

LISTERS

Geotechnical Consultants



Reading Borough Council
29 OCT 2015
Planning

Mr R Brown

Phase I Geoenvironmental Desk Study Report

1-3 Castle Crescent
READING
RG1 6AQ

15 19 21

Report No: 15.07.030
August 2015

MAIN OFFICE & LABORATORIES

Slapton Hill Barn, Blakesley Road, Slapton, Towcester, Northamptonshire. NN12 8QD
Telephone: (01327) 860060 Fax:- (01327) 860430 E.Mail:- info@listersgeotechnics.co.uk

**DOCUMENT RECORD**

Report Title Phase I Geoenvironmental Desk Study Report
Project Title New Residential Development
Project Address 1-3 Castle Crescent, Reading, RG1 6AQ
Project Number 15.07.030
Client Company Name Mr R Brown

Prepared By:

Signed.....
James Davey
Geotechnical Engineer
MESci, FGS

Checked By:

Signed.....
Amanda David
Technical Director
B.Sc (Hons), M.Sc, FGS

For and on behalf of Listers Geotechnical Consultants

Issue No	Date	Status
1	27 August 2015	Draft
2	02 September 2015	Final

© This Report is the copyright of Listers Geotechnical Consultants Ltd. Any unauthorised reproduction or usage by any person other than the addressee is strictly prohibited.

EXECUTIVE SUMMARY

Project Reference	15.07.030
Site Location	1-3 Castle Crescent, Reading, RG1 6AQ
OS Grid Reference	470940, 172790
Development Proposals	Renovation of an existing three-storey Victorian house as well as the addition of several new residential properties.
Topography	Gently sloping down towards the south.
Vegetation	The south and west of the site are overgrown with grasses and brambles and the western site boundary is marked by a mature tree line, up to 20m in height.
Existing Buildings	A centrally located disused three-storey Victorian house as well as a disused row of small terraced houses along the eastern site boundary. Numerous disused garages are also present towards the southeast of the site.
Published Geology	Lynch Hill Gravel overlying Lambeth Group clays above the Seaford and Newhaven Chalk Formations.
Site History	The current buildings are recorded on site as far back as 1879 with the exception of the garages which were built during the 1970s.
Hydrology	The Holy Brook flows from south to north approximately 263m east of the site.
Hydrogeology	Both the Lynch Hill Gravel and the Lambeth Group are Secondary A Aquifers. The underlying chalk is a Principal Aquifer.
Geotechnical Hazards	High likelihood of man-made and/or natural cavities in the chalk underlying the site.
Expected Ground Conditions	Limited Made Ground overlying Lynch Hill Gravel and the Lambeth Group which overlies the Seaford and Newhaven Chalk Formations at depth.
Potential Ground Contamination	Possible contamination associated with Made Ground deposits and localised site activities.
Risk of Soil Gases	Gas monitoring is recommended to assess risks from unrecorded historically filled in chalk pits.
Further Work Required	A Phase II site investigation is recommended to test for localised historical contamination and also probing along existing and proposed foundation lines to confirm that no further voids exist in the chalk.

This executive summary should be read in conjunction with the main report.



CONTENTS

EXECUTIVE SUMMARY

DOCUMENT RECORD	1
PHASE I GEOENVIRONMENTAL DESK STUDY REPORT	2
INTRODUCTION	2
PROPOSALS	2
SITE INFORMATION AND WALKOVER SURVEY	2
GEOLOGY	3
<i>Published Geology</i>	3
<i>Solution features</i>	4
HISTORIC BOREHOLES	4
DESK STUDY AND BACKGROUND INFORMATION	6
GENERAL	6
HISTORY OF THE SITE	6
INTERVIEWS	8
<i>Building Control</i>	8
HYDROLOGY	8
HYDROGEOLOGY	9
LANDFILL, WASTE TREATMENT AND INDUSTRIAL USAGE SITES	9
WORKED OUT GROUND/MADE GROUND	10
RADON GAS	10
RISK OF GASEOUS CONTAMINATION	11
GROUND RELATED HAZARDS	11
BACKGROUND SOIL CHEMISTRY	12
POTENTIALLY SENSITIVE LAND USES	12
CONCEPTUAL MODEL	12
GENERAL	12
<i>Potential Pollution Sources</i>	12
<i>Identified Receptors</i>	13
<i>Potential Pollutant Pathways</i>	13
SUMMARY OF ENVIRONMENTAL RISK	14
SUMMARY OF GEOTECHNICAL RISK	14
CONCLUSIONS AND RECOMMENDATIONS FOR FURTHER WORK	15
REFERENCES	16

APPENDICES

APPENDIX A - PLANS AND PHOTOGRAPHS

- Site Location Plan
- Plan Showing Existing Site Layout
- Plan Showing Development Proposals
- Site Photographs

APPENDIX B - DESK STUDY INFORMATION

- Envirocheck Datasheet
- Index, Groundwater Vulnerability, Bedrock Aquifer, Superficial Aquifer, Source Protection Zones and Sensitive Land Use Maps
- Site Sensitivity, Flood Borehole and Estimated Soil Chemistry Maps
- Historical Ordnance Survey and National Grid Maps

PHASE I GEOENVIRONMENTAL DESK STUDY REPORT

INTRODUCTION

A Phase I Geoenvironmental desk study has been undertaken at 1-3 Castle Crescent, Reading, RG1 6AQ. A Site Location Plan is provided in Appendix A.

The Ordnance Survey National Grid reference for the site is approximately 470940, 172790.

This report describes the desk study and walkover survey carried out by Listers Geotechnical Consultants in order to provide an evaluation of the potential ground conditions and possible extent of any soil contamination present on the site. The report presents a preliminary human health and groundwater risk assessment based on the findings of the desk study information, and information on the potential geotechnical conditions that may be encountered.

Instructions to undertake the investigation were received from Mr R Brown, in budget estimate acceptance form, dated 28th May 2015.

This report has been prepared for the sole use of the client. This report shall not be relied upon by third parties without the express written authority of Listers Geotechnical Consultants. If an unauthorised third party comes into possession of this report they must not rely on it and the authors owe them no duty of care and skill.

PROPOSALS

It is proposed to redevelop the site including the redevelopment of the existing three-storey building as well as the addition of several new two-storey residential dwellings with associated communal gardens, access road and car parking. The preliminary geoenvironmental risk assessment has been prepared in support of the planning application for the development.

SITE INFORMATION AND WALKOVER SURVEY

A walkover survey of the site and its immediate surrounds was undertaken on the 28th July 2015. A selection of site photographs is provided in Appendix A along with a plan showing the existing site layout.

The site lies in a predominantly residential area, and is currently occupied by a large disused three-storey house as well as a smaller row of disused two-storey terraces and numerous disused garages/storage bays.

The site consists of an approximately rectangular shaped parcel of land fronting onto Castle Crescent to the north, trending approximately north-south.

The site gently slopes down towards the south and is bordered by a brick wall to the north, an approximately 2m-tall wooden fence to the south, a mature treeline to the west and a small brick wall and wire fence to the east. Beyond the northern and eastern site boundaries lie Castle Crescent and Garnet Hill, respectively, while residential properties and associated gardens lie beyond the southern and western site boundaries.

Measuring an average of approximately 65m by 45m the site extends to approximately 0.29ha in area.

On the site area itself there was a centrally located three-storey disused house with a hardcore courtyard in front of the house and an overgrown garden area to the rear. A hardcore track ran down the eastern side of the house, providing access to numerous disused garages, missing doors and roofs. The garages contained a variety of materials including bathroom tiles, chairs, gas canisters, insulation rolls, roof tiles and other building materials. Along the track in front of the garages was a small amount of ash, evidencing the burning of waste on site.

Adjacent to the garages was a small disused two-storey detached house alongside the eastern site boundary. The house was in a heavy state of disrepair and was partially overgrown with vegetation.

GEOLOGY

Published Geology

Reference to the British Geological Survey 1:50,000 scale map and other published geological information on the area indicate that the site is underlain by the Lynch Hill Gravel above the Lambeth Group of Palaeogene age.

The Lynch Hill Gravel is a superficial sand and gravel deposit formed in a river-dominated environment.

