1760	µg/l	50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
N-Propylbenzene	U	1760	µg/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2-Chlorotoluene	U	1760	µg/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	U	1760	µg/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
4-Chlorotoluene	U	1760	µg/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tert-Butylbenzene	U	1760	µg/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	U	1760	µg/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Sec-Butylbenzene	U	1760	µg/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	N	1760	µg/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

**Project: 15-0645.02 - Corby**

Client: Delta Simons	Chemtest Job No.:		15-21023	15-21023	15-21023	15-21023	15-21023	15-21023	15-21023	15-21023	15-21023	15-21023
Quotation No.: Q15-04536	Chemtest Sample ID.:		190621	190622	190623	190624	190625	190626	190627	190628	190654	
Order No.: DS26055	Client Sample Ref.:											
	Client Sample ID.:		R3	R1	BH104	R4	R2	BH101	DS107	DS116	BH102	
	Sample Type:		WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	
	Top Depth (m):											
	Bottom Depth(m):											
	Date Sampled:		08-Sep-15	08-Sep-15	08-Sep-15	08-Sep-15	08-Sep-15	08-Sep-15	08-Sep-15	08-Sep-15	08-Sep-15	
Determinand	Accred.	SOP	Units	LOD								
4-Isopropyltoluene	U	1760	µg/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	U	1760	µg/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
N-Butylbenzene	U	1760	µg/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	U	1760	µg/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-Chloropropane	U	1760	µg/l	50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
1,2,4-Trichlorobenzene	U	1760	µg/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Hexachlorobutadiene	U	1760	µg/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichlorobenzene	U	1760	µg/l	2	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Methyl Tert-Butyl Ether	N	1760	µg/l	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
N-Nitrosodimethylamine	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Phenol	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Chlorophenol	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bis-(2-Chloroethyl)Ether	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,3-Dichlorobenzene	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,4-Dichlorobenzene	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2-Dichlorobenzene	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Methylphenol (o-Cresol)	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bis(2-Chloroisopropyl)Ether	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Hexachloroethane	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
N-Nitrosodi-n-propylamine	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Methylphenol	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Nitrobenzene	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Isophorone	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Nitrophenol	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,4-Dimethylphenol	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bis(2-Chloroethoxy)Methane	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,4-Dichlorophenol	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
1,2,4-Trichlorobenzene	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Naphthalene	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Chloroaniline	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Hexachlorobutadiene	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Chloro-3-Methylphenol	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Methylnaphthalene	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

**Project: 15-0645.02 - Corby**

Client: Delta Simons	Chemtest Job No.:		15-21023	15-21023	15-21023	15-21023	15-21023	15-21023	15-21023	15-21023	15-21023	15-21023
Quotation No.: Q15-04536	Chemtest Sample ID.:		190621	190622	190623	190624	190625	190626	190627	190628	190654	
Order No.: DS26055	Client Sample Ref.:											
	Client Sample ID.:		R3	R1	BH104	R4	R2	BH101	DS107	DS116	BH102	
	Sample Type:		WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	
	Top Depth (m):											
	Bottom Depth(m):											
	Date Sampled:		08-Sep-15	08-Sep-15	08-Sep-15	08-Sep-15	08-Sep-15	08-Sep-15	08-Sep-15	08-Sep-15	08-Sep-15	
Determinand	Accred.	SOP	Units	LOD								
Hexachlorocyclopentadiene	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,4,6-Trichlorophenol	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,4,5-Trichlorophenol	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Chloronaphthalene	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Nitroaniline	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Acenaphthylene	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Dimethylphthalate	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,6-Dinitrotoluene	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Acenaphthene	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
3-Nitroaniline	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Dibenzofuran	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Chlorophenylphenylether	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2,4-Dinitrotoluene	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Fluorene	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Diethyl Phthalate	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Nitroaniline	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
2-Methyl-4,6-Dinitrophenol	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Azobenzene	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Bromophenylphenyl Ether	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Hexachlorobenzene	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Pentachlorophenol	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Phenanthrene	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Anthracene	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Carbazole	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Di-N-Butyl Phthalate	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Fluoranthene	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Pyrene	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Butylbenzyl Phthalate	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Benzo[a]anthracene	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Chrysene	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bis(2-Ethylhexyl)Phthalate	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Di-N-Octyl Phthalate	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Benzo[b]fluoranthene	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50

## Results Summary - Water

**Project: 15-0645.02 - Corby**

Client: Delta Simons	<b>Chemtest Job No.:</b>				15-21023	15-21023	15-21023	15-21023	15-21023	15-21023	15-21023	15-21023	15-21023
Quotation No.: Q15-04536	<b>Chemtest Sample ID.:</b>				190621	190622	190623	190624	190625	190626	190627	190628	190654
Order No.: DS26055	Client Sample Ref.:												
	<b>Client Sample ID.:</b>				R3	R1	BH104	R4	R2	BH101	DS107	DS116	BH102
	Sample Type:				WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
	Top Depth (m):												
	Bottom Depth(m):												
	Date Sampled:				08-Sep-15	08-Sep-15	08-Sep-15	08-Sep-15	08-Sep-15	08-Sep-15	08-Sep-15	08-Sep-15	08-Sep-15
<b>Determinand</b>	<b>Accred.</b>	<b>SOP</b>	<b>Units</b>	<b>LOD</b>									
Benzo[k]fluoranthene	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Benzo[a]pyrene	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Indeno(1,2,3-c,d)Pyrene	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Dibenz(a,h)Anthracene	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Benzo[g,h,i]perylene	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
4-Nitrophenol	N	1790	µg/l	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Total Phenols	U	1920	mg/l	0.03	< 0.030	< 0.030	3.9	< 0.030	< 0.030	< 0.030	< 0.030	< 0.030	0.69



### Deviations

In accordance with UKAS Policy on Deviating Samples TPS 63. Chemtest have a procedure to ensure 'upon receipt of each sample a competent laboratory shall assess whether the sample is suitable with regard to the requested test(s)'. This policy and the respective holding times applied, can be supplied upon request. The reason a sample is declared as deviating is detailed below. Where applicable the analysis remains UKAS/MCERTs accredited but the results may be compromised.

<b>Chemtest Sample ID:</b>	<b>Sample Ref:</b>	<b>Sample ID:</b>	<b>Sampled Date:</b>	<b>Deviation Code(s):</b>	<b>Containers Received:</b>
190654		BH102	08-Sep-2015	C	EPA Vial 40ml
190654		BH102	08-Sep-2015	C	Plastic Bottle 1000ml

## **Report Information**

### **Key**

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- U UKAS accredited
- M MCERTS and UKAS accredited
- N Unaccredited
- S This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
- SN This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
- T This analysis has been subcontracted to an unaccredited laboratory
- I/S Insufficient Sample
- U/S Unsuitable Sample
- N/E not evaluated
- < "less than"
- > "greater than"

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

Uncertainty of measurement for the determinands tested are available upon request

None of the results in this report have been recovery corrected

All results are expressed on a dry weight basis

The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVCOs, PCBs, Phenols

For all other tests the samples were dried at < 37°C prior to analysis

All Asbestos testing is performed at our Coventry laboratory

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

### **Sample Deviation Codes**

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- A - Date of sampling not supplied
- B - Sample age exceeds stability time (sampling to extraction)
- C - Sample not received in appropriate containers
- D - Broken Container

### **Sample Retention and Disposal**

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All soil samples will be retained for a period of 60 days from the date of receipt

All water samples will be retained for 14 days from the date of receipt

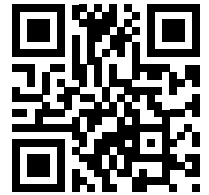
Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:

[customerservices@chemtest.co.uk](mailto:customerservices@chemtest.co.uk)



# Waste Classification Report



MUSFH-9JL6Z-2YTML

## Job name

Shelton Road, Corby

## Waste Stream

Default Contaminated Land

## Comments

## Project

15-0645.02

## Site

Shelton Road, Corby

## Classified by

Name:  
**Rhodes, John**  
Date:  
**09/10/2015 09:00 UTC**  
Telephone:  
**01522 823337**

Company:  
**Delta-Simons**  
**3 Henley Office Park**  
**Doddington Road**  
**Lincoln**  
**LN6 3QR**

## Report

Created by: Rhodes, John  
Created date: 09/10/2015 09:00 UTC

## Job summary

#	Sample Name	Depth [m]	Classification Result	Hazardous properties	Page
1	DS104	0.2	Potentially Hazardous	HP 3(i)	3
2	DS104[1]	1	Non Hazardous		5
3	DS102	0.3	Non Hazardous		7
4	DS105	0.2	Non Hazardous		9
5	DS105[1]	2	Non Hazardous		11
6	DS103	0.2	Non Hazardous		12
7	DS103[1]	0.6	Non Hazardous		14
8	DS106	0.2	Potentially Hazardous	HP 3(i)	15
9	DS106[1]	1.5	Non Hazardous		17
10	DS107a	0.08	Non Hazardous		19
11	DS107a[1]	0.9	Hazardous	HP 3(i), HP 7, HP 11	20
12	DS107a[2]	2.3	Non Hazardous		23
13	DS111	0.08	Non Hazardous		24
14	DS111[1]	1.3	Non Hazardous		26
15	DS109	0.1	Non Hazardous		27
16	DS109[1]	2.2	Non Hazardous		29
17	DS110	1.6	Non Hazardous		31

#	Sample Name	Depth [m]	Classification Result	Hazardous properties	Page
18	DS110[1]	1.8	Non Hazardous		33
19	DS112	0.4	Non Hazardous		34
20	DS107	0.2	Non Hazardous		36
21	DS107[1]	1.3	Non Hazardous		38
22	DS101	0.1	Non Hazardous		39
23	DS101[1]	0.5	Non Hazardous		40
24	DS108	0.1	Non Hazardous		42
25	DS108[1]	0.7	Non Hazardous		43
26	DS113	0.2	Non Hazardous		45
27	DS113[1]	1.8	Non Hazardous		47
28	DS114	0.7	Non Hazardous		48
29	BH108	2.5	Non Hazardous		50
30	DS116	0.2	Non Hazardous		52
31	DS116[1]	0.3	Non Hazardous		54
32	BH108[1]	8	Potentially Hazardous	HP 12	55
33	BH110	2.5	Non Hazardous		58
34	DS115	0.05	Non Hazardous		60
35	DS115[1]	1.5	Non Hazardous		62
36	DS119	1.8	Non Hazardous		63
37	DS117	1.3	Non Hazardous		65
38	DS117[1]	0.1	Non Hazardous		66
39	DS118	0.8	Non Hazardous		68
40	DS118[1]	0.2	Non Hazardous		70
41	BH101	11	Potentially Hazardous	HP 12	71
42	BH102	11	Hazardous	HP 12, HP 14	73
43	BH103	7.5	Potentially Hazardous	HP 12	75
44	BH103[1]	16	Non Hazardous		77
45	BH105	4	Non Hazardous		79
46	BH105[1]	11	Non Hazardous		80
47	BH105[2]	19	Hazardous	HP 14	82
48	BH106	4.5	Non Hazardous		84
49	BH106[1]	11	Hazardous	HP 12, HP 14	86
50	BH107	4.2	Non Hazardous		88
51	BH107[1]	12.5	Non Hazardous		90
52	BH109	3.5	Non Hazardous		92
53	BH109[1]	6.5	Non Hazardous		94
54	BH109[2]	14	Non Hazardous		95
55	BH104	4.1	Non Hazardous		97
56	BH104[1]	10.5	Non Hazardous		99

Appendices	Page
Appendix A: Classifier defined and non CLP determinands	101
Appendix B: Notes	103
Appendix C: Version	104

Classification of sample: DS104

**\* Potentially Hazardous Waste**  
Classified as **17 05 04** or **17 05 03 \***  
in the List of Waste

Sample details

<p>Sample Name: <b>DS104</b></p> <p>Sample Depth: <b>0.2 m</b></p> <p>Moisture content: <b>7.1%</b> (no correction)</p>	<p>LoW Code: Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)</p> <p>Entry: 17 05 04 or 17 05 03 * (Soil and stones other than those mentioned in 17 05 03 or Soil and stones containing hazardous substances)</p>
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Hazard properties (substances considered hazardous until shown otherwise)

**HP 3(i): Flammable** "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Hazard Statements hit:

**Flam. Liq. 3; H226** "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.0018%)

Determinands (Moisture content: 7.1%, no correction)

- acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- arsenic trioxide: (Cation conc. entered: 44 mg/kg, converted to compound conc.:58.094 mg/kg or 0.00581%)
- benzene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
- benzo[a]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- benzo[b]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- benzo[ghi]perylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- benzo[k]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- boron tribromide/trichloride/trifluoride (combined): (Cation conc. entered: <0.4 mg/kg, converted to compound conc.:<5.372 mg/kg or <0.000537%) **IGNORED Because: "<LOD"**
- cadmium sulfide: (Cation conc. entered: 0.31 mg/kg, converted to compound conc.:0.398 mg/kg or 0.0000398%, Note 1 conc.: 0.000031%)
- chromium(III) oxide: (Cation conc. entered: 13 mg/kg, converted to compound conc.:19 mg/kg or 0.0019%)
- chromium(VI) oxide: (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.962 mg/kg or <0.0000962%) **IGNORED Because: "<LOD"**
- chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- copper (I) oxide: (Cation conc. entered: 2.2 mg/kg, converted to compound conc.:2.477 mg/kg or 0.000248%)
- cyanides (with the exception of complex cyanides): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.5 mg/kg or <0.00005%) **IGNORED Because: "<LOD"**
- dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- ethylbenzene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
- fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- lead compounds (with the exception of those listed separately in this Annex): (Cation conc. entered: 2.2 mg/kg, converted to compound conc.:3.322 mg/kg or 0.000332%, Note 1 conc.: 0.00022%)

mercury dichloride: (Cation conc. entered: <0.1 mg/kg, converted to compound conc.:<0.135 mg/kg or <0.0000135%)  
**IGNORED Because: "<LOD"**

naphthalene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

nickel dihydroxide: (Cation conc. entered: 6 mg/kg, converted to compound conc.:9.477 mg/kg or 0.000948%)

pH: (Whole conc. entered as: 8.1 pH, converted to conc.:8.1 pH or 8.1 pH)

phenanthrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Cation conc. entered: <0.2 mg/kg, converted to compound conc.:<0.3 mg/kg or <0.00003%) **IGNORED Because: "<LOD"**

tetrachloroethene (PCE): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**

tetrachloromethane (carbon tetrachloride): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**

toluene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**

TPH (C6 to C40) petroleum group: (Whole conc. entered as: 18 mg/kg or 0.0018%)

trichloroethene (TCE): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**

vinyl chloride: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**

xylylene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**

zinc sulphate: (Cation conc. entered: 17 mg/kg, converted to compound conc.:41.978 mg/kg or 0.0042%)

## Notes utilised in assessment

### C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "cadmium sulfide"  
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "arsenic trioxide"  
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "chromium(III) oxide"  
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "copper (I) oxide"  
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"  
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "nickel dihydroxide"  
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "zinc sulphate"  
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "TPH (C6 to C40) petroleum group"

## Determinand notes

**Note 1** , used on:

determinand: "cadmium sulfide"  
determinand: "lead compounds (with the exception of those listed separately in this Annex)"

**Note A** , used on:

determinand: "lead compounds (with the exception of those listed separately in this Annex)"

**WM3: Unknown oil** , used on:

determinand: "TPH (C6 to C40) petroleum group"

Classification of sample: DS104[1]

✔ **Non Hazardous Waste**  
Classified as **17 05 04**  
in the List of Waste

Sample details

<p>Sample Name: <b>DS104[1]</b></p> <p>Sample Depth: <b>1 m</b></p> <p>Moisture content: <b>17%</b> (no correction)</p>	<p>LoW Code: Chapter:       <b>17: Construction and Demolition Wastes (including excavated soil from contaminated sites)</b></p> <p>Entry:         <b>17 05 04 (Soil and stones other than those mentioned in 17 05 03)</b></p>
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Hazard properties

None identified

Determinands (Moisture content: 17%, no correction)

- acenaphthene: (Whole conc. entered as: 0.16 mg/kg or 0.000016%)
- acenaphthylene: (Whole conc. entered as: 0.44 mg/kg or 0.000044%)
- anthracene: (Whole conc. entered as: 0.21 mg/kg or 0.000021%)
- arsenic trioxide: (Cation conc. entered: 39 mg/kg, converted to compound conc.:51.493 mg/kg or 0.00515%)
- benzene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
- benzo[a]anthracene: (Whole conc. entered as: 0.47 mg/kg or 0.000047%)
- benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: 0.21 mg/kg or 0.000021%)
- benzo[b]fluoranthene: (Whole conc. entered as: 0.38 mg/kg or 0.000038%)
- benzo[ghi]perylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- benzo[k]fluoranthene: (Whole conc. entered as: 0.21 mg/kg or 0.000021%)
- boron tribromide/trichloride/trifluoride (combined): (Cation conc. entered: 0.97 mg/kg, converted to compound conc.:13.027 mg/kg or 0.0013%)
- cadmium sulfide: (Cation conc. entered: 0.36 mg/kg, converted to compound conc.:0.463 mg/kg or 0.0000463%, Note 1 conc.: 0.000036%)
- chromium(III) oxide: (Cation conc. entered: 48 mg/kg, converted to compound conc.:70.155 mg/kg or 0.00702%)
- chromium(VI) oxide: (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.962 mg/kg or <0.0000962%) **IGNORED Because: "<LOD"**
- chrysene: (Whole conc. entered as: 0.41 mg/kg or 0.000041%)
- copper (I) oxide: (Cation conc. entered: 52 mg/kg, converted to compound conc.:58.546 mg/kg or 0.00585%)
- cyanides (with the exception of complex cyanides): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.5 mg/kg or <0.00005%) **IGNORED Because: "<LOD"**
- dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- ethylbenzene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
- fluoranthene: (Whole conc. entered as: 1.3 mg/kg or 0.00013%)
- fluorene: (Whole conc. entered as: 0.43 mg/kg or 0.000043%)
- indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- lead compounds (with the exception of those listed separately in this Annex): (Cation conc. entered: 87 mg/kg, converted to compound conc.:131.37 mg/kg or 0.0131%, Note 1 conc.: 0.0087%)
- mercury dichloride: (Cation conc. entered: <0.1 mg/kg, converted to compound conc.:<0.135 mg/kg or <0.0000135%) **IGNORED Because: "<LOD"**
- naphthalene: (Whole conc. entered as: 2 mg/kg or 0.0002%)
- nickel dihydroxide: (Cation conc. entered: 43 mg/kg, converted to compound conc.:67.918 mg/kg or 0.00679%)
- pH: (Whole conc. entered as: 7.8 pH, converted to conc.:7.8 pH or 7.8 pH)
- phenanthrene: (Whole conc. entered as: 1.6 mg/kg or 0.00016%)
- pyrene: (Whole conc. entered as: 1.2 mg/kg or 0.00012%)



selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Cation conc. entered: <0.2 mg/kg, converted to compound conc.:<0.3 mg/kg or <0.00003%) **IGNORED Because: "<LOD"**  
tetrachloroethene (PCE): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
tetrachloromethane (carbon tetrachloride): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
toluene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
TPH (C6 to C40) petroleum group: (Whole conc. entered as: <10 mg/kg or <0.001%) **IGNORED Because: "<LOD"**  
trichloroethene (TCE): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
vinyl chloride: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
xylene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
zinc sulphate: (Cation conc. entered: 400 mg/kg, converted to compound conc.:987.719 mg/kg or 0.0988%)

## Notes utilised in assessment

### C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "cadmium sulfide"  
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "fluorene"  
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "acenaphthene"  
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "anthracene"  
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "arsenic trioxide"  
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "benzo[a]anthracene"  
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "benzo[a]pyrene; benzo[def]chrysene"  
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "benzo[b]fluoranthene"  
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "benzo[k]fluoranthene"  
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "chromium(III) oxide"  
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "chrysene"  
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "copper (I) oxide"  
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "fluoranthene"  
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"  
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "naphthalene"  
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "nickel dihydroxide"  
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "phenanthrene"  
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "pyrene"  
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "zinc sulphate"

## Determinand notes


**Note 1** , used on:

determinand: "cadmium sulfide"  
determinand: "lead compounds (with the exception of those listed separately in this Annex)"

**Note A** , used on:

determinand: "lead compounds (with the exception of those listed separately in this Annex)"

## Classification of sample: DS102

 **Non Hazardous Waste**  
 Classified as **17 05 04**  
 in the List of Waste

### Sample details

Sample Name:	LoW Code:
<b>DS102</b>	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
<b>0.3 m</b>	
Moisture content: <b>20%</b> (no correction)	

### Hazard properties

None identified

### Determinands (Moisture content: 20%, no correction)

acenaphthene: (Whole conc. entered as: 0.27 mg/kg or 0.000027%)  
 acenaphthylene: (Whole conc. entered as: 0.26 mg/kg or 0.000026%)  
 anthracene: (Whole conc. entered as: 0.12 mg/kg or 0.000012%)  
 arsenic trioxide: (Cation conc. entered: 33 mg/kg, converted to compound conc.:43.571 mg/kg or 0.00436%)  
 benzene: (Whole conc. entered as: <0.001 mg/kg or <0.000001%) **IGNORED Because: "<LOD"**  
 benzo[a]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
 benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
 benzo[b]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
 benzo[ghi]perylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
 benzo[k]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
 boron tribromide/trichloride/trifluoride (combined): (Cation conc. entered: 0.97 mg/kg, converted to compound conc.:13.027 mg/kg or 0.0013%)  
 cadmium sulfide: (Cation conc. entered: 0.19 mg/kg, converted to compound conc.:0.244 mg/kg or 0.0000244%, Note 1 conc.: 0.000019%)  
 chromium(III) oxide: (Cation conc. entered: 40 mg/kg, converted to compound conc.:58.462 mg/kg or 0.00585%)  
 chromium(VI) oxide: (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.962 mg/kg or <0.0000962%) **IGNORED Because: "<LOD"**  
 chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
 copper (I) oxide: (Cation conc. entered: 23 mg/kg, converted to compound conc.:25.895 mg/kg or 0.00259%)  
 cyanides (with the exception of complex cyanides): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.5 mg/kg or <0.00005%) **IGNORED Because: "<LOD"**  
 dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
 ethylbenzene: (Whole conc. entered as: <0.001 mg/kg or <0.000001%) **IGNORED Because: "<LOD"**  
 fluoranthene: (Whole conc. entered as: 0.91 mg/kg or 0.000091%)  
 fluorene: (Whole conc. entered as: 0.4 mg/kg or 0.00004%)  
 indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
 lead compounds (with the exception of those listed separately in this Annex): (Cation conc. entered: 23 mg/kg, converted to compound conc.:34.73 mg/kg or 0.00347%, Note 1 conc.: 0.0023%)  
 mercury dichloride: (Cation conc. entered: <0.1 mg/kg, converted to compound conc.:<0.135 mg/kg or <0.0000135%) **IGNORED Because: "<LOD"**  
 naphthalene: (Whole conc. entered as: 1.1 mg/kg or 0.00011%)  
 nickel dihydroxide: (Cation conc. entered: 38 mg/kg, converted to compound conc.:60.021 mg/kg or 0.006%)  
 pH: (Whole conc. entered as: 7.9 pH, converted to conc.:7.9 pH or 7.9 pH)  
 phenanthrene: (Whole conc. entered as: 0.88 mg/kg or 0.000088%)  
 pyrene: (Whole conc. entered as: 0.69 mg/kg or 0.000069%)

selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Cation conc. entered: <0.2 mg/kg, converted to compound conc.:<0.3 mg/kg or <0.00003%) **IGNORED Because: "<LOD"**  
tetrachloroethene (PCE): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
tetrachloromethane (carbon tetrachloride): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
toluene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
trichloroethene (TCE): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
vinyl chloride: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
xylene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
zinc sulphate: (Cation conc. entered: 89 mg/kg, converted to compound conc.:219.767 mg/kg or 0.022%)

## Notes utilised in assessment

### C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "cadmium sulfide"  
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "fluorene"  
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "acenaphthene"  
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "anthracene"  
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "arsenic trioxide"  
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "chromium(III) oxide"  
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "copper (I) oxide"  
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "fluoranthene"  
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"  
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "naphthalene"  
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "nickel dihydroxide"  
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "phenanthrene"  
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "pyrene"  
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "zinc sulphate"

### Note 1 , used on:

Test: "HP 5 on STOT SE 1; H370, STOT RE 1; H372" for determinand: "cadmium sulfide"  
Test: "HP 5 on STOT SE 2; H371, STOT RE 2; H373" for determinand: "cadmium sulfide"  
Test: "HP 6 on Acute Tox. 4; H302" for determinand: "cadmium sulfide"  
Test: "HP 6 on Acute Tox. 4; H332" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"  
Test: "HP 7 on Carc. 1B; H350, Carc. 1A; H350, Carc. 1B; H350i, Carc. 1A; H350i" for determinand: "cadmium sulfide"  
Test: "HP 7 on Carc. 2; H351" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"  
Test: "HP 10 on Repr. 1A; H360, Repr. 1B; H360, Repr. 1B; H360F, Repr. 1A; H360F, Repr. 1A; H360D, Repr. 1B; H360D, Repr. 1B; H360FD, Repr. 1A; H360FD, Repr. 1A; H360Fd, Repr. 1B; H360Fd, Repr. 1B; H360Df, Repr. 1A; H360Df" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"  
Test: "HP 10 on Repr. 2; H361, Repr. 2; H361f, Repr. 2; H361d, Repr. 2; H361fd" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"  
Test: "HP 11 on Muta. 2; H341" for determinand: "cadmium sulfide"  
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "cadmium sulfide"

## Determinand notes

### Note 1 , used on:

determinand: "cadmium sulfide"  
determinand: "lead compounds (with the exception of those listed separately in this Annex)"

### Note A , used on:

determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Classification of sample: DS105

✔ **Non Hazardous Waste**  
Classified as **17 05 04**  
in the List of Waste

Sample details

<p>Sample Name: <b>DS105</b></p> <p>Sample Depth: <b>0.2 m</b></p> <p>Moisture content: <b>5.6%</b> (no correction)</p>	<p>LoW Code: Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)</p> <p>Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)</p>
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Hazard properties

None identified

Determinands (Moisture content: 5.6%, no correction)

acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

arsenic trioxide: (Cation conc. entered: 33 mg/kg, converted to compound conc.:43.571 mg/kg or 0.00436%)

benzene: (Whole conc. entered as: <0.001 mg/kg or <0.000001%) **IGNORED Because: "<LOD"**

benzo[a]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

benzo[b]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

benzo[ghi]perylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

benzo[k]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

boron tribromide/trichloride/trifluoride (combined): (Cation conc. entered: <0.4 mg/kg, converted to compound conc.:<5.372 mg/kg or <0.000537%) **IGNORED Because: "<LOD"**

cadmium sulfide: (Cation conc. entered: 0.21 mg/kg, converted to compound conc.:0.27 mg/kg or 0.000027%, Note 1 conc.: 0.000021%)

chromium(III) oxide: (Cation conc. entered: 9.5 mg/kg, converted to compound conc.:13.885 mg/kg or 0.00139%)

chromium(VI) oxide: (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.962 mg/kg or <0.0000962%) **IGNORED Because: "<LOD"**

chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

copper (I) oxide: (Cation conc. entered: 2.8 mg/kg, converted to compound conc.:3.152 mg/kg or 0.000315%)

cyanides (with the exception of complex cyanides): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.5 mg/kg or <0.00005%) **IGNORED Because: "<LOD"**

dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

ethylbenzene: (Whole conc. entered as: <0.001 mg/kg or <0.000001%) **IGNORED Because: "<LOD"**

fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

lead compounds (with the exception of those listed separately in this Annex): (Cation conc. entered: 1.8 mg/kg, converted to compound conc.:2.718 mg/kg or 0.000272%, Note 1 conc.: 0.00018%)

mercury dichloride: (Cation conc. entered: <0.1 mg/kg, converted to compound conc.:<0.135 mg/kg or <0.0000135%) **IGNORED Because: "<LOD"**

naphthalene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

nickel dihydroxide: (Cation conc. entered: 4.8 mg/kg, converted to compound conc.:7.582 mg/kg or 0.000758%)

pH: (Whole conc. entered as: 8.4 pH, converted to conc.:8.4 pH or 8.4 pH)

phenanthrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Cation conc. entered: <0.2 mg/kg, converted to compound conc.:<0.3 mg/kg or <0.00003%) **IGNORED Because: "<LOD"**

tetrachloroethene (PCE): (Whole conc. entered as: <0.001 mg/kg or <0.000001%) **IGNORED Because: "<LOD"**

tetrachloromethane (carbon tetrachloride): (Whole conc. entered as: <0.001 mg/kg or <0.000001%) **IGNORED Because: "<LOD"**

toluene: (Whole conc. entered as: <0.001 mg/kg or <0.000001%) **IGNORED Because: "<LOD"**

TPH (C6 to C40) petroleum group: (Whole conc. entered as: <10 mg/kg or <0.001%) **IGNORED Because: "<LOD"**

trichloroethene (TCE): (Whole conc. entered as: <0.001 mg/kg or <0.000001%) **IGNORED Because: "<LOD"**

vinyl chloride: (Whole conc. entered as: <0.001 mg/kg or <0.000001%) **IGNORED Because: "<LOD"**

xylylene: (Whole conc. entered as: <0.001 mg/kg or <0.000001%) **IGNORED Because: "<LOD"**

zinc sulphate: (Cation conc. entered: 14 mg/kg, converted to compound conc.:34.57 mg/kg or 0.00346%)

## Notes utilised in assessment

### C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "cadmium sulfide"  
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "arsenic trioxide"  
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "chromium(III) oxide"  
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "copper (I) oxide"  
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"  
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "nickel dihydroxide"  
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "zinc sulphate"

## Determinand notes


**Note 1** , used on:

determinand: "cadmium sulfide"  
determinand: "lead compounds (with the exception of those listed separately in this Annex)"

**Note A** , used on:

determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Classification of sample: DS105[1]

 **Non Hazardous Waste**  
Classified as **17 05 04**  
in the List of Waste

Sample details

Sample Name:	LoW Code:
<b>DS105[1]</b>	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
<b>2 m</b>	
Moisture content: <b>16%</b> (no correction)	

Hazard properties

None identified


Determinands (Moisture content: 16%, no correction)

phenol: (Whole conc. entered as: <0.5 mg/kg or <0.00005%) **IGNORED Because: "<LOD"**

Notes utilised in assessment

None

## Classification of sample: DS103

 **Non Hazardous Waste**  
Classified as **17 05 04**  
in the List of Waste

## Sample details

Sample Name: <b>DS103</b>	LoW Code: Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth: <b>0.2 m</b>	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
Moisture content: <b>5.5%</b> (no correction)	

## Hazard properties

None identified

## Determinands (Moisture content: 5.5%, no correction)

acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

arsenic trioxide: (Cation conc. entered: 42 mg/kg, converted to compound conc.:55.454 mg/kg or 0.00555%)

benzene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**

benzo[a]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

benzo[b]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

benzo[ghi]perylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

benzo[k]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

boron tribromide/trichloride/trifluoride (combined): (Cation conc. entered: <0.4 mg/kg, converted to compound conc.:<5.372 mg/kg or <0.000537%) **IGNORED Because: "<LOD"**

cadmium sulfide: (Cation conc. entered: 0.27 mg/kg, converted to compound conc.:0.347 mg/kg or 0.0000347%, Note 1 conc.: 0.000027%)

chromium(III) oxide: (Cation conc. entered: 11 mg/kg, converted to compound conc.:16.077 mg/kg or 0.00161%)

chromium(VI) oxide: (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.962 mg/kg or <0.0000962%) **IGNORED Because: "<LOD"**

chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

copper (I) oxide: (Cation conc. entered: 3.2 mg/kg, converted to compound conc.:3.603 mg/kg or 0.00036%)

cyanides (with the exception of complex cyanides): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.5 mg/kg or <0.00005%) **IGNORED Because: "<LOD"**

dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

ethylbenzene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**

fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

lead compounds (with the exception of those listed separately in this Annex): (Cation conc. entered: 1.7 mg/kg, converted to compound conc.:2.567 mg/kg or 0.000257%, Note 1 conc.: 0.00017%)

mercury dichloride: (Cation conc. entered: <0.1 mg/kg, converted to compound conc.:<0.135 mg/kg or <0.0000135%) **IGNORED Because: "<LOD"**

naphthalene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

nickel dihydroxide: (Cation conc. entered: 5.6 mg/kg, converted to compound conc.:8.845 mg/kg or 0.000885%)

pH: (Whole conc. entered as: 8.1 pH, converted to conc.:8.1 pH or 8.1 pH)

phenanthrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Cation conc. entered: <0.2 mg/kg, converted to compound conc.:<0.3 mg/kg or <0.00003%) **IGNORED Because: "<LOD"**  
tetrachloroethene (PCE): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
tetrachloromethane (carbon tetrachloride): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
toluene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
TPH (C6 to C40) petroleum group: (Whole conc. entered as: <10 mg/kg or <0.001%) **IGNORED Because: "<LOD"**  
trichloroethene (TCE): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
vinyl chloride: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
xylene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
zinc sulphate: (Cation conc. entered: 15 mg/kg, converted to compound conc.:37.039 mg/kg or 0.0037%)

## Notes utilised in assessment

### C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "cadmium sulfide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "arsenic trioxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "chromium(III) oxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "copper (I) oxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "nickel dihydroxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "zinc sulphate"

## Determinand notes

**Note 1** , used on:

determinand: "cadmium sulfide"


determinand: "lead compounds (with the exception of those listed separately in this Annex)"

**Note A** , used on:

determinand: "lead compounds (with the exception of those listed separately in this Annex)"



Classification of sample: DS103[1]

 **Non Hazardous Waste**  
Classified as **17 05 04**  
in the List of Waste

Sample details

Sample Name: <b>DS103[1]</b>	LoW Code: Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth: <b>0.6 m</b>	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
Moisture content: <b>15%</b> (no correction)	

Hazard properties

None identified

Determinands (Moisture content: 15%, no correction)

phenol: (Whole conc. entered as: <0.5 mg/kg or <0.00005%) **IGNORED Because: "<LOD"**

Notes utilised in assessment

None

Classification of sample: DS106

**\* Potentially Hazardous Waste**  
Classified as **17 05 04** or **17 05 03 \***  
in the List of Waste

Sample details

Sample Name: <b>DS106</b>	LoW Code: Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth: <b>0.2 m</b>	Entry:	17 05 04 or 17 05 03 * (Soil and stones other than those mentioned in 17 05 03 or Soil and stones containing hazardous substances)
Moisture content: <b>11%</b> (no correction)		

Hazard properties (substances considered hazardous until shown otherwise)

**HP 3(i): Flammable** "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Hazard Statements hit:

**Flam. Liq. 3; H226** "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.007%)

Determinands (Moisture content: 11%, no correction)

acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
arsenic trioxide: (Cation conc. entered: 29 mg/kg, converted to compound conc.:38.289 mg/kg or 0.00383%)  
benzene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
benzo[a]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
benzo[b]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
benzo[ghi]perylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
benzo[k]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
boron tribromide/trichloride/trifluoride (combined): (Cation conc. entered: 0.46 mg/kg, converted to compound conc.:6.178 mg/kg or 0.000618%)  
cadmium sulfide: (Cation conc. entered: 0.21 mg/kg, converted to compound conc.:0.27 mg/kg or 0.000027%, Note 1 conc.: 0.000021%)  
chromium(III) oxide: (Cation conc. entered: 12 mg/kg, converted to compound conc.:17.539 mg/kg or 0.00175%)  
chromium(VI) oxide: (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.962 mg/kg or <0.0000962%) **IGNORED Because: "<LOD"**  
chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
copper (I) oxide: (Cation conc. entered: 2.5 mg/kg, converted to compound conc.:2.815 mg/kg or 0.000281%)  
cyanides (with the exception of complex cyanides): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.5 mg/kg or <0.00005%) **IGNORED Because: "<LOD"**  
dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
ethylbenzene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
lead compounds (with the exception of those listed separately in this Annex): (Cation conc. entered: 2.1 mg/kg, converted to compound conc.:3.171 mg/kg or 0.000317%, Note 1 conc.: 0.00021%)

mercury dichloride: (Cation conc. entered: <0.1 mg/kg, converted to compound conc.:<0.135 mg/kg or <0.0000135%)  
**IGNORED Because: "<LOD"**

naphthalene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

nickel dihydroxide: (Cation conc. entered: 6.2 mg/kg, converted to compound conc.:9.793 mg/kg or 0.000979%)

pH: (Whole conc. entered as: 10.2 pH, converted to conc.:10.2 pH or 10.2 pH)

phenanthrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

pyrene: (Whole conc. entered as: 0.23 mg/kg or 0.000023%)

selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Cation conc. entered: <0.2 mg/kg, converted to compound conc.:<0.3 mg/kg or <0.00003%) **IGNORED Because: "<LOD"**

tetrachloroethene (PCE): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**

tetrachloromethane (carbon tetrachloride): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**

toluene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**

TPH (C6 to C40) petroleum group: (Whole conc. entered as: 70 mg/kg or 0.007%)

trichloroethene (TCE): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**

vinyl chloride: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**

xylylene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**

zinc sulphate: (Cation conc. entered: 15 mg/kg, converted to compound conc.:37.039 mg/kg or 0.0037%)

## Notes utilised in assessment

### C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "cadmium sulfide"  
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "arsenic trioxide"  
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "chromium(III) oxide"  
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "copper (I) oxide"  
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"  
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "nickel dihydroxide"  
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "pyrene"  
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "zinc sulphate"  
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "TPH (C6 to C40) petroleum group"

## Determinand notes

**Note 1** , used on:

determinand: "cadmium sulfide"  
determinand: "lead compounds (with the exception of those listed separately in this Annex)"

**Note A** , used on:

determinand: "lead compounds (with the exception of those listed separately in this Annex)"

**WM3: Unknown oil** , used on:

determinand: "TPH (C6 to C40) petroleum group"

Classification of sample: DS106[1]

✔ **Non Hazardous Waste**  
Classified as **17 05 04**  
in the List of Waste

Sample details

<p>Sample Name: <b>DS106[1]</b></p> <p>Sample Depth: <b>1.5 m</b></p> <p>Moisture content: <b>16%</b> (no correction)</p>	<p>LoW Code: Chapter:     <b>17: Construction and Demolition Wastes (including excavated soil from contaminated sites)</b></p> <p>Entry:       <b>17 05 04 (Soil and stones other than those mentioned in 17 05 03)</b></p>
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Hazard properties

