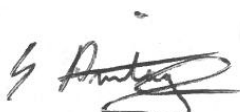




Geo-Environmental

DESK STUDY REPORT
for the development at
LAND SOUTH OF MORTIMERS LANE,
FAIR OAK, HAMPSHIRE
SO50 7HN
on behalf of
BLOOR HOMES SOUTHERN

Report:	DESK STUDY REPORT
Site:	LAND SOUTH OF MORTIMERS LANE, FAIR OAK, HAMPSHIRE, SO50 7HN
Client:	BLOOR HOMES SOUTHERN
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1.0 INTRODUCTION

1.1 General

Geo-Environmental Services Limited (Geo-Environmental) was instructed by Bloor Homes Southern (the Client) to undertake a Phase I desk study into the geotechnical and geo-environmental factors pertaining to the planned redevelopment of Land South of Mortimers Lane, Fair Oak, Hampshire, SO50 7HN herein referred to as 'the site'. The site's location is presented in Figure 1.

1.2 Form of Development

Outline application for up to 245 dwellings (Use Class C3), up to 350sqm multi-functional space, mobility infrastructure (Use Class Sui Generis), with associated open space, landscaping, infrastructure, and vehicular access off Mortimers Lane, Fair Oak; All matters reserved except for vehicular access off Mortimers Lane and pedestrian / cycle connections to the site boundary.

1.3 Objectives

The investigation was to comprise a desk study of geotechnical and geo-environmental factors pertaining to the site, including a review of available historic maps, an examination of other available sources of geo-environmental information and consultation with the Local Planning Authority and/ or Local Authority Contaminated Land Officer.

A Preliminary Risk Assessment (PRA) was to be undertaken as part of the desk study in accordance with guidance set out in Land Contamination Risk Management (LCRM). The objective of the risk assessment was to evaluate plausible pollutant linkages with respect to the proposed development, adjacent land uses, and the wider environment, in the context of planning, immediate liabilities under the Environmental Protection Act 1990, and risks posed to Controlled Waters under the Water Resources Act.

1.4 Standards

Where practicable, the desk study was undertaken in accordance with the following documents and guidance:

- National Planning Policy Framework – December 2023;
- Land Contamination Risk Management (LCRM), updated April 2021;
- Model Procedures for the Management of Contaminated Land, CLR11, DEFRA and Environment Agency 2004 (withdrawn October 2020);
- Environment Agency Guidance on Requirements for Land Contamination Reports, Version 1 dated July 2005;
- BS10175:2011+A2:2017 - Investigation of Potentially Contaminated Sites - Code of Practice, BSI 2017;
- BS5930: 2015+A1:2020 - Code of Practice for Site Investigations, BSI 2020;
- EN ISO 14688 Geotechnical Investigation and Testing Part 1-2002 and Part 2-2004;
- NHBC Standards Chapter 4.1 Land Quality - Managing Ground Conditions;
- NHBC Standards Chapter 4.2 Building Near Trees;
- CIRIA C665 – Assessing risks posed by hazardous ground gases to buildings (2007);
- NHBC 10627-R01(04)- Guidance on evaluation of development proposals on sites where methane and carbon dioxide are present (2007);
- BS8485:2015+A1:2019 Code of practice for the characterisation and remediation from ground gas in affected developments;
- Department of Environment - Industry Profiles (1995 - 1996);

1.5 Conditions

The desk study data obtained for the site is assumed to be factually correct and up to date at the point of their acquisition. No liability is taken for any omissions or inaccuracies in the data acquired. It should also be noted that changes to the desk study data may occur following the production of this report, Geo-Environmental accepts no liability where this subsequently affects the assessment presented herein.

The information collected from the desk study and site walkover has been used to provide an interpretation of the geotechnical and environmental conditions pertaining to the site. The recommendations and opinions expressed in this report are based on the data obtained. Geo-Environmental takes no responsibility for conditions that have either not been revealed in the available records or that occur between or under points of any physical investigation. Whilst every effort has been made to interpret the conditions, such information is only indicative, and liability cannot be accepted for its accuracy.

It must be noted that in particular the concentrations and levels of mobile liquid and gaseous materials are likely to vary with time. The results obtained may therefore only be representative of the conditions at the time of sampling. The absence of asbestos within soil samples analysed does not guarantee the absence of asbestos within buildings, within or bonded to concrete, as discrete burials, or within the soil mass elsewhere within a site. This report must not be taken as, or assumed to imply any guarantee that a site is free of hazardous or potentially contaminative materials.

Information contained in this report is intended for the use of the Client, and Geo-Environmental can take no responsibility for the use of this information by any party for uses other than that described in this report. Geo-Environmental makes no warranty or representation whatsoever expressed or implied with respect to the use of this information by any third party. Geo-Environmental does not indemnify the Client or any third parties against any dispute or claim arising from any finding or other result of this investigation report or any consequential losses.

This report remains the property of Geo-Environmental and the Client has no rights to, or reliance upon this document or supporting documents until such time as payment has been received in full for all invoices for works undertaken in connection with this report.

Assessment criteria or other parameters developed for the evaluation of contamination on this site are based on a number of assumptions regarding exposure and toxicology. Exposure to contaminants and levels of adverse effects may therefore vary. Whilst reasonable care and expertise has been employed in the development of such criteria, no liability is accepted in this respect. Other criteria or guidance on the development of assessment criteria may be published in the future and no liability is accepted in this respect.

2.0 DESK STUDY

The findings of the Phase I desk study are presented in the following section. A copy of the information obtained as part of the desk study is presented in Appendix A. Photographs taken during the site walkover survey are presented in Appendix B.

2.1 Site Description

The site comprised an irregularly shaped parcel of land which extended to c.11.05Ha and was located at NGR 450686, 118681. A detailed site walkover survey was undertaken on 15th December 2022 to help inform the desk study.

The site was accessed from the north via a gateway secured with a steel bar gate located off Mortimers Lane. A grassed farm track ran from this access way into the site providing access to the three fields and adjacent fields outside of the site boundary. The track was laid to grass with track marks and sloped gently upwards at first then sloped away to the south down towards the southern field.

The northern field was roughly square shaped and laid to grass. An access farm track was located to the east of this field. The field sloped gently down to the southwest and was bounded by fencing along all boundaries with mixed hedgerows and trees along the northern, southern and western boundaries.

A small field was located to the south of the northern field, was laid to grass and was mainly flat and level. The field was fenced along all boundaries with a hedgerow and trees located along the northern and western boundaries.

The southern field made up the majority of the site and was laid to grass. The field sloped away to the south with the lowest point of the site along the southern boundary. This low southern portion of the site was noted to be wet under foot during the walkover survey. A drainage ditch was also noted to be present along this southern boundary located outside of the site. Overhead electrical cables were located in the south-eastern portion of the field running in a northeast to southwest direction. The southern field was bounded by fencing on all boundaries along with hedgerows and trees along the eastern, southern and western boundaries.

The site was bounded by residential properties to the west, Mortimers Lane with fields beyond to the north, agricultural fields to the east and commercial uses (storage yard and data centre) and a former landfill site to the south. This former landfill site was observed to have a gas extraction system located approximately 60m south of the southern site boundary.

2.2 Geology

British Geological Survey (BGS) geological mapping indicated the geology underlying the site to comprise the bedrock geology of the London Clay Formation across the majority of the site with an outcrop of the Whitecliff Sand Member across the central western portion of the site. In addition, there is a possibility that limited areas of the site, most likely limited to the current track access to the site, may comprise a mantle of Made Ground overlying these natural strata.

BS5930:2015 defines **Made Ground** as anthropogenic ground in which the material has been placed without engineering control and/or manufactured by man in some way, such as through crushing or washing, or arising from an industrial process. Great variations in material type, thickness and degree of compaction invariably occur and there can be deleterious or harmful matter, as well as potentially methanogenic organic material. In addition,

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on sites which have undergone several phases of historic development it is not uncommon for asbestos to be present at surface and within Made Ground and/or disturbed soils.

Within the south Hampshire and Solent region, the **London Clay Formation** consists predominantly of silty clay, sandy clay and silty sand, sporadic claystones occur and thin but persistent bands of rounded flint pebbles occur at the bases of sedimentary cycles. Lenticular bodies of sand such as the **Whitecliff Sand** and Portsmouth Sand fill channels in the upper parts of the formation.

2.3 Hydrogeology

With reference to Envirocheck data, the underlying bedrock strata were classified as a Secondary 'A' aquifer (Whitecliff Sand) and Unproductive Strata (London Clay).

Secondary 'A' aquifers are defined as, permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers.

Unproductive Strata are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow.

According to information provided from the Environment Agency the site was indicated to be outside of any Source Protection Zone with regard to the protection of groundwater for potable supply.

The environmental dataset identified the following discharge consents to land/soakaway within 500m of the site:

- Hampshire CC, Knowle Lane Recycling Centre – Sewage discharge final/treated effluent, date issued 11/03/1986, no revocation date provided – 125m SW
- Disaster Recovery Facility, Knowle Lane – Trade effluent discharge, date issued 22/06/2001, revocation date 20/12/2012 – 131m SW
- Disaster Recovery Facility, Knowle Lane – Trade effluent discharge, date issued 21/12/2012, revocation date 20/06/2018 – 131m SW
- Disaster Recovery Facility, Knowle Lane – Sewage discharge final/treated effluent, date issued 22/06/2001, no revocation date provided – 131m SW
- Pembers Hill Farm, Mortimers Lane – Sewage discharge final/treated effluent, date issued 20/08/2007, no revocation date provided – 150m NW
- Veolia, Fair Oak Household Waste – Trade effluent discharge, date issued 21/12/2012, no revocation date provided – 244m SW
- Hopkins Recycling Ltd, Fair Oak Household Waste – Trade effluent discharge, date issued 12/09/2000, revocation date 20/12/2012 – 244m SW
- Plot 4 Deer Park Farm, Fair Oak – Trade effluent discharge, date issued 09/11/2006, revocation date 20/12/2012 – 375m SW
- Plot 4 Deer Park Farm, Fair Oak – Trade effluent discharge, date issued 21/12/2012, no revocation date provided – 375m SW

No groundwater abstractions were identified within 500m of the site.

No pollution incidents to groundwater were identified within 500m of the site.

The site was identified as being located within an area with limited potential of groundwater flooding to occur. The Portsmouth Sand Member might have a higher permeability than the surrounding strata of the London Clay

Formation. It is also possible that infiltrating water could become perched within the Portsmouth Sand Member and sandier strata where constrained by less permeable strata, such that a single groundwater body within the London Clay Formation is unlikely.

2.4 Hydrology

With reference to the Envirocheck dataset, the closest surface water feature was located 5m east of the site and comprised a pond. The site walkover survey identified a drainage ditch with water running along the southern boundary of the site. Whilst the Envirocheck data indicated the subject site to be located outside the extent of extreme flooding from rivers, it is presumed that a Flood Risk Assessment may be required in order to inform planning and design strategies for the site.

The following discharge consents to controlled waters were identified within a radius of 500m of the site boundary:

- Parsons Construction, Knowle Lane - Sewage Discharge – Final/Treated Effluent – not water company, issued 11/09/2009, revocation date not supplied – 1m SW
- Pembers Hill Farm, Mortimers Lane – Sewage Discharge – Final/Treated Effluent – not water company, issued 20/08/2007, revocation date not supplied – 137m NW
- Pembers Hill Farm, Mortimers Lane – Sewage Discharge – Final/Treated Effluent – not water company, issued 20/08/2007, revocation date not supplied – 150m NW
- East Horton Farm, Mortimers Lane – Sewage Discharge – Final/Treated Effluent – not water company, issued 20/07/1992, revocation date not supplied – 255m S

The desk study data identified the following surface water abstraction points within 500m of the site:

- East Horton Golf Centre – Water abstraction for spray irrigation, authorised start 01/11/2009, authorised end 31/03/2009 – 255m S
- Berrywood Farm, Bubb Lane – Water abstraction for spray irrigation, no authorisation dates provided – 260m S
- East Horton Golf Centre – Water abstraction for spray irrigation, authorised start 01/11/2021, authorised end 31/03/2022 – 262m S
- East Horton Golf Centre – Water abstraction for spray irrigation, authorised start 01/01/2009, authorised end 31/12/2009 – 305m S
- East Horton Golf Centre – Water abstraction for spray irrigation, authorised start 01/01/1999, authorised end 31/12/1999 – 305m S
- East Horton Golf Centre – Water abstraction for spray irrigation, authorised start 01/03/2014, authorised end 31/10/2014 – 402m S

One pollution incident to controlled waters was identified within a radius of 500m of the site boundary:

- East Horton Golf Club – sewage – septic tank effluent, category 3 minor incident, 19/03/1993 – 205m S

It is considered unlikely that the discharge consents or recorded pollution incidents will have ongoing impacts to the site due to the dates of incidents, types of materials discharged, pollutants released and the distance from the site that the incidents occurred.

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2.5 Radon

The Envirocheck report states that the site lies in an area where <1% of homes are above the Action Level as defined by Public Health England and the BGS. In addition, the BGS assessment states that no radon protective measures are required in the construction of new houses or extensions on the site.

The Envirocheck data utilises the recently updated Radon dataset, effective as of 1st December 2022, and is based on a 25m grid square, in line with the BGS site specific datasets.

2.6 Environmental Data

Searches of other various environmental databases were made as part of the desk study, including air pollution control sites, Part IIA contaminated land, Integrated Pollution Control (IPC) and Integrated Pollution Prevention and Control (IPPC) sites, registered radioactive substances, COMAH sites, explosives sites, Notification of Installations Handling Hazardous Substances (NIHHS) sites, planning permissions for sites involving hazardous substances and fuel station registers. Additional detail is referenced in Appendix A.

The Envirocheck dataset identified the following Integrated Pollution Prevention and Control permitted sites within 500m of the site boundary:

Name	Activity Description	Dates	Distance and Direction
Sita Southern, Fair Oak Landfill	Waste Landfilling – greater than 10 t/d with capacity greater than 25,000t (excluding inert waste)	Effective – 15/07/2002 Superseded by variation	98m South
Sita Southern, Fair Oak Landfill	Waste Landfilling – greater than 10 t/d with capacity greater than 25,000t (excluding inert waste)	Effective – 30/01/2006 Superseded by variation	98m South
Sita Southern, Fair Oak Landfill	Waste Landfilling – greater than 10 t/d with capacity greater than 25,000t (excluding inert waste)	Effective – 02/04/2008 Superseded by variation	98m South
Sita Southern, Fair Oak Landfill	Waste Landfilling – greater than 10 t/d with capacity greater than 25,000t (excluding inert waste)	Effective – 24/05/2013 Superseded by variation	98m South
Sita Southern, Fair Oak Landfill	Waste Landfilling – greater than 10 t/d with capacity greater than 25,000t (excluding inert waste)	Effective – 23/04/2014 Superseded by variation	98m South
Sita Southern, Fair Oak Landfill	Waste Landfilling – greater than 10 t/d with capacity greater than 25,000t (excluding inert waste)	Effective – 28/05/2015 Superseded by variation	98m South
Sita Southern, Fair Oak Landfill	Waste Landfilling – greater than 10 t/d with capacity greater than 25,000t (excluding inert waste)	Effective – 30/07/2015 Superseded by variation	98m South

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Name	Activity Description	Dates	Distance and Direction
Suez Recycling & Recovery Southern, Fair Oak Landfill	Waste Landfilling – greater than 10 t/d with capacity greater than 25,000t (excluding inert waste)	Effective – 30/06/2016 Superseded by variation	148m South
Suez Recycling & Recovery Southern, Fair Oak Landfill	Waste Landfilling – greater than 10 t/d with capacity greater than 25,000t (excluding inert waste)	Effective – 02/02/2018 Superseded by variation	148m South
Suez Recycling & Recovery Southern, Fair Oak Landfill	Waste Landfilling – greater than 10 t/d with capacity greater than 25,000t (excluding inert waste)	Effective – 26/05/2021 Active	148m South
Sita Southern, Fair Oak Landfill	Waste Landfilling – greater than 10 t/d with capacity greater than 25,000t (excluding inert waste)	Effective – 15/07/2002 Superseded by variation	163m Southwest
Sita Southern, Fair Oak Landfill	Waste Landfilling – greater than 10 t/d with capacity greater than 25,000t (excluding inert waste)	Effective – 30/01/2006 Superseded by variation	163m Southwest
Sita Southern, Fair Oak Landfill	Waste Landfilling – greater than 10 t/d with capacity greater than 25,000t (excluding inert waste)	Effective 02/04/2008 Active	202m Northeast

Table 2.1 Summary of Integrated Pollution Prevention and Control permitted sites

One Local Authority Pollution Prevention and Controls permitted site was identified within 500m of the site:

- Tarmac Topmix Ltd, Fair Oak Sandpit – Blending, packing, loading and use of bulk cement, effective 21/01/1993, authorisation revoked – 361m southwest.

The desk study identified six Contemporary Trade Directory entries within 250m of the site:

Name	Classification	Distance	Direction	Status
Parsons Construction Services	Road Haulage Services	37	SW	Inactive
Drive Personnel	Road Haulage Services	53	W	Active
The Recycling Centre	Recycling Services	178	SW	Active
South Coast Building Group	Mechanical Engineers	225	SW	Active
Topmix Mortars Ltd	Concrete & Mortar Ready Mixed	228	NE	Active
S Grundon Ltd	Sand, Gravel & Other Aggregates	238	NE	Inactive

Table 2.2 Summary of contemporary trades

Considering the types of trades identified and the distances from the site, it is not considered likely that these trades will have impacted on the site.

2.7 Soil Chemistry

Data obtained as part of the desk study provides details on the estimated soil chemistry for the natural soils in the vicinity of the site. The estimated soil quality on the subject site is presented Table 2.3.

Contaminant	Estimated Concentration
Arsenic	<15 mg/kg
Cadmium	<1.8 mg/kg
Chromium	60-90 mg/kg
Lead	<100mg/kg
Nickel	15-30 mg/kg

Table 2.3 Estimated soil chemical concentrations on site

The natural background concentrations were below respective published Suitable for Use Levels, Generic Assessment Criteria and Category 4 Screening Levels for the protection of human health under a residential land use (without home grown produce), i.e. the most conservative end use.

However, these values are not necessarily representative of the site's soil chemistry and do not take account of the potential presence or condition of any Made Ground and do not account for a site's historic or current use. Furthermore, some screening criteria are dependent on pH and soil organic matter content. Therefore, concentrations of specific determinants and the utilised S4UL/GAC/C4SL cannot be determined without site specific investigation and analysis.

2.8 Sensitive Land Uses

A search was made of environmentally sensitive areas including local and national nature reserves, areas of outstanding natural beauty (AONBs), Ramsar sites, sites of special scientific interest (SSSIs), conservation areas, special protection areas and biosphere reserves.

No environmentally sensitive areas were identified within 500m of the site boundary, with the exception of ancient woodland, the closest of which was identified 375m south of the site.

According to the Envirocheck data set, the site lies within a eutrophic water Nitrate Vulnerable Zone (NVZ) as defined by the Department for Environment, Food and Rural Affairs (DEFRA). Nitrate Vulnerable Zones are designated areas of land draining into waters polluted by nitrates from agriculture.

2.9 Geotechnical Data

The site was located within an area considered by the Coal Authority that might not be affected by coal mining activity.

National databases for a number of different geological hazards have been compiled by the BGS, and a summary of the hazard data pertaining to the site itself is presented in Table 2.4.

Hazard	Designation
Non-coal mining	No Hazard
Collapsible ground	Very Low
Compressible ground	No Hazard
Ground dissolution	No Hazard

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Hazard	Designation
Landslide	Very Low
Running sand	Very Low
Shrinking and Swelling clay	Low
BGS Recorded Mineral Sites with 500m	108-179m SW (3 entries) – Knowlehill Copse Sand Pit opencast for sand, ceased; 326m S – Fair Oak Sand opencast for sand, ceased; 485m S – Greenwood Brick Field, opencast for common clay and shale, ceased.

Table 2.4 Summary of BGS geological hazards

2.10 Landfill and Waste Management Facilities

A search of BGS recorded landfill sites, IPC registered waste sites, licensed waste management facilities, Local Authority recorded landfill sites, other registered landfill sites, waste transfer stations and other waste treatment or disposal sites was undertaken as part of the desk study. Such sites may form an artificial source of ground gases, such as carbon dioxide and methane, where wastes are buried or disposed of to landfill.

Four historic landfill sites, six licensed waste management facilities and two BGS recorded landfill sites were identified within 500m of the site, details of which are provided within Table 2.5 below.

Site Details	Specified Waste	Operation Dates	Status	Distance from Site
Historic Landfills				
M J Passingham Ltd, Knowle Lane	Household, commercial, inert, industrial and liquid sludge wastes	First Input – 6 th Jan 1972	Not Provided	7m SW
Winchester Rural District Council, Knowlehill Lane	Household, commercial, inert, industrial and liquid sludge wastes	First Input – 26 th Jul 1966	Not Provided	107m W
Sunny Bank Tipping Ltd, Hardings Copse and Scotland Copse	Commercial, industrial and inert wastes	No dates supplied	Not Provided	184m W
Sunny Bank Tipping Ltd, Mortimers Lane	Household, commercial, industrial and inert wastes	First Input – 11 th Feb 1977	Not Provided	395m SW
Licensed Waste Management Facilities				
Sita Southern Ltd, Fair Oak Landfill Site, Off Mortimers Lane	Other landfill sites taking special wastes Large (Equal to or greater than 75,000 tonnes per year)	Issued – 2 nd May 2001	Inactive	51m SW
Suez Recycling & Recovery Southern Ltd, Fair Oak Landfill Site Epr/Bk1244ia	Waste landfilling >10 T/D with capacity >25,000T excluding inert waste	Issued – 26 th May 2021	Effective	55m SW
Parsons Construction Ltd, Knowle Lane Ind Est	Use of waste in a deposit for recovery op	Issued – 27 th Jan 2014 Surrendered – 19 th Feb 2018	Surrendered	77m SW

Site Details	Specified Waste	Operation Dates	Status	Distance from Site
Suez Recycling & Recovery Southern Ltd, Fair Oak Landfill Site	Landfill Gas Engine (<3 mW)	Issued – 28 th May 2015 Last Modified – 2 nd Feb 2018	To PPC	148m S
Veolia E S Hampshire Ltd, Fair Oak HWRC, Knowle Lane	Household Waste Amenity Sites	Issued – 1 st Jul 1993 Last Modified – 11 th Mar 2015	Transferred	177m SW
R&R Contractors, 79 Mortimers Lane	Household, Commercial and Industrial Transfer Station	Issued – 16 th Jul 1994	Issued	179m W
Sita Southern Ltd, Off Mortimers Lane	Other landfill sites taking special waste	Issued – 2 nd May 2001	To PPC	326m S
BGS Recorded Landfill Sites				
Knowle Lane	No threat to ground or surface water	Unknown	Unknown	70m SW
Knowle Hill Lane	No threat to ground or surface water	Unknown	Unknown	107m W

Table 2.5 Summary of landfill and waste management facilities within 500m of the site

Due to the way in which landfill and waste management facilities are recorded and the fact that different authorities have slightly different names and reference numbers for these types of sites, it is believed that some of the above identified sites listed may refer to the same parcel of land, as such, and for ease of reference it is understood that the following four landfill/ waste management facilities are located within 500m of the site:

- Fair Oak Landfill – c.55m southwest;
- Knowle Lane – c.77m southwest;
- Knowle Hill Lane – c. 107m west;
- Hardings and Scotland Copse – 184m west.

Fair Oak Landfill is a closed landfill site with active gas and leachate management systems in place. Knowle Lane has been partially redeveloped with a data recovery centre and other commercial uses. Knowle Hill Lane has also been partially redeveloped with an industrial estate located in the south of the landfill area. Hardings and Scotland Copse is generally undeveloped and comprises public open space and woodland.

Below is a plan (Plan 1) which shows the approximate location of these identified landfill sites in relation to the subject site, based on a review of the Environment Agency and Local Authority records provided as part of the Landmark dataset. The plan also includes the former landfill sites Michaels Way and Sunny Bank Landfills although these sites are in excess of 500m from the site they are located within the same underlying permeable geology of the Whitecliff Sand. No liabilities are taken for any inaccuracies in respect to these boundaries where plotted in relation to the subject site:



Plan 1 – Approximate locations of historical and authorised landfill sites in proximity to the site boundary

The information below pertaining to the current permit for Fair Oak Landfill Site was obtained by undertaking a Freedom of Information request with the Environment Agency and is third party data. As such, this data is assumed to be factually correct and Geo-Environmental accepts no responsibility for any errors or omissions in the data presented and reviewed.

SUEZ Recycling and Recovery Southern Ltd – EPR/BK1244IA/V010 (Fair Oak Landfill)

This site is permitted under the Environmental Permitting Regulations 2010 and the Environment Agency is responsible for their regulation. Fair Oak Landfill site is a closed landfill site and is permitted for the recovery, collection, treatment and flaring of landfill gases, the collection, recirculation, storage and treatment of landfill leachate, the utilisation of landfill gas for energy recovery along with the storage of fuels for the operation of plant. The gas engine, flare and methane stripping plant are located within a compound area c.55m south of the subject site with the actual landfill located beyond c. 95m south of the site. Filling has ceased across the landfill and the fill material is capped with a clay capping layer. There is active landfill gas and leachate management across the landfill. The landfill gas management includes the collection of landfill gases along with the control of the migration of landfill gases. The collected landfill gases are used to produce energy, if collected gas cannot be used to produce energy appropriate measures to flare or treat the landfill gas are utilised. A new methane stripping plant has been installed (2021) to remove dissolved methane from leachate arising from the landfill so that it can be discharged into the sewer in line with trade effluent consent limits. Gas and groundwater monitoring boreholes are located external to the landfill across the site and are monitored routinely for the presence of landfill gases and contaminants associated with landfill leachate and the results are reported to the Environment Agency in-line with the Environmental Permit.

2.11 Historic Mapping

Historic maps dating back to 1871 were obtained as part of the desk study. A summary of the apparent key features observed on the map extracts both on the site and within the local area is presented within Table 2.6.

Date	On-site	Off-site
1871	Mapping indicated that the site comprised agricultural fields with hedgerow boundaries.	The majority of the surrounding land was shown to be agricultural fields and woodland. Mortimers Farm was shown c.100m east of the site and East Horton Farm c.200m south of the site.
1885	No significant changes identified.	A sand pit was shown approximately 110m south of the site.
1896	No significant changes identified.	The sand pit to the south of the site was shown to have been extended such that it was located c.95m south of the site. A further sand pit was shown c.110m southwest of the site on the west side of Knowle Lane.
1897-1898	No significant changes identified.	An old sand pit was located approximately 500m southeast of the site with a sand pit c.750m south east of the site.
1909	No significant changes identified.	A further sand pit was shown to be located c.190m south of the site.
1910-1911	No significant changes identified.	A sand pit was shown approximately 1000m west of the site.
1939	No significant changes identified.	No significant changes identified.
1941	No significant changes identified.	No significant changes identified.
1947-1948 (aerial)	No significant changes identified.	The sand pit located c.110m southwest of the site was shown to have expanded significantly to the north and west. A further sand pit was shown c.600m west of the site.
1961-1963	No significant changes identified.	The sand pit located 600m to the west of the site was shown to have significantly expanded to the west. In the general area surrounding the site residential development was shown to be present to the west of the site.
1963	No significant changes identified.	A spoil heap was shown immediately adjacent to the sand pit approximately 110m southwest of the site. A piggery was shown c.95m west of the site with a further sand pit located c.100m west of the site.
1968	No significant changes identified.	The sand pits located to the west of the site were shown to have expanded and a further sand pit was shown c.500 west of the site. In the wider general area residential development was shown to have taken place to the west and southwest of the site.
1974	No significant changes identified.	No significant changes identified.
1982-1987	No significant changes identified.	The sand pits located to the west of the site were still shown to be present but were labelled as workings.

Date	On-site	Off-site
1984	Insufficient map coverage.	Insufficient map coverage.
1986	Insufficient map coverage.	Insufficient map coverage.
1988	Mapping was incomplete. No significant changes identified.	Mapping was incomplete. The spoil heap to the south west of the site was no longer shown. A public amenity point was shown to be present c.120m southwest of the site.
1990	Insufficient map coverage.	Mapping was incomplete. No significant changes identified.
1993	No significant changes identified.	The sand pit located c.95m south of the site was shown to have significantly expanded to the south. The sand pits to the southwest of the site were no longer shown to be present.
1996	Insufficient map coverage.	Insufficient map coverage.
1999 (aerial)	No significant changes identified.	The sand pit to the south was shown to have expanded to the south and east.
2000	No significant changes identified.	No significant changes identified.
2006	No significant changes identified.	An industrial estate was shown to be present c.250m west of the site located on one of the former sand pits.
2022	No significant changes identified.	Residential development was present immediately to the west of the site with further residential development to the northwest of the site. The sand pit to the south of the site was shown to have been infilled.

Table 2.6 Summary of historic map extracts

Historic mapping showed the site to have been open fields with hedgerow boundaries throughout the mapping period.

A number of sand pits were identified between 95m and 1000m from the site boundary generally located to the south and west of the site. These sand pits were shown to increase in size over the mapping period and subsequently become infilled with landfill wastes, as demonstrated by the historic landfill records in Section 2.10. A number of these sand pits/landfills have since been redeveloped as housing, and industrial uses.

2.12 Asbestos

Whilst no clear evidence of asbestos containing materials was observed during the site walkover visit, in line with current best practice, asbestos and ACM should be assumed to be present until proven otherwise, this includes the consideration of the potential for asbestos to be present within the shallow soils on the site as well as beneath areas of hardstanding.

The absence of asbestos recorded as part of the site walkover is not a guarantee of the absence of asbestos elsewhere on a site.

2.13 Previous Ground Investigations

Geo-Environmental was not aware of any previous intrusive investigations that had been undertaken on the subject site itself. However, Geo-Environmental is aware of the Fair Oak Landfill Study that was carried out in the

vicinity of the site to investigate the former landfill sites within the Fair Oak area by Eastleigh Borough Council. A detailed review of this study is provided within the section below.

2.14 Fair Oak Landfill Study

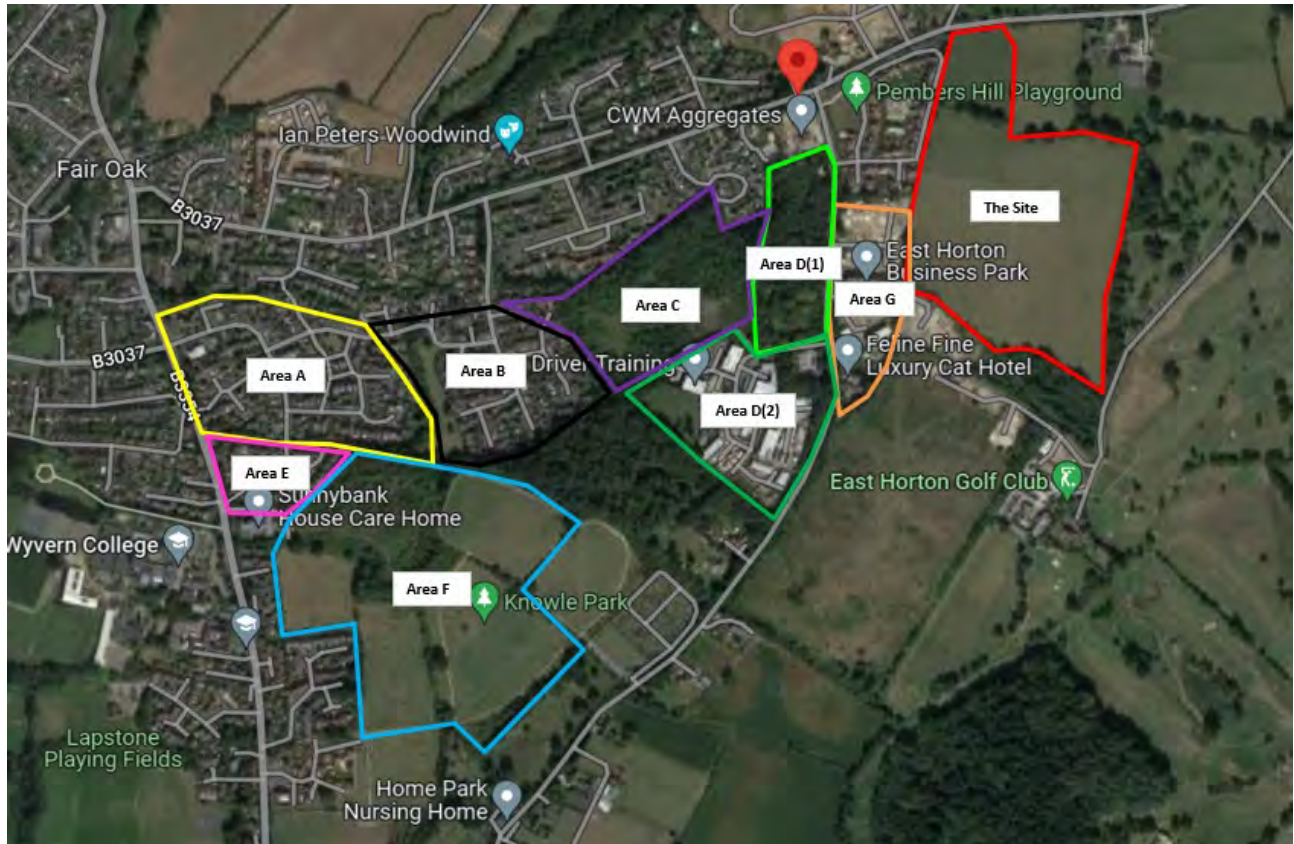
Eastleigh Borough Council commissioned a study of the former landfill sites within the Fair Oak area under their obligations under Part 2A of the Environmental Protection Act. This study was presented within Fair Oak Landfill Study – Interpretative Report, ref CG/5515, dated April 2012 by Card Geotechnics Ltd. A review of this report in relation to the subject site is presented below.

