

contaminants the site is not considered to pose a risk to surface water receptors via surface water runoff.

## 19 Waste Disposal

It is anticipated that the proposed development will generate waste soils and materials will need to be removed from site as part of the construction process.

Where soils are to be disposed off-site, it is the duty of the waste producer, in this case the Client, to ensure that all waste is disposed of appropriately and that any that is sent to landfill is sent to an appropriately licensed one. All waste sent to landfill must be classified and must be pre-treated. The form of pre-treatment should be documented in the Site Waste Management Plan. There are various forms of pre-treatment that are acceptable. In this case it could include “reduction in volume”, which could be achieved by segregating the Made Ground and re-using part of it on site.

Where made ground soil is to be re-used on site then it is recommended that this is carried out under the CL:AIRE Definition of Waste Industry Code of Practice (DoWCoP) for re-use of soils<sup>8</sup>.

One sample was tested for waste acceptance criteria purposes, HA103 at 0-0.4m. The elevated total organic carbon concentration of 10% suggest that the material would receive a hazardous classification. It is recommended that this is confirmed with a haulier and receiving site. Further testing and inspection of soils will be required to confirm waste classification of material leaving the site.

It is strongly advised that detailed discussions be held with remediation/groundworks contractors and that receiving landfill sites are identified in advance of commencing any waste removal.

## 20 Outline Remediation Strategy

Risks to end users have been identified where direct contact with made ground will be possible on completion of the development. The proposed development layout identifies limited areas of soft landscaping with planting of hedgerows around the residential unit. The remainder and majority of the development site will be hard covered. Based on the proposed layout it is considered that remediation can be limited to removal of a narrow strip of soils below areas of proposed soft landscaping only. The following proposals are based strictly on the current

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<sup>8</sup> The Definition of Waste: Development Industry Code of Practice. Version 2 2011. Claire

scheme under consideration and will need to be reviewed should development proposals change in the future.

## 20.1 Clean Cover Systems in Soft Landscaped Areas

Allowance should be made for the provision of 400mm thickness of clean cover soils in this area. The 400mm cover requirement is based on the BRE Cover Calculation with 8.9mg/kg Benzo(a)Pyrene in near surface soils currently on site (the upper confidence limit recorded)

Elevated concentrations of Benzo(a)pyrene were recorded in HAI03 (directly south of the barn) and HAI06 (north of the barn) to depths between 0.3m and 0.4m where planting is proposed. Similarly, the previous site investigation recorded elevated PAH concentration at 0.3-0.4m (in the south-eastern area of the barn). Elevated lead was also recorded within HAI03 by LEAP.

No elevated levels of contamination were recorded in the grassed area that is outside of the planning boundary but within the client ownership.

It is envisaged that topsoil will be required to be imported to the proposed soft landscaped areas. Depending on final levels and the specific requirements of the development (landscape architecture for example), it may be necessary to import subsoil as well as topsoil.

Site-won material may be suitable for reuse from areas on site not found to be impacted by contamination. Additional testing would be required to determine suitability of this material for reuse.

In general terms, all imported soils should be approved prior to importation. The proposed sources should be assessed on the basis of either a detailed site investigation or laboratory test results in the case of a manufactured topsoil.

All imported soils should be subject to the test parameters attached in Appendix H irrespective of the depth at which they are to be placed.

## 20.2 Discovery Strategy

It is considered possible that as yet unidentified contamination may be encountered during construction works. Where additional contamination is identified during works this will be subject to further assessment, and documented accordingly. It may be necessary to recommend the removal of additional soils or to propose alternative remedial solutions.

Verification Engineers are to be informed if any material suspected to be contaminated is encountered during the course of the development, so that appropriate revisions to remedial strategy can be implemented as required.

## 20.3 Protection of Incoming Services

Given the marginally elevated concentration of contaminants recorded by works completed thus far, the use of protective barrier pipes for incoming water **may be** required.

Ultimately the local water supply company will have their own specification and they should be consulted to confirm whether they will require protection measures to be adopted.

## 20.4 Validation of Remediation

As only limited remediation is required, it is considered that validation of remediation could be limited to the following:-

- Photographic evidence of final landscaping to confirm areas where soft and hard cover has been completed;
- Photographic evidence confirming that the required thickness of clean imported cover soils have been implemented in areas of soft landscaping; and
- Certification of imported soils confirming suitability for use in a residential setting and that soils comply with requirements as set out in Appendix H.

## 21 Conclusions

- The contamination risk assessment has indicated that made ground beneath the development site is locally impacted with lead and the PAH compound Benzo(a)Pyrene.
- The identified contamination is considered to pose a risk to human health where present in areas of soft landscaping.
- Remediation is required and should comprise provision of 400mm of clean cover soils in areas of soft landscaping. Taking into consideration the proposed development layout it is considered that remediation can be limited to the areas of hedgerow as shown on Figure 2, in Appendix B.
- A specification for imported soils is provided in Appendix H.
- On completion a record of the imported soils used and areas placed should be prepared.

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## APPENDIX A - LIMITATIONS

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Limitations

## LIMITATIONS

This report is confidential to the Client, and Leap Environmental Ltd accepts no responsibility whatsoever to third parties to whom this report, or any part thereof, is made known, unless formally agreed by Leap Environmental Ltd beforehand. Any such party relies upon the report at their own risk. Unless explicitly agreed otherwise in writing, this report has been prepared under LEAP's standard terms and conditions, as included in the quotation for this works.

This report has been prepared by Leap Environmental Ltd on the basis of information received from a variety of sources which Leap Environmental Ltd believes to be accurate. Nevertheless, Leap Environmental Ltd cannot and does not guarantee the authenticity or reliability of the information it has obtained from others.

Leap Environmental Ltd has used all reasonable skill, care and diligence in the design and execution of this report, taking into account the manpower and resources devoted to it in agreement with the Client. Although every reasonable effort has been made to obtain all relevant information, all potential contamination, environmental constraints or liabilities associated with the site may not necessarily have been revealed. LEAP cannot be held responsible for any disclosures or changes in regulation that are provided post production of this report, and will not automatically update the report.

The conclusions reached in this report are necessarily restricted to those which can be determined from the information consulted, and may be subject to amendment in the light of additional information becoming available. These conclusions may not be appropriate for alternative schemes.

The extent of the exploratory holes, laboratory testing and monitoring undertaken may have been restricted due to a number of factors including accessibility, the presence of buried or overhead services, current development and site usage, timescales or clients specification. The exploratory holes only assess a small proportion of the site area with respect to the site as a whole, and as such may only provide an overall assessment of ground conditions on site. The presence of hotspots of undisclosed contamination or exceptional and unforeseen ground conditions cannot be discounted.

Eurocode 7 gives guidance on the type of sampling, sample quality, number and spacing of intrusive investigations, and number of laboratory tests required. It is intended that the Geotechnical Information section of this report will fulfil the general requirements of the Ground Investigation Report as set out in section 6 of Eurocode<sup>9</sup>, although this is subject to the restrictions imposed on the investigation as listed above. For geotechnical design, Eurocode 7 requires the Geotechnical Design Report to address both the geotechnical and

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<sup>9</sup> BS EN 1997 Eurocode 7- Geotechnical Design - Part 1: General Rules (2004) and Part 2: Ground Investigation and Testing (2007)

structural aspects of the geotechnical design for both the limit and serviceability states. The Geotechnical Appraisal section of this report will not meet the requirements of a Geotechnical Design Report (GDR), and should therefore be used for preliminary guidance only.

The presence of asbestos may be noted during the site walkover survey, intrusive investigations and/or from the results of contamination testing. However, this report does not constitute an asbestos survey. On this basis, the presence of asbestos on site cannot be discounted and a full asbestos survey should be undertaken.