None identified

Determinands (Moisture content: 16%, no correction)

acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

arsenic trioxide: (Cation conc. entered: 33 mg/kg, converted to compound conc.:43.571 mg/kg or 0.00436%)

benzene: (Whole conc. entered as: <0.001 mg/kg or <0.000001%) **IGNORED Because: "<LOD"**

benzo[a]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

benzo[b]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

benzo[ghi]perylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

benzo[k]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

boron tribromide/trichloride/trifluoride (combined): (Cation conc. entered: 0.65 mg/kg, converted to compound conc.:8.73 mg/kg or 0.000873%)

cadmium sulfide: (Cation conc. entered: 0.18 mg/kg, converted to compound conc.:0.231 mg/kg or 0.0000231%, Note 1 conc.: 0.000018%)

chromium(III) oxide: (Cation conc. entered: 41 mg/kg, converted to compound conc.:59.924 mg/kg or 0.00599%)

chromium(VI) oxide: (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.962 mg/kg or <0.0000962%) **IGNORED Because: "<LOD"**

chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

copper (I) oxide: (Cation conc. entered: 20 mg/kg, converted to compound conc.:22.518 mg/kg or 0.00225%)

cyanides (with the exception of complex cyanides): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.5 mg/kg or <0.00005%) **IGNORED Because: "<LOD"**

dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

ethylbenzene: (Whole conc. entered as: <0.001 mg/kg or <0.000001%) **IGNORED Because: "<LOD"**

fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

lead compounds (with the exception of those listed separately in this Annex): (Cation conc. entered: 26 mg/kg, converted to compound conc.:39.26 mg/kg or 0.00393%, Note 1 conc.: 0.0026%)

mercury dichloride: (Cation conc. entered: <0.1 mg/kg, converted to compound conc.:<0.135 mg/kg or <0.0000135%) **IGNORED Because: "<LOD"**

naphthalene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

nickel dihydroxide: (Cation conc. entered: 31 mg/kg, converted to compound conc.:48.964 mg/kg or 0.0049%)

pH: (Whole conc. entered as: 7.7 pH, converted to conc.:7.7 pH or 7.7 pH)

phenanthrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Cation conc. entered: <0.2 mg/kg, converted to compound conc.:<0.3 mg/kg or <0.00003%) **IGNORED Because: "<LOD"**  
tetrachloroethene (PCE): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
tetrachloromethane (carbon tetrachloride): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
toluene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
trichloroethene (TCE): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
vinyl chloride: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
xylene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
zinc sulphate: (Cation conc. entered: 97 mg/kg, converted to compound conc.:239.522 mg/kg or 0.024%)

## Notes utilised in assessment

### C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "cadmium sulfide"  
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "arsenic trioxide"  
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "chromium(III) oxide"  
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "copper (I) oxide"  
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"  
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "nickel dihydroxide"  
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "zinc sulphate"

## Determinand notes


**Note 1** , used on:

determinand: "cadmium sulfide"  
determinand: "lead compounds (with the exception of those listed separately in this Annex)"

**Note A** , used on:

determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Classification of sample: DS107a

 **Non Hazardous Waste**  
Classified as **17 05 04**  
in the List of Waste

Sample details

Sample Name: <b>DS107a</b>	LoW Code:
Sample Depth: <b>0.08 m</b>	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Moisture content: <b>3.2%</b> (no correction)	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified


Determinands (Moisture content: 3.2%, no correction)

phenol: (Whole conc. entered as: <0.5 mg/kg or <0.00005%) **IGNORED Because: "<LOD"**

Notes utilised in assessment

None

Classification of sample: DS107a[1]

 **Hazardous Waste**  
Classified as **17 05 03 \***  
in the List of Waste

Sample details

Sample Name:	LoW Code:
DS107a[1]	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 03 * (Soil and stones containing hazardous substances)
<b>0.9 m</b>	
Moisture content: <b>18%</b> (no correction)	

Hazard properties

**HP 7: Carcinogenic** "waste which induces cancer or increases its incidence"

Hazard Statements hit:

**Carc. 1B; H350** "May cause cancer [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 1%)

**HP 11: Mutagenic** "waste which may cause a mutation, that is a permanent change in the amount or structure of the genetic material in a cell"

Hazard Statements hit:

**Muta. 1B; H340** "May cause genetic defects [state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard]."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 1%)

Hazard properties (substances considered hazardous until shown otherwise)

**HP 3(i): Flammable** "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Hazard Statements hit:

**Flam. Liq. 2; H225** "Highly flammable liquid and vapour."

Because of determinand:

ethylbenzene: (conc.: 0.0000012%)

**Flam. Liq. 3; H226** "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 1%)

Determinands (Moisture content: 18%, no correction)

acenaphthene: (Whole conc. entered as: 0.1 mg/kg or 0.00001%)  
acenaphthylene: (Whole conc. entered as: 0.82 mg/kg or 0.000082%)  
anthracene: (Whole conc. entered as: 0.27 mg/kg or 0.000027%)  
arsenic trioxide: (Cation conc. entered: 28 mg/kg, converted to compound conc.:36.969 mg/kg or 0.0037%)  
benzene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
benzo[a]anthracene: (Whole conc. entered as: 1.4 mg/kg or 0.00014%)

benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: 0.66 mg/kg or 0.000066%)  
benzo[b]fluoranthene: (Whole conc. entered as: 1.9 mg/kg or 0.00019%)  
benzo[ghi]perylene: (Whole conc. entered as: 1.2 mg/kg or 0.00012%)  
benzo[k]fluoranthene: (Whole conc. entered as: 1.1 mg/kg or 0.00011%)  
boron tribromide/trichloride/trifluoride (combined): (Cation conc. entered: 0.8 mg/kg, converted to compound conc.:10.744 mg/kg or 0.00107%)  
cadmium sulfide: (Cation conc. entered: 0.38 mg/kg, converted to compound conc.:0.488 mg/kg or 0.0000488%, Note 1 conc.: 0.000038%)  
chromium(III) oxide: (Cation conc. entered: 34 mg/kg, converted to compound conc.:49.693 mg/kg or 0.00497%)  
chromium(VI) oxide: (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.962 mg/kg or <0.0000962%)  
**IGNORED Because: "<LOD"**  
chrysene: (Whole conc. entered as: 2.2 mg/kg or 0.00022%)  
copper (I) oxide: (Cation conc. entered: 29 mg/kg, converted to compound conc.:32.651 mg/kg or 0.00327%)  
cyanides (with the exception of complex cyanides): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.5 mg/kg or <0.00005%) **IGNORED Because: "<LOD"**  
dibenz[a,h]anthracene: (Whole conc. entered as: 0.65 mg/kg or 0.000065%)  
ethylbenzene: (Whole conc. entered as: 0.012 mg/kg or 0.0000012%)  
fluoranthene: (Whole conc. entered as: 4.9 mg/kg or 0.00049%)  
fluorene: (Whole conc. entered as: 0.24 mg/kg or 0.000024%)  
indeno[123-cd]pyrene: (Whole conc. entered as: 0.91 mg/kg or 0.000091%)  
lead compounds (with the exception of those listed separately in this Annex): (Cation conc. entered: 49 mg/kg, converted to compound conc.:73.99 mg/kg or 0.0074%, Note 1 conc.: 0.0049%)  
mercury dichloride: (Cation conc. entered: 0.35 mg/kg, converted to compound conc.:0.474 mg/kg or 0.0000474%)  
naphthalene: (Whole conc. entered as: 0.62 mg/kg or 0.000062%)  
nickel dihydroxide: (Cation conc. entered: 28 mg/kg, converted to compound conc.:44.226 mg/kg or 0.00442%)  
pH: (Whole conc. entered as: 7.5 pH, converted to conc.:7.5 pH or 7.5 pH)  
phenanthrene: (Whole conc. entered as: 2.6 mg/kg or 0.00026%)  
pyrene: (Whole conc. entered as: 2.9 mg/kg or 0.00029%)  
selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Cation conc. entered: <0.2 mg/kg, converted to compound conc.:<0.3 mg/kg or <0.00003%) **IGNORED Because: "<LOD"**  
tetrachloroethene (PCE): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
tetrachloromethane (carbon tetrachloride): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
toluene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
TPH (C6 to C40) petroleum group: (Whole conc. entered as: 10000 mg/kg or 1%)  
trichloroethene (TCE): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
vinyl chloride: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
xylene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
zinc sulphate: (Cation conc. entered: 190 mg/kg, converted to compound conc.:469.166 mg/kg or 0.0469%)

## Notes utilised in assessment

### C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "acenaphthene"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "anthracene"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "arsenic trioxide"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "benzo[a]anthracene"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "benzo[a]pyrene; benzo[def]chrysene"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "benzo[b]fluoranthene"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "benzo[ghi]perylene"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "benzo[k]fluoranthene"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "chromium(III) oxide"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "chrysene"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "copper (I) oxide"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "dibenz[a,h]anthracene"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "fluoranthene"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "fluorene"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"



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Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "mercury dichloride"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "naphthalene"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "nickel dihydroxide"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "phenanthrene"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "pyrene"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "zinc sulphate"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "cadmium sulfide"

## Determinand notes

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### **Note 1** , used on:

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determinand: "cadmium sulfide"  
determinand: "lead compounds (with the exception of those listed separately in this Annex)"

### **Note A** , used on:

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determinand: "lead compounds (with the exception of those listed separately in this Annex)"

### **WM3: Unknown oil** , used on:

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determinand: "TPH (C6 to C40) petroleum group"

Classification of sample: DS107a[2]

 **Non Hazardous Waste**  
Classified as **17 05 04**  
in the List of Waste

Sample details

Sample Name:	LoW Code:
<b>DS107a[2]</b>	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
<b>2.3 m</b>	
Moisture content: <b>17%</b> (no correction)	

Hazard properties

None identified


Determinands (Moisture content: 17%, no correction)

TPH (C6 to C40) petroleum group: (Whole conc. entered as: <10 mg/kg or <0.001%) **IGNORED Because: "<LOD"**

Notes utilised in assessment

None

## Classification of sample: DS111

 **Non Hazardous Waste**  
Classified as **17 05 04**  
in the List of Waste

## Sample details

Sample Name: <b>DS111</b>	LoW Code: Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth: <b>0.08 m</b>	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
Moisture content: <b>1.3%</b> (no correction)		

## Hazard properties

None identified

## Determinands (Moisture content: 1.3%, no correction)

acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
arsenic trioxide: (Cation conc. entered: 8.6 mg/kg, converted to compound conc.:11.355 mg/kg or 0.00114%)  
benzene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
benzo[a]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
benzo[b]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
benzo[ghi]perylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
benzo[k]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
boron tribromide/trichloride/trifluoride (combined): (Cation conc. entered: <0.4 mg/kg, converted to compound conc.:<5.372 mg/kg or <0.000537%) **IGNORED Because: "<LOD"**  
cadmium sulfide: (Cation conc. entered: <0.1 mg/kg, converted to compound conc.:<0.129 mg/kg or <0.0000129%, Note 1 conc.: <0.00001%) **IGNORED Because: "<LOD"**  
chromium(III) oxide: (Cation conc. entered: 11 mg/kg, converted to compound conc.:16.077 mg/kg or 0.00161%)  
chromium(VI) oxide: (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.962 mg/kg or <0.0000962%) **IGNORED Because: "<LOD"**  
chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
copper (I) oxide: (Cation conc. entered: 20 mg/kg, converted to compound conc.:22.518 mg/kg or 0.00225%)  
cyanides (with the exception of complex cyanides): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.5 mg/kg or <0.00005%) **IGNORED Because: "<LOD"**  
dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
ethylbenzene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
lead compounds (with the exception of those listed separately in this Annex): (Cation conc. entered: 4.9 mg/kg, converted to compound conc.:7.399 mg/kg or 0.00074%, Note 1 conc.: 0.00049%)  
mercury dichloride: (Cation conc. entered: <0.1 mg/kg, converted to compound conc.:<0.135 mg/kg or <0.0000135%) **IGNORED Because: "<LOD"**  
naphthalene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
nickel dihydroxide: (Cation conc. entered: 13 mg/kg, converted to compound conc.:20.533 mg/kg or 0.00205%)  
pH: (Whole conc. entered as: 8.3 pH, converted to conc.:8.3 pH or 8.3 pH)  
phenanthrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Cation conc. entered: <0.2 mg/kg, converted to compound conc.:<0.3 mg/kg or <0.00003%) **IGNORED Because: "<LOD"**  
tetrachloroethene (PCE): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
tetrachloromethane (carbon tetrachloride): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
toluene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
trichloroethene (TCE): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
vinyl chloride: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
xylene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
zinc sulphate: (Cation conc. entered: 39 mg/kg, converted to compound conc.:96.303 mg/kg or 0.00963%)

## Notes utilised in assessment

### C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "arsenic trioxide"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "chromium(III) oxide"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "copper (I) oxide"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "nickel dihydroxide"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "zinc sulphate"

## Determinand notes


**Note 1** , used on:

determinand: "lead compounds (with the exception of those listed separately in this Annex)"

**Note A** , used on:

determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Classification of sample: DS111[1]

 **Non Hazardous Waste**  
Classified as **17 05 04**  
in the List of Waste

Sample details

Sample Name: <b>DS111[1]</b>	LoW Code: Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth: <b>1.3 m</b>	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
Moisture content: <b>14%</b> (no correction)	

Hazard properties

None identified

Determinands (Moisture content: 14%, no correction)

phenol: (Whole conc. entered as: <0.5 mg/kg or <0.00005%) **IGNORED Because: "<LOD"**

Notes utilised in assessment

None

Classification of sample: DS109

✔ **Non Hazardous Waste**  
Classified as **17 05 04**  
in the List of Waste

Sample details

<p>Sample Name: <b>DS109</b></p> <p>Sample Depth: <b>0.1 m</b></p> <p>Moisture content: <b>8.1%</b> (no correction)</p>	<p>LoW Code: Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)</p> <p>Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)</p>
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Hazard properties

None identified

Determinands (Moisture content: 8.1%, no correction)

acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

arsenic trioxide: (Cation conc. entered: 42 mg/kg, converted to compound conc.:55.454 mg/kg or 0.00555%)

benzene: (Whole conc. entered as: <0.001 mg/kg or <0.000001%) **IGNORED Because: "<LOD"**

benzo[a]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

benzo[b]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

benzo[ghi]perylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

benzo[k]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

boron tribromide/trichloride/trifluoride (combined): (Cation conc. entered: <0.4 mg/kg, converted to compound conc.:<5.372 mg/kg or <0.000537%) **IGNORED Because: "<LOD"**

cadmium sulfide: (Cation conc. entered: 0.29 mg/kg, converted to compound conc.:0.373 mg/kg or 0.0000373%, Note 1 conc.: 0.000029%)

chromium(III) oxide: (Cation conc. entered: 11 mg/kg, converted to compound conc.:16.077 mg/kg or 0.00161%)

chromium(VI) oxide: (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.962 mg/kg or <0.0000962%) **IGNORED Because: "<LOD"**

chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

copper (I) oxide: (Cation conc. entered: 1.5 mg/kg, converted to compound conc.:1.689 mg/kg or 0.000169%)

cyanides (with the exception of complex cyanides): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.5 mg/kg or <0.00005%) **IGNORED Because: "<LOD"**

dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

ethylbenzene: (Whole conc. entered as: <0.001 mg/kg or <0.000001%) **IGNORED Because: "<LOD"**

fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

lead compounds (with the exception of those listed separately in this Annex): (Cation conc. entered: 1.1 mg/kg, converted to compound conc.:1.661 mg/kg or 0.000166%, Note 1 conc.: 0.00011%)

mercury dichloride: (Cation conc. entered: <0.1 mg/kg, converted to compound conc.:<0.135 mg/kg or <0.0000135%) **IGNORED Because: "<LOD"**

naphthalene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

nickel dihydroxide: (Cation conc. entered: 4 mg/kg, converted to compound conc.:6.318 mg/kg or 0.000632%)

pH: (Whole conc. entered as: 8.1 pH, converted to conc.:8.1 pH or 8.1 pH)

phenanthrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Cation conc. entered: <0.2 mg/kg, converted to compound conc.:<0.3 mg/kg or <0.00003%) **IGNORED Because: "<LOD"**  
tetrachloroethene (PCE): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
tetrachloromethane (carbon tetrachloride): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
toluene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
TPH (C6 to C40) petroleum group: (Whole conc. entered as: <10 mg/kg or <0.001%) **IGNORED Because: "<LOD"**  
trichloroethene (TCE): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
vinyl chloride: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
xylene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
zinc sulphate: (Cation conc. entered: 13 mg/kg, converted to compound conc.:32.101 mg/kg or 0.00321%)

## Notes utilised in assessment

### C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "arsenic trioxide"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "chromium(III) oxide"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "copper (I) oxide"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "nickel dihydroxide"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "zinc sulphate"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "cadmium sulfide"

## Determinand notes

**Note 1** , used on:

determinand: "cadmium sulfide"  
determinand: "lead compounds (with the exception of those listed separately in this Annex)"

**Note A** , used on:

determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Classification of sample: DS109[1]

✔ **Non Hazardous Waste**  
Classified as **17 05 04**  
in the List of Waste

Sample details

<p>Sample Name: <b>DS109[1]</b></p> <p>Sample Depth: <b>2.2 m</b></p> <p>Moisture content: <b>16%</b> (no correction)</p>	<p>LoW Code: Chapter:       17: Construction and Demolition Wastes (including excavated soil from contaminated sites)</p> <p>Entry:         17 05 04 (Soil and stones other than those mentioned in 17 05 03)</p>
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Hazard properties

None identified

Determinands (Moisture content: 16%, no correction)

- acenaphthene: (Whole conc. entered as: 0.18 mg/kg or 0.000018%)
- acenaphthylene: (Whole conc. entered as: 0.19 mg/kg or 0.000019%)
- anthracene: (Whole conc. entered as: 0.22 mg/kg or 0.000022%)
- arsenic trioxide: (Cation conc. entered: 32 mg/kg, converted to compound conc.:42.25 mg/kg or 0.00423%)
- benzene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
- benzo[a]anthracene: (Whole conc. entered as: 0.8 mg/kg or 0.00008%)
- benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: 0.82 mg/kg or 0.000082%)
- benzo[b]fluoranthene: (Whole conc. entered as: 0.15 mg/kg or 0.000015%)
- benzo[ghi]perylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- benzo[k]fluoranthene: (Whole conc. entered as: 1.2 mg/kg or 0.00012%)
- boron tribromide/trichloride/trifluoride (combined): (Cation conc. entered: 0.81 mg/kg, converted to compound conc.:10.878 mg/kg or 0.00109%)
- cadmium sulfide: (Cation conc. entered: 0.2 mg/kg, converted to compound conc.:0.257 mg/kg or 0.0000257%, Note 1 conc.: 0.00002%)
- chromium(III) oxide: (Cation conc. entered: 86 mg/kg, converted to compound conc.:125.694 mg/kg or 0.0126%)
- chromium(VI) oxide: (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.962 mg/kg or <0.0000962%) **IGNORED Because: "<LOD"**
- chrysene: (Whole conc. entered as: 1.4 mg/kg or 0.00014%)
- copper (I) oxide: (Cation conc. entered: 44 mg/kg, converted to compound conc.:49.539 mg/kg or 0.00495%)
- cyanides (with the exception of complex cyanides): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.5 mg/kg or <0.00005%) **IGNORED Because: "<LOD"**
- dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- ethylbenzene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
- fluoranthene: (Whole conc. entered as: 3.5 mg/kg or 0.00035%)
- fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- lead compounds (with the exception of those listed separately in this Annex): (Cation conc. entered: 17 mg/kg, converted to compound conc.:25.67 mg/kg or 0.00257%, Note 1 conc.: 0.0017%)
- mercury dichloride: (Cation conc. entered: <0.1 mg/kg, converted to compound conc.:<0.135 mg/kg or <0.0000135%) **IGNORED Because: "<LOD"**
- naphthalene: (Whole conc. entered as: 0.71 mg/kg or 0.000071%)
- nickel dihydroxide: (Cation conc. entered: 38 mg/kg, converted to compound conc.:60.021 mg/kg or 0.006%)
- pH: (Whole conc. entered as: 10 pH, converted to conc.:10 pH or 10 pH)
- phenanthrene: (Whole conc. entered as: 1.9 mg/kg or 0.00019%)
- pyrene: (Whole conc. entered as: 1.4 mg/kg or 0.00014%)



selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Cation conc. entered: <0.2 mg/kg, converted to compound conc.:<0.3 mg/kg or <0.00003%) **IGNORED Because: "<LOD"**  
tetrachloroethene (PCE): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
tetrachloromethane (carbon tetrachloride): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
toluene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
trichloroethene (TCE): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
vinyl chloride: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
xylene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
zinc sulphate: (Cation conc. entered: 120 mg/kg, converted to compound conc.:296.316 mg/kg or 0.0296%)

## Notes utilised in assessment

### C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "acenaphthene"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "anthracene"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "arsenic trioxide"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "benzo[a]anthracene"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "benzo[a]pyrene; benzo[def]chrysene"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "benzo[b]fluoranthene"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "benzo[k]fluoranthene"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "chromium(III) oxide"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "chrysene"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "copper (I) oxide"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "fluoranthene"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "naphthalene"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "nickel dihydroxide"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "phenanthrene"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "pyrene"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "zinc sulphate"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "cadmium sulfide"

## Determinand notes

**Note 1** , used on:

determinand: "cadmium sulfide"  
determinand: "lead compounds (with the exception of those listed separately in this Annex)"

**Note A** , used on:

determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Classification of sample: DS110

✔ **Non Hazardous Waste**  
Classified as **17 05 04**  
in the List of Waste

Sample details

<p>Sample Name: <b>DS110</b></p> <p>Sample Depth: <b>1.6 m</b></p> <p>Moisture content: <b>15%</b> (no correction)</p>	<p>LoW Code: Chapter:     <b>17: Construction and Demolition Wastes (including excavated soil from contaminated sites)</b></p> <p>Entry:       <b>17 05 04 (Soil and stones other than those mentioned in 17 05 03)</b></p>
--	---

Hazard properties

None identified

Determinands (Moisture content: 15%, no correction)

acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

arsenic trioxide: (Cation conc. entered: 39 mg/kg, converted to compound conc.:51.493 mg/kg or 0.00515%)

benzene: (Whole conc. entered as: <0.001 mg/kg or <0.000001%) **IGNORED Because: "<LOD"**

benzo[a]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

benzo[b]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

benzo[ghi]perylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

benzo[k]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

boron tribromide/trichloride/trifluoride (combined): (Cation conc. entered: 0.43 mg/kg, converted to compound conc.:5.775 mg/kg or 0.000577%)

cadmium sulfide: (Cation conc. entered: <0.1 mg/kg, converted to compound conc.:<0.129 mg/kg or <0.0000129%, Note 1 conc.: <0.00001%) **IGNORED Because: "<LOD"**

chromium(III) oxide: (Cation conc. entered: 25 mg/kg, converted to compound conc.:36.539 mg/kg or 0.00365%)

chromium(VI) oxide: (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.962 mg/kg or <0.0000962%) **IGNORED Because: "<LOD"**

chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

copper (I) oxide: (Cation conc. entered: 15 mg/kg, converted to compound conc.:16.888 mg/kg or 0.00169%)

cyanides (with the exception of complex cyanides): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.5 mg/kg or <0.00005%) **IGNORED Because: "<LOD"**

dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

ethylbenzene: (Whole conc. entered as: <0.001 mg/kg or <0.000001%) **IGNORED Because: "<LOD"**

fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

lead compounds (with the exception of those listed separately in this Annex): (Cation conc. entered: 8.8 mg/kg, converted to compound conc.:13.288 mg/kg or 0.00133%, Note 1 conc.: 0.00088%)

mercury dichloride: (Cation conc. entered: <0.1 mg/kg, converted to compound conc.:<0.135 mg/kg or <0.0000135%) **IGNORED Because: "<LOD"**

naphthalene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

nickel dihydroxide: (Cation conc. entered: 26 mg/kg, converted to compound conc.:41.067 mg/kg or 0.00411%)

pH: (Whole conc. entered as: 8.1 pH, converted to conc.:8.1 pH or 8.1 pH)

phenanthrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Cation conc. entered: <0.2 mg/kg, converted to compound conc.:<0.3 mg/kg or <0.00003%) **IGNORED Because: "<LOD"**  
tetrachloroethene (PCE): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
tetrachloromethane (carbon tetrachloride): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
toluene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
trichloroethene (TCE): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
vinyl chloride: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
xylene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
zinc sulphate: (Cation conc. entered: 53 mg/kg, converted to compound conc.:130.873 mg/kg or 0.0131%)

## Notes utilised in assessment

### C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "arsenic trioxide"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "chromium(III) oxide"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "copper (I) oxide"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "nickel dihydroxide"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "zinc sulphate"

## Determinand notes

**Note 1** , used on:


determinand: "lead compounds (with the exception of those listed separately in this Annex)"

**Note A** , used on:

determinand: "lead compounds (with the exception of those listed separately in this Annex)"

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Classification of sample: DS110[1]

 **Non Hazardous Waste**  
Classified as **17 05 04**  
in the List of Waste

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**Sample details**

Sample Name:	LoW Code:
<b>DS110[1]</b>	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
<b>1.8 m</b>	
Moisture content: <b>13%</b> (no correction)	

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**Hazard properties**

None identified

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**Determinands** (Moisture content: 13%, no correction)

phenol: (Whole conc. entered as: <0.5 mg/kg or <0.00005%) **IGNORED Because: "<LOD"**

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**Notes utilised in assessment**

None

## Classification of sample: DS112

✔ **Non Hazardous Waste**  
Classified as **17 05 04**  
in the List of Waste

## Sample details

Sample Name: <b>DS112</b>	LoW Code: Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth: <b>0.4 m</b>	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
Moisture content: <b>6.8%</b> (no correction)	

## Hazard properties

None identified

## Determinands (Moisture content: 6.8%, no correction)

acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
arsenic trioxide: (Cation conc. entered: 32 mg/kg, converted to compound conc.:42.25 mg/kg or 0.00423%)  
benzene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
benzo[a]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
benzo[b]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
benzo[ghi]perylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
benzo[k]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
boron tribromide/trichloride/trifluoride (combined): (Cation conc. entered: <0.4 mg/kg, converted to compound conc.:<5.372 mg/kg or <0.000537%) **IGNORED Because: "<LOD"**  
cadmium sulfide: (Cation conc. entered: 0.1 mg/kg, converted to compound conc.:0.129 mg/kg or 0.0000129%, Note 1 conc.: 0.00001%)  
chromium(III) oxide: (Cation conc. entered: 8 mg/kg, converted to compound conc.:11.692 mg/kg or 0.00117%)  
chromium(VI) oxide: (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.962 mg/kg or <0.0000962%) **IGNORED Because: "<LOD"**  
chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
copper (I) oxide: (Cation conc. entered: 1.2 mg/kg, converted to compound conc.:1.351 mg/kg or 0.000135%)  
cyanides (with the exception of complex cyanides): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.5 mg/kg or <0.00005%) **IGNORED Because: "<LOD"**  
dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
ethylbenzene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
lead compounds (with the exception of those listed separately in this Annex): (Cation conc. entered: 0.99 mg/kg, converted to compound conc.:1.495 mg/kg or 0.000149%, Note 1 conc.: 0.000099%)  
mercury dichloride: (Cation conc. entered: <0.1 mg/kg, converted to compound conc.:<0.135 mg/kg or <0.0000135%) **IGNORED Because: "<LOD"**  
naphthalene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
nickel dihydroxide: (Cation conc. entered: 3.4 mg/kg, converted to compound conc.:5.37 mg/kg or 0.000537%)  
pH: (Whole conc. entered as: 8.2 pH, converted to conc.:8.2 pH or 8.2 pH)  
phenanthrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Cation conc. entered: <0.2 mg/kg, converted to compound conc.:<0.3 mg/kg or <0.00003%) **IGNORED Because: "<LOD"**  
tetrachloroethene (PCE): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
tetrachloromethane (carbon tetrachloride): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
toluene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
trichloroethene (TCE): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
vinyl chloride: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
xylene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
zinc sulphate: (Cation conc. entered: 11 mg/kg, converted to compound conc.:27.162 mg/kg or 0.00272%)

## Notes utilised in assessment

### C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "arsenic trioxide"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "chromium(III) oxide"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "copper (I) oxide"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "nickel dihydroxide"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "zinc sulphate"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "cadmium sulfide"

## Determinand notes

**Note 1** , used on:

determinand: "cadmium sulfide"

determinand: "lead compounds (with the exception of those listed separately in this Annex)"

**Note A** , used on:

determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Classification of sample: DS107

✔ **Non Hazardous Waste**  
Classified as **17 05 04**  
in the List of Waste

Sample details

Sample Name: <b>DS107</b>	LoW Code: Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth: <b>0.2 m</b>	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
Moisture content: <b>8.2%</b> (no correction)		

Hazard properties

None identified

Determinands (Moisture content: 8.2%, no correction)

acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

arsenic trioxide: (Cation conc. entered: 28 mg/kg, converted to compound conc.:36.969 mg/kg or 0.0037%)

benzene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**

benzo[a]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

benzo[b]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

benzo[ghi]perylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

benzo[k]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

boron tribromide/trichloride/trifluoride (combined): (Cation conc. entered: <0.4 mg/kg, converted to compound conc.:<5.372 mg/kg or <0.000537%) **IGNORED Because: "<LOD"**

cadmium sulfide: (Cation conc. entered: 0.15 mg/kg, converted to compound conc.:0.193 mg/kg or 0.0000193%, Note 1 conc.: 0.000015%)

chromium(III) oxide: (Cation conc. entered: 7.8 mg/kg, converted to compound conc.:11.4 mg/kg or 0.00114%)

chromium(VI) oxide: (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.962 mg/kg or <0.0000962%) **IGNORED Because: "<LOD"**

chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

copper (I) oxide: (Cation conc. entered: 1.3 mg/kg, converted to compound conc.:1.464 mg/kg or 0.000146%)

cyanides (with the exception of complex cyanides): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.5 mg/kg or <0.00005%) **IGNORED Because: "<LOD"**

dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

ethylbenzene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**

fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

lead compounds (with the exception of those listed separately in this Annex): (Cation conc. entered: 1.1 mg/kg, converted to compound conc.:1.661 mg/kg or 0.000166%, Note 1 conc.: 0.00011%)

mercury dichloride: (Cation conc. entered: <0.1 mg/kg, converted to compound conc.:<0.135 mg/kg or <0.0000135%) **IGNORED Because: "<LOD"**

naphthalene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

nickel dihydroxide: (Cation conc. entered: 3.5 mg/kg, converted to compound conc.:5.528 mg/kg or 0.000553%)

pH: (Whole conc. entered as: 8 pH, converted to conc.:8 pH or 8 pH)

phenanthrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Cation conc. entered: <0.2 mg/kg, converted to compound conc.:<0.3 mg/kg or <0.00003%) **IGNORED Because: "<LOD"**  
tetrachloroethene (PCE): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
tetrachloromethane (carbon tetrachloride): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
toluene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
trichloroethene (TCE): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
vinyl chloride: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
xylene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
zinc sulphate: (Cation conc. entered: 11 mg/kg, converted to compound conc.:27.162 mg/kg or 0.00272%)

## Notes utilised in assessment

### C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "arsenic trioxide"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "chromium(III) oxide"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "copper (I) oxide"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "nickel dihydroxide"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "zinc sulphate"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "cadmium sulfide"

**Note 1** , used on:

Test: "HP 5 on STOT SE 1; H370, STOT RE 1; H372" for determinand: "cadmium sulfide"  
Test: "HP 5 on STOT SE 2; H371, STOT RE 2; H373" for determinand: "cadmium sulfide"  
Test: "HP 6 on Acute Tox. 4; H302" for determinand: "cadmium sulfide"  
Test: "HP 6 on Acute Tox. 4; H332" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"  
Test: "HP 7 on Carc. 1A; H350, Carc. 1A; H350i, Carc. 1B; H350, Carc. 1B; H350i" for determinand: "cadmium sulfide"  
Test: "HP 7 on Carc. 2; H351" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"  
Test: "HP 10 on Repr. 1A; H360, Repr. 1A; H360F, Repr. 1A; H360D, Repr. 1A; H360FD, Repr. 1A; H360Fd, Repr. 1A; H360Df, Repr. 1B; H360, Repr. 1B; H360F, Repr. 1B; H360D, Repr. 1B; H360FD, Repr. 1B; H360Fd, Repr. 1B; H360Df" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"  
Test: "HP 10 on Repr. 2; H361, Repr. 2; H361f, Repr. 2; H361d, Repr. 2; H361fd" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"  
Test: "HP 11 on Muta. 2; H341" for determinand: "cadmium sulfide"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"

## Determinand notes

**Note 1** , used on:


determinand: "cadmium sulfide"  
determinand: "lead compounds (with the exception of those listed separately in this Annex)"

**Note A** , used on:

determinand: "lead compounds (with the exception of those listed separately in this Annex)"



Classification of sample: DS107[1]

 **Non Hazardous Waste**  
Classified as **17 05 04**  
in the List of Waste

Sample details

Sample Name: <b>DS107[1]</b>	LoW Code: Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth: <b>1.3 m</b>	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
Moisture content: <b>14%</b> (no correction)	

Hazard properties

None identified

Determinands (Moisture content: 14%, no correction)


phenol: (Whole conc. entered as: <0.5 mg/kg or <0.00005%) **IGNORED Because: "<LOD"**

Notes utilised in assessment

None

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Classification of sample: DS101

 **Non Hazardous Waste**  
Classified as **17 05 04**  
in the List of Waste

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**Sample details**

Sample Name:	LoW Code:
<b>DS101</b>	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
<b>0.1 m</b>	
Moisture content: <b>7.6%</b> (no correction)	

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**Hazard properties**

None identified

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**Determinands** (Moisture content: 7.6%, no correction)


phenol: (Whole conc. entered as: <0.5 mg/kg or <0.00005%) **IGNORED Because: "<LOD"**

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**Notes utilised in assessment**

None

Classification of sample: DS101[1]

 **Non Hazardous Waste**  
Classified as **17 05 04**  
in the List of Waste

Sample details

Sample Name: <b>DS101[1]</b>	LoW Code: Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth: <b>0.5 m</b>	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
Moisture content: <b>16%</b> (no correction)		

Hazard properties

None identified

Determinands (Moisture content: 16%, no correction)

acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
arsenic trioxide: (Cation conc. entered: 31 mg/kg, converted to compound conc.:40.93 mg/kg or 0.00409%)  
benzene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
benzo[a]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
benzo[b]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
benzo[ghi]perylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
benzo[k]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
boron tribromide/trichloride/trifluoride (combined): (Cation conc. entered: 0.55 mg/kg, converted to compound conc.:7.387 mg/kg or 0.000739%)  
cadmium sulfide: (Cation conc. entered: 0.14 mg/kg, converted to compound conc.:0.18 mg/kg or 0.000018%, Note 1 conc.: 0.000014%)  
chromium(III) oxide: (Cation conc. entered: 46 mg/kg, converted to compound conc.:67.232 mg/kg or 0.00672%)  
chromium(VI) oxide: (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.962 mg/kg or <0.0000962%) **IGNORED Because: "<LOD"**  
chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
copper (I) oxide: (Cation conc. entered: 24 mg/kg, converted to compound conc.:27.021 mg/kg or 0.0027%)  
cyanides (with the exception of complex cyanides): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.5 mg/kg or <0.00005%) **IGNORED Because: "<LOD"**  
dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
ethylbenzene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
lead compounds (with the exception of those listed separately in this Annex): (Cation conc. entered: 14 mg/kg, converted to compound conc.:21.14 mg/kg or 0.00211%, Note 1 conc.: 0.0014%)  
mercury dichloride: (Cation conc. entered: <0.1 mg/kg, converted to compound conc.:<0.135 mg/kg or <0.0000135%) **IGNORED Because: "<LOD"**  
naphthalene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
nickel dihydroxide: (Cation conc. entered: 40 mg/kg, converted to compound conc.:63.18 mg/kg or 0.00632%)  
pH: (Whole conc. entered as: 7.4 pH, converted to conc.:7.4 pH or 7.4 pH)  
phenanthrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Cation conc. entered: <0.2 mg/kg, converted to compound conc.:<0.3 mg/kg or <0.00003%) **IGNORED Because: "<LOD"**  
tetrachloroethene (PCE): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
tetrachloromethane (carbon tetrachloride): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
toluene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
trichloroethene (TCE): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
vinyl chloride: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
xylene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
zinc sulphate: (Cation conc. entered: 69 mg/kg, converted to compound conc.:170.381 mg/kg or 0.017%)

## Notes utilised in assessment

### C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "arsenic trioxide"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "chromium(III) oxide"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "copper (I) oxide"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "nickel dihydroxide"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "zinc sulphate"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "cadmium sulfide"

## Determinand notes

**Note 1** , used on:


determinand: "cadmium sulfide"

determinand: "lead compounds (with the exception of those listed separately in this Annex)"

**Note A** , used on:

determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Classification of sample: DS108

 **Non Hazardous Waste**  
Classified as **17 05 04**  
in the List of Waste

Sample details

Sample Name: <b>DS108</b>	LoW Code: Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth: <b>0.1 m</b>	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
Moisture content: <b>9.5%</b> (no correction)	

Hazard properties

None identified

Determinands (Moisture content: 9.5%, no correction)

phenol: (Whole conc. entered as: <0.5 mg/kg or <0.00005%) **IGNORED Because: "<LOD"**

Notes utilised in assessment

None

Classification of sample: DS108[1]

✔ **Non Hazardous Waste**  
Classified as **17 05 04**  
in the List of Waste

Sample details

<p>Sample Name: <b>DS108[1]</b></p> <p>Sample Depth: <b>0.7 m</b></p> <p>Moisture content: <b>15%</b> (no correction)</p>	<p>LoW Code: Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)</p> <p>Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)</p>
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Hazard properties

None identified

Determinands (Moisture content: 15%, no correction)

acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

arsenic trioxide: (Cation conc. entered: 29 mg/kg, converted to compound conc.:38.289 mg/kg or 0.00383%)

benzene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**

benzo[a]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

benzo[b]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

benzo[ghi]perylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

benzo[k]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

boron tribromide/trichloride/trifluoride (combined): (Cation conc. entered: 0.51 mg/kg, converted to compound conc.:6.849 mg/kg or 0.000685%)

cadmium sulfide: (Cation conc. entered: 0.17 mg/kg, converted to compound conc.:0.218 mg/kg or 0.0000218%, Note 1 conc.: 0.000017%)

chromium(III) oxide: (Cation conc. entered: 35 mg/kg, converted to compound conc.:51.154 mg/kg or 0.00512%)

chromium(VI) oxide: (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.962 mg/kg or <0.0000962%) **IGNORED Because: "<LOD"**

chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

copper (I) oxide: (Cation conc. entered: 23 mg/kg, converted to compound conc.:25.895 mg/kg or 0.00259%)

cyanides (with the exception of complex cyanides): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.5 mg/kg or <0.00005%) **IGNORED Because: "<LOD"**

dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

ethylbenzene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**

fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

lead compounds (with the exception of those listed separately in this Annex): (Cation conc. entered: 13 mg/kg, converted to compound conc.:19.63 mg/kg or 0.00196%, Note 1 conc.: 0.0013%)

mercury dichloride: (Cation conc. entered: <0.1 mg/kg, converted to compound conc.:<0.135 mg/kg or <0.0000135%) **IGNORED Because: "<LOD"**

naphthalene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

nickel dihydroxide: (Cation conc. entered: 35 mg/kg, converted to compound conc.:55.282 mg/kg or 0.00553%)

pH: (Whole conc. entered as: 7.8 pH, converted to conc.:7.8 pH or 7.8 pH)

phenanthrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Cation conc. entered: <0.2 mg/kg, converted to compound conc.:<0.3 mg/kg or <0.00003%) **IGNORED Because: "<LOD"**  
tetrachloroethene (PCE): (Whole conc. entered as: <0.001 mg/kg or <0.000001%) **IGNORED Because: "<LOD"**  
tetrachloromethane (carbon tetrachloride): (Whole conc. entered as: <0.001 mg/kg or <0.000001%) **IGNORED Because: "<LOD"**  
toluene: (Whole conc. entered as: <0.001 mg/kg or <0.000001%) **IGNORED Because: "<LOD"**  
trichloroethene (TCE): (Whole conc. entered as: <0.001 mg/kg or <0.000001%) **IGNORED Because: "<LOD"**  
vinyl chloride: (Whole conc. entered as: <0.001 mg/kg or <0.000001%) **IGNORED Because: "<LOD"**  
xylene: (Whole conc. entered as: <0.001 mg/kg or <0.000001%) **IGNORED Because: "<LOD"**  
zinc sulphate: (Cation conc. entered: 64 mg/kg, converted to compound conc.:158.035 mg/kg or 0.0158%)