The entire study area covered an area located to the east and south of Fair Oak village extending approximately 1km east to west and 500m north to south. Historically the study area had been subject to sand quarrying, exploiting the local geological resource. The resultant excavations having been infilled with domestic and other wastes.

For the purpose of the study the study area was divided into several land parcel; Area A, B, C, D(1), D(2), E, F, G and S:

- Area A comprised a residential zone located around Stubbington Way, Noyce Drive and Reynolds Way at the western end of the study area;
- Area B was situated in a residential area around Michaels Way, The Beechs and Mears Road. It was positioned over the historic Michaels Way quarry and landfill;
- Area C comprised the former quarry and landfill referred to as Hardings and Scotland Copse;
- Area D(1) was located off Knowle Lane and comprised an area of public open space over the eastern edge of the historic landfill Knowle Hill Lane landfill;
- Area D(2) was located on land adjacent to the southeast of the former Knowle Hill Lane landfill. The area was used for industrial/commercial purposes;
- Area E comprised a residential area located at the southern end of Stubbington Drive;
- Area F comprised a former historic landfill referred to as Sunnybank Landfill. The area has historically been subject to mineral extraction and waste disposal. A gas extractor system operates to monitor and manage landfill gas issued in the former fill;
- Area G was made up of three sections, the first section was a development site (at the time of the study) that had undergone significant groundworks off Knowle Lane. The second section was occupied by a telecoms company and the final section of Area G included two houses and a small builders' yard located to the south of the telecoms site;
- Area S was located outside of the study area to the west and was designated as a potentially sensitive location.

Areas C, D(1), D(2) and G are the closest and most relevant to the subject site. Below is a diagram that shows the approximate location of the study areas in relation to the subject site.



Plan 2 – Approximate location of the study areas in proximity to the site boundary

Historical Development

Historical information indicated that much of the land within the study area prior to 1946 was used for agriculture. Whilst there were some small scale excavations noted in Area C, widespread quarrying of local resources did not occur before 1946. From this time until the 1950s several small sand and gravel quarries developed in the study area, the most prominent of which was in Area B. Two smaller quarries were also identified in Area D. By 1959 a small quarry had opened in the southeast corner of Area A.

Development of the existing quarries continued into the 1960s at which time it was noted that Area B (Michaels Way landfill) first received waste. It was indicated that waste bales were laid in irregular layers with no obvious containment or engineering. It was believed that the waste deposited was clay and gravel, brick and wood etc. However, with no waste licenses being available there is potential that other wastes may have been deposited. The quarries in Area D remained active and well developed with faces having extended to the boundary with Knowle Lane.

By 1970 the study area was at its maximum state of development in respect of local extraction. The Area B quarry was almost completely filled with waste and it was observed that there was no visible evidence of significant capping.

In Area A, active quarrying was noted to have occurred between 1959 and 1971 approximately. It was considered that Areas A and B should be treated as a single landfill system because there were potentially few internal barriers to leachate and gas migration.

In 1972 some waste storage was noted in Area A from aerial photography. Further quarrying and localised waste piles were also noted in Area E from 1971. Originally a natural slope rose from the B3354 towards Knowle Hill which was exploited by quarrying in Area E that advanced into the slope in a number of successive cuts. It was not clear whether these voids were filled with waste or made good by levelling. It was indicated that inert material was used to form a slope between Areas E and F when the latter was restored by landscaping.

Area C was quarried from around the 1960s to the 1970s. The excavation was noted to be deepest towards the east but was not exactly uniform. The west area of the site was already landfilled. Area C was then rapidly landfilled in the 1970s under license. Permission was granted for disposal of solid, non-toxic and inert materials. Liquid and biodegradable wastes were excluded, and tipping was not allowed to exceed 0.5m over the quarry sides. It is understood that the waste capacity of this facility was 350,000 cubic yards (approximately 270,000m³). Public concerns were later raised about the landfill's tipping process, therefore permits were varied so that levels could be brought up if the landfill contractor constructed an impermeable clay barrier to protect the stream to the north. It is not known whether this was constructed as no records to this effect were available. When waste licenses were changed this facility could accept domestic refuse. It was estimated that domestic waste may have accounted for up to 10% of deposits and the overall waste pile was potentially up to 20m thick. From 1980 in Area C (Harding and Scotland Copse) the final waste tipping phase occurred.

During the 1970s in Area D the two quarries were infilled and levelled (Knowle Hill Landfill). Winchester District Council recorded the landfill operation in Area D(1) as ceasing around 1972-73. Records also suggest that quarrying product was stored in Area D(2) and excavations in this area were not as deep. Small volumes of waste may have been tipped in Area D(2) most likely as a thin veneer. However, planning permission was granted for sand abstraction and the subsequent filling with waste refuse for Area D(2) so quantities of waste anticipated in D(2) are ambiguous.

Around the 1970s active quarrying was noted at the northern perimeter of Area F and stored material was noted in Area G (it is unclear whether this was waste or sand). A small sandpit was indicated to be present in 1971 to the south of Area G that was potentially infilled with waste. To the north of Area G a piggery was present.

Between 1975 and 1976 a planning application was submitted to extend the Sunny Bank quarry into Area F and to restore the area by landfilling with mixed wastes including amenity waste, construction and demolition waste, selected industrial waste and some degradable materials such as paper, cardboard, sawdust/bark and waste wood/timber. The Sunny Bank site was expected to have a maximum depth of 11.4m and the volume of landfill was estimated at 500,000m³. The site was recorded to have an active gas extraction system and flare. Overtipping has been confirmed to have occurred along the northern boundary of Sunny Bank landfill and anecdotal evidence suggested that there may have been overtipping to other boundaries also.

Areas A and B were also backfilled and partially levelled with Topsoil in the late 1970s, to allow for the construction of housing which was later developed between 1980 and 1995.

From 1980 to 1995 initial development of the Knowle Lane industrial estate was shown to have commenced over the southern part of Area D. In Area F landfilling continued until 1989 when the waste tipping operation ceased. In 1990 Topsoil was spread over the area to restore the original site contours. Aerial photography from 1985 and 1986 indicated that the surface level of Area G was restored and covered in part by scrub vegetation.

With regards to the Areas deemed closest to the subject site a brief summary of their history is as follows:

Area C – small scale excavation noted in 1946, quarried from 1960s to 1970s, rapidly landfilled in the 1970s with permission for solid, non-toxic and inert materials, permit granted for the installation of an impermeable clay barrier to the adjacent stream, but it is not known whether this was installed. License was altered and domestic

wastes were permitted. From 1980 final waste tipping occurred, area was subsequently covered over with Topsoil. Area D(1) and D(2) – two small quarries identified in 1950s, in the 1960s quarries remained active and well developed, quarries infilled and levelled in 1970s. Landfilling in Area D(1) ceased around 1972-1973. Storage of quarried product in 1970s, smaller volumes of wastes tipped in Area D(2). From 1980 to 1995 initial development of industrial estate.

Area G – 1970s stored material (sand or waste) on Area G, 1971 small area south of Area G excavated and potentially infilled with waste, piggery to north of Area G, 1985-1986 Area G restored and covered by scrub vegetation.

The geology of the study area is complex and varied but broadly consists of the Wittering Formation of the Bracklesham Beds comprising interlaminated clays and silty sands over the Whitecliff Sand Formation or the London Clay Formation.

The intrusive works for the study comprised the drilling of 40No. cable percussive boreholes spread across the entire study area. Soil samples were collected from all of the boreholes from soils within the Made Ground/fill and natural strata. Selected samples were chosen for chemical testing. In addition, 15 samples were tested for leachate analysis from across the study area.

Monitoring wells were installed within selected boreholes across the study area with gas monitoring completed over 24 rounds at regular intervals from December 2010 to November 2011. This monitoring was interspersed with periodic groundwater, surface water and trace gas sampling events. Infiltration testing was also undertaken within boreholes across the study area in order to gain information on the permeability of soils underlying the site.

The study discusses the soil testing, water testing and gas monitoring results for each of the nine areas separately. Therefore, only the areas deemed relevant to the subject site area summarised below, Areas C, D(1), D(2) and G.

Area C

Nine boreholes were located within Area C and drilled to a maximum depth of 22m bgl. Landfill materials including domestic wastes were encountered within a number of the boreholes to a maximum depth of 22m bgl. The deepest fill was encountered in the southern end of Area C. Visual and olfactory evidence of hydrocarbons was noted within the Made Ground.

Groundwater was reported to be shallower within the monitoring wells installed in the north of Area C where the topography slopes downward towards the stream. Groundwater depths ranged between 0.80m and 14.74m bgl. Groundwater was not considered to be in hydraulic continuity with the stream due to depths of groundwater being greater than the depth of the stream.

The majority of contaminants tested within the sampled soils were below the assessment criteria. For those contaminants that were above the assessment criteria, statistical testing demonstrated that Area C was unlikely to meet the legal definition of contaminated land. Concentration of VOCs and SVOCs recorded were not considered to be significant. Asbestos was not recorded as being present.

Leachate testing found that the results were either below corresponding assessment criteria or not indicative of gross contamination. Groundwater testing identified elevated concentrations of heavy metals, Phenol, Benzene and Ammoniacal Nitrogen. The results were consistent with domestic waste landfill results and the elevated concentrations were identified within the landfill material encountered. As the site was not located in a groundwater protection zone and the London Clay confined the underlying Principal Aquifer, the risk to

groundwater resources was considered to be minimal. Local groundwater flow direction was considered to be in a southwesterly direction, towards Areas A and B. It was also considered that the stream to the north of Area C was unlikely to be in hydraulic continuity with groundwater.

Gas monitoring was completed on 24 occasions, and the maximum flow rate recorded was 7.7l/hr, however the majority of boreholes recorded flow rates of <2.5l/hr. Carbon dioxide was recorded up to a maximum of 29.9% and the recorded volumes were found to vary significantly. This variation appeared to be in line with groundwater level changes within the landfill material. The maximum methane concentration recorded was 74.3% and was recorded within the deepest portion of the landfill material. Generally, the concentrations of methane were consistently high particularly in boreholes where waste was thickest. The borehole located in the north of Area C to the north of the landfill showed negligible methane suggesting no northern migration of gas from the landfill. Bulk gas sampling was comparable to the monitoring undertaken.

Preliminary screening of gas data indicated there was a moderate risk from carbon dioxide and a moderate to high risk from methane. The worst affected boreholes were located moderately close to the residential properties on Bradshaw Close.

In general, the study identified little evidence of migration of contaminants or gases from Area C. However, the possible migration of leachate from the adjacent Area D(1) was noted. In addition, it was also noted that should future groundwater levels rise within Area C there was a possibility that contaminants identified in groundwater may migrate to the stream located to the north of Area C.

Area D(1)

Three boreholes were drilled within this area to a maximum depth of 12m bgl. Landfill materials, including domestic waste, were encountered within the boreholes to a maximum depth of 10.5m bgl. During the earlier rounds of monitoring groundwater was recorded at depths between 9.90m and 10.85m bgl. During the later rounds of monitoring the boreholes were noted to be dry.

The majority of contaminants tested within the sampled soils were below the assessment criteria. For those contaminants that were above the assessment criteria statistical testing demonstrated that Area D(1) was unlikely to meet the legal definition of contaminated land. Concentration of VOCs and SVOCs recorded were not considered to be significant. Asbestos was not recorded as being present.

Leachate testing found unacceptable concentrations of sulphate that could potentially mobilise from the material in D(1). Whilst some of the environmental standards for controlled waters were exceeded, as no appreciable volumes of groundwater were identified it was considered unlikely that off-site migration would occur.

Dissolved phase contaminant testing was not possible due to the lack of appreciable groundwater. The boreholes did not intercept the London Clay below the Whitecliff Sand so leachate infiltration through the base of the landfill was not confirmed. It was considered possible for leachate to migrate out of Area D(1) towards the west to Bradshaw Close and Area C. Migration of leachate to the north of Area D(1) was also considered possible.

Gas monitoring was completed on 24 occasions and a maximum flow rate of 10.5l/hr was recorded. Flow rates were generally fairly stable throughout the monitoring period. Carbon dioxide was recorded up to 33% and was generally relatively consistent. The maximum methane concentration recorded was 74%, and generally the concentrations of methane recorded were consistently high in the region of 70%. There was variation in the monitored results within one of the boreholes for both carbon dioxide and methane with the readings appearing to be related to atmospheric pressure drops.

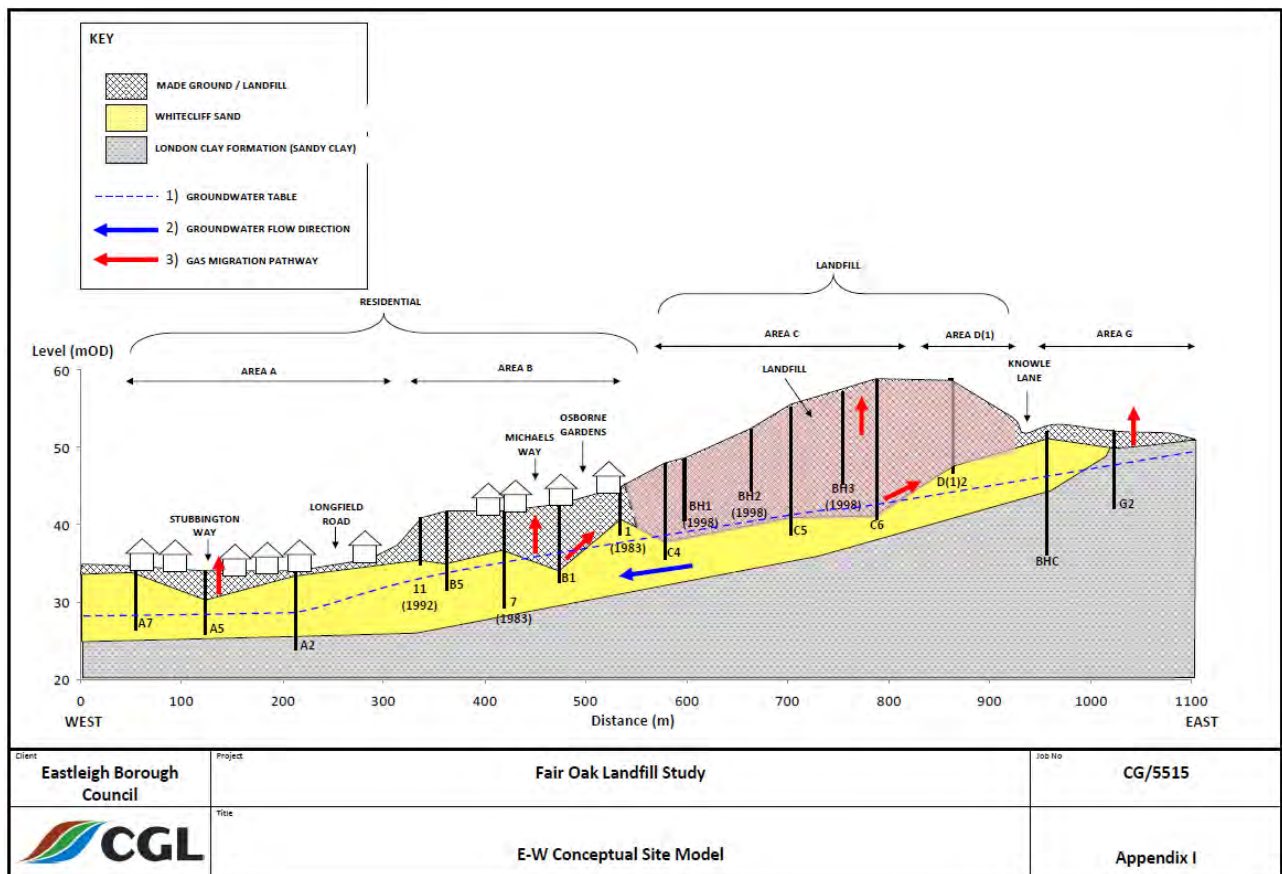
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Preliminary screening of gas data indicated a moderate risk from carbon dioxide and a moderate to high risk from methane. As there were no habitable buildings or confined spaces located on Area D(1) it was considered further risk assessment was not required. However, it was noted that should structures be considered on this area in the future gas protection measures would be required and it was also considered likely that some form of gas control would be required to reduce the characteristic gas conditions.

A number of trace gases were identified with 1,2 Dichloroethane, Toluene and Vinyl Chloride exceeding long term environmental assessment levels. In addition, elevated Benzene and Chloroethane concentrations were also recorded although specific assessment criteria were not available. Further risk assessment of these trace gases was not considered necessary due to the lack of habitable buildings on Area D(1). However, it was noted that further assessment of trace gases would be required for any future proposed development.

Area D(1) displayed some of the highest carbon dioxide and methane concentrations noted during the study.

Contaminant migration may have occurred to the west and northwest towards Bradshaw Close and Area C, migration may also have occurred to the south to Area D(2) and to the north to the adjacent industrial site. Area G lies to the east (as does the study site) and was noted to have undergone mineral abstraction and significant re-levelling. The re-levelling reduced site levels by 3-4m and as such the current level of Area G was significantly lower than that of Area D(1) reducing the risk of contaminant migration. The Section Plot below taken from the Fair Oak Landfill Study shows the elevational difference between Areas A, B, C D(1) and G.



Section Plot 1 – Cross section showing Areas A, B, C, D(1) and G (Fair Oak Landfill Study by CGL)

Area D(2)

Four boreholes were drilled within Area D(2) to a maximum depth of 18m bgl. A variable thickness of Made Ground was encountered with landfill materials encountered within one of the four boreholes to a depth of 13.5m bgl. The borehole where landfill was encountered was located near to the boundary of Area C in the northern portion of Area D(2).

Groundwater depth was reported to range between 4.01m and 14.10m bgl. In addition, water seepages were noted within the Made Ground.

The majority of contaminants tested within the sampled soils were below the assessment criteria. For those contaminants that were above the assessment criteria, Lead and Benzo(a)pyrene, statistical testing demonstrated that Area D(2) was unlikely to meet the legal definition of contaminated land. Concentrations of VOCs and SVOCs were not recorded above the laboratory limit of detection and Asbestos was not recorded as being present.

Leachate testing demonstrated that potential mobile contamination was not present. No visual or olfactory evidence of gross contamination was identified in any of the collected water samples. Generally, results of the water sampling indicated that they were all below the corresponding standards. However, concentrations of ammoniacal nitrogen and free gaseous nitrogen exceeded the relevant standards, albeit that the results were below those expected of domestic landfill. Given the local topography and groundwater flow direction it was considered unlikely that the identified ammonia was a result of off-site migration from another landfill.

Gas monitoring was completed within all of the installed boreholes on 24 occasions. The maximum flow rate recorded was 4.1l/hr, coinciding with an atmospheric pressure drop. Typical flow rates for the rest of the monitoring period were <1l/hr. The maximum concentration of carbon dioxide recorded was 23.3%, with all of the boreholes exceeding the NHBC 5% criteria throughout the monitoring. The maximum methane concentration recorded was 40.2% with all of the boreholes exceeding the NHBC 1% criteria.

Using a 'worst credible approach' the preliminary assessment of the gas data for Area D(2) indicated a low risk from carbon dioxide and a moderate risk from methane. Migration of gases from adjacent landfills to Area D(2) was a concern. Elevated concentrations of gas were recorded on Area D(2) it was considered possible that the soils underlying D(2) were collecting gas from adjacent areas. However, as the filling history of D(2) was unknown it was also considered possible that the recorded gas concentrations were sourced directly from the underlying soils. It was considered that some form of gas protection would be required within any buildings located on Area D(2).

Area D(2) represented some of the highest elevated land in the study area, and as such topography and groundwater flow directions typically flow away from the area to the northeast. Therefore, the migration of impacted waters was not considered a risk to this area.

Area G

At the time of the study investigation works, Area G was undergoing significant groundworks/quarrying which altered the ground profile.

Three boreholes were located across Area G with one located in close proximity to the Fair Oak Landfill site. No domestic refuse was identified within any of the boreholes. Made Ground was identified within two boreholes mainly consisting of brick rubble and ash. One groundwater strike was recorded during drilling at 6.05m bgl. Return groundwater monitoring recorded groundwater depths in the range 1.20m to 4.58m bgl.

For all soil contaminants tested the results were found to be below the assessment criteria. In addition, where Made Ground was identified, asbestos screening was undertaken. No asbestos fibres were identified within the samples tested. Leachate testing indicated that mobile contamination was not present. No visual or olfactory evidence of gross contamination was identified in any of the water samples collected from this area. The results of the water sampling undertaken indicated that the majority of the dissolved contaminants tested were below the corresponding standards.

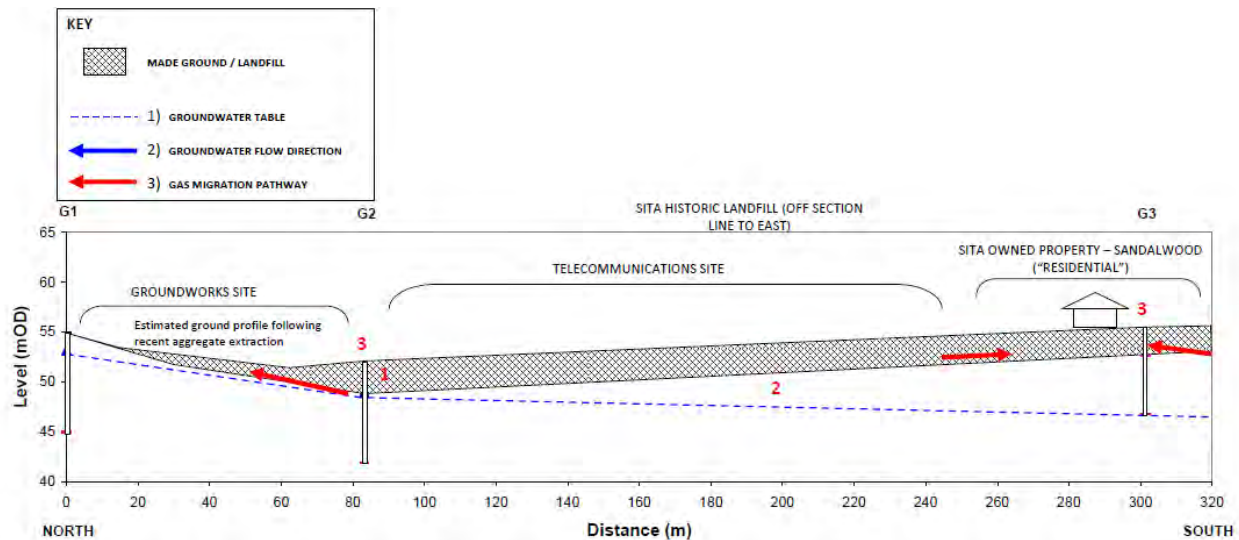
Concentrations of ammoniacal nitrogen and free ammonia were found to exceed the respective drinking water standards. The results were below those expected for a landfill with domestic refuse, therefore it was considered there was potential that the ammonia identified was residual contamination from filled ground which has since been excavated and removed. It was considered unlikely that the identified ammonia was leachate migrating from the Fair Oak Landfill site to the east of Area G as this landfill had been receiving wastes until 2010 and the identified ammonia was significantly below concentrations expected for young wastes.

Gas monitoring was completed within all the boreholes on Area G on 24 occasions. The maximum flow rate recorded was 12.3l/hr in borehole G3, the borehole located closest to Fair Oak Landfill site. This borehole exhibited the most consistent flow results, between 3l/hr and 9l/hr with boreholes G1 and G2 (located closer to the study site) exhibiting minimal flows, with a maximum of 0.9l/hr but generally no flow was recorded.

The maximum carbon dioxide reading was 24% in borehole G2 whilst the other boreholes peaked at 20% more typically reducing to around 10%. Borehole G2 exhibited fluctuating moderate to high methane concentrations, up to 23.1% and consistently above the NHBC 1% threshold. Boreholes G1 and G3 both exhibited negligible methane concentrations. Bulk gas sampling and testing matched the trends set in the monitoring information.

Preliminary assessment of the gas monitoring results indicated a moderate risk from carbon dioxide and a low risk from methane. It was noted that the highest gas concentrations were present in borehole G2 rather than G3 which was closest to Fair Oak Landfill site. However, G3 exhibited the highest flow rates in the area but minimal concentrations suggesting possible pressurisation of the gas regime in the area of G3. Therefore, there is a possibility that gas may be migrating northwest from the Fair Oak Landfill site towards Mortimers Lane, if the landfill is inadequately lined.

Area G shares boundaries with Areas D(1) and D(2) to the west and the former Fair Oak Landfill site to the south and east. There was no clear evidence of soil contamination sourced from outside the area. Elevated ammonia in groundwater was at concentrations typical of residual contamination from filled ground and was therefore not considered to be indicative of migration out of the Fair Oak Landfill site. The gas monitoring in Area G suggested that a possible preferential gas pathway exists running south-north along the eastern edge of Area G towards G2. The change from the Whitecliff Sand to the London Clay Formation where the clay comes up to cut-off the sands may be forcing the gas to surface at G2. It is also possible that pressurisation of the local gas regime due to changing groundwater levels and the confining actions of the landfill liner forcing high flow rate gas through borehole G3. Due to the rise in elevation from Area G to Areas D(1) and D(2) there is potential for gas to migrate from Area G/ Fair Oak Landfill site westwards and collect in the Deer Park Farm Industrial Estate area. A cross-section of Area G taken from the Fair Oak Landfill Study Report is presented below:



Section Plot 2 – Cross section across Area G (Fair Oak Landfill Study by CGL)

Summary

Area C – The maximum depth of domestic landfill was 22m bgl. Leachate testing showed that the results were consistent with the landfill material encountered. Groundwater flow was considered to be south-westerly (away from the subject site). Gas monitoring identified high concentrations of methane, however little evidence of migration was identified.

Area D(1) – The maximum depth of domestic landfill was 10.5m bgl. It was considered possible that leachate could migrate west from Area D(1) (away from the subject site). High concentrations of methane, carbon dioxide and trace gases were identified. Migration was considered likely from D(1) west and northwest and possibly south. Migration of contaminants east (towards the subject site) was considered less likely due to elevational differences, Area D(1) significantly higher elevation than land to the east.

Area D(2) – The maximum depth of domestic landfill was 13.5m bgl. Migration of gases to Area D(2) from adjacent landfills was a concern. It was considered a possibility that the soils underlying Area D(2) were collecting gas from adjacent areas. Area D(2) highest elevational and as such topography and groundwater flow directions typically to the northeast.

Area G – No domestic landfill encountered, only Made Ground consisting of brick rubble and ash. Although ammonia identified in leachate testing it was considered unlikely to have been migrating from the adjacent Fair Oak Landfill Site. Gas monitoring suggested a possible preferential pathway running south-north along the eastern edge of Area G (towards subject site). It was considered that the geological change from Whitecliff Sand to London Clay where the clay cuts off the sand may be forcing gas to the surface. (Gas may, therefore, be reaching the surface and freely venting to atmosphere, prior to reaching the subject site).

2.15 Potential Contamination

The site's previous and current use is as agricultural land, primarily open fields. Elevated concentrations of contaminants of concern could potentially be present within any Made Ground and shallow natural soils underlying the site given the site's agricultural use. Whilst gross contamination is considered unlikely based on the information reviewed, it would be prudent to assume the presence of commonly occurring brownfield

contaminants. Potential contaminants could include heavy metals, organic pollutants such as poly-aromatic hydrocarbons (PAH), inorganic compounds, asbestos, pesticides, and fertilisers.

Four former landfill sites are located within 500m of the site, located to the south and west of the site. It is understood that leachate management and gas extraction systems are present on one of these landfill sites, Fair Oak Landfill site. The potential for the migration of contaminants from this landfill would be reduced with the presence of these active leachate and gas management systems. However, it is understood that there are no management systems present on the three other landfill sites in close proximity to the site, Knowle Lane, Knowle Hill Lane and Hardings and Scotland Copse. As such, and due to the fact that leachate and gas management systems can be breached and/or turned off, there remains the potential for contaminants associated with these four landfill sites to migrate and impact the subject site. Potential contaminants associated with these landfills include heavy metals, organic pollutants such as poly-aromatic hydrocarbons (PAH), petroleum hydrocarbons/oils, inorganic compounds, SVOC and VOCs, PCBs. Ground gas is considered below.

2.16 Ground Gas and Vapour Summary

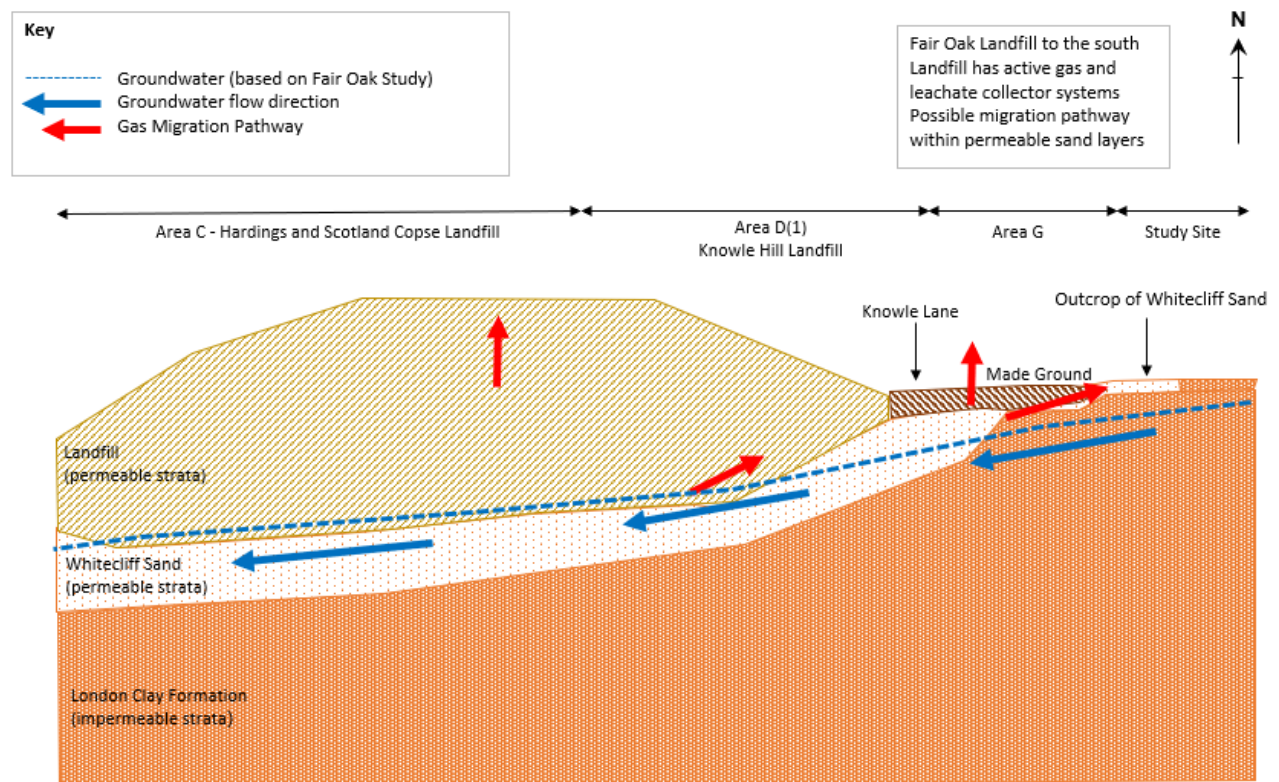
The desk study has identified the potential for ground gases and vapours associated with the four nearby former landfill sites to the south and west of the site. These landfill sites represent a potential source of ground gas due to the types of wastes that were permitted and deposited.

There is active landfill gas collection and leachate management at Fair Oak Landfill site. There are gas and groundwater monitoring boreholes located around the perimeter of the landfill site, including along the northern boundary, the boundary of the landfill closest to the subject site. The boreholes are understood to be monitored routinely for the presence of landfill gases and the results are reported to the Environment Agency in line with the Environmental Permit. It is understood that there are no gas collection systems in place within the other three identified former landfill sites, Knowle Lane, Knowle Hill Lane and Hardings and Scotland Copse.

The anticipated geology underlying the site comprises no superficial deposits, but bedrock geology primarily of the London Clay Formation with an outcrop of Whitecliff Sand Formation running across the central western portion of the site. The underlying London Clay bedrock geology is primarily formed of impermeable clay layers and as such is unlikely to represent a plausible migration pathway for ground gases. However, the outcrop of Whitecliff Sand strata is a roughly horizontally bedded formation which is likely to contain permeable layers that could represent a plausible lateral migration pathway. Lateral permeability in the Whitecliff Sand strata is likely to be substantially greater than vertical permeability.