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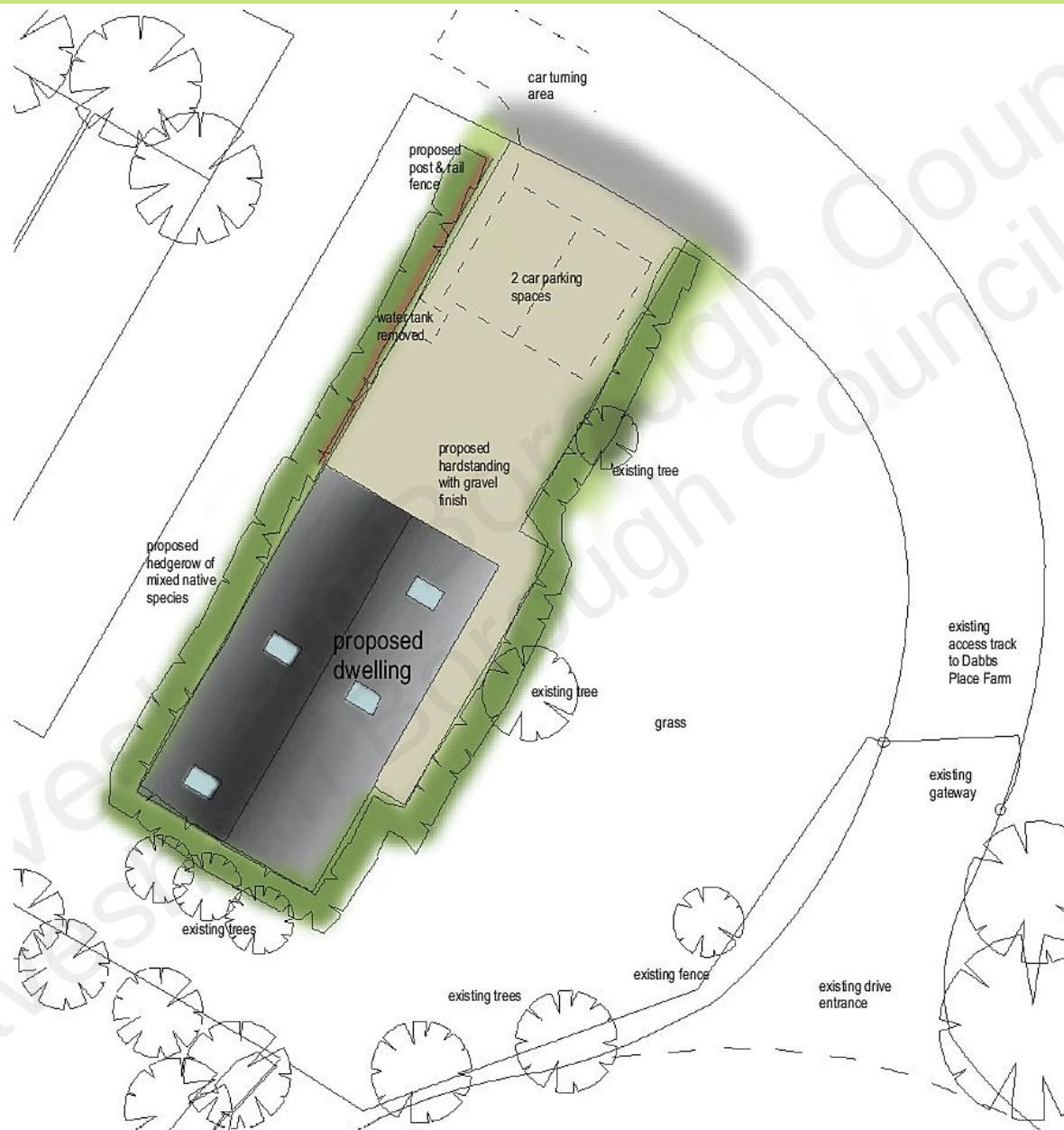
## APPENDIX B - FIGURES