The Lambeth Group is generally represented by vertically and laterally variable clays, some silty or sandy, highly glauconitic with flint nodules at the base. The site lies at the edge of the Lambeth Group extent and thus it is likely to be relatively thin in the area.

The extensive Seaford and Newhaven Chalk Formations underlie the Lambeth Group strata.

There are numerous areas of worked ground, closest 200m south of the site, and made ground marked on the map in the vicinity of the site.

Solution Features

Chalk, as a calcium-carbonate rich rock, is highly susceptible to dissolution by water containing carbon dioxide. This dissolution can create three common types of features within the chalk, grouped together under the generic term 'dissolution features'. These features include:

- *Sinkholes:* Depressions at the ground surface caused by the collapse of overlying chalk or superficial deposits into underground voids created by dissolution. Shape and size dependent on underlying void feature
- *Solution pipes:* A feature in the surface of the Chalk caused by increased dissolution in an area of closely spaced discontinuities. These features may, or may not, have a ground surface expression. Up to 20 metres diameter through commonly much smaller
- *Swallow Holes:* A void within the surface of the Chalk where a stream is 'swallowed' by the Chalk to flow underground. Often occur at the junction of impermeable strata and Chalk. Infilled ancient swallow holes do exist where streams used to flow and may not have any surface expression. Up to 14m in diameter, through commonly a few metres.

Published geological information along with knowledge of conditions at nearby sites, established that the general area was prone to natural dissolution features within the Chalk. As such, a search for man-made and natural cavities in the area (up to date as of November 2014) revealed the presence of a probable bellpit chalk mine in the northeast of the site as well as a series of chalk mine tunnels and adit/shaft entrances within 50m of the site including; 17m to the northeast, 23m to the southeast and 35m to the east. There are a total of six man-made cavity entries in the database within 100m of the site.

Additionally, there are five instances of natural cavities within 100m of the site including solution pipes 21m east of the site, 32m to the southeast, 46m to the northeast, 51m to the southeast and 63m to the northeast.

As such the perceived risk of the existence of dissolution features beneath the site is high and it is recommended that further investigation be undertaken to establish the risks.

HISTORIC BOREHOLES

The records of six historic boreholes, put down nearby the site, have been obtained from the British Geological Survey.

One borehole approximately 200m north-west of the site encountered approximately 2m of superficial gravel deposits overlying approximately 4m of Reading Beds (part of the upper Lambeth Group) clays

and sands. Further towards the east the chalk was encountered, with five boreholes between 200-300m southeast of the site all encountering chalk at differing depths.

A borehole approximately 200m south-east of the site encountered approximately 3.50m of Reading Beds overlying the Upper Chalk, whilst boreholes approximately 100m further southeast encountered between 1.65 and 3.70m of Made Ground directly overlying the chalk beds.

DESK STUDY AND BACKGROUND INFORMATION

GENERAL

A desk study review of the site and its history has been undertaken to establish the former land usage and the potential for any historically derived sources of chemical contamination. A copy of the desk study information is presented in Appendix B of this report.

It should be noted that the information provided in the desk study is obtained from independent third party sources. It is provided in good faith, but no guarantee can be provided as to its accuracy. The Client should make independent enquiries on information provided in the desk study information that may impact on the proposed development. The desk study information is not necessarily exhaustive and further information relevant to the site may be available from other sources.

The desk study comprises a review of the following consultations and information sources:

- Environment Agency (EA)
- Natural England
- Health Protection Agency
- National Geoscience Information Service
- British Geological Survey (BGS)
- Contemporary Trade Directories
- Historical Ordnance Survey maps

Information from the above referenced sources has been utilised to develop a conceptual model of the site for use in the geotechnical appraisal and source-pathway-receptor risk assessment.

HISTORY OF THE SITE

The history of the site has been established by reviewing the historical Ordnance Survey maps and aerial photography of the area, collected as part of the desk study information. This has established the following:

Time Period	Historical usage of the site	Historical usage of the surrounding Area
1879-1912	The site has a large detached house towards the centre, with an elongate detached building trending approximately north-south along the eastern site boundary. The remainder of the site is vegetated, with the exception of a semi-circular driveway to the north of the central house from approximately 1899 onwards.	The site fronts onto Castle Crescent to the north, with Garnet Street running along its eastern boundary. Open land lies to the south of the site, whilst the western site boundary borders the grounds of another detached property. At the start of this period the site area is surrounded by a mixture of houses and open land, with Avenue Works, a brick, tile and pottery works, located approximately 300m southwest of the site. Coley Pottery is recorded 110m to the south-east. By the turn of the century both of the works were demolished and much of the open land to the south of the site was developed for residential housing. The Basingstoke Branch of the Great Western Railway runs approximately north-south, 800m to the west of the site while the Coley Branch trends northeast to southwest approximately 700m south of the site. Two old gravel pits are marked approximately 900m to the southwest and 1100m to the northwest. Holy Brook flows from south to north approximately 200m east of the site. A possible area of worked out ground is present approximately 20m southeast of the site as well as two other possible excavations approximately 100m to the southeast of the site.
1931- 1969	The elongate detached building along the eastern site boundary is recorded as a row of seven terraced houses from 1931 onwards, with the addition of a small square detached building towards the south-eastern corner of the site.	The Preserve Works are marked approximately 700m southeast of the site and a printing works and Waterloo Kiln brick and tiles works are both recorded approximately 1000m to the southeast. Towards the end of this period an industrial estate covering an area extending from approximately 100m to 1000m southeast of the site grows in size with the addition of numerous factories and industrial units.

Time Period	Historical usage of the site	Historical usage of the surrounding Area
1976 - 2015	In addition to the existing buildings on site, numerous garages are recorded in a terrace, trending approximately north-south through the centre of the site, to the south of the central detached house.	Residential development in the area surrounding the site has continued to the present day. The reservoir 800m to the west of the site is now recorded as disused. The Coley Branch of the Great Western Railway is recorded as dismantled from the middle of this period onwards. The A33 dual carriageway trends approximately north-south approximately 100m east of the site. Further development of the industrial estate area extending south-eastwards of the site has also taken place throughout this period.

INTERVIEWS

Contact was made with Reading Borough Council to speak with both Building Control for further information regarding the potential for chalk mining and dissolution features beneath the site and its immediate area:

Building Control

The local Building Control Officer, Mr Robert Hopper, Tel: 0118 937 2428, provided a link to a report available on their website regarding the investigation and subsequent stabilisation of old chalk workings within the site area: <http://beta.reading.gov.uk/article/3632/Field-Road>. The Summary Interpretative Geotechnical Report for Historical Chalk Mine Investigations and Stabilisation Works, by Peter Brett Associates, March 2012, describes detailed investigation of chalk mining in the area, both in 2000 and 2005/2006 using boreholes, probes, CCTV and laser surveys. Confirmed voids were stabilised using grouting techniques.

At 1 & 3 Castle Crescent, 124 rotary boreholes were put down along with a CCTV survey and the bellpit chalk mine in the northeast of the site itself was stabilised using 25 grout holes and 59.3 tonnes of grout.

HYDROLOGY

The nearest surface watercourse is the Holy Brook which flows towards the north, approximately 263m to the east of the site. In this area both the Holy Brook and the nearby River Kennet (approximately 380m east of the site) have been designated as River Quality B with a flow of $<0.31\text{m}^3/\text{s}$ and $<20\text{m}^3/\text{s}$, respectively.



The River Quality scale is a grading system established by the Environment Agency and is based on dissolved oxygen, biological oxygen demand and ammonia content of the river. Grade A is classified as being very good, whilst Grade F is classified as being bad.

There is one current surface water abstraction license located within 1000m of the site. Oracle Shopping Centre Ltd owns the license 712m to the northeast of the site to maintain a pond throughflow.

HYDROGEOLOGY

Information obtained from the Environment Agency indicates that the site is located on a Secondary A Aquifer, the Lynch Hill Gravel. The Lambeth Group beneath the gravels is also a Secondary A Aquifer. Additionally, the underlying Seaford and Newhaven Chalk Formations are classified as a Principal Aquifer.

The aquifer designation data is based on geological mapping provided by the British Geological Survey. The maps are divided into two different types of aquifer designation:

- **Superficial (Drift)** - permeable unconsolidated (loose) deposits. For example, sands and gravels.
- **Bedrock** - solid permeable formations e.g. sandstone, chalk and limestone.