The four nearby former landfills sites are assumed to be located within the Whitecliff Sand Formation. In addition, the Fair Oak Landfill study identified a possible preferential pathway in Area G running south-north towards the subject site potentially influenced by the geological change from the Whitecliff Sand to the London Clay. Therefore, as the Whitecliff Sand is shown on geological mapping to outcrop on part of the subject site, some form of plausible gas migration pathway from the landfills to the subject site should be assumed as being likely to be present. A conceptual site model for ground gas is presented below:

Desk Study Report



Plan 3 – Conceptual Site Model – Ground Gas

Geo-Environmental is aware of development related works on the northern portion of Area G, as described above. These works comprised the stripping of overburden soils from a former sand pit, winning of additional sand (Whitecliff Sand) and subsequent backfilling with the stripped overburden and imported soils. The backfill was understood to comprise clay rich soils. It is anticipated that the full depth of Whitecliff Sand was not won, but possibly excavated to a practicable cut-off defined by groundwater. The excavation of sand strata and backfilling with clay rich materials may, to some degree, serve to isolate the remnant Whitecliff Sand Member below the subject site from the chain of landfills downgradient to the south and west.

Ground gas monitoring is recommended to assess whether landfill gases are migrating to the site from the nearby former landfills. It is recommended that 'spot' monitoring is undertaken in order to appropriately assess the risks from ground gases and to target a worst case scenario, so as to be in line with current good practice.

3.0 PRELIMINARY ASSESSMENT

Based on the findings of the desk study, the following sections summarise the anticipated geotechnical and environmental factors likely to impact the site.

3.1 Preliminary Geotechnical Assessment

3.1.1 Potential Geotechnical Issues

The following factors that might impact the geotechnical condition of the site were identified as part of the desk study:

- The possible presence of Made Ground (e.g. varying depth and/or composition) which if encountered may affect the foundation design and construction.
- The presence of laterally and vertically variable strata, and the impact these could have on further construction.
- The suitability of shallow soils as a bearing stratum for conventional foundations.
- Consideration of the volume change potential of any cohesive soils and the affect this could have on foundations.
- The possible presence of aggressive ground conditions (sulphates) which may affect the foundation design and construction.
- The possible presence of shallow groundwater beneath the site and impact this might have on foundation type and constructability, e.g. running sand and collapse during construction.
- The presence of any trees or hedgerows on the site, which may have a significant impact on foundation design and construction if/where shrinkable soils are present.
- The potential for discharge of storm water to the ground.

3.2 Preliminary Environmental Conceptual Site Model & Risk Assessment

3.2.1 Methodology

A Preliminary Risk Assessment ('PRA') and Conceptual Site Model ('CSM'), see Figure 2, have been prepared in accordance with LCRM based on information obtained as part of the desk study. Possible risks associated with potential sources of contamination and sensitive receptors identified have been qualitatively assessed following a source-pathway-receptor ('Pollutant Linkage') approach in accordance with current UK protocols.

A risk of harm may only exist where a plausible pollutant linkage is present, and where the quantity or concentration of a contaminant is sufficient so as to pose harm. Under the statutory definition, "Contamination" may only strictly exist where contaminants pose a risk of harm to a receptor. The risk classification has been assessed in accordance with CIRIA C552 (Rudland et al., 2001). A summary of how the risks are derived and their definitions are presented in Tables 3.1 and 3.2.

		Consequence			
		Severe	Medium	Mild	Minor
Probability	High Likelihood	Very high risk	High risk	Moderate risk	Moderate/low risk
	Likely	High risk	Moderate risk	Moderate/low risk	Low risk
	Low Likelihood	Moderate risk	Moderate/low risk	Low risk	Very low risk
	Unlikely	Moderate/low risk	Low risk	Very low risk	Very low risk

Table 3.1 Risk ratings matrix

Risk Rating	Definitions
Very high risk	There is a high probability that severe harm could arise to a designated receptor from an identified hazard, OR, there is evidence that severe harm to a designated receptor is currently happening. This risk, if realised, is likely to result in a substantial liability. Urgent investigation (if not already undertaken) and remediation are likely to be required.
High risk	Harm is likely to arise to a designated receptor from an identified hazard Realisation of the risk is likely to present a substantial liability. Urgent investigation (if not already undertaken) is required and remediation works may be necessary in the short term and are likely over the longer term.
Moderate risk	It is possible that harm could arise to a designated receptor from an identified hazard. However, it is either relatively unlikely that any such harm would be severe, or if any harm were to occur it is more likely that the harm would be relatively mild.
Moderate to low risk	It is possible that harm could arise to a designated receptor from an identified hazard. However, it is unlikely that any such harm would be severe, or if any harm were to occur it is probable that the harm would be relatively mild.
Low risk	It is possible that harm could arise to a designated receptor from an identified hazard, but it is likely that this harm, if realised, would at worst normally be mild.
Very low risk	There is low possibility that harm could arise to a receptor. In the event of such harm being realised it is not likely to be severe.

Table 3.2 Risk rating definitions

3.2.2 Summary of Plausible Sources

Possible sources of contamination identified from the desk study are summarised in Table 3.3.

Source	Description	Contaminants
Made Ground and shallow soils	The general quality of Made Ground and shallow soils could be impacted by the presence of contamination in view of the site's use as agricultural land. However, this is considered to be very limited given that the main agricultural use of the site is/was grazing.	Possible elevated concentrations of metals, metalloids, TPH and PAH compounds, pesticides and asbestos in Made Ground (if present).
Off site land uses (landfills)	Four former landfills have been identified to the south and west of the site. As such, there is the potential that these land uses may have resulted in a potential impact to soils and groundwater beneath the site.	Possible elevated concentrations of metals, metalloids, possible elevated organic pollutants such as TPH and PAH compounds, sulphate and asbestos, cyanide, ammonia, SVOC and VOCs, PCBs. [gas considered separately]
Ground gases/vapours	In view of the four former landfills in close proximity to the site there is the potential for ground gases and vapours to be present.	Methane, carbon dioxide, depleted oxygen and volatile organic compounds.

Table 3.3 Possible sources of contamination

3.2.3 Summary of Plausible Pathways

The plausible pathways are summarised in Table 3.4. These pathways are based on the proposed end use, including private gardens and communal soft landscaping.

Pathway	Description
Direct Contact	Ingestion of soil particles, inhalation of soil derived dust (including tracked back dust), dermal contact.
Inhalation	Inhalation of soil dust both inside and outside of buildings. Inhalation of ground gas/vapours within buildings.
Vertical & Lateral Migration	Contaminant movement both vertically through leaching/gravity and horizontally along preferential pathways, e.g. services trenches, more permeable strata or with groundwater.
Shallow Groundwater	Shallow groundwater or perched water may be present within the Made Ground or underlying bedrock which could result in the vertical and lateral migration of contaminants.
Chemical Attack	Attack of buried plastics and concrete by aggressive ground conditions.

Table 3.4 Possible contamination pathways

3.2.4 Summary of Plausible Receptors

Potential receptors associated with the site and its development are summarised in Table 3.5.

Receptor	Description	Comments
End Users	Residents/occupants of the proposed development.	The proposed development comprises housing with assumed private garden areas, communal soft landscaped areas and car parking.
Soft Landscaping	Possible areas of planting including lawns, shrubs, trees, etc.	Soft landscaped areas are likely to comprise of managed and private gardens.

Receptor	Description	Comments
Built Environment	Buried concrete for foundations and plastics for potable water supply pipes may be laid in contact with contaminated soils.	Aggressive ground conditions and depths of Made Ground may be present beneath the site.
Adjacent Land Users	Sensitive land uses identified within the immediate vicinity.	Adjacent land use to the west is primarily residential, with associated garden areas.
Groundwater	Controlled waters contained within the aquifer(s) beneath the site.	The site overlies a Secondary 'A' Aquifer and unproductive strata and is outside of any SPZ.
Surface Water	Controlled Waters within lakes, rivers, and ponds, etc., or coastal waters.	No surface water was identified on site, however a drainage ditch was identified running along the southern field boundary and was noted to contain water during the site walkover. The next nearest surface water body was identified as a pond located 5m to the east of the site.
Ecological Receptors	Sensitive areas of ecological significance.	No ecologically sensitive areas have been identified within 500m of the site. Ecological receptors have not been considered further.

Table 3.5 Possible receptors of contamination

Site workers involved in the preparation and construction of the development have not been considered further in this assessment as the Principal Contractor is duty bound under the current CDM Regulations to undertake their own risk assessments with respect to their employees.

Whilst the above sources and receptors have been identified, Table 3.6 summarises the identified plausible pollution linkages and a qualitative assessment of the risks based on the desk study research.

A conceptual site model is presented in Figure 2.

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Potential Source/media	Potential Receptors	Potential Pathways	Likelihood	Severity	Risk and Justification
Contaminants of Concern (Made Ground and Shallow Soils)	End users	Direct contact	Low	Mild	Low End users could come into contact with soils via direct contact as the development will include private gardens and soft landscaping. Made Ground is only likely to be present in distinct and localised areas of the site.
	Soft Landscaping	Root Uptake	Low	Mild	Low The proposed development is likely to include areas of private gardens and soft landscaping.
	Adjacent land users	Direct or indirect contact	Unlikely	Mild	Very Low Adjacent site users are unlikely to come into contact with soils.
	Water supply pipes	Direct contact	Low	Mild	Low Water supply pipes could come into contact with impacted soils depending upon depth of installation and extent of any soil impact. Barrier pipe may be required, if specific contaminants are present.
	Buildings and infrastructure	Direct contact	Unlikely	Mild	Very Low Foundations and utilities will be placed within potentially aggressive soils (e.g. sulphate).
	Groundwater	Vertical migration	Unlikely	Medium	Low The proximity of nearby streams and drainage ditches indicates that shallow water (<5m bgl) could be present albeit possibly discontinuous/associated with more permeable strata. The strata beneath the site are classified as a Secondary 'A' Aquifer and Unproductive Strata. Fluctuations in groundwater levels are likely and could result in migration of mobile contaminants. However, given that site wide Made Ground or soil based impact is unlikely, the risk of harm to groundwater from Made Ground could be limited.

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Potential Source/media	Potential Receptors	Potential Pathways	Likelihood	Severity	Risk and Justification
	Surface Water	Lateral Migration	Low	Mild	Low A drainage ditch runs along the southern boundary of the site. As such where contaminants are identified within the shallow soils on the site, leaching and lateral migration of the contaminants may occur.
Off-Site Potential Sources (Landfills)	End users	Direct contact	Low	Medium	Moderate to Low End users are likely to come into contact with soils via direct contact as the development will include soft landscaping and garden areas. However, off-site sources are located c.95m from the site and the site is primarily underlain by impermeable bedrock strata.
	Soft Landscaping	Root Uptake	Low	Mild	Low Soft landscaping and private gardens are proposed.
	Adjacent land users	Direct or indirect contact	Unlikely	Mild	Very Low Adjacent site users are unlikely to come into contact with soils.
	Water supply pipes	Direct contact	Low	Mild	Low Water supply pipes could come into contact with impacted soils depending upon depth of installation and extent of soil impact. Barrier pipe may be required, if specific contaminants are present.
	Buildings and infrastructure	Direct contact	Low	Mild	Low Foundations and utilities will be placed within potentially aggressive soils (e.g. sulphate).

Desk Study Report

Potential Source/media	Potential Receptors	Potential Pathways	Likelihood	Severity	Risk and Justification
	Groundwater	Vertical migration	Low	Medium	Moderate to Low The proximity of a nearby drainage ditch indicates that shallow water (<5m bgl) could be present albeit possibly discontinuous/associated with more permeable strata. The strata beneath the site are classified as a Secondary 'A' Aquifer and Unproductive Strata. Fluctuations in groundwater levels are likely and could result in migration of mobile contaminants.
	Surface Water	Lateral Migration	Low	Mild	Low A drainage ditch runs along the southern boundary of the site adjacent to Fair Oak Landfill site which has an active leachate extraction system. Therefore, as long as the leachate extraction system is running surface waters should not be from offsite sources.
Ground Gases and Vapours	End users	Inhalation	Likely	Medium	Moderate Ingress of hazardous ground gas into buildings in proximity to any landfilled area or ground gas/vapour source could occur and could result in significant harm where ground gases are identified on site. Incorporation of gas protection measures could mitigate the risk of harm.
	Soft Landscaping	Root Uptake	Low	Mild	Low Private gardens and soft landscaping are proposed. No evidence of harm to existing plants.

Potential Source/media	Potential Receptors	Potential Pathways	Likelihood	Severity	Risk and Justification
	Adjacent land users	Inhalation	Unlikely	Medium	Low It is considered to be unlikely that adjacent land users will come into contact with ground gases and vapours originating on site. Should ground gases and vapours be identified on-site, service routes should be constructed in line with best practice to prevent the creation of preferential pathways off site. In addition, if gross contamination is identified that could represent a source of gas/vapour which could impact adjacent land users then remedial action would be required to reduce, remove or otherwise mitigate the source or break the exposure pathway(s).

Table 3.6 Plausible pollutant linkages & qualitative risk assessment

3.3 Preliminary Risk Assessment Summary

The Preliminary Risk Assessment (PRA) and Conceptual Site Model (CSM) developed from the information gathered as part of the desk study process have identified plausible potential pollutant linkages that exist in relation to the proposed redevelopment of the site.

The potential pollutant linkages established within this desk study are not considered to prevent development on the subject site, but could require investigation and assessment to support further characterisation, calibration of the CSM and where/if necessary, determine a remedial strategy to reduce, remove or otherwise control any risk within the site to key receptors.

In order to progress this assessment in line with the National Planning Policy Framework, to provide further characterisation of the site and refinement of the PRA and CSM, it is recommended that intrusive investigation and associated testing is undertaken to confirm the findings of the desk study report and to provide a robust risk assessment for the site and proposed redevelopment. As such, it is recommended that geochemical and geotechnical investigation be carried out on the site to include analysis of soil and groundwater (if encountered) samples for the range of potential contaminants identified within the desk study as well as a period of ground gas monitoring.

3.4 Preliminary Geotechnical Assessment Summary

The site is anticipated to be underlain by London Clay Formation with a small outcrop of Whitecliff Sand Formation potentially in the central western portion of the site. These strata have the potential to comprise cohesive soils and account may need to be taken of the potential for shrinkable soils to be present and the influence of shrubs and trees (existing or proposed). Cohesive strata can also be subject to transient changes in soil moisture content resulting in desiccation and thus further assessment of desiccation may be required in due course.

It is considered possible that conventional foundations, e.g. strip or pad, could be suitable for the proposed development subject to confirmation of the ground and groundwater conditions by intrusive investigation and monitoring. The presence of deep Made Ground, reworked ground or cohesive strata could require alternative foundation solutions, such as ground improvement, piles or the like. Similarly, if clay soils are present onsite then foundation design will need to account for the presence of trees/hedging and vegetation currently on the site (or proposed) and this may require deepening of foundations in line with NHBC guidance, or other relevant good practice guidance. Groundwater within granular soils could also cause constructability issues which have the potential to render conventional foundations unsuitable without significant ground support and groundwater control, and so piled foundations might also be a technical solution in this scenario.

Whilst ground bearing floor slabs may be suitable if shrinkable soil and deep Made Ground are not present, suspended floor slabs are recommended at this stage.

On the basis of anticipated clay rich soils, London Clay Formation, it is considered that storm water discharge via conventional soakaways would be unlikely to perform satisfactorily on the majority of this site and thus alternative drainage solutions may be required including on-site storage and peak storm flow attenuation prior to discharge. It may be possible to consider surface infiltration via permeable paving, shallow swales and the like prior to discharge to the local surface water network under an extension of riparian rights. Intrusive investigation, infiltration testing and groundwater monitoring would be required to inform an emerging drainage strategy for the site.

4.0 CONCLUSIONS AND RECOMMENDATIONS

4.1 Conclusions

It is concluded that there is a potential for localised soil-based contamination to exist at the site due to its recent and historic uses as well as potential for contamination to exist due to migration of contaminants from off-site sources, and that this could influence the proposed development. Whilst the individual risk ratings for the potential pollutant linkages identified ranged from moderate to very low, further assessment is required to better characterise contamination on site as a result of current and historical land uses (on and off-site) and the associated risk to identified receptors.

It is possible that conventional foundations would be suitable for the proposed development, although this is subject to confirmation following intrusive investigation, testing and monitoring.

The proposed end use of the site is understood to comprise the construction of housing and associated infrastructure with gardens and soft landscaping areas. Depending on the outcome of an intrusive investigation, it is possible that risk mitigation measures could be required including removal of Made Ground, remediation of soils and groundwater impacted by fuels and possible buried asbestos, localised soil removal, construction of a soil cover system in soft landscaped areas and ground gas/vapour protection measures, or the like.

4.2 Recommendations

At this stage and based on the findings of the desk study and preliminary risk assessment, the following scope of works is recommended for the intrusive investigation on the site:

- Intrusive investigation works including targeted investigation of potential contamination sources should be carried out in order to clarify the geotechnical and geo-environmental issues pertaining to redevelopment of the site.
- In-situ testing to assess the potential for the use of soakaways and infiltration systems, e.g. trial pit soakage tests (shallow and deep).
- Soil and groundwater (if encountered) sampling and analysis should be undertaken to inform subsequent geotechnical and geo-environmental risk assessment.
- Laboratory analysis, on soil samples recovered from the exploratory holes for a range of geotechnical parameters to support foundation design and the like.
- Laboratory analysis, on shallow soil samples and, possibly, groundwater samples recovered from the exploratory holes, for an analytical suite to include the potential contaminants identified within the desk study and encountered during any intrusive investigation. The suite should include commonly occurring metals, non-metals, asbestos, TPH, and PAH compounds and be augmented to reflect the potential contaminants identified from the desk study, i.e. VOCs, SVOCs, and pesticides.
- Preliminary waste assessment using the results of the laboratory analyses to aid identification of likely waste classifications for surplus soils.
- Waste classification testing and Waste Acceptance Criteria testing may be required if surplus spoil is to be disposed of from the development. However, this testing should be undertaken on soils known to be requiring disposal to facilitate assessment/acceptance by a receiving site such as landfill.
- Ground gas and vapour monitoring comprising spot monitoring on six occasions over a three month period. Wherever feasible, spot monitoring should target periods of low (<1000mb) and/or rapidly falling (>10mb in 24hr) atmospheric pressure in line with best practice guidance.

It is likely that remediation/risk mitigation measures will be required on this site to break pollutant linkages and thus protect key receptors such as human health, controlled waters, built environment, soft landscaping and the

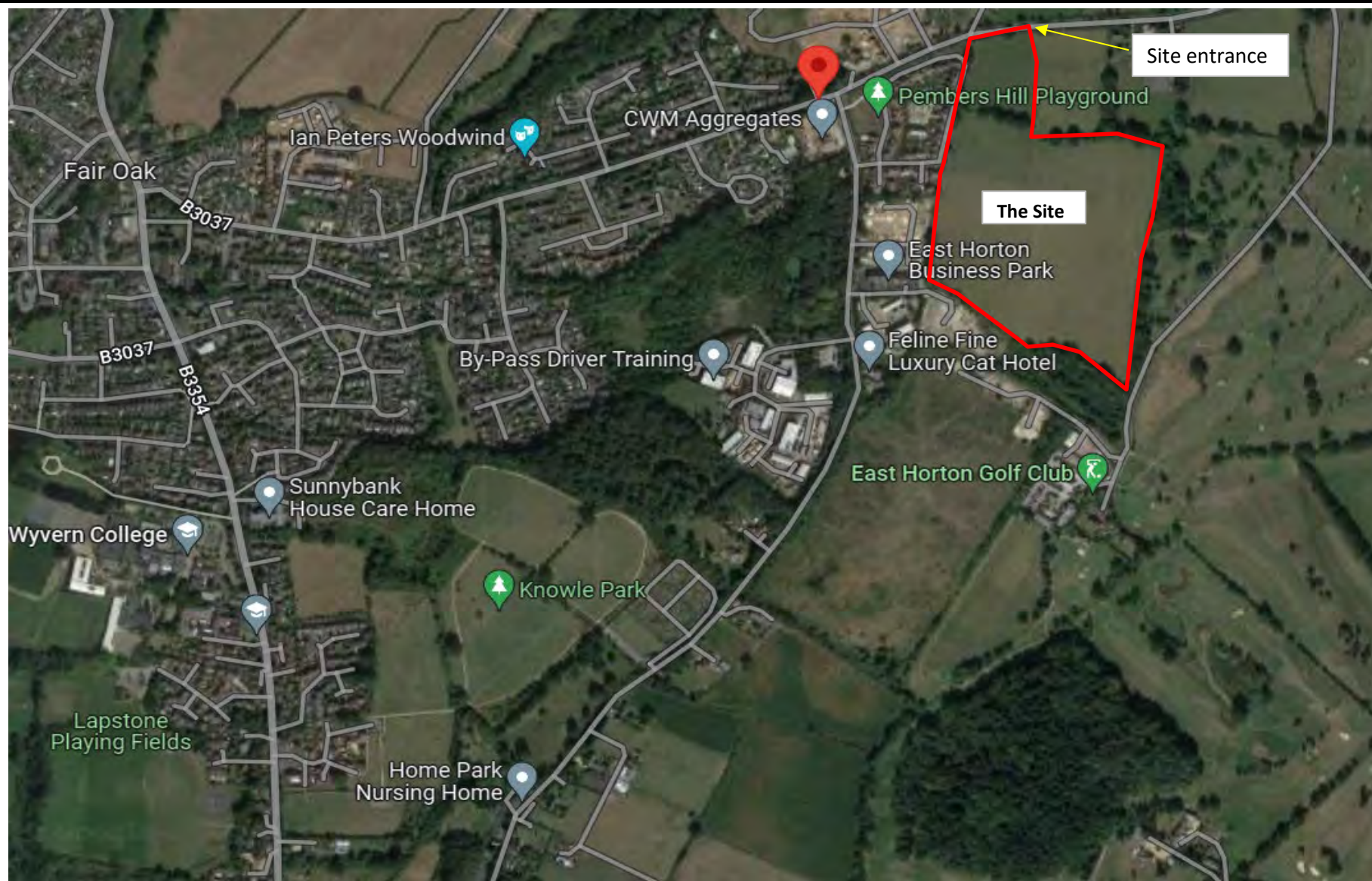
Desk Study Report

like. The requirement and extent of any such remediation cannot be determined until such time as an intrusive investigation and associated testing has been completed but could include soil and groundwater remediation, gas/vapour protection measures, barrier pipe and soil cover systems in gardens.

In addition, it is anticipated that if gross soil contamination is encountered, or pockets of asbestos impacted soils are present, these could be classified as Hazardous Waste if off-site removal was required.

FIGURES



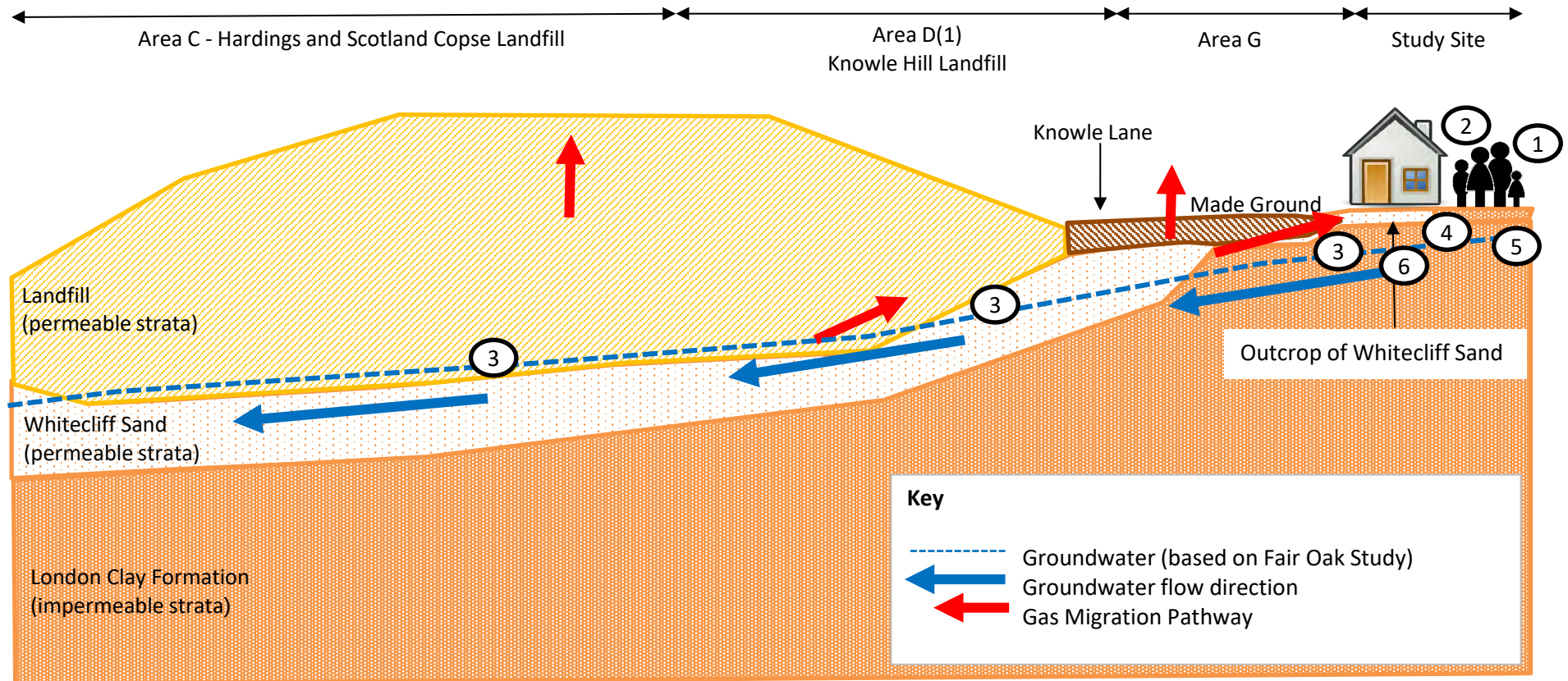


Project:	Land South of Mortimers Lane, Fair Oak			Title	Site Location Plan	
Client:	Bloor Homes			 Geo-Environmental Geo-Environmental Services Ltd Unit 7 Danworth Farm, Cuckfield Road Hurstpierpoint, West Sussex BN6 9GL +44(0)1273 832972 www.gesl.net		
Ref No:	GE21215	Revision:	0			
Drawn:	FG	Date:	22/09/2022			
Figure:	1	Scale:	Not To Scale			

Possible Pollutant Linkages:

1. Direct contact with contaminated soils, ingestion of contaminated soils
2. Inhalation of soil dusts indoor and outdoor, and inhalation of gases/vapours within buildings
3. Vertical and lateral migration through permeable strata and with groundwater
4. Shallow groundwater within made ground- vertical and lateral migration
5. Chemical attack of buried plastics and concrete

Fair Oak Landfill to the south
Landfill has active gas and
leachate collector systems
Possible migration pathway
within permeable sand layers



Project:	Land South of Mortimers Lane, Fair Oak			Title	Conceptual Site Model	
Client:	Bloor Homes Southern			Geo-Environmental Services Ltd Unit 7 Danworth Farm, Cuckfield Road Hurstpierpoint, West Sussex BN6 9GL +44(0)1273 832972 www.gesl.net		
Ref No:	GE21215	Revision:	0			
Drawn:	FG	Date:	31/01/2023			
Figure:	2	Scale:	Not To Scale			
				 Geo-Environmental		

APPENDIX A

Desk Study Information



Envirocheck[®] Report:

Datasheet

Order Details:

Order Number:

304784389_1_1

Customer Reference:

GE21215

National Grid Reference:

450690, 118680

Slice:

A

Site Area (Ha):

10.97

Search Buffer (m):

1000

Site Details:

Site at 450680, 118690

Client Details:

Ms F Goode
Geo Environmental Services Ltd
Unit 7 Danworth Farm
Cuckfield Road
Hurstpierpoint
West Sussex
BN6 9GL

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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 this 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 v53.0



Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Agency & Hydrological					
BGS Groundwater Flooding Susceptibility	pg 1	Yes	Yes	Yes	n/a
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 1		9	3	12
Prosecutions Relating to Controlled Waters			n/a	n/a	n/a
Enforcement and Prohibition Notices					
Integrated Pollution Controls					
Integrated Pollution Prevention And Control	pg 7		13		
Local Authority Integrated Pollution Prevention And Control					
Local Authority Pollution Prevention and Controls	pg 11			1	
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 11		Yes		
Pollution Incidents to Controlled Waters	pg 11		1		
Prosecutions Relating to Authorised Processes	pg 11		2		
Registered Radioactive Substances					
River Quality	pg 11			1	
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points					
Substantiated Pollution Incident Register	pg 11				5
Water Abstractions	pg 12			7	(*9)
Water Industry Act Referrals					
Groundwater Vulnerability Map	pg 16	Yes	n/a	n/a	n/a
Groundwater Vulnerability - Soluble Rock Risk			n/a	n/a	n/a
Groundwater Vulnerability - Local Information			n/a	n/a	n/a
Bedrock Aquifer Designations	pg 16	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 16		Yes	n/a	n/a
Flooding from Rivers or Sea without Defences	pg 16		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
OS Water Network Lines	pg 17		14	35	66



Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Waste					
BGS Recorded Landfill Sites	pg 30		2		
Historical Landfill Sites	pg 30		3	1	1
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)	pg 31		3		
Licensed Waste Management Facilities (Locations)	pg 32		4	1	
Local Authority Landfill Coverage		2	n/a	n/a	n/a
Local Authority Recorded Landfill Sites					
Potentially Infilled Land (Non-Water)	pg 33			2	3
Potentially Infilled Land (Water)					
Registered Landfill Sites	pg 34		1	4	2
Registered Waste Transfer Sites	pg 38	1	1	1	
Registered Waste Treatment or Disposal Sites					
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)					
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)					
Planning Hazardous Substance Consents					
Planning Hazardous Substance Enforcements					



Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Geological					
BGS 1:625,000 Solid Geology	pg 40	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 40	Yes			
BGS Recorded Mineral Sites	pg 40		3	2	1
BGS Urban Soil Chemistry					
BGS Urban Soil Chemistry Averages					
CBSCB Compensation District			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 41	Yes		n/a	n/a
Potential for Compressible Ground Stability Hazards	pg 41		Yes	n/a	n/a
Potential for Ground Dissolution Stability Hazards				n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 41	Yes		n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 41	Yes	Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 41	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
Industrial Land Use					
Contemporary Trade Directory Entries	pg 43		6	13	9
Fuel Station Entries					
Points of Interest - Commercial Services	pg 45		2	5	1
Points of Interest - Education and Health					
Points of Interest - Manufacturing and Production	pg 46		12	1	4
Points of Interest - Public Infrastructure	pg 47		2	1	3
Points of Interest - Recreational and Environmental	pg 48				2
Gas Pipelines					
Underground Electrical Cables					



Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Sensitive Land Use					
Ancient Woodland	pg 49			3	4
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 49	1			1
Ramsar Sites					
Sites of Special Scientific Interest					
Special Areas of Conservation					
Special Protection Areas					
World Heritage Sites					



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SE (N)	0	1	450695 118700
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NW (S)	146	1	450600 118350
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A8SE (S)	254	1	450800 118150
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8SW (SW)	283	1	450500 118250
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A8SE (S)	305	1	450700 118100
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8SE (S)	359	1	450700 118050
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8SE (S)	369	1	450695 118050
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12NE (NW)	372	1	450250 119100
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8SW (SW)	382	1	450400 118200
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A3NE (S)	404	1	450700 118000
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A3NW (S)	433	1	450650 118000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A3NW (S)	453	1	450600 118000
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A3NW (S)	498	1	450600 117950
1	Discharge Consents Operator: Parsons Construction Limited Property Type: DOMESTIC PROPERTY (MULTIPLE) (INCL FARM HOUSES) Location: Proposed Development At Knowle Lane, Fair Oak, Eastleigh, Hampshire, So50 7dz Authority: Environment Agency, Southern Region Catchment Area: Hamble Reference: Npswqd009192 Permit Version: 1 Effective Date: 11th September 2009 Issued Date: 11th September 2009 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Ditch Leading To Ford Lake Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A8NW (SW)	1	2	450557 118559



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
2	Discharge Consents Operator: Hampshire C.C. Property Type: DOMESTIC PROPERTY (SINGLE) (INCL FARM HOUSE) Location: Hampshire C C , Knowle Ln Recycling Ctr, FAIR OAK , Hampshire Authority: Environment Agency, Southern Region Catchment Area: Not Given Reference: P00380 Permit Version: 1 Effective Date: 11th March 1986 Issued Date: 11th March 1986 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Land/Soakaway Environment: Receiving Water: Into Land Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989 Positional Accuracy: Located by supplier to within 100m	A8NW (SW)	125	2	450400 118540
3	Discharge Consents Operator: Bskyb Ltd. Property Type: MAKING OF COMPUTERS/ELECTRONICS/OPTICAL PRODUCTS Location: Disaster Recovery Facility, Knowle Lane, Fair Oak, Eastleigh, Hampshire, So50 7dz Authority: Environment Agency, Southern Region Catchment Area: Not Supplied Reference: P09911 Permit Version: 2 Effective Date: 21st December 2012 Issued Date: 21st December 2012 Revocation Date: 20th June 2018 Discharge Type: Trade Effluent Discharge-Site Drainage Discharge Land/Soakaway Environment: Receiving Water: Into Land Status: Revoked under EPR 2010 Positional Accuracy: Located by supplier to within 10m	A8NW (SW)	131	2	450480 118450
3	Discharge Consents Operator: Bskyb Ltd. Property Type: MAKING OF COMPUTERS/ELECTRONICS/OPTICAL PRODUCTS Location: Disaster Recovery Facility, Knowle Lane, Fair Oak, Eastleigh, Hampshire, So50 7dz Authority: Environment Agency, Southern Region Catchment Area: Not Supplied Reference: P09911 Permit Version: 1 Effective Date: 22nd June 2001 Issued Date: 22nd June 2001 Revocation Date: 20th December 2012 Discharge Type: Trade Effluent Discharge-Site Drainage Discharge Land/Soakaway Environment: Receiving Water: Into Land Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989 Positional Accuracy: Located by supplier to within 10m	A8NW (SW)	131	2	450480 118450
3	Discharge Consents Operator: Bskyb Ltd. Property Type: MAKING OF COMPUTERS/ELECTRONICS/OPTICAL PRODUCTS Location: Disaster Recovery Facility, Knowle Lane, Fair Oak, Hampshire Authority: Environment Agency, Southern Region Catchment Area: Not Supplied Reference: P09912 Permit Version: 1 Effective Date: 22nd June 2001 Issued Date: 22nd June 2001 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Land/Soakaway Environment: Receiving Water: Into Land Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989 Positional Accuracy: Located by supplier to within 10m	A8NW (SW)	131	2	450480 118450