## Notes utilised in assessment

### C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "arsenic trioxide"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "chromium(III) oxide"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "copper (I) oxide"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "nickel dihydroxide"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "zinc sulphate"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "cadmium sulfide"

## Determinand notes

**Note 1** , used on:

determinand: "cadmium sulfide"  
determinand: "lead compounds (with the exception of those listed separately in this Annex)"

**Note A** , used on:

determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Classification of sample: DS113

✔ **Non Hazardous Waste**  
Classified as **17 05 04**  
in the List of Waste

Sample details

<p>Sample Name: <b>DS113</b></p> <p>Sample Depth: <b>0.2 m</b></p> <p>Moisture content: <b>8.7%</b> (no correction)</p>	<p>LoW Code: Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)</p> <p>Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)</p>
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Hazard properties

None identified

Determinands (Moisture content: 8.7%, no correction)

acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

arsenic trioxide: (Cation conc. entered: 36 mg/kg, converted to compound conc.:47.532 mg/kg or 0.00475%)

benzene: (Whole conc. entered as: <0.001 mg/kg or <0.000001%) **IGNORED Because: "<LOD"**

benzo[a]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

benzo[b]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

benzo[ghi]perylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

benzo[k]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

boron tribromide/trichloride/trifluoride (combined): (Cation conc. entered: <0.4 mg/kg, converted to compound conc.:<5.372 mg/kg or <0.000537%) **IGNORED Because: "<LOD"**

cadmium sulfide: (Cation conc. entered: 0.25 mg/kg, converted to compound conc.:0.321 mg/kg or 0.0000321%, Note 1 conc.: 0.000025%)

chromium(III) oxide: (Cation conc. entered: 9.6 mg/kg, converted to compound conc.:14.031 mg/kg or 0.0014%)

chromium(VI) oxide: (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.962 mg/kg or <0.0000962%) **IGNORED Because: "<LOD"**

chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

copper (I) oxide: (Cation conc. entered: 1.1 mg/kg, converted to compound conc.:1.238 mg/kg or 0.000124%)

cyanides (with the exception of complex cyanides): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.5 mg/kg or <0.00005%) **IGNORED Because: "<LOD"**

dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

ethylbenzene: (Whole conc. entered as: <0.001 mg/kg or <0.000001%) **IGNORED Because: "<LOD"**

fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

lead compounds (with the exception of those listed separately in this Annex): (Cation conc. entered: 1.2 mg/kg, converted to compound conc.:1.812 mg/kg or 0.000181%, Note 1 conc.: 0.00012%)

mercury dichloride: (Cation conc. entered: <0.1 mg/kg, converted to compound conc.:<0.135 mg/kg or <0.0000135%) **IGNORED Because: "<LOD"**

naphthalene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

nickel dihydroxide: (Cation conc. entered: 3.6 mg/kg, converted to compound conc.:5.686 mg/kg or 0.000569%)

pH: (Whole conc. entered as: 8 pH, converted to conc.:8 pH or 8 pH)

phenanthrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**



selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Cation conc. entered: <0.2 mg/kg, converted to compound conc.:<0.3 mg/kg or <0.00003%) **IGNORED Because: "<LOD"**

tetrachloroethene (PCE): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**

tetrachloromethane (carbon tetrachloride): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**

toluene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**

TPH (C6 to C40) petroleum group: (Whole conc. entered as: <10 mg/kg or <0.001%) **IGNORED Because: "<LOD"**

trichloroethene (TCE): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**

vinyl chloride: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**

xylylene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**

zinc sulphate: (Cation conc. entered: 11 mg/kg, converted to compound conc.:27.162 mg/kg or 0.00272%)

## Notes utilised in assessment

### C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "arsenic trioxide"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "chromium(III) oxide"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "copper (I) oxide"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "nickel dihydroxide"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "zinc sulphate"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "cadmium sulfide"

## Determinand notes

**Note 1** , used on:


determinand: "cadmium sulfide"

determinand: "lead compounds (with the exception of those listed separately in this Annex)"

**Note A** , used on:

determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Classification of sample: DS113[1]

 **Non Hazardous Waste**  
Classified as **17 05 04**  
in the List of Waste

Sample details

Sample Name:	LoW Code:
<b>DS113[1]</b>	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
<b>1.8 m</b>	
Moisture content: <b>14%</b> (no correction)	

Hazard properties

None identified


Determinands (Moisture content: 14%, no correction)

phenol: (Whole conc. entered as: <0.5 mg/kg or <0.00005%) **IGNORED Because: "<LOD"**

Notes utilised in assessment

None

## Classification of sample: DS114

 **Non Hazardous Waste**  
Classified as **17 05 04**  
in the List of Waste

## Sample details

Sample Name: <b>DS114</b>	LoW Code: Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth: <b>0.7 m</b>	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
Moisture content: <b>17%</b> (no correction)	

## Hazard properties

None identified

## Determinands (Moisture content: 17%, no correction)

acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

arsenic trioxide: (Cation conc. entered: 32 mg/kg, converted to compound conc.:42.25 mg/kg or 0.00423%)

benzene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**

benzo[a]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

benzo[b]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

benzo[ghi]perylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

benzo[k]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

boron tribromide/trichloride/trifluoride (combined): (Cation conc. entered: 0.65 mg/kg, converted to compound conc.:8.73 mg/kg or 0.000873%)

cadmium sulfide: (Cation conc. entered: 0.13 mg/kg, converted to compound conc.:0.167 mg/kg or 0.0000167%, Note 1 conc.: 0.000013%)

chromium(III) oxide: (Cation conc. entered: 36 mg/kg, converted to compound conc.:52.616 mg/kg or 0.00526%)

chromium(VI) oxide: (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.962 mg/kg or <0.0000962%) **IGNORED Because: "<LOD"**

chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

copper (I) oxide: (Cation conc. entered: 24 mg/kg, converted to compound conc.:27.021 mg/kg or 0.0027%)

cyanides (with the exception of complex cyanides): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.5 mg/kg or <0.00005%) **IGNORED Because: "<LOD"**

dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

ethylbenzene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**

fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

lead compounds (with the exception of those listed separately in this Annex): (Cation conc. entered: 13 mg/kg, converted to compound conc.:19.63 mg/kg or 0.00196%, Note 1 conc.: 0.0013%)

mercury dichloride: (Cation conc. entered: <0.1 mg/kg, converted to compound conc.:<0.135 mg/kg or <0.0000135%) **IGNORED Because: "<LOD"**

naphthalene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

nickel dihydroxide: (Cation conc. entered: 38 mg/kg, converted to compound conc.:60.021 mg/kg or 0.006%)

pH: (Whole conc. entered as: 7.7 pH, converted to conc.:7.7 pH or 7.7 pH)

phenanthrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Cation conc. entered: <0.2 mg/kg, converted to compound conc.:<0.3 mg/kg or <0.00003%) **IGNORED Because: "<LOD"**  
tetrachloroethene (PCE): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
tetrachloromethane (carbon tetrachloride): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
toluene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
trichloroethene (TCE): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
vinyl chloride: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
xylene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
zinc sulphate: (Cation conc. entered: 65 mg/kg, converted to compound conc.:160.504 mg/kg or 0.0161%)

## Notes utilised in assessment

### C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "arsenic trioxide"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "chromium(III) oxide"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "copper (I) oxide"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "nickel dihydroxide"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "zinc sulphate"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "cadmium sulfide"

## Determinand notes

**Note 1** , used on:


determinand: "cadmium sulfide"

determinand: "lead compounds (with the exception of those listed separately in this Annex)"

**Note A** , used on:

determinand: "lead compounds (with the exception of those listed separately in this Annex)"

## Classification of sample: BH108

 **Non Hazardous Waste**  
Classified as **17 05 04**  
in the List of Waste

## Sample details

Sample Name:	LoW Code:
<b>BH108</b>	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
<b>2.5 m</b>	
Moisture content: <b>15%</b> (no correction)	

## Hazard properties

None identified

## Determinands (Moisture content: 15%, no correction)

acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
arsenic trioxide: (Cation conc. entered: 31 mg/kg, converted to compound conc.:40.93 mg/kg or 0.00409%)  
benzene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
benzo[a]anthracene: (Whole conc. entered as: 0.29 mg/kg or 0.000029%)  
benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
benzo[b]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
benzo[ghi]perylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
benzo[k]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
boron tribromide/trichloride/trifluoride (combined): (Cation conc. entered: 0.55 mg/kg, converted to compound conc.:7.387 mg/kg or 0.000739%)  
cadmium sulfide: (Cation conc. entered: 0.22 mg/kg, converted to compound conc.:0.283 mg/kg or 0.0000283%, Note 1 conc.: 0.000022%)  
chromium(III) oxide: (Cation conc. entered: 37 mg/kg, converted to compound conc.:54.078 mg/kg or 0.00541%)  
chromium(VI) oxide: (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.962 mg/kg or <0.0000962%) **IGNORED Because: "<LOD"**  
chrysene: (Whole conc. entered as: 0.47 mg/kg or 0.000047%)  
copper (I) oxide: (Cation conc. entered: 23 mg/kg, converted to compound conc.:25.895 mg/kg or 0.00259%)  
cyanides (with the exception of complex cyanides): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.5 mg/kg or <0.00005%) **IGNORED Because: "<LOD"**  
dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
ethylbenzene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
fluoranthene: (Whole conc. entered as: 0.59 mg/kg or 0.000059%)  
fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
lead compounds (with the exception of those listed separately in this Annex): (Cation conc. entered: 22 mg/kg, converted to compound conc.:33.22 mg/kg or 0.00332%, Note 1 conc.: 0.0022%)  
mercury dichloride: (Cation conc. entered: 0.19 mg/kg, converted to compound conc.:0.257 mg/kg or 0.0000257%)  
naphthalene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
nickel dihydroxide: (Cation conc. entered: 38 mg/kg, converted to compound conc.:60.021 mg/kg or 0.006%)  
pH: (Whole conc. entered as: 7.7 pH, converted to conc.:7.7 pH or 7.7 pH)  
phenanthrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
pyrene: (Whole conc. entered as: 0.54 mg/kg or 0.000054%)  
selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Cation conc. entered: <0.2 mg/kg, converted to compound conc.:<0.3 mg/kg or <0.00003%) **IGNORED Because: "<LOD"**

tetrachloroethene (PCE): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
tetrachloromethane (carbon tetrachloride): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
toluene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
TPH (C6 to C40) petroleum group: (Whole conc. entered as: <10 mg/kg or <0.001%) **IGNORED Because: "<LOD"**  
trichloroethene (TCE): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
vinyl chloride: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
xylene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
zinc sulphate: (Cation conc. entered: 77 mg/kg, converted to compound conc.:190.136 mg/kg or 0.019%)

## Notes utilised in assessment

### C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "arsenic trioxide"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "benzo[a]anthracene"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "chromium(III) oxide"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "chrysene"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "copper (I) oxide"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "fluoranthene"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "mercury dichloride"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "nickel dihydroxide"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "pyrene"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "zinc sulphate"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "cadmium sulfide"

**Note 1** , used on:

Test: "HP 5 on STOT SE 1; H370, STOT RE 1; H372" for determinand: "cadmium sulfide"  
Test: "HP 5 on STOT SE 2; H371, STOT RE 2; H373" for determinand: "cadmium sulfide"  
Test: "HP 6 on Acute Tox. 4; H302" for determinand: "cadmium sulfide"  
Test: "HP 6 on Acute Tox. 4; H332" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"  
Test: "HP 7 on Carc. 1A; H350, Carc. 1A; H350i, Carc. 1B; H350, Carc. 1B; H350i" for determinand: "cadmium sulfide"  
Test: "HP 7 on Carc. 2; H351" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"  
Test: "HP 10 on Repr. 1A; H360, Repr. 1A; H360F, Repr. 1A; H360D, Repr. 1A; H360FD, Repr. 1A; H360Fd, Repr. 1A; H360Df, Repr. 1B; H360, Repr. 1B; H360F, Repr. 1B; H360D, Repr. 1B; H360FD, Repr. 1B; H360Fd, Repr. 1B; H360Df" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"  
Test: "HP 10 on Repr. 2; H361, Repr. 2; H361f, Repr. 2; H361d, Repr. 2; H361fd" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"  
Test: "HP 11 on Muta. 2; H341" for determinand: "cadmium sulfide"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"

## Determinand notes

**Note 1** , used on:

determinand: "cadmium sulfide"  
determinand: "lead compounds (with the exception of those listed separately in this Annex)"

**Note A** , used on:

determinand: "lead compounds (with the exception of those listed separately in this Annex)"

## Classification of sample: DS116

✔ **Non Hazardous Waste**  
Classified as **17 05 04**  
in the List of Waste

## Sample details

Sample Name: <b>DS116</b>	LoW Code: Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth: <b>0.2 m</b>	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
Moisture content: <b>7.9%</b> (no correction)	

## Hazard properties

None identified

## Determinands (Moisture content: 7.9%, no correction)

acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

arsenic trioxide: (Cation conc. entered: 18 mg/kg, converted to compound conc.:23.766 mg/kg or 0.00238%)

benzene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**

benzo[a]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

benzo[b]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

benzo[ghi]perylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

benzo[k]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

boron tribromide/trichloride/trifluoride (combined): (Cation conc. entered: <0.4 mg/kg, converted to compound conc.:<5.372 mg/kg or <0.000537%) **IGNORED Because: "<LOD"**

cadmium sulfide: (Cation conc. entered: 0.15 mg/kg, converted to compound conc.:0.193 mg/kg or 0.0000193%, Note 1 conc.: 0.000015%)

chromium(III) oxide: (Cation conc. entered: 5.2 mg/kg, converted to compound conc.:7.6 mg/kg or 0.00076%)

chromium(VI) oxide: (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.962 mg/kg or <0.0000962%) **IGNORED Because: "<LOD"**

chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

copper (I) oxide: (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.563 mg/kg or <0.0000563%) **IGNORED Because: "<LOD"**

cyanides (with the exception of complex cyanides): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.5 mg/kg or <0.00005%) **IGNORED Because: "<LOD"**

dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

ethylbenzene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**

fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

lead compounds (with the exception of those listed separately in this Annex): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.755 mg/kg or <0.0000755%, Note 1 conc.: <0.00005%) **IGNORED Because: "<LOD"**

mercury dichloride: (Cation conc. entered: <0.1 mg/kg, converted to compound conc.:<0.135 mg/kg or <0.0000135%) **IGNORED Because: "<LOD"**

naphthalene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

nickel dihydroxide: (Cation conc. entered: 1.6 mg/kg, converted to compound conc.:2.527 mg/kg or 0.000253%)

pH: (Whole conc. entered as: 8.1 pH, converted to conc.:8.1 pH or 8.1 pH)

phenanthrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Cation conc. entered: <0.2 mg/kg, converted to compound conc.:<0.3 mg/kg or <0.00003%) **IGNORED Because: "<LOD"**  
tetrachloroethene (PCE): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
tetrachloromethane (carbon tetrachloride): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
toluene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
TPH (C6 to C40) petroleum group: (Whole conc. entered as: <10 mg/kg or <0.001%) **IGNORED Because: "<LOD"**  
trichloroethene (TCE): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
vinyl chloride: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
xylene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
zinc sulphate: (Cation conc. entered: 4.1 mg/kg, converted to compound conc.:10.124 mg/kg or 0.00101%)

## Notes utilised in assessment

### C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

- Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "arsenic trioxide"
- Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "chromium(III) oxide"
- Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "nickel dihydroxide"
- Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "zinc sulphate"
- Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "cadmium sulfide"


## Determinand notes

**Note 1** , used on:

determinand: "cadmium sulfide"



Classification of sample: DS116[1]

 **Non Hazardous Waste**  
Classified as **17 05 04**  
in the List of Waste

Sample details

Sample Name: <b>DS116[1]</b>	LoW Code: Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth: <b>0.3 m</b>	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
Moisture content: <b>15%</b> (no correction)	

Hazard properties

None identified

Determinands (Moisture content: 15%, no correction)

phenol: (Whole conc. entered as: <0.5 mg/kg or <0.00005%) **IGNORED Because: "<LOD"**

Notes utilised in assessment

None

Classification of sample: BH108[1]

**\* Potentially Hazardous Waste**  
Classified as **17 05 04** or **17 05 03 \***  
in the List of Waste

Sample details

<p>Sample Name: <b>BH108[1]</b></p> <p>Sample Depth: <b>8 m</b></p> <p>Moisture content: <b>20%</b> (no correction)</p>	<p>LoW Code: Chapter:      <b>17: Construction and Demolition Wastes (including excavated soil from contaminated sites)</b></p> <p>Entry:         <b>17 05 04 or 17 05 03 * (Soil and stones other than those mentioned in 17 05 03 or Soil and stones containing hazardous substances)</b></p>
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Hazard properties (substances considered hazardous until shown otherwise)

**HP 12: Release of an acute toxic gas** "waste which releases acute toxic gases (Acute Tox. 1, 2 or 3) in contact with water or an acid"

Hazard Statements hit:

**EUH032** "Contact with acids liberates very toxic gas"

Because of determinand:

cyanides (with the exception of complex cyanides): (conc.: 0.00023%)

Determinands (Moisture content: 20%, no correction)

- acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- arsenic trioxide: (Cation conc. entered: 49 mg/kg, converted to compound conc.:64.696 mg/kg or 0.00647%)
- benzene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
- benzo[a]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- benzo[b]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- benzo[ghi]perylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- benzo[k]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- boron tribromide/trichloride/trifluoride (combined): (Cation conc. entered: 2 mg/kg, converted to compound conc.:26.86 mg/kg or 0.00269%)
- cadmium sulfide: (Cation conc. entered: 0.49 mg/kg, converted to compound conc.:0.63 mg/kg or 0.000063%, Note 1 conc.: 0.000049%)
- chromium(III) oxide: (Cation conc. entered: 59 mg/kg, converted to compound conc.:86.232 mg/kg or 0.00862%)
- chromium(VI) oxide: (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.962 mg/kg or <0.0000962%) **IGNORED Because: "<LOD"**
- chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- copper (I) oxide: (Cation conc. entered: 15 mg/kg, converted to compound conc.:16.888 mg/kg or 0.00169%)
- cyanides (with the exception of complex cyanides): (Cation conc. entered: 2.3 mg/kg, converted to compound conc.:2.3 mg/kg or 0.00023%)
- dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- ethylbenzene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**
- fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- lead compounds (with the exception of those listed separately in this Annex): (Cation conc. entered: 220 mg/kg, converted to compound conc.:332.2 mg/kg or 0.0332%, Note 1 conc.: 0.022%)

mercury dichloride: (Cation conc. entered: <0.1 mg/kg, converted to compound conc.:<0.135 mg/kg or <0.0000135%)  
**IGNORED Because: "<LOD"**

naphthalene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

nickel dihydroxide: (Cation conc. entered: 29 mg/kg, converted to compound conc.:45.805 mg/kg or 0.00458%)

pH: (Whole conc. entered as: 7.9 pH, converted to conc.:7.9 pH or 7.9 pH)

phenanthrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Cation conc. entered: 0.5 mg/kg, converted to compound conc.:0.75 mg/kg or 0.000075%)

tetrachloroethene (PCE): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**

tetrachloromethane (carbon tetrachloride): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**

toluene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**

trichloroethene (TCE): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**

vinyl chloride: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**

xylylene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**

zinc sulphate: (Cation conc. entered: 830 mg/kg, converted to compound conc.:2049.516 mg/kg or 0.205%)

## Notes utilised in assessment

### C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ...", used on:

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "arsenic trioxide"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "chromium(III) oxide"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "copper (I) oxide"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "cyanides (with the exception of complex cyanides)"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "nickel dihydroxide"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite)"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "cadmium sulfide"

### Note 1 , used on:

Test: "HP 5 on STOT SE 1; H370, STOT RE 1; H372" for determinand: "cadmium sulfide"

Test: "HP 5 on STOT SE 2; H371, STOT RE 2; H373" for determinand: "cadmium sulfide"

Test: "HP 6 on Acute Tox. 4; H302" for determinand: "cadmium sulfide"

Test: "HP 6 on Acute Tox. 4; H332" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Test: "HP 7 on Carc. 1A; H350, Carc. 1A; H350i, Carc. 1B; H350, Carc. 1B; H350i" for determinand: "cadmium sulfide"

Test: "HP 7 on Carc. 2; H351" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Test: "HP 10 on Repr. 1A; H360, Repr. 1A; H360F, Repr. 1A; H360D, Repr. 1A; H360FD, Repr. 1A; H360Fd, Repr. 1A; H360Df, Repr. 1B; H360, Repr. 1B; H360F, Repr. 1B; H360D, Repr. 1B; H360FD, Repr. 1B; H360Fd, Repr. 1B; H360Df" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Test: "HP 10 on Repr. 2; H361, Repr. 2; H361f, Repr. 2; H361d, Repr. 2; H361fd" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Test: "HP 11 on Muta. 2; H341" for determinand: "cadmium sulfide"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"

## Determinand notes

### Note 1 , used on:

determinand: "cadmium sulfide"

determinand: "lead compounds (with the exception of those listed separately in this Annex)"

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**Note A** , used on:

determinand: "cyanides (with the exception of complex cyanides)"

determinand: "lead compounds (with the exception of those listed separately in this Annex)"

determinand: "selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite)"

## Classification of sample: BH110

✔ **Non Hazardous Waste**  
Classified as **17 05 04**  
in the List of Waste

## Sample details

Sample Name: <b>BH110</b>	LoW Code: Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth: <b>2.5 m</b>	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
Moisture content: <b>9.9%</b> (no correction)	

## Hazard properties

None identified

## Determinands (Moisture content: 9.9%, no correction)

acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

arsenic trioxide: (Cation conc. entered: 37 mg/kg, converted to compound conc.:48.852 mg/kg or 0.00489%)

benzene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**

benzo[a]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

benzo[b]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

benzo[ghi]perylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

benzo[k]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

boron tribromide/trichloride/trifluoride (combined): (Cation conc. entered: <0.4 mg/kg, converted to compound conc.:<5.372 mg/kg or <0.000537%) **IGNORED Because: "<LOD"**

cadmium sulfide: (Cation conc. entered: 0.11 mg/kg, converted to compound conc.:0.141 mg/kg or 0.0000141%, Note 1 conc.: 0.000011%)

chromium(III) oxide: (Cation conc. entered: 20 mg/kg, converted to compound conc.:29.231 mg/kg or 0.00292%)

chromium(VI) oxide: (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.962 mg/kg or <0.0000962%) **IGNORED Because: "<LOD"**

chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

copper (I) oxide: (Cation conc. entered: 9.7 mg/kg, converted to compound conc.:10.921 mg/kg or 0.00109%)

cyanides (with the exception of complex cyanides): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.5 mg/kg or <0.00005%) **IGNORED Because: "<LOD"**

dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

ethylbenzene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**

fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

lead compounds (with the exception of those listed separately in this Annex): (Cation conc. entered: 17 mg/kg, converted to compound conc.:25.67 mg/kg or 0.00257%, Note 1 conc.: 0.0017%)

mercury dichloride: (Cation conc. entered: <0.1 mg/kg, converted to compound conc.:<0.135 mg/kg or <0.0000135%) **IGNORED Because: "<LOD"**

naphthalene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

nickel dihydroxide: (Cation conc. entered: 18 mg/kg, converted to compound conc.:28.431 mg/kg or 0.00284%)

pH: (Whole conc. entered as: 7.9 pH, converted to conc.:7.9 pH or 7.9 pH)

phenanthrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Cation conc. entered: <0.2 mg/kg, converted to compound conc.:<0.3 mg/kg or <0.00003%) **IGNORED Because: "<LOD"**  
tetrachloroethene (PCE): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
tetrachloromethane (carbon tetrachloride): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
toluene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
trichloroethene (TCE): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
vinyl chloride: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
xylene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
zinc sulphate: (Cation conc. entered: 60 mg/kg, converted to compound conc.:148.158 mg/kg or 0.0148%)

## Notes utilised in assessment

### C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "arsenic trioxide"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "chromium(III) oxide"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "copper (I) oxide"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "nickel dihydroxide"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "zinc sulphate"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "cadmium sulfide"

## Determinand notes

**Note 1** , used on:


determinand: "cadmium sulfide"

determinand: "lead compounds (with the exception of those listed separately in this Annex)"

**Note A** , used on:

determinand: "lead compounds (with the exception of those listed separately in this Annex)"

## Classification of sample: DS115

 **Non Hazardous Waste**  
Classified as **17 05 04**  
in the List of Waste

## Sample details

Sample Name: <b>DS115</b>	LoW Code: Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth: <b>0.05 m</b>	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
Moisture content: <b>3.3%</b> (no correction)	

## Hazard properties

None identified

## Determinands (Moisture content: 3.3%, no correction)

acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
anthracene: (Whole conc. entered as: 0.3 mg/kg or 0.00003%)  
arsenic trioxide: (Cation conc. entered: 9.5 mg/kg, converted to compound conc.:12.543 mg/kg or 0.00125%)  
benzene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
benzo[a]anthracene: (Whole conc. entered as: 0.48 mg/kg or 0.000048%)  
benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: 0.42 mg/kg or 0.000042%)  
benzo[b]fluoranthene: (Whole conc. entered as: 0.47 mg/kg or 0.000047%)  
benzo[ghi]perylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
benzo[k]fluoranthene: (Whole conc. entered as: 0.21 mg/kg or 0.000021%)  
boron tribromide/trichloride/trifluoride (combined): (Cation conc. entered: 0.51 mg/kg, converted to compound conc.:6.849 mg/kg or 0.000685%)  
cadmium sulfide: (Cation conc. entered: <0.1 mg/kg, converted to compound conc.:<0.129 mg/kg or <0.0000129%, Note 1 conc.: <0.00001%) **IGNORED Because: "<LOD"**  
chromium(III) oxide: (Cation conc. entered: 16 mg/kg, converted to compound conc.:23.385 mg/kg or 0.00234%)  
chromium(VI) oxide: (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.962 mg/kg or <0.0000962%) **IGNORED Because: "<LOD"**  
chrysene: (Whole conc. entered as: 0.71 mg/kg or 0.000071%)  
copper (I) oxide: (Cation conc. entered: 17 mg/kg, converted to compound conc.:19.14 mg/kg or 0.00191%)  
cyanides (with the exception of complex cyanides): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.5 mg/kg or <0.00005%) **IGNORED Because: "<LOD"**  
dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
ethylbenzene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
fluoranthene: (Whole conc. entered as: 1.1 mg/kg or 0.00011%)  
fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
lead compounds (with the exception of those listed separately in this Annex): (Cation conc. entered: 12 mg/kg, converted to compound conc.:18.12 mg/kg or 0.00181%, Note 1 conc.: 0.0012%)  
mercury dichloride: (Cation conc. entered: <0.1 mg/kg, converted to compound conc.:<0.135 mg/kg or <0.0000135%) **IGNORED Because: "<LOD"**  
naphthalene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
nickel dihydroxide: (Cation conc. entered: 15 mg/kg, converted to compound conc.:23.692 mg/kg or 0.00237%)  
pH: (Whole conc. entered as: 8.5 pH, converted to conc.:8.5 pH or 8.5 pH)  
phenanthrene: (Whole conc. entered as: 0.88 mg/kg or 0.000088%)  
pyrene: (Whole conc. entered as: 1.4 mg/kg or 0.00014%)

selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Cation conc. entered: <0.2 mg/kg, converted to compound conc.:<0.3 mg/kg or <0.00003%) **IGNORED Because: "<LOD"**  
tetrachloroethene (PCE): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
tetrachloromethane (carbon tetrachloride): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
toluene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
TPH (C6 to C40) petroleum group: (Whole conc. entered as: <10 mg/kg or <0.001%) **IGNORED Because: "<LOD"**  
trichloroethene (TCE): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
vinyl chloride: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
xylene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
zinc sulphate: (Cation conc. entered: 43 mg/kg, converted to compound conc.:106.18 mg/kg or 0.0106%)

## Notes utilised in assessment

### C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "anthracene"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "arsenic trioxide"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "benzo[a]anthracene"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "benzo[a]pyrene; benzo[def]chrysene"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "benzo[b]fluoranthene"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "benzo[k]fluoranthene"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "chromium(III) oxide"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "chrysene"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "copper (I) oxide"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "fluoranthene"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "nickel dihydroxide"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "phenanthrene"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "pyrene"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "zinc sulphate"

## Determinand notes

**Note 1** , used on:


determinand: "lead compounds (with the exception of those listed separately in this Annex)"

**Note A** , used on:

determinand: "lead compounds (with the exception of those listed separately in this Annex)"



Classification of sample: DS115[1]

 **Non Hazardous Waste**  
Classified as **17 05 04**  
in the List of Waste

Sample details

Sample Name: <b>DS115[1]</b>	LoW Code: Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth: <b>1.5 m</b>	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
Moisture content: <b>14%</b> (no correction)	

Hazard properties

None identified

Determinands (Moisture content: 14%, no correction)

phenol: (Whole conc. entered as: <0.5 mg/kg or <0.00005%) **IGNORED Because: "<LOD"**

Notes utilised in assessment

None

Classification of sample: DS119

✔ **Non Hazardous Waste**  
Classified as **17 05 04**  
in the List of Waste

Sample details

<p>Sample Name: <b>DS119</b></p> <p>Sample Depth: <b>1.8 m</b></p> <p>Moisture content: <b>15%</b> (no correction)</p>	<p>LoW Code: Chapter:     <b>17: Construction and Demolition Wastes (including excavated soil from contaminated sites)</b></p> <p>Entry:       <b>17 05 04 (Soil and stones other than those mentioned in 17 05 03)</b></p>
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Hazard properties

None identified

Determinands (Moisture content: 15%, no correction)

acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

arsenic trioxide: (Cation conc. entered: 22 mg/kg, converted to compound conc.:29.047 mg/kg or 0.0029%)

benzene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**

benzo[a]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

benzo[b]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

benzo[ghi]perylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

benzo[k]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

boron tribromide/trichloride/trifluoride (combined): (Cation conc. entered: 0.7 mg/kg, converted to compound conc.:9.401 mg/kg or 0.00094%)

cadmium sulfide: (Cation conc. entered: 0.13 mg/kg, converted to compound conc.:0.167 mg/kg or 0.0000167%, Note 1 conc.: 0.000013%)

chromium(III) oxide: (Cation conc. entered: 32 mg/kg, converted to compound conc.:46.77 mg/kg or 0.00468%)

chromium(VI) oxide: (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.962 mg/kg or <0.0000962%) **IGNORED Because: "<LOD"**

chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

copper (I) oxide: (Cation conc. entered: 21 mg/kg, converted to compound conc.:23.644 mg/kg or 0.00236%)

cyanides (with the exception of complex cyanides): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.5 mg/kg or <0.00005%) **IGNORED Because: "<LOD"**

dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

ethylbenzene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**

fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

lead compounds (with the exception of those listed separately in this Annex): (Cation conc. entered: 15 mg/kg, converted to compound conc.:22.65 mg/kg or 0.00226%, Note 1 conc.: 0.0015%)

mercury dichloride: (Cation conc. entered: <0.1 mg/kg, converted to compound conc.:<0.135 mg/kg or <0.0000135%) **IGNORED Because: "<LOD"**

naphthalene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

nickel dihydroxide: (Cation conc. entered: 32 mg/kg, converted to compound conc.:50.544 mg/kg or 0.00505%)

pH: (Whole conc. entered as: 7.7 pH, converted to conc.:7.7 pH or 7.7 pH)

phenanthrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Cation conc. entered: <0.2 mg/kg, converted to compound conc.:<0.3 mg/kg or <0.00003%) **IGNORED Because: "<LOD"**  
tetrachloroethene (PCE): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
tetrachloromethane (carbon tetrachloride): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
toluene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
TPH (C6 to C40) petroleum group: (Whole conc. entered as: <10 mg/kg or <0.001%) **IGNORED Because: "<LOD"**  
trichloroethene (TCE): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
vinyl chloride: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
xylene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
zinc sulphate: (Cation conc. entered: 49 mg/kg, converted to compound conc.:120.996 mg/kg or 0.0121%)

## Notes utilised in assessment

### C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "arsenic trioxide"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "chromium(III) oxide"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "copper (I) oxide"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "nickel dihydroxide"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "zinc sulphate"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "cadmium sulfide"

## Determinand notes

**Note 1** , used on:

determinand: "cadmium sulfide"  
determinand: "lead compounds (with the exception of those listed separately in this Annex)"

**Note A** , used on:

determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Classification of sample: DS117

 **Non Hazardous Waste**  
Classified as **17 05 04**  
in the List of Waste

Sample details

Sample Name: <b>DS117</b>	LoW Code:
Sample Depth: <b>1.3 m</b>	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Moisture content: <b>11%</b> (no correction)	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands (Moisture content: 11%, no correction)

phenol: (Whole conc. entered as: <0.5 mg/kg or <0.00005%) **IGNORED Because: "<LOD"**

Notes utilised in assessment

None

Classification of sample: DS117[1]

✔ **Non Hazardous Waste**  
Classified as **17 05 04**  
in the List of Waste

Sample details

Sample Name: <b>DS117[1]</b>	LoW Code: Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth: <b>0.1 m</b>	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
Moisture content: <b>7.1%</b> (no correction)	

Hazard properties

None identified

Determinands (Moisture content: 7.1%, no correction)

acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
arsenic trioxide: (Cation conc. entered: 11 mg/kg, converted to compound conc.:14.524 mg/kg or 0.00145%)  
benzene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
benzo[a]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
benzo[b]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
benzo[ghi]perylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
benzo[k]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
boron tribromide/trichloride/trifluoride (combined): (Cation conc. entered: <0.4 mg/kg, converted to compound conc.:<5.372 mg/kg or <0.000537%) **IGNORED Because: "<LOD"**  
cadmium sulfide: (Cation conc. entered: 0.13 mg/kg, converted to compound conc.:0.167 mg/kg or 0.0000167%, Note 1 conc.: 0.000013%)  
chromium(III) oxide: (Cation conc. entered: <5 mg/kg, converted to compound conc.:<7.308 mg/kg or <0.000731%) **IGNORED Because: "<LOD"**  
chromium(VI) oxide: (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.962 mg/kg or <0.0000962%) **IGNORED Because: "<LOD"**  
chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
copper (I) oxide: (Cation conc. entered: 1.3 mg/kg, converted to compound conc.:1.464 mg/kg or 0.000146%)  
cyanides (with the exception of complex cyanides): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.5 mg/kg or <0.00005%) **IGNORED Because: "<LOD"**  
dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
ethylbenzene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
lead compounds (with the exception of those listed separately in this Annex): (Cation conc. entered: 0.78 mg/kg, converted to compound conc.:1.178 mg/kg or 0.000118%, Note 1 conc.: 0.000078%)  
mercury dichloride: (Cation conc. entered: <0.1 mg/kg, converted to compound conc.:<0.135 mg/kg or <0.0000135%) **IGNORED Because: "<LOD"**  
naphthalene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
nickel dihydroxide: (Cation conc. entered: 1.9 mg/kg, converted to compound conc.:3.001 mg/kg or 0.0003%)  
pH: (Whole conc. entered as: 8.1 pH, converted to conc.:8.1 pH or 8.1 pH)  
phenanthrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Cation conc. entered: <0.2 mg/kg, converted to compound conc.:<0.3 mg/kg or <0.00003%) **IGNORED Because: "<LOD"**  
tetrachloroethene (PCE): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
tetrachloromethane (carbon tetrachloride): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
toluene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
TPH (C6 to C40) petroleum group: (Whole conc. entered as: <10 mg/kg or <0.001%) **IGNORED Because: "<LOD"**  
trichloroethene (TCE): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
vinyl chloride: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
xylene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
zinc sulphate: (Cation conc. entered: 5.2 mg/kg, converted to compound conc.:12.84 mg/kg or 0.00128%)

## Notes utilised in assessment

### C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "arsenic trioxide"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "copper (I) oxide"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "nickel dihydroxide"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "zinc sulphate"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "cadmium sulfide"

## Determinand notes

**Note 1** , used on:

determinand: "cadmium sulfide"

determinand: "lead compounds (with the exception of those listed separately in this Annex)"

**Note A** , used on:

determinand: "lead compounds (with the exception of those listed separately in this Annex)"

## Classification of sample: DS118

✔ **Non Hazardous Waste**  
Classified as **17 05 04**  
in the List of Waste

## Sample details

Sample Name: <b>DS118</b>	LoW Code: Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth: <b>0.8 m</b>	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
Moisture content: <b>15%</b> (no correction)	

## Hazard properties

None identified

## Determinands (Moisture content: 15%, no correction)

acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

arsenic trioxide: (Cation conc. entered: 22 mg/kg, converted to compound conc.:29.047 mg/kg or 0.0029%)

benzene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**

benzo[a]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

benzo[b]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

benzo[ghi]perylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

benzo[k]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

boron tribromide/trichloride/trifluoride (combined): (Cation conc. entered: 0.64 mg/kg, converted to compound conc.:8.595 mg/kg or 0.00086%)

cadmium sulfide: (Cation conc. entered: 0.11 mg/kg, converted to compound conc.:0.141 mg/kg or 0.0000141%, Note 1 conc.: 0.000011%)

chromium(III) oxide: (Cation conc. entered: 33 mg/kg, converted to compound conc.:48.231 mg/kg or 0.00482%)

chromium(VI) oxide: (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.962 mg/kg or <0.0000962%) **IGNORED Because: "<LOD"**

chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

copper (I) oxide: (Cation conc. entered: 19 mg/kg, converted to compound conc.:21.392 mg/kg or 0.00214%)

cyanides (with the exception of complex cyanides): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.5 mg/kg or <0.00005%) **IGNORED Because: "<LOD"**

dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

ethylbenzene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**

fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

lead compounds (with the exception of those listed separately in this Annex): (Cation conc. entered: 14 mg/kg, converted to compound conc.:21.14 mg/kg or 0.00211%, Note 1 conc.: 0.0014%)

mercury dichloride: (Cation conc. entered: <0.1 mg/kg, converted to compound conc.:<0.135 mg/kg or <0.0000135%) **IGNORED Because: "<LOD"**

naphthalene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

nickel dihydroxide: (Cation conc. entered: 32 mg/kg, converted to compound conc.:50.544 mg/kg or 0.00505%)

pH: (Whole conc. entered as: 7.8 pH, converted to conc.:7.8 pH or 7.8 pH)

phenanthrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Cation conc. entered: <0.2 mg/kg, converted to compound conc.:<0.3 mg/kg or <0.00003%) **IGNORED Because: "<LOD"**  
tetrachloroethene (PCE): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
tetrachloromethane (carbon tetrachloride): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
toluene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
trichloroethene (TCE): (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
vinyl chloride: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
xylene: (Whole conc. entered as: <0.001 mg/kg or <0.0000001%) **IGNORED Because: "<LOD"**  
zinc sulphate: (Cation conc. entered: 51 mg/kg, converted to compound conc.:125.934 mg/kg or 0.0126%)