For each type there are Principal, Secondary A, Secondary B and Unproductive Strata, each with a decreasing rank of importance.

There is one current groundwater abstraction license located within 1000m of the site. A retail outlet owns the license approximately 720m to the north of the site for drinking, cooking, sanitary and cooking purposes.

According to information provided by the Environment Agency the site is outside of any Source Protection Zones (SPZs). An SPZ is a protection zone placed around a well or borehole that supplies groundwater of potable quality.

There have been ten pollution incidents to controlled waters recorded within 250m of the site. The majority of the incidents took place approximately 180m north of the site and have involved oils, chemical and miscellaneous urban run-off, however, all of the incidents were classified as 'minor'. It is considered unlikely that the incidents would have affected the site itself.

LANDFILL, WASTE TREATMENT AND INDUSTRIAL USAGE SITES

Reference to records from the BGS, the Environment Agency and the Local Authority indicates that there is one waste treatment site and one waste management facility within 1000m of the site area. Both

of these licenses are associated with a scrapyard/metal recycling facility approximately 950m northwest of the site. There are no waste transfer sites within 1000m of the site.

Reference to records also indicates that there is one historical landfill disposal site within 1000m of the site. The landfill was located approximately 786m to the southeast of the site and dealt with inert and industrial waste although input dates are unknown.

There are eleven registered Local Authority Pollution Control Licenses within 1000m of the site. The closest of these refers to the Berkeley Service Station approximately 128m south of the site. Others are registered to nearby petrol filling stations, dry cleaners, animal incinerators, waste oil burners and car respraying services.

There are eighteen active and inactive trade directory entries/industrial sites that have been found within 250m of the site. These include breakdown recovery, builders merchants, distribution services, petrol filling stations, car dealers and a hospital.

The nearest active fuel filling station is identified as the ESSO garage on Berkeley Avenue, approximately 130m to the south of the site.

WORKED OUT GROUND/MADE GROUND

Worked out ground is recorded approximately 200-300m south of the site, associated with outcropping/shallow chalk deposits historically mined. Further areas of possible worked out ground are associated with the Coley Pottery, approximately 110m southeast of the site, with the closest possible historic excavation approximately 20m east of the site.

Further areas of worked out ground and infilled ground are present approximately 500-600m southeast of the site associated with a residential development at the top of a slope.

An approximately rectangular area of Made Ground is also recorded approximately 750-800m west of the site associated with an infilled/covered reservoir.

RADON GAS

Envirocheck utilise information from the Health Protection Agency (HPA) to determine if the site is within a radon affected area and the British Geological Survey (BGS) database to determine if radon protection is considered necessary. The BGS data complies with the BR 211, 'Radon: guidance on protective measures for new dwellings' and indicates that no radon gas protection is required for new dwellings or extensions.



RISK OF GASEOUS CONTAMINATION

We have provisionally assessed the risk of ground gas impacting the site, by reference to guidance given in the paper "A pragmatic approach to ground gas risk assessment for the 21st Century" Card and Wilson, 2011. This is a follow up paper to the CIRIA Report 665 and is compatible with that document.

- No credible sources or pathways for landfill gas migration from an off-site landfill have been identified. However, there is the possibility of unrecorded filled in workings near to the site.
- The site has not been a registered landfill.
- The Made Ground is not expected to be 5m deep or an average of 3m in thickness.
- The site is not located directly on a carbonate rich rock that can produce carbon dioxide.
- Radon protection measures are not required for this site.
- Table 2 in the Card and Wilson 2011 paper has been referenced and the site does not lie on a potential naturally organic soil or humic or degradable Made Ground soil, as defined in this table.

As such, it is considered that gas monitoring would be prudent at this site to rule out the possibilities of migrating gases from unrecorded landfilling.

GROUND RELATED HAZARDS

The desk study information identified that the site lies within a zone with a high density of both man-made and natural cavities in the Upper Chalk Formation. These include a bellpit chalk mine in the northeast of the site as well as a series of chalk mine tunnels and adit/shaft entrances within 50m of the site including 17m to the northeast, 23m to the southeast and 35m to the east. There are a total of six man-made cavity entries in the database within 100m of the site.

Additionally, there are five instances of natural cavities within 100m of the site including solution pipes 21m east of the site, 32m to the southeast, 46m to the northeast, 51m to the southeast and 63m to the northeast.

The risk of subsidence due to shrinking and swelling clays is recorded to be moderate.

The risk of subsidence on-site from the following ground related hazards is also recorded to be low, very low or no hazard:

- Collapsible deposits
- Compressible deposits

- Running sands
- Landslip

BACKGROUND SOIL CHEMISTRY

Information from the BGS regarding background levels of some heavy metals in the natural soils estimates that soil in the site area has the following mean levels of arsenic, cadmium, chromium, lead and nickel:

Contaminant	Mean Level in Soil (mg/kg)
Arsenic	15-25
Cadmium	<1.8
Chromium	60-90
Lead	<150
Nickel	15-30

These concentrations are all well below the generic environmental screening standards for a residential.

POTENTIALLY SENSITIVE LAND USES

The site is not located in close proximity to any environmentally sensitive land uses.

CONCEPTUAL MODEL

GENERAL

A preliminary risk assessment has been carried out using the source-pathway-receptor principle to create a conceptual model for the site. Potential sources of contamination have been assessed using the Contaminated Land Exposure Assessment (CLEA) Guidelines, and the fact that a pathway must exist between a potential source and an identified receptor for there to be a risk, has been taken into account.

Potential Pollution Sources

The results of the desk study and walkover indicate that the following potential sources of ground contamination are present at or in close proximity to the site:

- Made Ground is likely to be present at the site associated with historical construction and demolition of historical buildings.

- Potential for deep Made Ground associated with historical chalk mining onsite.
- Contaminants associated with the burning of waste on site or the storage of contaminants such as oils in the garages on-site.
- Migrating ground gases from unrecorded landfilling of nearby chalk pits.

Identified Receptors

The following receptors with regard to human health have been identified at the site:

- End users of the site (residents).
- Surrounding residents.
- Construction workers for the new development/demolition contractors.

The following receptors with regard to the environment and controlled waters have been identified at the site:

- Controlled Waters - the Holy Brook, 260m to the east of the site.
- Controlled Waters - the Secondary A Aquifers beneath the site, the Lynch Hill Gravel and the Lambeth Group.

Potential Pollutant Pathways

It is considered that potential pathways exist between these potential sources and the above identified receptors.

For human health these include:

- Direct soil ingestion of soil in exposed soft landscaped areas.
- Inhalation of indoor and outdoor vapours particularly volatile organic compounds.
- Inhalation of indoor and outdoor dust.
- Migration of ground gases into the buildings.

For controlled waters these include:

- Migration of contaminants through the unsaturated zone.
- Migration of contaminants through the groundwater.
- Movement of contaminants through drains or services runs.

SUMMARY OF ENVIRONMENTAL RISK

Desk study research identified two main potential contamination sources on or nearby to the site. These include Made Ground associated with the historic construction/demolition works and onsite chalk mining as well as the small-scale burning of waste and possible storage of oils or other contaminants in the garages towards the southeast of the site.

Made Ground is likely to be present across the eastern half of the site associated with historic building works as well as the potential for deep Made Ground in the northeast of the site, and in the local vicinity, associated with historic chalk mining activities. There is the potential for localised impacted soils from the storage of oils and other materials in the garages in the southeast area of the site and from the ashes in the same area.

The likelihood of soil contamination on site is reduced due to the reasonably widespread concrete hard standing across the garage area and the area designated for the burning of waste.

The British Geological Survey soil geochemistry estimates suggest that many of the key metalliferous contaminants fall below 'Category Four Screening Levels' (C4SLs) and 'Suitable For Use Levels' (S4ULs) for residential developments.

The risk to human health and groundwater receptors from soil contamination is considered to be low, while the risk associated with potential migrating ground gases is dependent on the presence of unrecorded landfilling associated with historic mining activities both on and in the vicinity of the site.

On the basis of the information obtained and reviewed within this report, the potential risk of contamination on or proximal to the site is considered to be low.