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
4	Discharge Consents Operator: Mr Kevin Cooper Property Type: DOMESTIC PROPERTY (SINGLE) (INCL FARM HOUSE) Location: New House, Pembers Hill Farm, Mortimers Lane, Fair Oak, Eastleigh, Hampshire, So50 7ea Authority: Environment Agency, Southern Region Catchment Area: Hamble Reference: G01250 Permit Version: 1 Effective Date: 1st September 2007 Issued Date: 20th August 2007 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Unnamed Drainage Ditch Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A13SW (NW)	137	2	450435 118890
4	Discharge Consents Operator: Mr Kevin Cooper Property Type: DOMESTIC PROPERTY (SINGLE) (INCL FARM HOUSE) Location: New House, Pembers Hill Farm, Mortimers Lane, Fair Oak, Eastleigh, Hampshire, So50 7ea Authority: Environment Agency, Southern Region Catchment Area: Hamble Reference: G01250 Permit Version: 1 Effective Date: 1st September 2007 Issued Date: 20th August 2007 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Land/Soakaway Environment: Receiving Water: Unnamed Drainage Ditch Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A13SW (NW)	150	2	450423 118896
5	Discharge Consents Operator: Veolia Es Hampshire Ltd Property Type: WASTE COLLECTION/TREATMENT/DISPOSAL/MATERIALS RECOVERY Location: Fair Oak Household Waste..., ..Recycling Centre, Knowle Lane, Fair Oak, Hants Authority: Environment Agency, Southern Region Catchment Area: Not Supplied Reference: P09129 Permit Version: 2 Effective Date: 21st December 2012 Issued Date: 21st December 2012 Revocation Date: Not Supplied Discharge Type: Trade Effluent Discharge-Site Drainage Discharge: Land/Soakaway Environment: Receiving Water: Into Land Status: Varied under EPR 2010 Positional Accuracy: Located by supplier to within 10m	A7NE (SW)	244	2	450350 118400
5	Discharge Consents Operator: Hopkins Recycling Limited Property Type: WASTE COLLECTION/TREATMENT/DISPOSAL/MATERIALS RECOVERY Location: Fair Oak Household Waste..., ..Recycling Centre, Knowle Lane, Fair Oak, Hants Authority: Environment Agency, Southern Region Catchment Area: Not Supplied Reference: P09129 Permit Version: 1 Effective Date: 12th September 2000 Issued Date: 12th September 2000 Revocation Date: 20th December 2012 Discharge Type: Trade Effluent Discharge-Site Drainage Discharge: Land/Soakaway Environment: Receiving Water: Into Land Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989 Positional Accuracy: Located by supplier to within 10m	A7NE (SW)	244	2	450350 118400



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
6	Discharge Consents Operator: Messrs E & R Bastian Property Type: DOMESTIC PROPERTY (SINGLE) (INCL FARM HOUSE) Location: East Horton Farm, Mortimers Lane, Fair Oak, Hampshire Authority: Environment Agency, Southern Region Catchment Area: Hamble Reference: P04231 Permit Version: 1 Effective Date: 20th July 1992 Issued Date: 20th July 1992 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Freshwater Stream Or River Status: Post National Rivers Authority Legislation where issue date > 31/08/1989 Positional Accuracy: Located by supplier to within 100m	A8SE (S)	255	2	450800 118150
7	Discharge Consents Operator: Mr J White Property Type: REAL ESTATE ACTIVITIES/BUYING/SELLING/RENTING Location: Plot 4, Deer Park Farm, Fair Oak Plot 4, Deer Park Farm, Fair Oak, Eastleigh, Hampshire, So50 7dz Authority: Environment Agency, Southern Region Catchment Area: Hamble Reference: G00971 Permit Version: 2 Effective Date: 21st December 2012 Issued Date: 21st December 2012 Revocation Date: Not Supplied Discharge Type: Trade Effluent Discharge-Site Drainage Discharge: Land/Soakaway Environment: Receiving Water: Groundwater Via Soakaway Status: Varied under EPR 2010 Positional Accuracy: Located by supplier to within 10m	A7SE (SW)	375	2	450338 118247
7	Discharge Consents Operator: Mr J White Property Type: REAL ESTATE ACTIVITIES/BUYING/SELLING/RENTING Location: Plot 4, Deer Park Farm, Fair Oak Plot 4, Deer Park Farm, Fair Oak, Eastleigh, Hampshire, So50 7dz Authority: Environment Agency, Southern Region Catchment Area: Hamble Reference: G00971 Permit Version: 1 Effective Date: 9th November 2006 Issued Date: 9th November 2006 Revocation Date: 20th December 2012 Discharge Type: Trade Effluent Discharge-Site Drainage Discharge: Land/Soakaway Environment: Receiving Water: Groundwater Via Soakaway Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A7SE (SW)	375	2	450338 118247
8	Discharge Consents Operator: Sita Uk Ltd Property Type: MINERAL/GRAVEL EXTRACTION/QUARRYING Location: Fair Oak Quarry, East Horton Farm, Mortimers Lane, Fair Oak Authority: Environment Agency, Southern Region Catchment Area: Hamble Reference: P05701 Permit Version: 2 Effective Date: 18th July 1995 Issued Date: 18th July 1995 Revocation Date: 7th August 2012 Discharge Type: Trade Effluent Discharge-Site Drainage Discharge: Freshwater Stream/River Environment: Receiving Water: Ford Lake Status: Surrendered under EPR 2010 Positional Accuracy: Located by supplier to within 10m	A3NW (S)	541	2	450510 117950



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
8	Discharge Consents Operator: S Grundon (Ewelme) Ltd Property Type: MINERAL/GRAVEL EXTRACTION/QUARRYING Location: Fair Oak Quarry, East Horton Farm, Mortimers Lane, Fair Oak Authority: Environment Agency, Southern Region Catchment Area: Not Supplied Reference: P05701 Permit Version: 1 Effective Date: 20th April 1995 Issued Date: 20th April 1995 Revocation Date: 18th July 1995 Discharge Type: Trade Effluent Discharge-Site Drainage Discharge: Freshwater Stream/River Environment: Receiving Water: Freshwater River Status: Post National Rivers Authority Legislation where issue date > 31/08/1989 Positional Accuracy: Located by supplier to within 10m	A3NW (S)	541	2	450510 117950
9	Discharge Consents Operator: Mr Whalley Property Type: DOMESTIC PROPERTY (SINGLE) (INCL FARM HOUSE) Location: Hall Lands House, Hall Lands Lane, Fair Oak, Hampshire, So50 7ef Authority: Environment Agency, Southern Region Catchment Area: Not Supplied Reference: P09416 Permit Version: 1 Effective Date: 20th April 2001 Issued Date: 20th April 2001 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Land/Soakaway Environment: Receiving Water: Into Land Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989 Positional Accuracy: Located by supplier to within 10m	A12NE (NW)	560	2	450090 119200
10	Discharge Consents Operator: Winchester City Council Property Type: WWTW (NOT WATER CO) (NOT STP AT A PRIVATE PREMISES) Location: Scotland Copse S.T.W., Fair Oak Hants Authority: Environment Agency, Southern Region Catchment Area: Not Given Reference: H00524 Permit Version: 1 Effective Date: 13th July 1962 Issued Date: 13th July 1962 Revocation Date: 31st March 1997 Discharge Type: Non Water Company (Private) Sewage Discharge: Freshwater Stream/River Environment: Receiving Water: Freshwater River Status: Lapsed (under Environment Act 1995, Schedule 23) Positional Accuracy: Located by supplier to within 100m	A7NW (W)	621	2	449900 118600
11	Discharge Consents Operator: Milbury Homes Limited Property Type: Undefined Or Other Location: Oak Gardens, Fair Oak, Eastleigh, Hampshire Authority: Environment Agency, Southern Region Catchment Area: Not Supplied Reference: N01094 Permit Version: 1 Effective Date: 12th August 1983 Issued Date: 12th August 1983 Revocation Date: 4th November 1992 Discharge Type: Discharge Of Other Matter-Surface Water Discharge: Freshwater Stream/River Environment: Receiving Water: Freshwater River Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989 Positional Accuracy: Located by supplier to within 10m	A6NE (W)	870	2	449650 118550



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
12	Discharge Consents Operator: J.B.Pitters Esq. Property Type: DOMESTIC PROPERTY (SINGLE) (INCL FARM HOUSE) Location: J.B.Pitters Esq., Hawthorn Farm, Mortimers Lane , Lower Upham Hampshire Authority: Environment Agency, Southern Region Catchment Area: Not Given Reference: P00070 Permit Version: 1 Effective Date: 25th June 1985 Issued Date: 25th June 1985 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Land/Soakaway Environment: Receiving Water: Into Land Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989 Positional Accuracy: Located by supplier to within 100m	A14NE (NE)	899	2	451560 119340
13	Discharge Consents Operator: Milbury Homes Limited Property Type: Undefined Or Other Location: Oak Gardens, Fair Oak, Eastleigh, Hampshire Authority: Environment Agency, Southern Region Catchment Area: Not Supplied Reference: N01094 Permit Version: 1 Effective Date: 12th August 1983 Issued Date: 12th August 1983 Revocation Date: 4th November 1992 Discharge Type: Discharge Of Other Matter-Surface Water Discharge: Freshwater Stream/River Environment: Receiving Water: Freshwater River Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989 Positional Accuracy: Located by supplier to within 10m	A6NE (W)	920	2	449600 118550
13	Discharge Consents Operator: Millbrook Homes Plc Property Type: WAREHOUSING + SUPPORT ACTIVITIES FOR TRANSPORTATION Location: Mortimers Garage Site, Mortimers Lane, Fair Oak , Eastleigh Hampshire Authority: Environment Agency, Southern Region Catchment Area: Not Given Reference: P02206 Permit Version: 1 Effective Date: 8th March 1989 Issued Date: 8th March 1989 Revocation Date: 1st July 1991 Discharge Type: Discharge Of Other Matter-Surface Water Discharge: Freshwater Stream/River Environment: Receiving Water: Freshwater River Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989 Positional Accuracy: Located by supplier to within 100m	A6NE (W)	941	2	449580 118530
13	Discharge Consents Operator: Milbury Homes Limited Property Type: Undefined Or Other Location: Oak Gardens, Fair Oak, Eastleigh, Hampshire Authority: Environment Agency, Southern Region Catchment Area: Not Supplied Reference: N01094 Permit Version: 1 Effective Date: 12th August 1983 Issued Date: 12th August 1983 Revocation Date: 4th November 1992 Discharge Type: Discharge Of Other Matter-Surface Water Discharge: Freshwater Stream/River Environment: Receiving Water: Freshwater River Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989 Positional Accuracy: Located by supplier to within 10m	A6NE (W)	970	2	449550 118550



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
13	Discharge Consents Operator: Millbrook Homes Plc Property Type: WAREHOUSING + SUPPORT ACTIVITIES FOR TRANSPORTATION Location: Mortimers Garage Site, Mortimers Lane, Fair Oak , Eastleigh Hampshire Authority: Environment Agency, Southern Region Catchment Area: Not Supplied Reference: P02206 Permit Version: 1 Effective Date: 8th March 1989 Issued Date: 8th March 1989 Revocation Date: 1st July 1991 Discharge Type: Discharge Of Other Matter-Surface Water Discharge: Freshwater Stream/River Environment: Receiving Water: Freshwater River Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989 Positional Accuracy: Located by supplier to within 10m	A6NE (W)	981	2	449540 118530
14	Discharge Consents Operator: Mrs L A Ward Property Type: DOMESTIC PROPERTY (SINGLE) (INCL FARM HOUSE) Location: Broke Cottage, Durley Hall Lane, Durley, Southampton, Hampshire, So32 2an Authority: Environment Agency, Southern Region Catchment Area: Not Given Reference: P06123 Permit Version: 1 Effective Date: 11th July 1996 Issued Date: 11th July 1996 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Land/Soakaway Environment: Receiving Water: Into Land Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 100m	A10SW (SE)	956	2	451750 118240
15	Discharge Consents Operator: William Hill & Gillian Bennett Property Type: DOMESTIC PROPERTY (SINGLE) (INCL FARM HOUSE) Location: 2 Lowhill Farm Cottages, Stp Portsmouth Road, Fishers Pond, Eastleigh, Hants, So50 7hf Authority: Environment Agency, Southern Region Catchment Area: Not Supplied Reference: Npswqd008319 Permit Version: 1 Effective Date: 30th July 2009 Issued Date: 30th July 2009 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Lake/Reservoir - with outlet Environment: Receiving Water: Tributary Of Bow Lake Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A18NW (N)	996	2	450442 119927
16	Integrated Pollution Prevention And Control Name: Sita Southern Limited Location: Fair Oak Landfill Epr/Bk1244ia, Off Mortimers Lane, Fair Oak., EASTLEIGH, Hampshire, SO50 7EA Authority: Environment Agency - South East Region, Solent & South Downs Area Permit Reference: YP3037AJ Original Permit Ref: Bk1244ia Effective Date: 30th July 2015 Status: Superseded By Variation Application Type: Variation App. Sub Type: Minor Positional Accuracy: Automatically positioned to the address Activity Code: 0.0 Associated Process Activity Description: Associated Process Primary Activity: N Activity Code: 5.2 A(1) (A) Activity Description: Waste Landfilling; Greater Than 10 T/D With Capacity Greater Than 25,000T Excluding Inert Waste Primary Activity: Y	A8NW (S)	98	2	450666 118378



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
16	Integrated Pollution Prevention And Control Name: Sita Southern Limited Location: Fair Oak Landfill Epr/Bk1244ia, Off Mortimers Lane, Fair Oak., EASTLEIGH, Hampshire, SO50 7EA Authority: Environment Agency - South East Region, Solent & South Downs Area Permit Reference: FP3435AG Original Permit Ref: Bk1244ia Effective Date: 28th May 2015 Status: Superseded By Variation Application Type: Variation App. Sub Type: Standard Positional Accuracy: Automatically positioned to the address Activity Code: 5.2 A(1) (A) Activity Description: Waste Landfilling; Greater Than 10 T/D With Capacity Greater Than 25,000T Excluding Inert Waste Primary Activity: Y Activity Code: 0.0 Associated Process Activity Description: Associated Process Primary Activity: N	A8NW (S)	98	2	450666 118378
16	Integrated Pollution Prevention And Control Name: Sita Southern Limited Location: Fair Oak Landfill Epr/Bk1244ia, Off Mortimers Lane, Fair Oak., EASTLEIGH, Hampshire, SO50 7EA Authority: Environment Agency - South East Region, Solent & South Downs Area Permit Reference: CP3137EX Original Permit Ref: Bk1244ia Effective Date: 23rd April 2014 Status: Superseded By Variation Application Type: Variation App. Sub Type: Simple Standard Variation Positional Accuracy: Automatically positioned to the address Activity Code: 0.0 Associated Process Activity Description: Associated Process Primary Activity: N Activity Code: 5.2 A(1) (A) Activity Description: Waste Landfilling; Greater Than 10 T/D With Capacity Greater Than 25,000T Excluding Inert Waste Primary Activity: Y	A8NW (S)	98	2	450666 118378
16	Integrated Pollution Prevention And Control Name: Sita Southern Limited Location: Fair Oak Landfill Epr/Bk1244ia, Off Mortimers Lane, Fair Oak., EASTLEIGH, Hampshire, SO50 7EA Authority: Environment Agency - South East Region, Solent & South Downs Area Permit Reference: BP3133NX Original Permit Ref: Bk1244ia Effective Date: 24th May 2013 Status: Superseded By Variation Application Type: Variation App. Sub Type: Minor Positional Accuracy: Automatically positioned to the address Activity Code: 0.0 Associated Process Activity Description: Associated Process Primary Activity: N Activity Code: 5.2 A(1) (A) Activity Description: Waste Landfilling; Greater Than 10 T/D With Capacity Greater Than 25,000T Excluding Inert Waste Primary Activity: Y	A8NW (S)	98	2	450666 118378
16	Integrated Pollution Prevention And Control Name: Sita Southern Limited Location: Fair Oak Landfill Epr/Bk1244ia, Off Mortimers Lane, Fair Oak., EASTLEIGH, Hampshire, SO50 7EA Authority: Environment Agency - South East Region, Solent & South Downs Area Permit Reference: AP3637LY Original Permit Ref: Bk1244ia Effective Date: 2nd April 2008 Status: Superseded By Variation Application Type: Variation App. Sub Type: Minor Positional Accuracy: Automatically positioned to the address Activity Code: 0.0 Associated Process Activity Description: Associated Process Primary Activity: N Activity Code: 5.2 A(1) (A) Activity Description: Waste Landfilling; Greater Than 10 T/D With Capacity Greater Than 25,000T Excluding Inert Waste Primary Activity: Y	A8NW (S)	98	2	450666 118378



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
16	Integrated Pollution Prevention And Control Name: Sita Southern Limited Location: Fair Oak Landfill Epr/Bk1244ia, Off Mortimers Lane, Fair Oak,, EASTLEIGH, Hampshire, SO50 7EA Authority: Environment Agency - South East Region, Solent & South Downs Area Permit Reference: RP3837SB Original Permit Ref: Bk1244ia Effective Date: 30th January 2006 Status: Superseded By Variation Application Type: Variation App. Sub Type: Substantial Positional Accuracy: Automatically positioned to the address Activity Code: 5.2 A(1) (A) Activity Description: Waste Landfilling; Greater Than 10 T/D With Capacity Greater Than 25,000T Excluding Inert Waste Primary Activity: Y Activity Code: 0.0 Associated Process Activity Description: Associated Process Primary Activity: N	A8NW (S)	98	2	450666 118378
16	Integrated Pollution Prevention And Control Name: Sita Southern Limited Location: Fair Oak Landfill Epr/Bk1244ia, Off Mortimers Lane, Fair Oak,, EASTLEIGH, Hampshire, SO50 7EA Authority: Environment Agency - South East Region, Solent & South Downs Area Permit Reference: BK1244IA Original Permit Ref: Bk1244ia Effective Date: 15th July 2002 Status: Superseded By Variation Application Type: Application App. Sub Type: New Positional Accuracy: Automatically positioned to the address Activity Code: 5.2 A(1) (A) Activity Description: Waste Landfilling; Greater Than 10 T/D With Capacity Greater Than 25,000T Excluding Inert Waste Primary Activity: Y	A8NW (S)	98	2	450666 118378
17	Integrated Pollution Prevention And Control Name: Suez Recycling & Recovery Southern Ltd Location: Fair Oak Landfill Epr/Bk1244ia, Off Mortimers Lane, Fair Oak,, EASTLEIGH, Hampshire, SO50 7EA Authority: Environment Agency - South East Region, Solent & South Downs Area Permit Reference: MP3104BM Original Permit Ref: Bk1244ia Effective Date: 26th May 2021 Status: Effective Application Type: Variation App. Sub Type: Standard Positional Accuracy: Located by supplier to within 10m Activity Code: 5.2 A(1) (A) Activity Description: Waste Landfilling; Greater Than 10 T/D With Capacity Greater Than 25,000T Excluding Inert Waste Primary Activity: Y Activity Code: 0.0 Associated Process Activity Description: Associated Process Primary Activity: N	A8SE (S)	148	2	450770 118260
17	Integrated Pollution Prevention And Control Name: Suez Recycling & Recovery Southern Ltd Location: Fair Oak Landfill Epr/Bk1244ia, Off Mortimers Lane, Fair Oak,, EASTLEIGH, Hampshire, SO50 7EA Authority: Environment Agency - South East Region, Solent & South Downs Area Permit Reference: TP3532JS Original Permit Ref: Bk1244ia Effective Date: 2nd February 2018 Status: Superseded By Variation Application Type: Variation App. Sub Type: Minor Positional Accuracy: Located by supplier to within 10m Activity Code: 5.2 A(1) (A) Activity Description: Waste Landfilling; Greater Than 10 T/D With Capacity Greater Than 25,000T Excluding Inert Waste Primary Activity: Y Activity Code: 0.0 Associated Process Activity Description: Associated Process Primary Activity: N	A8SE (S)	148	2	450770 118260



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
17	Integrated Pollution Prevention And Control Name: Shukco 348 Ltd Location: Fair Oak Landfill Epr/Bk1244ia, Off Mortimers Lane, Fair Oak,, EASTLEIGH, Hampshire, SO50 7EA Authority: Environment Agency - South East Region, Solent & South Downs Area Permit Reference: GP3435DF Original Permit Ref: Bk1244ia Effective Date: 30th June 2016 Status: Superseded By Variation Application Type: Variation App. Sub Type: Minor Positional Accuracy: Located by supplier to within 10m Activity Code: 0.0 Associated Process Activity Description: Associated Process Primary Activity: N Activity Code: 5.2 A(1) (A) Activity Description: Waste Landfilling; Greater Than 10 T/D With Capacity Greater Than 25,000T Excluding Inert Waste Primary Activity: Y	A8SE (S)	148	2	450770 118260
18	Integrated Pollution Prevention And Control Name: Sita Southern Limited Location: Fair Oak Landfill, Off Mortimers Lane, Fair Oak, Eastleigh, Hampshire, So50 7ea Authority: Environment Agency, Southern Region Permit Reference: Rp3837sb Original Permit Ref: Bk1244ia Effective Date: 30th January 2006 Status: Superseded By Variation Application Type: Variation App. Sub Type: Substantial Positional Accuracy: Manually positioned to the address or location Activity Code: 0.0 Associated Process Activity Description: Associated Process Primary Activity: N Activity Code: 5.2 A(1) (A) Activity Description: Waste Landfilling; Greater Than 10 T/D With Capacity Greater Than 25,000T Excluding Inert Waste Primary Activity: Y	A8NW (SW)	163	2	450501 118400
18	Integrated Pollution Prevention And Control Name: Sita Southern Limited Location: Fair Oak Landfill, Off Mortimers Lane, Fair Oak, Eastleigh, Hampshire, SO50 7EA Authority: Environment Agency, Southern Region Permit Reference: Bk1244ia Original Permit Ref: Bk1244ia Effective Date: 15th July 2002 Status: Superseded By Variation Application Type: Application App. Sub Type: New Positional Accuracy: Located by supplier to within 100m Activity Code: 5.2 A(1) (A) Activity Description: Waste Landfilling; Greater Than 10 T/D With Capacity Greater Than 25,000T Excluding Inert Waste Primary Activity: Y	A8NW (SW)	163	2	450500 118400
19	Integrated Pollution Prevention And Control Name: Sita Southern Limited Location: Fair Oak Landfill, Off Mortimers Lane, Fair Oak,, EASTLEIGH, Hampshire, SO50 7EA Authority: Environment Agency, Southern Region Permit Reference: AP3637LY Original Permit Ref: Bk1244ia Effective Date: 2nd April 2008 Status: Effective Application Type: Variation App. Sub Type: Minor Positional Accuracy: Manually positioned to the road within the address or location Activity Code: 5.2 A(1) (A) Activity Description: Waste Landfilling; Greater Than 10 T/D With Capacity Greater Than 25,000T Excluding Inert Waste Primary Activity: Y Activity Code: 0.0 Associated Process Activity Description: Associated Process Primary Activity: N	A13SE (NE)	202	2	450897 118984



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
20	Local Authority Pollution Prevention and Controls Name: Tarmac Topmix Ltd Location: Fair Oak Sandpit, Mortimers Lane, EASTLEIGH, Hampshire, SO50 7EA Authority: Eastleigh Borough Council, Environmental Health Department Permit Reference: Cbp1b Dated: 21st January 1993 Process Type: Local Authority Pollution Prevention and Control Description: PG3/1Blending, packing, loading and use of bulk cement Status: Authorisation revoked Positional Accuracy: Located by supplier to within 10m	A8SW (SW)	361	3	450471 118177
	Nearest Surface Water Feature	A13SE (E)	5	-	450866 118742
21	Pollution Incidents to Controlled Waters Property Type: Other General Premises Location: East Horton Golf Club Authority: Environment Agency, Southern Region Pollutant: Sewage - Septic Tank Effluent Note: Sewage Discharging Into Stream Incident Date: 19th March 1993 Incident Reference: 554 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Sewage - Other Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A8SE (S)	205	2	450800 118200
22	Prosecutions Relating to Authorised Processes Location: Fair Oak Landfill Site, Off Mortimer Lane, East Horton Farm, Eastleigh, So50 7dz Prosecution Text: Allowing strong gas odours to escape a landfill and affect residential areas Prosecution Act: Epa90 S56 Hearing Date: 3rd May 2005 Verdict: Guilty Fine: 10000 Costs: 1500 Positional Accuracy: Manually positioned within the geographical locality	A8NW (S)	58	2	450612 118447
22	Prosecutions Relating to Authorised Processes Location: Fair Oak Landfill, Fair Oak, Hampshire Prosecution Text: A failing flare led to gas escaping the landfill and permeating the air Prosecution Act: Epa90 S32(1)(B) Hearing Date: 9th September 2004 Verdict: Guilty Fine: 30000 Costs: 2013 Positional Accuracy: Manually positioned to the address or location	A8NW (S)	85	2	450591 118429
	River Quality Name: Horton Heath Strm GQA Grade: River Quality B Reach: Hamble Conf - Lower Upham Estimated Distance (km): 8.1 Flow Rate: Flow less than 0.31 cumecs Flow Type: River Year: 2000	A9NW (SE)	256	2	451091 118449
23	Substantiated Pollution Incident Register Authority: Environment Agency - Southern Region, Solent and South Downs Incident Date: 9th July 2003 Incident Reference: 172378 Water Impact: Category 4 - No Impact Air Impact: Category 2 - Significant Incident Land Impact: Category 4 - No Impact Positional Accuracy: Located by supplier to within 10m Pollutant: Atmospheric Pollutants and Effects: Landfill Odour	A7SE (SW)	510	2	450323 118098
24	Substantiated Pollution Incident Register Authority: Environment Agency - Southern Region, Solent and South Downs Incident Date: 16th May 2004 Incident Reference: 237116 Water Impact: Category 4 - No Impact Air Impact: Category 2 - Significant Incident Land Impact: Category 4 - No Impact Positional Accuracy: Located by supplier to within 10m Pollutant: Atmospheric Pollutants and Effects: Landfill Odour	A7SE (SW)	553	2	450273 118080



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
24	Substantiated Pollution Incident Register Authority: Environment Agency - Southern Region, Solent and South Downs Incident Date: 19th May 2004 Incident Reference: 238142 Water Impact: Category 4 - No Impact Air Impact: Category 2 - Significant Incident Land Impact: Category 4 - No Impact Positional Accuracy: Located by supplier to within 10m Pollutant: Atmospheric Pollutants and Effects: Landfill Odour	A7SE (SW)	557	2	450276 118074
24	Substantiated Pollution Incident Register Authority: Environment Agency - Southern Region, Solent and South Downs Incident Date: 29th July 2006 Incident Reference: 422497 Water Impact: Category 4 - No Impact Air Impact: Category 2 - Significant Incident Land Impact: Category 4 - No Impact Positional Accuracy: Located by supplier to within 10m Pollutant: Atmospheric Pollutants and Effects: Landfill Odour	A7SE (SW)	566	2	450264 118070
24	Substantiated Pollution Incident Register Authority: Environment Agency - Southern Region, Solent and South Downs Incident Date: 13th March 2003 Incident Reference: 142756 Water Impact: Category 4 - No Impact Air Impact: Category 2 - Significant Incident Land Impact: Category 4 - No Impact Positional Accuracy: Located by supplier to within 10m Pollutant: Atmospheric Pollutants and Effects: Landfill Odour	A7SE (SW)	566	2	450264 118070
25	Water Abstractions Operator: East Horton Golf Centre Ltd Licence Number: 30/050 Permit Version: 101 Location: Point A At East Horton Farm Authority: Environment Agency, Southern Region Abstraction: Golf Courses: Spray Irrigation - Storage Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Boldly Outlined On Licence Map Authorised Start: 01 November Authorised End: 31 March Permit Start Date: 12th June 2009 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A8SE (S)	255	2	450800 118150
25	Water Abstractions Operator: E & R Bastian T/A East Horto Licence Number: 25.1/67 Permit Version: Not Supplied Location: Berrywood Farm, Bubb Lane, West End, SOUTHAMPTON, Hants, SO30 3HL Authority: Environment Agency, Southern Region Abstraction: Spray Irrigation Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): 126 Yearly Rate (m3): 9091 Details: Hamble Tributary Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A8SE (S)	260	2	450800 118145
25	Water Abstractions Operator: East Horton Golf Centre Ltd Licence Number: 30/050/R01 Permit Version: 1 Location: Point A At East Horton Farm Authority: Environment Agency, Southern Region Abstraction: Golf Courses: Spray Irrigation - Storage Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: East Horton Golf Centre, Eastleigh Authorised Start: 01 November Authorised End: 31 March Permit Start Date: 1st April 2021 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A8SE (S)	262	2	450803 118143



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
25	Water Abstractions Operator: East Horton Golf Centre Ltd Licence Number: 30/054 Permit Version: 1 Location: East Horton Farm, Fair Oak Authority: Environment Agency, Southern Region Abstraction: Golf Courses: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: See Licence Map Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 12th June 2009 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A8SE (S)	305	2	450800 118100
25	Water Abstractions Operator: East Horton Golf Centre Ltd Licence Number: 31/088ca Permit Version: 101 Location: East Horton Farm, Fair Oak Authority: Environment Agency, Southern Region Abstraction: Golf Courses: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): 88 Yearly Rate (m3): 9000 Details: See Licence Map Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 6th September 1999 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A8SE (S)	305	2	450800 118100
25	Water Abstractions Operator: East Horton Golf Centre Ltd Licence Number: 25.1/66 Permit Version: Not Supplied Location: Tributary Of Hamble, East Horton Golf Centre Authority: Environment Agency, Southern Region Abstraction: Spray Irrigation Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): 88 Yearly Rate (m3): 9000 Details: Licence Status: Revoked; Lapsed Or Cancelled Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A8SE (S)	305	2	450800 118100
26	Water Abstractions Operator: East Horton Golf Centre Ltd Licence Number: 30/054 Permit Version: 2 Location: East Horton Farm, Fair Oak Authority: Environment Agency, Southern Region Abstraction: Golf Courses: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Fair Oak, Hampshire Authorised Start: 01 March Authorised End: 31 October Permit Start Date: 19th December 2014 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A8SE (S)	402	2	450949 118030



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: S P Kelly Licence Number: 22.9/107A Permit Version: Not Supplied Location: Low Hill Farm, Fishers Pond Authority: Environment Agency, Southern Region Abstraction: Domestic Use Only Abstraction Type: Not Supplied Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): 500 Details: Additional Purpose: Domestic Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(N)	1230	2	450335 120145
	Water Abstractions Operator: S P Kelly Licence Number: 22.9/107 Permit Version: Not Supplied Location: Low Hill Farm, Fishers Pond Authority: Environment Agency, Southern Region Abstraction: Domestic Use Only Abstraction Type: Not Supplied Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): 500 Details: H5 Chalk Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(N)	1232	2	450330 120145
	Water Abstractions Operator: S P Kelly Licence Number: 11/42/22.9/107 Permit Version: 100 Location: Lowhill Farm, Fishers Pond Authority: Environment Agency, Southern Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: See Licence Map Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 15th April 1994 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(N)	1236	2	450330 120150
	Water Abstractions Operator: Portsmouth Water Ltd Licence Number: 11/42/25.2/50 Permit Version: 102 Location: Lower Upham Authority: Environment Agency, Southern Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: See Licence Map Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 11th June 2009 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A10NE (E)	1497	2	452350 118620



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Portsmouth Water Ltd Licence Number: 11/42/25.2/50 Permit Version: 103 Location: Lower Upham Authority: Environment Agency, Southern Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 1st April 2016 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A10NE (E)	1508	2	452360 118607
	Water Abstractions Operator: N J Emery Esq Licence Number: 11/42/22.9/109 Permit Version: 100 Location: Thistle Ridge Farm, Fishers Pond Authority: Environment Agency, Southern Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: See Licence Map Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 23rd December 1965 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(N)	1639	2	451260 120480
	Water Abstractions Operator: Fishers Pond Ltd Licence Number: So/042/0031/007 Permit Version: 1 Location: Point A, Marwell Manor Farm, Fishers Pond Authority: Environment Agency, Southern Region Abstraction: Aquaculture: Fish Farm/Cress Pond Throughflow Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Bodily Outlined Authorised Start: 01 November Authorised End: 30 April Permit Start Date: 1st April 2021 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(N)	1803	2	450410 120740
	Water Abstractions Operator: Mr J F Paton Licence Number: 31/100 Permit Version: 2 Location: Point A, Marwell Manor Farm, Fishers Pond Authority: Environment Agency, Southern Region Abstraction: Aquaculture: Fish Farm/Cress Pond Throughflow Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Bodily Outlined Authorised Start: 01 November Authorised End: 30 April Permit Start Date: 12th June 2009 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(N)	1803	2	450410 120740