## Notes utilised in assessment

### C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "arsenic trioxide"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "chromium(III) oxide"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "copper (I) oxide"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "nickel dihydroxide"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "zinc sulphate"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "cadmium sulfide"

## Determinand notes

**Note 1** , used on:

determinand: "cadmium sulfide"


determinand: "lead compounds (with the exception of those listed separately in this Annex)"

**Note A** , used on:

determinand: "lead compounds (with the exception of those listed separately in this Annex)"



Classification of sample: DS118[1]

 **Non Hazardous Waste**  
Classified as **17 05 04**  
in the List of Waste

Sample details

Sample Name: <b>DS118[1]</b>	LoW Code: Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth: <b>0.2 m</b>	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
Moisture content: <b>7.9%</b> (no correction)	

Hazard properties

None identified

Determinands (Moisture content: 7.9%, no correction)

phenol: (Whole conc. entered as: <0.5 mg/kg or <0.00005%) **IGNORED Because: "<LOD"**

Notes utilised in assessment

None

Classification of sample: BH101

**\* Potentially Hazardous Waste**  
Classified as **17 05 04** or **17 05 03 \***  
in the List of Waste

Sample details

Sample Name: <b>BH101</b>	LoW Code: Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth: <b>11 m</b>	Entry: 17 05 04 or 17 05 03 * (Soil and stones other than those mentioned in 17 05 03 or Soil and stones containing hazardous substances)
Moisture content: <b>0%</b> (no correction)	

Hazard properties (substances considered hazardous until shown otherwise)

**HP 12: Release of an acute toxic gas** "waste which releases acute toxic gases (Acute Tox. 1, 2 or 3) in contact with water or an acid"

Hazard Statements hit:

**EUH032** "Contact with acids liberates very toxic gas"

Because of determinand:

cyanides (with the exception of complex cyanides): (conc.: 0.00006%)

Determinands (Moisture content: 0%, no correction)

acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
arsenic trioxide: (Cation conc. entered: 120 mg/kg, converted to compound conc.:158.439 mg/kg or 0.0158%)  
benzo[a]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
benzo[b]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
benzo[ghi]perylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
benzo[k]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
beryllium oxide: (Cation conc. entered: 2.3 mg/kg, converted to compound conc.:6.383 mg/kg or 0.000638%)  
boron tribromide/trichloride/trifluoride (combined): (Cation conc. entered: 1.5 mg/kg, converted to compound conc.:20.145 mg/kg or 0.00201%)  
cadmium sulfide: (Cation conc. entered: 0.21 mg/kg, converted to compound conc.:0.27 mg/kg or 0.000027%, Note 1 conc.: 0.000021%)  
chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
copper (I) oxide: (Cation conc. entered: 17 mg/kg, converted to compound conc.:19.14 mg/kg or 0.00191%)  
cyanides (with the exception of complex cyanides): (Cation conc. entered: 0.6 mg/kg, converted to compound conc.:0.6 mg/kg or 0.00006%)  
dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
lead compounds (with the exception of those listed separately in this Annex): (Cation conc. entered: 63 mg/kg, converted to compound conc.:95.13 mg/kg or 0.00951%, Note 1 conc.: 0.0063%)  
mercury dichloride: (Cation conc. entered: <0.1 mg/kg, converted to compound conc.:<0.135 mg/kg or <0.0000135%) **IGNORED Because: "<LOD"**  
naphthalene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
nickel dihydroxide: (Cation conc. entered: 47 mg/kg, converted to compound conc.:74.236 mg/kg or 0.00742%)  
pH: (Whole conc. entered as: 8.3 pH, converted to conc.:8.3 pH or 8.3 pH)

phenanthrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Cation conc. entered: 0.23 mg/kg, converted to compound conc.:0.345 mg/kg or 0.0000345%)  
TPH (C6 to C40) petroleum group: (Whole conc. entered as: <10 mg/kg or <0.001%) **IGNORED Because: "<LOD"**  
zinc sulphate: (Cation conc. entered: 220 mg/kg, converted to compound conc.:543.245 mg/kg or 0.0543%)

## Notes utilised in assessment

### C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "arsenic trioxide"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "copper (I) oxide"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "cyanides (with the exception of complex cyanides)"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "nickel dihydroxide"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite)"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "zinc sulphate"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "cadmium sulfide"

### Note 1 , used on:

Test: "HP 5 on STOT SE 1; H370, STOT RE 1; H372" for determinand: "cadmium sulfide"  
Test: "HP 5 on STOT SE 2; H371, STOT RE 2; H373" for determinand: "cadmium sulfide"  
Test: "HP 6 on Acute Tox. 4; H302" for determinand: "cadmium sulfide"  
Test: "HP 6 on Acute Tox. 4; H332" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"  
Test: "HP 7 on Carc. 1A; H350, Carc. 1A; H350i, Carc. 1B; H350, Carc. 1B; H350i" for determinand: "cadmium sulfide"  
Test: "HP 7 on Carc. 2; H351" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"  
Test: "HP 10 on Repr. 1A; H360, Repr. 1A; H360F, Repr. 1A; H360D, Repr. 1A; H360FD, Repr. 1A; H360Fd, Repr. 1A; H360Df, Repr. 1B; H360, Repr. 1B; H360F, Repr. 1B; H360D, Repr. 1B; H360FD, Repr. 1B; H360Fd, Repr. 1B; H360Df" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"  
Test: "HP 10 on Repr. 2; H361, Repr. 2; H361f, Repr. 2; H361d, Repr. 2; H361fd" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"  
Test: "HP 11 on Muta. 2; H341" for determinand: "cadmium sulfide"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"

## Determinand notes


### Note 1 , used on:

determinand: "cadmium sulfide"  
determinand: "lead compounds (with the exception of those listed separately in this Annex)"

### Note A , used on:

determinand: "cyanides (with the exception of complex cyanides)"  
determinand: "lead compounds (with the exception of those listed separately in this Annex)"  
determinand: "selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite)"

Classification of sample: BH102



**Hazardous Waste**  
Classified as **17 05 03 \***  
in the List of Waste

Sample details

<p>Sample Name: <b>BH102</b></p> <p>Sample Depth: <b>11 m</b></p> <p>Moisture content: <b>0%</b> (no correction)</p>	<p>LoW Code: Chapter:       <b>17: Construction and Demolition Wastes (including excavated soil from contaminated sites)</b></p> <p>Entry:         <b>17 05 03 * (Soil and stones containing hazardous substances)</b></p>
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Hazard properties

**HP 14: Ecotoxic** "waste which presents or may present immediate or delayed risks for one or more sectors of the environment"

Risk phrases hit:

**R50/53** "Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment"

Because of determinands:

lead compounds (with the exception of those listed separately in this Annex): (Note 1 conc.: 0.1%)

zinc sulphate: (compound conc.: 1.012%)

Hazard properties (substances considered hazardous until shown otherwise)

**HP 12: Release of an acute toxic gas** "waste which releases acute toxic gases (Acute Tox. 1, 2 or 3) in contact with water or an acid"

Hazard Statements hit:

**EUH032** "Contact with acids liberates very toxic gas"

Because of determinand:

cyanides (with the exception of complex cyanides): (conc.: 0.0016%)

Determinands (Moisture content: 0%, no correction)

- acenaphthene: (Whole conc. entered as: 0.32 mg/kg or 0.000032%)
- acenaphthylene: (Whole conc. entered as: 0.74 mg/kg or 0.000074%)
- anthracene: (Whole conc. entered as: 1.1 mg/kg or 0.00011%)
- arsenic trioxide: (Cation conc. entered: 120 mg/kg, converted to compound conc.:158.439 mg/kg or 0.0158%)
- benzo[a]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- benzo[b]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- benzo[ghi]perylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- benzo[k]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- beryllium oxide: (Cation conc. entered: 3.8 mg/kg, converted to compound conc.:10.546 mg/kg or 0.00105%)
- boron tribromide/trichloride/trifluoride (combined): (Cation conc. entered: 5.5 mg/kg, converted to compound conc.:73.865 mg/kg or 0.00739%)
- cadmium sulfide: (Cation conc. entered: 1.7 mg/kg, converted to compound conc.:2.185 mg/kg or 0.000218%, Note 1 conc.: 0.00017%)
- chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- copper (I) oxide: (Cation conc. entered: 24 mg/kg, converted to compound conc.:27.021 mg/kg or 0.0027%)
- cyanides (with the exception of complex cyanides): (Cation conc. entered: 16 mg/kg, converted to compound conc.:16 mg/kg or 0.0016%)

dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
fluoranthene: (Whole conc. entered as: 1.9 mg/kg or 0.00019%)  
fluorene: (Whole conc. entered as: 2.1 mg/kg or 0.00021%)  
indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
lead compounds (with the exception of those listed separately in this Annex): (Cation conc. entered: 1000 mg/kg, converted to compound conc.:1510 mg/kg or 0.151%, Note 1 conc.: 0.1%)  
mercury dichloride: (Cation conc. entered: <0.1 mg/kg, converted to compound conc.:<0.135 mg/kg or <0.0000135%) **IGNORED Because: "<LOD"**  
naphthalene: (Whole conc. entered as: 1.4 mg/kg or 0.00014%)  
nickel dihydroxide: (Cation conc. entered: 88 mg/kg, converted to compound conc.:138.996 mg/kg or 0.0139%)  
pH: (Whole conc. entered as: 8.4 pH, converted to conc.:8.4 pH or 8.4 pH)  
phenanthrene: (Whole conc. entered as: 5.2 mg/kg or 0.00052%)  
pyrene: (Whole conc. entered as: 2 mg/kg or 0.0002%)  
selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Cation conc. entered: <0.2 mg/kg, converted to compound conc.:<0.3 mg/kg or <0.00003%) **IGNORED Because: "<LOD"**  
TPH (C6 to C40) petroleum group: (Whole conc. entered as: <10 mg/kg or <0.001%) **IGNORED Because: "<LOD"**  
zinc sulphate: (Cation conc. entered: 4100 mg/kg, converted to compound conc.:10124.115 mg/kg or 1.012%)

## Notes utilised in assessment

### C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "acenaphthene"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "anthracene"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "arsenic trioxide"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "copper (I) oxide"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "cyanides (with the exception of complex cyanides)"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "fluoranthene"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "fluorene"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "naphthalene"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "nickel dihydroxide"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "phenanthrene"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "pyrene"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "cadmium sulfide"

### C14: Step 6, Equation 1

"use the equations given in Table C14.3 to decide if the waste is hazardous by HP 14" , used on:

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "zinc sulphate"

## Determinand notes

**Note 1** , used on:

determinand: "cadmium sulfide"  
determinand: "lead compounds (with the exception of those listed separately in this Annex)"

**Note A** , used on:

determinand: "cyanides (with the exception of complex cyanides)"  
determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Classification of sample: BH103

**\* Potentially Hazardous Waste**  
Classified as **17 05 04** or **17 05 03 \***  
in the List of Waste

Sample details

<p>Sample Name: <b>BH103</b></p> <p>Sample Depth: <b>7.5 m</b></p> <p>Moisture content: <b>0%</b> (no correction)</p>	<p>LoW Code: Chapter:        <b>17: Construction and Demolition Wastes (including excavated soil from contaminated sites)</b></p> <p>Entry:         <b>17 05 04 or 17 05 03 * (Soil and stones other than those mentioned in 17 05 03 or Soil and stones containing hazardous substances)</b></p>
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Hazard properties (substances considered hazardous until shown otherwise)

**HP 12: Release of an acute toxic gas** "waste which releases acute toxic gases (Acute Tox. 1, 2 or 3) in contact with water or an acid"

Hazard Statements hit:

**EUH032** "Contact with acids liberates very toxic gas"

Because of determinand:

cyanides (with the exception of complex cyanides): (conc.: 0.00005%)

Determinands (Moisture content: 0%, no correction)

- acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- arsenic trioxide: (Cation conc. entered: 79 mg/kg, converted to compound conc.:104.306 mg/kg or 0.0104%)
- benzo[a]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- benzo[b]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- benzo[ghi]perylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- benzo[k]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- beryllium oxide: (Cation conc. entered: 1.6 mg/kg, converted to compound conc.:4.441 mg/kg or 0.000444%)
- boron tribromide/trichloride/trifluoride (combined): (Cation conc. entered: 1.4 mg/kg, converted to compound conc.:18.802 mg/kg or 0.00188%)
- cadmium sulfide: (Cation conc. entered: 0.11 mg/kg, converted to compound conc.:0.141 mg/kg or 0.000141%, Note 1 conc.: 0.000011%)
- chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- copper (I) oxide: (Cation conc. entered: 20 mg/kg, converted to compound conc.:22.518 mg/kg or 0.00225%)
- cyanides (with the exception of complex cyanides): (Cation conc. entered: 0.5 mg/kg, converted to compound conc.:0.5 mg/kg or 0.00005%)
- dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- lead compounds (with the exception of those listed separately in this Annex): (Cation conc. entered: 70 mg/kg, converted to compound conc.:105.7 mg/kg or 0.0106%, Note 1 conc.: 0.007%)
- mercury dichloride: (Cation conc. entered: <0.1 mg/kg, converted to compound conc.:<0.135 mg/kg or <0.0000135%) **IGNORED Because: "<LOD"**
- naphthalene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**
- nickel dihydroxide: (Cation conc. entered: 37 mg/kg, converted to compound conc.:58.441 mg/kg or 0.00584%)
- pH: (Whole conc. entered as: 7.9 pH, converted to conc.:7.9 pH or 7.9 pH)

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phenanthrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Cation conc. entered: <0.2 mg/kg, converted to compound conc.:<0.3 mg/kg or <0.00003%) **IGNORED Because: "<LOD"**  
TPH (C6 to C40) petroleum group: (Whole conc. entered as: <10 mg/kg or <0.001%) **IGNORED Because: "<LOD"**  
zinc sulphate: (Cation conc. entered: 200 mg/kg, converted to compound conc.:493.859 mg/kg or 0.0494%)

## Notes utilised in assessment

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### C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "arsenic trioxide"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "copper (I) oxide"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "cyanides (with the exception of complex cyanides)"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "nickel dihydroxide"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "zinc sulphate"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "cadmium sulfide"

## Determinand notes

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**Note 1** , used on:

determinand: "cadmium sulfide"

determinand: "lead compounds (with the exception of those listed separately in this Annex)"

**Note A** , used on:

determinand: "cyanides (with the exception of complex cyanides)"

determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Classification of sample: BH103[1]

✔ **Non Hazardous Waste**  
Classified as **17 05 04**  
in the List of Waste

Sample details

<p>Sample Name: <b>BH103[1]</b> Sample Depth: <b>16 m</b> Moisture content: <b>0%</b> (no correction)</p>	<p>LoW Code: Chapter:       17: Construction and Demolition Wastes (including excavated soil from contaminated sites) Entry:         17 05 04 (Soil and stones other than those mentioned in 17 05 03)</p>
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Hazard properties

None identified

Determinands (Moisture content: 0%, no correction)

acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
 acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
 anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
 arsenic trioxide: (Cation conc. entered: 27 mg/kg, converted to compound conc.:35.649 mg/kg or 0.00356%)  
 benzo[a]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
 benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
 benzo[b]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
 benzo[ghi]perylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
 benzo[k]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
 beryllium oxide: (Cation conc. entered: 1.1 mg/kg, converted to compound conc.:3.053 mg/kg or 0.000305%)  
 boron tribromide/trichloride/trifluoride (combined): (Cation conc. entered: 1.1 mg/kg, converted to compound conc.:14.773 mg/kg or 0.00148%)  
 cadmium sulfide: (Cation conc. entered: <0.1 mg/kg, converted to compound conc.:<0.129 mg/kg or <0.0000129%, Note 1 conc.: <0.00001%) **IGNORED Because: "<LOD"**  
 chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
 copper (I) oxide: (Cation conc. entered: 22 mg/kg, converted to compound conc.:24.77 mg/kg or 0.00248%)  
 cyanides (with the exception of complex cyanides): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.5 mg/kg or <0.00005%) **IGNORED Because: "<LOD"**  
 dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
 fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
 fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
 indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
 lead compounds (with the exception of those listed separately in this Annex): (Cation conc. entered: 26 mg/kg, converted to compound conc.:39.26 mg/kg or 0.00393%, Note 1 conc.: 0.0026%)  
 mercury dichloride: (Cation conc. entered: <0.1 mg/kg, converted to compound conc.:<0.135 mg/kg or <0.0000135%) **IGNORED Because: "<LOD"**  
 naphthalene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
 nickel dihydroxide: (Cation conc. entered: 25 mg/kg, converted to compound conc.:39.487 mg/kg or 0.00395%)  
 pH: (Whole conc. entered as: 8 pH, converted to conc.:8 pH or 8 pH)  
 phenanthrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
 pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
 selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Cation conc. entered: <0.2 mg/kg, converted to compound conc.:<0.3 mg/kg or <0.00003%) **IGNORED Because: "<LOD"**  
 zinc sulphate: (Cation conc. entered: 39 mg/kg, converted to compound conc.:96.303 mg/kg or 0.00963%)



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## Notes utilised in assessment

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### **C14: Step 5**

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "arsenic trioxide"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "copper (I) oxide"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "nickel dihydroxide"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "zinc sulphate"

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## Determinand notes

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**Note 1** , used on:

determinand: "lead compounds (with the exception of those listed separately in this Annex)"

**Note A** , used on:

determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Classification of sample: BH105

✔ **Non Hazardous Waste**  
Classified as **17 05 04**  
in the List of Waste

Sample details

Sample Name:	LoW Code:
<b>BH105</b>	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
<b>4 m</b>	
Moisture content: <b>0%</b> (no correction)	

Hazard properties

None identified


Determinands (Moisture content: 0%, no correction)

phenol: (Whole conc. entered as: <0.5 mg/kg or <0.00005%) **IGNORED Because: "<LOD"**

Notes utilised in assessment

None

## Classification of sample: BH105[1]

 **Non Hazardous Waste**  
Classified as **17 05 04**  
in the List of Waste

## Sample details

Sample Name:	LoW Code:
<b>BH105[1]</b>	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
<b>11 m</b>	
Moisture content: <b>0%</b> (no correction)	

## Hazard properties

None identified

## Determinands (Moisture content: 0%, no correction)

acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
arsenic trioxide: (Cation conc. entered: 85 mg/kg, converted to compound conc.:112.228 mg/kg or 0.0112%)  
benzo[a]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
benzo[b]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
benzo[ghi]perylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
benzo[k]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
beryllium oxide: (Cation conc. entered: 1.9 mg/kg, converted to compound conc.:5.273 mg/kg or 0.000527%)  
boron tribromide/trichloride/trifluoride (combined): (Cation conc. entered: 0.9 mg/kg, converted to compound conc.:12.087 mg/kg or 0.00121%)  
cadmium sulfide: (Cation conc. entered: 0.22 mg/kg, converted to compound conc.:0.283 mg/kg or 0.0000283%, Note 1 conc.: 0.000022%)  
chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
copper (I) oxide: (Cation conc. entered: 15 mg/kg, converted to compound conc.:16.888 mg/kg or 0.00169%)  
cyanides (with the exception of complex cyanides): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.5 mg/kg or <0.00005%) **IGNORED Because: "<LOD"**  
dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
lead compounds (with the exception of those listed separately in this Annex): (Cation conc. entered: 36 mg/kg, converted to compound conc.:54.36 mg/kg or 0.00544%, Note 1 conc.: 0.0036%)  
mercury dichloride: (Cation conc. entered: <0.1 mg/kg, converted to compound conc.:<0.135 mg/kg or <0.0000135%)  
**IGNORED Because: "<LOD"**  
naphthalene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
nickel dihydroxide: (Cation conc. entered: 48 mg/kg, converted to compound conc.:75.816 mg/kg or 0.00758%)  
pH: (Whole conc. entered as: 8 pH, converted to conc.:8 pH or 8 pH)  
phenanthrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Cation conc. entered: <0.2 mg/kg, converted to compound conc.:<0.3 mg/kg or <0.00003%) **IGNORED Because: "<LOD"**  
TPH (C6 to C40) petroleum group: (Whole conc. entered as: <10 mg/kg or <0.001%) **IGNORED Because: "<LOD"**  
zinc sulphate: (Cation conc. entered: 140 mg/kg, converted to compound conc.:345.701 mg/kg or 0.0346%)

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## Notes utilised in assessment

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### C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "arsenic trioxide"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "copper (I) oxide"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "nickel dihydroxide"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "zinc sulphate"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "cadmium sulfide"

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## Determinand notes

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**Note 1** , used on:


determinand: "cadmium sulfide"

determinand: "lead compounds (with the exception of those listed separately in this Annex)"

**Note A** , used on:

determinand: "lead compounds (with the exception of those listed separately in this Annex)"

## Classification of sample: BH105[2]

 **Hazardous Waste**  
Classified as **17 05 03 \***  
in the List of Waste

## Sample details

Sample Name: <b>BH105[2]</b>	LoW Code: Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth: <b>19 m</b>	Entry: 17 05 03 * (Soil and stones containing hazardous substances)
Moisture content: <b>0%</b> (no correction)	

## Hazard properties

**HP 14: Ecotoxic** "waste which presents or may present immediate or delayed risks for one or more sectors of the environment"

Risk phrases hit:

**R50/53** "Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment"

Because of determinand:

zinc sulphate: (compound conc.: 0.519%)

## Determinands (Moisture content: 0%, no correction)

acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
arsenic trioxide: (Cation conc. entered: 230 mg/kg, converted to compound conc.:303.675 mg/kg or 0.0304%)  
benzo[a]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
benzo[b]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
benzo[ghi]perylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
benzo[k]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
beryllium oxide: (Cation conc. entered: 2.5 mg/kg, converted to compound conc.:6.938 mg/kg or 0.000694%)  
boron tribromide/trichloride/trifluoride (combined): (Cation conc. entered: 1.8 mg/kg, converted to compound conc.:24.174 mg/kg or 0.00242%)  
cadmium sulfide: (Cation conc. entered: 0.54 mg/kg, converted to compound conc.:0.694 mg/kg or 0.0000694%, Note 1 conc.: 0.000054%)  
chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
copper (I) oxide: (Cation conc. entered: 8.9 mg/kg, converted to compound conc.:10.02 mg/kg or 0.001%)  
cyanides (with the exception of complex cyanides): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.5 mg/kg or <0.00005%) **IGNORED Because: "<LOD"**  
dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
lead compounds (with the exception of those listed separately in this Annex): (Cation conc. entered: 47 mg/kg, converted to compound conc.:70.97 mg/kg or 0.0071%, Note 1 conc.: 0.0047%)  
mercury dichloride: (Cation conc. entered: <0.1 mg/kg, converted to compound conc.:<0.135 mg/kg or <0.0000135%) **IGNORED Because: "<LOD"**  
naphthalene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
nickel dihydroxide: (Cation conc. entered: 150 mg/kg, converted to compound conc.:236.925 mg/kg or 0.0237%)  
pH: (Whole conc. entered as: 8.3 pH, converted to conc.:8.3 pH or 8.3 pH)  
phenanthrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

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pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Cation conc. entered: <0.2 mg/kg, converted to compound conc.:<0.3 mg/kg or <0.00003%) **IGNORED Because: "<LOD"**  
zinc sulphate: (Cation conc. entered: 2100 mg/kg, converted to compound conc.:5185.522 mg/kg or 0.519%)

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### Notes utilised in assessment

#### C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ...", used on:

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "arsenic trioxide"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "copper (I) oxide"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "nickel dihydroxide"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "cadmium sulfide"

#### C14: Step 6, Equation 1

"use the equations given in Table C14.3 to decide if the waste is hazardous by HP 14", used on:

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "zinc sulphate"

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### Determinand notes

**Note 1**, used on:

determinand: "cadmium sulfide"

determinand: "lead compounds (with the exception of those listed separately in this Annex)"

**Note A**, used on:

determinand: "lead compounds (with the exception of those listed separately in this Annex)"

**Classification of sample: BH106**

✔ **Non Hazardous Waste**  
Classified as **17 05 04**  
in the List of Waste

**Sample details**

<p>Sample Name: <b>BH106</b></p> <p>Sample Depth: <b>4.5 m</b></p> <p>Moisture content: <b>0%</b> (no correction)</p>	<p>LoW Code: Chapter:      <b>17: Construction and Demolition Wastes (including excavated soil from contaminated sites)</b></p> <p>Entry:        <b>17 05 04 (Soil and stones other than those mentioned in 17 05 03)</b></p>
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**Hazard properties**

None identified

**Determinands** (Moisture content: 0%, no correction)

acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

arsenic trioxide: (Cation conc. entered: 27 mg/kg, converted to compound conc.:35.649 mg/kg or 0.00356%)

benzo[a]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

benzo[b]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

benzo[ghi]perylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

benzo[k]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

beryllium oxide: (Cation conc. entered: 1.1 mg/kg, converted to compound conc.:3.053 mg/kg or 0.000305%)

boron tribromide/trichloride/trifluoride (combined): (Cation conc. entered: 0.91 mg/kg, converted to compound conc.:12.221 mg/kg or 0.00122%)

cadmium sulfide: (Cation conc. entered: 0.13 mg/kg, converted to compound conc.:0.167 mg/kg or 0.0000167%, Note 1 conc.: 0.000013%)

chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

copper (I) oxide: (Cation conc. entered: 19 mg/kg, converted to compound conc.:21.392 mg/kg or 0.00214%)

cyanides (with the exception of complex cyanides): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.5 mg/kg or <0.00005%) **IGNORED Because: "<LOD"**

dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

lead compounds (with the exception of those listed separately in this Annex): (Cation conc. entered: 16 mg/kg, converted to compound conc.:24.16 mg/kg or 0.00242%, Note 1 conc.: 0.0016%)

mercury dichloride: (Cation conc. entered: 0.14 mg/kg, converted to compound conc.:0.189 mg/kg or 0.0000189%)

naphthalene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

nickel dihydroxide: (Cation conc. entered: 35 mg/kg, converted to compound conc.:55.282 mg/kg or 0.00553%)

pH: (Whole conc. entered as: 8.1 pH, converted to conc.:8.1 pH or 8.1 pH)

phenanthrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Cation conc. entered: <0.2 mg/kg, converted to compound conc.:<0.3 mg/kg or <0.00003%) **IGNORED Because: "<LOD"**

zinc sulphate: (Cation conc. entered: 75 mg/kg, converted to compound conc.:185.197 mg/kg or 0.0185%)

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## Notes utilised in assessment

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### C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "arsenic trioxide"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "copper (I) oxide"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "mercury dichloride"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "nickel dihydroxide"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "zinc sulphate"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "cadmium sulfide"

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## Determinand notes

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**Note 1** , used on:

determinand: "cadmium sulfide"


determinand: "lead compounds (with the exception of those listed separately in this Annex)"

**Note A** , used on:

determinand: "lead compounds (with the exception of those listed separately in this Annex)"



Classification of sample: BH106[1]

 **Hazardous Waste**  
Classified as **17 05 03 \***  
in the List of Waste

Sample details

Sample Name: <b>BH106[1]</b>	LoW Code: Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth: <b>11 m</b>	Entry:	17 05 03 * (Soil and stones containing hazardous substances)
Moisture content: <b>0%</b> (no correction)		

Hazard properties

**HP 14: Ecotoxic** "waste which presents or may present immediate or delayed risks for one or more sectors of the environment"

Risk phrases hit:

**R50/53** "Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment"

Because of determinands:

lead compounds (with the exception of those listed separately in this Annex): (Note 1 conc.: 0.14%)  
zinc sulphate: (compound conc.: 1.21%)

Hazard properties (substances considered hazardous until shown otherwise)

**HP 12: Release of an acute toxic gas** "waste which releases acute toxic gases (Acute Tox. 1, 2 or 3) in contact with water or an acid"

Hazard Statements hit:

**EUH032** "Contact with acids liberates very toxic gas"

Because of determinand:

cyanides (with the exception of complex cyanides): (conc.: 0.00074%)

Determinands (Moisture content: 0%, no correction)

acenaphthene: (Whole conc. entered as: 0.45 mg/kg or 0.000045%)  
acenaphthylene: (Whole conc. entered as: 1.1 mg/kg or 0.00011%)  
anthracene: (Whole conc. entered as: 1.9 mg/kg or 0.00019%)  
arsenic trioxide: (Cation conc. entered: 120 mg/kg, converted to compound conc.:158.439 mg/kg or 0.0158%)  
benzo[a]anthracene: (Whole conc. entered as: 0.38 mg/kg or 0.000038%)  
benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
benzo[b]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
benzo[ghi]perylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
benzo[k]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
beryllium oxide: (Cation conc. entered: 4.3 mg/kg, converted to compound conc.:11.934 mg/kg or 0.00119%)  
boron tribromide/trichloride/trifluoride (combined): (Cation conc. entered: 5.6 mg/kg, converted to compound conc.:75.208 mg/kg or 0.00752%)  
cadmium sulfide: (Cation conc. entered: 2.3 mg/kg, converted to compound conc.:2.956 mg/kg or 0.000296%, Note 1 conc.: 0.00023%)  
chrysene: (Whole conc. entered as: 0.15 mg/kg or 0.000015%)  
copper (I) oxide: (Cation conc. entered: 23 mg/kg, converted to compound conc.:25.895 mg/kg or 0.00259%)  
cyanides (with the exception of complex cyanides): (Cation conc. entered: 7.4 mg/kg, converted to compound conc.:7.4 mg/kg or 0.00074%)

dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
fluoranthene: (Whole conc. entered as: 3.1 mg/kg or 0.00031%)  
fluorene: (Whole conc. entered as: 3 mg/kg or 0.0003%)  
indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
lead compounds (with the exception of those listed separately in this Annex): (Cation conc. entered: 1400 mg/kg, converted to compound conc.:2114 mg/kg or 0.211%, Note 1 conc.: 0.14%)  
mercury dichloride: (Cation conc. entered: <0.1 mg/kg, converted to compound conc.:<0.135 mg/kg or <0.0000135%) **IGNORED Because: "<LOD"**  
naphthalene: (Whole conc. entered as: 1.7 mg/kg or 0.00017%)  
nickel dihydroxide: (Cation conc. entered: 83 mg/kg, converted to compound conc.:131.098 mg/kg or 0.0131%)  
pH: (Whole conc. entered as: 8.3 pH, converted to conc.:8.3 pH or 8.3 pH)  
phenanthrene: (Whole conc. entered as: 9.3 mg/kg or 0.00093%)  
pyrene: (Whole conc. entered as: 3.2 mg/kg or 0.00032%)  
selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Cation conc. entered: <0.2 mg/kg, converted to compound conc.:<0.3 mg/kg or <0.00003%) **IGNORED Because: "<LOD"**  
zinc sulphate: (Cation conc. entered: 4900 mg/kg, converted to compound conc.:12099.552 mg/kg or 1.21%)

## Notes utilised in assessment

### C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "acenaphthene"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "anthracene"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "arsenic trioxide"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "benzo[a]anthracene"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "chrysene"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "copper (I) oxide"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "cyanides (with the exception of complex cyanides)"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "fluoranthene"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "fluorene"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "naphthalene"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "nickel dihydroxide"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "phenanthrene"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "pyrene"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "cadmium sulfide"

### C14: Step 6, Equation 1

"use the equations given in Table C14.3 to decide if the waste is hazardous by HP 14" , used on:

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"  
Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "zinc sulphate"

## Determinand notes


**Note 1** , used on:

determinand: "cadmium sulfide"  
determinand: "lead compounds (with the exception of those listed separately in this Annex)"

**Note A** , used on:

determinand: "cyanides (with the exception of complex cyanides)"  
determinand: "lead compounds (with the exception of those listed separately in this Annex)"

## Classification of sample: BH107

 **Non Hazardous Waste**  
Classified as **17 05 04**  
in the List of Waste

## Sample details

Sample Name:	LoW Code:
<b>BH107</b>	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
<b>4.2 m</b>	
Moisture content: <b>0%</b> (no correction)	

## Hazard properties

None identified

## Determinands (Moisture content: 0%, no correction)

acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
arsenic trioxide: (Cation conc. entered: 26 mg/kg, converted to compound conc.:34.328 mg/kg or 0.00343%)  
benzo[a]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
benzo[b]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
benzo[ghi]perylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
benzo[k]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
beryllium oxide: (Cation conc. entered: 1 mg/kg, converted to compound conc.:2.775 mg/kg or 0.000278%)  
boron tribromide/trichloride/trifluoride (combined): (Cation conc. entered: 1.3 mg/kg, converted to compound conc.:17.459 mg/kg or 0.00175%)  
cadmium sulfide: (Cation conc. entered: 0.16 mg/kg, converted to compound conc.:0.206 mg/kg or 0.0000206%, Note 1 conc.: 0.000016%)  
chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
copper (I) oxide: (Cation conc. entered: 18 mg/kg, converted to compound conc.:20.266 mg/kg or 0.00203%)  
cyanides (with the exception of complex cyanides): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.5 mg/kg or <0.00005%) **IGNORED Because: "<LOD"**  
dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
lead compounds (with the exception of those listed separately in this Annex): (Cation conc. entered: 68 mg/kg, converted to compound conc.:102.68 mg/kg or 0.0103%, Note 1 conc.: 0.0068%)  
mercury dichloride: (Cation conc. entered: <0.1 mg/kg, converted to compound conc.:<0.135 mg/kg or <0.0000135%)  
**IGNORED Because: "<LOD"**  
naphthalene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
nickel dihydroxide: (Cation conc. entered: 32 mg/kg, converted to compound conc.:50.544 mg/kg or 0.00505%)  
pH: (Whole conc. entered as: 8.1 pH, converted to conc.:8.1 pH or 8.1 pH)  
phenanthrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Cation conc. entered: <0.2 mg/kg, converted to compound conc.:<0.3 mg/kg or <0.00003%) **IGNORED Because: "<LOD"**  
zinc sulphate: (Cation conc. entered: 220 mg/kg, converted to compound conc.:543.245 mg/kg or 0.0543%)

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## Notes utilised in assessment

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### C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "arsenic trioxide"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "copper (I) oxide"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "nickel dihydroxide"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "zinc sulphate"

Test: "HP 14 on R50, R52, R50/53, R51/53, R53, R52/53" for determinand: "cadmium sulfide"

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## Determinand notes

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**Note 1** , used on:


determinand: "cadmium sulfide"

determinand: "lead compounds (with the exception of those listed separately in this Annex)"

**Note A** , used on:

determinand: "lead compounds (with the exception of those listed separately in this Annex)"

## Classification of sample: BH107[1]

 **Non Hazardous Waste**  
Classified as **17 05 04**  
in the List of Waste

## Sample details

Sample Name:	LoW Code:
<b>BH107[1]</b>	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
<b>12.5 m</b>	
Moisture content: <b>0%</b> (no correction)	

## Hazard properties

None identified

## Determinands (Moisture content: 0%, no correction)

acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
arsenic trioxide: (Cation conc. entered: 21 mg/kg, converted to compound conc.:27.727 mg/kg or 0.00277%)  
benzo[a]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
benzo[b]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
benzo[ghi]perylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
benzo[k]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
beryllium oxide: (Cation conc. entered: 1.2 mg/kg, converted to compound conc.:3.33 mg/kg or 0.000333%)  
boron tribromide/trichloride/trifluoride (combined): (Cation conc. entered: 1.5 mg/kg, converted to compound conc.:20.145 mg/kg or 0.00201%)  
cadmium sulfide: (Cation conc. entered: <0.1 mg/kg, converted to compound conc.:<0.129 mg/kg or <0.0000129%, Note 1 conc.: <0.00001%) **IGNORED Because: "<LOD"**  
chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
copper (I) oxide: (Cation conc. entered: 18 mg/kg, converted to compound conc.:20.266 mg/kg or 0.00203%)  
cyanides (with the exception of complex cyanides): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.5 mg/kg or <0.00005%) **IGNORED Because: "<LOD"**  
dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
lead compounds (with the exception of those listed separately in this Annex): (Cation conc. entered: 24 mg/kg, converted to compound conc.:36.24 mg/kg or 0.00362%, Note 1 conc.: 0.0024%)  
mercury dichloride: (Cation conc. entered: <0.1 mg/kg, converted to compound conc.:<0.135 mg/kg or <0.0000135%) **IGNORED Because: "<LOD"**  
naphthalene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
nickel dihydroxide: (Cation conc. entered: 26 mg/kg, converted to compound conc.:41.067 mg/kg or 0.00411%)  
pH: (Whole conc. entered as: 8 pH, converted to conc.:8 pH or 8 pH)  
phenanthrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Cation conc. entered: <0.2 mg/kg, converted to compound conc.:<0.3 mg/kg or <0.00003%) **IGNORED Because: "<LOD"**  
zinc sulphate: (Cation conc. entered: 77 mg/kg, converted to compound conc.:190.136 mg/kg or 0.019%)

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**Notes utilised in assessment**

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**C14: Step 5**

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "arsenic trioxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "copper (I) oxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "nickel dihydroxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "zinc sulphate"

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**Determinand notes**

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**Note 1** , used on:

determinand: "lead compounds (with the exception of those listed separately in this Annex)"

**Note A** , used on:

determinand: "lead compounds (with the exception of those listed separately in this Annex)"

## Classification of sample: BH109

 **Non Hazardous Waste**  
Classified as **17 05 04**  
in the List of Waste

## Sample details

Sample Name:	LoW Code:
<b>BH109</b>	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
<b>3.5 m</b>	
Moisture content: <b>0%</b> (no correction)	