SUMMARY OF GEOTECHNICAL RISK

Based on a comprehensive search of British Geological Survey resources as well as local historic borehole logs, the Lynch Hill Gravel is expected to overlie the Lambeth Group, which in turn are underlain by the Seaford and Newhaven Chalk Formations.

The Lynch Hill Gravel and the Lambeth Group clays are expected to accommodate adequate bearing pressures for conventional strip footings. However, a piled solution may be required if voids are identified in the Seaford and Newhaven Chalk Formations or if higher loads are required.

Desk study information confirmed the presence of a man-made chalk bell-pit in the northeast of the site as well as a series of chalk mine tunnels and adit/shaft entrances within 50m of the site and five instances of natural cavities within 100m. However, the report by Peter Brett Associates shows that the

bell-pit beneath the site area was stabilised as part of the works and thus resulting risks to future development are much lower.

Shallow foundations will need to be capable of bridging a potential future solution feature or void up to a width of 5m in diameter using a raft or orthogonal grillages, CIRIA C574. Further discussion should be held with the building control regulator.

Care should also be taken when employing soakaway infiltration systems to cater for surface water run-off. These structures can be a catalyst for dissolution features and must be placed away from any buildings as described in CIRIA C574.

CONCLUSIONS AND RECOMMENDATIONS FOR FURTHER WORK

The subject site has hosted a large three storey detached house as well as small row of terraced houses along its eastern boundary since the beginning of the twentieth century. Additionally, numerous garages were used for storage on site from the mid-1970s onwards.

As such, it is considered that the soils below the site area may be locally contaminated. It is recommended that a Phase II site investigation including contamination testing is carried out to establish the environmental risks associated with the soils on site. Given the potential contaminants on site, a general screening for commonly occurring contaminants along with more specific testing for polyaromatic hydrocarbons (PAH) and total petroleum hydrocarbons (TPH) is recommended.

Should any soil contamination be identified then it is considered that a simple localised clean soil cover system would be sufficient to remove the pathway between the contaminated soils and the receptors.

It is recommended that some simple gas monitoring is undertaken at the site to assess risks from potential migrating ground gases in the local area.

Extensive borehole investigation was previously undertaken at the site by Peter Brett Associates which identified the bell-pit chalk mine in the northeast. This was subsequently stabilised with grout.

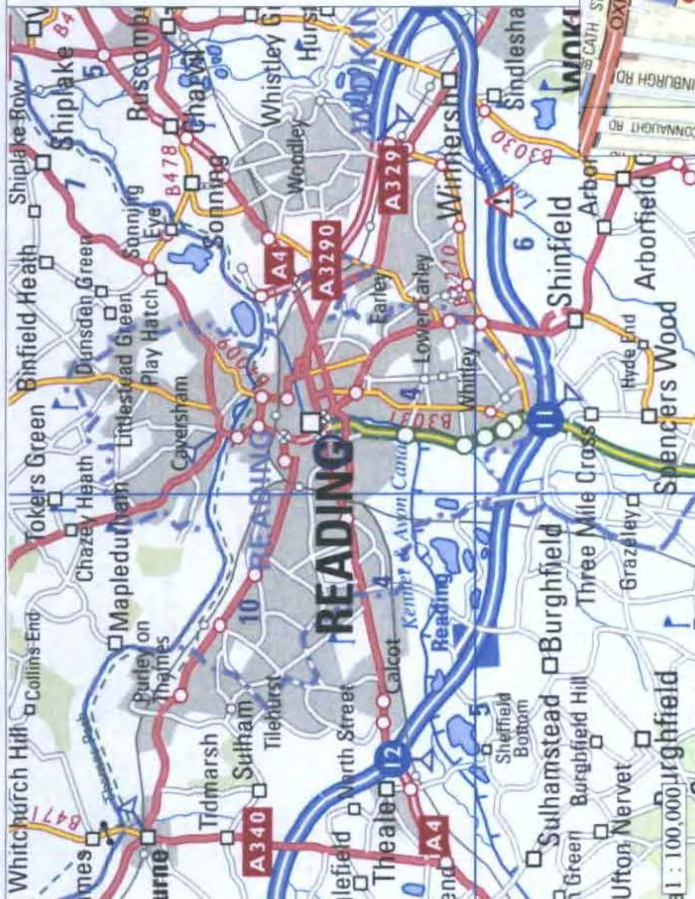
In order to minimise risks from potential further voids beneath the site, it is recommended that dynamic probing is undertaken along the proposed foundation lines and around the perimeter of existing house at an early stage so that any problems may be addressed as soon as possible.

The conclusions of this report should be approved by the Local Authority as soon as possible to avoid delays to the development.

REFERENCES

1. Building Research Establishment (BRE) BR 211, Radon: guidance on protective measures for new buildings. 2007.
2. National House Building Council (NHBC) Standards, Chapter 4.2 Building Near Trees. 2011.
3. National House Building Council (NHBC) Standards, Chapter 4.1 Land Quality – Managing Ground Conditions. 2011.
4. Environment Agency, 'The Model Procedures for the Management of Land Contamination', CLR 11, 2004
5. Health and Safety Executive (HSE), "Protection of Workers and the General Public during Development of Contaminated Land" HS(G) 66. HMSO London 1991.
6. Environment Agency, 'Human Health Toxicological Assessment of Contaminants in Soil', August 2008
7. Site Investigations, Code of Practice, BS5930, 1999+A2 2010
8. Investigation of Potentially Contaminated Sites – Code of Practice, BS10175, 2011
9. G Card and S Wilson, An Alternative Approach for Ground Gas Risk Assessment, 2011.
10. CIRIA C574, 'Engineering in Chalk', 2002
11. Assessing Risks Posed by Hazardous Ground Gases to Buildings, CIRIA C665, 2007.
12. Code of practice for the characterization and remediation from ground gas in affected developments, BS8485:2007.
13. Foundations, BS8004, 2000.

APPENDIX A
PLANS AND PHOTOGRAPHS



Approximate Site Location

Listers Geotechnical Consultants

Slapton Hill Barn.
Blakenley Road.
Slapton.
Towcester.
Northants
NN12 5DD.

Telephone: (01327) 860060
Fax: (01327) 860430
E-mail: info@igiersaerotechnics.co.uk

Site Location Plan

Site: 1-3 Castle Crescent, Reading

Scale: NTS

Job No.: 15.07.030



Listers Geotechnical Consultants

Slapton Hill Farm,
Blakeney Road,
Slapton,
Towcester,
Northants
NN12 8QD



Telephone: (01327) 860660
Fax: (01327) 860430
E-mail: info@listersgeotechnical.co.uk

Proposed Site Layout

Site: 1-3 Castle Crescent, Reading

Scale: NTS Job No.: 15.07.030



Three-storey Victorian house towards the centre of the site.



Hardcore courtyard to the front of the site with large coniferous tree along the western site boundary.



Overgrown area to the west and south-west of the site.



Disused terraced houses trending north-south along the eastern site boundary.



Area used for burning waste towards the east of the site.



Disused garages typically used to store building materials.

APPENDIX B
DESK STUDY INFORMATION

Geology 1:50,000 Maps Legends

Artificial Ground and Landslip

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	WMGR	Infilled Ground	Artificial Deposit	Cenozoic - Cenozoic
	WGR	Worked Ground (Undivided)	Void	Holocene - Holocene
	MGR	Made Ground (Undivided)	Artificial Deposit	Holocene - Holocene

Superficial Geology

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	ALV	Alluvium	Clay, Silt, Sand and Gravel	Flandrian - Flandrian
	KPGR	Kempston Park Gravel Formation	Sand and Gravel	Devensian - Devensian
	LASI	Langley Silt Member	Clay and Silt	Devensian - Devensian
	BGGR	Beetham Grange Gravel Member	Sand and Gravel	Devensian - Devensian
	LHGR	Lynch Hill Gravel Member	Sand and Gravel	Wolstonian - Wolstonian
	TPGR	Taplow Gravel Formation	Sand and Gravel	Wolstonian - Wolstonian
	BHT	Boyn Hill Gravel Member	Sand and Gravel	Wolstonian - Hoxnian
	HEAD	Head	Gravel, Sand, Silt and Clay	Quaternary - Quaternary
	HEAD	Head	Clay, Silt, Sand and Gravel	Quaternary - Quaternary
	RTD6	River Terrace Deposits, 6	Sand and Gravel	Quaternary - Quaternary

Bedrock and Faults

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	LC	London Clay Formation	Clay, Silt and Sand	Eocene - Eocene
	LMBE	Lambeth Group	Clay, Silt and Sand	Paleocene - Paleocene
	SNCK	Seaford Chalk Formation and Newhaven Chalk Formation (Undifferentiated)	Chalk	Cenozoic - Cenozoic
		Faults		

Geology 1:50,000 Maps

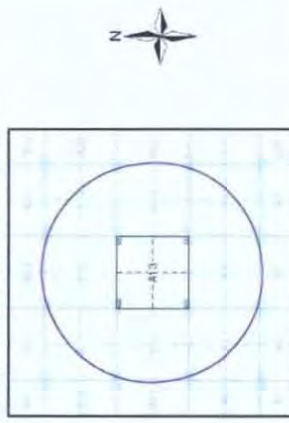
This report contains geological map extracts taken from the BGS Digital Geological map of Great Britain at 1:50,000 scale and is designed for users carrying out preliminary site assessments who require geological maps for the area around the site. This mapping may be more up to date than previously published paper maps.