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: V W Hill & Sons Licence Number: 22.9/162 Permit Version: Not Supplied Location: Lower Wangfield Farm Authority: Environment Agency, Southern Region Abstraction: Impounding Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): 0 Yearly Rate (m3): 0 Details: Bow Lake Stream Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(N)	1871	2	450110 120750
	Groundwater Vulnerability Map Combined Classification: Secondary Bedrock Aquifer - High Vulnerability Combined High Vulnerability: Combined Aquifer: Productive Bedrock Aquifer, No Superficial Aquifer Pollutant Speed: Intermediate Bedrock Flow: Mixed Dilution: 300-550 mm/year Baseflow Index: 40-70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	A13SE (SE)	0	4	450695 118680
	Groundwater Vulnerability Map Combined Classification: Unproductive Aquifer (may have productive aquifer beneath) Combined Unproductive Vulnerability: Combined Aquifer: Unproductive Bedrock Aquifer, No Superficial Aquifer Pollutant Speed: Intermediate Bedrock Flow: Mixed Dilution: 300-550 mm/year Baseflow Index: 40-70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	A8NE (S)	0	4	450694 118679
	Groundwater Vulnerability - Soluble Rock Risk None				
	Bedrock Aquifer Designations Aquifer Designation: Unproductive Strata	A8NE (S)	0	4	450694 118679
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A13SE (SE)	0	4	450695 118680
	Superficial Aquifer Designations No Data Available				
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A8SE (SE)	126	2	450880 118305
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A8SE (SE)	136	2	450890 118300
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				
	Flood Defences None				



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
27	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 111.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: East Hampshire Primacy: 1	A8NE (E)	27	5	450876 118662
28	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 9.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: East Hampshire Primacy: 1	A8SE (S)	79	5	450794 118326
29	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 9.7 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: East Hampshire Primacy: 1	A8SE (S)	84	5	450802 118321
30	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 107.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: East Hampshire Primacy: 1	A8SE (S)	88	5	450810 118317
31	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 77.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: East Hampshire Primacy: 1	A8NE (E)	139	5	450990 118653
32	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 233.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: East Hampshire Primacy: 1	A8SE (SE)	154	5	450921 118303
33	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 43.6 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: East Hampshire Primacy: 1	A8NE (E)	173	5	451007 118598
34	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 136.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: East Hampshire Primacy: 1	A8SE (SE)	177	5	450894 118252
35	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 90.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: East Hampshire Primacy: 1	A8NE (E)	191	5	451019 118556



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
36	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 2.0 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: East Hampshire Primacy: 1	A9NW (SE)	223	5	451046 118470
37	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 146.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: East Hampshire Primacy: 1	A9NW (SE)	224	5	451047 118468
38	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 9.7 Watercourse Level: On ground surface Permanent: False Watercourse Name: Not Supplied Catchment Name: Itchen Primacy: 1	A13NW (NW)	226	5	450380 119035
39	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.0 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Itchen Primacy: 1	A13NW (NW)	236	5	450370 119036
40	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 25.3 Watercourse Level: On ground surface Permanent: False Watercourse Name: Not Supplied Catchment Name: Itchen Primacy: 1	A13NW (NW)	239	5	450367 119037
41	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 10.1 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Itchen Primacy: 1	A12NE (NW)	255	5	450345 119024
42	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 32.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: East Hampshire Primacy: 1	A8SE (S)	257	5	450819 118148
43	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 465.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: East Hampshire Primacy: 1	A8SE (S)	257	5	450819 118148
44	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 18.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Itchen Primacy: 1	A12NE (NW)	262	5	450336 119020



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
45	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 354.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Itchen Primacy: 1	A7NE (W)	270	5	450259 118678
46	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 134.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Itchen Primacy: 1	A12NE (NW)	275	5	450331 119043
47	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 38.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: East Hampshire Primacy: 1	A14SW (NE)	276	5	451050 118978
48	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 31.6 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Itchen Primacy: 1	A12NE (NW)	279	5	450318 119018
49	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 5.5 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: East Hampshire Primacy: 1	A8SE (S)	285	5	450840 118122
50	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 41.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: East Hampshire Primacy: 1	A8SE (S)	286	5	450845 118121
51	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.7 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: East Hampshire Primacy: 1	A8SE (S)	286	5	450845 118121
52	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 2.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: East Hampshire Primacy: 1	A8SE (S)	288	5	450849 118120
53	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 35.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: East Hampshire Primacy: 1	A8SE (S)	288	5	450851 118120



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
54	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 178.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: East Hampshire Primacy: 1	A9SW (SE)	296	5	451089 118328
55	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 5.3 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: East Hampshire Primacy: 1	A14SW (NE)	306	5	451089 118979
56	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 9.2 Watercourse Level: On ground surface Permanent: False Watercourse Name: Not Supplied Catchment Name: Itchen Primacy: 1	A12SE (NW)	306	5	450288 119008
57	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 5.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Itchen Primacy: 1	A12SE (NW)	308	5	450284 119002
58	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 51.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: East Hampshire Primacy: 1	A14SW (NE)	309	5	451094 118979
59	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.5 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Itchen Primacy: 1	A12SE (NW)	313	5	450280 119003
60	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 40.4 Watercourse Level: On ground surface Permanent: False Watercourse Name: Not Supplied Catchment Name: Itchen Primacy: 1	A12SE (NW)	315	5	450277 119002
61	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 26.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: East Hampshire Primacy: 1	A8SE (S)	324	5	450867 118086
62	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 28.1 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: East Hampshire Primacy: 1	A8SE (S)	348	5	450885 118066



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
63	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 34.9 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Itchen Primacy: 1	A12SE (NW)	349	5	450239 118986
64	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.5 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: East Hampshire Primacy: 1	A14SW (NE)	350	5	451145 118978
65	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 70.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: East Hampshire Primacy: 1	A14SW (NE)	353	5	451149 118978
66	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 2.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Itchen Primacy: 1	A12SE (NW)	381	5	450211 119005
67	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 14.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Itchen Primacy: 1	A12SE (NW)	382	5	450209 119007
68	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 17.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Itchen Primacy: 1	A12SE (NW)	391	5	450199 118998
69	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 61.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: East Hampshire Primacy: 2	A14SW (NE)	396	5	451228 118915
70	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 264.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Itchen Primacy: 1	A12SE (NW)	404	5	450184 118990
71	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 7.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: East Hampshire Primacy: 1	A14SW (NE)	413	5	451219 118976



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
72	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 4.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: East Hampshire Primacy: 1	A9NW (SE)	429	5	451245 118406
73	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 87.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: East Hampshire Primacy: 1	A9NW (SE)	430	5	451246 118402
74	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 245.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: East Hampshire Primacy: 1	A9NW (E)	466	5	451291 118477
75	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 84.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: East Hampshire Primacy: 1	A9NW (E)	466	5	451291 118477
76	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 389.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: East Hampshire Primacy: 1	A14SW (E)	504	5	451360 118707
77	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 369.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: East Hampshire Primacy: 1	A14SW (E)	504	5	451360 118707
78	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 181.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: East Hampshire Primacy: 1	A18SE (NE)	528	5	450995 119364
79	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 309.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: East Hampshire Primacy: 1	A9NE (E)	546	5	451370 118461
80	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 59.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: East Hampshire Primacy: 1	A14NE (NE)	578	5	451365 119054



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
81	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 19.0 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Itchen Primacy: 1	A7NW (W)	580	5	449940 118565
82	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 37.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: East Hampshire Primacy: 1	A14NE (NE)	582	5	451373 119048
83	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 21.4 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: East Hampshire Primacy: 1	A14NW (NE)	589	5	451291 119179
84	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 105.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: East Hampshire Primacy: 1	A14NW (NE)	589	5	451294 119175
85	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 4.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Itchen Primacy: 1	A12SW (W)	591	5	449964 118857
86	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 175.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: East Hampshire Primacy: 1	A14NW (NE)	592	5	451278 119196
87	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 226.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Itchen Primacy: 1	A12SW (W)	593	5	449961 118854
88	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 6.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Itchen Primacy: 1	A7NW (W)	599	5	449921 118564
89	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 2.3 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: East Hampshire Primacy: 1	A14NW (NE)	600	5	451362 119103



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
90	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 35.7 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Itchen Primacy: 1	A7NW (W)	603	5	449917 118559
91	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 33.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: East Hampshire Primacy: 1	A14NE (NE)	605	5	451408 119028
92	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 60.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: East Hampshire Primacy: 2	A14NE (NE)	618	5	451407 119062
93	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 135.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Itchen Primacy: 1	A7NW (W)	639	5	449882 118563
94	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 846.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: East Hampshire Primacy: 1	A3NW (S)	641	5	450465 117861
95	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 184.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: East Hampshire Primacy: 1	A3NW (S)	641	5	450406 117882
96	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 71.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: East Hampshire Primacy: 1	A19SW (NE)	659	5	451176 119366
97	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 14.1 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: East Hampshire Primacy: 1	A2NE (SW)	670	5	450291 117924
98	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 67.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: East Hampshire Primacy: 1	A2NE (SW)	674	5	450278 117929



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
99	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 65.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: East Hampshire Primacy: 1	A19SW (NE)	675	5	451171 119396
100	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 90.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: East Hampshire Primacy: 1	A14NE (NE)	677	5	451479 119046
101	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 186.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: East Hampshire Primacy: 1	A14NE (NE)	678	5	451462 119084
102	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 333.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: East Hampshire Primacy: 1	A19SW (NE)	680	5	451216 119359
103	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 2.0 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: East Hampshire Primacy: 1	A14SE (E)	683	5	451502 119003
104	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 23.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: East Hampshire Primacy: 1	A14SE (E)	683	5	451503 119001
105	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 157.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: East Hampshire Primacy: 1	A14SE (E)	688	5	451514 118981
106	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 29.9 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Itchen Primacy: 1	A7NW (W)	688	5	449840 118678
107	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 7.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Itchen Primacy: 1	A7NW (W)	689	5	449836 118649



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
108	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 145.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: East Hampshire Primacy: 1	A9SE (SE)	692	5	451493 118300
109	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 7.3 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Itchen Primacy: 1	A7NW (W)	695	5	449829 118645
110	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 30.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Itchen Primacy: 1	A7NW (W)	701	5	449823 118641
111	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 611.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Itchen Primacy: 1	A12NW (NW)	725	5	449956 119301
112	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 10.2 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Itchen Primacy: 1	A7NW (W)	726	5	449796 118627
113	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 15.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Itchen Primacy: 1	A7NW (W)	734	5	449787 118622
114	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 21.9 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Itchen Primacy: 1	A7NW (W)	747	5	449774 118613
115	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 6.1 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: East Hampshire Primacy: 1	A9NE (E)	760	5	451602 118543
116	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 49.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Itchen Primacy: 1	A7NW (W)	761	5	449759 118598



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
117	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 313.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: East Hampshire Primacy: 1	A9NE (E)	766	5	451608 118544
118	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 87.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Itchen Primacy: 1	A7NW (W)	772	5	449748 118554
119	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 57.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Itchen Primacy: 1	A7NW (W)	830	5	449691 118545
120	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 132.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: East Hampshire Primacy: 1	A14NE (NE)	842	5	451571 119225
121	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 27.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Itchen Primacy: 1	A18NW (N)	842	5	450668 119796
122	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 158.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: East Hampshire Primacy: 1	A4SW (S)	842	5	451116 117623
123	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 99.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: East Hampshire Primacy: 1	A14NE (E)	845	5	451662 119035
124	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 37.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Itchen Primacy: 1	A18NW (N)	850	5	450642 119804
125	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 366.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Itchen Primacy: 1	A18NW (N)	862	5	450606 119814



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
126	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 1.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Itchen Primacy: 1	A6NE (W)	883	5	449637 118561
127	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Itchen Primacy: 1	A6NE (W)	884	5	449637 118559
128	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 183.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Itchen Primacy: 1	A6NE (W)	885	5	449635 118558
129	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 14.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Itchen Primacy: 1	A11SE (W)	902	5	449644 118834
130	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 185.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Itchen Primacy: 1	A2NW (SW)	917	5	449927 117875
131	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 357.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: East Hampshire Primacy: 1	A4NE (SE)	919	5	451387 117694
132	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 114.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: East Hampshire Primacy: 1	A19SW (NE)	939	5	451249 119687
133	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 112.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: East Hampshire Primacy: 1	A3SE (S)	939	5	450913 117472
134	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 169.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: East Hampshire Primacy: 1	A19SW (NE)	939	5	451249 119687



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
135	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 70.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Itchen Primacy: 1	A11SE (W)	944	5	449598 118821
136	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 6.1 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: East Hampshire Primacy: 1	A15NW (E)	944	5	451753 119074
137	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 170.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: East Hampshire Primacy: 1	A15NW (E)	950	5	451758 119077
138	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 80.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: East Hampshire Primacy: 1	A14NE (NE)	960	5	451647 119325
139	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 683.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Itchen Primacy: 1	A17NE (N)	989	5	450246 119869
140	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 209.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Itchen Primacy: 1	A17NE (N)	990	5	450250 119871
141	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 110.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: East Hampshire Primacy: 1	A4SW (S)	990	5	451126 117469



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
142	BGS Recorded Landfill Sites Site Name: Knowle Lane Location: FAIR OAK, Hants 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	A8NW (SW)	70	-	450511 118499
143	BGS Recorded Landfill Sites Site Name: Knowle Hill Lane Location: FAIR OAK, Hampshire 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: Good	A13SW (W)	109	-	450418 118691
144	Historical Landfill Sites Licence Holder: M J Passingham Limited Location: Fair Oak, Hampshire Name: Knowle Lane Operator Location: Hope Cottage, Fair Oak, Hampshire Boundary Accuracy: As Supplied Provider Reference: EAHLD20490 First Input Date: 6th January 1972 Last Input Date: Not Supplied Specified Waste: Deposited Waste included Inert, Industrial, Commercial and Household Waste, and Liquid Sludge Type: Waste, and Liquid Sludge EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 1700/9203 BGS Ref: 1494 Other Ref: FEA4, 9/6	A8NW (SW)	7	2	450574 118540
145	Historical Landfill Sites Licence Holder: Winchester Rural District Council Location: Fair Oak, Hampshire Name: Knowlehill Lane Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD20505 First Input Date: 26th July 1966 Last Input Date: Not Supplied Specified Waste: Deposited Waste included Inert, Industrial, Commercial and Household Waste, and Liquid Sludge Type: Waste, and Liquid Sludge EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 1700/9206 BGS Ref: 307 Other Ref: FEA19, EAST 6	A13SW (W)	107	2	450422 118699
146	Historical Landfill Sites Licence Holder: Sunny Bank Tipping Limited Location: Hardings Copse and Scotland Copse, Fair Oak, Hampshire Name: Hardings Copse and Scotland Copse Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD20489 First Input Date: Not Supplied Last Input Date: Not Supplied Specified Waste: Deposited Waste included Inert, Industrial and Commercial Waste Type: Waste, and Liquid Sludge EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: Not Supplied BGS Ref: Not Supplied Other Ref: 9/5, FEA5, FEA3, FEA1, 9/1	A12SE (W)	184	2	450348 118691



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
147	Historical Landfill Sites Licence Holder: Sunny Bank Tipping Limited Location: Mortimers Lane, Fair Oak, Eastleigh, Hampshire Name: Scotland Copse Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD20487 First Input Date: 11th February 1977 Last Input Date: Not Supplied Specified Waste: Deposited Waste included Inert, Industrial and Commercial Waste Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 1700/9001 BGS Ref: Not Supplied Other Ref: 9/1	A7NE (SW)	395	2	450155 118425
148	Historical Landfill Sites Licence Holder: Sunnybank Sand Limited Location: Botley Road, Fair Oak, Hampshire Name: Sunny Bank Sand and Tipping Limited Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD20494 First Input Date: 8th August 1985 Last Input Date: Not Supplied Specified Waste: Deposited Waste included Inert, Industrial, Commercial and Household Waste Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 1700/9015 BGS Ref: Not Supplied Other Ref: 9/15A, FEA8	A7SW (SW)	717	2	449871 118272
149	Licensed Waste Management Facilities (Landfill Boundaries) Name: Fair Oak Landfill Site Licence Number: 10219 Location: Off Mortimers Lane, East Horton, Fair Oak, Hampshire Licence Holder: Sita Southern Limited Authority: Environment Agency - Southern Region, Hampshire and Isle of Wight Area Office Site Category: Other Landfill Sites Taking Special Waste Max Input Rate: Large (Equal to or greater than 75,000 tonnes per year) Licence Status: Inactive Issued: 2nd May 2001 Positional Accuracy: Positioned by the supplier Boundary Accuracy: As Supplied	A8NW (SW)	51	2	450583 118468
150	Licensed Waste Management Facilities (Landfill Boundaries) Name: Fair Oak Landfill Site Licence Number: 10219 Location: Off Mortimers Lane, East Horton, Fair Oak, Hampshire Licence Holder: Sita Southern Limited Authority: Environment Agency - Southern Region, Hampshire and Isle of Wight Area Office Site Category: Other Landfill Sites Taking Special Waste Max Input Rate: Not Supplied Licence Status: Inactive Issued: 2nd May 2001 Positional Accuracy: Positioned by the supplier Boundary Accuracy: As Supplied	A8NW (SW)	51	2	450583 118468
151	Licensed Waste Management Facilities (Landfill Boundaries) Name: Fair Oak Landfill Epr/Bk1244ia Licence Number: 0 Location: OFF MORTIMERS LANE, FAIR OAK, EASTLEIGH, HAMPSHIRE, SO50 7EA Licence Holder: Suez Recycling & Recovery Southern Ltd Authority: Environment Agency - South East Region, Solent & South Downs Area Site Category: Waste Landfilling; >10 T/D with Capacity >25,000T Excluding Inert Waste Max Input Rate: Not Supplied Licence Status: Effective Issued: 26th May 2021 Positional Accuracy: Positioned by the supplier Boundary Accuracy: As Supplied	A8NW (SW)	55	2	450582 118465



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
152	Licensed Waste Management Facilities (Locations) Licence Number: 104656 Location: Knowle Ind Est, Knowle Lane, Fair Oak, Hampshire, SO50 7DZ Operator Name: Parsons Construction Limited Operator Location: Not Supplied Authority: Environment Agency - South East Region, Solent & South Downs Area Site Category: Use of waste in a deposit for recovery op Licence Status: Surrendered Issued: 27th January 2014 Last Modified: 1st June 2017 Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: 19th February 2018 IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A8NW (SW)	77	2	450445 118559
153	Licensed Waste Management Facilities (Locations) Licence Number: 402537 Location: Fair Oak Landfill Site, Mortimers Lane, Fair Oak, East Horton, Hampshire, SO50 7EA Operator Name: Suez Recycling & Recovery Southern Ltd Operator Location: Not Supplied Authority: Environment Agency - South East Region, Solent & South Downs Area Site Category: Landfill Gas Engine (<3 mW) Licence Status: To PPC Issued: 28th May 2015 Last Modified: 2nd February 2018 Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A8SE (S)	148	2	450770 118260
154	Licensed Waste Management Facilities (Locations) Licence Number: 19918 Location: Fair Oak H W R C, Knowle Lane, Fair Oak, Hampshire, SO50 7DZ Operator Name: Veolia E S Hampshire Ltd Operator Location: Not Supplied Authority: Environment Agency - South East Region, Solent & South Downs Area Site Category: Household Waste Amenity Sites Licence Status: Transferred Issued: 1st July 1993 Last Modified: 11th March 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	A8NW (SW)	177	2	450388 118457
155	Licensed Waste Management Facilities (Locations) Licence Number: 19932 Location: 79 Mortimers Lane, Fair Oak, Eastleigh, Hampshire, SO50 7BT Operator Name: R & R Contractors Operator Location: Not Supplied Authority: Environment Agency - South East Region, Solent & South Downs Area Site Category: Household, Commercial And Industrial Transfer Stations Licence Status: Issued Issued: 16th June 1994 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	A13SW (W)	179	2	450372 118797



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
156	Licensed Waste Management Facilities (Locations) Licence Number: 10219 Location: Off Mortimers Lane, East Horton, Fair Oak, Hampshire Operator Name: Sita Southern Ltd Operator Location: Not Supplied Authority: Environment Agency - South East Region, Solent & South Downs Area Site Category: Other Landfill Sites Taking Special Waste Licence Status: To PPC Issued: 2nd May 2001 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: BK1244IA Positional Accuracy: Approximate location provided by supplier	A8SW (S)	326	2	450500 118200
	Local Authority Landfill Coverage Name: Eastleigh Borough Council - Has no landfill data to supply		0	6	450695 118680
	Local Authority Landfill Coverage Name: Hampshire County Council - Had landfill data but passed it to the relevant environment agency		0	7	450695 118680
	Local Authority Landfill Coverage Name: Winchester City Council - Has supplied landfill data		155	8	450919 118302
157	Potentially Infilled Land (Non-Water) Bearing Ref: S Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1987	A3NE (S)	487	-	450899 117927
158	Potentially Infilled Land (Non-Water) Bearing Ref: S Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1987	A3NE (S)	493	-	450933 117928
159	Potentially Infilled Land (Non-Water) Bearing Ref: W Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1987	A7NW (W)	535	-	450000 118450
160	Potentially Infilled Land (Non-Water) Bearing Ref: S Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1987	A3NE (S)	563	-	450895 117849
161	Potentially Infilled Land (Non-Water) Bearing Ref: SE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1987	A4NW (SE)	806	-	451169 117686



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
162	Registered Landfill Sites Licence Holder: M J Passingham Ltd Licence Reference: 9/ 6 Site Location: Knowle Land Sand Pit, Fair Oak, Hampshire Licence Easting: 450450 Licence Northing: 118500 Operator Location: Cintra, Botley Road. Horton Heath, Eastleigh, Hampshire Authority: Environment Agency - Southern Region, Hampshire 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: 13th April 1978 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: Excavated Natural Materials \$ Hardcore And Rubble Sand Prohibited Waste: Contaminated Rubble Notifiable Wastes Poisonous, Noxious, Polluting Wastes Environment Agency Waste N.O.S must give specific authorisation for this waste to be acceptedWaste requires prior approval	A8NW (SW)	102	2	450450 118500
163	Registered Landfill Sites Licence Holder: Hampshire C.C. Licence Reference: 9/ 2? Site Location: Knowle Lane, Fair Oak, Hampshire Licence Easting: 450300 Licence Northing: 118400 Operator Location: The Castle, Winchester, Hampshire Authority: Environment Agency - Southern Region, Hampshire 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 May 1977 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: Old Licence - Wastes Not To Hand	A7NE (SW)	281	2	450300 118400



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
164	Registered Landfill Sites Licence Holder: Sunny Bank Tipping Ltd Licence Reference: 9/ 5 Site Location: Hardings/Scotlands Copse, Fair Oak, Hampshire Licence Easting: 450200 Licence Northing: 118550 Operator Location: Botley Road, Fair Oak, Eastleigh, Hampshire Authority: Environment Agency - Southern Region, Hampshire 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 March 1978 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: Construction And Demolition Wastes Excavated Natural Materials \$ Hardcore And Rubble Inert Waste Non-Haz, Non-Toxic Waste Sand Water Soluble/Soluble Waste Prohibited Waste: Biodegradable/Putrescible Waste Contaminated Rubble Liquid Wastes Notifiable Wastes Environment Agency Waste N.O.S must give specific authorisation for this waste to be acceptedWaste requires prior approval	A7NE (W)	321	2	450200 118550
164	Registered Landfill Sites Licence Holder: Sunny Bank Tipping Ltd Licence Reference: 9/ 1 Site Location: Scotland Copse, Mortimer Lane, Fair Oak, Hampshire Licence Easting: 450200 Licence Northing: 118500 Operator Location: Botley Road, Fair Oak, Eastleigh, Hampshire Authority: Environment Agency - Southern Region, Hampshire 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: 11th February 1977 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: Construction And Demolition Wastes Excavated Natural Materials \$ Hardcore And Rubble Inert Waste Non-Haz, Non-Toxic Waste Water Soluble/Soluble Waste Prohibited Waste: Biodegradable/Putrescible Waste Contaminated Rubble Liquid Wastes Notifiable Wastes Poisonous, Noxious, Polluting Wastes Environment Agency Waste N.O.S must give specific authorisation for this waste to be acceptedWaste requires prior approval	A7NE (W)	329	2	450200 118500



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
165	Registered Landfill Sites Licence Holder: A & J Bull (Southern) Ltd Licence Reference: EAWML10219 Site Location: Fair Oak Landfill Site, off Mortimers Lane, East Horton, FAIR OAK, Hampshire, SO50 7EA Licence Easting: 450500 Licence Northing: 118200 Operator Location: 4 London Wall Buildings, Blomfield Street, LONDON, Greater London, EC2M 5UQ Authority: Environment Agency - Southern Region, Hampshire 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: No known restriction on source of waste Restrictions: Status: Site not yet started Dated: 2nd May 2001 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 Prohibited Waste Asbestos Bearing Waste Contaminated Soils Degradable Commercial Waste (As In Post'98 E.A.Lics & Equivalent To 22.09.02) Degradable Household Waste (As In Post'98 E.A.Lics & Equivalent To 22.09.01) Degradable Industrial Waste (As In Post'98 E.A.Lics & Equivalent To 22.09.03) Inert Materials (As In Post'98 E.A.Lics And Equivalent To 21.00.00) Maximum Waste Permitted By Licence Special Waste - Comprising Dust Producing Waste Liquid / Wet Wastes Material With Any Haz.Code (H1, H2, H3a,H3b,H4,H5,H6,H7,H8,H9,H10,H11,H12,H13,H14) Odour Producing Waste Other Waste / Waste Not Otherwise Specified Waste Containing/Consisting Of List I Substances In Eec Directive 80/68/Eec Waste Containing/Consisting Of List II Substances In Eec Directive 80/68/Eec Waste In Drums	A8SW (S)	326	2	450500 118200



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
166	Registered Landfill Sites Licence Holder: Sunnybank Sand & Tipping Licence Reference: 9/ 15a Site Location: Botley Road, Fair Oak, Hampshire Licence Easting: Not Supplied Licence Northing: Not Supplied Operator Location: As Site Address Authority: Environment Agency - Southern Region, Hampshire 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: 31st July 1981 Preceded By: Not Given Licence: Superseded By: 9/ 15c Licence: Positional Accuracy: Positioned by the supplier Boundary Accuracy: Moderate Authorised Waste: Ceramic Waste Construction And Demolition Wastes Cork Empty Used Containers Excavated Natural Materials \$ Glass/Cullet Mud Other Resins And Polymeric Materials Paper/Cardboard Waste Polymeric Material, Products/Scrap Pottery Making Waste Sawdust/Bark Scrap Rubber (Including Tyres) Wood Waste/Timber Prohibited Waste: Asbestos Contaminated Rubble Hazardous Wastes Liquid Wastes Poisonous, Noxious, Polluting Wastes Sludge Wastes Environment Agency Waste N.O.S Environment Agency must give specific authorisation for this waste to be acceptedWaste requires prior approval	A7SW (SW)	729	2	449876 118233



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
167	Registered Landfill Sites Licence Holder: Sunnybank Sand & Tipping Licence Reference: 9/ 15c Site Location: Sunnybank Sand Ltd, Botley Road, Fair Oak, Hampshire Licence Easting: 449800 Licence Northing: 118200 Operator Location: As Site Address Authority: Environment Agency - Southern Region, Hampshire 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: 25th November 1985 Preceded By: 9/ 15a Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste: Amenity Waste From W.D.A. Ceramics Clays Construction And Demolition Wastes Cork Cullet Empty Containers Enamels Incinerator Residues From W.D.A. Mud Paper/Cardboard/Packaging Polyethylene Pottery,China Prods Of Complete Polymerisation Sand,Chalk,Gravel & Nat.Earth Spoils Sawdust Solid Rubber Including Tyres Wood Prohibited Waste: Asbestos Closed Drums/Cont'Rs If Over 5l Cap. Injurious Or Hazardous Waste Liquids,Sludges,Solid/Liquid Mixtures Poisonous, Noxious, Polluting Wastes Rubble Ex Prems-Cont.Tox./Soluble Chem Environment Agency Waste N.O.S must give specific authorisation for this waste to be acceptedWaste requires prior approval	A7SW (SW)	812	2	449800 118200
168	Registered Waste Transfer Sites Licence Holder: S Grundon (Waste) Ltd Licence Reference: E/ 83 Site Location: Grundon Sand Pit, East Horton Farm, Fair Oak, Hampshire Operator Location: Grundon Estate Office, Grange Lane, Beenham, Berkshire Authority: Environment Agency - Southern Region, Hampshire Area Site Category: Transfer Max Input Rate: Undefined Waste Source: No known restriction on source of waste Restrictions: Licence Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 1st July 1992 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Approximate location provided by supplier Boundary Quality: Not Supplied Authorised Waste: Clinical - As In Wmp 25 Prohibited Waste: Waste N.O.S.	A8NE (S)	0	2	450700 118500



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
169	Registered Waste Transfer Sites Licence Holder: Hopkins Recycling Ltd Licence Reference: EA 011A Site Location: Knowle Lane C.A.Site, Fair Oak, Hampshire Operator Location: Unit 10 Bridge Road, Curbridge, Botley, SOUTHAMPTON, Hampshire, SO30 2HB Authority: Environment Agency - Southern Region, Hampshire Area Site Category: Civic Amenity 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: 18th May 1977 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: Com. Waste Solely For Reuse/Recycling Maximum Waste Permitted By Licence Waste Deposited By Householders Prohibited Waste: Liq.Waste N.O.S. (Exc. Oils For Recyc) Special Wastes N.O.S. (Exc.H'olders) Waste N.O.S.	A8NW (SW)	181	2	450380 118460
170	Registered Waste Transfer Sites Licence Holder: R & R Contractors Licence Reference: EA 089 Site Location: 79 Mortimers Lane, FAIR OAK, Hampshire, SO5 7BT Operator Location: As Site Address Authority: Environment Agency - Southern Region, Hampshire Area Site Category: Transfer 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: 16th June 1994 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: Concr,Brickwk,Mortar,Flint,Rock,Stone Max.Waste Permitted By Licence Sand,Chalk,Grav,Nat.Occ.Earth Spoils Timber Tree Lopp'Gs,Hedge Trimm'Gs,Other Veg. Prohibited Waste: Biodegradable Materials Food Waste Liquid/Slurry/Sludge Wastes Paper/Cardboard/Packaging Waste Special Wastes Waste N.O.S.	A12SE (W)	257	2	450290 118790



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Thames Group	A13SE (SE)	0	1	450695 118680
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SE (SE)	0	1	450695 118680
171	BGS Recorded Mineral Sites Site Name: Knowlehill Copse Sand Pit Location: Fair Oak, Eastleigh, Hampshire Source: British Geological Survey, National Geoscience Information Service Reference: 162072 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Palaeogene Geology: Whitecliff Sand Member Commodity: Sand Positional Accuracy: Located by supplier to within 10m	A8NW (SW)	108	1	450461 118484
172	BGS Recorded Mineral Sites Site Name: Knowlehill Copse Sand Pit Location: Fair Oak, Eastleigh, Hampshire Source: British Geological Survey, National Geoscience Information Service Reference: 162075 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Palaeogene Geology: Whitecliff Sand Member Commodity: Sand Positional Accuracy: Located by supplier to within 10m	A8NW (SW)	139	1	450403 118499
173	BGS Recorded Mineral Sites Site Name: Knowlehill Copse Sand Pit Location: Fair Oak, Eastleigh, Hampshire Source: British Geological Survey, National Geoscience Information Service Reference: 162076 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Palaeogene Geology: Whitecliff Sand Member Commodity: Sand Positional Accuracy: Located by supplier to within 10m	A8NW (SW)	179	1	450522 118363
174	BGS Recorded Mineral Sites Site Name: Fair Oak Sand Location: Fair Oak, Eastleigh, Hampshire Source: British Geological Survey, National Geoscience Information Service Reference: 2164 Type: Opencast Status: Ceased Operator: S. Grundon (Ewelme) Ltd. Operator Location: Not Supplied Periodic Type: Palaeogene Geology: Whitecliff Sand Member Commodity: Sand Positional Accuracy: Located by supplier to within 100m	A8SW (S)	326	1	450500 118200



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
175	BGS Recorded Mineral Sites Site Name: Greenwood Brick Field Location: Fair Oak, Eastleigh, Hampshire Source: British Geological Survey, National Geoscience Information Service Reference: 162068 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Palaeogene Geology: London Clay Formation Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A3NE (S)	485	1	450894 117928
176	BGS Recorded Mineral Sites Site Name: Greenwood Sand Pit Location: Fair Oak, Eastleigh, Hampshire Source: British Geological Survey, National Geoscience Information Service Reference: 162073 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Palaeogene Geology: Durley Sand Member Commodity: Sand Positional Accuracy: Located by supplier to within 10m	A4NW (SE)	811	1	451165 117679
	BGS Measured Urban Soil Chemistry No data available				
	BGS Urban Soil Chemistry Averages No data available				
	Coal Mining Affected Areas In an area that might not be affected by coal mining				
	Non Coal Mining Areas of Great Britain No Hazard				
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	0	1	450695 118680
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A8SE (S)	239	1	450854 118171
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	0	1	450695 118680
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A8NW (W)	136	1	450382 118677
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A8SE (S)	239	1	450854 118171
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	0	1	450695 118680
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	0	1	450695 118680
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A8NE (S)	0	1	450694 118679
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	0	1	450695 118680
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A8SE (S)	239	1	450854 118171
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	0	1	450695 118680