## Hazard properties

None identified

## Determinands (Moisture content: 0%, no correction)

acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
arsenic trioxide: (Cation conc. entered: 40 mg/kg, converted to compound conc.:52.813 mg/kg or 0.00528%)  
benzo[a]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
benzo[b]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
benzo[ghi]perylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
benzo[k]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
beryllium oxide: (Cation conc. entered: 1.1 mg/kg, converted to compound conc.:3.053 mg/kg or 0.000305%)  
boron tribromide/trichloride/trifluoride (combined): (Cation conc. entered: 1 mg/kg, converted to compound conc.:13.43 mg/kg or 0.00134%)  
cadmium sulfide: (Cation conc. entered: 0.57 mg/kg, converted to compound conc.:0.733 mg/kg or 0.0000733%, Note 1 conc.: 0.000057%)  
chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
copper (I) oxide: (Cation conc. entered: 21 mg/kg, converted to compound conc.:23.644 mg/kg or 0.00236%)  
cyanides (with the exception of complex cyanides): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.5 mg/kg or <0.00005%) **IGNORED Because: "<LOD"**  
dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
lead compounds (with the exception of those listed separately in this Annex): (Cation conc. entered: 24 mg/kg, converted to compound conc.:36.24 mg/kg or 0.00362%, Note 1 conc.: 0.0024%)  
mercury dichloride: (Cation conc. entered: <0.1 mg/kg, converted to compound conc.:<0.135 mg/kg or <0.0000135%) **IGNORED Because: "<LOD"**  
naphthalene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
nickel dihydroxide: (Cation conc. entered: 36 mg/kg, converted to compound conc.:56.862 mg/kg or 0.00569%)  
pH: (Whole conc. entered as: 8 pH, converted to conc.:8 pH or 8 pH)  
phenanthrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Cation conc. entered: <0.2 mg/kg, converted to compound conc.:<0.3 mg/kg or <0.00003%) **IGNORED Because: "<LOD"**  
TPH (C6 to C40) petroleum group: (Whole conc. entered as: <10 mg/kg or <0.001%) **IGNORED Because: "<LOD"**  
zinc sulphate: (Cation conc. entered: 92 mg/kg, converted to compound conc.:227.175 mg/kg or 0.0227%)

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**Notes utilised in assessment**

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**C14: Step 5**

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "cadmium sulfide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "arsenic trioxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "copper (I) oxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "nickel dihydroxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "zinc sulphate"

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**Determinand notes**

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**Note 1** , used on:

determinand: "cadmium sulfide"

determinand: "lead compounds (with the exception of those listed separately in this Annex)"

**Note A** , used on:


determinand: "lead compounds (with the exception of those listed separately in this Annex)"



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**Classification of sample: BH109[1]**

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 **Non Hazardous Waste**  
Classified as **17 05 04**  
in the List of Waste

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**Sample details**

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Sample Name: <b>BH109[1]</b>	LoW Code: Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth: <b>6.5 m</b>	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
Moisture content: <b>0%</b> (no correction)	

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**Hazard properties**

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None identified

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**Determinands** (Moisture content: 0%, no correction)

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phenol: (Whole conc. entered as: <0.5 mg/kg or <0.00005%) **IGNORED Because: "<LOD"**


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**Notes utilised in assessment**

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None

Classification of sample: BH109[2]

 **Non Hazardous Waste**  
Classified as **17 05 04**  
in the List of Waste

Sample details

Sample Name: <b>BH109[2]</b>	LoW Code: Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth: <b>14 m</b>	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
Moisture content: <b>0%</b> (no correction)		

Hazard properties

None identified

Determinands (Moisture content: 0%, no correction)

acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
arsenic trioxide: (Cation conc. entered: 25 mg/kg, converted to compound conc.:33.008 mg/kg or 0.0033%)  
benzo[a]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
benzo[b]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
benzo[ghi]perylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
benzo[k]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
beryllium oxide: (Cation conc. entered: <1 mg/kg, converted to compound conc.:<2.775 mg/kg or <0.000278%)  
**IGNORED Because: "<LOD"**  
boron tribromide/trichloride/trifluoride (combined): (Cation conc. entered: 1.7 mg/kg, converted to compound conc.:22.831 mg/kg or 0.00228%)  
cadmium sulfide: (Cation conc. entered: 0.1 mg/kg, converted to compound conc.:0.129 mg/kg or 0.0000129%, Note 1 conc.: 0.00001%)  
chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
copper (I) oxide: (Cation conc. entered: 14 mg/kg, converted to compound conc.:15.762 mg/kg or 0.00158%)  
cyanides (with the exception of complex cyanides): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.5 mg/kg or <0.00005%) **IGNORED Because: "<LOD"**  
dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
lead compounds (with the exception of those listed separately in this Annex): (Cation conc. entered: 49 mg/kg, converted to compound conc.:73.99 mg/kg or 0.0074%, Note 1 conc.: 0.0049%)  
mercury dichloride: (Cation conc. entered: <0.1 mg/kg, converted to compound conc.:<0.135 mg/kg or <0.0000135%)  
**IGNORED Because: "<LOD"**  
naphthalene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
nickel dihydroxide: (Cation conc. entered: 20 mg/kg, converted to compound conc.:31.59 mg/kg or 0.00316%)  
pH: (Whole conc. entered as: 8.1 pH, converted to conc.:8.1 pH or 8.1 pH)  
phenanthrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Cation conc. entered: <0.2 mg/kg, converted to compound conc.:<0.3 mg/kg or <0.00003%) **IGNORED Because: "<LOD"**  
zinc sulphate: (Cation conc. entered: 180 mg/kg, converted to compound conc.:444.473 mg/kg or 0.0444%)

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**Notes utilised in assessment**

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**C14: Step 5**

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "cadmium sulfide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "arsenic trioxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "copper (I) oxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "nickel dihydroxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "zinc sulphate"

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**Determinand notes**

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**Note 1** , used on:

determinand: "cadmium sulfide"

determinand: "lead compounds (with the exception of those listed separately in this Annex)"

**Note A** , used on:

determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Classification of sample: BH104

✔ **Non Hazardous Waste**  
Classified as **17 05 04**  
in the List of Waste

Sample details

<p>Sample Name: <b>BH104</b></p> <p>Sample Depth: <b>4.1 m</b></p> <p>Moisture content: <b>0%</b> (no correction)</p>	<p>LoW Code: Chapter:      <b>17: Construction and Demolition Wastes (including excavated soil from contaminated sites)</b></p> <p>Entry:        <b>17 05 04 (Soil and stones other than those mentioned in 17 05 03)</b></p>
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Hazard properties

None identified

Determinands (Moisture content: 0%, no correction)

acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

arsenic trioxide: (Cation conc. entered: 25 mg/kg, converted to compound conc.:33.008 mg/kg or 0.0033%)

benzo[a]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

benzo[b]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

benzo[ghi]perylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

benzo[k]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

beryllium oxide: (Cation conc. entered: 1.1 mg/kg, converted to compound conc.:3.053 mg/kg or 0.000305%)

boron tribromide/trichloride/trifluoride (combined): (Cation conc. entered: 0.98 mg/kg, converted to compound conc.:13.161 mg/kg or 0.00132%)

cadmium sulfide: (Cation conc. entered: 0.11 mg/kg, converted to compound conc.:0.141 mg/kg or 0.0000141%, Note 1 conc.: 0.000011%)

chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

copper (I) oxide: (Cation conc. entered: 20 mg/kg, converted to compound conc.:22.518 mg/kg or 0.00225%)

cyanides (with the exception of complex cyanides): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.5 mg/kg or <0.00005%) **IGNORED Because: "<LOD"**

dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

fluoranthene: (Whole conc. entered as: 0.41 mg/kg or 0.000041%)

fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

lead compounds (with the exception of those listed separately in this Annex): (Cation conc. entered: 27 mg/kg, converted to compound conc.:40.77 mg/kg or 0.00408%, Note 1 conc.: 0.0027%)

mercury dichloride: (Cation conc. entered: <0.1 mg/kg, converted to compound conc.:<0.135 mg/kg or <0.0000135%) **IGNORED Because: "<LOD"**

naphthalene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

nickel dihydroxide: (Cation conc. entered: 35 mg/kg, converted to compound conc.:55.282 mg/kg or 0.00553%)

pH: (Whole conc. entered as: 8 pH, converted to conc.:8 pH or 8 pH)

phenanthrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**

pyrene: (Whole conc. entered as: 0.31 mg/kg or 0.000031%)

selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Cation conc. entered: <0.2 mg/kg, converted to compound conc.:<0.3 mg/kg or <0.00003%) **IGNORED Because: "<LOD"**

zinc sulphate: (Cation conc. entered: 92 mg/kg, converted to compound conc.:227.175 mg/kg or 0.0227%)

## Notes utilised in assessment

### C14: Step 5

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "cadmium sulfide"  
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "arsenic trioxide"  
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "copper (I) oxide"  
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "fluoranthene"  
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"  
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "nickel dihydroxide"  
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "pyrene"  
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "zinc sulphate"

### Note 1 , used on:

Test: "HP 5 on STOT SE 1; H370, STOT RE 1; H372" for determinand: "cadmium sulfide"  
Test: "HP 5 on STOT SE 2; H371, STOT RE 2; H373" for determinand: "cadmium sulfide"  
Test: "HP 6 on Acute Tox. 4; H302" for determinand: "cadmium sulfide"  
Test: "HP 6 on Acute Tox. 4; H332" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"  
Test: "HP 7 on Carc. 1B; H350, Carc. 1A; H350, Carc. 1B; H350i, Carc. 1A; H350i" for determinand: "cadmium sulfide"  
Test: "HP 7 on Carc. 2; H351" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"  
Test: "HP 10 on Repr. 1A; H360, Repr. 1B; H360, Repr. 1B; H360F, Repr. 1A; H360F, Repr. 1A; H360D, Repr. 1B; H360D, Repr. 1B; H360FD, Repr. 1A; H360FD, Repr. 1A; H360Fd, Repr. 1B; H360Fd, Repr. 1B; H360Df, Repr. 1A; H360Df" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"  
Test: "HP 10 on Repr. 2; H361, Repr. 2; H361f, Repr. 2; H361d, Repr. 2; H361fd" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"  
Test: "HP 11 on Muta. 2; H341" for determinand: "cadmium sulfide"  
Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "cadmium sulfide"

## Determinand notes

### Note 1 , used on:

determinand: "cadmium sulfide"  
determinand: "lead compounds (with the exception of those listed separately in this Annex)"

### Note A , used on:

determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Classification of sample: BH104[1]

✔ **Non Hazardous Waste**  
Classified as **17 05 04**  
in the List of Waste

Sample details

Sample Name: <b>BH104[1]</b>	LoW Code: Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth: <b>10.5 m</b>	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
Moisture content: <b>0%</b> (no correction)		

Hazard properties

None identified

Determinands (Moisture content: 0%, no correction)

acenaphthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
 acenaphthylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
 anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
 arsenic trioxide: (Cation conc. entered: 50 mg/kg, converted to compound conc.:66.016 mg/kg or 0.0066%)  
 benzo[a]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
 benzo[a]pyrene; benzo[def]chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
 benzo[b]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
 benzo[ghi]perylene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
 benzo[k]fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
 beryllium oxide: (Cation conc. entered: 1.4 mg/kg, converted to compound conc.:3.885 mg/kg or 0.000389%)  
 boron tribromide/trichloride/trifluoride (combined): (Cation conc. entered: 1.3 mg/kg, converted to compound conc.:17.459 mg/kg or 0.00175%)  
 cadmium sulfide: (Cation conc. entered: <0.1 mg/kg, converted to compound conc.:<0.129 mg/kg or <0.0000129%, Note 1 conc.: <0.00001%) **IGNORED Because: "<LOD"**  
 chrysene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
 copper (I) oxide: (Cation conc. entered: 19 mg/kg, converted to compound conc.:21.392 mg/kg or 0.00214%)  
 cyanides (with the exception of complex cyanides): (Cation conc. entered: <0.5 mg/kg, converted to compound conc.:<0.5 mg/kg or <0.00005%) **IGNORED Because: "<LOD"**  
 dibenz[a,h]anthracene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
 fluoranthene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
 fluorene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
 indeno[123-cd]pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
 lead compounds (with the exception of those listed separately in this Annex): (Cation conc. entered: 36 mg/kg, converted to compound conc.:54.36 mg/kg or 0.00544%, Note 1 conc.: 0.0036%)  
 mercury dichloride: (Cation conc. entered: <0.1 mg/kg, converted to compound conc.:<0.135 mg/kg or <0.0000135%) **IGNORED Because: "<LOD"**  
 naphthalene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
 nickel dihydroxide: (Cation conc. entered: 28 mg/kg, converted to compound conc.:44.226 mg/kg or 0.00442%)  
 pH: (Whole conc. entered as: 7.8 pH, converted to conc.:7.8 pH or 7.8 pH)  
 phenanthrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
 pyrene: (Whole conc. entered as: <0.1 mg/kg or <0.00001%) **IGNORED Because: "<LOD"**  
 selenium compounds (with the exception of cadmium sulfoselenide and sodium selenite): (Cation conc. entered: <0.2 mg/kg, converted to compound conc.:<0.3 mg/kg or <0.00003%) **IGNORED Because: "<LOD"**  
 TPH (C6 to C40) petroleum group: (Whole conc. entered as: <10 mg/kg or <0.001%) **IGNORED Because: "<LOD"**  
 zinc sulphate: (Cation conc. entered: 73 mg/kg, converted to compound conc.:180.259 mg/kg or 0.018%)

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**Notes utilised in assessment**

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**C14: Step 5**

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..." , used on:

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "arsenic trioxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "copper (I) oxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "lead compounds (with the exception of those listed separately in this Annex)"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "nickel dihydroxide"

Test: "HP 14 on R50, R52, R53, R50/53, R51/53, R52/53" for determinand: "zinc sulphate"

---

**Determinand notes**

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**Note 1** , used on:

determinand: "lead compounds (with the exception of those listed separately in this Annex)"

**Note A** , used on:

determinand: "lead compounds (with the exception of those listed separately in this Annex)"

---

## Appendix A: Classifier defined and non CLP determinands

---

### **acenaphthene** (CAS Number: 83-32-9)

Comments: Risk phrase data taken from European Chemicals Agency's Classification & Labelling Inventory

Data source:

<http://clp-inventory.echa.europa.eu/SummaryOfClassAndLabelling.aspx?SubstanceID=133563&HarmOnly=no>

Data source date: 16/07/2012

Risk Phrases: R36, R37, R38, N; R50/53, N; R51/53

Hazard Statements: Eye Irrit. 2; H319, STOT SE 3; H335, Skin Irrit. 2; H315, Aquatic Acute 1; H400, Aquatic Chronic 1; H410, Aquatic Chronic 2; H411

### **acenaphthylene** (CAS Number: 208-96-8)

Comments: Risk phrase data taken from European Chemicals Agency's Classification & Labelling Inventory

Data source:

<http://clp-inventory.echa.europa.eu/SummaryOfClassAndLabelling.aspx?SubstanceID=59285&HarmOnly=no>

Data source date: 16/07/2012

Risk Phrases: R22, R26, R27, R36, R37, R38

Hazard Statements: Acute Tox. 4; H302, Acute Tox. 1; H330, Acute Tox. 1; H310, Eye Irrit. 2; H319, STOT SE 3; H335, Skin Irrit. 2; H315

### **anthracene** (CAS Number: 120-12-7)

Comments: Risk phrase data taken from European Chemicals Agency's Classification & Labelling Inventory

Data source:

<http://clp-inventory.echa.europa.eu/SummaryOfClassAndLabelling.aspx?SubstanceID=101102&HarmOnly=no>

Data source date: 08/03/2013

Risk Phrases: R36, R37, R38, R43, N; R50/53

Hazard Statements: Eye Irrit. 2; H319, STOT SE 3; H335, Skin Irrit. 2; H315, Skin Sens. 1; H317, Aquatic Acute 1; H400, Aquatic Chronic 1; H410

### **benzo[ghi]perylene** (CAS Number: 191-24-2)

Comments: Risk phrase data taken from European Chemicals Agency's Classification & Labelling Inventory

Data source:

<http://clp-inventory.echa.europa.eu/SummaryOfClassAndLabelling.aspx?SubstanceID=15793&HarmOnly=no>

Data source date: 16/07/2012

Risk Phrases: N; R50/53

Hazard Statements: Aquatic Acute 1; H400, Aquatic Chronic 1; H410

### **boron tribromide/trichloride/trifluoride (combined)**

Conversion factor: 13.43

Comments: Combines the risk phrases and the average of the conversion factors for Boron tribromide, Boron trichloride and Boron trifluoride

Data source: N/A

Data source date: 10/01/2011

Risk Phrases: R14, T+; R26/28, C; R34, C; R35

Hazard Statements: EUH014, Acute Tox. 2; H330, Acute Tox. 2; H300, Skin Corr. 1A; H314, Skin Corr. 1B; H314

### **fluoranthene** (CAS Number: 206-44-0)

Comments: Risk phrase data taken from European Chemicals Agency's Classification & Labelling Inventory

Data source:

<http://clp-inventory.echa.europa.eu/SummaryOfClassAndLabelling.aspx?SubstanceID=56375&HarmOnly=no>

Data source date: 16/07/2012

Risk Phrases: R20, R22, R36, N; R50/53

Hazard Statements: Acute Tox. 4; H302, Acute Tox. 4; H332, Eye Irrit. 2; H319, Aquatic Acute 1; H400, Aquatic Chronic 1; H410

### **fluorene** (CAS Number: 86-73-7)

Comments: Risk phrase data taken from European Chemicals Agency's Classification & Labelling Inventory

Data source:

<http://clp-inventory.echa.europa.eu/SummaryOfClassAndLabelling.aspx?SubstanceID=81845&HarmOnly=no>

Data source date: 16/07/2012

Risk Phrases: N; R50/53, R53

Hazard Statements: Aquatic Acute 1; H400, Aquatic Chronic 1; H410, Aquatic Chronic 4; H413



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**indeno[123-cd]pyrene** (CAS Number: 193-39-5)

Comments: Risk phrase data taken from European Chemicals Agency's Classification & Labelling Inventory  
Data source:  
<http://clp-inventory.echa.europa.eu/SummaryOfClassAndLabelling.aspx?SubstanceID=128806&HarmOnly=no>  
Data source date: 08/03/2013  
Risk Phrases: R40  
Hazard Statements: Carc. 2; H351

---

**lead compounds (with the exception of those listed separately in this Annex)**

CLP index number: 082-001-00-6  
Data source: Regulation 1272/2008/EC - Classification, labelling and packaging of substances and mixtures. (CLP)  
Additional Risk Phrases: None.  
Additional Hazard Statements: Carc. 2; H351  
Reason:  
03/06/2015 - Carc. 2; H351 hazard statement sourced from: Larsen et al., 2014; Survey of lead and lead compounds, Environmental Project No. 1539, The Danish Environmental Protection Agency

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**pH**

Comments: Appendix C, C4.5  
Data source: WM2 - Interpretation of the definition and classification of hazardous waste (Second Edition, version2.2), Environment Agency  
Data source date: 30/05/2008  
Risk Phrases: None.  
Hazard Statements: None.

---

**phenanthrene** (CAS Number: 85-01-8)

Comments: Risk phrase data taken from European Chemicals Agency's Classification & Labelling Inventory  
Data source:  
<http://clp-inventory.echa.europa.eu/SummaryOfClassAndLabelling.aspx?SubstanceID=109754&HarmOnly=no>  
Data source date: 16/07/2012  
Risk Phrases: R22, R36, R37, R38, R40, R43, N; R50/53  
Hazard Statements: Acute Tox. 4; H302, Eye Irrit. 2; H319, STOT SE 3; H335, Carc. 2; H351, Skin Sens. 1; H317, Aquatic Acute 1; H400, Aquatic Chronic 1; H410, Skin Irrit. 2; H315

---

**pyrene** (CAS Number: 129-00-0)

Comments: Risk phrase data taken from European Chemicals Agency's Classification & Labelling Inventory  
Data source:  
<http://clp-inventory.echa.europa.eu/SummaryOfClassAndLabelling.aspx?SubstanceID=87484&HarmOnly=no>  
Data source date: 16/07/2012  
Risk Phrases: R23, N; R50/53  
Hazard Statements: Acute Tox. 3; H331, Aquatic Acute 1; H400, Aquatic Chronic 1; H410

---

**TPH (C6 to C40) petroleum group**

Comments: Risk phrase data given on page A41  
Data source: WM2 3rd edition, 2013  
Data source date: 01/08/2013  
Risk Phrases: R10, R45, R46, R51/53, R63, R65  
Hazard Statements: Flam. Liq. 3; H226, Asp. Tox. 1; H304, STOT RE 2; H373, Muta. 1B; H340, Carc. 1B; H350, Repr. 2; H361d, Aquatic Chronic 2; H411

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**chromium(III) oxide** (CAS Number: 1308-38-9)

Conversion factor: 1.462  
Comments: Risk phrase data taken from European Chemicals Agency's Classification & Labelling Inventory  
Data source:  
<http://clp-inventory.echa.europa.eu/SummaryOfClassAndLabelling.aspx?SubstanceID=33806&HarmOnly=no?fc=true&lang=en>  
Data source date: 26/11/2012  
Risk Phrases: R20, R22, R36, R37, R38, R42, R43, R50/53, R60, R61  
Hazard Statements: Acute Tox. 4; H332, Acute Tox. 4; H302, Eye Irrit. 2; H319, STOT SE 3; H335, Skin Irrit. 2; H315, Resp. Sens. 1; H334, Skin Sens. 1; H317, Repr. 1B; H360FD, Aquatic Acute 1; H400, Aquatic Chronic 1; H410

---

**ethylbenzene** (CAS Number: 100-41-4)

CLP index number: 601-023-00-4

Data source: Commission Regulation (EU) No 605/2014 – 6th Adaptation to Technical Progress for Regulation (EC) No 1272/2008. (ATP6)

Additional Risk Phrases: None.

Additional Hazard Statements: Carc. 2; H351

Reason:

03/06/2015 - Carc. 2; H351 hazard statement sourced from: IARC Group 2B (77) 2000

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## Appendix B: Notes

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### C14: Step 5

from section: WM3: C14 in the document: "[WM3 - Waste Classification](#)"

"identify whether any individual ecotoxic substance is present at or above a cut-off value ..."

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### C14: Step 6, Equation 1

from section: WM3: C14 in the document: "[WM3 - Waste Classification](#)"

"use the equations given in Table C14.3 to decide if the waste is hazardous by HP 14"

---

### Note 1

from section: 1.1.3.2, Annex VI in the document: "[CLP Regulations](#)"

"The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated with reference to the total weight of the mixture."

---

### Note A

from section: 1.1.3.1, Annex VI in the document: "[CLP Regulations](#)"

"Without prejudice to Article 17(2), the name of the substance must appear on the label in the form of one of the designations given in Part 3. In Part 3, use is sometimes made of a general description such as '... compounds' or '... salts'. In this case, the supplier is required to state on the label the correct name, due account being taken of section 1.1.1.4."

---

### WM3: Unknown oil

from section: Chapter 3: 4. Waste oils and other wastes containing or contaminated with oil in the document: "[WM3 - Waste Classification](#)"

"If the identity of the oil is unknown, and the petroleum group cannot be established, then the oil contaminating the waste can be classified as non-carcinogenic due to the presence of oil if all three of the following criteria are met:

- the waste contains **benzo[a]pyrene (BaP)** at a concentration of less than 0.01% (1/10,000th) of the TPH concentration (This is the carcinogenic limit specified in table 3.2 of the CLP for BaP)
- this has been determined by an appropriate and representative sampling approach in accordance with the principles set out in Appendix D, and
- the analysis clearly demonstrates, for example by carbon bands or chromatograph, and the laboratory has reasonably concluded that the hydrocarbons present have not arisen from petrol or diesel

"

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## Appendix C: Version

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Classification utilises the following:

- CLP Regulations - Regulation 1272/2008/EC of 16 December 2008
- 1st ATP - Regulation 790/2009/EC of 10 August 2009
- 2nd ATP - Regulation 286/2011/EC of 10 March 2011
- 3rd ATP - Regulation 618/2012/EU of 10 July 2012
- 4th ATP - Regulation 487/2013/EU of 8 May 2013
- Correction to 1st ATP - Regulation 758/2013/EU of 7 August 2013
- 5th ATP - Regulation 944/2013/EU of 2 October 2013
- 6th ATP - Regulation 605/2014/EU of 5 June 2014
- WFD Annex III replacement - Regulation 1357/2014/EU of 18 December 2014
- Revised List of Wastes 2014 - Decision 2014/955/EU of 18 December 2014
- WM3 - Waste Classification - May 2015
- 7th ATP - Regulation 2015/1221/EU of 24 July 2015
- POPs Regulation 2004 - Regulation 850/2004/EC of 29 April 2004
- 1st ATP to POPs Regulation - Regulation 756/2010/EU of 24 August 2010
- 2nd ATP to POPs Regulation - Regulation 757/2010/EU of 24 August 2010

HazWasteOnline Engine: WM3 1st Edition, May 2015

HazWasteOnline Engine Version: 2015.265.2962.5957 (22 Sep 2015)

HazWasteOnline Database: 2015.265.2962.5957 (22 Sep 2015)

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## APPENDIX 13.2 HISTORICAL MAPS

# Historical Mapping Legends

## Ordnance Survey County Series 1:10,560


## Ordnance Survey Plan 1:10,000


## 1:10,000 Raster Mapping


## Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Northamptonshire	1:10,560	1885	2
Northamptonshire	1:10,560	1901	3
Northamptonshire	1:10,560	1901	4
Northamptonshire	1:10,560	1938 - 1950	5
Northamptonshire	1:10,560	1952	6
Ordnance Survey Plan	1:10,000	1958	7
Ordnance Survey Plan	1:10,000	1967 - 1968	8
Ordnance Survey Plan	1:10,000	1974 - 1975	9
Ordnance Survey Plan	1:10,000	1982 - 1987	10
Ordnance Survey Plan	1:10,000	1988	11
Ordnance Survey Plan	1:10,000	1992	12
10K Raster Mapping	1:10,000	2006	13
10K Raster Mapping	1:10,000	2012	14



## Historical Map - Slice A



## Order Details

41611989\_1\_1  
 Order Number: 012-1178  
 Customer Ref: National Grid Reference: 490910, 290830  
 Slice: A  
 Site Area (Ha): 8.06  
 Search Buffer (m): 1000

## Site Details

Willowbrook Industrial Estate, Corby, Northamptonshire



Tel: 0844 844 9852  
 Fax: 0844 844 9851  
 Web: www.emvcheck.co.uk

**Northamptonshire  
Published 1885**

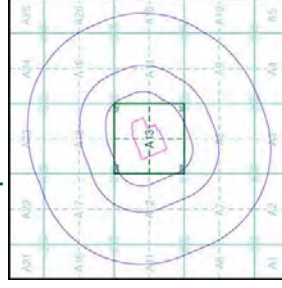
**Source map scale - 1:10,560**

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overlaid with the National Grid. In 1970, the first edition of the maps was reissued in the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

**Map Name(s) and Date(s)**

011SE	1885
1:10,560	
017NE	1885
1:10,560	

**Historical Map - Slice A**

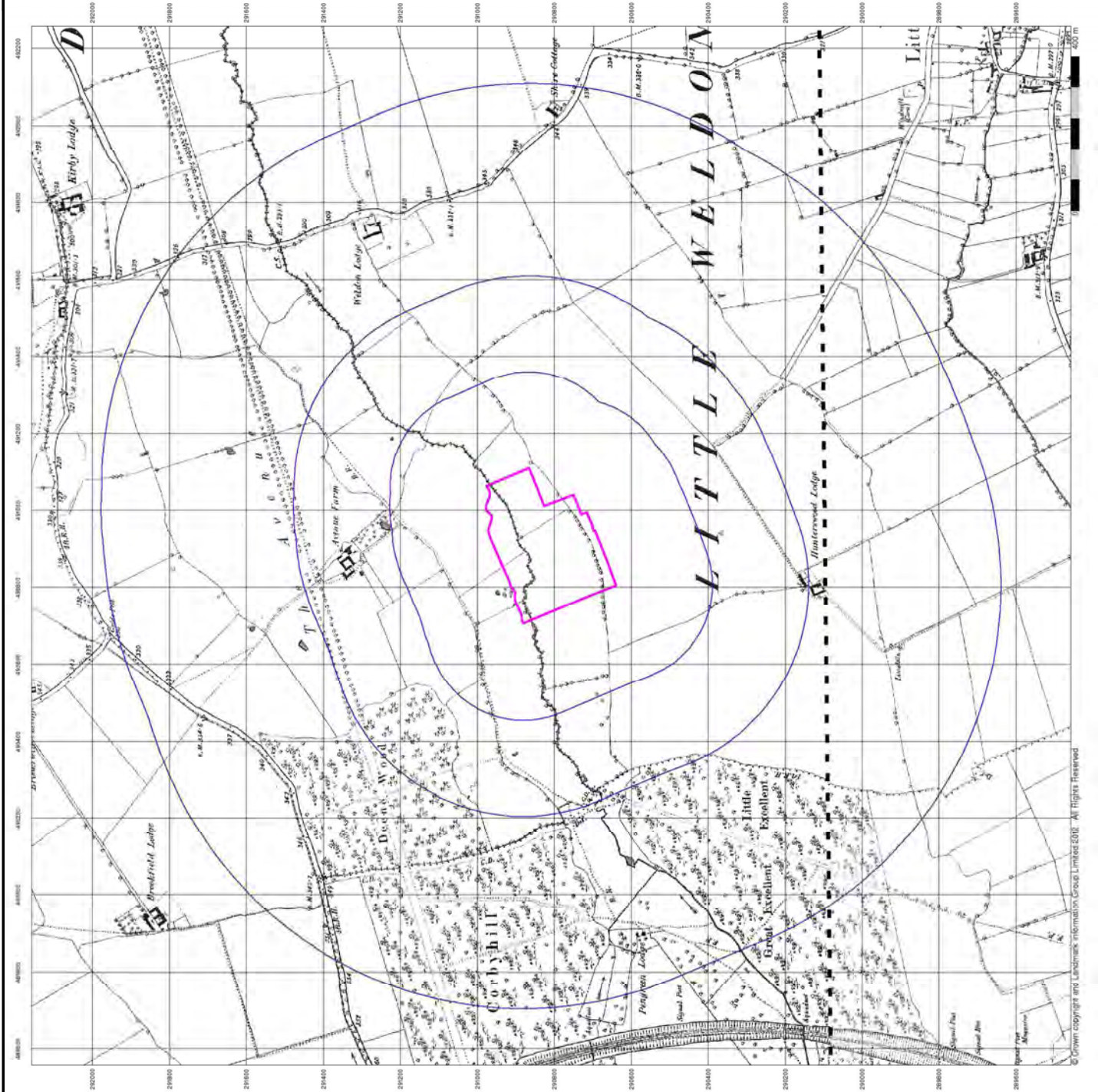


**Order Details**

Order Number: 41611989\_1\_1  
 Customer Ref: 012-1178  
 National Grid Reference: 490910, 290830  
 Slice: A  
 Site Area (Ha): 8.06  
 Search Buffer (m): 1000

**Site Details**

Willowbrook Industrial Estate, Corby, Northamptonshire





**Northamptonshire  
Published 1901**

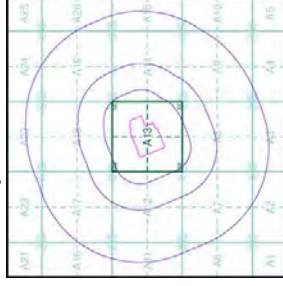
**Source map scale - 1:10,560**

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overlaid with the National Grid. In 1970, the first revision process was initiated, giving rise to the Provisional Edition. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

**Map Name(s) and Date(s)**

011SE	1901
1:10,560	
017NE	1901
1:10,560	

**Historical Map - Slice A**



**Order Details**

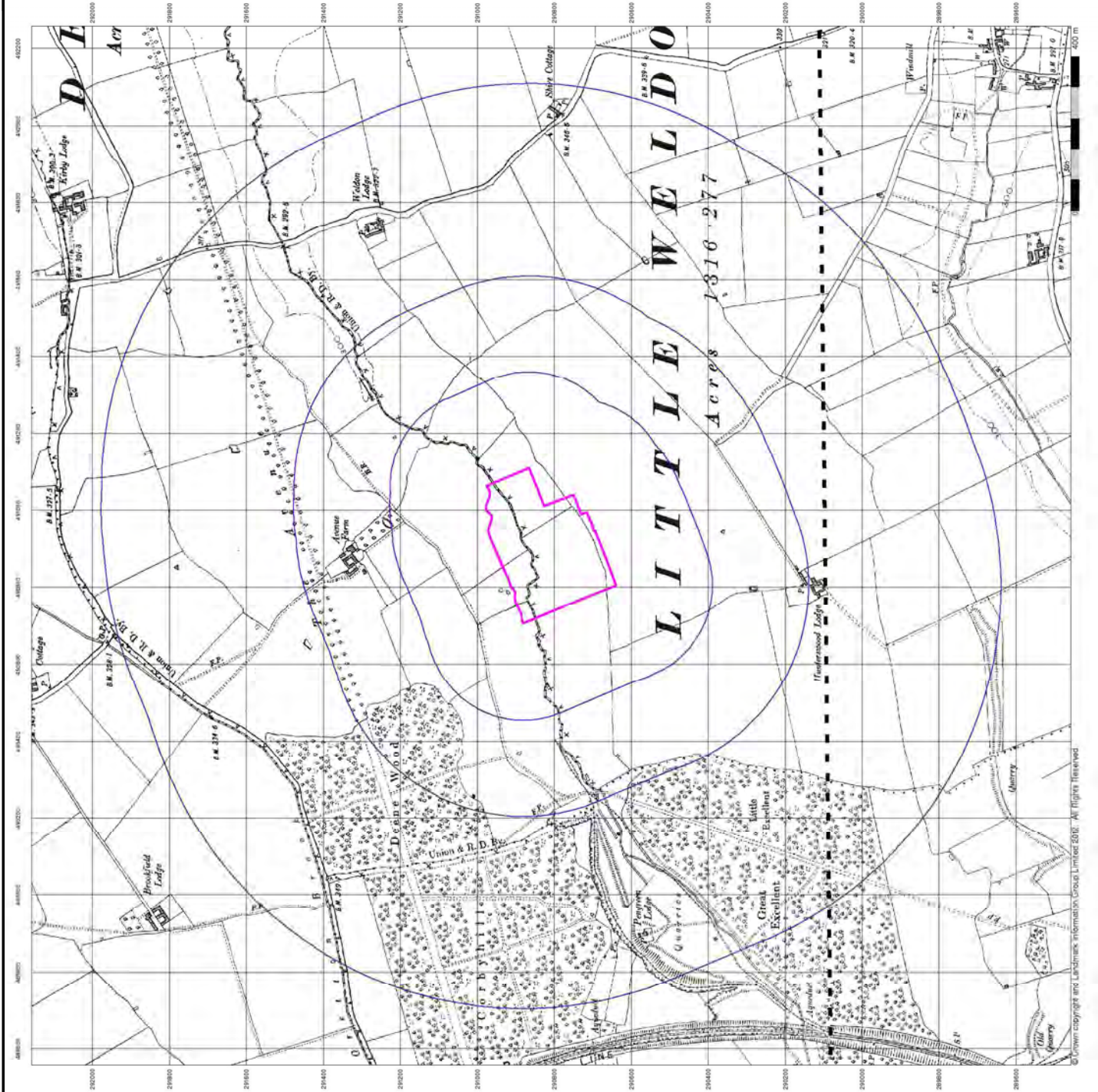
Order Number: 41611989.1\_1  
 Customer Ref: 012-1178  
 National Grid Reference: 490910, 290830  
 Slice: A  
 Site Area (Ha): 8.06  
 Search Buffer (m): 1000

**Site Details**

Willowbrook Industrial Estate, Corby, Northamptonshire



Tel: 0844 844 9852  
 Fax: 0844 844 9851  
 Web: www.envirocheck.co.uk







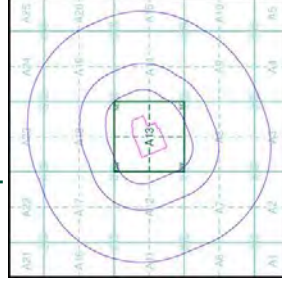
**Northamptonshire  
Published 1938 - 1950  
Source map scale - 1:10,560**

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overlaid with the National Grid, in 1970; the first revision process, including the maps as a single projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

**Map Name(s) and Date(s)**

011SE	1950
1:10,560	
017NE	1938
1:10,560	

**Historical Map - Slice A**

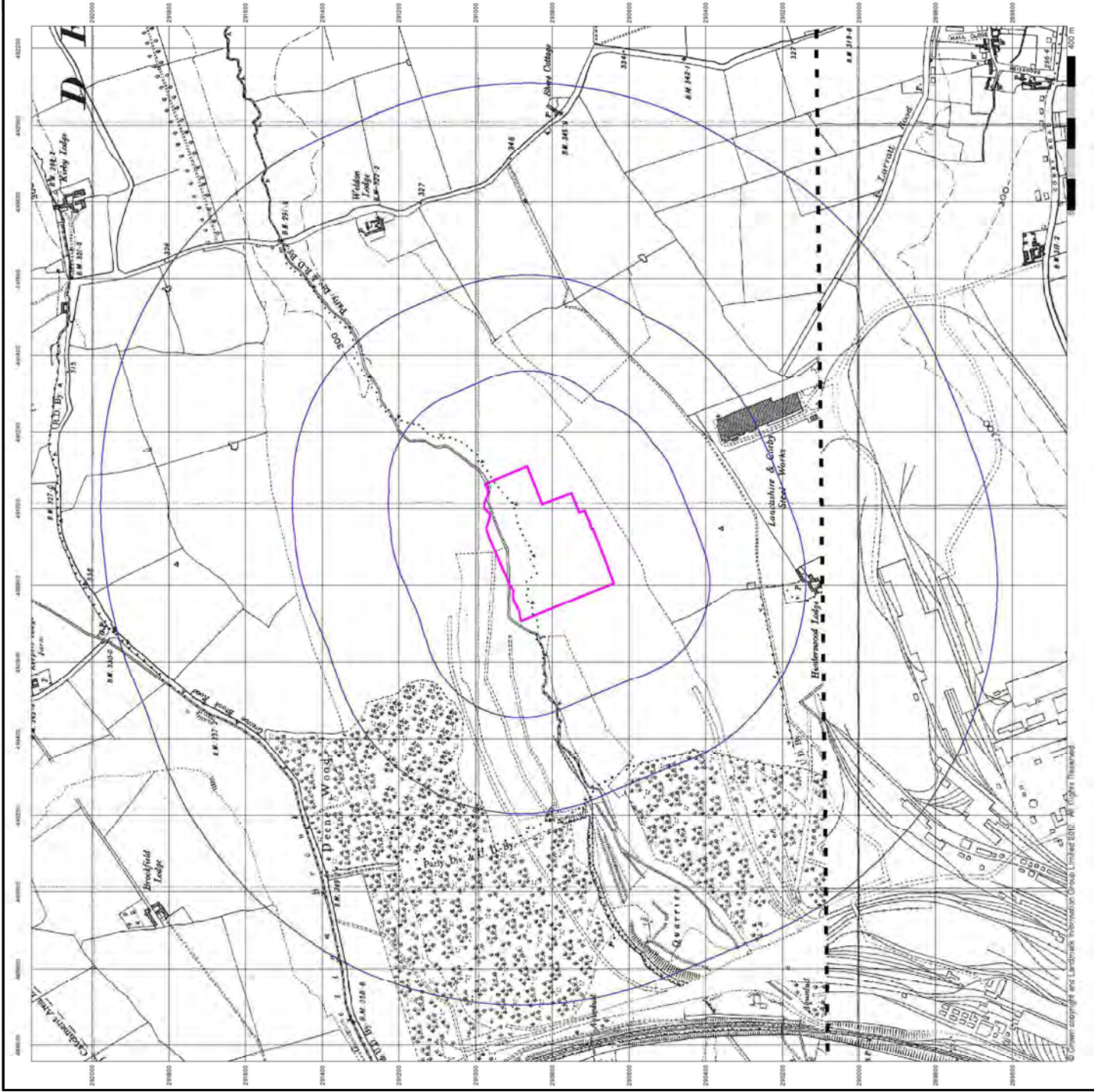


**Order Details**

Order Number: 41611989\_1\_1  
Customer Ref: 012-1178  
National Grid Reference: 490910, 290830  
Slice: A  
Site Area (Ha): 8.06  
Search Buffer (m): 1000