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Figures

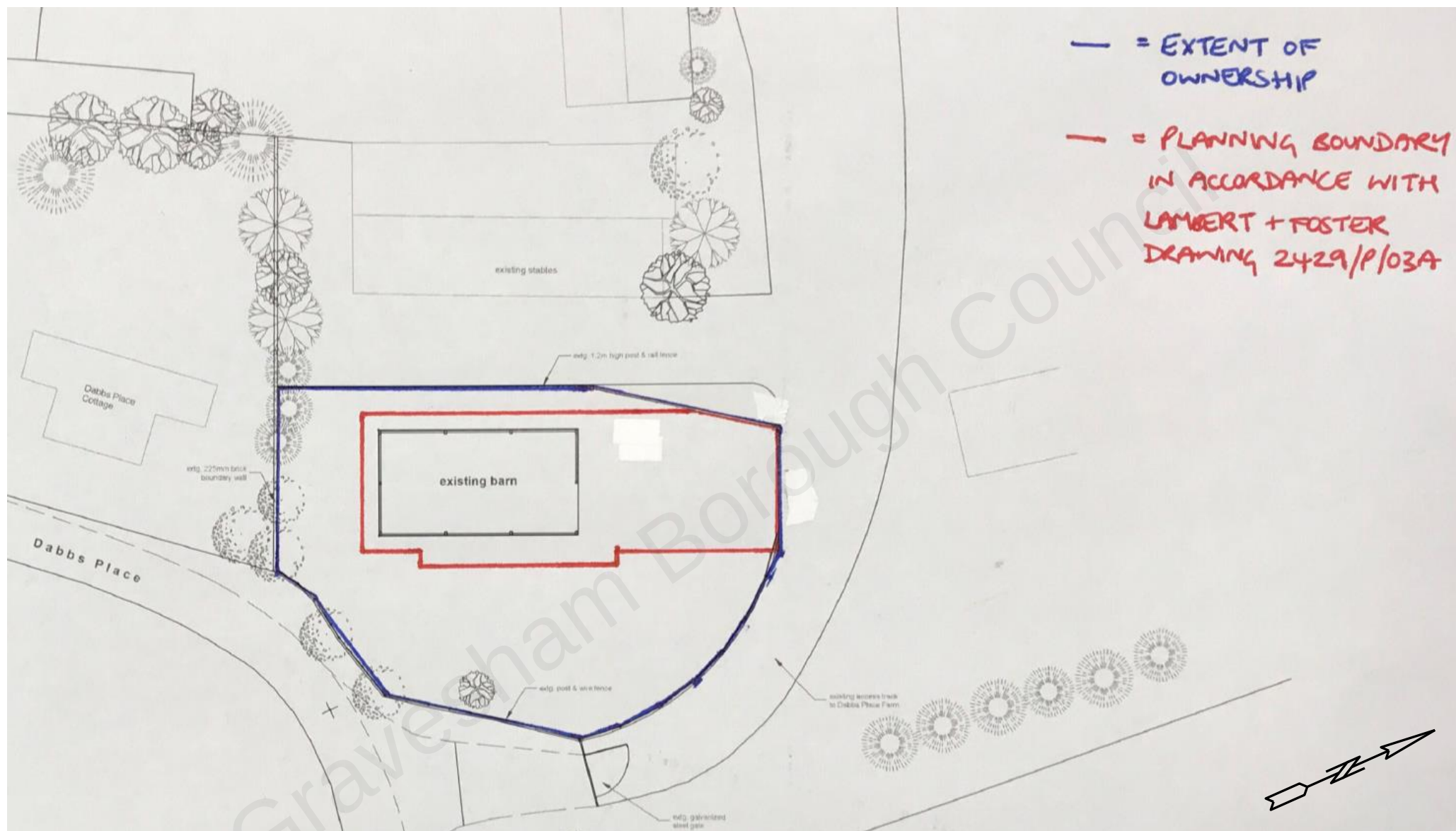


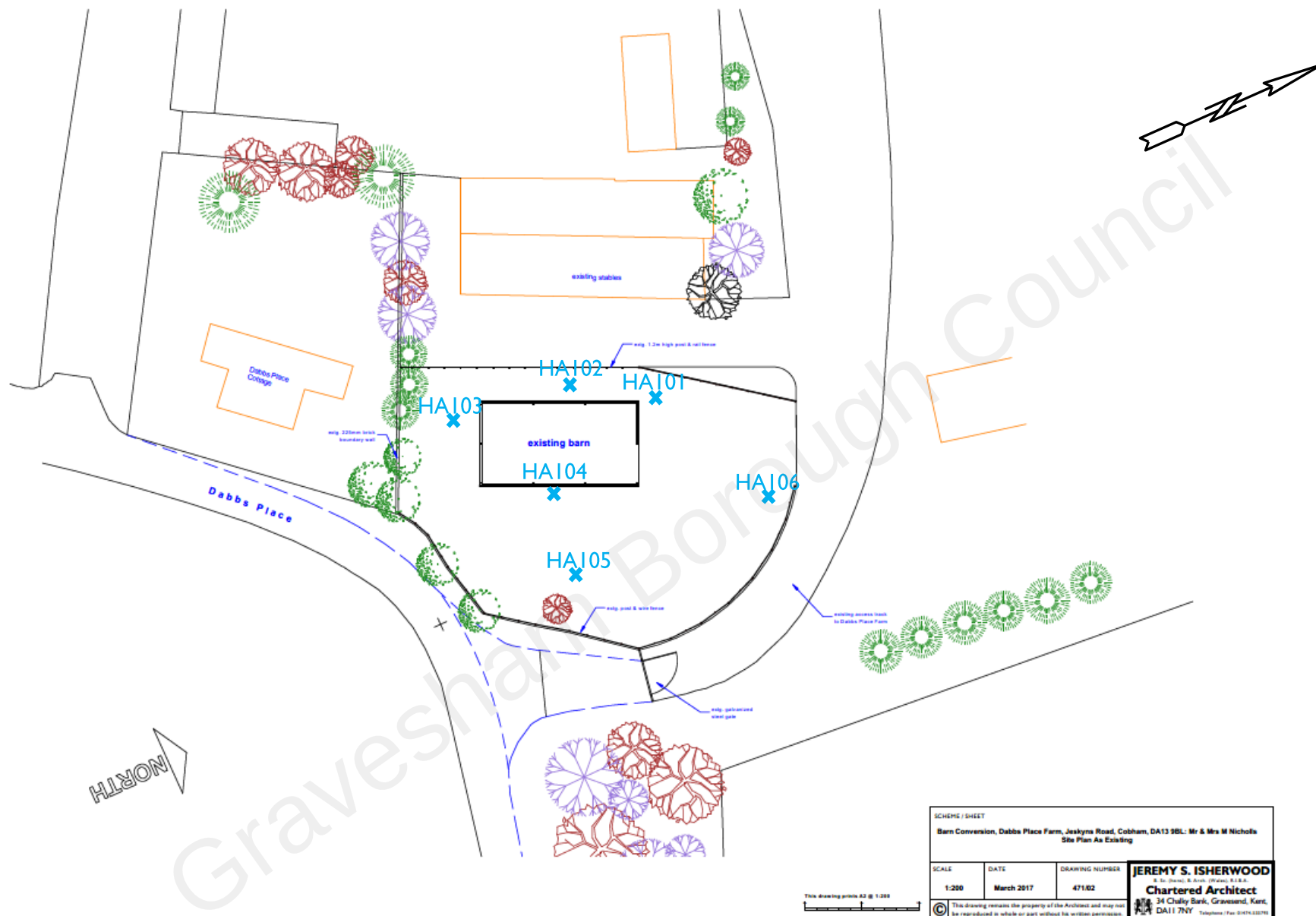
|                                                                                      |          |                  |        |                    |             |        |
|--------------------------------------------------------------------------------------|----------|------------------|--------|--------------------|-------------|--------|
|  | Client:  | Matthew Nicholls | Date:  | 02/08/17           | Project ID: | LPI436 |
|                                                                                      | Project: | The Barn, Cobham | Title: | Site Location Plan | Fig. No.    | I      |



|                                                                                      |          |                  |        |                 |             |        |
|--------------------------------------------------------------------------------------|----------|------------------|--------|-----------------|-------------|--------|
|  | Client:  | Matthew Nicholls | Date:  | 02/10/17        | Project ID: | LPI436 |
|                                                                                      | Project: | The Barn, Cobham | Title: | Proposed Layout | Fig. No.    | 2      |







|                                                                                      |          |                  |        |                          |             |        |
|--------------------------------------------------------------------------------------|----------|------------------|--------|--------------------------|-------------|--------|
|  | Client:  | Matthew Nicholls | Date:  | 02/08/17                 | Project ID: | LPI436 |
|                                                                                      | Project: | The Barn, Cobham | Title: | Hand Auger Location Plan | Fig. No.    | 5      |

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## APPENDIX C – HISTORIC MAPS AND ENVIRONMENTAL DATABASE SEARCHES

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Historic Maps and  
Environmental  
Database Searches

## Envirocheck<sup>®</sup> Report:

### Datasheet

#### Order Details:

**Order Number:**

134231146\_1\_1

**Customer Reference:**

LP1436

**National Grid Reference:**

565800, 169180

**Slice:**

A

**Site Area (Ha):**

0.1

**Search Buffer (m):**

1000

#### Site Details:

The Barn, Dabbs Place Cottage, Jeskyns Road

Cobham

GRAVESEND

DA13 9BL

#### Client Details:

Mr D Beesley

Leap Environmental Ltd

The Atrium Business Centre

Curtis Road

Dorking

Surrey

RH4 1XA

| Report Section        | Page Number |
|-----------------------|-------------|
| Summary               | -           |
| Agency & Hydrological | 1           |
| Waste                 | 4           |
| Hazardous Substances  | -           |
| Geological            | 5           |
| Industrial Land Use   | 7           |
| Sensitive Land Use    | 8           |
| Data Currency         | 9           |
| Data Suppliers        | 15          |
| Useful Contacts       | 16          |

### Introduction

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

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

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### Report Version v53.0

| Data Type                                                     | Page Number | On Site | 0 to 250m | 251 to 500m | 501 to 1000m<br>(*up to 2000m) |
|---------------------------------------------------------------|-------------|---------|-----------|-------------|--------------------------------|
| <b>Agency &amp; Hydrological</b>                              |             |         |           |             |                                |
| BGS Groundwater Flooding Susceptibility                       | pg 1        | Yes     |           |             | n/a                            |
| Contaminated Land Register Entries and Notices                |             |         |           |             |                                |
| Discharge Consents                                            | pg 1        |         |           | 2           |                                |
| Prosecutions Relating to Controlled Waters                    |             |         | n/a       | n/a         | n/a                            |
| Enforcement and Prohibition Notices                           |             |         |           |             |                                |
| Integrated Pollution Controls                                 |             |         |           |             |                                |
| Integrated Pollution Prevention And Control                   |             |         |           |             |                                |
| Local Authority Integrated Pollution Prevention And Control   |             |         |           |             |                                |
| Local Authority Pollution Prevention and Controls             |             |         |           |             |                                |
| Local Authority Pollution Prevention and Control Enforcements |             |         |           |             |                                |
| Nearest Surface Water Feature                                 | pg 1        |         | Yes       |             |                                |
| Pollution Incidents to Controlled Waters                      |             |         |           |             |                                |
| Prosecutions Relating to Authorised Processes                 |             |         |           |             |                                |
| Registered Radioactive Substances                             |             |         |           |             |                                |
| River Quality                                                 |             |         |           |             |                                |
| River Quality Biology Sampling Points                         |             |         |           |             |                                |
| River Quality Chemistry Sampling Points                       |             |         |           |             |                                |
| Substantiated Pollution Incident Register                     |             |         |           |             |                                |
| Water Abstractions                                            | pg 1        |         |           |             | (*4)                           |
| Water Industry Act Referrals                                  |             |         |           |             |                                |
| Groundwater Vulnerability                                     | pg 2        | Yes     | n/a       | n/a         | n/a                            |
| Drift Deposits                                                |             |         | n/a       | n/a         | n/a                            |
| Bedrock Aquifer Designations                                  | pg 2        | Yes     | n/a       | n/a         | n/a                            |
| Superficial Aquifer Designations                              |             |         | n/a       | n/a         | n/a                            |
| Source Protection Zones                                       | pg 2        | 1       |           |             | 1                              |
| Extreme Flooding from Rivers or Sea without Defences          |             |         |           | n/a         | n/a                            |
| Flooding from Rivers or Sea without Defences                  |             |         |           | 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 3        |         |           |             | 5                              |