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A8NE (S)	0	1	450694 118679
	Radon Potential - Radon Affected Areas Affected Area: The property is in a Lower probability radon area (less than 1% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	0	1	450695 118680
	Radon Potential - Radon Protection Measures Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	0	1	450695 118680



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
177	Contemporary Trade Directory Entries Name: Parsons Construction Services Ltd Location: Knowle Lane, Horton Heath, Eastleigh, SO50 7DZ Classification: Road Haulage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NW (SW)	37	-	450550 118522
178	Contemporary Trade Directory Entries Name: Drive Personnel Location: Unit 4, East Horton Business Park, Knowle Lane, Horton Heath, Eastleigh, SO50 7DZ Classification: Road Haulage Services Status: Active Positional Accuracy: Automatically positioned to the address	A8NW (W)	53	-	450468 118588
179	Contemporary Trade Directory Entries Name: The Recycling Centre Location: Knowle Lane, Horton Heath, Eastleigh, SO50 7DZ Classification: Recycling Services Status: Active Positional Accuracy: Automatically positioned to the address	A8NW (SW)	178	-	450387 118457
180	Contemporary Trade Directory Entries Name: South Coast Building Group Location: Unit 3c, Deer Park Farm Industrial Estate, Knowle Lane, Horton Heath, Eastleigh, SO50 7DZ Classification: Mechanical Engineers Status: Active Positional Accuracy: Automatically positioned to the address	A7NE (SW)	225	-	450328 118457
181	Contemporary Trade Directory Entries Name: Topmix Mortars Ltd Location: Mortimers La, Fair Oak, Eastleigh, Hampshire, SO50 7EA Classification: Concrete & Mortar Ready Mixed Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A13SE (NE)	228	-	450937 118996
181	Contemporary Trade Directory Entries Name: S Grundon Ltd Location: Mortimers La, Fair Oak, Eastleigh, Hampshire, SO50 7EA Classification: Sand, Gravel & Other Aggregates Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A13SE (NE)	238	-	450950 119001
182	Contemporary Trade Directory Entries Name: C W M Aggregates Ltd Location: 79, Mortimers Lane, Fair Oak, Eastleigh, SO50 7BT Classification: Sand, Gravel & Other Aggregates Status: Active Positional Accuracy: Automatically positioned to the address	A12SE (W)	260	-	450285 118780
182	Contemporary Trade Directory Entries Name: R & R Contractors Location: R and r Contractors, Orchard Close, 79, Mortimers Lane, Fair Oak, SO50 7BT Classification: Marine Engineering Equipment Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A12SE (W)	261	-	450285 118778
182	Contemporary Trade Directory Entries Name: R & R Contractors Location: R and r Contractors, Orchard Close, 79, Mortimers Lane, Fair Oak, SO50 7BT Classification: Marine Engineering Equipment Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A12SE (W)	261	-	450285 118778
182	Contemporary Trade Directory Entries Name: R & R Contractors Location: R and r Contractors, Orchard Close, 79, Mortimers Lane, Fair Oak, SO50 7BT Classification: Marine Engineering Equipment Manufacturers Status: Active Positional Accuracy: Automatically positioned to the address	A12SE (W)	261	-	450285 118778
182	Contemporary Trade Directory Entries Name: Aggregatesales.Com Location: 79, Mortimers Lane, Fair Oak, Eastleigh, Hampshire, SO50 7BT Classification: Sand, Gravel & Other Aggregates Status: Inactive Positional Accuracy: Automatically positioned to the address	A12SE (W)	261	-	450284 118778



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
183	Contemporary Trade Directory Entries Name: M D Truck & Trailer Spares Location: UNIT 2CA, DEER PARK FARM INDUSTRIAL ESTATE, KNOWLE LANE, HORTON HEATH, EASTLEIGH, SO50 7DZ Classification: Commercial Vehicle Servicing, Repairs, Parts & Accessories Status: Active Positional Accuracy: Automatically positioned to the address	A7NE (SW)	273	-	450273 118458
184	Contemporary Trade Directory Entries Name: A F S Haulage Location: Unit 1, Deer Park Farm Industrial Estate, Knowle Lane, Horton Heath, Eastleigh, SO50 7DZ Classification: Road Haulage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NE (SW)	287	-	450308 118381
184	Contemporary Trade Directory Entries Name: Deer Park Joinery Location: Unit 4, Deer Park Farm, Knowle Lane, Horton Heath, Eastleigh, Hampshire, SO50 7DZ Classification: Staircase, Balustrade & Handrail Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NE (SW)	300	-	450303 118368
184	Contemporary Trade Directory Entries Name: I T T Services Location: UNIT 11, DEER PARK FARM INDUSTRIAL ESTATE, KNOWLE LANE, HORTON HEATH, EASTLEIGH, SO50 7DZ Classification: Electricity Generating & Distributing Equipment Status: Active Positional Accuracy: Automatically positioned to the address	A7NE (SW)	303	-	450299 118368
184	Contemporary Trade Directory Entries Name: Power Generation Services Ltd Location: Unit 11, Deer Park Farm Industrial Estate, Knowle Lane, Horton Heath, Eastleigh, SO50 7DZ Classification: Electricity Generating & Distributing Equipment Status: Active Positional Accuracy: Automatically positioned to the address	A7NE (SW)	311	-	450293 118362
184	Contemporary Trade Directory Entries Name: Hopkins Recycling Ltd Location: Dear Park Farm Knowle la, Horton Heath, Eastleigh, Hampshire, SO50 7DX Classification: Recycling Centres Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A7NE (SW)	326	-	450275 118359
185	Contemporary Trade Directory Entries Name: Purus Location: Unit 2a, Deer Park Farm Industrial Estate, Knowle Lane, Horton Heath, Eastleigh, SO50 7PZ Classification: Air Conditioning Equipment & Systems Status: Active Positional Accuracy: Automatically positioned to the address	A7NE (SW)	312	-	450252 118416
185	Contemporary Trade Directory Entries Name: Direct Diesels Ltd Location: Unit 2A, Deer Park Farm Industrial Estate, Knowle Lane, Horton Heath, Eastleigh, Hampshire, SO50 7PZ Classification: Road Haulage Services Status: Active Positional Accuracy: Automatically positioned to the address	A7NE (SW)	315	-	450251 118410
186	Contemporary Trade Directory Entries Name: Jiggins Transport Location: 45, Mortimers Lane, Fair Oak, Eastleigh, Hampshire, SO50 7BH Classification: Road Haulage Services Status: Active Positional Accuracy: Automatically positioned to the address	A7NW (W)	580	-	449948 118678
187	Contemporary Trade Directory Entries Name: Perfect Cleaning Services Location: 16, Michaels Way, Fair Oak, Eastleigh, Hampshire, SO50 7NT Classification: Cleaning Services - Domestic Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NW (W)	587	-	449950 118436



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
188	Contemporary Trade Directory Entries Name: S & H Emery Location: Hall Lands Farm, Hall Lands Lane, Fair Oak, Eastleigh, Hampshire, SO50 7EF Classification: Pet Foods & Animal Feeds Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NW (NW)	632	-	449975 119103
189	Contemporary Trade Directory Entries Name: Smartarse Design Ltd Location: 18, The Beeches, Fair Oak, Eastleigh, Hampshire, SO50 7NS Classification: Car Dealers - Used Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NW (W)	647	-	449896 118401
190	Contemporary Trade Directory Entries Name: Autorola Location: 42, Mortimers Lane, Fair Oak, Eastleigh, Hampshire, SO50 7BD Classification: Car Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NW (W)	750	-	449774 118657
191	Contemporary Trade Directory Entries Name: Greenwood Location: Little Greenwood Farm, Greenwood Lane, Durley, Southampton, SO32 2AP Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A3SE (S)	773	-	450968 117649
192	Contemporary Trade Directory Entries Name: Oscar Pet Foods Chandlers Ford Location: Goater Way, Fair Oak, Eastleigh, Hampshire, SO50 7HT Classification: Pet Foods & Animal Feeds Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A11SE (W)	905	-	449628 118744
193	Contemporary Trade Directory Entries Name: T & M Electrical Contractors Ltd Location: 1A Stubbington Way, Fair Oak, Eastleigh, Hampshire, SO50 7LQ Classification: Electrical Engineers Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A6NE (W)	960	-	449562 118506
194	Contemporary Trade Directory Entries Name: Floor Coverings Southern Location: 7, Reynolds Road, Fair Oak, Eastleigh, SO50 7NA Classification: Carpet & Fabric Proofing Status: Active Positional Accuracy: Automatically positioned to the address	A6NE (W)	966	-	449564 118433
195	Points of Interest - Commercial Services Name: Drive Personnel Location: Unit 4, East Horton Business Park, Knowle Lane, Fair Oak, SO50 7DZ Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A8NW (W)	53	9	450468 118587
196	Points of Interest - Commercial Services Name: The Recycling Centre Location: Household Waste Recycling Centre, Knowle Lane, Fair Oak, SO50 7DZ Category: Recycling Services Class Code: Recycling, Reclamation and Disposal Positional Accuracy: Positioned to address or location	A8NW (SW)	178	9	450386 118457
197	Points of Interest - Commercial Services Name: A F S Haulage Location: Unit 1 Deer Park Farm Industrial Estate, Knowle Lane, Horton Heath, Eastleigh, SO50 7DZ Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A7NE (SW)	288	9	450307 118381
197	Points of Interest - Commercial Services Name: A F S Group Ltd Location: A F S House Deer Park Farm Industrial Estate, Knowle Lane, Horton Heath, Eastleigh, SO50 7PZ Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A7NE (SW)	310	9	450300 118357



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
197	Points of Interest - Commercial Services Name: Direct Diesels Ltd Location: Unit 2a Deer Park Farm Industrial Estate, Knowle Lane, Fair Oak, SO50 7PZ Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A7NE (SW)	312	9	450251 118416
197	Points of Interest - Commercial Services Name: Hopkins Recycling Ltd Location: Unit 1/D Deer Park Farm, Knowle Lane, Horton Heath, Eastleigh, SO50 7DZ Category: Recycling Services Class Code: Recycling, Reclamation and Disposal Positional Accuracy: Positioned to address or location	A7SE (SW)	352	9	450257 118340
198	Points of Interest - Commercial Services Name: J V S Auto Electrical Location: 28 Scotland Close, Fair Oak, SO50 7BQ Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A7NE (W)	475	9	450046 118605
199	Points of Interest - Commercial Services Name: Jiggins Transport Location: 45 Mortimers Lane, Fair Oak, SO50 7BH Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A7NW (W)	580	9	449948 118678
200	Points of Interest - Manufacturing and Production Name: Business Park Location: SO50 Category: Industrial Features Class Code: Business Parks and Industrial Estates Positional Accuracy: Positioned to an adjacent address or location	A8NW (SW)	55	9	450468 118556
200	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A8NW (W)	71	9	450452 118607
200	Points of Interest - Manufacturing and Production Name: Works Location: SO50 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A8NW (W)	76	9	450447 118606
201	Points of Interest - Manufacturing and Production Name: Tank Location: SO50 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A8NW (S)	72	9	450666 118405
202	Points of Interest - Manufacturing and Production Name: Sand Pit Location: SO50 Category: Extractive Industries Class Code: Sand, Gravel and Clay Extraction and Merchants Positional Accuracy: Positioned to an adjacent address or location	A8NW (SW)	127	9	450547 118409
202	Points of Interest - Manufacturing and Production Name: Fair Oak Landfill - Landfill Gas (BEIS) Location: Fair Oak Landfill, East Horten Farm, Mortimer Lane, SO50 Category: Industrial Features Class Code: Energy Production Positional Accuracy: Positioned to an adjacent address or location	A8NW (SW)	129	9	450495 118446
203	Points of Interest - Manufacturing and Production Name: K Cooper Location: Mortimers Lane, Fair Oak, Eastleigh, SO50 7EA Category: Farming Class Code: Livestock Farming Positional Accuracy: Positioned to address or location	A13SW (NW)	159	9	450419 118917
204	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A12SE (W)	218	9	450326 118769



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
204	Points of Interest - Manufacturing and Production Name: Works Location: SO50 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A12SE (W)	223	9	450321 118770
205	Points of Interest - Manufacturing and Production Name: Sand Pit Location: SO50 Category: Extractive Industries Class Code: Sand, Gravel and Clay Extraction and Merchants Positional Accuracy: Positioned to an adjacent address or location	A8NW (SW)	224	9	450472 118344
206	Points of Interest - Manufacturing and Production Name: Deer Park Farm Industrial Estate Location: SO50 Category: Industrial Features Class Code: Business Parks and Industrial Estates Positional Accuracy: Positioned to an adjacent address or location	A8NW (SW)	227	9	450356 118418
206	Points of Interest - Manufacturing and Production Name: Industrial Estate Location: SO50 Category: Industrial Features Class Code: Business Parks and Industrial Estates Positional Accuracy: Positioned to an adjacent address or location	A7NE (SW)	249	9	450315 118434
207	Points of Interest - Manufacturing and Production Name: Sand Pit Location: SO50 Category: Extractive Industries Class Code: Sand, Gravel and Clay Extraction and Merchants Positional Accuracy: Positioned to an adjacent address or location	A8SW (SW)	433	9	450381 118151
208	Points of Interest - Manufacturing and Production Name: S & H Emery Location: Hall Lands Farm, Hall Lands Lane, Fair Oak, Eastleigh, SO50 7EF Category: Farming Class Code: Livestock Farming Positional Accuracy: Positioned to address or location	A12NW (NW)	632	9	449975 119103
209	Points of Interest - Manufacturing and Production Name: J Spreadbury Location: Woodlands, Greenwood Lane, Durley, Southampton, SO32 2AP Category: Farming Class Code: Livestock Farming Positional Accuracy: Positioned to address or location	A9SE (SE)	635	9	451402 118194
210	Points of Interest - Manufacturing and Production Name: H E S Colliver Location: Greenwood Farm, Greenwood Lane, Durley, Southampton, SO32 2AP Category: Farming Class Code: Livestock Farming Positional Accuracy: Positioned to address or location	A3NE (S)	692	9	450831 117713
210	Points of Interest - Manufacturing and Production Name: H E S Colliver Location: Greenwood Farm, Greenwood Lane, Durley, Southampton, SO32 2AP Category: Farming Class Code: Livestock Farming Positional Accuracy: Positioned to address or location	A3NE (S)	692	9	450831 117713
211	Points of Interest - Public Infrastructure Name: Refuse Tip Location: SO50 Category: Infrastructure and Facilities Class Code: Refuse Disposal Facilities Positional Accuracy: Positioned to an adjacent address or location	A8NW (SW)	105	9	450463 118486
211	Points of Interest - Public Infrastructure Name: Public Amenity Location: SO50 Category: Infrastructure and Facilities Class Code: Refuse Disposal Facilities Positional Accuracy: Positioned to an adjacent address or location	A8NW (SW)	183	9	450377 118461
212	Points of Interest - Public Infrastructure Name: C W M Aggregates Ltd Location: 79 Mortimers Lane, Fair Oak, Eastleigh, SO50 7BT Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to address or location	A12SE (W)	261	9	450284 118778



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
213	Points of Interest - Public Infrastructure Name: Slurry Pit Location: SO50 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A12NW (NW)	759	9	449876 119209
214	Points of Interest - Public Infrastructure Name: Refuse Tip Location: SO50 Category: Infrastructure and Facilities Class Code: Refuse Disposal Facilities Positional Accuracy: Positioned to an adjacent address or location	A7SW (SW)	824	9	449784 118204
214	Points of Interest - Public Infrastructure Name: Refuse Tip Location: SO50 Category: Infrastructure and Facilities Class Code: Refuse Disposal Facilities Positional Accuracy: Positioned to an adjacent address or location	A7SW (SW)	825	9	449783 118204
215	Points of Interest - Recreational and Environmental Name: Play Area Location: SO50 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A12SW (W)	838	9	449702 118798
216	Points of Interest - Recreational and Environmental Name: Playground Location: SO50 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A2NW (SW)	972	9	449819 117901



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
217	Ancient Woodland Name: Durley Copse Reference: 1489475 Area(m ²): 87538.32 Type: Plantation on Ancient Woodland	A8SE (S)	375	10	450731 118037
218	Ancient Woodland Name: Not Supplied Reference: 1488093 Area(m ²): 23772.74 Type: Ancient and Semi-Natural Woodland	A7SE (SW)	385	10	450252 118298
219	Ancient Woodland Name: Tippers Copse Reference: 1505449 Area(m ²): 15446.55 Type: Ancient and Semi-Natural Woodland	A18SW (N)	434	10	450550 119375
220	Ancient Woodland Name: Hall Lands Copse Reference: 1487578 Area(m ²): 64916.03 Type: Ancient and Semi-Natural Woodland	A12NE (NW)	560	10	450091 119209
221	Ancient Woodland Name: Park Hills Wood Reference: 1491368 Area(m ²): 74992.55 Type: Plantation on Ancient Woodland	A17SE (N)	711	10	450328 119603
222	Ancient Woodland Name: Park Hills Wood Reference: 1491368 Area(m ²): 263008.47 Type: Ancient and Semi-Natural Woodland	A18SE (N)	742	10	450971 119643
223	Ancient Woodland Name: Greenwood Reference: 1489203 Area(m ²): 261117.5 Type: Plantation on Ancient Woodland	A4NE (SE)	871	10	451412 117781
224	Nitrate Vulnerable Zones Name: Hamble Estuary Eutrophic Nvz (Trac) Description: Eutrophic Water Source: Environment Agency, Head Office	A13SE (SE)	0	4	450695 118680
225	Nitrate Vulnerable Zones Name: Bow Lake Nvz Description: Surface Water Source: Environment Agency, Head Office	A18SW (N)	545	4	450641 119499



Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices Environment Agency - Head Office Eastleigh Borough Council - Environmental Health Department Test Valley Borough Council - Housing and Environmental Health Service Winchester City Council - Environmental Health Department	June 2020 September 2017 September 2017 September 2017	Annually Annual Rolling Update Annual Rolling Update Annual Rolling Update
Discharge Consents Environment Agency - Southern Region	October 2022	Quarterly
Enforcement and Prohibition Notices Environment Agency - Southern Region	March 2013	
Integrated Pollution Controls Environment Agency - Southern Region	January 2009	
Integrated Pollution Prevention And Control Environment Agency - South East Region - Solent & South Downs Area Environment Agency - Southern Region	July 2022 July 2022	Quarterly Quarterly
Local Authority Integrated Pollution Prevention And Control Winchester City Council - Environmental Health Department Eastleigh Borough Council - Environmental Health Department Test Valley Borough Council - Housing and Environmental Health Service	December 2014 September 2014 September 2014	Variable Variable Variable
Local Authority Pollution Prevention and Controls Winchester City Council - Environmental Health Department Eastleigh Borough Council - Environmental Health Department Test Valley Borough Council - Housing and Environmental Health Service	December 2014 September 2014 September 2014	Annual Rolling Update Annual Rolling Update Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements Winchester City Council - Environmental Health Department Eastleigh Borough Council - Environmental Health Department Test Valley Borough Council - Housing and Environmental Health Service	December 2014 September 2014 September 2014	Variable Variable Variable
Nearest Surface Water Feature Ordnance Survey	September 2022	
Pollution Incidents to Controlled Waters Environment Agency - Southern Region	December 1999	
Prosecutions Relating to Authorised Processes Environment Agency - Southern Region	July 2015	
Prosecutions Relating to Controlled Waters Environment Agency - Southern Region	March 2013	
Registered Radioactive Substances Environment Agency - Southern Region	June 2016	As notified
River Quality Environment Agency - Head Office	November 2001	Not Applicable
River Quality Biology Sampling Points Environment Agency - Head Office	April 2012	
River Quality Chemistry Sampling Points Environment Agency - Head Office	April 2012	
Substantiated Pollution Incident Register Environment Agency - South East Region - Solent & South Downs Area Environment Agency - Southern Region - Hampshire and Isle of Wight Area Office Environment Agency - Southern Region - Solent and South Downs	July 2022 July 2022 July 2022	Quarterly Quarterly Quarterly
Water Abstractions Environment Agency - Southern Region	October 2022	Quarterly
Water Industry Act Referrals Environment Agency - Southern Region	October 2017	
Groundwater Vulnerability Map Environment Agency - Head Office	June 2018	As notified



Agency & Hydrological	Version	Update Cycle
Groundwater Vulnerability - Soluble Rock Risk Environment Agency - Head Office	June 2018	As notified
Bedrock Aquifer Designations Environment Agency - Head Office	January 2018	Annually
Superficial Aquifer Designations Environment Agency - Head Office	January 2018	Annually
Source Protection Zones Environment Agency - Head Office	September 2022	Bi-Annually
Extreme Flooding from Rivers or Sea without Defences Environment Agency - Head Office	August 2022	Quarterly
Flooding from Rivers or Sea without Defences Environment Agency - Head Office	August 2022	Quarterly
Areas Benefiting from Flood Defences Environment Agency - Head Office	August 2022	Quarterly
Flood Water Storage Areas Environment Agency - Head Office	August 2022	Quarterly
Flood Defences Environment Agency - Head Office	August 2022	Quarterly
OS Water Network Lines Ordnance Survey	October 2022	Quarterly
Surface Water 1 in 30 year Flood Extent Environment Agency - Head Office	May 2018	Annually
Surface Water 1 in 100 year Flood Extent Environment Agency - Head Office	May 2018	Annually
Surface Water 1 in 1000 year Flood Extent Environment Agency - Head Office	May 2018	Annually
Surface Water Suitability Environment Agency - Head Office	February 2016	Annually
BGS Groundwater Flooding Susceptibility British Geological Survey - National Geoscience Information Service	May 2013	As notified



Waste	Version	Update Cycle
BGS Recorded Landfill Sites British Geological Survey - National Geoscience Information Service	November 2002	As notified
Historical Landfill Sites Environment Agency - Head Office	November 2022	Quarterly
Integrated Pollution Control Registered Waste Sites Environment Agency - Southern Region	January 2009	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries) Environment Agency - South East Region - Solent & South Downs Area Environment Agency - Southern Region - Hampshire and Isle of Wight Area Office Environment Agency - Southern Region - Solent and South Downs	October 2022 October 2022 October 2022	Quarterly Quarterly Quarterly
Licensed Waste Management Facilities (Locations) Environment Agency - South East Region - Solent & South Downs Area Environment Agency - Southern Region - Hampshire and Isle of Wight Area Office Environment Agency - Southern Region - Solent and South Downs	July 2022 July 2022 July 2022	Quarterly Quarterly Quarterly
Local Authority Landfill Coverage Eastleigh Borough Council Hampshire County Council - Minerals and Waste Planning Test Valley Borough Council - Environmental Protection Team Winchester City Council - Environmental Health Department	February 2003 February 2003 February 2003 February 2003	Not Applicable Not Applicable Not Applicable Not Applicable
Local Authority Recorded Landfill Sites Eastleigh Borough Council Hampshire County Council - Minerals and Waste Planning Test Valley Borough Council - Environmental Protection Team Winchester City Council - Environmental Health Department	October 2018 October 2018 October 2018 October 2018	
Potentially Infilled Land (Non-Water) Landmark Information Group Limited	December 1999	Not Applicable
Potentially Infilled Land (Water) Landmark Information Group Limited	December 1999	
Registered Landfill Sites Environment Agency - Southern Region - Hampshire Area Environment Agency - Southern Region - Solent and South Downs	March 2006 March 2006	Not Applicable Not Applicable
Registered Waste Transfer Sites Environment Agency - Southern Region - Hampshire Area Environment Agency - Southern Region - Solent and South Downs	April 2018 April 2018	
Registered Waste Treatment or Disposal Sites Environment Agency - Southern Region - Hampshire Area Environment Agency - Southern Region - Solent and South Downs	June 2015 June 2015	



Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH) Health and Safety Executive	January 2022	Bi-Annually
Explosive Sites Health and Safety Executive	March 2017	Annually
Notification of Installations Handling Hazardous Substances (NIHS) Health and Safety Executive	August 2001	
Planning Hazardous Substance Enforcements Eastleigh Borough Council Hampshire County Council - Minerals and Waste Planning Test Valley Borough Council - Environmental Protection Team Winchester City Council - Planning Department	February 2016 February 2016 November 2015 October 2015	Variable Variable Variable Variable
Planning Hazardous Substance Consents Eastleigh Borough Council Hampshire County Council - Minerals and Waste Planning Test Valley Borough Council - Environmental Protection Team Winchester City Council - Planning Department	February 2016 February 2016 November 2015 October 2015	Variable Variable Variable Variable
Geological	Version	Update Cycle
BGS 1:625,000 Solid Geology British Geological Survey - National Geoscience Information Service	January 2009	As notified
BGS Estimated Soil Chemistry British Geological Survey - National Geoscience Information Service	December 2015	As notified
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	November 2022	Bi-Annually
CBSCB Compensation District Cheshire Brine Subsidence Compensation Board (CBSCB) Cheshire Brine Subsidence Compensation Board (CBSCB)	August 2011 November 2020	As notified
Coal Mining Affected Areas The Coal Authority - Property Searches	March 2014	Annual Rolling Update
Mining Instability Ove Arup & Partners	June 1998	Not Applicable
Non Coal Mining Areas of Great Britain British Geological Survey - National Geoscience Information Service	May 2015	Not Applicable
Potential for Collapsible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	April 2020	As notified
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	As notified
Radon Potential - Radon Affected Areas British Geological Survey - National Geoscience Information Service	September 2022	Annually
Radon Potential - Radon Protection Measures British Geological Survey - National Geoscience Information Service	September 2022	Annually



Industrial Land Use	Version	Update Cycle
Contemporary Trade Directory Entries Thomson Directories	October 2022	Quarterly
Fuel Station Entries Catalist Ltd - Experian	August 2022	Quarterly
Gas Pipelines National Grid	October 2021	Bi-Annually
Points of Interest - Commercial Services PointX	December 2022	Quarterly
Points of Interest - Education and Health PointX	December 2022	Quarterly
Points of Interest - Manufacturing and Production PointX	December 2022	Quarterly
Points of Interest - Public Infrastructure PointX	December 2022	Quarterly
Points of Interest - Recreational and Environmental PointX	December 2022	Quarterly
Underground Electrical Cables National Grid	May 2021	Bi-Annually



Sensitive Land Use	Version	Update Cycle
Ancient Woodland Natural England	February 2021	Bi-Annually
Areas of Adopted Green Belt Eastleigh Borough Council South Downs National Park Test Valley Borough Council - Environmental Protection Team Winchester City Council	July 2022 July 2022 July 2022 July 2022	Quarterly Quarterly Quarterly Quarterly
Areas of Unadopted Green Belt Eastleigh Borough Council South Downs National Park Test Valley Borough Council - Environmental Protection Team Winchester City Council	July 2022 July 2022 July 2022 July 2022	Quarterly Quarterly Quarterly Quarterly
Areas of Outstanding Natural Beauty Natural England	August 2022	Bi-Annually
Environmentally Sensitive Areas Natural England	January 2017	
Forest Parks Forestry Commission	April 1997	Not Applicable
Local Nature Reserves Natural England	February 2021	Bi-Annually
Marine Nature Reserves Natural England	July 2019	Bi-Annually
National Nature Reserves Natural England	January 2021	Bi-Annually
National Parks Natural England	February 2018	Bi-Annually
Nitrate Sensitive Areas Natural England	April 2016	Not Applicable
Nitrate Vulnerable Zones Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA) Environment Agency - Head Office	April 2016 June 2017	Bi-Annually
Ramsar Sites Natural England	August 2020	Bi-Annually
Sites of Special Scientific Interest Natural England	February 2021	Bi-Annually
Special Areas of Conservation Natural England	July 2020	Bi-Annually
Special Protection Areas Natural England	February 2021	Bi-Annually



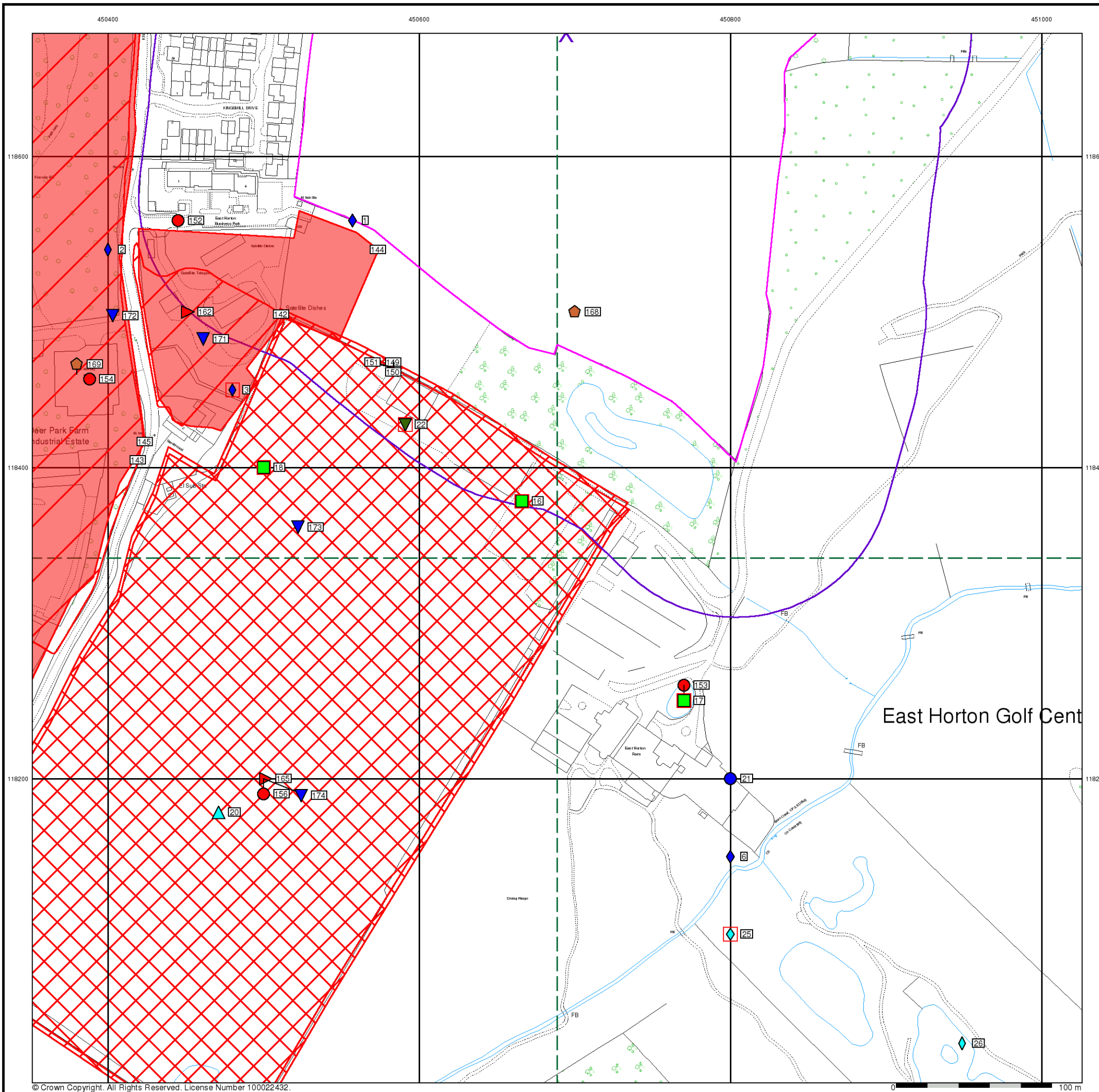
A selection of organisations who provide data within this report

Data Supplier	Data Supplier Logo
Ordnance Survey	
Environment Agency	
Scottish Environment Protection Agency	
The Coal Authority	
British Geological Survey	 British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL
Centre for Ecology and Hydrology	 Centre for Ecology & Hydrology NATURAL ENVIRONMENT RESEARCH COUNCIL
Natural Resources Wales	
Scottish Natural Heritage	
Natural England	
Public Health England	
Ove Arup	
Stantec UK Ltd	



Contact	Name and Address	Contact Details
1	British Geological Survey - Enquiry Service British Geological Survey, Environmental Science Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
2	Environment Agency - National Customer Contact Centre (NCCC) PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 03708 506 506 Email: enquiries@environment-agency.gov.uk
3	Eastleigh Borough Council - Environmental Health Department Civic Offices, Leigh Road, Eastleigh, Hampshire, SO50 9YN	Telephone: 023 80622302 Fax: 02380 688302 Website: www.eastleigh.gov.uk
4	Environment Agency - Head Office Rio House, Waterside Drive, Aztec West, Almondsbury, Bristol, Avon, BS32 4UD	Telephone: 01454 624400 Fax: 01454 624409
5	Ordnance Survey Adanac Drive, Southampton, Hampshire, SO16 0AS	Telephone: 03456 05 05 05 Email: customerservices@ordnancesurvey.co.uk Website: www.ordnancesurvey.gov.uk
6	Eastleigh Borough Council Civic Offices, Leigh Road, Eastleigh, Hampshire, SO50 9YN	Telephone: 02380 688000 Fax: 02380 688261 Website: www.eastleigh.gov.uk
7	Hampshire County Council - Minerals and Waste Planning Room 130, Ashburton Court West, The Castle, Winchester, Hampshire, SO23 8UD	Telephone: 01962 841841 Fax: 01962 847055 Website: www.hants.gov.uk
8	Winchester City Council - Environmental Health Department City Offices, Colebrook Street, Winchester, Hampshire, SO23 9LJ	Telephone: 01962 848519 Fax: 01962 849101 Website: www.winchester.gov.uk
9	PointX 7 Abbey Court, Eagle Way, Sowton, Exeter, Devon, EX2 7HY	Website: www.pointx.co.uk
10	Natural England County Hall, Spetchley Road, Worcester, WR5 2NP	Telephone: 0300 060 3900 Email: enquiries@naturalengland.org.uk Website: www.naturalengland.org.uk
-	Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@phe.gov.uk Website: www.ukradon.org
-	Landmark Information Group Limited 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.