**Site Details**

Willowbrook Industrial Estate, Corby, Northamptonshire



**Northamptonshire  
Published 1952**

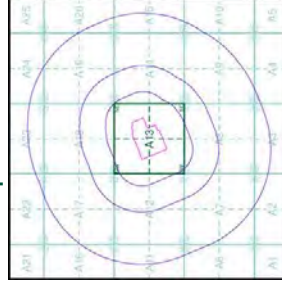
**Source map scale - 1:10,560**

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overlaid with the National Grid. In 1970, the first revision process was initiated, giving rise to the maps in the current edition. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

**Map Name(s) and Date(s)**

011SE	1952
1:10,560	
017NE	1952
1:10,560	

**Historical Map - Slice A**

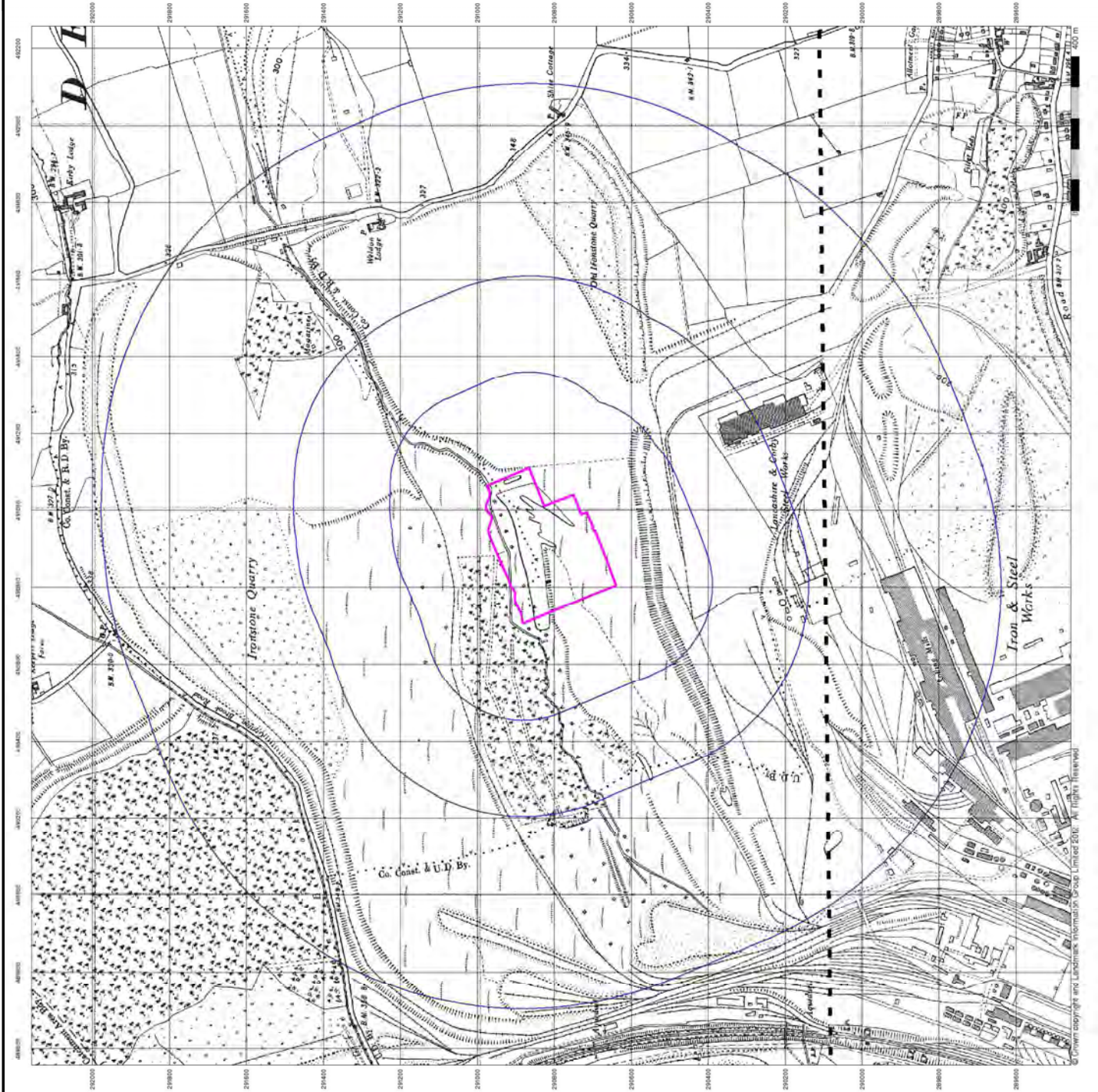


**Order Details**

Order Number: 41611989\_1\_1  
 Customer Ref: 012-1178  
 National Grid Reference: 490910, 290830  
 Slice: A  
 Site Area (Ha): 8.06  
 Search Buffer (m): 1000

**Site Details**

Willowbrook Industrial Estate, Corby, Northamptonshire



## Ordnance Survey Plan Published 1958

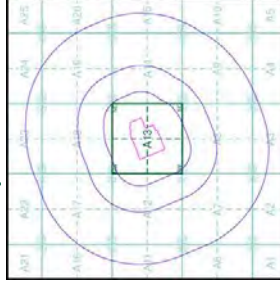
### Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overlaid with the National Grid in 1970; the first revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

### Map Name(s) and Date(s)

SPBSE	SPBSEW	SPBSEW
1958	1958	1958
1:10,560	1:10,560	1:10,560
SPBSE	SPBSEW	SPBSEW
1958	1958	1958
1:10,560	1:10,560	1:10,560

### Historical Map - Slice A

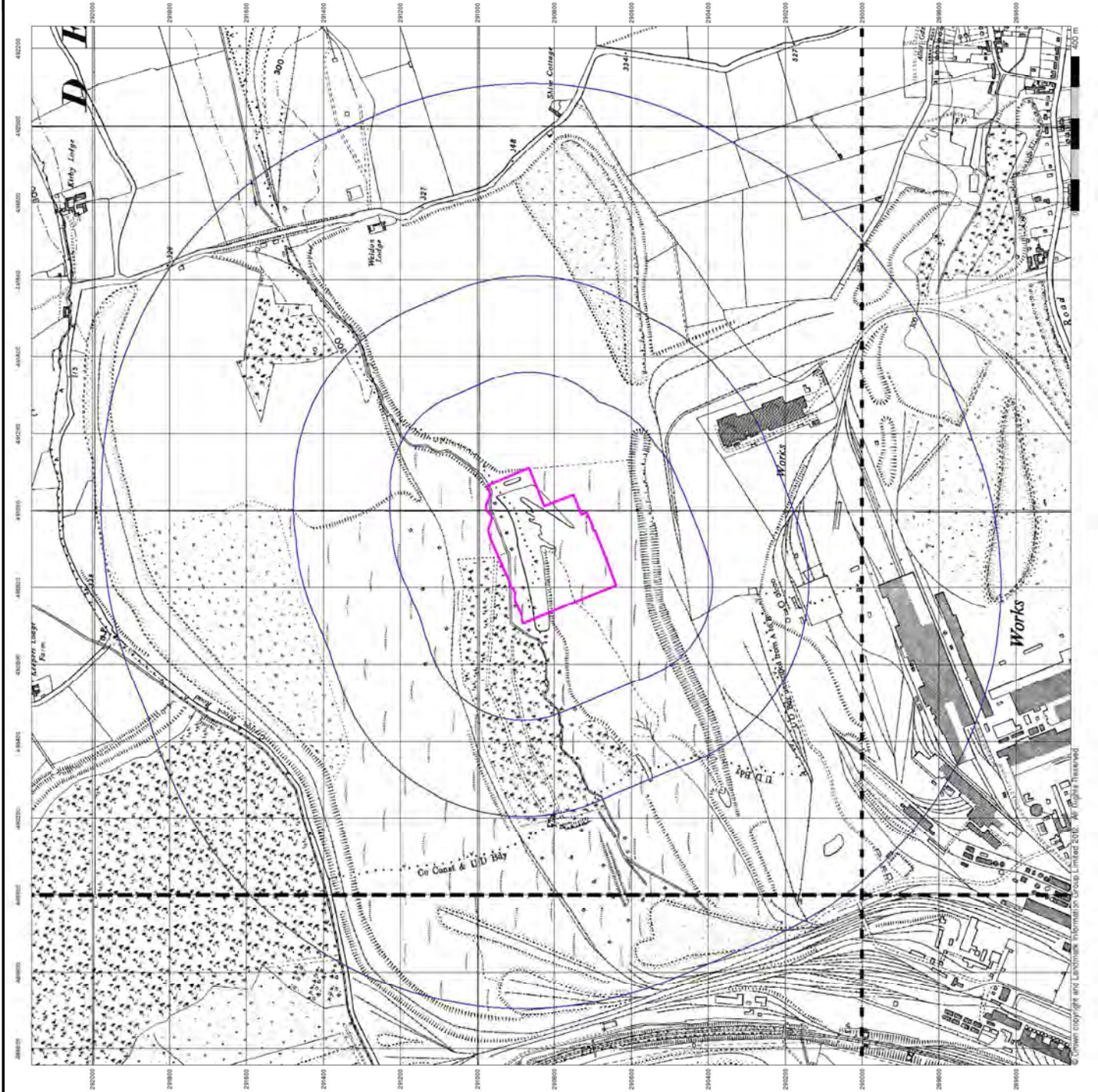


### Order Details

Order Number: 4161989.1\_1  
 Customer Ref: 012-1178  
 National Grid Reference: 490910, 290830  
 Slice: A  
 Site Area (Ha): 8.06  
 Search Buffer (m): 1000

### Site Details

Willowbrook Industrial Estate, Corby, Northamptonshire



## Ordinance Survey Plan Published 1967 - 1968

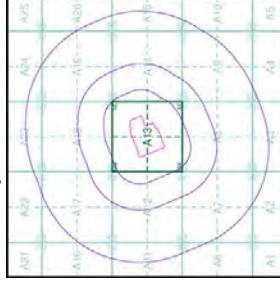
### Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overlaid with the National Grid in 1970; the first revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

### Map Name(s) and Date(s)

SP69SE	1968
1:10,560	
SP69NW	1967
SP69NE	1968
1:10,560	1:10,560

### Historical Map - Slice A

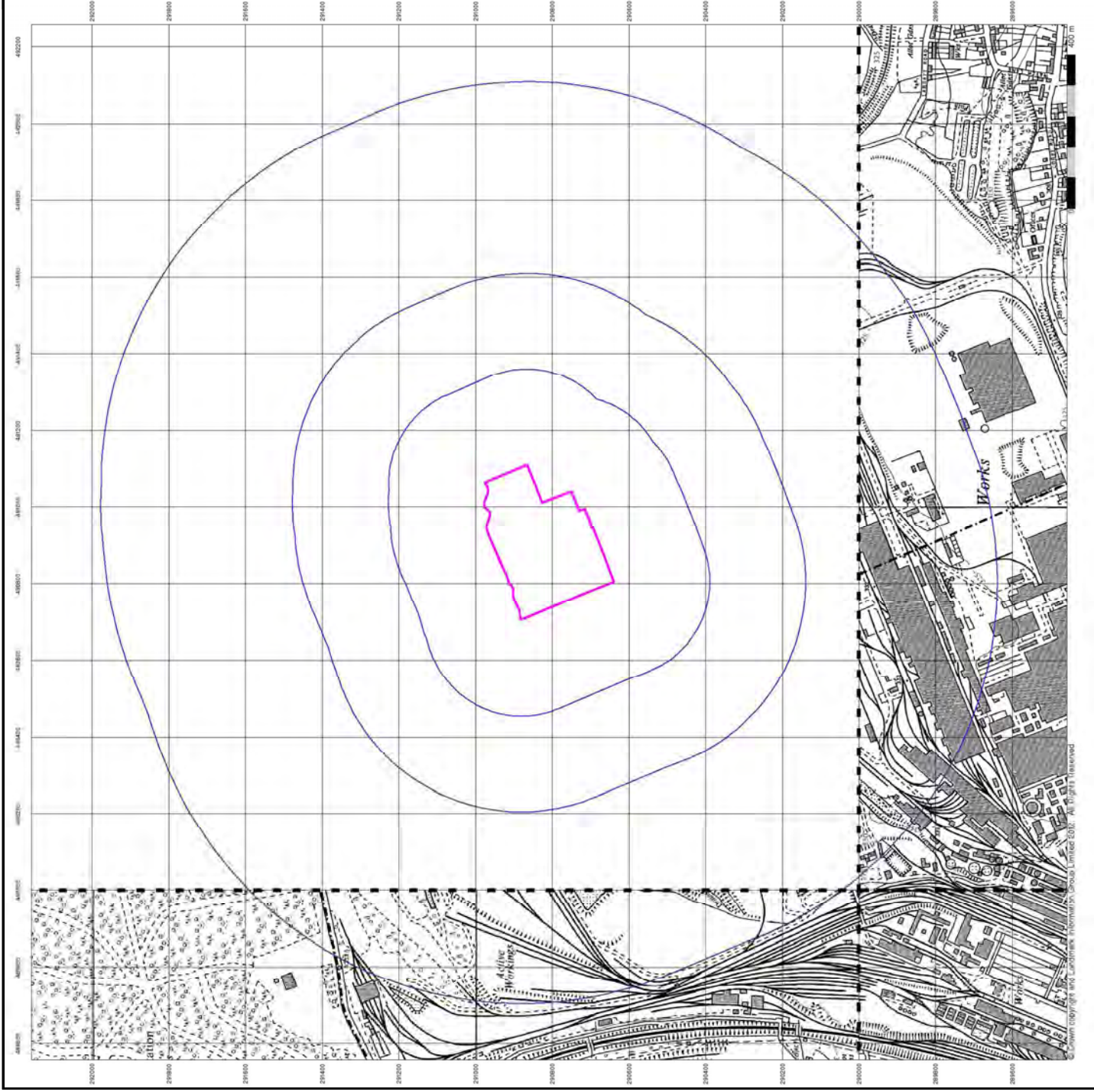


### Order Details

Order Number: 41611989\_1\_1  
 Customer Ref: 012-1178  
 National Grid Reference: 490910, 290830  
 Slice: A  
 Site Area (Ha): 8.06  
 Search Buffer (m): 1000

### Site Details

Willowbrook Industrial Estate, Corby, Northamptonshire





## Ordnance Survey Plan Published 1974 - 1975

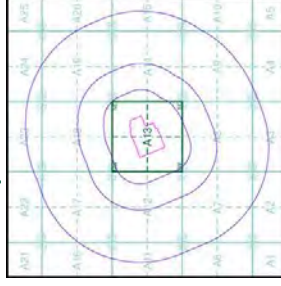
### Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overlaid with the National Grid. In 1970, the first revision process was introduced, giving the maps a new Cassini projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

### Map Name(s) and Date(s)

SPR6SE	1975
SPR6NE	1974

### Historical Map - Slice A



### Order Details

Order Number: 41611989\_1\_1  
 Customer Ref: 012-1178  
 National Grid Reference: 490910, 290830  
 Slice: A  
 Site Area (Ha): 8.06  
 Search Buffer (m): 1000

### Site Details

Willowbrook Industrial Estate, Corby, Northamptonshire



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 Web: www.envirocheck.co.uk



## Ordnance Survey Plan Published 1982 - 1987

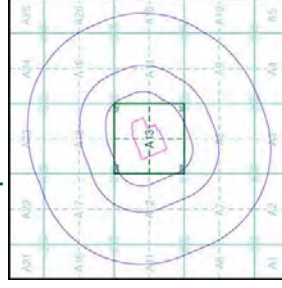
### Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1940's. In 1954 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overlaid with the National Grid. In 1970, the first revision process combined the Provisional Edition with the 1:10,560 maps. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

### Map Name(s) and Date(s)

SP82SE	1987	1:10,000
SP82SW	1985	1:10,000
SP82NE	1982	1:10,000
SP82NW	1982	1:10,000

### Historical Map - Slice A



### Order Details

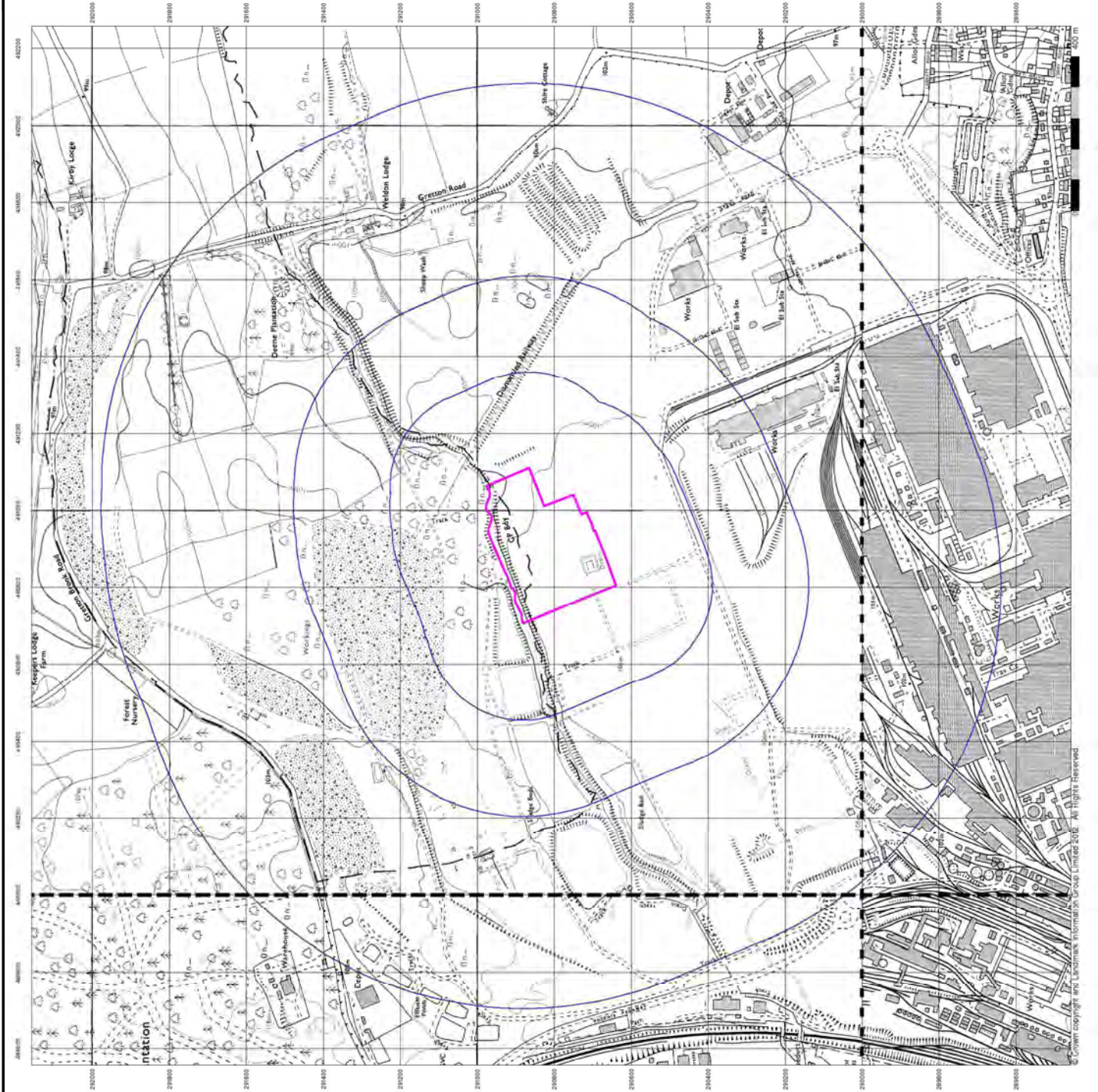
Order Number: 41611989.1\_1  
 Customer Ref: 012-1178  
 National Grid Reference: 490910, 290830  
 Slice: A  
 Site Area (Ha): 8.06  
 Search Buffer (m): 1000

### Site Details

Willowbrook Industrial Estate, Corby, Northamptonshire



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**Ordnance Survey Plan  
Published 1988**

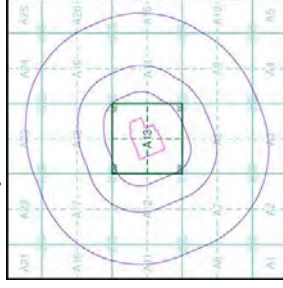
**Source map scale - 1:10,000**

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overlaid with the National Grid. In 1970, the first edition of the maps was reissued using the Cassini projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

**Map Name(s) and Date(s)**



**Historical Map - Slice A**



**Order Details**

Order Number: 41611989\_1\_1  
Customer Ref: 012-1178  
National Grid Reference: 490910, 290830  
Slice: A  
Site Area (Ha): 8.06  
Search Buffer (m): 1000

**Site Details**

Willowbrook Industrial Estate, Corby, Northamptonshire



## Ordnance Survey Plan Published 1992

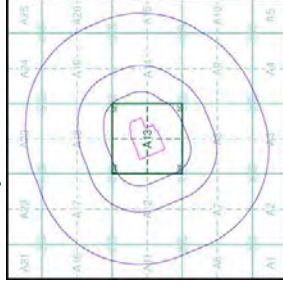
### Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overlaid with the National Grid. In 1970, the first edition of the maps was reissued in the Cassini Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

### Map Name(s) and Date(s)



### Historical Map - Slice A



### Order Details

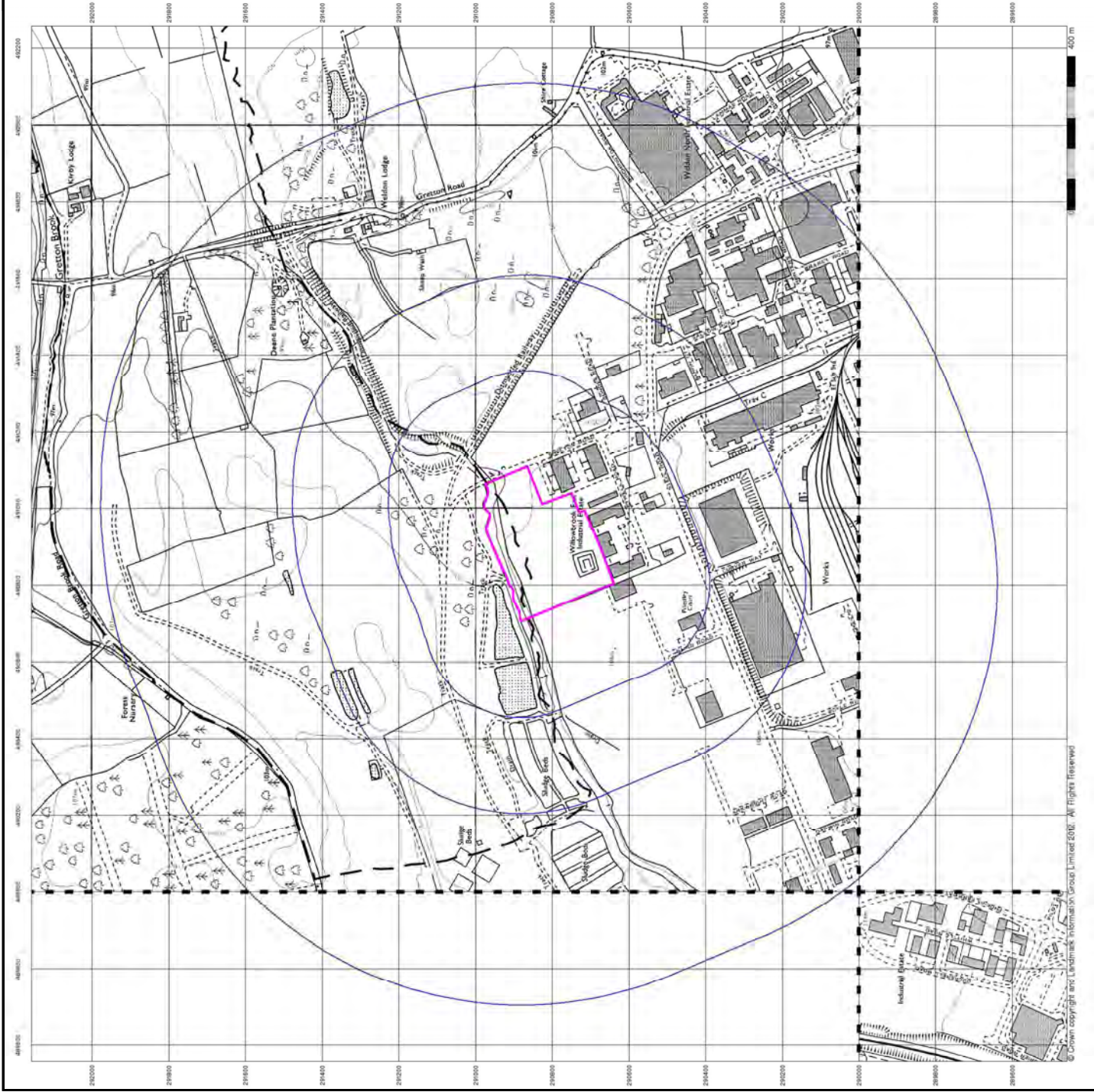
Order Number: 41611989\_1\_1  
 Customer Ref: 012-1178  
 National Grid Reference: 490910, 290830  
 Slice: A  
 Site Area (Ha): 8.06  
 Search Buffer (m): 1000

### Site Details

Willowbrook Industrial Estate, Corby, Northamptonshire



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## 10k Raster Mapping Published 2006

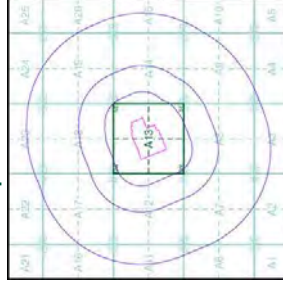
### Source map scale - 1:10,000

The historical maps shown were produced from the Ordnance Survey's 1:10,000 colour maps. These maps are derived from Landranger 1:10,000 contour maps. The data is highly detailed showing buildings, fences and field boundaries as well as all roads, tracks and paths. Road names are also included together with the relevant road number and classification. Boundary information depiction includes county, unitary authority, district, civil parish and constituency.

### Map Name(s) and Date(s)

SP98SE	SP98SW
2006	2006
1:10,000	1:10,000
SP98AE	SP98AW
2006	2006
1:10,000	1:10,000

### Historical Map - Slice A



### Order Details

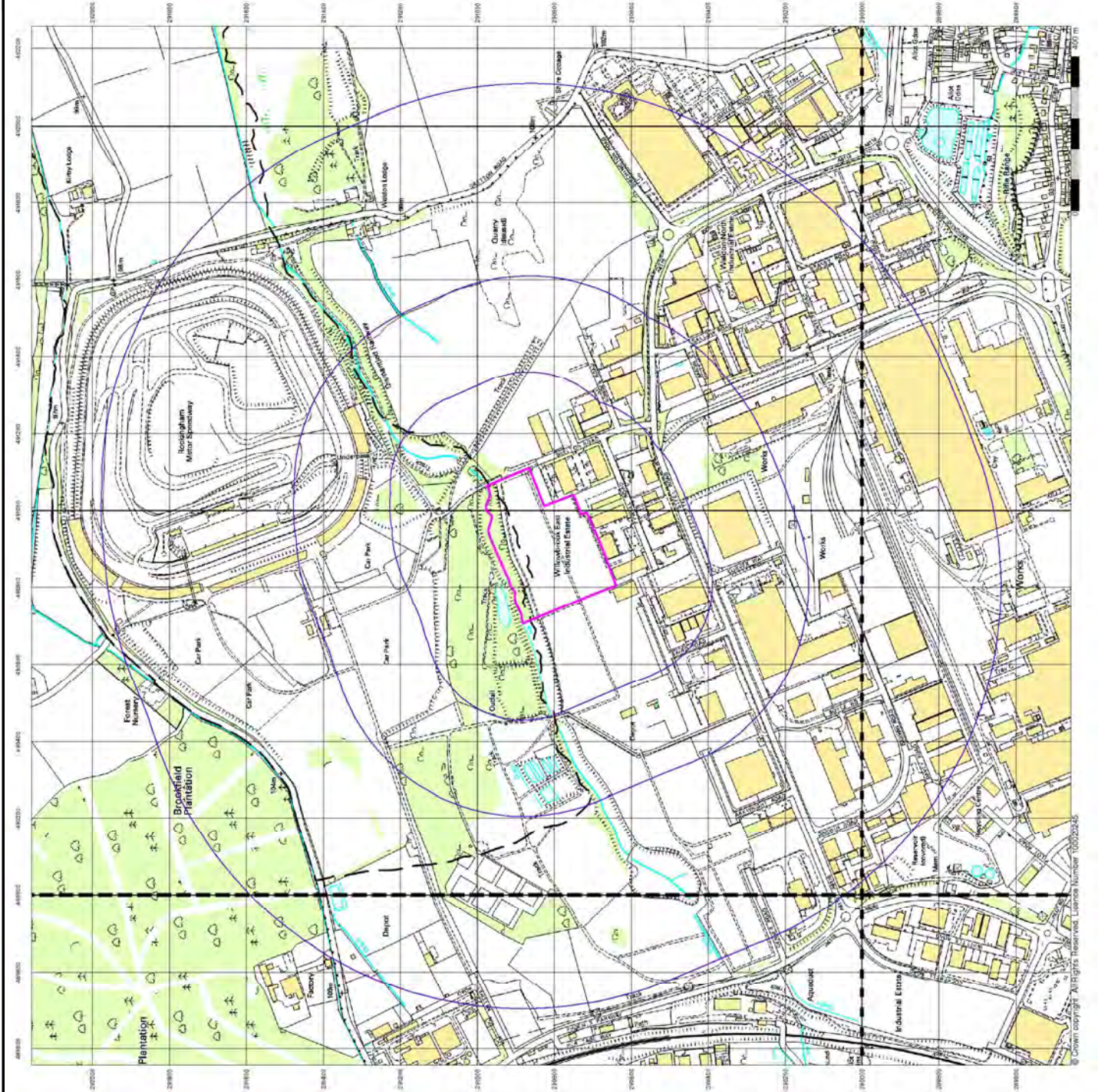
Order Number: 41611989\_1\_1  
 Customer Ref: 012-1178  
 National Grid Reference: 490910, 290830  
 Slice: A  
 Site Area (Ha): 8.06  
 Search Buffer (m): 1000

### Site Details

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## 10k Raster Mapping Published 2012

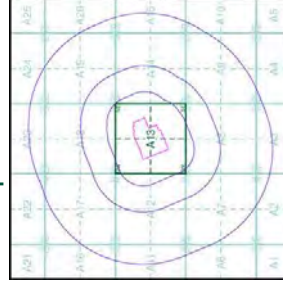
### Source map scale - 1:10,000

The historical maps shown were produced from the Ordnance Survey's 1:10,000 colour maps. These maps are derived from a European which replaced the old 1:10,000 maps originally published in 1970. The data is highly detailed showing buildings, fences and field boundaries as well as all roads, tracks and paths. Road names are also included together with the relevant road number and classification. Boundary information depiction includes county, unitary authority, district, civil parish and constituency.

### Map Name(s) and Date(s)

SP98SE	SP98SW
2012	2012
1:10,000	1:10,000
SP98NE	SP98NW
2012	2012
1:10,000	1:10,000

### Historical Map - Slice A



### Order Details

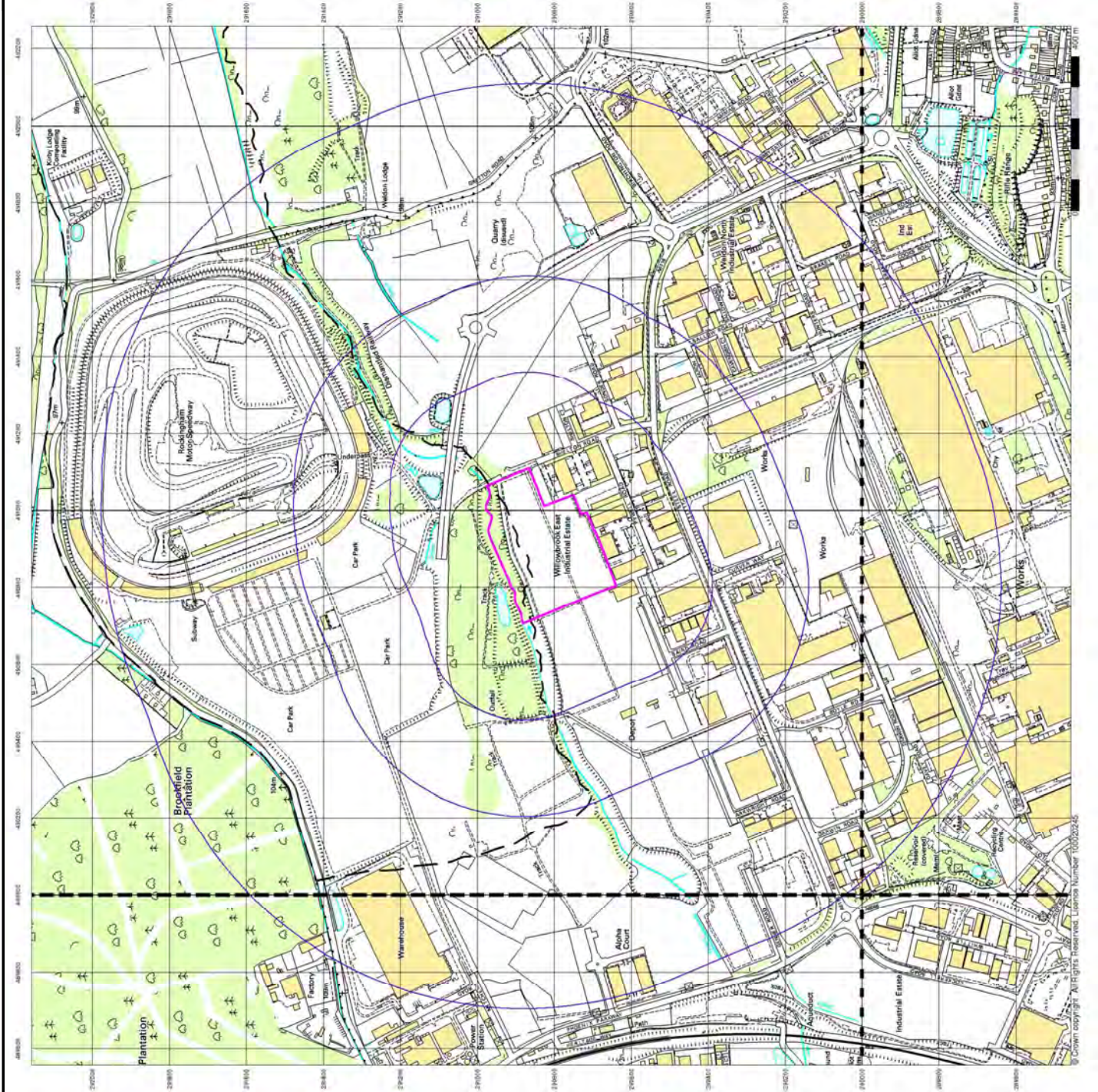
Order Number: 41611989\_1\_1  
 Customer Ref: 012-1178  
 National Grid Reference: 490910, 290830  
 Slice: A  
 Site Area (Ha): 8.06  
 Search Buffer (m): 1000

### Site Details

Willowbrook Industrial Estate, Corby, Northamptonshire



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 Web: www.emrcheck.co.uk







**Northamptonshire  
Published 1886**

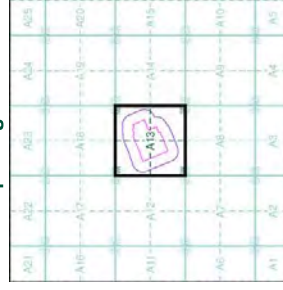
**Source map scale - 1:2,500**

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1898, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

**Map Name(s) and Date(s)**



**Historical Map - Segment A13**



**Order Details**

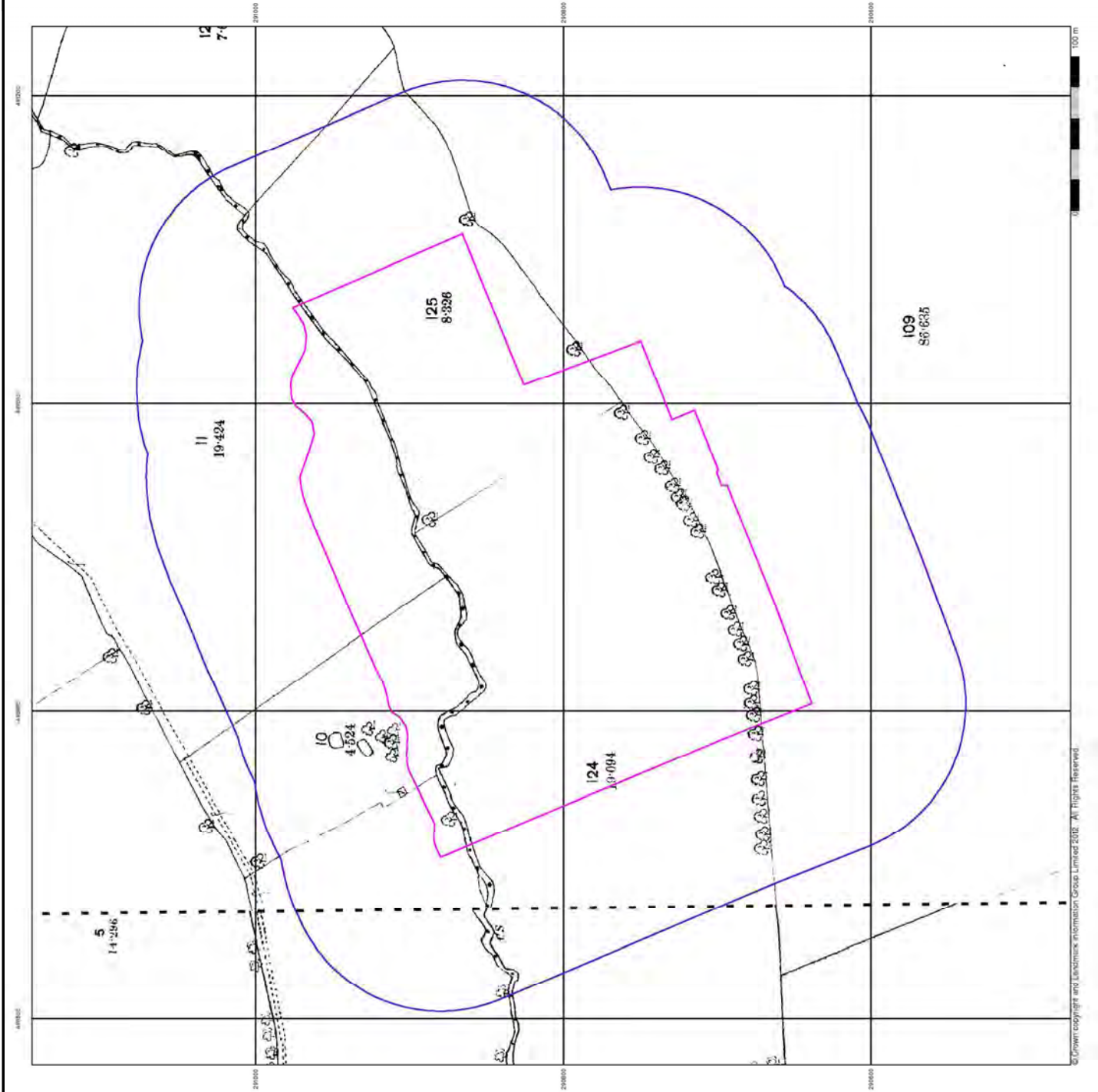
Order Number: 41611989\_1\_1  
 Customer Ref: 012-1178  
 National Grid Reference: 490910, 290830  
 Slice: A  
 Site Area (Ha): 8.06  
 Search Buffer (m): 100