The various geological layers - artificial and landslip deposits, superficial geology and solid (bedrock) geology are displayed in separate maps, but superimposed on the final 'Combined Surface Geology' map. All map legends feature on this page. Not all layers have complete nationwide coverage, so availability of data for relevant map sheets is indicated below.

Geology 1:50,000 Maps Coverage

Map ID:	1
Map Sheet No:	200
Map Name:	Reading
Map Date:	2000
Bedrock Geology:	Available
Superficial Geology:	Available
Artificial Geology:	Available
Faults:	Not Supplied
Landslip:	Not Available
Rock Segments:	Not Supplied

Geology 1:50,000 Maps - Slice A



Order Details:

Order Number: 70522890_1_1
Customer Reference: 15.07.030
National Grid Reference: 470940, 172790
Slice: A
Site Area (Ha): 0.29
Search Buffer (m): 1000

Site Details:

Flat 1, 3 Castle Crescent, READING, RG1 6AQ

Artificial Ground and Landslip

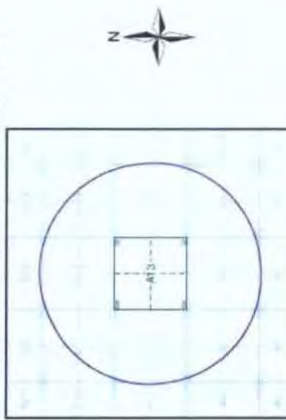
Artificial ground is a term used by BGS for those areas where the ground surface has been significantly modified by human activity. Information about previously developed ground is especially important, as it is often associated with potentially contaminated material, unpredictable engineering conditions and unstable ground.

Artificial ground includes:

- Made ground - man-made deposits such as embankments and spoil heaps on the natural ground surface.
- Worked ground - areas where the ground has been cut away such as quarries and road cuttings.
- Infilled ground - areas where the ground has been cut away then wholly or partially backfilled.
- Landscaped ground - areas where the surface has been reshaped.
- Disturbed ground - areas of ill-defined shallow or near surface mineral workings where it is impracticable to map made and worked ground separately.

Mass movement (landslip) deposits on BGS geological maps are primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground. The dataset also includes foundered strata, where the ground has collapsed due to subsidence.

Artificial Ground and Landslip Map - Slice A



Order Details:

Order Number: 70522890_1.1
 Customer Reference: 15.07.030
 National Grid Reference: 470940, 172790
 Slice: A
 Site Area (Ha): 0.29
 Search Buffer (m): 1000

Site Details:

Flat 1, 3 Castle Crescent, READING, RG1 6AQ

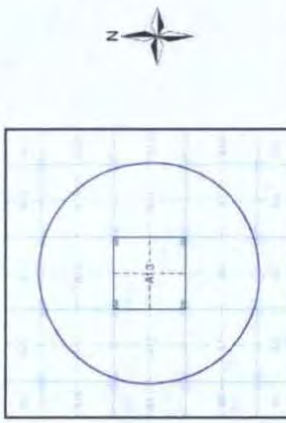
Superficial Geology

Superficial Deposits are the youngest geological deposits formed during the most recent period of geological time, the Quaternary, which extends back about 1.8 million years from the present.

They rest on older deposits or rocks referred to as Bedrock. This dataset contains Superficial deposits that are of natural origin and 'in place'. Other superficial strata may be held in the Mass Movement dataset where they have been moved, or in the Artificial Ground dataset where they are of man-made origin.

Most of these Superficial deposits are unconsolidated sediments such as gravel, sand, silt and clay, and onshore they form relatively thin, often discontinuous patches or larger spreads.

Superficial Geology Map - Slice A

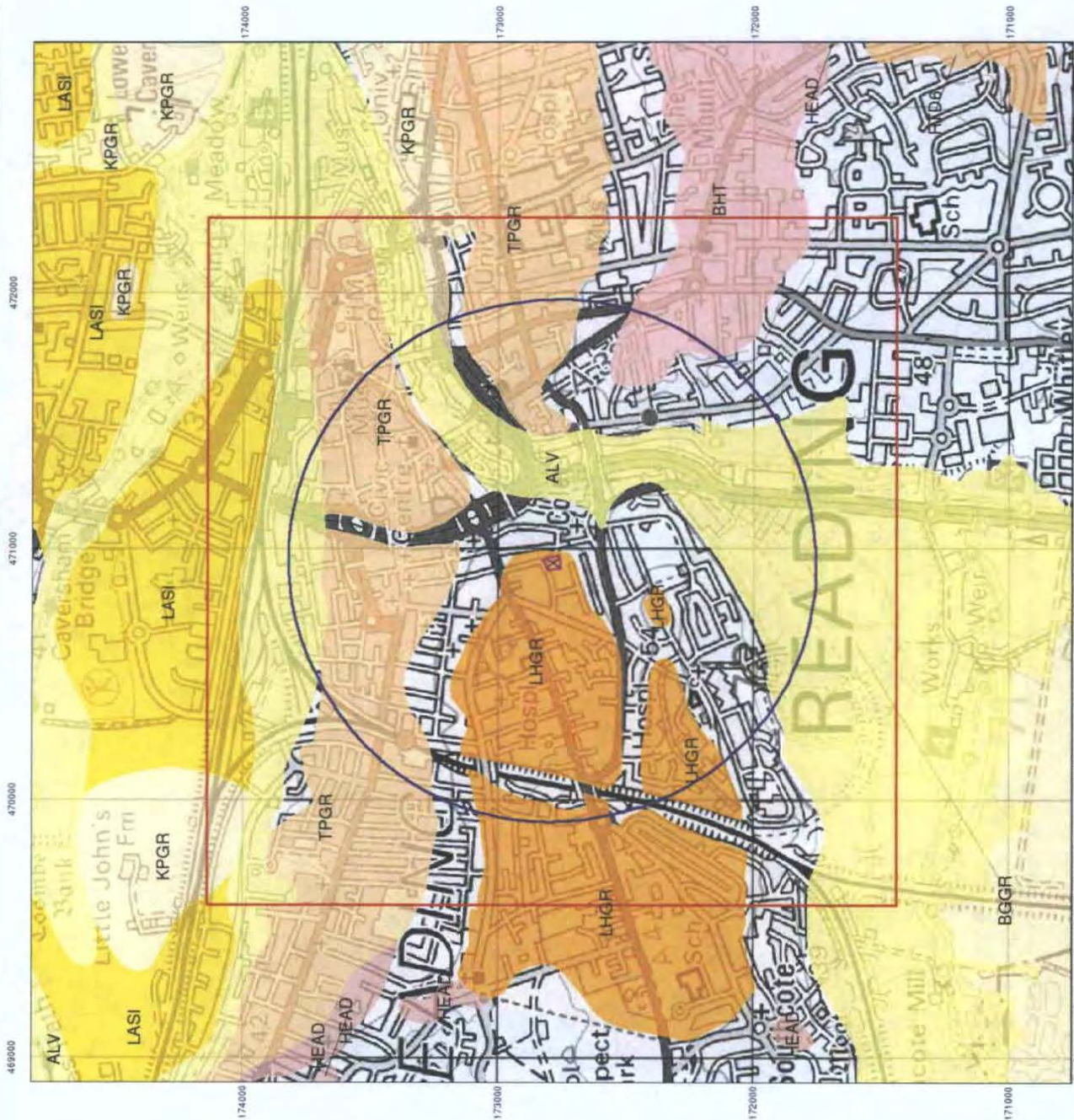


Order Details:

Order Number: 70522890_1_1
Customer Reference: 15.07.030
National Grid Reference: 470940, 172790
Slice: A
Site Area (Ha): 0.29
Search Buffer (m): 1000

Site Details:

Flat 1, 3 Castla Crescent, READING, RG1 6AQ



Bedrock and Faults

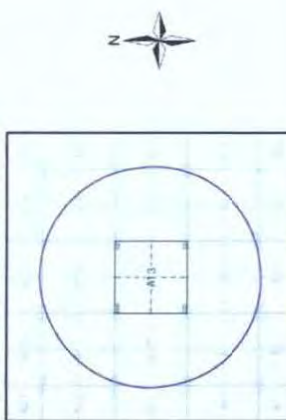
Bedrock geology is a term used for the main mass of rocks forming the Earth and are present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

The bedrock has formed over vast lengths of geological time ranging from ancient and highly altered rocks of the Proterozoic, some 2500 million years ago, or older, up to the relatively young Pliocene, 1.8 million years ago.

The bedrock geology includes many lithologies, often classified into three types based on origin: igneous, metamorphic and sedimentary.

The BGS Faults and Rock Segments dataset includes geological faults (e.g. normal, thrust), and thin beds mapped as lines (e.g. coal seam, gypsum bed). Some of these are linked to other particular 1:50,000 Geology datasets, for example, coal seams are part of the bedrock sequence, most faults and mineral veins primarily affect the bedrock but cut across the strata and post date its deposition.

Bedrock and Faults Map - Slice A



Order Details:

Order Number: 70522890_1_1
 Customer Reference: 15.07.030
 National Grid Reference: 470840, 172790
 Slice: A
 Site Area (Ha): 0.28
 Search Buffer (m): 1000

Site Details:

Flat 1, 3 Castle Crescent, READING, RG1 6AQ

Combined Surface Geology

The Combined Surface Geology map combines all the previous maps into one combined geological overview of your site.

Please consult the legends to the previous maps to interpret the Combined "Surface Geology" map.

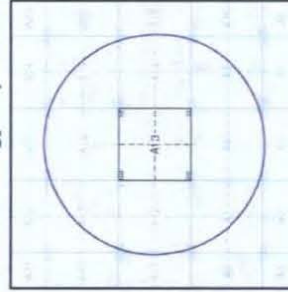
Additional Information

More information on 1:50,000 Geological mapping and explanations of rock classifications can be found on the BGS website. Using the LEX Codes in this report, further descriptions of rock types can be obtained by interrogating the 'BGS Lexicon of Named Rock Units'. This database can be accessed by following the 'Information and Data' link on the BGS website.

Contact

British Geological Survey
Kingsley Dunham Centre
Keyworth
Nottingham
NG12 5GG
Telephone: 0115 936 3143
Fax: 0115 936 3276
email: enquiries@bgs.ac.uk
website: www.bgs.ac.uk

Combined Geology Map - Slice A

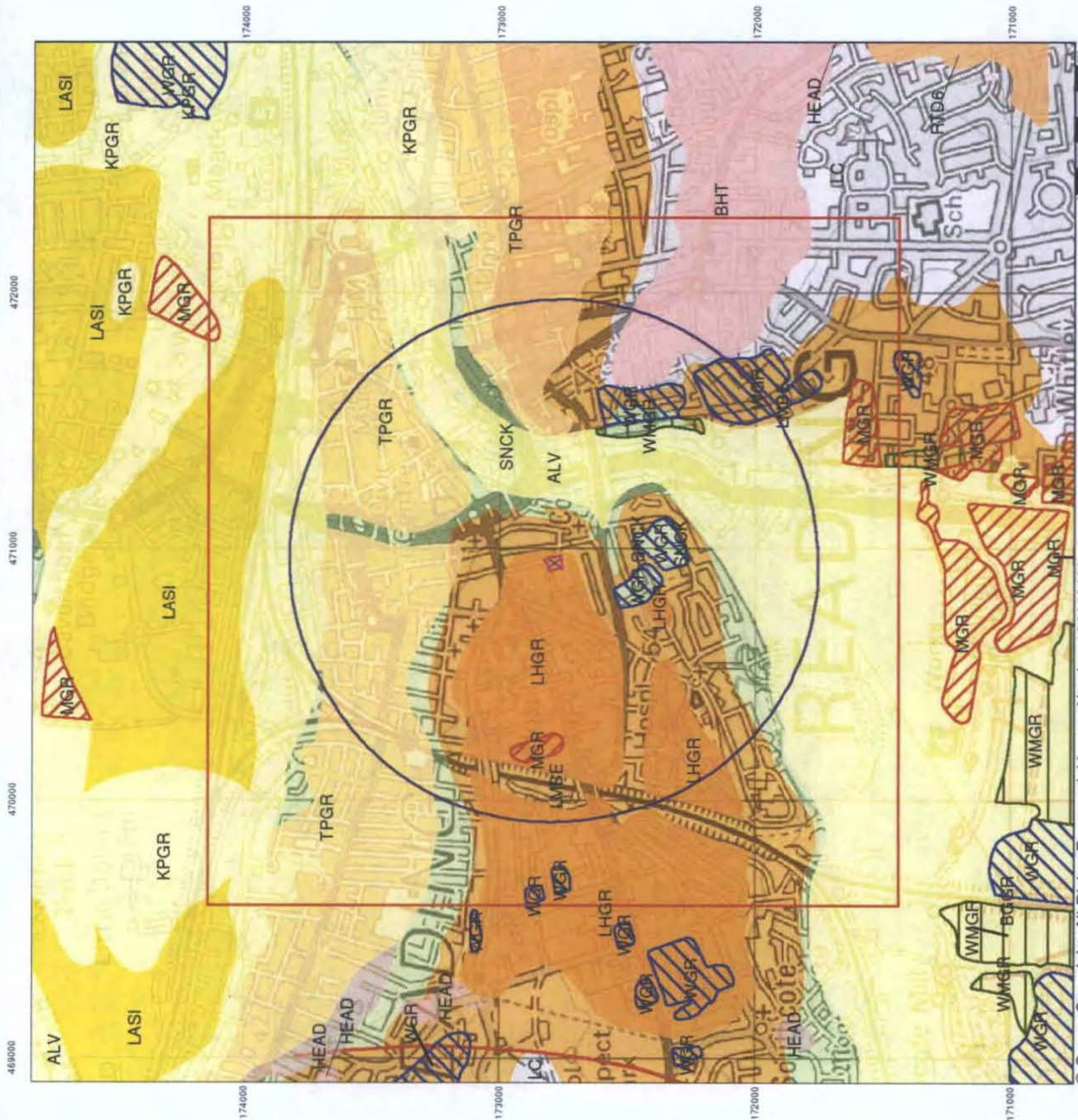


Order Details:

Order Number: 7052880 - 1_1
Customer Reference: 15.07.030
National Grid Reference: 470940, 172780
Site: A
Site Area (Ha): 0.29
Search Buffer (m): 1000

Site Details:

Flat 1, 3 Castle Crescent, READING, RG1 6AQ



Envirocheck[®] Report:

Datasheet

Order Details:

Order Number:

70522890_1_1

Customer Reference:

15.07.030

National Grid Reference:

470940, 172790

Slice:

A

Site Area (Ha):

0.29

Search Buffer (m):

1000

Site Details:

Flat 1

3 Castle Crescent

READING

RG1 6AQ

Client Details:

Mr J Davey

Listers Geotechnical Consultants Ltd

Slapton Hill Barn

Blakesley Road

Slapton

Towcester

Northants

NN12 8QD

Report Section	Page Number
Summary	-
Agency & Hydrological	1
Waste	32
Hazardous Substances	-
Geological	33
Industrial Land Use	59
Sensitive Land Use	82
Data Currency	83
Data Suppliers	88
Useful Contacts	89

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.