General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Map ID
- Several of Types at Location
- Pylon
- Overhead Transmission Line

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
- Potentially Infilled Land (Non-water)
- Potentially Infilled Land (Non-water)
- Potentially Infilled Land (Non-water)
- Potentially Infilled Land (Water)
- Potentially Infilled Land (Water)
- Potentially Infilled Land (Water)
- 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

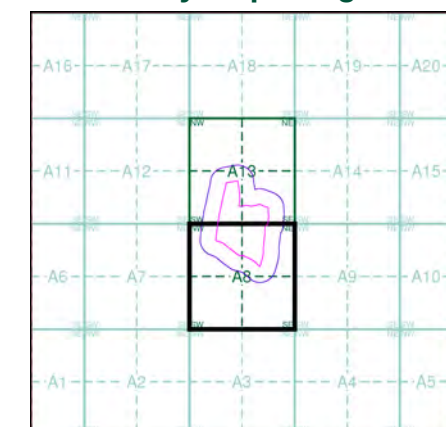
Hazardous Substances

- COMAH Site
- Explosive Site
- NIHHS Site
- Planning Hazardous Substance Consent
- Planning Hazardous Substance Enforcement
- BGS Recorded Mineral Site

Geological

- BGS Recorded Mineral Site

Site Sensitivity Map - Segment A8



Order Details

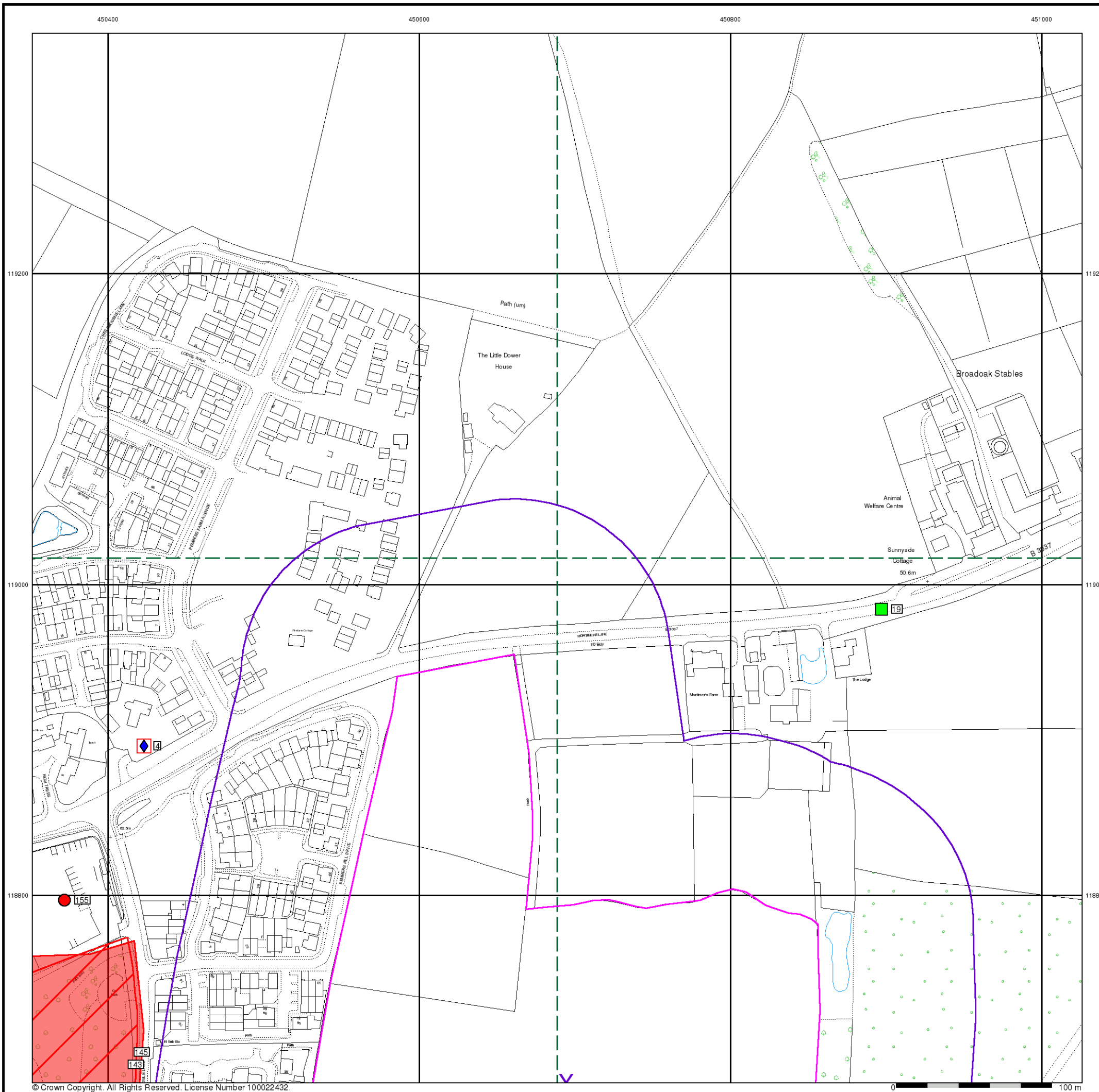
Order Number: 304784389_1_1
Customer Ref: GE21215
National Grid Reference: 450690, 118680
Slice: A
Site Area (Ha): 10.97
Plot Buffer (m): 100

Site Details

Site at 450680, 118690

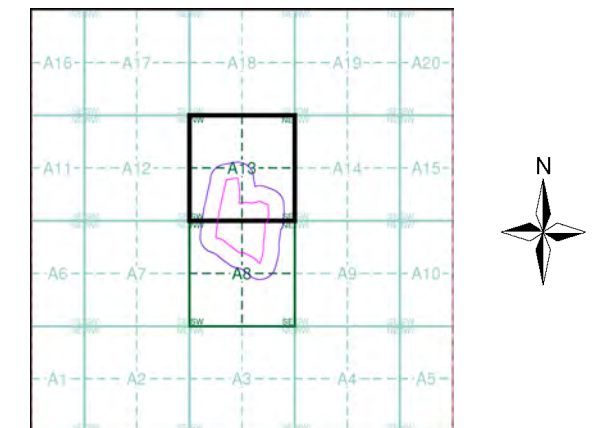


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Fax: 0844 844 9951
Web: www.envirocheck.co.uk



- General**
- Specified Site
 - Specified Buffer(s)
 - Bearing Reference Point
 - Map ID
 - Several of Types at Location
 - Pylon
 - Overhead Transmission Line
- 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
 - Local Authority Pollution Prevention and Control Enforcement
 - Pollution Incident to Controlled Waters
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 - River Quality Sampling Point
 - Substantiated Pollution Incident Register
 - Water Abstraction
 - Water Industry Act Referral
- Hazardous Substances**
- COMAH Site
 - Explosive Site
 - NIHHS Site
 - Planning Hazardous Substance Consent
 - Planning Hazardous Substance Enforcement
- Geological**
- BGS Recorded Mineral Site
- 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
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 - Local Authority Recorded Landfill Site
 - Potentially Infilled Land (Non-water)
 - Potentially Infilled Land (Non-water)
 - Potentially Infilled Land (Water)
 - Potentially Infilled Land (Water)
 - Potentially Infilled Land (Water)
 - 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

Site Sensitivity Map - Segment A13

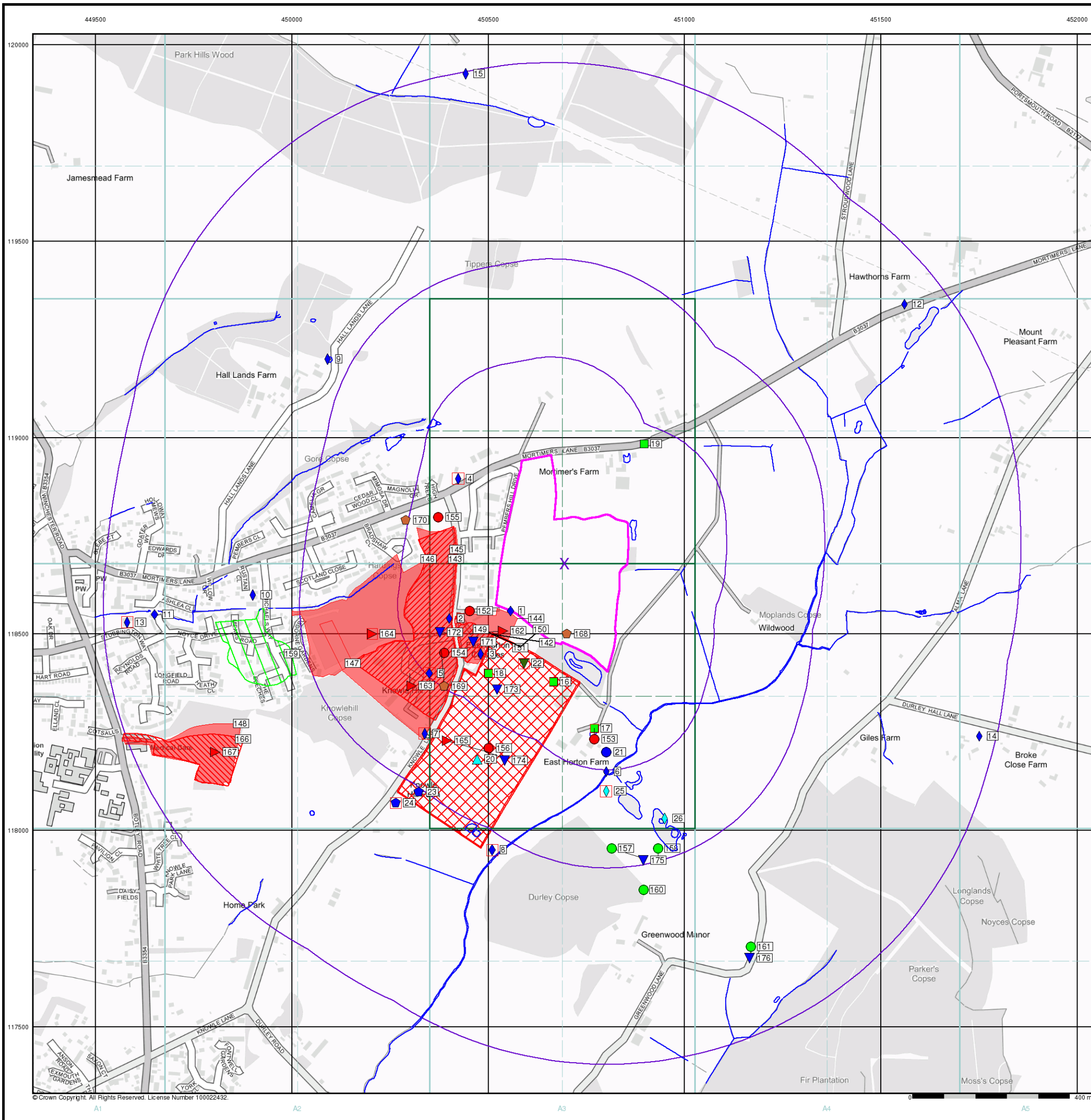


Order Details

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Customer Ref: GE21215
National Grid Reference: 450690, 118680
Slice: A
Site Area (Ha): 10.97
Plot Buffer (m): 100

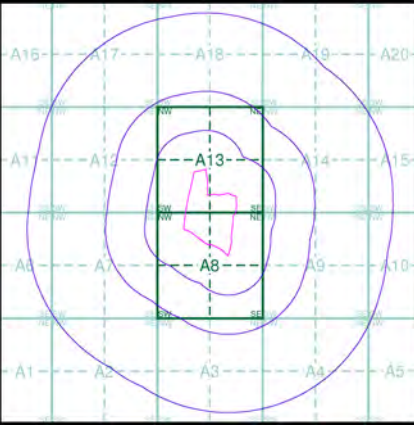
Site Details

Site at 450680, 118690



- 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
 - Local Authority Pollution Prevention and Control Enforcement
 - Pollution Incident to Controlled Waters
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 - Registered Radioactive Substance
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 - River Quality Sampling Point
 - Substantiated Pollution Incident Register
 - Water Abstraction
 - Water Industry Act Referral
- Waste**
- BGS Recorded Landfill Site (Location)
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 - EA Historic Landfill (Buffered Point)
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 - Potentially Infilled Land (Non-water)
 - Potentially Infilled Land (Water)
 - Potentially Infilled Land (Water)
 - Potentially Infilled Land (Water)
 - 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

Site Sensitivity Map - Slice A

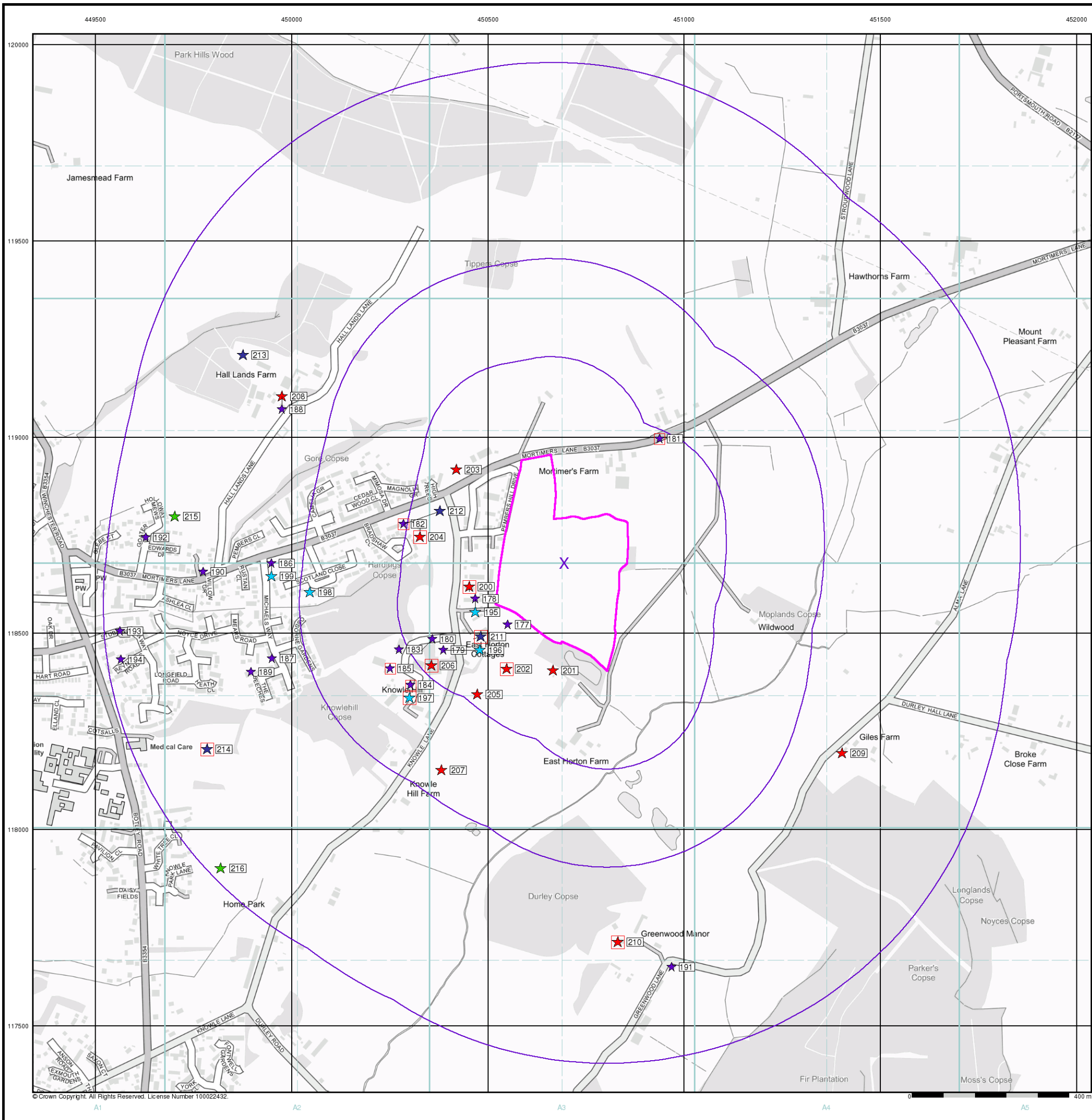


Order Details

Order Number: 304784389_1_1
Customer Ref: GE21215
National Grid Reference: 450690, 118680
Slice: A
Site Area (Ha): 10.97
Search Buffer (m): 1000

Site Details

Site at 450680, 118690



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Geo-Environmental Industrial Land Use Map

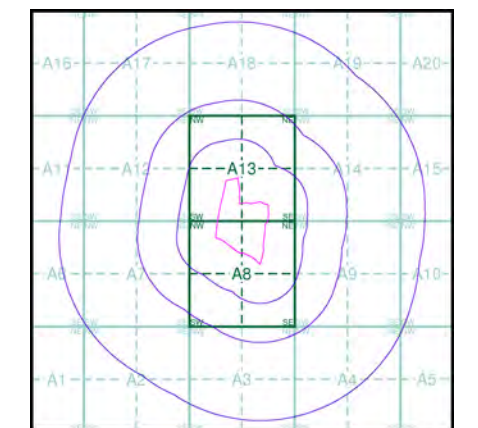
General

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

Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry
- Gas Pipeline
- Points of Interest - Commercial Services
- Points of Interest - Education and Health
- Points of Interest - Manufacturing and Production
- Points of Interest - Public Infrastructure
- Points of Interest - Recreational and Environmental
- Underground Electrical Cables

Industrial Land Use Map - Slice A



Order Details

Order Number: 304784389_1_1
 Customer Ref: GE21215
 National Grid Reference: 450690, 118680
 Slice: A
 Site Area (Ha): 10.97
 Search Buffer (m): 1000

Site Details

Site at 450680, 118690



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Geo-Environmental

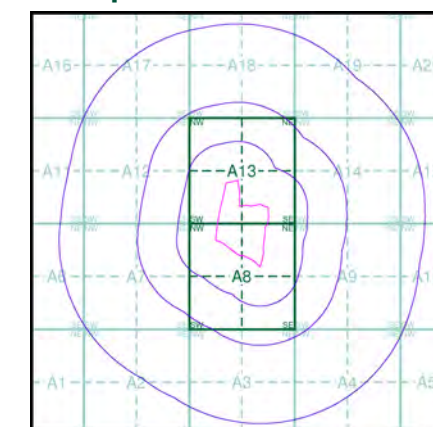
General

- 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

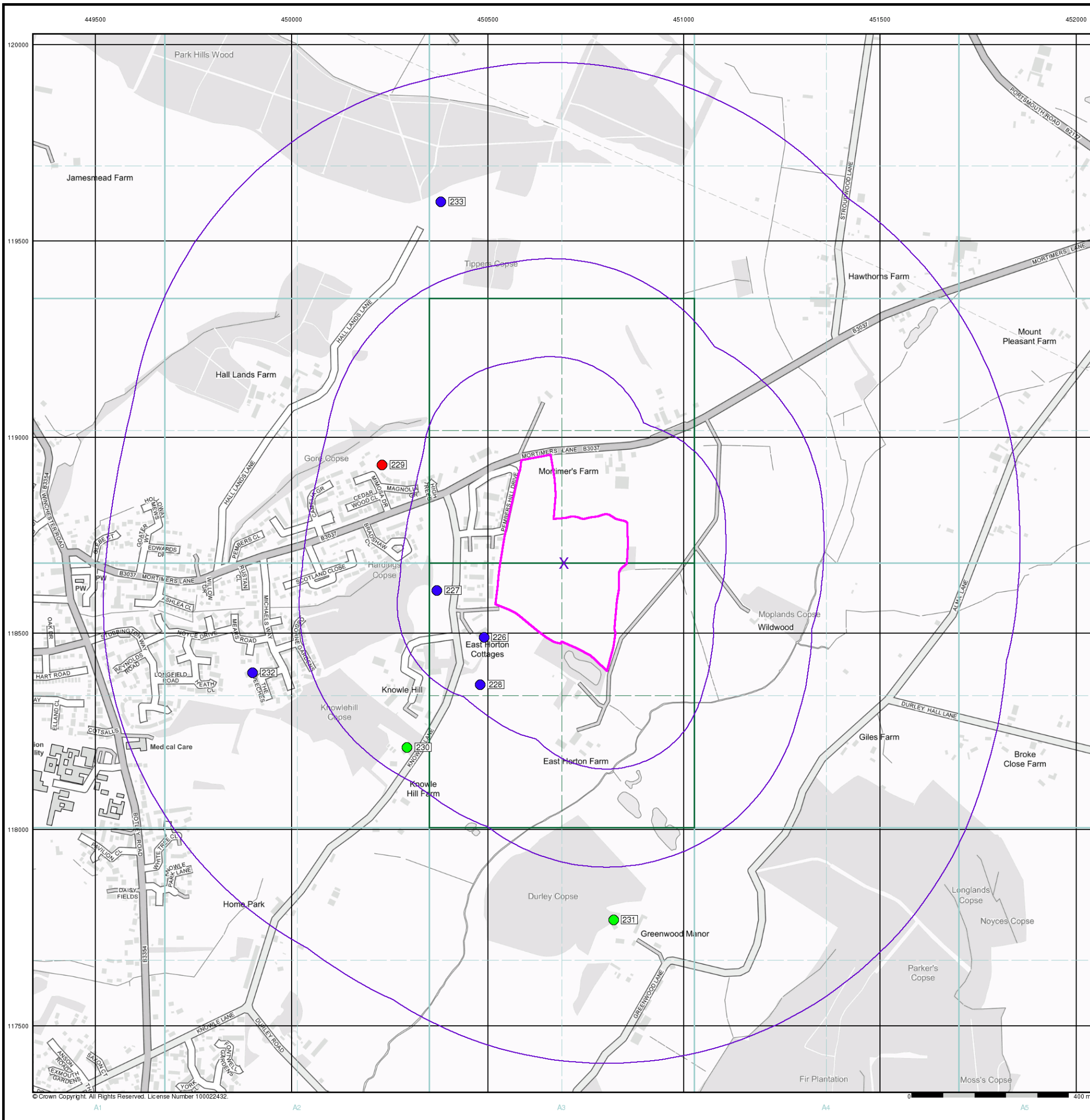
Order Number: 304784389_1_1
Customer Ref: GE21215
National Grid Reference: 450690, 118680
Slice: A
Site Area (Ha): 10.97
Search Buffer (m): 1000

Site Details

Site at 450680, 118690

Landmark
INFORMATION GROUP

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



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Geo-Environmental

General

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

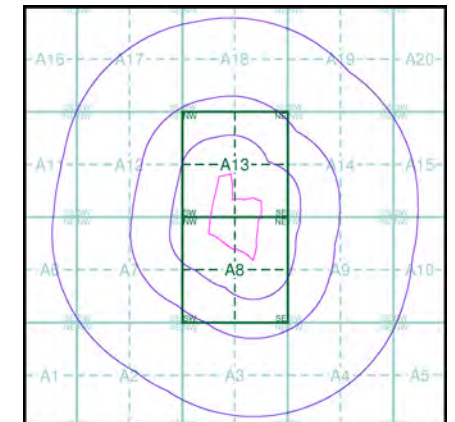
Agency and Hydrological (Boreholes)

- 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.

Borehole Map - Slice A



Order Details

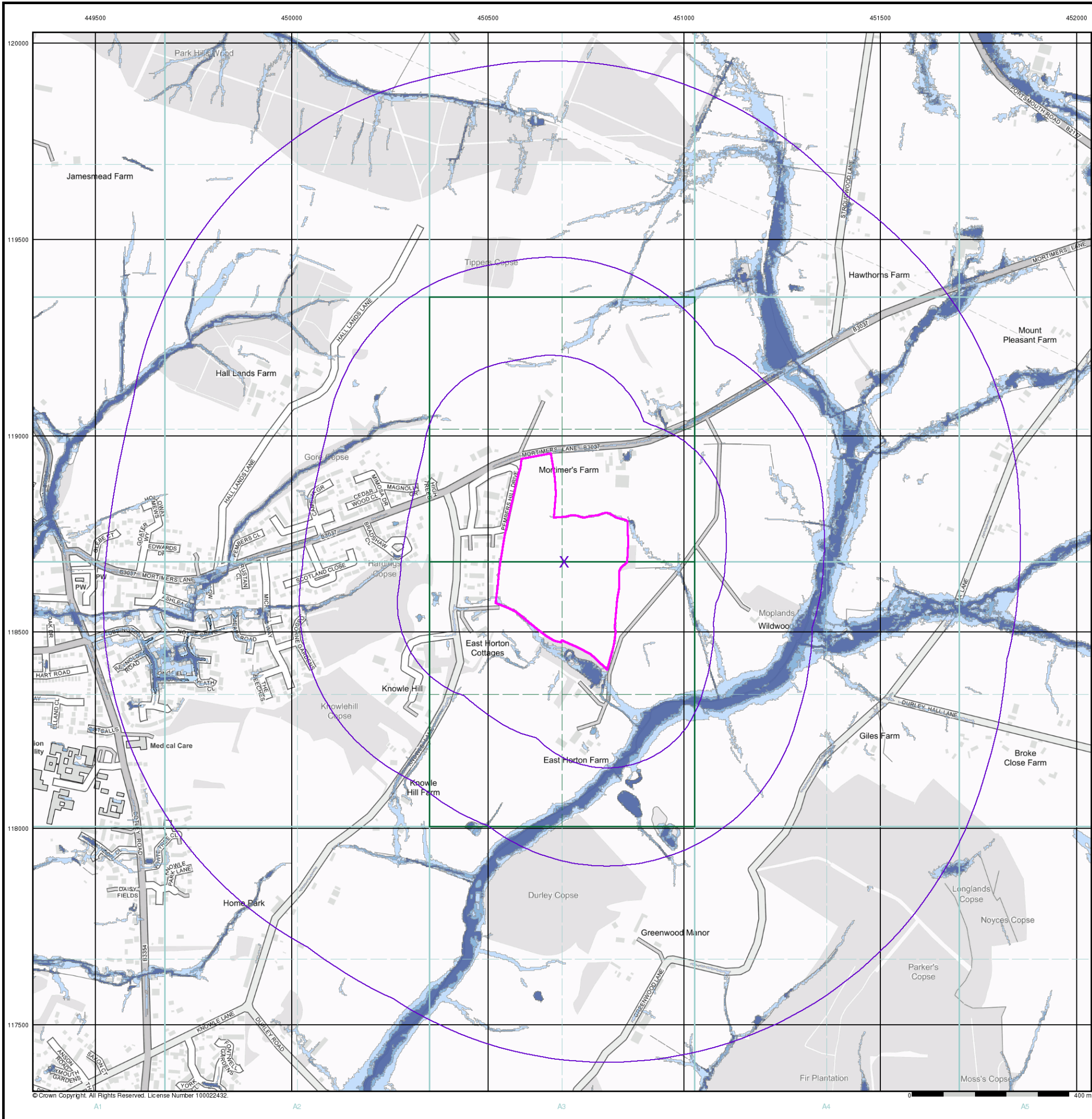
Order Number: 304784389_1_1
Customer Ref: GE21215
National Grid Reference: 450690, 118680
Slice: A
Site Area (Ha): 10.97
Search Buffer (m): 1000

Site Details

Site at 450680, 118690



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General

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

Risk of Flooding from Surface Water

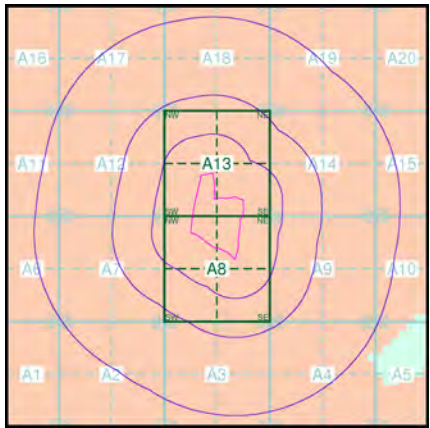
-  High - 30 Year Return
-  Medium - 100 Year Return
-  Low - 1000 Year Return

Suitability

See the suitability map below

-  National to county
-  County to town
-  Town to street
-  Street to parcels of land
-  Property

EANRW Suitability Map - Slice A

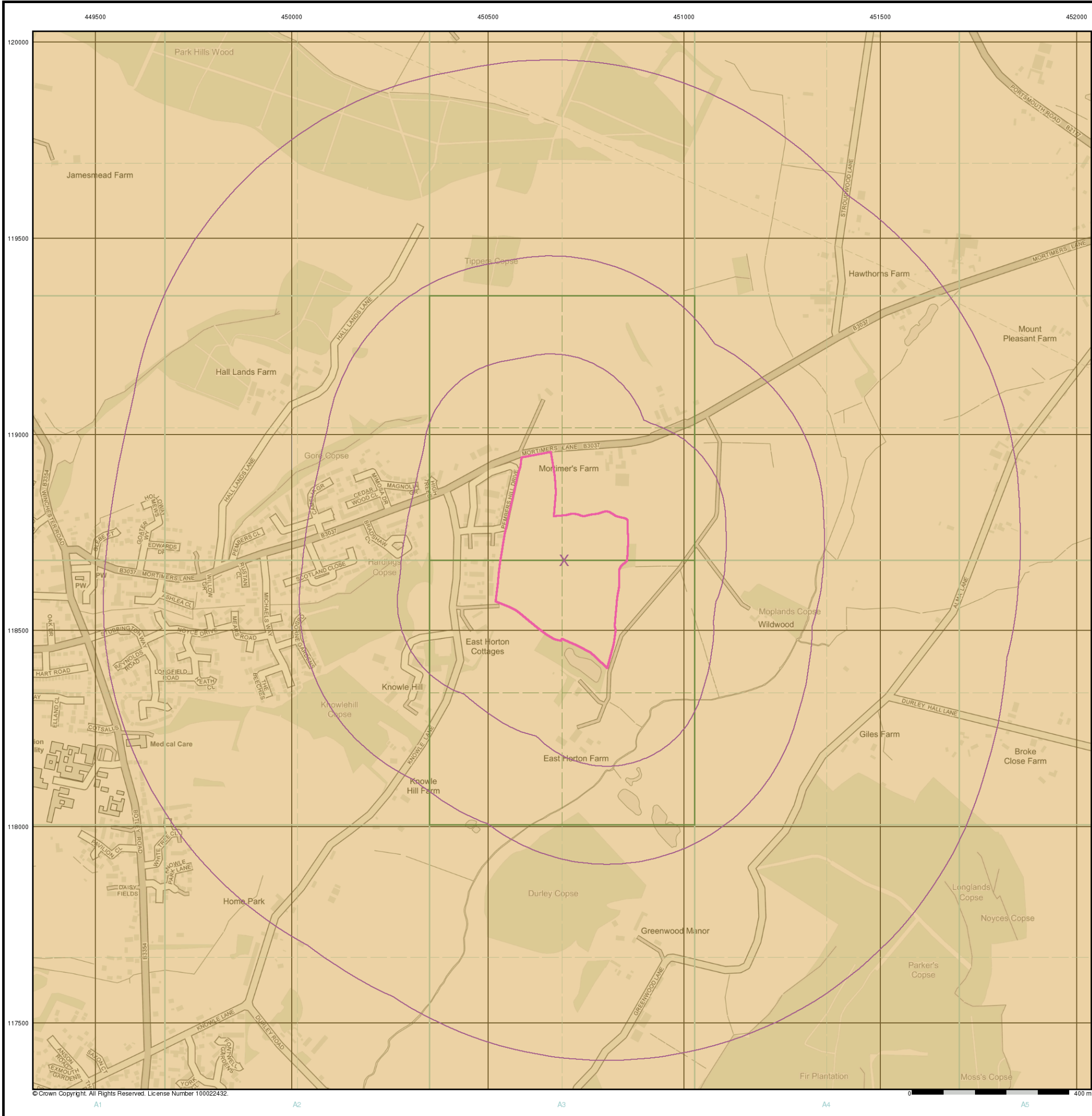


Order Details

Order Number: 304784389_1_1
Customer Ref: GE21215
National Grid Reference: 450690, 118680
Slice: A
Site Area (Ha): 10.97
Search Buffer (m): 1000