**Site Details**

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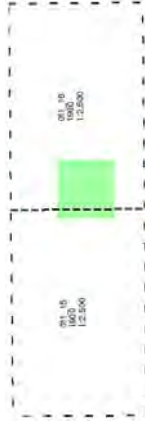


**Northamptonshire  
Published 1900**

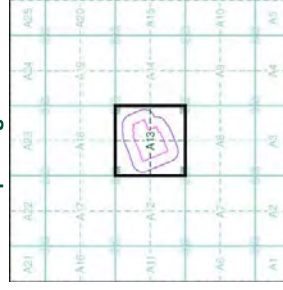
**Source map scale - 1:2,500**

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1898, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

**Map Name(s) and Date(s)**



**Historical Map - Segment A13**



**Order Details**

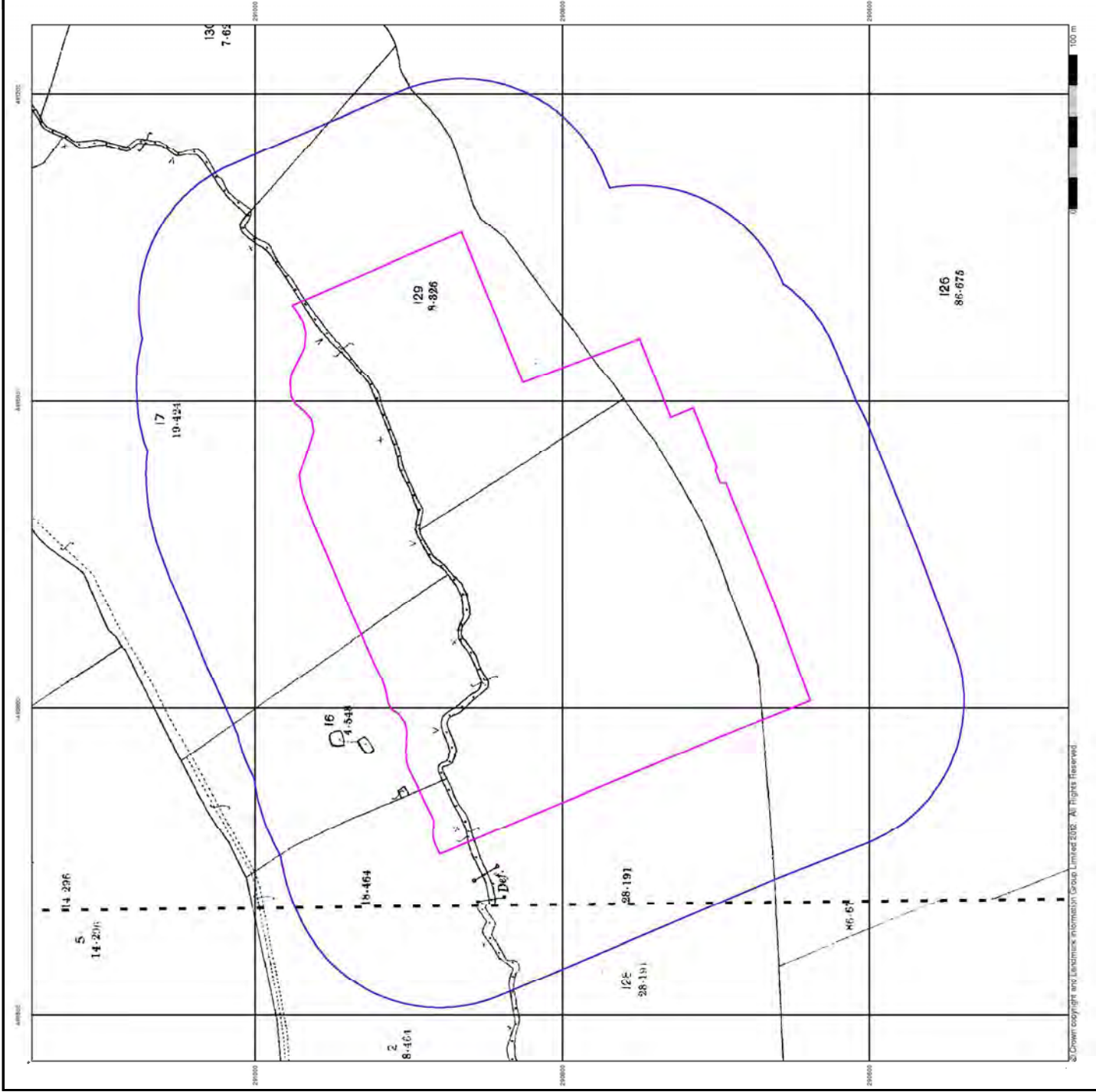
Order Number: 41611989\_1\_1  
 Customer Ref: 012-1178  
 National Grid Reference: 490910, 290830  
 Slice: A  
 Site Area (Ha): 8.06  
 Search Buffer (m): 100

**Site Details**

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# Northamptonshire Published 1938

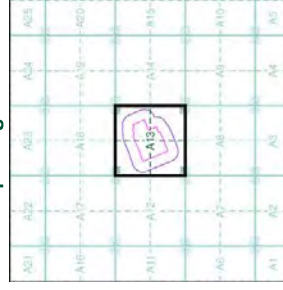
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1898, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

## Map Name(s) and Date(s)



## Historical Map - Segment A13



## Order Details

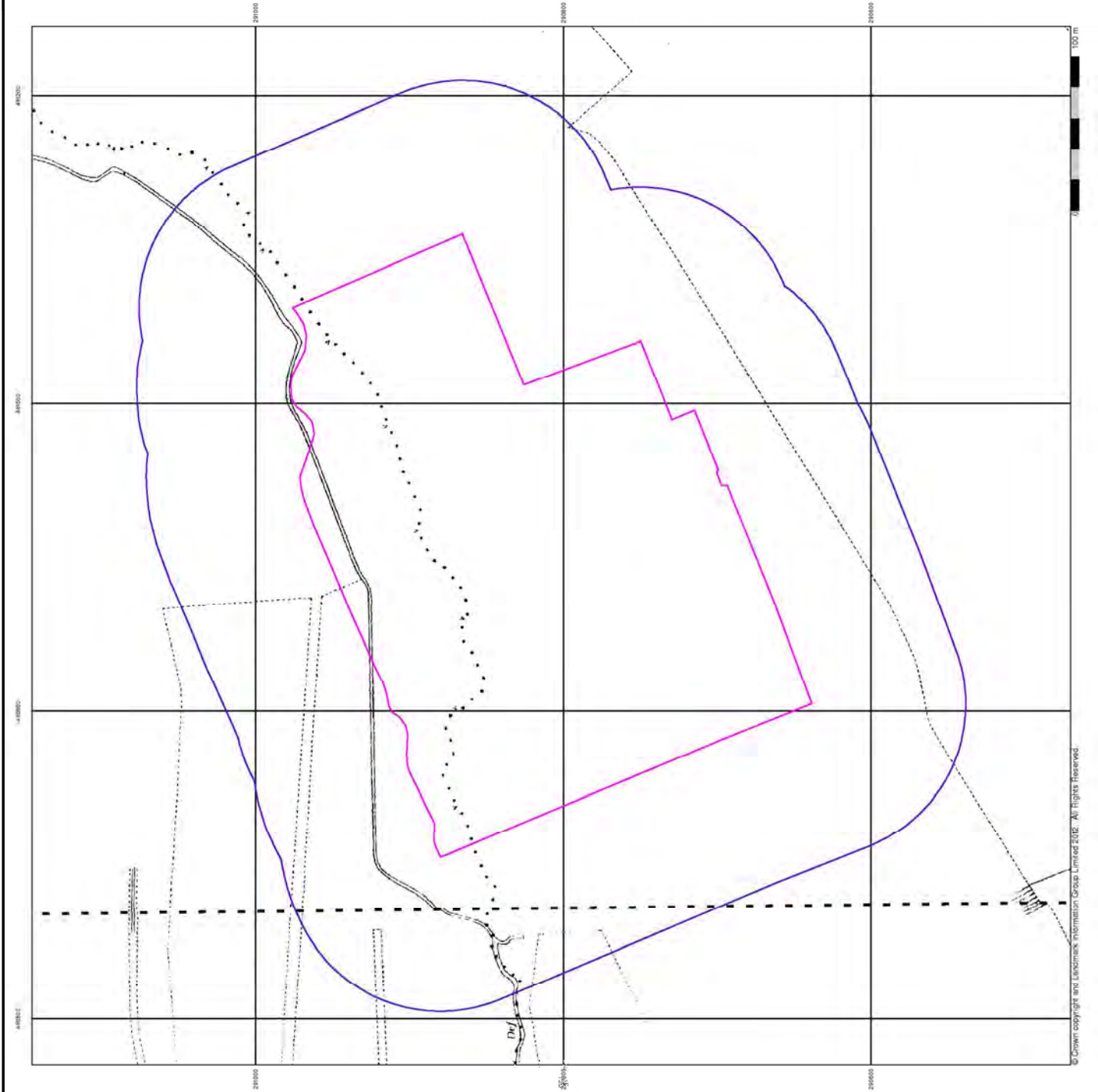
Order Number: 41611989\_1\_1  
Customer Ref: 012-1178  
National Grid Reference: 490910, 290830  
Slice: A  
Site Area (Ha): 8.06  
Search Buffer (m): 100

## Site Details

Willowbrook Industrial Estate, Corby, Northamptonshire



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## Ordnance Survey Plan Published 1964

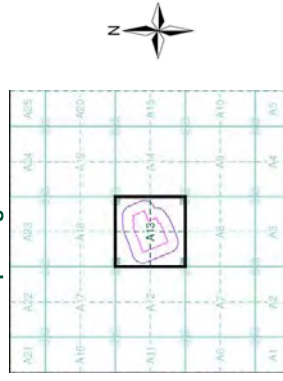
### Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1898, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

### Map Name(s) and Date(s)

SP 1042	SP 1041
1942	1941
1:2,500	1:2,500
SP 1040	SP 1040
1:2,500	1:2,500

### Historical Map - Segment A13



### Order Details

Order Number: 41611989\_1\_1  
 Customer Ref: 012-1178  
 National Grid Reference: 490910, 290830  
 Slice: A  
 Site Area (Ha): 8.06  
 Search Buffer (m): 100

### Site Details

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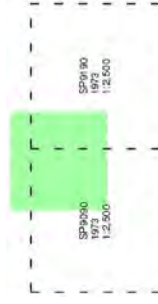


## Ordnance Survey Plan Published 1973

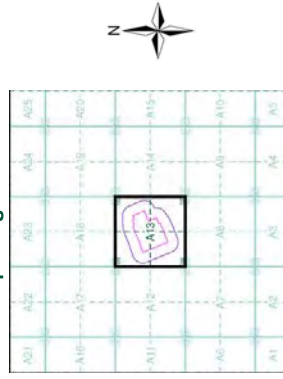
### Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1898, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

### Map Name(s) and Date(s)



### Historical Map - Segment A13



### Order Details

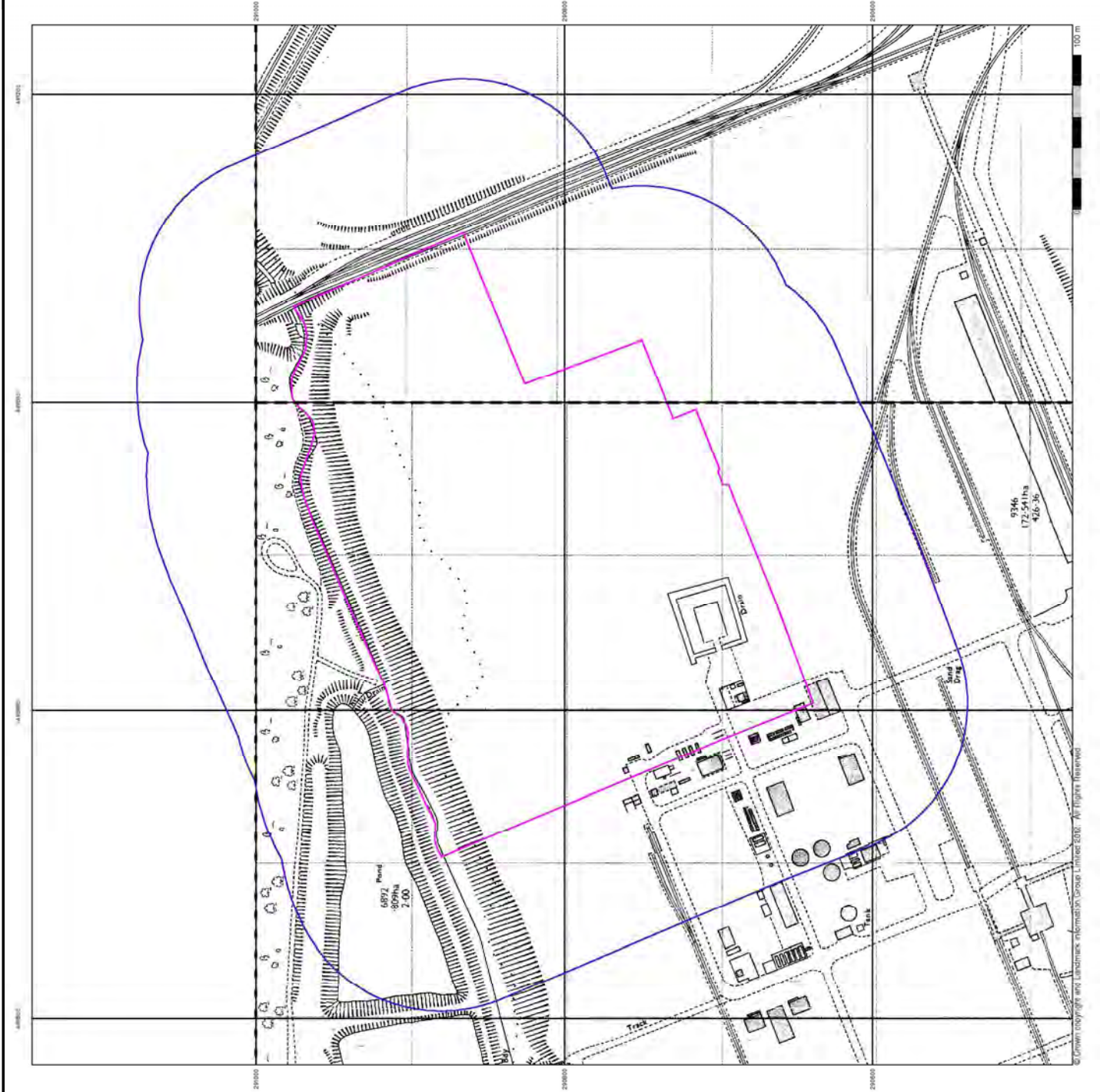
Order Number: 41611989\_1\_1  
 Customer Ref: 012-1178  
 National Grid Reference: 490910, 290830  
 Slice: A  
 Site Area (Ha): 8.06  
 Search Buffer (m): 100

### Site Details

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**Additional SIMS**

**Published 1978 - 1988**

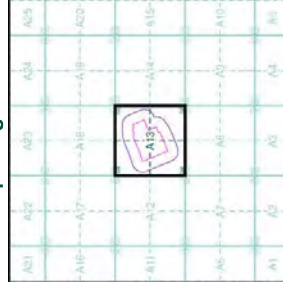
**Source map scale - 1:2,500**

The SIM leads (Ordinance Survey's 'Survey of Information on Microfilm') are further editions which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

**Map Name(s) and Date(s)**

SP4591	SP4591	1980
1:2,500	1:2,500	
SP4590	SP4590	1:2,500
1:2,500	1:2,500	

**Historical Map - Segment A13**



**Order Details**

Order Number: 41611989\_1\_1  
 Customer Ref: 012-1178  
 National Grid Reference: 490910, 290830  
 Slice: A  
 Site Area (Ha): 8.06  
 Search Buffer (m): 100

**Site Details**

Willowbrook Industrial Estate, Corby, Northamptonshire



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**Additional SIMs**

**Published 1986 - 1988**

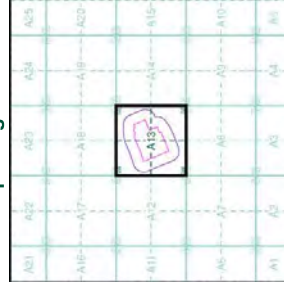
**Source map scale - 1:2,500**

The SIM cards (Ordinance Survey's 'Survey of Information on Microfilm') are further editions of the SIM cards which were produced and published in 1986 and 1988. They contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

**Map Name(s) and Date(s)**

SP 4591	1986	1:2,500
SP 4590	1986	1:2,500
SP 4590	1986	1:2,500

**Historical Map - Segment A13**



**Order Details**

Order Number: 41611989\_1\_1  
 Customer Ref: 012-1178  
 National Grid Reference: 490910, 290830  
 Slice: A  
 Site Area (Ha): 8.06  
 Search Buffer (m): 100

**Site Details**

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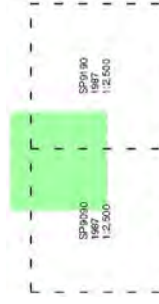


## Ordnance Survey Plan Published 1987

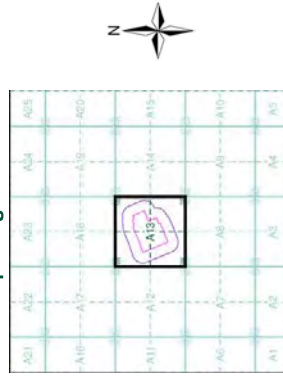
### Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1898, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

### Map Name(s) and Date(s)



### Historical Map - Segment A13



### Order Details

Order Number: 41611989\_1\_1  
 Customer Ref: 012-1178  
 National Grid Reference: 490910, 290830  
 Slice: A  
 Site Area (Ha): 8.06  
 Search Buffer (m): 100

### Site Details

Willowbrook Industrial Estate, Corby, Northamptonshire



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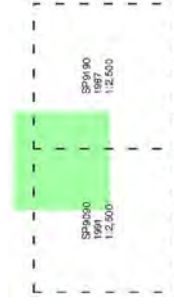
**Additional SIMs**

**Published 1987 - 1991**

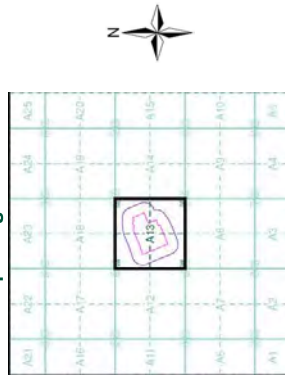
**Source map scale - 1:2,500**

The SIM cards (Ordinance Survey's 'Survey of Information on Microfilm') are further editions of the SIMs which were produced and published in 1987. The main editions of the SIMs were updated in 1987, 1991, 1994, and contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

**Map Name(s) and Date(s)**



**Historical Map - Segment A13**



**Order Details**

Order Number: 41611989\_1\_1  
 Customer Ref: 012-1178  
 National Grid Reference: 490910, 290830  
 Slice: A  
 Site Area (Ha): 8.06  
 Search Buffer (m): 100

**Site Details**

Willowbrook Industrial Estate, Corby, Northamptonshire



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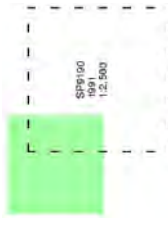


**Additional SIMs  
Published 1991**

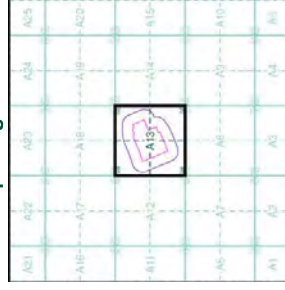
**Source map scale - 1:2,500**

The SIM cards (Ordinance Survey's 'Survey of Information on Microfilm') are further editions of the SIMs which were produced and published in 1984, and contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

**Map Name(s) and Date(s)**



**Historical Map - Segment A13**



**Order Details**

Order Number: 41611989\_1\_1  
 Customer Ref: 012-1178  
 National Grid Reference: 490910, 290830  
 Slice: A  
 Site Area (Ha): 8.06  
 Search Buffer (m): 100

**Site Details**

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# Large-Scale National Grid Data Published 1993

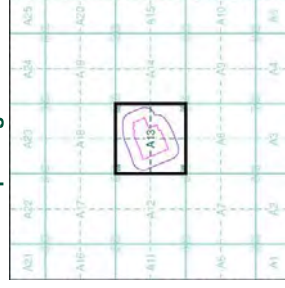
Source map scale - 1:2,500

Large Scale National Grid Data superseded SIM roads (Ordnance Survey's Survey of Information on Microfilm) in 1992 and continued to be updated until 1993. These maps were the fore-runners of digital mapping and so provide detailed information on houses and roads, but tend to show less topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

## Map Name(s) and Date(s)

SP43081	SP43091
1:2,500	1:2,500
SP43090	SP43090
1:2,500	1:2,500

## Historical Map - Segment A13



## Order Details

Order Number: 41611989\_1\_1  
 Customer Ref: 012-1178  
 National Grid Reference: 490910, 290830  
 Slice: A  
 Site Area (Ha): 8.06  
 Search Buffer (m): 100

## Site Details

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 Fax: 0844 844 9851  
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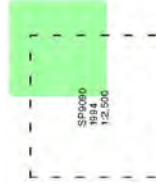


## Large-Scale National Grid Data Published 1994

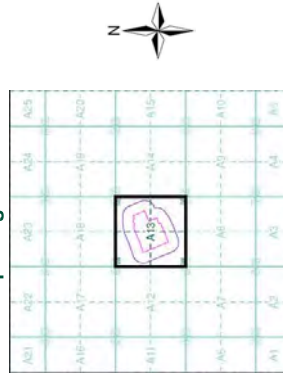
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Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survey of Information on Microfilm' 1982) and intended to be used until 1999. These maps were the fore-runners of digital mapping and so provide detailed information on houses and roads, but tend to show less topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

### Map Name(s) and Date(s)



### Historical Map - Segment A13



### Order Details

Order Number: 41611989\_1\_1  
 Customer Ref: 012-1178  
 National Grid Reference: 490910, 290830  
 Slice: A  
 Site Area (Ha): 8.06  
 Search Buffer (m): 100

### Site Details

Willowbrook Industrial Estate, Corby, Northamptonshire



Tel: 0844 844 9852  
 Fax: 0844 844 9851  
 Web: www.envirocheck.co.uk





## Large-Scale National Grid Data Published 1996

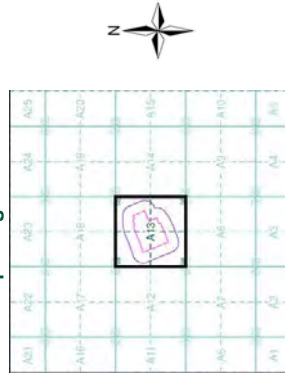
### Source map scale - 1:2,500

Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survey of Information on Microfilm' 1992) and continued to be updated until 1999. These maps were the fore-runners of digital mapping and so provide detailed information on houses and roads, but tend to show less topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

### Map Name(s) and Date(s)



### Historical Map - Segment A13



### Order Details

Order Number: 41611989\_1\_1  
 Customer Ref: 012-1178  
 National Grid Reference: 490910, 290830  
 Slice: A  
 Site Area (Ha): 8.06  
 Search Buffer (m): 100

### Site Details

Willowbrook Industrial Estate, Corby, Northamptonshire



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 Fax: 0844 844 9851  
 Web: www.emvcheck.co.uk



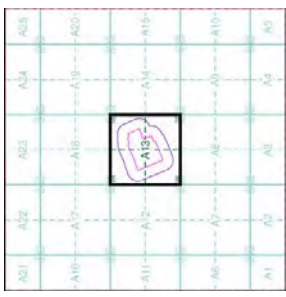
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- General**
- Specified Site
  - Specified Buffer(s)
  - ✕ Bearing Reference Point
  - Map ID
  - Severn of Type at Location
- Agency and Hydrological**
- Contaminated Land Register Entry or Notice (Location)
  - Contaminated Land Register Entry or Notice (Location)
  - Discharge Consent
  - Enforcement or Prohibition Notice
  - Integrated Pollution Control
  - Local Authority Integrated Pollution Prevention and Control
  - Local Authority Pollution Prevention and Control Enforcement
  - Pollution Incident to Controlled Waters
  - Prescription Relating to Controlled Waters
  - Registered Radioactive Substance
  - River Network or Water Feature
  - River Quality Sampling Point
  - Substantiated Pollution Incident Register
  - Water Abstraction
  - Water Industry Act Referral
- Waste**
- BOS Recorded Landfill Site (Location)
  - BOS Recorded Landfill Site (Location)
  - EA Historic Landfill (Surface Area)
  - Hazardous Waste Control Registered Waste Site
  - Licensed Waste Management Facility (Location)
  - Licensed Waste Management Facility (Location)
  - Local Authority Recorded Landfill Site (Location)
  - Local Authority Recorded Landfill Site (Location)
  - Registered Landfill Site
  - Registered Landfill Site (via Referral to 100m)
  - Registered Waste Transfer Site (Location)
  - Registered Waste Transfer Site (Location)
  - Registered Waste Treatment or Disposal Site (Location)
  - Registered Waste Treatment or Disposal Site (Location)
- Hazardous Substances**
- COMAH Site
  - Explosive Site
  - NHS Site
  - Planning Hazardous Substance Consent
  - Planning Hazardous Substance Enhancement
- Geological**
- BOS Recorded Mineral Site
- Industrial Land Use**
- Contemporary Trade Directory Entry
  - Fuel Station Entry



**Site Sensitivity Map - Segment A13**



**Order Details**

Order Number: 41611989\_1\_1  
 Customer Ref: 012-1178  
 National Grid Reference: 490910, 290830  
 Slice: A  
 Site Area (Ha): 8.06

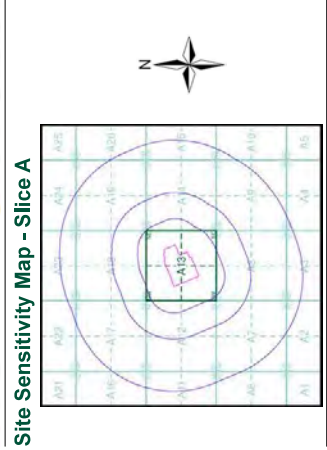
**Site Details**

Willowbrook Industrial Estate, Corby, Northamptonshire



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- General**
- Specified Site
  - Severe or Type at Location
  - Bearing Reference Point
  - Map ID
- Agency and Hydrological**
- Contaminated Land Register Entry or Notice (Location)
  - Contaminated Land Register Entry or Notice (Location)
  - Discharge Consent
  - Enforcement or Prohibition Notice
  - Integrated Pollution Control
  - Local Authority Integrated Pollution Prevention and Control (Location)
  - Local Authority Pollution Prevention and Control Enforcement
  - Local Authority Pollution Prevention and Control Incident to Controlled Waters
  - Prescription Relating to Controlled Waters
  - Registered Radioactive Substance
  - River Network or Water Feature
  - River Quality Sampling Point
  - Substantiated Pollution Incident Register
  - Water Abstraction
  - Water Industry Act Referral
- Waste**
- BOS Recorded Landfill Site (Location)
  - BOS Recorded Landfill Site (Location)
  - EA Historic Landfill (Surface Area)
  - EA Historic Landfill (Surface Area)
  - Increased Pollution Control Registered Waste Site
  - Licensed Waste Management Facility (Location)
  - Local Authority Recorded Landfill Site (Location)
  - Local Authority Recorded Landfill Site (Location)
  - Registered Landfill Site (Location)
  - Registered Landfill Site (Pits buried to 100m)
  - Registered Landfill Site (Pits buried to 20m)
  - Registered Waste Transfer Site (Location)
  - Registered Waste Transfer Site (Location)
  - Registered Waste Treatment or Disposal Site (Location)
  - Registered Waste Treatment or Disposal Site
  - COMAH Site
  - Explosive Site
  - NHRS Site
  - Planning Hazardous Substance Consent
  - Planning Hazardous Substance Enforcement
- Geological**
- BOS Recorded Mineral Site
  - Industrial Land Use
  - Contemporary Trade Directory Entry
  - Fuel Station Entry



**Order Details**

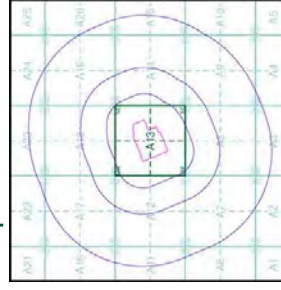
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 National Grid Reference: 490910, 290830  
 Slice: A  
 Site Area (Ha): 8.06  
 Search Buffer (m): 1000

**Site Details**

Willowbrook Industrial Estate, Corby, Northamptonshire

- General**
- Specified Site
  - Specified Buffer(s)
  - X Bearing Reference Point
- Agency and Hydrological (Flood)**
- Extreme Flooding from Rivers or Sea without Defences (Zone 2)
  - Flooding from Rivers or Sea without Defences (Zone 3)
  - ▨ Area Benefiting from Flood Defence
  - Flood Water Storage Areas
  - - - Flood Defence

**Flood Map - Slice A**



**Order Details**

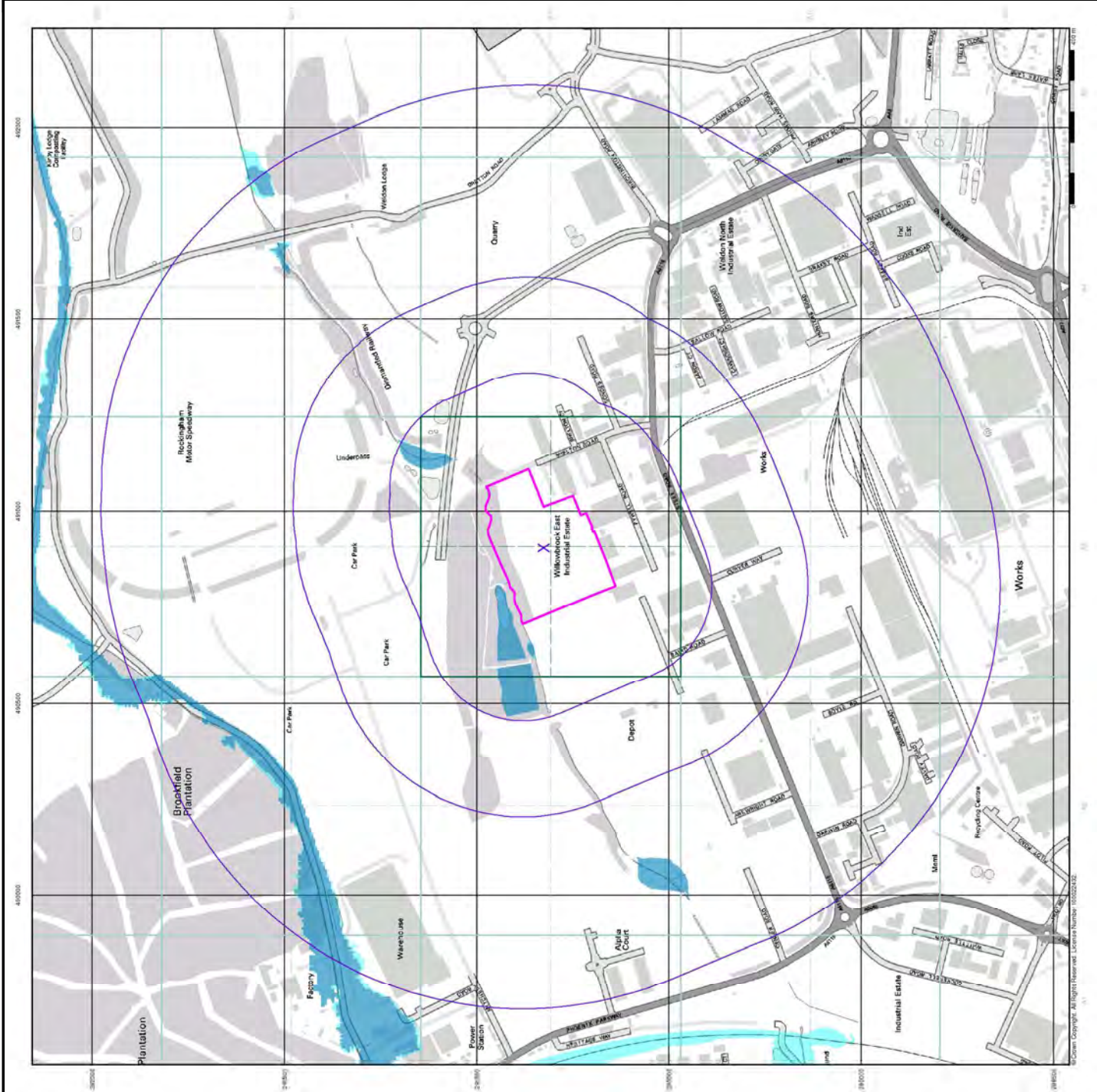
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 Customer Ref: 012-1178  
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 Slice: A  
 Site Area (Ha): 8.06  
 Search Buffer (m): 1000

**Site Details**

Willowbrook Industrial Estate, Corby, Northamptonshire



Tel: 0844 844 9852  
 Fax: 0844 844 9851  
 Web: www.earthcheck.co.uk



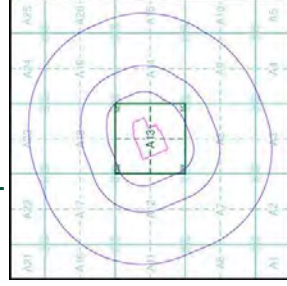
- General**
- Specified Site
  - Specified Buffer(s)
  - ✕ Bearing Reference Point
  - Map ID
  - Several of Type at Location

**Agency and Hydrological (Boreholes)**

- BGS Borehole Depth 0 - 1.0m
- BGS Borehole Depth 1.0 - 3.0m
- BGS Borehole Depth 3.0m +
- Confidential
- Other

For Borehole information please refer to the Borehole .csv file which accompanied this slice.  
A copy of the BGS Borehole Ordering Form is available to download from the Support section of [www.envirocheck.co.uk](http://www.envirocheck.co.uk).