Copyright Notice

© Landmark Information Group Limited 2015. The Copyright on the information and data and its format as contained in this Envirocheck® Report ("Report") is the property of Landmark Information Group Limited ("Landmark") and several other Data Providers, including (but not limited to) Ordnance Survey, British Geological Survey, the Environment Agency/Natural Resources Wales and Natural England, and must not be reproduced in whole or in part by photocopying or any other method. The Report is supplied under Landmark's Terms and Conditions accepted by the Customer.

A copy of Landmark's Terms and Conditions can be found with the Index Map for this report. Additional copies of the Report may be obtained from Landmark, subject to Landmark's charges in force from time to time. The Copyright, design rights and any other intellectual rights shall remain the exclusive property of Landmark and /or other Data providers, whose Copyright material has been included in this Report.

Natural England Copyright Notice

Site of Special Scientific Interest, National Nature Reserve, Ramsar, Special Protection Area, Special Conservation Area, Marine Nature Reserve data (derived from Ordnance Survey 1:10000 raster) is provided by, and used with the permission of, Natural England who retain the copyright and Intellectual Property Rights for the data.

Ove Arup Copyright Notice

The Data provided in this report was obtained on Licence from Ove Arup & Partners Limited (for further information, contact mining.review@arup.com). No reproduction or further use of such Data is to be made without the prior written consent of Ove Arup & Partners Limited. The information and data supplied in the product are derived from publicly available records and other third party sources and neither Ove Arup & Partners nor Landmark warrant the accuracy or completeness of such information or data.

Peter Brett Associates Copyright Notice

The cavity data presented has been extracted from the PBA enhanced version of the original DEFRA national cavity databases. PBA/DEFRA retain the copyright & intellectual property rights in the data. Whilst all reasonable efforts are made to check that the information contained in the cavity databases is accurate we do not warrant that the data is complete or error free. The information is based upon our own researches and those collated from a number of external sources and is continually being augmented and updated by PBA. In no event shall PBA/DEFRA or Landmark be liable for any loss or damage including, without limitation, indirect or consequential loss or damage arising from the use of this data.

Radon Potential dataset Copyright Notice

Information supplied from a joint dataset compiled by The British Geological Survey and Public Health England.

Report Version v49.0

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Agency & Hydrological					
Contaminated Land Register Entries and Notices	pg 1				1
Discharge Consents	pg 1		3	2	16
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	pg 6		2	1	8
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 7			Yes	
Pollution Incidents to Controlled Waters	pg 7		10	10	33
Prosecutions Relating to Authorised Processes					
Prosecutions Relating to Controlled Waters	pg 16				1
Registered Radioactive Substances	pg 16			5	
River Quality	pg 17			1	2
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points	pg 18			1	
Substantiated Pollution Incident Register					
Water Abstractions	pg 18			1	2 (*41)
Water Industry Act Referrals					
Groundwater Vulnerability	pg 29	Yes	n/a	n/a	n/a
Bedrock Aquifer Designations	pg 29	Yes	n/a	n/a	n/a
Superficial Aquifer Designations	pg 29	Yes	n/a	n/a	n/a
Source Protection Zones					
Extreme Flooding from Rivers or Sea without Defences	pg 29		Yes	n/a	n/a
Flooding from Rivers or Sea without Defences	pg 29		Yes	n/a	n/a
Areas Benefiting from Flood Defences				n/a	n/a
Flood Water Storage Areas				n/a	n/a
Flood Defences				n/a	n/a
Detailed River Network Lines	pg 30			Yes	n/a
Detailed River Network Offline Drainage					n/a

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Waste					
BGS Recorded Landfill Sites					
Historical Landfill Sites	pg 32				1
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)	pg 32				1
Local Authority Recorded Landfill Sites					
Registered Landfill Sites					
Registered Waste Transfer Sites					
Registered Waste Treatment or Disposal Sites	pg 32				1
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)					
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)					
Planning Hazardous Substance Consents					
Planning Hazardous Substance Enforcements					
Geological					
BGS 1:625,000 Solid Geology	pg 33	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 33	Yes	Yes	Yes	Yes
BGS Recorded Mineral Sites	pg 42		1	3	4
BGS Urban Soil Chemistry					
BGS Urban Soil Chemistry Averages					
Brine Compensation Area			n/a	n/a	n/a
Coal Mining Affected Areas			n/a	n/a	n/a
Mining Instability	pg 43	Yes	n/a	n/a	n/a
Man-Made Mining Cavities	pg 43	1	14	5	16
Natural Cavities	pg 49		29	3	16
Non Coal Mining Areas of Great Britain	pg 56	Yes	Yes	n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 57	Yes		n/a	n/a
Potential for Compressible Ground Stability Hazards	pg 57		Yes	n/a	n/a
Potential for Ground Dissolution Stability Hazards	pg 57	Yes	Yes	n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 57	Yes		n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 57	Yes	Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 57	Yes	Yes	n/a	n/a
Radon Potential - Radon Affected Areas			n/a	n/a	n/a
Radon Potential - Radon Protection Measures			n/a	n/a	n/a

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Industrial Land Use					
Contemporary Trade Directory Entries	pg 59		18	29	213
Fuel Station Entries	pg 81		2	1	5
Sensitive Land Use					
Areas of Adopted Green Belt					
Areas of Unadopted Green Belt					
Areas of Outstanding Natural Beauty					
Environmentally Sensitive Areas					
Forest Parks					
Local Nature Reserves					
Marine Nature Reserves					
National Nature Reserves					
National Parks					
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones	pg 82		1	1	
Ramsar Sites					
Sites of Special Scientific Interest					
Special Areas of Conservation					
Special Protection Areas					

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	Contaminated Land Register Entries and Notices Location: George Street Allotments, George Street, Reading, Rg1 7nt Notice Type: Remediation Statement - Remediation Work Completed Reference: Not Supplied Dated: 23rd February 2011 Positional Accuracy: Manually positioned to the address or location Boundary Quality: Good	A17NE (NW)	961	2	470531 173688
2	Discharge Consents Operator: Thames Water Utilities Ltd Property Type: Sewerage Network - Pumping Station - Water Company Location: Reading, Bennet Roadreadingbennet Road Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Temp.1767 Permit Version: 2 Effective Date: 3rd September 2010 Issued Date: 3rd September 2010 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Holly Brook Status: Temporary Consents (Water Act 1989, Section 113) Positional Accuracy: Located by supplier to within 10m	A13NE (N)	183	3	471000 173001
2	Discharge Consents Operator: Thames Water Utilities Ltd Property Type: Sewerage Network - Pumping Station - Water Company Location: Reading, Bennet Roadreadingbennet Road Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Temp.1767 Permit Version: 1 Effective Date: 2nd November 1989 Issued Date: 2nd November 1989 Revocation Date: 2nd September 2010 Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Holly Brook Status: Temporary Consents (Water Act 1989, Section 113) Positional Accuracy: Located by supplier to within 10m	A13NE (N)	183	3	471000 173001
2	Discharge Consents Operator: Thames Water Utilities Ltd Property Type: Sewerage Network - Pumping Station - Water Company Location: Reading, Vastern Roadreadingvastern Road Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Temp.1779 Permit Version: 1 Effective Date: 2nd November 1989 Issued Date: 2nd November 1989 Revocation Date: 31st March 1997 Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Holy Brook Status: Lapsed (under Environment Act 1995, Schedule 23) Positional Accuracy: Located by supplier to within 10m	A13NE (N)	184	3	471000 173002
3	Discharge Consents Operator: The Occupier Property Type: Undefined Or Other Location: Storage Yard, 5/9 Berkeley Avenue, Reading, Berkshire Authority: Environment Agency, Thames Region Catchment Area: Not Given Reference: Ctwc.2914 Permit Version: 1 Effective Date: 1st December 1988 Issued Date: 1st December 1988 Revocation Date: 1st October 1996 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Irrigation Area Environment: Receiving Water: Alluvium Status: Lapsed (under Environment Act 1995, Schedule 23) Positional Accuracy: Located by supplier to within 100m	A14SW (SE)	461	3	471350 172500