| Data Type                                                           | Page Number | On Site | 0 to 250m | 251 to 500m | 501 to 1000m (*up to 2000m) |
|---------------------------------------------------------------------|-------------|---------|-----------|-------------|-----------------------------|
| <b>Waste</b>                                                        |             |         |           |             |                             |
| BGS Recorded Landfill Sites                                         |             |         |           |             |                             |
| Historical Landfill Sites                                           |             |         |           |             |                             |
| Integrated Pollution Control Registered Waste Sites                 |             |         |           |             |                             |
| Licensed Waste Management Facilities (Landfill Boundaries)          |             |         |           |             |                             |
| Licensed Waste Management Facilities (Locations)                    |             |         |           |             |                             |
| Local Authority Landfill Coverage                                   | pg 4        | 2       | n/a       | n/a         | n/a                         |
| Local Authority Recorded Landfill Sites                             |             |         |           |             |                             |
| Registered Landfill Sites                                           |             |         |           |             |                             |
| Registered Waste Transfer Sites                                     |             |         |           |             |                             |
| Registered Waste Treatment or Disposal Sites                        |             |         |           |             |                             |
| <b>Hazardous Substances</b>                                         |             |         |           |             |                             |
| Control of Major Accident Hazards Sites (COMAH)                     |             |         |           |             |                             |
| Explosive Sites                                                     |             |         |           |             |                             |
| Notification of Installations Handling Hazardous Substances (NIHHS) |             |         |           |             |                             |
| Planning Hazardous Substance Consents                               |             |         |           |             |                             |
| Planning Hazardous Substance Enforcements                           |             |         |           |             |                             |
| <b>Geological</b>                                                   |             |         |           |             |                             |
| BGS 1:625,000 Solid Geology                                         | pg 5        | Yes     | n/a       | n/a         | n/a                         |
| BGS Recorded Mineral Sites                                          | pg 5        |         |           | 1           | 3                           |
| CBSCB Compensation District                                         |             |         | n/a       | n/a         | n/a                         |
| Coal Mining Affected Areas                                          |             |         | n/a       | n/a         | n/a                         |
| Mining Instability                                                  | pg 5        | Yes     | n/a       | n/a         | n/a                         |
| Man-Made Mining Cavities                                            |             |         |           |             |                             |
| Natural Cavities                                                    |             |         |           |             |                             |
| Non Coal Mining Areas of Great Britain                              | pg 5        | Yes     | Yes       | n/a         | n/a                         |
| Potential for Collapsible Ground Stability Hazards                  | pg 5        | Yes     |           | n/a         | n/a                         |
| Potential for Compressible Ground Stability Hazards                 |             |         |           | n/a         | n/a                         |
| Potential for Ground Dissolution Stability Hazards                  | pg 6        | Yes     | Yes       | n/a         | n/a                         |
| Potential for Landslide Ground Stability Hazards                    | pg 6        | Yes     |           | n/a         | n/a                         |
| Potential for Running Sand Ground Stability Hazards                 | pg 6        | Yes     | Yes       | n/a         | n/a                         |
| Potential for Shrinking or Swelling Clay Ground Stability Hazards   | pg 6        |         | Yes       | n/a         | n/a                         |
| Radon Potential - Radon Affected Areas                              | pg 6        | Yes     | n/a       | n/a         | n/a                         |
| Radon Potential - Radon Protection Measures                         |             |         | n/a       | n/a         | n/a                         |

| Data Type                            | Page Number | On Site | 0 to 250m | 251 to 500m | 501 to 1000m (*up to 2000m) |
|--------------------------------------|-------------|---------|-----------|-------------|-----------------------------|
| <b>Industrial Land Use</b>           |             |         |           |             |                             |
| Contemporary Trade Directory Entries | pg 7        |         |           | 1           | 1                           |
| Fuel Station Entries                 |             |         |           |             |                             |
| Gas Pipelines                        | pg 7        |         |           |             | 2                           |
| Underground Electrical Cables        |             |         |           |             |                             |
| <b>Sensitive Land Use</b>            |             |         |           |             |                             |
| Ancient Woodland                     | pg 8        |         |           |             | 1                           |
| Areas of Adopted Green Belt          | pg 8        | 1       |           |             |                             |
| Areas of Unadopted Green Belt        |             |         |           |             |                             |
| Areas of Outstanding Natural Beauty  | pg 8        |         |           |             | 1                           |
| Environmentally Sensitive Areas      |             |         |           |             |                             |
| Forest Parks                         |             |         |           |             |                             |
| Local Nature Reserves                |             |         |           |             |                             |
| Marine Nature Reserves               |             |         |           |             |                             |
| National Nature Reserves             |             |         |           |             |                             |
| National Parks                       |             |         |           |             |                             |
| Nitrate Sensitive Areas              |             |         |           |             |                             |
| Nitrate Vulnerable Zones             | pg 8        | 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              |
|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------|---------|------------------|
|        | <b>BGS Groundwater Flooding Susceptibility</b><br>Flooding Type: Limited Potential for Groundwater Flooding to Occur                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | A13SE (W)                              | 0                            | 1       | 565800<br>169183 |
| 1      | <b>Discharge Consents</b><br>Operator: Gravesham Borough Council<br>Property Type: DOMESTIC PROPERTY (MULTIPLE) (INCL FARM HOUSES)<br>Location: 3 & 4 Henhurst Hill, Cobham 3 & 4 Henhurst Hill, Henhurst Hill, Cobham, Gravesend, Kent, Da12 3aw<br>Authority: Environment Agency, Southern Region<br>Catchment Area: Darent (NIRS)<br>Reference: P11384<br>Permit Version: 2<br>Effective Date: 21st December 2012<br>Issued Date: 21st December 2012<br>Revocation Date: Not Supplied<br>Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company<br>Discharge: Into Land<br>Environment:<br>Receiving Water: Underground Strata<br><b>Status: Varied under EPR 2010</b><br>Positional Accuracy: Located by supplier to within 10m                                                                                       | A18SE (N)                              | 479                          | 2       | 565980<br>169650 |
| 1      | <b>Discharge Consents</b><br>Operator: Gravesham Borough Council<br>Property Type: DOMESTIC PROPERTY (MULTIPLE) (INCL FARM HOUSES)<br>Location: 3 & 4 Henhurst Hill, Cobham 3 & 4 Henhurst Hill, Henhurst Hill, Cobham, Gravesend, Kent, Da12 3aw<br>Authority: Environment Agency, Southern Region<br>Catchment Area: Darent (NIRS)<br>Reference: P11384<br>Permit Version: 1<br>Effective Date: 13th March 2003<br>Issued Date: 13th March 2003<br>Revocation Date: 20th December 2012<br>Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company<br>Discharge: Land/Soakaway<br>Environment:<br>Receiving Water: Underground Strata<br><b>Status: New Consent (Water Resources Act 1991, Section 88 &amp; Schedule 10 as amended by Environment Act 1995)</b><br>Positional Accuracy: Located by supplier to within 10m | A18SE (N)                              | 479                          | 2       | 565980<br>169650 |
|        | <b>Nearest Surface Water Feature</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | A13SE (SE)                             | 25                           | -       | 565836<br>169163 |
|        | <b>Water Abstractions</b><br>Operator: Amec Plc<br>Licence Number: 01/143<br>Permit Version: 1<br>Location: Borehole At Point A At Scalers Hill Cobham Near Gravesend<br>Authority: Environment Agency, Southern Region<br>Abstraction: Construction: Dust Suppression<br>Abstraction Type: Water may be abstracted from a single point<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: As Boldly Outlined On The Map<br>Authorised Start: 01 April<br>Authorised End: 31 October<br>Permit Start Date: 7th September 1999<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m                                                                                                                                                                       | A19SE (NE)                             | 1117                         | 2       | 566740<br>169820 |
|        | <b>Water Abstractions</b><br>Operator: Southern Water Services Ltd<br>Licence Number: 9/40/01/0511/G<br>Permit Version: 100<br>Location: Lower Greensand Boreholes, Wells And Adits At Northfleet Ps<br>Authority: Environment Agency, Southern Region<br>Abstraction: Public Water Supply: Potable Water Supply - Direct<br>Abstraction Type: Water may be abstracted from any point within an area<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: Discharged To Chalk Strata<br>Authorised Start: 01 January<br>Authorised End: 31 December<br>Permit Start Date: 27th November 2006<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m                                                                                                          | (W)                                    | 1884                         | 2       | 563900<br>169250 |