Site Details

Site at 450680, 118690

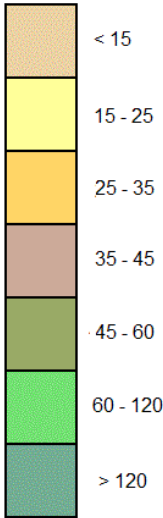


General

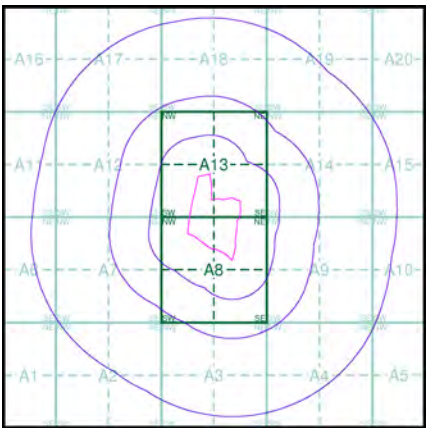
 Specified Site  Specified Buffer(s)  Bearing Reference Point

Estimated Soil Chemistry Arsenic

Arsenic Concentrations mg/kg



Estimated Soil Chemistry Arsenic - Slice A

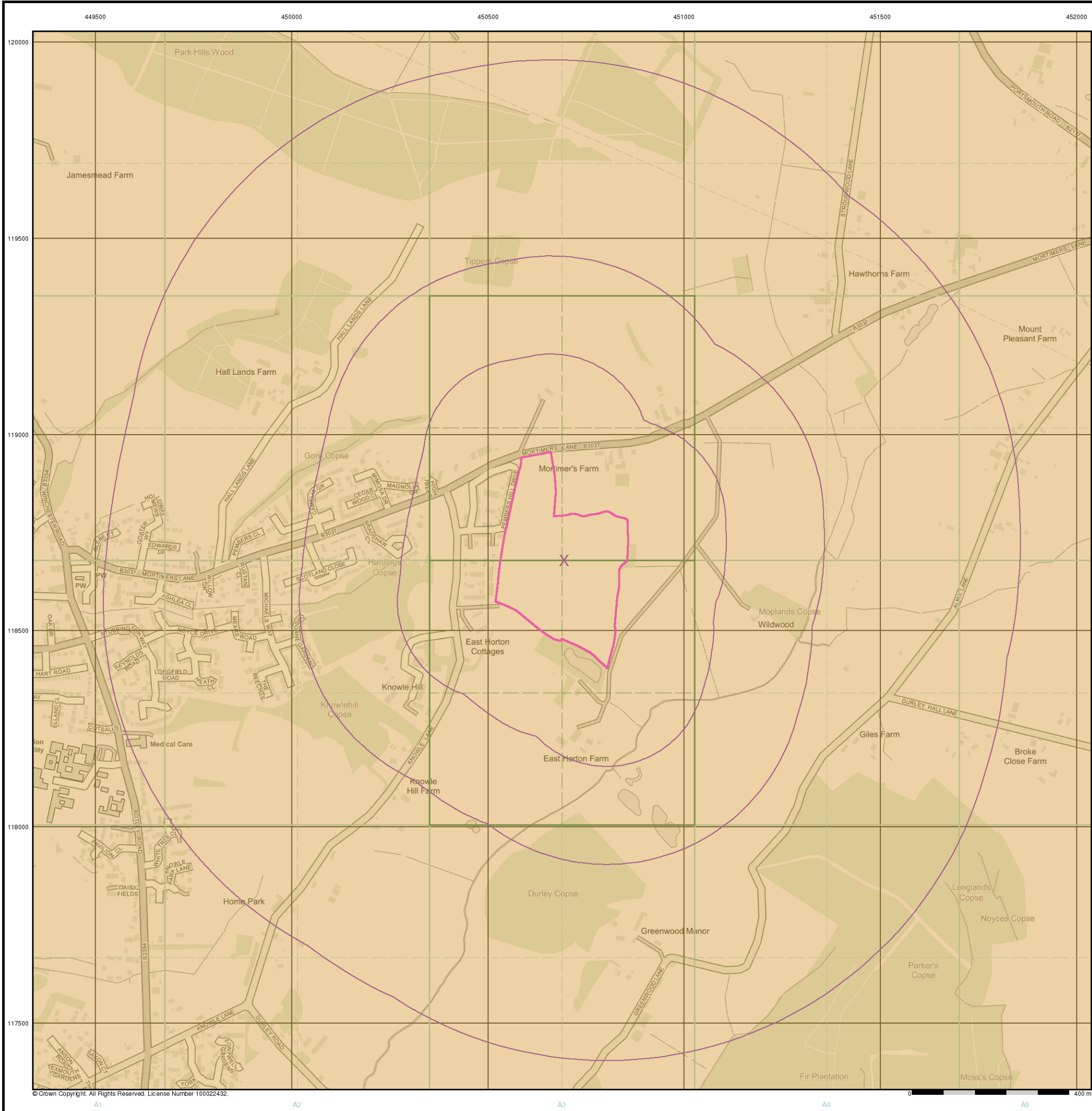


Order Details

Order Details: 304784389_1_1
Customer Ref: GE21215
National Grid Reference: 450690, 118680
Slice: A
Site Area (Ha): 10.97
Search Buffer (m): 1000

Site Details

Site at 450680, 118690

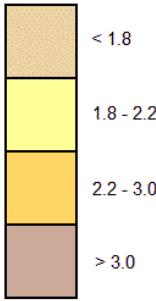


General

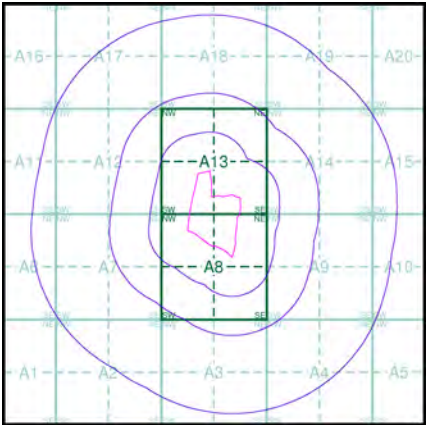
 Specified Site  Specified Buffer(s)  Bearing Reference Point

Estimated Soil Chemistry Cadmium

Cadmium Concentrations mg/kg



Estimated Soil Chemistry Cadmium - Slice A

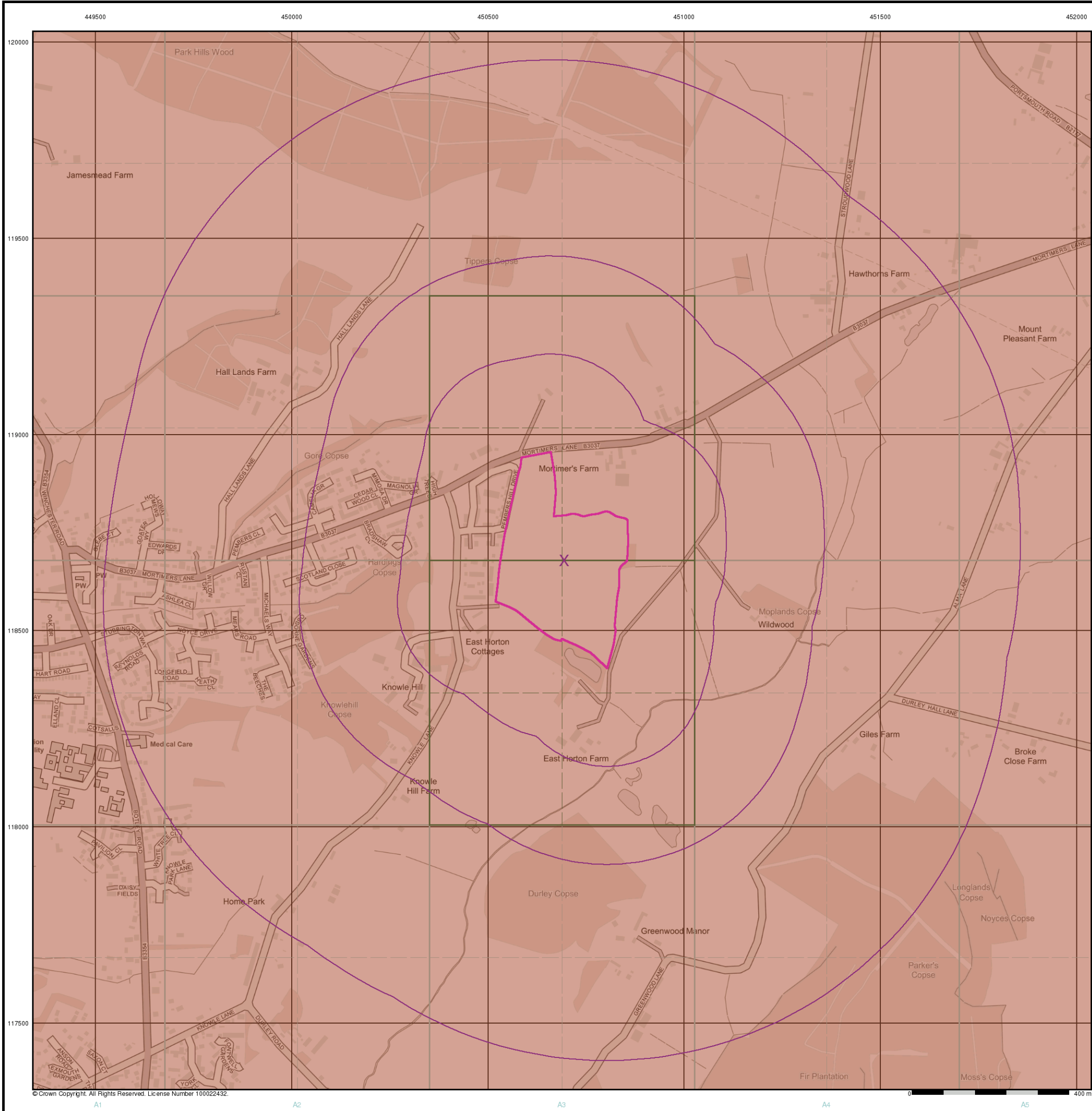


Order Details

Order Details: 304784389_1_1
Customer Ref: GE21215
National Grid Reference: 450690, 118680
Slice: A
Site Area (Ha): 10.97
Search Buffer (m): 1000

Site Details

Site at 450680, 118690

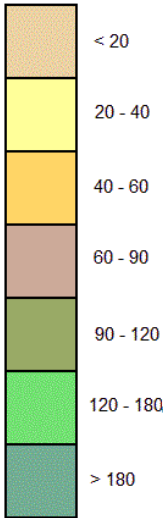


General

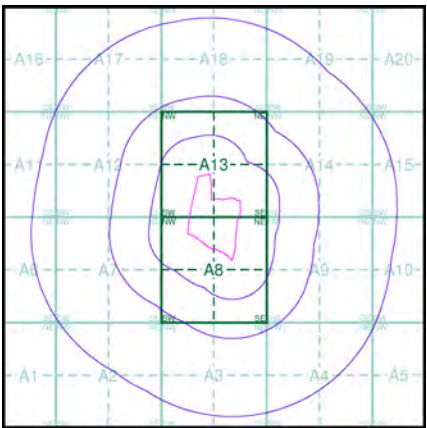
 Specified Site  Specified Buffer(s)  Bearing Reference Point

Estimated Soil Chemistry Chromium

Chromium Concentrations mg/kg



Estimated Soil Chemistry Chromium - Slice A

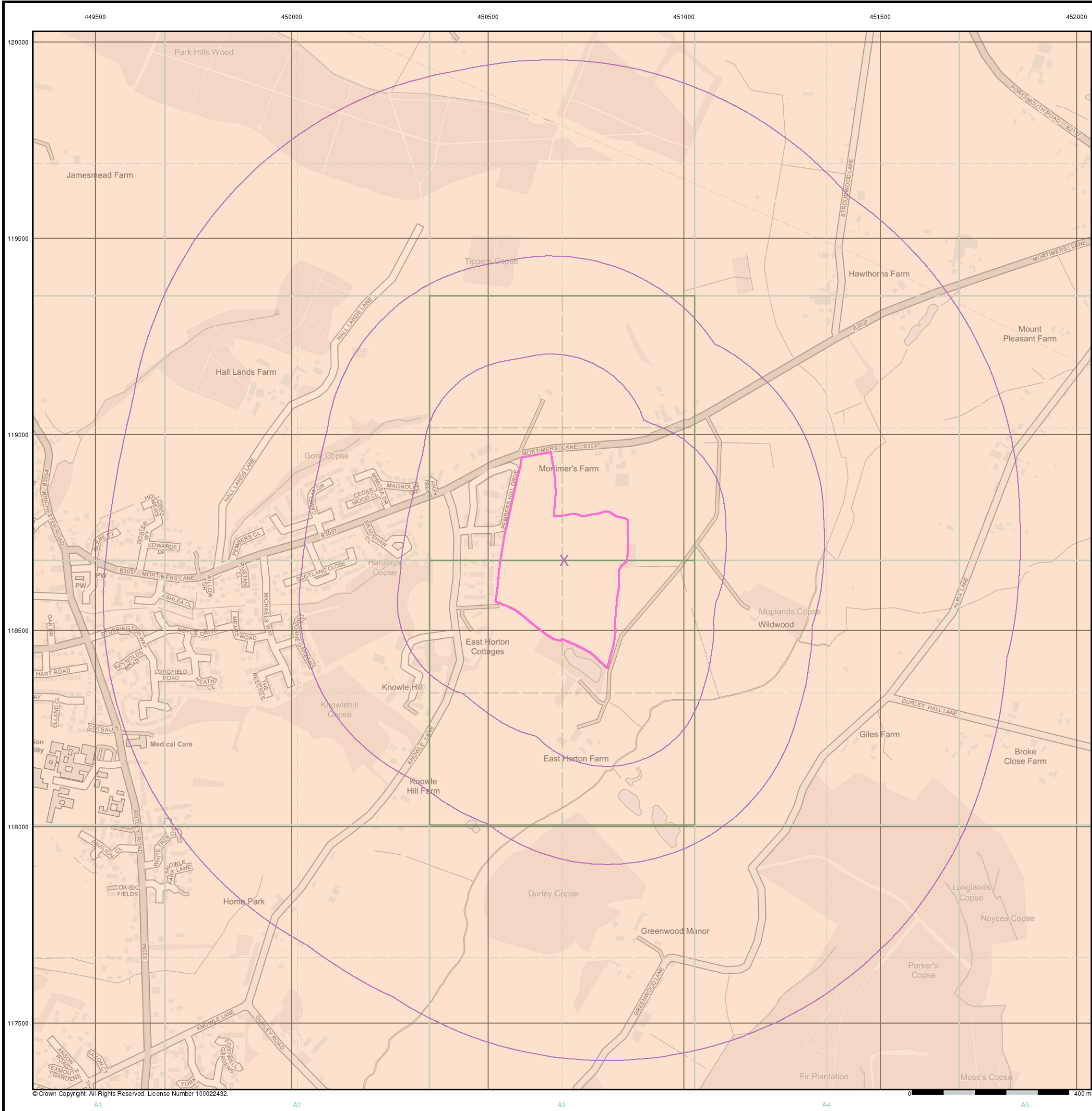


Order Details

Order Details: 304784389_1_1
Customer Ref: GE21215
National Grid Reference: 450690, 118680
Slice: A
Site Area (Ha): 10.97
Search Buffer (m): 1000

Site Details

Site at 450680, 118690



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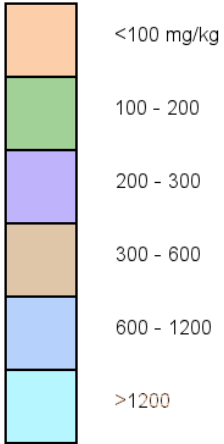
Geo-Environmental

General

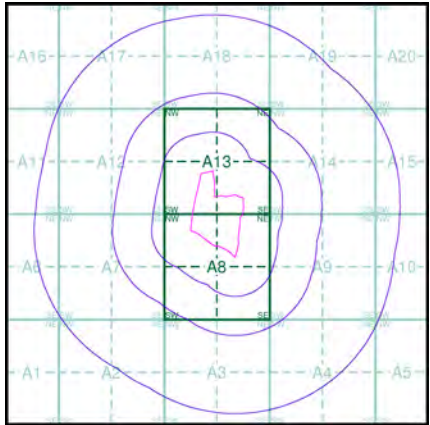
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point

Estimated Soil Chemistry Lead

Lead Concentrations mg/kg



Estimated Soil Chemistry Lead - Slice A



Order Details

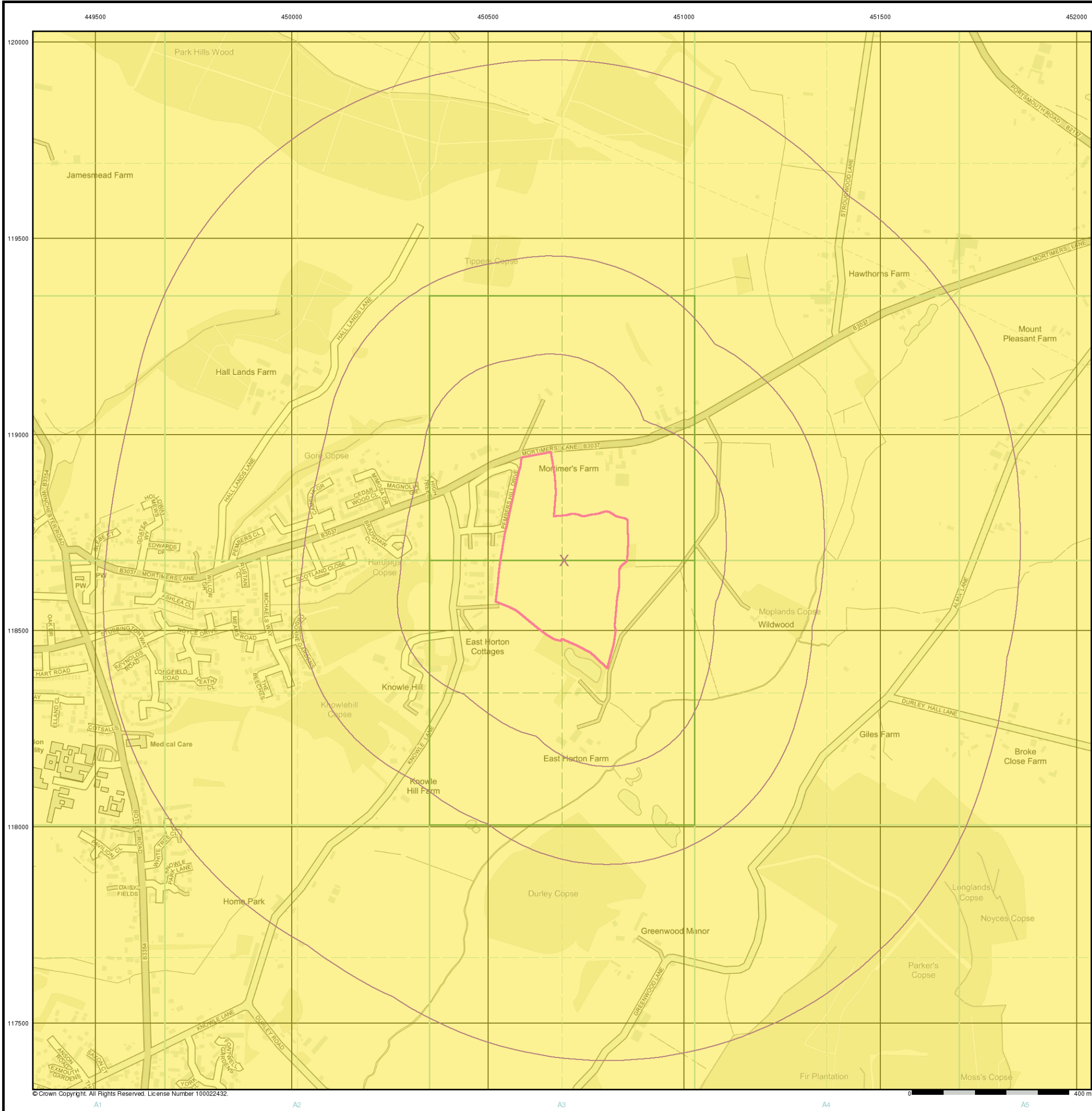
Order Details: 304784389_1_1
Customer Ref: GE21215
National Grid Reference: 450690, 118680
Slice: A
Site Area (Ha): 10.97
Search Buffer (m): 1000

Site Details

Site at 450680, 118690



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

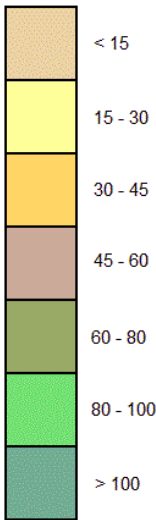


General

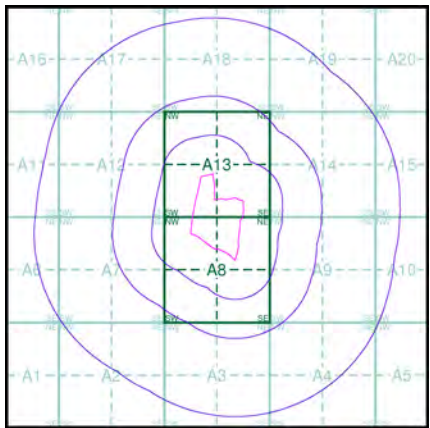
 Specified Site  Specified Buffer(s)  Bearing Reference Point

Estimated Soil Chemistry Nickel

Nickel Concentrations mg/kg



Estimated Soil Chemistry Nickel - Slice A

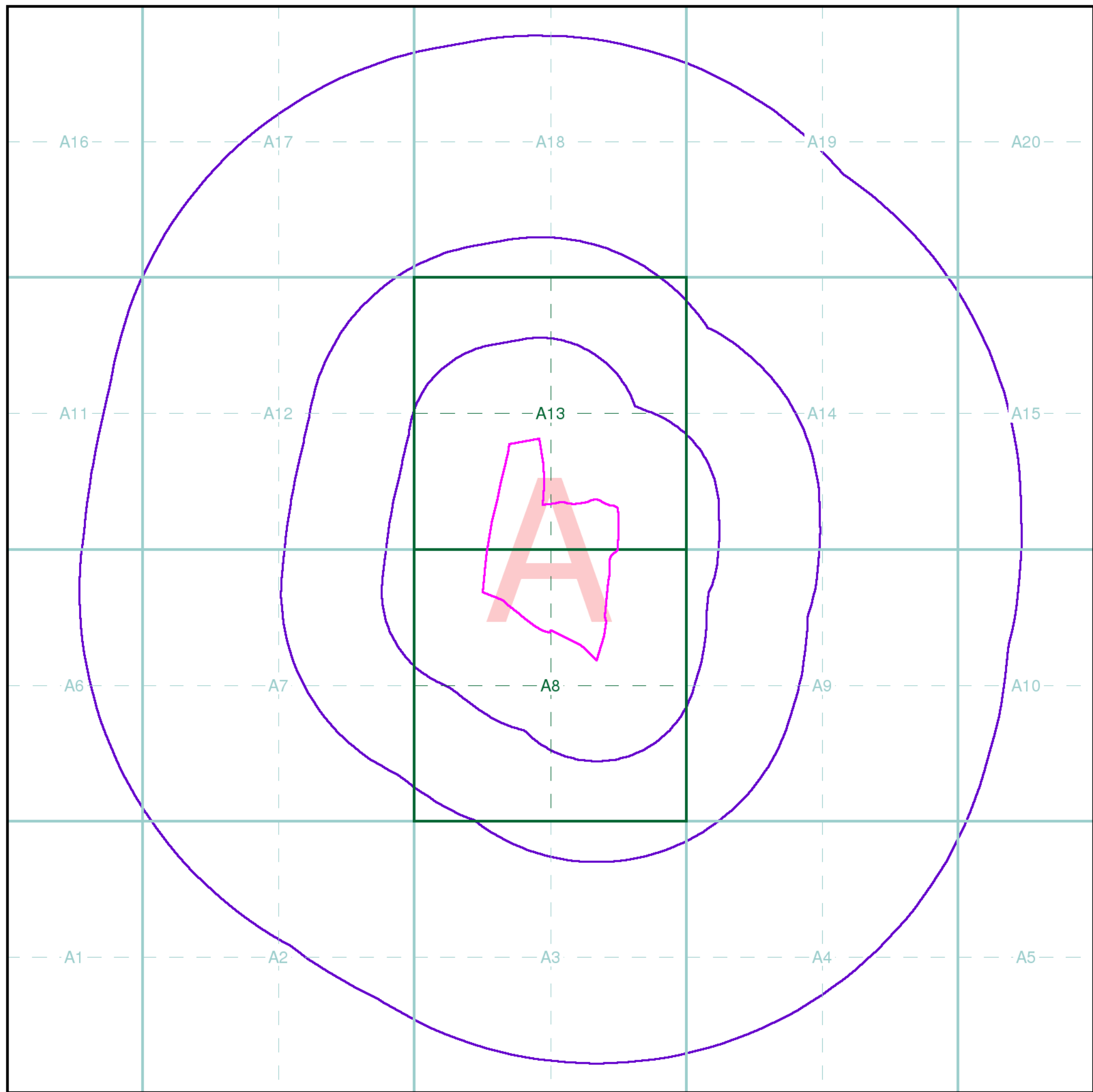


Order Details

Order Details: 304784389_1_1
Customer Ref: GE21215
National Grid Reference: 450690, 118680
Slice: A
Site Area (Ha): 10.97
Search Buffer (m): 1000

Site Details

Site at 450680, 118690



Geo-Environmental 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 F Goode, Geo Environmental Services Ltd, Unit 7
Danworth Farm, Cuckfield Road, Hurstpierpoint, West
Sussex, BN6 9GL

Order Details
Order Number: 304784389_1_1
Customer Ref: GE21215
National Grid Reference: 450690, 118670
Site Area (Ha): 10.97
Search Buffer (m): 1000

Site Details
Site at 450680, 118690

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



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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		
	•285 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
	Bracken		Heath
	Marsh		Reeds
	Building		Glasshouse
	Sloping Masonry		Pylon
	Cutting		Embankment
	Road Under		Road Over
	Level Crossing		Foot Bridge
	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
	Civil Parish		
	BP, BS Boundary Post or Stone		Police Station
	Church		Post Office
	Club House		Public Convenience
	Fire Engine Station		Public House
	Foot Bridge		Signal Box
	Fountain		Spring
	Guide Post		Telephone Call Box
	Mile Post		Telephone Call Post
	Mile Stone		Well

1:10,000 Raster Mapping

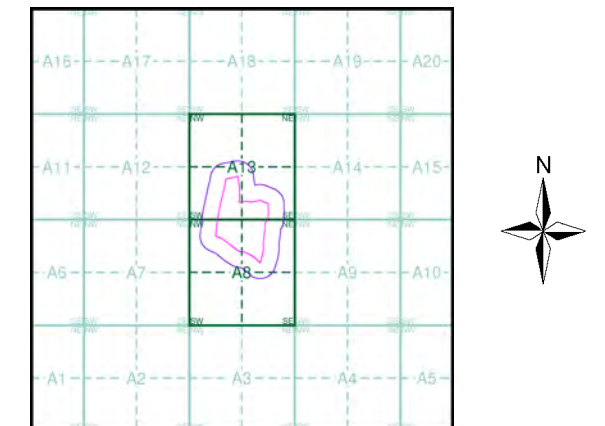
	Gravel Pit		Refuse tip or slag heap
	Rock		Rock (scattered)
	Boulders		Boulders (scattered)
	Shingle		Mud
	Sand		Sand Pit
	Slopes		Top of cliff
	General detail		Underground detail
	Overhead detail		Narrow gauge railway
	Multi-track railway		Single track railway
	County boundary (England only)		Civil, 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
	Mean high water (springs)		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



Geo-Environmental Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Hampshire & Isle Of Wight	1:10,560	1871	2
Hampshire & Isle Of Wight	1:10,560	1897 - 1898	3
Hampshire & Isle Of Wight	1:10,560	1910 - 1911	4
Hampshire & Isle Of Wight	1:10,560	1939	5
Historical Aerial Photography	1:10,560	1947 - 1948	6
Ordnance Survey Plan	1:10,000	1961 - 1963	7
Ordnance Survey Plan	1:10,000	1968	8
Ordnance Survey Plan	1:10,000	1982 - 1987	9
Ordnance Survey Plan	1:10,000	1986	10
Ordnance Survey Plan	1:10,000	1990	11
10K Raster Mapping	1:10,000	2000	12
10K Raster Mapping	1:10,000	2006	13
VectorMap Local	1:10,000	2022	14

Historical Map - Slice A



Order Details

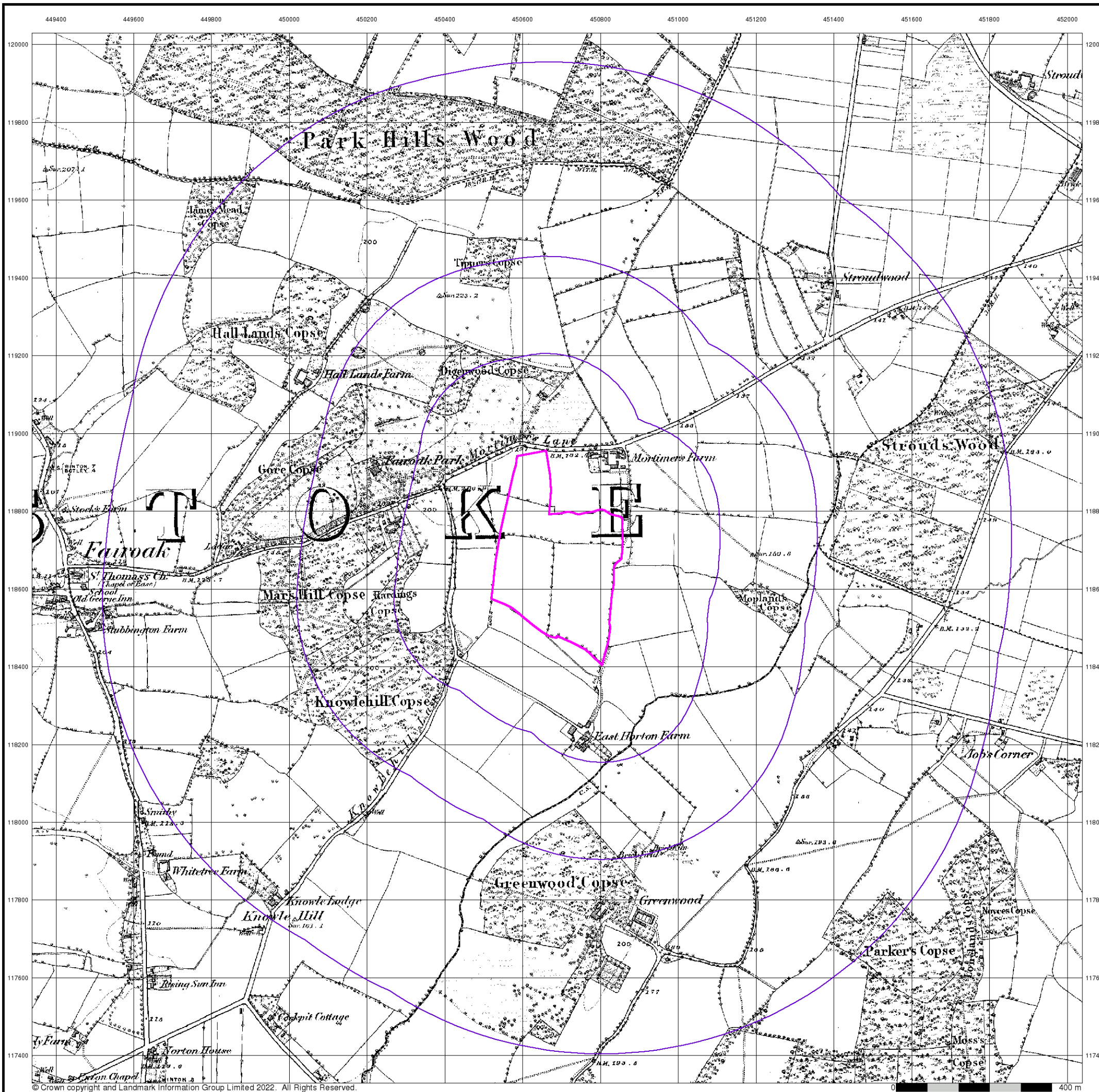
Order Number: 304784389_1_1
Customer Ref: GE21215
National Grid Reference: 450690, 118680
Slice: A
Site Area (Ha): 10.97
Search Buffer (m): 1000

Site Details

Site at 450680, 118690

Landmark
INFORMATION GROUP

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Web: www.envirocheck.co.uk



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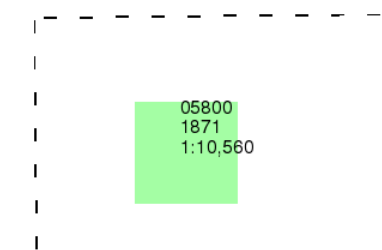
Geo-Environmental Hampshire & Isle Of Wight

Published 1871

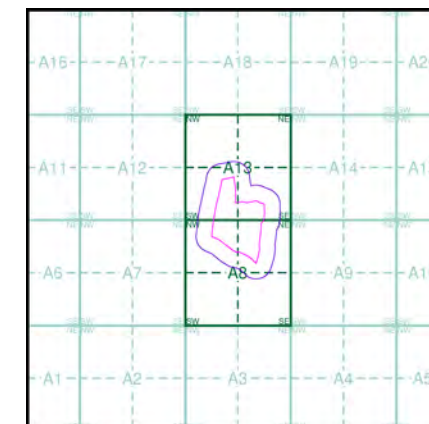
Source map scale - 1:10,560

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: 304784389_1_1
Customer Ref: GE21215
National Grid Reference: 450690, 118680
Slice: A
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