**Borehole Map - Slice A**



**Order Details**

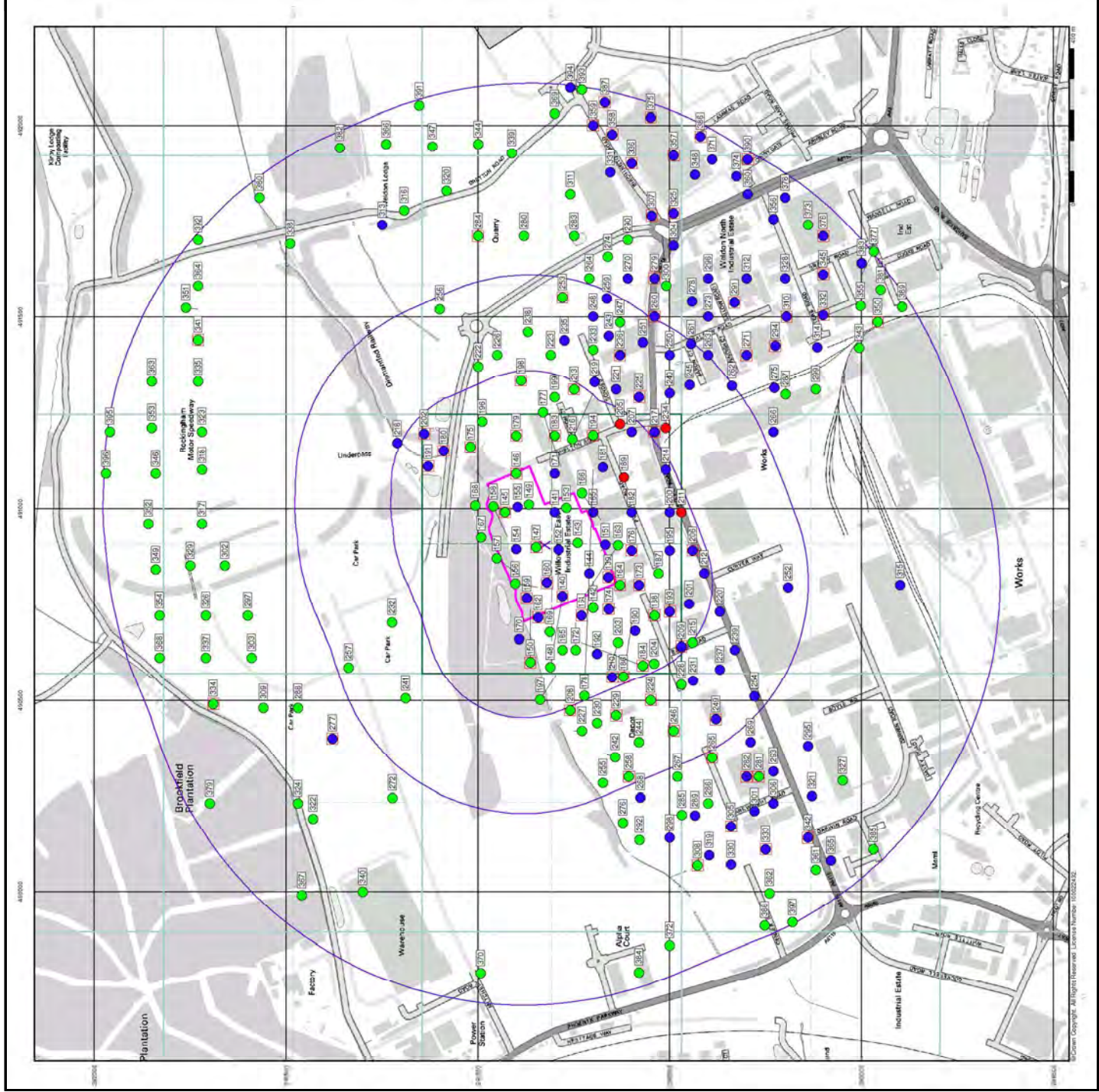
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 Site Area (Ha): 8.06  
 Search Buffer (m): 1000

**Site Details**

Willowbrook Industrial Estate, Corby, Northamptonshire



Tel: 0844 844 9852  
 Fax: 0844 844 9851  
 Web: [www.envirocheck.co.uk](http://www.envirocheck.co.uk)

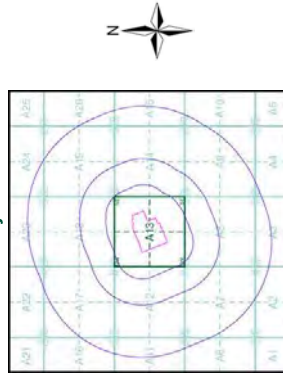


**Urban Soil Chemistry Arsenic**

● BGS Urban Soil Chemistry Measured Concentration Values (mg/kg)  
 Arsenic Concentrations: mg/kg



**Urban Soil Chemistry Arsenic - Slice A**

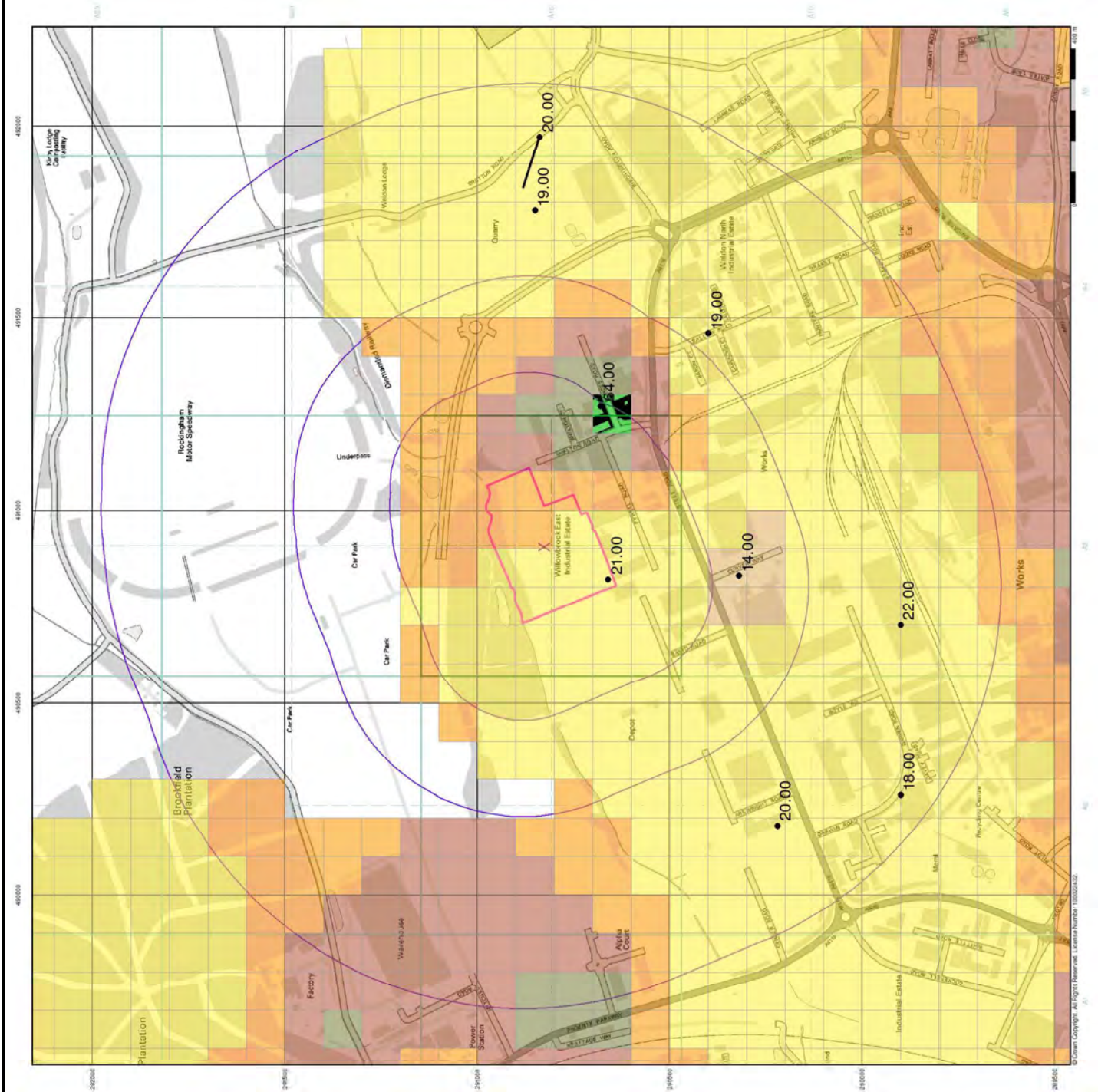


**Order Details**

Order Details: 41611989\_1\_1  
 Customer Ref: 012-1178  
 National Grid Reference: 490910, 290830  
 Slice: A  
 Site Area (Ha): 8.06  
 Search buffer (m): 1000

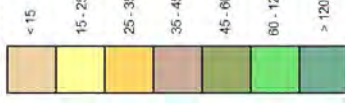
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Willowbrook Industrial Estate, Corby, Northamptonshire

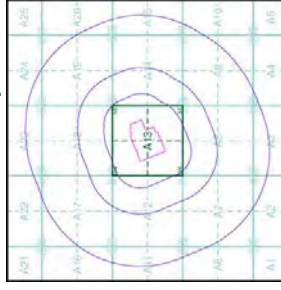


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Arsenic Concentrations mg/kg



**Estimated Soil Chemistry Arsenic - Slice A**

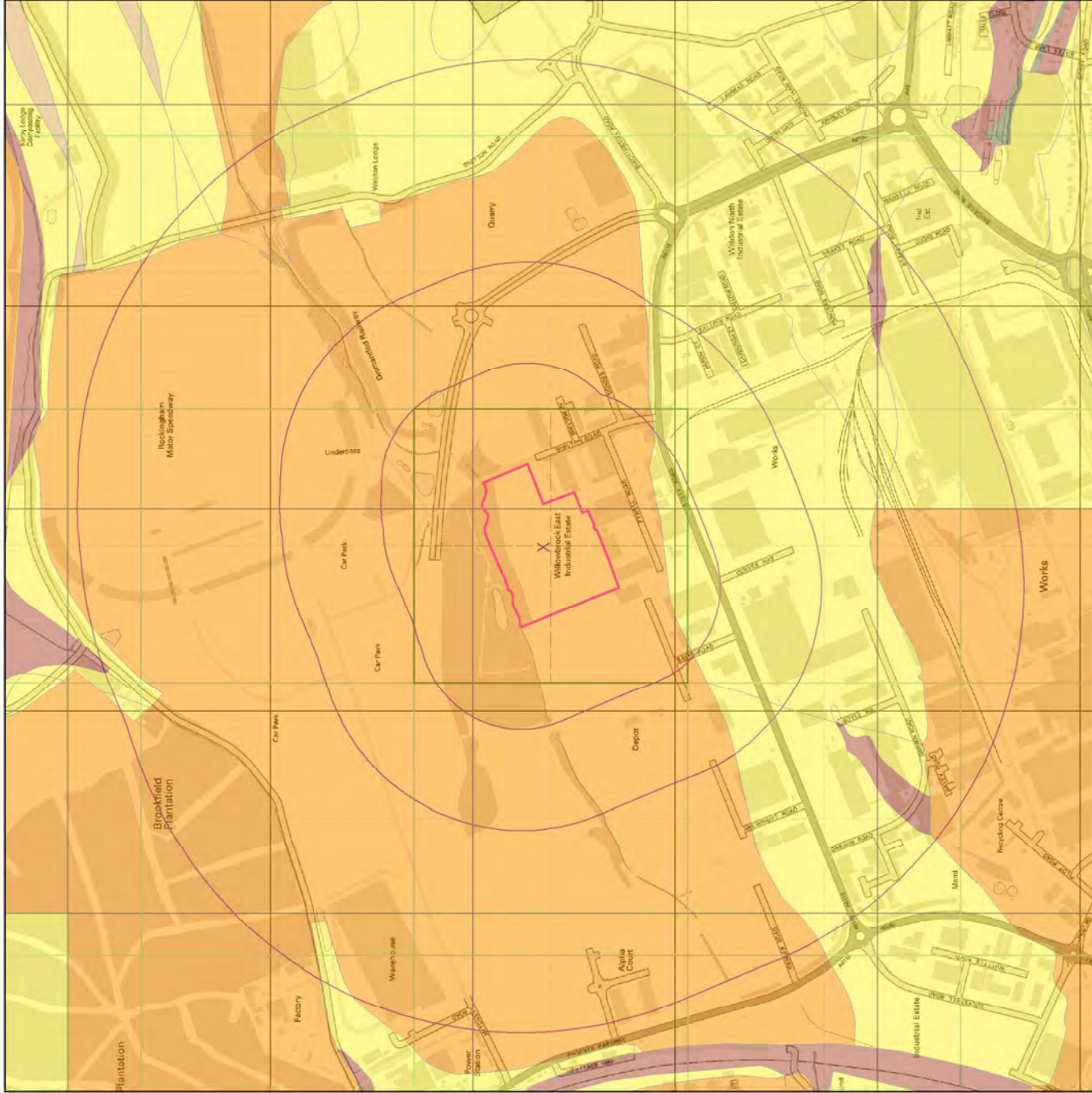


**Order Details**

Order Details: 41611989\_1\_1  
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**Site Details**


Willowbrook Industrial Estate, Corby, Northamptonshire

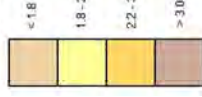


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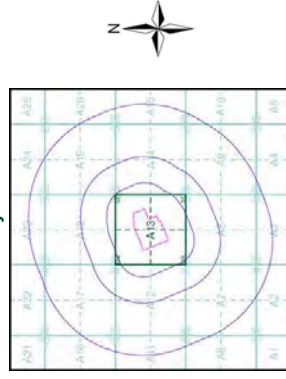
-  Specified Site
-  Specified Buffer(s)
-  Boring Reference Point

**Urban Soil Chemistry Cadmium**

-  BGS Urban Soil Chemistry Measured Concentration Values (mg/kg) Cadmium Concentrations mg/kg



**Urban Soil Chemistry Cadmium - Slice A**



**Order Details**

Order Details: 41611989\_1\_1  
 Customer Ref: 012-1178  
 National Grid Reference: 490910, 290830  
 Slice: A  
 Site Area (Ha): 8.06  
 Search buffer (m): 1000

**Site Details**

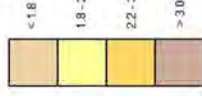
Willowbrook Industrial Estate, Corby, Northamptonshire



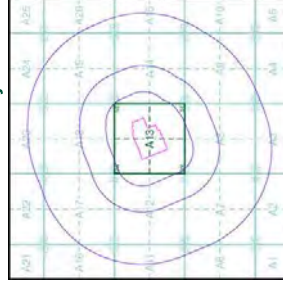
Tel: 0844 844 9852  
 Fax: 0844 844 9851  
 Web: www.entrincheck.co.uk



Cadmium Concentrations mg/kg



**Estimated Soil Chemistry Cadmium - Slice A**

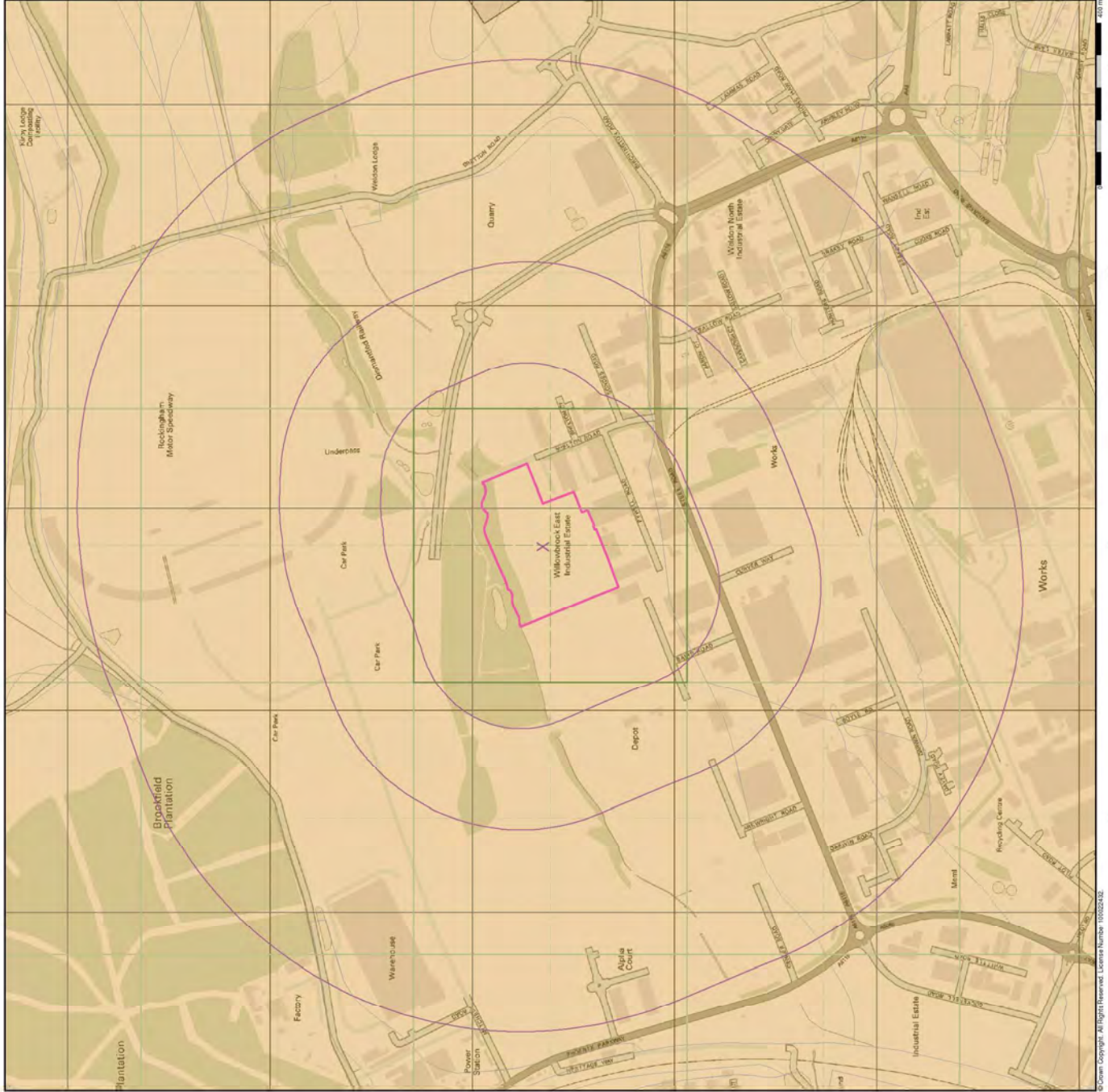


**Order Details**

Order Details: 41611989\_1\_1  
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**Site Details**

Willowbrook Industrial Estate, Corby, Northamptonshire



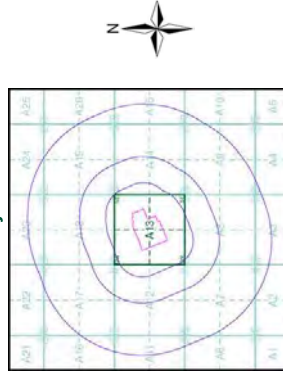


**Urban Soil Chemistry Chromium**

● BGS Urban Soil Chemistry Measured Concentration Values (mg/kg)  
Chromium Concentrations: mg/kg



**Urban Soil Chemistry Chromium - Slice A**

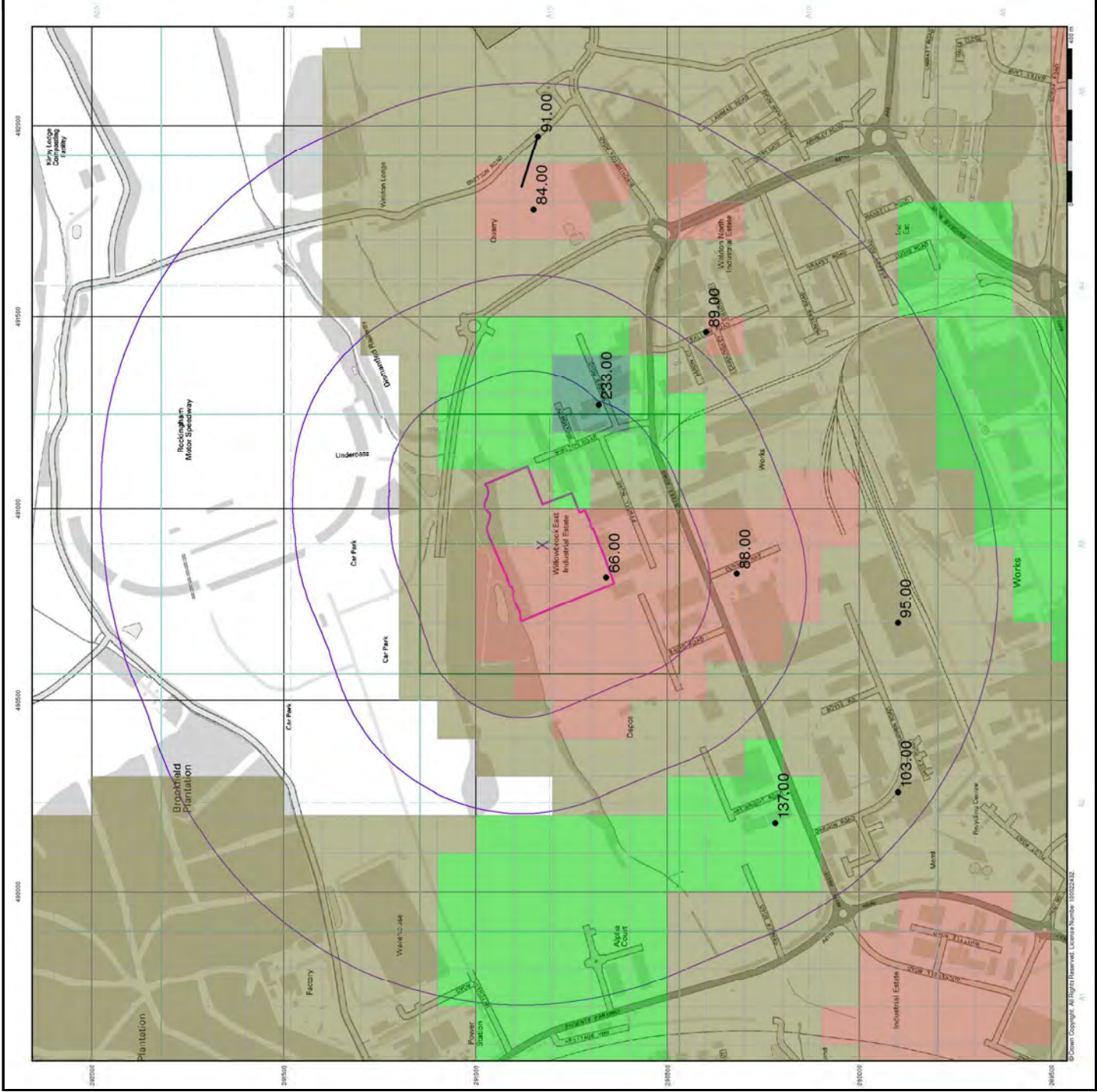


**Order Details**

Order Details: 41611989\_1\_1  
 Customer Ref: 012-1178  
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**Site Details**

Willowbrook Industrial Estate, Corby, Northamptonshire



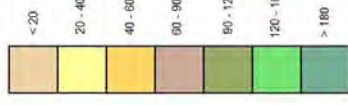
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**General**

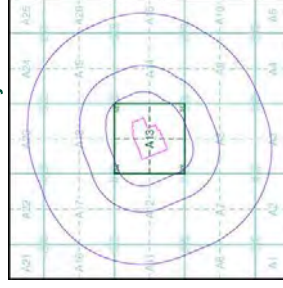
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- Bearing Reference Point

**Estimated Soil Chemistry Chromium**

Chromium Concentrations mg/kg



**Estimated Soil Chemistry Chromium - Slice A**



**Order Details**

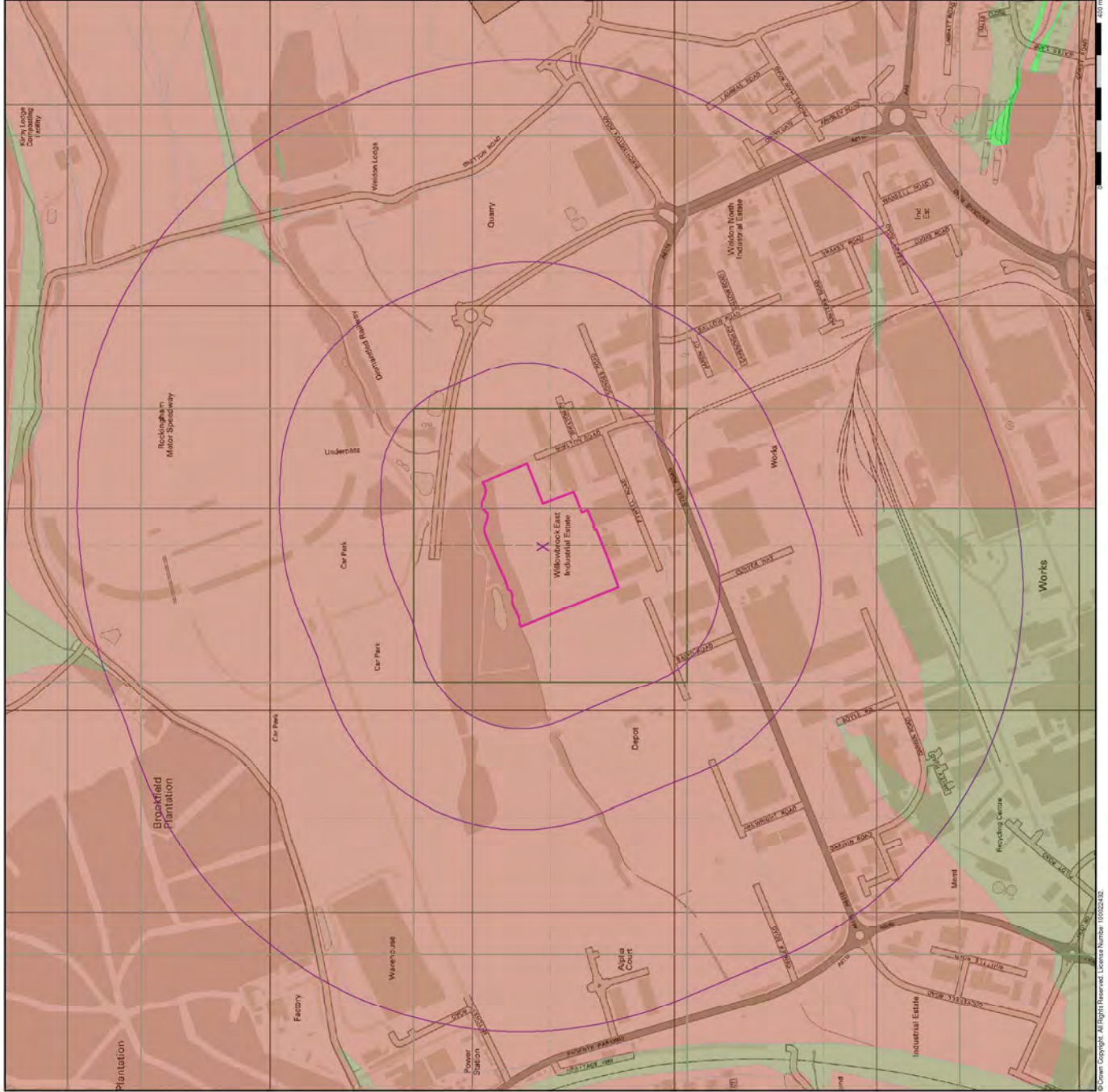
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 Site Area (Ha): 8.06  
 Search buffer (m): 1000

**Site Details**

Willowbrook Industrial Estate, Corby, Northamptonshire



Tel: 0844 844 9952  
 Fax: 0844 844 9951  
 Web: www.entrincheck.co.uk



**General**

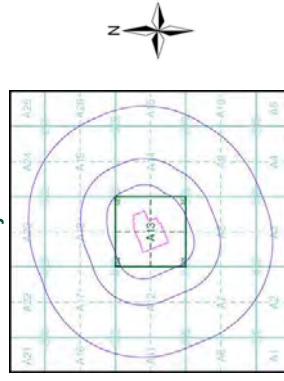
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- Selected Buffer(s)
- ✕ Bearing Reference Point

**Urban Soil Chemistry Lead**

- BGS Urban Soil Chemistry Measured Concentration Values (mg/kg)



**Urban Soil Chemistry Lead - Slice A**

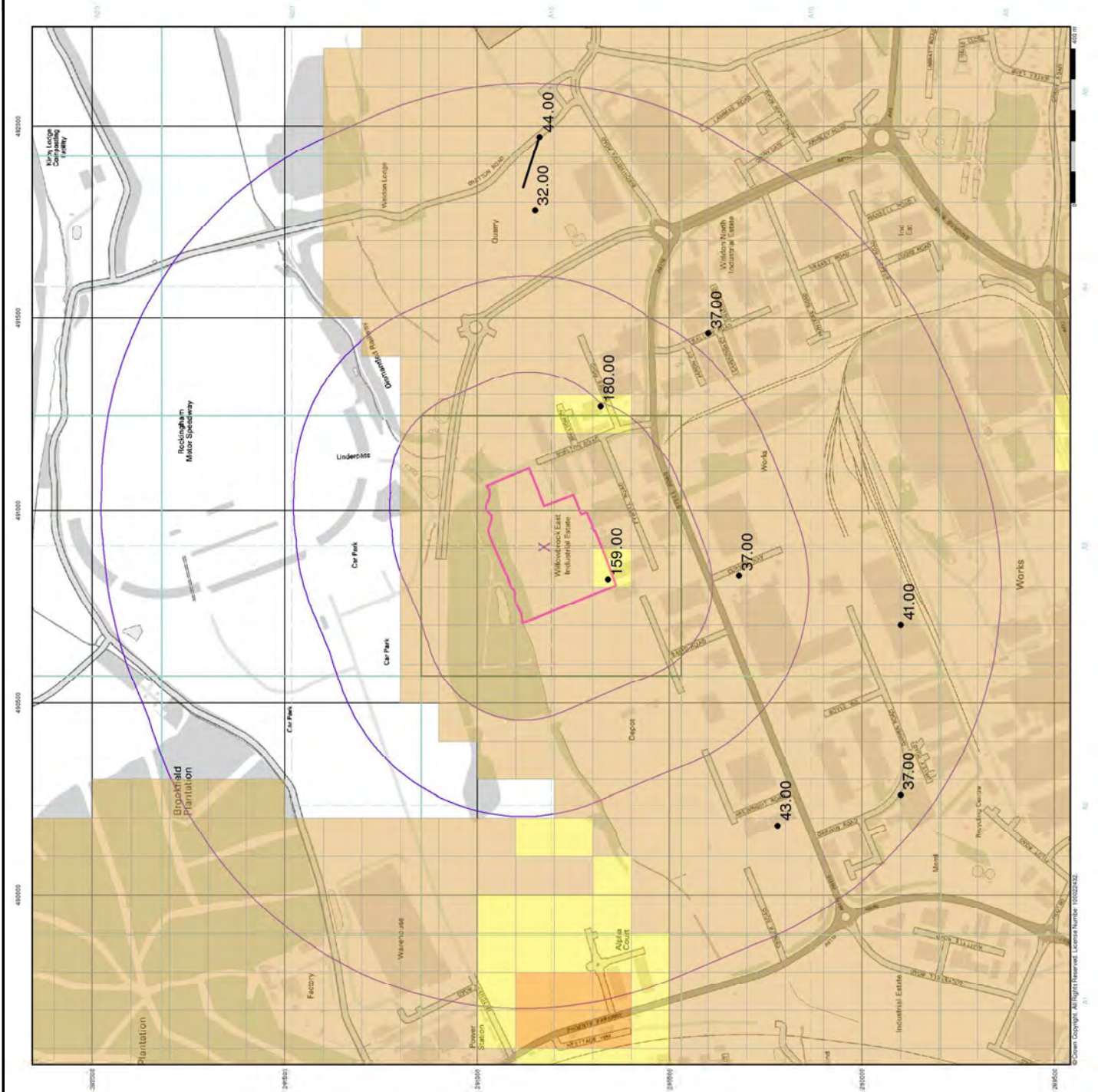


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**Site Details**

Willowbrook Industrial Estate, Corby, Northamptonshire

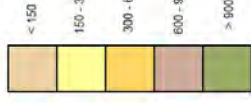


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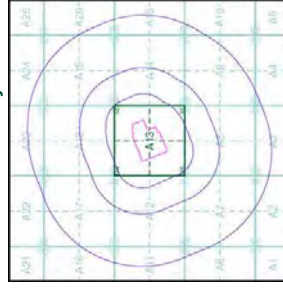
- Specified Site
- Bearing Reference Point

**Estimated Soil Chemistry Lead**

Lead Concentrations mg/kg



**Estimated Soil Chemistry Lead - Slice A**

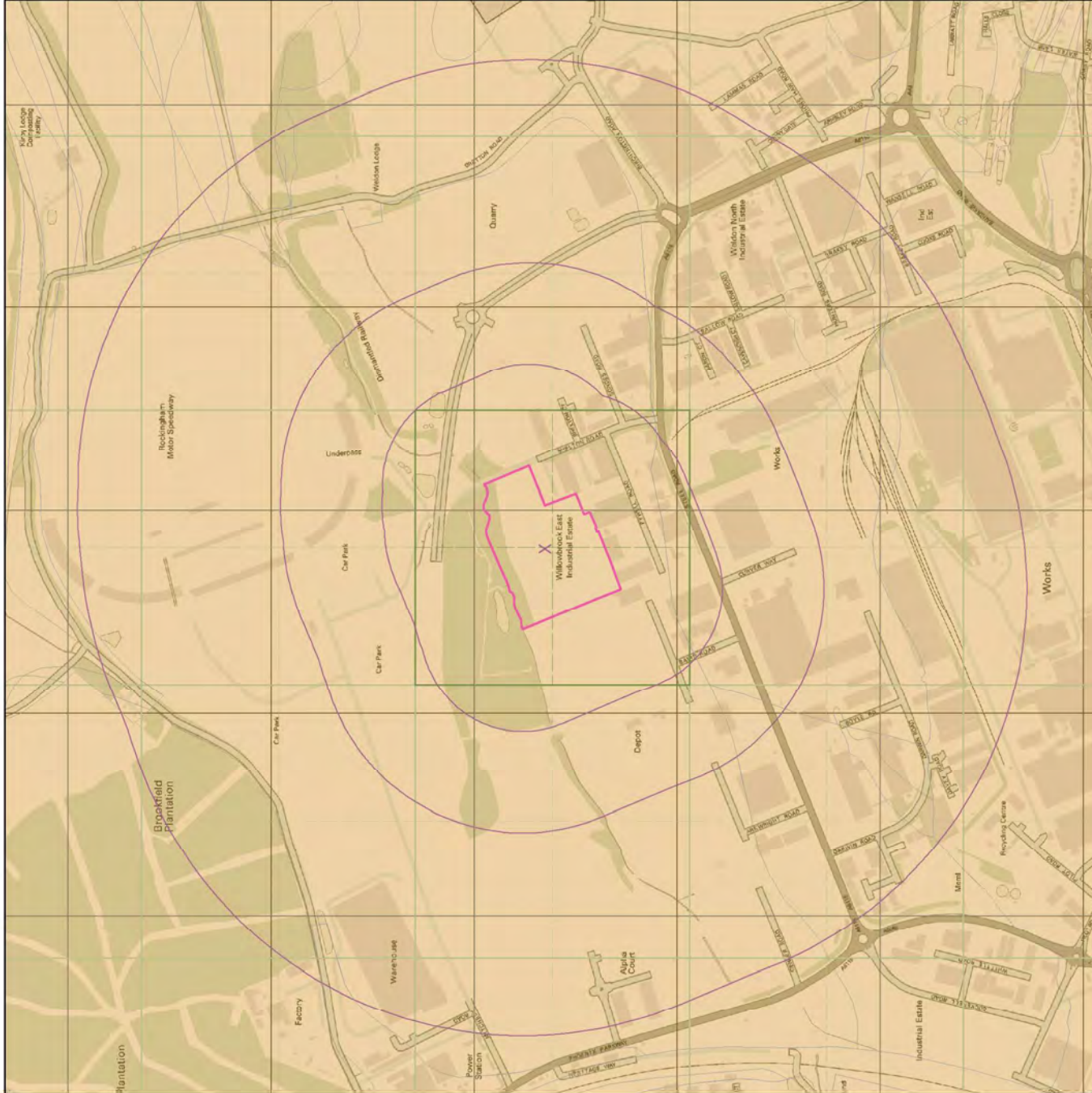


**Order Details**

Order Details: 41611989\_1\_1  
 Customer Ref: 012-1178  
 National Grid Reference: 490910, 290830  
 Slice: A  
 Site Area (Ha): 8.06  
 Search buffer (m): 1000

**Site Details**

Willowbrook Industrial Estate, Corby, Northamptonshire



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**General**

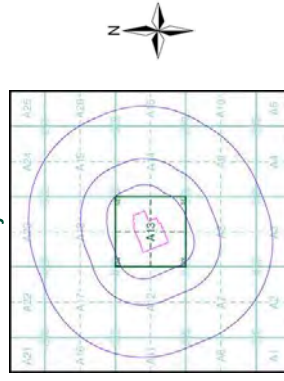
- Smoothened Site
- Specified Buffer(m)
- Bearing Reference Point

**Urban Soil Chemistry Nickel**

- BGS Urban Soil Chemistry Measured Concentration Values (mg/kg)



**Urban Soil Chemistry Nickel - Slice A**

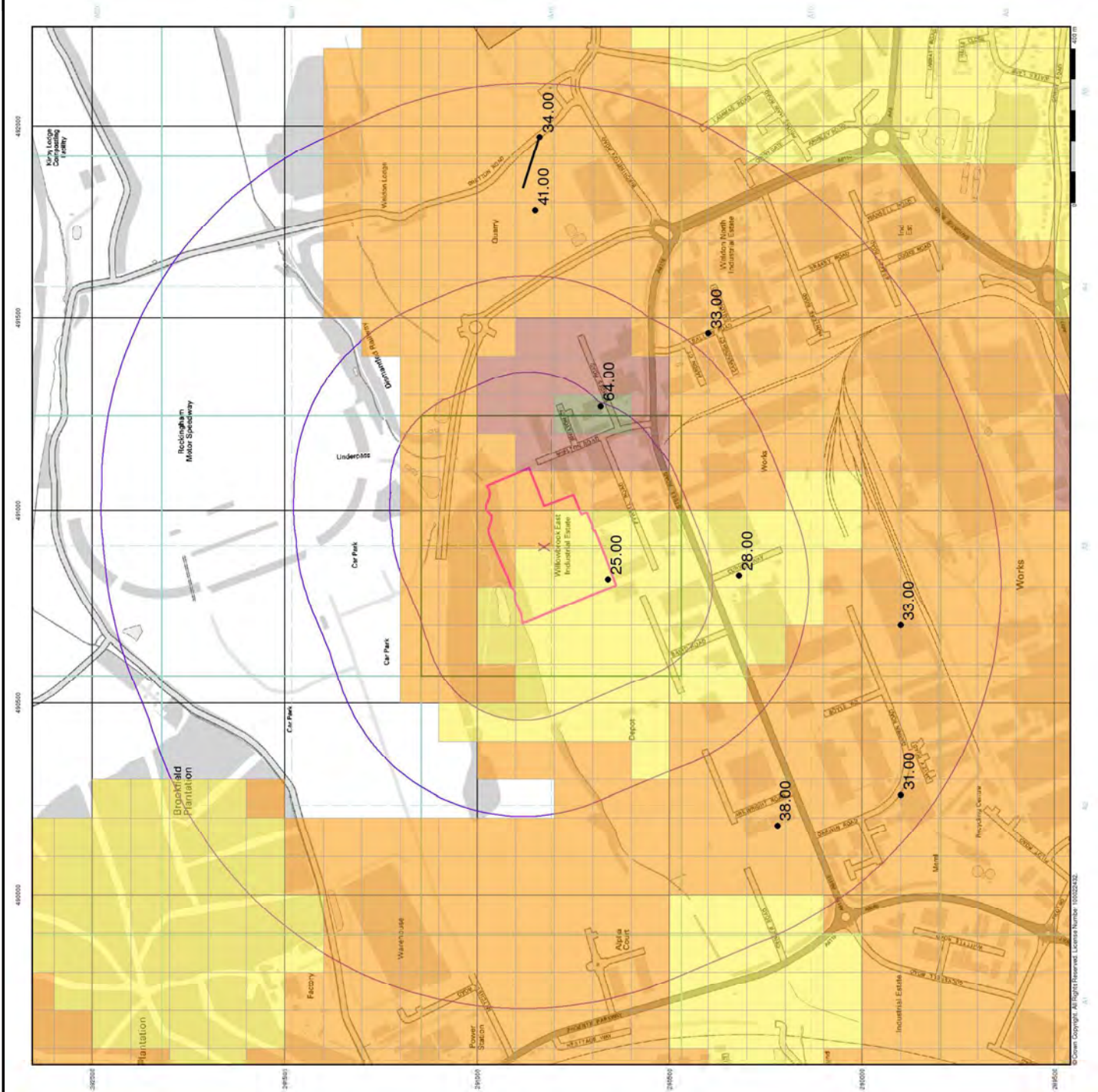


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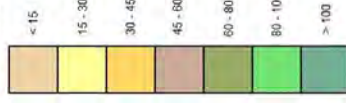
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**Site Details**

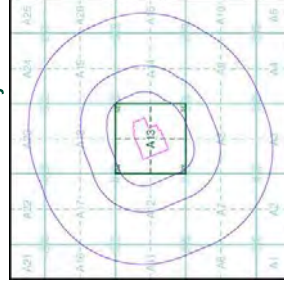
Willowbrook Industrial Estate, Corby, Northamptonshire



Nickel Concentrations mg/kg



**Estimated Soil Chemistry Nickel - Slice A**



**Order Details**

Order Details: 41611989\_1\_1  
 Customer Ref: 012-1178  
 National Grid Reference: 490910, 290830  
 Slice: A  
 Site Area (Ha): 8.06  
 Search buffer (m): 1000

**Site Details**

Willowbrook Industrial Estate, Corby, Northamptonshire