| Map ID | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR              |
|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------|---------|------------------|
|        | <b>Water Abstractions</b><br>Operator: Southern Water Services Ltd<br>Licence Number: 9/40/01/0511/G<br>Permit Version: 100<br>Location: Chalk Boreholes, Wells And Adits At Northfleet Ps<br>Authority: Environment Agency, Southern Region<br>Abstraction: Public Water Supply: Potable Water Supply - Direct<br>Abstraction Type: Water may be abstracted from any point within an area<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: N/A<br>Authorised Start: 01 January<br>Authorised End: 31 December<br>Permit Start Date: 27th November 2006<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m                             | (W)                                    | 1884                         | 2       | 563900<br>169250 |
|        | <b>Water Abstractions</b><br>Operator: Southern Water Services Plc<br>Licence Number: 9/40/01/0511/G<br>Permit Version: 100<br>Location: Lower Greensand Boreholes, Wells And Adits At Northfleet Ps<br>Authority: Environment Agency, Southern Region<br>Abstraction: Water Supply Related: Transfer Between Sources<br>Abstraction Type: Water may be abstracted from any point within an area<br>Source: Groundwater<br>Daily Rate (m3): Not Supplied<br>Yearly Rate (m3): Not Supplied<br>Details: Discharge To Chalk Strata.<br>Authorised Start: 01 January<br>Authorised End: 31 December<br>Permit Start Date: 6th December 1988<br>Permit End Date: Not Supplied<br>Positional Accuracy: Located by supplier to within 10m | (W)                                    | 1884                         | 2       | 563900<br>169250 |
|        | <b>Groundwater Vulnerability</b><br>Soil Classification: Soils of Intermediate Leaching Potential (I1) - Soils which can possibly transmit a wide range of pollutants<br>Map Sheet: Sheet 40 Thames Estuary<br>Scale: 1:100,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | A13NE<br>(N)                           | 0                            | 2       | 565802<br>169206 |
|        | <b>Groundwater Vulnerability</b><br>Soil Classification: Soils of Intermediate Leaching Potential (I1) - Soils which can possibly transmit a wide range of pollutants<br>Map Sheet: Sheet 40 Thames Estuary<br>Scale: 1:100,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | A13SE<br>(W)                           | 0                            | 2       | 565800<br>169183 |
|        | <b>Drift Deposits</b><br>None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                        |                              |         |                  |
|        | <b>Bedrock Aquifer Designations</b><br>Aquifer Designation: Secondary Aquifer - A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | A13SE<br>(W)                           | 0                            | 1       | 565800<br>169183 |
|        | <b>Superficial Aquifer Designations</b><br>No Data Available                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                        |                              |         |                  |
| 2      | <b>Source Protection Zones</b><br>Name: Various<br>Source: Environment Agency, Head Office<br>Reference: Not Supplied<br>Type: Zone III (Total Catchment): The total area needed to support the discharge from the protected groundwater source.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | A13SE<br>(W)                           | 0                            | 2       | 565800<br>169183 |
| 3      | <b>Source Protection Zones</b><br>Name: Various<br>Source: Environment Agency, Head Office<br>Reference: Not Supplied<br>Type: Zone II (Outer Protection Zone): Either 25% of the source area or a 400 day travel time whichever is greater.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | A12SE<br>(W)                           | 504                          | 2       | 565296<br>169036 |
|        | <b>Extreme Flooding from Rivers or Sea without Defences</b><br>None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                        |                              |         |                  |
|        | <b>Flooding from Rivers or Sea without Defences</b><br>None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                        |                              |         |                  |
|        | <b>Areas Benefiting from Flood Defences</b><br>None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                        |                              |         |                  |
|        | <b>Flood Water Storage Areas</b><br>None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                        |                              |         |                  |

| Map ID | Details                                                                                                                                                                                                                           | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR              |
|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------|---------|------------------|
|        | <b>Flood Defences</b><br>None                                                                                                                                                                                                     |                                        |                              |         |                  |
| 4      | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 6.3<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Medway<br>Primacy: 1   | A18SE (NE)                             | 722                          | 3       | 566111<br>169858 |
| 5      | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 10.1<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Medway<br>Primacy: 1  | A18NE (NE)                             | 728                          | 3       | 566111<br>169864 |
| 6      | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 4.1<br>Watercourse Level: Underground<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Medway<br>Primacy: 1         | A18NE (NE)                             | 737                          | 3       | 566112<br>169874 |
| 7      | <b>OS Water Network Lines</b><br>Watercourse Form: Lake<br>Watercourse Length: 19.7<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Medway<br>Primacy: 1          | A18NE (NE)                             | 741                          | 3       | 566113<br>169878 |
| 8      | <b>OS Water Network Lines</b><br>Watercourse Form: Inland river<br>Watercourse Length: 332.0<br>Watercourse Level: On ground surface<br>Permanent: True<br>Watercourse Name: Not Supplied<br>Catchment Name: Medway<br>Primacy: 1 | A18NE (N)                              | 861                          | 3       | 566040<br>170033 |

| Map ID | Details                                                                                                                                       | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR              |
|--------|-----------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------|---------|------------------|
|        | <b>Local Authority Landfill Coverage</b><br>Name: Gravesham Borough Council<br>- Has no landfill data to supply                               |                                        | 0                            | 4       | 565800<br>169183 |
|        | <b>Local Authority Landfill Coverage</b><br>Name: Kent County Council<br>- Had landfill data but passed it to the relevant environment agency |                                        | 0                            | 5       | 565800<br>169183 |

| Map ID | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------|---------|---------------|
|        | <b>BGS 1:625,000 Solid Geology</b><br>Description: Thanet Sand Formation                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | A13SE (W)                              | 0                            | 1       | 565800 169183 |
| 9      | <b>BGS Recorded Mineral Sites</b><br>Site Name: Cobham Chalk Pit<br>Location: , Cobham, Gravesend, Kent<br>Source: British Geological Survey, National Geoscience Information Service<br>Reference: 131121<br>Type: Opencast<br><b>Status:</b> Ceased<br>Operator: Not Supplied<br>Operator Location: Not Supplied<br>Periodic Type: Cretaceous<br>Geology: White Chalk Subgroup<br>Commodity: Chalk<br>Positional Accuracy: Located by supplier to within 10m                                                                                     | A8NW (S)                               | 332                          | 1       | 565711 168841 |
| 10     | <b>BGS Recorded Mineral Sites</b><br>Site Name: Winstead Hill Chalk Pit<br>Location: , Cobham, Gravesend, Kent<br>Source: British Geological Survey, National Geoscience Information Service<br>Reference: 131119<br>Type: Opencast<br><b>Status:</b> Ceased<br>Operator: Not Supplied<br>Operator Location: Not Supplied<br>Periodic Type: Cretaceous<br>Geology: White Chalk Subgroup<br>Commodity: Chalk<br>Positional Accuracy: Located by supplier to within 10m                                                                              | A14NE (E)                              | 747                          | 1       | 566559 169267 |
| 11     | <b>BGS Recorded Mineral Sites</b><br>Site Name: Cobham Chalk Pit<br>Location: , Cobham, Gravesend, Kent<br>Source: British Geological Survey, National Geoscience Information Service<br>Reference: 131120<br>Type: Opencast<br><b>Status:</b> Ceased<br>Operator: Not Supplied<br>Operator Location: Not Supplied<br>Periodic Type: Cretaceous<br>Geology: White Chalk Subgroup<br>Commodity: Chalk<br>Positional Accuracy: Located by supplier to within 10m                                                                                     | A9NE (SE)                              | 910                          | 1       | 566622 168757 |
| 12     | <b>BGS Recorded Mineral Sites</b><br>Site Name: Jimmy Dale Pit<br>Location: , Sole Street, Gravesend, Kent<br>Source: British Geological Survey, National Geoscience Information Service<br>Reference: 130891<br>Type: Opencast<br><b>Status:</b> Ceased<br>Operator: Not Supplied<br>Operator Location: Not Supplied<br>Periodic Type: Cretaceous<br>Geology: Lewes Nodular Chalk Formation, Seafood Chalk Formation And Newhaven Chalk Formation (Undifferentiate)<br>Commodity: Chalk<br>Positional Accuracy: Located by supplier to within 10m | A8SE (S)                               | 981                          | 1       | 566110 168232 |
|        | <b>Coal Mining Affected Areas</b><br>In an area that might not be affected by coal mining                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                        |                              |         |               |
|        | <b>Mining Instability</b><br>Mining Evidence: Conclusive Rock Mining<br>Source: Ove Arup & Partners<br>Boundary Quality: As Supplied                                                                                                                                                                                                                                                                                                                                                                                                               | A13SE (W)                              | 0                            | -       | 565800 169183 |
|        | <b>Non Coal Mining Areas of Great Britain</b><br>Risk: Unlikely<br>Source: British Geological Survey, National Geoscience Information Service                                                                                                                                                                                                                                                                                                                                                                                                      | A13SE (W)                              | 0                            | 1       | 565800 169183 |
|        | <b>Non Coal Mining Areas of Great Britain</b><br>Risk: Rare<br>Source: British Geological Survey, National Geoscience Information Service                                                                                                                                                                                                                                                                                                                                                                                                          | A13SE (S)                              | 162                          | 1       | 565800 169000 |
|        | <b>Potential for Collapsible Ground Stability Hazards</b><br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service                                                                                                                                                                                                                                                                                                                                                                              | A13SE (W)                              | 0                            | 1       | 565800 169183 |
|        | <b>Potential for Compressible Ground Stability Hazards</b><br>Hazard Potential: No Hazard<br>Source: British Geological Survey, National Geoscience Information Service                                                                                                                                                                                                                                                                                                                                                                            | A13SE (W)                              | 0                            | 1       | 565800 169183 |

| Map ID | Details                                                                                                                                                                                                                                                                      | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR              |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------|---------|------------------|
|        | <b>Potential for Ground Dissolution Stability Hazards</b><br>Hazard Potential: Low<br>Source: British Geological Survey, National Geoscience Information Service                                                                                                             | A13SE (W)                              | 0                            | 1       | 565800<br>169183 |
|        | <b>Potential for Ground Dissolution Stability Hazards</b><br>Hazard Potential: High<br>Source: British Geological Survey, National Geoscience Information Service                                                                                                            | A13NE (NE)                             | 39                           | 1       | 565835<br>169230 |
|        | <b>Potential for Landslide Ground Stability Hazards</b><br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service                                                                                                          | A13SE (W)                              | 0                            | 1       | 565800<br>169183 |
|        | <b>Potential for Running Sand Ground Stability Hazards</b><br>Hazard Potential: Moderate<br>Source: British Geological Survey, National Geoscience Information Service                                                                                                       | A13SE (W)                              | 0                            | 1       | 565800<br>169183 |
|        | <b>Potential for Running Sand Ground Stability Hazards</b><br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service                                                                                                       | A13NE (NE)                             | 16                           | 1       | 565824<br>169208 |
|        | <b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b><br>Hazard Potential: No Hazard<br>Source: British Geological Survey, National Geoscience Information Service                                                                                        | A13SE (W)                              | 0                            | 1       | 565800<br>169183 |
|        | <b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b><br>Hazard Potential: Very Low<br>Source: British Geological Survey, National Geoscience Information Service                                                                                         | A13NE (NE)                             | 16                           | 1       | 565824<br>169208 |
|        | <b>Radon Potential - Radon Affected Areas</b><br>Affected Area: The property is in an Intermediate probability radon area (1 to 3% of homes are estimated to be at or above the Action Level).<br>Source: British Geological Survey, National Geoscience Information Service | A13SE (W)                              | 0                            | 1       | 565800<br>169183 |
|        | <b>Radon Potential - Radon Protection Measures</b><br>Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions<br>Source: British Geological Survey, National Geoscience Information Service                        | A13SE (W)                              | 0                            | 1       | 565800<br>169183 |

| Map ID | Details                                                                                                                                                                                                                                                                                  | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------|---------|---------------|
| 13     | <b>Contemporary Trade Directory Entries</b><br>Name: Handar Paving Ltd<br>Location: Old Forge Yard, Henhurst Road, Gravesend, DA12 3AN<br>Classification: Builders' Merchants<br><b>Status:</b> Inactive<br>Positional Accuracy: Automatically positioned to the address                 | A18SE (NE)                             | 477                          | -       | 566053 169611 |
| 14     | <b>Contemporary Trade Directory Entries</b><br>Name: Silverback Performance<br>Location: Heaver Court Farm, Church Road, Cobham, Gravesend, Kent, DA13 9AR<br>Classification: Garage Services<br><b>Status:</b> Inactive<br>Positional Accuracy: Automatically positioned to the address | A17NE (NW)                             | 943                          | -       | 565171 169908 |
| 15     | <b>Gas Pipelines</b><br>Name: FM18 - Shorne to Farningham<br>Nat Grid: Owned By National Grid<br>Diameter (mm): 750<br>Building Proximity: 62<br>Distance (m):<br>Status: Active<br>Pipe Length (m): 15494.3<br>Pipe Number: Feeder 18                                                   | A18SE (N)                              | 663                          | 6       | 565999 169838 |
| 16     | <b>Gas Pipelines</b><br>Name: FM05 - Shorne to Farningham (A2 Diversion)<br>Nat Grid: Owned By National Grid<br>Diameter (mm): 750<br>Building Proximity: 62<br>Distance (m):<br>Status: Active<br>Pipe Length (m): 1881.7<br>Pipe Number: Feeder 5                                      | A18NE (NE)                             | 823                          | 6       | 566134 169959 |

| Map ID | Details                                                                                                                                                                                   | Quadrant Reference (Compass Direction) | Estimated Distance From Site | Contact | NGR           |
|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|------------------------------|---------|---------------|
| 17     | <b>Ancient Woodland</b><br>Name: Cozenden Wood<br>Reference: 1498463<br>Area(m²): 105253.06<br>Type: Ancient and Semi-Natural Woodland                                                    | A12SW (W)                              | 941                          | 7       | 564841 169174 |
| 18     | <b>Areas of Adopted Green Belt</b><br>Authority: Gravesham Borough Council<br>Plan Name: Gravesham Local Plan - Core Strategy<br>Status: <b>Adopted</b><br>Plan Date: 30th September 2014 | A13SE (W)                              | 0                            | 8       | 565800 169183 |
| 19     | <b>Areas of Outstanding Natural Beauty</b><br>Name: Kent Downs<br>Multiple Areas: Y<br>Total Area (m2): 879004390.45<br>Designation Date: 30th July 1968<br>Source: Natural England       | A9NE (SE)                              | 774                          | 7       | 566494 168806 |
| 20     | <b>Nitrate Vulnerable Zones</b><br>Name: North Kent<br>Description: Groundwater<br>Source: Environment Agency, Head Office                                                                | A13SE (W)                              | 0                            | 9       | 565800 169183 |
| 21     | <b>Nitrate Vulnerable Zones</b><br>Name: Coastal Streams To Lower Thames Nvz<br>Description: Surface Water<br>Source: Environment Agency, Head Office                                     | A19SW (NE)                             | 602                          | 9       | 566300 169550 |

| Agency & Hydrological                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Version                                                                                                      | Update Cycle                                                                                                                                                                |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Contaminated Land Register Entries and Notices</b><br>Medway Council - Environmental Health<br>Tonbridge And Malling Borough Council - Environmental Health Department<br>Thurrock Borough Council - Environmental Health Department<br>Dartford Borough Council - Environmental Health Department<br>Gravesham Borough Council - Public Health Services<br>Sevenoaks District Council - Environmental Health Department                                                                                  | August 2013<br>January 2013<br>November 2013<br>October 2014<br>September 2013<br>September 2013             | Annual Rolling Update<br>Annual Rolling Update<br>Annually<br>Annual Rolling Update<br>Annual Rolling Update<br>Annual Rolling Update                                       |
| <b>Discharge Consents</b><br>Environment Agency - Anglian Region<br>Environment Agency - Southern Region                                                                                                                                                                                                                                                                                                                                                                                                     | April 2017<br>April 2017                                                                                     | Quarterly<br>Quarterly                                                                                                                                                      |
| <b>Enforcement and Prohibition Notices</b><br>Environment Agency - Anglian Region<br>Environment Agency - Southern Region                                                                                                                                                                                                                                                                                                                                                                                    | March 2013<br>March 2013                                                                                     | As notified<br>As notified                                                                                                                                                  |
| <b>Integrated Pollution Controls</b><br>Environment Agency - Anglian Region<br>Environment Agency - Southern Region                                                                                                                                                                                                                                                                                                                                                                                          | October 2008<br>October 2008                                                                                 | Not Applicable<br>Not Applicable                                                                                                                                            |
| <b>Integrated Pollution Prevention And Control</b><br>Environment Agency - Anglian Region<br>Environment Agency - South East Region - Kent & South London Area<br>Environment Agency - Southern Region                                                                                                                                                                                                                                                                                                       | April 2017<br>April 2017<br>April 2017                                                                       | Quarterly<br>Quarterly<br>Quarterly                                                                                                                                         |
| <b>Local Authority Integrated Pollution Prevention And Control</b><br>Tonbridge And Malling Borough Council - Environmental Health Department<br>Thurrock Borough Council - Environmental Health Department<br>Medway Council - Environmental Health<br>Gravesham Borough Council - Environmental Health Department<br>London Port Health Authority - Environmental Services<br>Dartford Borough Council - Environmental Health Department<br>Sevenoaks District Council - Environmental Health Department   | April 2014<br>February 2015<br>June 2014<br>October 2014<br>October 2014<br>September 2014<br>September 2014 | Annual Rolling Update<br>Annual Rolling Update<br>Annual Rolling Update<br>Annual Rolling Update<br>Annual Rolling Update<br>Annual Rolling Update<br>Annual Rolling Update |
| <b>Local Authority Pollution Prevention and Controls</b><br>Tonbridge And Malling Borough Council - Environmental Health Department<br>Thurrock Borough Council - Environmental Health Department<br>Medway Council - Environmental Health<br>Gravesham Borough Council - Environmental Health Department<br>London Port Health Authority - Environmental Services<br>Dartford Borough Council - Environmental Health Department<br>Sevenoaks District Council - Environmental Health Department             | April 2014<br>February 2015<br>June 2014<br>October 2014<br>October 2014<br>September 2014<br>September 2014 | Annual Rolling Update<br>Annual Rolling Update<br>Annual Rolling Update<br>Annual Rolling Update<br>Annual Rolling Update<br>Annual Rolling Update<br>Annual Rolling Update |
| <b>Local Authority Pollution Prevention and Control Enforcements</b><br>Tonbridge And Malling Borough Council - Environmental Health Department<br>Thurrock Borough Council - Environmental Health Department<br>Medway Council - Environmental Health<br>Gravesham Borough Council - Environmental Health Department<br>London Port Health Authority - Environmental Services<br>Dartford Borough Council - Environmental Health Department<br>Sevenoaks District Council - Environmental Health Department | April 2014<br>February 2015<br>June 2014<br>October 2014<br>October 2014<br>September 2014<br>September 2014 | Annual Rolling Update<br>Annual Rolling Update<br>Annual Rolling Update<br>Annual Rolling Update<br>Annual Rolling Update<br>Annual Rolling Update<br>Annual Rolling Update |
| <b>Nearest Surface Water Feature</b><br>Ordnance Survey                                                                                                                                                                                                                                                                                                                                                                                                                                                      | May 2017                                                                                                     |                                                                                                                                                                             |
| <b>Pollution Incidents to Controlled Waters</b><br>Environment Agency - Southern Region<br>Environment Agency - Anglian Region                                                                                                                                                                                                                                                                                                                                                                               | December 1999<br>September 1999                                                                              | Not Applicable<br>Not Applicable                                                                                                                                            |
| <b>Prosecutions Relating to Authorised Processes</b><br>Environment Agency - Anglian Region<br>Environment Agency - Southern Region                                                                                                                                                                                                                                                                                                                                                                          | March 2013<br>March 2013                                                                                     | As notified<br>As notified                                                                                                                                                  |

| Agency & Hydrological                                                                                                                                                                                                                                                                          | Version                                              | Update Cycle                                     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|--------------------------------------------------|
| <b>Prosecutions Relating to Controlled Waters</b><br>Environment Agency - Anglian Region<br>Environment Agency - Southern Region                                                                                                                                                               | March 2013<br>March 2013                             | As notified<br>As notified                       |
| <b>Registered Radioactive Substances</b><br>Environment Agency - Anglian Region<br>Environment Agency - Southern Region                                                                                                                                                                        | January 2015<br>January 2015                         |                                                  |
| <b>River Quality</b><br>Environment Agency - Head Office                                                                                                                                                                                                                                       | November 2001                                        | Not Applicable                                   |
| <b>River Quality Biology Sampling Points</b><br>Environment Agency - Head Office                                                                                                                                                                                                               | July 2012                                            | Annually                                         |
| <b>River Quality Chemistry Sampling Points</b><br>Environment Agency - Head Office                                                                                                                                                                                                             | July 2012                                            | Annually                                         |
| <b>Substantiated Pollution Incident Register</b><br>Environment Agency - Anglian Region - Eastern Area<br>Environment Agency - South East Region - Kent & South London Area<br>Environment Agency - Southern Region - Kent Area<br>Environment Agency - Southern Region - Kent and East Sussex | April 2017<br>April 2017<br>April 2017<br>April 2017 | Quarterly<br>Quarterly<br>Quarterly<br>Quarterly |
| <b>Water Abstractions</b><br>Environment Agency - Anglian Region<br>Environment Agency - Southern Region                                                                                                                                                                                       | April 2017<br>April 2017                             | Quarterly<br>Quarterly                           |
| <b>Water Industry Act Referrals</b><br>Environment Agency - Anglian Region<br>Environment Agency - Southern Region                                                                                                                                                                             | April 2017<br>April 2017                             | Quarterly<br>Quarterly                           |
| <b>Groundwater Vulnerability</b><br>Environment Agency - Head Office                                                                                                                                                                                                                           | April 2015                                           | Not Applicable                                   |
| <b>Drift Deposits</b><br>Environment Agency - Head Office                                                                                                                                                                                                                                      | January 1999                                         | Not Applicable                                   |
| <b>Bedrock Aquifer Designations</b><br>British Geological Survey - National Geoscience Information Service                                                                                                                                                                                     | August 2015                                          | As notified                                      |
| <b>Superficial Aquifer Designations</b><br>British Geological Survey - National Geoscience Information Service                                                                                                                                                                                 | August 2015                                          | As notified                                      |
| <b>Source Protection Zones</b><br>Environment Agency - Head Office                                                                                                                                                                                                                             | April 2017                                           | Quarterly                                        |
| <b>Extreme Flooding from Rivers or Sea without Defences</b><br>Environment Agency - Head Office                                                                                                                                                                                                | May 2017                                             | Quarterly                                        |
| <b>Flooding from Rivers or Sea without Defences</b><br>Environment Agency - Head Office                                                                                                                                                                                                        | May 2017                                             | Quarterly                                        |
| <b>Areas Benefiting from Flood Defences</b><br>Environment Agency - Head Office                                                                                                                                                                                                                | May 2017                                             | Quarterly                                        |
| <b>Flood Water Storage Areas</b><br>Environment Agency - Head Office                                                                                                                                                                                                                           | May 2017                                             | Quarterly                                        |
| <b>Flood Defences</b><br>Environment Agency - Head Office                                                                                                                                                                                                                                      | May 2017                                             | Quarterly                                        |
| <b>OS Water Network Lines</b><br>Ordnance Survey                                                                                                                                                                                                                                               | April 2017                                           | 6 Weekly                                         |
| <b>BGS Groundwater Flooding Susceptibility</b><br>British Geological Survey - National Geoscience Information Service                                                                                                                                                                          | May 2013                                             | Annually                                         |

| Waste                                                                                                                                                                                                                                                                                                                                                                                                                    | Version                                                                          | Update Cycle                                                                                                               |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| <b>BGS Recorded Landfill Sites</b><br>British Geological Survey - National Geoscience Information Service                                                                                                                                                                                                                                                                                                                | June 1996                                                                        | Not Applicable                                                                                                             |
| <b>Historical Landfill Sites</b><br>Environment Agency - Head Office                                                                                                                                                                                                                                                                                                                                                     | May 2017                                                                         | Quarterly                                                                                                                  |
| <b>Integrated Pollution Control Registered Waste Sites</b><br>Environment Agency - Anglian Region<br>Environment Agency - Southern Region                                                                                                                                                                                                                                                                                | October 2008<br>October 2008                                                     | Not Applicable<br>Not Applicable                                                                                           |
| <b>Licensed Waste Management Facilities (Landfill Boundaries)</b><br>Environment Agency - Anglian Region - Eastern Area<br>Environment Agency - South East Region - Kent & South London Area<br>Environment Agency - Southern Region - Kent Area<br>Environment Agency - Southern Region - Kent and East Sussex                                                                                                          | May 2017<br>May 2017<br>May 2017<br>May 2017                                     | Quarterly<br>Quarterly<br>Quarterly<br>Quarterly                                                                           |
| <b>Licensed Waste Management Facilities (Locations)</b><br>Environment Agency - Anglian Region - Eastern Area<br>Environment Agency - South East Region - Kent & South London Area<br>Environment Agency - Southern Region - Kent Area<br>Environment Agency - Southern Region - Kent and East Sussex                                                                                                                    | May 2017<br>May 2017<br>May 2017<br>May 2017                                     | Quarterly<br>Quarterly<br>Quarterly<br>Quarterly                                                                           |
| <b>Local Authority Landfill Coverage</b><br>Dartford Borough Council - Environmental Health Department<br>Gravesham Borough Council<br>Kent County Council - Waste Management Group<br>Medway Council - Environmental Protection Department<br>Sevenoaks District Council<br>Thurrock Borough Council - Environmental Health Department<br>Tonbridge And Malling Borough Council - Environmental Health Department       | May 2000<br>May 2000<br>May 2000<br>May 2000<br>May 2000<br>May 2000<br>May 2000 | Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable |
| <b>Local Authority Recorded Landfill Sites</b><br>Dartford Borough Council - Environmental Health Department<br>Gravesham Borough Council<br>Kent County Council - Waste Management Group<br>Medway Council - Environmental Protection Department<br>Sevenoaks District Council<br>Thurrock Borough Council - Environmental Health Department<br>Tonbridge And Malling Borough Council - Environmental Health Department | May 2000<br>May 2000<br>May 2000<br>May 2000<br>May 2000<br>May 2000<br>May 2000 | Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Applicable |
| <b>Registered Landfill Sites</b><br>Environment Agency - Anglian Region - Eastern Area<br>Environment Agency - Southern Region - Kent Area<br>Environment Agency - Southern Region - Kent and East Sussex                                                                                                                                                                                                                | March 2003<br>March 2003<br>March 2003                                           | Not Applicable<br>Not Applicable<br>Not Applicable                                                                         |
| <b>Registered Waste Transfer Sites</b><br>Environment Agency - Anglian Region - Eastern Area<br>Environment Agency - Southern Region - Kent Area<br>Environment Agency - Southern Region - Kent and East Sussex                                                                                                                                                                                                          | March 2003<br>March 2003<br>March 2003                                           | Not Applicable<br>Not Applicable<br>Not Applicable                                                                         |
| <b>Registered Waste Treatment or Disposal Sites</b><br>Environment Agency - Anglian Region - Eastern Area<br>Environment Agency - Southern Region - Kent Area<br>Environment Agency - Southern Region - Kent and East Sussex                                                                                                                                                                                             | March 2003<br>March 2003<br>March 2003                                           | Not Applicable<br>Not Applicable<br>Not Applicable                                                                         |

| Hazardous Substances                                                                                                                                                                                                                                                                                                                 | Version                                                                                                                          | Update Cycle                                                                                                                                                                                         |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Control of Major Accident Hazards Sites (COMAH)</b><br>Health and Safety Executive                                                                                                                                                                                                                                                | March 2017                                                                                                                       | Bi-Annually                                                                                                                                                                                          |
| <b>Explosive Sites</b><br>Health and Safety Executive                                                                                                                                                                                                                                                                                | March 2017                                                                                                                       | Bi-Annually                                                                                                                                                                                          |
| <b>Notification of Installations Handling Hazardous Substances (NIHHS)</b><br>Health and Safety Executive                                                                                                                                                                                                                            | November 2000                                                                                                                    | Not Applicable                                                                                                                                                                                       |
| <b>Planning Hazardous Substance Enforcements</b><br>Thurrock Borough Council - Development Control<br>Medway Council<br>Sevenoaks District Council<br>Tonbridge And Malling Borough Council<br>London Port Health Authority - Environmental Services<br>Dartford Borough Council<br>Kent County Council<br>Gravesham Borough Council | December 2015<br>February 2016<br>February 2016<br>February 2016<br>January 2008<br>January 2016<br>January 2016<br>October 2015 | Annual Rolling Update<br>Annual Rolling Update<br>Annual Rolling Update<br>Annual Rolling Update<br>Annual Rolling Update<br>Annual Rolling Update<br>Annual Rolling Update<br>Annual Rolling Update |
| <b>Planning Hazardous Substance Consents</b><br>Thurrock Borough Council - Development Control<br>Medway Council<br>Sevenoaks District Council<br>Tonbridge And Malling Borough Council<br>London Port Health Authority - Environmental Services<br>Dartford Borough Council<br>Kent County Council<br>Gravesham Borough Council     | December 2015<br>February 2016<br>February 2016<br>February 2016<br>January 2008<br>January 2016<br>January 2016<br>October 2015 | Annual Rolling Update<br>Annual Rolling Update<br>Annual Rolling Update<br>Annual Rolling Update<br>Annual Rolling Update<br>Annual Rolling Update<br>Annual Rolling Update<br>Annual Rolling Update |