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
4	Discharge Consents Operator: Rockfort Homes Ltd Property Type: Domestic Property (Multiple) Location: Housing Development, Rose Kiln Lane, Reading, Berkshire Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Ctwc.2920 Permit Version: 1 Effective Date: 1st December 1988 Issued Date: 1st December 1988 Revocation Date: 11th February 1992 Discharge Type: Discharge Of Other Matter-Surface Water Discharge: Freshwater Stream/River Environment: Receiving Water: Holy Brook Status: Authorisation revokedRevoked Positional Accuracy: Located by supplier to within 10m	A8NE (SE)	498	3	471200 172320
5	Discharge Consents Operator: Reading Concrete Products Property Type: Ready Mixed Concrete Location: R. C. Products, Rose Kiln Lane, Reading, Berks Authority: Environment Agency, Thames Region Catchment Area: Not Given Reference: Ctwc.1165 Permit Version: 1 Effective Date: 1st September 1986 Issued Date: 1st September 1986 Revocation Date: 1st October 1996 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Irrigation Area Environment: Receiving Water: Alluvium Status: Lapsed (under Environment Act 1995, Schedule 23) Positional Accuracy: Located by supplier to within 100m	A8NE (SE)	627	3	471250 172200
6	Discharge Consents Operator: Malthurst Retail Ltd. Property Type: Retail Filling Stations Location: Petrol Station, Rose Kiln Lane, Reading, Berkshire Authority: Environment Agency, Thames Region Catchment Area: Not Given Reference: CNTM.1317 Permit Version: 1 Effective Date: 4th March 1994 Issued Date: 4th March 1994 Revocation Date: 11th August 2009 Discharge Type: Trade Effluent Discharge-Site Drainage Discharge: Freshwater Stream/River Environment: Receiving Water: Coley Ditch Status: Revoked (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 100m	A8NE (S)	653	3	471200 172150
6	Discharge Consents Operator: Norcross Plc Property Type: Undefined Or Other Location: Former Kee Klamps Site, Rose Kiln Lane, Reading, Berkshire Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Ctwc.2951 Permit Version: 1 Effective Date: 2nd December 1988 Issued Date: 2nd December 1988 Revocation Date: 27th June 1991 Discharge Type: Discharge Of Other Matter-Surface Water Discharge: Freshwater Stream/River Environment: Receiving Water: Tributary Of river Kennet Status: Authorisation revokedRevoked Positional Accuracy: Located by supplier to within 10m	A8NE (S)	668	3	471190 172130

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
7	Discharge Consents Operator: Thames Water Utilities Ltd Property Type: Reservoir/Borehole Site Location: Bath Road Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Temp.0019 Permit Version: 1 Effective Date: 15th September 1989 Issued Date: 15th September 1989 Revocation Date: 5th October 2000 Discharge Type: Trade Effluent Discharge: Freshwater Stream/River Environment: Receiving Water: River Kennet Status: Authorisation revokedRevoked Positional Accuracy: Located by supplier to within 100m	A12NW (W)	712	3	470200 172800
8	Discharge Consents Operator: H&G Simmonds Ltd, The Brewery, Reading, Berks Property Type: Brewing & Malting Location: The Brewery, Reading, Berks Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Ctr.0211 Permit Version: 1 Effective Date: 19th December 1955 Issued Date: 19th December 1955 Revocation Date: 12th June 1990 Discharge Type: Trade Discharges - Cooling Water Discharge: Freshwater Stream/River Environment: Receiving Water: Kennet Status: Authorisation revokedRevoked Positional Accuracy: Manually corrected supplier location	A19SW (NE)	745	3	471600 173200
9	Discharge Consents Operator: Geoffrey Osbourne Building Ltd Property Type: Undefined Or Other Location: 17/23 King Street, Reading, Berkshire Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Ctwc.3315 Permit Version: 1 Effective Date: 12th June 1989 Issued Date: 12th June 1989 Revocation Date: 27th June 1991 Discharge Type: Unknown Discharge: Freshwater Stream/River Environment: Receiving Water: Holy Brook Status: Authorisation revokedRevoked Positional Accuracy: Located by supplier to within 100m	A19SW (NE)	802	3	471600 173300
10	Discharge Consents Operator: Universities Superannuation Scheme Ltd. Property Type: Education Location: Rear Of 'Toys R Us' Warehouse, Rose Kiln Lane, Reading, Rg 2 0jw Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Ctwc.0664 Permit Version: 1 Effective Date: 17th February 1986 Issued Date: 17th February 1986 Revocation Date: 27th June 1991 Discharge Type: Discharge Of Other Matter-Surface Water Discharge: Freshwater Stream/River Environment: Receiving Water: River Kennet Status: Authorisation revokedRevoked Positional Accuracy: Located by supplier to within 10m	A9SW (SE)	873	3	471360 171980

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
11	Discharge Consents Operator: M & M Construction Co. Ltd Property Type: General Construction Work Location: Coley Park Farm, Coley, Reading, Berks Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Ctwc.0961 Permit Version: 1 Effective Date: 27th June 1986 Issued Date: 27th June 1986 Revocation Date: 27th June 1991 Discharge Type: Discharge Of Other Matter-Surface Water Discharge: Freshwater Stream/River Environment: Receiving Water: Holy Brook Status: Authorisation revokedRevoked Positional Accuracy: Located by supplier to within 10m	A7SE (SW)	883	3	470560 171950
12	Discharge Consents Operator: M & M Construction Co. Ltd Property Type: General Construction Work Location: Coley Park Farm, Coley, Reading, Berks Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Ctwc.0960 Permit Version: 1 Effective Date: 27th June 1986 Issued Date: 27th June 1986 Revocation Date: 27th June 1991 Discharge Type: Discharge Of Other Matter-Surface Water Discharge: Freshwater Stream/River Environment: Receiving Water: Holy Brook Status: Authorisation revokedRevoked Positional Accuracy: Located by supplier to within 10m	A7SE (SW)	905	3	470510 171950
12	Discharge Consents Operator: Coley Park Farm Residents Association Ltd. Property Type: General Construction Work Location: Coley Park Farm, Coley, Reading, Berks Authority: Environment Agency, Thames Region Catchment Area: Not Given Reference: CTWC.0959 Permit Version: 1 Effective Date: 27th June 1986 Issued Date: 27th June 1986 Revocation Date: 7th November 2000 Discharge Type: Discharge Of Other Matter-Surface Water Discharge: Freshwater Stream/River Environment: Receiving Water: Holy Brook Status: Revoked (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A7SE (SW)	914	3	470490 171950
13	Discharge Consents Operator: Huntley & Palmers Ltd Property Type: Undefined Or Other Location: Premises, Kings Rd, Reading, Berks Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Ctcp.0296 Permit Version: 1 Effective Date: 12th February 1964 Issued Date: 12th February 1964 Revocation Date: 4th February 1986 Discharge Type: Trade Discharges - Cooling Water Discharge: Freshwater Stream/River Environment: Receiving Water: R Kennet Status: Authorisation revokedRevoked Positional Accuracy: Manually corrected supplier location	A19SE (NE)	968	3	471800 173300

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
13	Discharge Consents Operator: Huntley & Palmers Ltd Property Type: Undefined Or Other Location: Premises, Kings Rd, Reading, Berks Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Ctcp.0295 Permit Version: 1 Effective Date: 12th February 1964 Issued Date: 12th February 1964 Revocation Date: 4th February 1986 Discharge Type: Trade Discharges - Cooling Water Discharge: Freshwater Stream/River Environment: Receiving Water: R Kennet Status: Authorisation revokedRevoked Positional Accuracy: Manually corrected supplier location	A19SE (NE)	968	3	471800 173300
13	Discharge Consents Operator: Huntley & Palmers Ltd Property Type: Undefined Or Other Location: Premises, Kings Rd, Reading, Berks Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Ctcp.0297 Permit Version: 1 Effective Date: 12th February 1964 Issued Date: 12th February 1964 Revocation Date: 4th February 1986 Discharge Type: Trade Discharges - Cooling Water Discharge: Freshwater Stream/River Environment: Receiving Water: R Kennet Status: Authorisation revokedRevoked Positional Accuracy: Manually corrected supplier location	A19SE (NE)	968	3	471800 173300
13	Discharge Consents Operator: Huntley & Palmers Ltd Property Type: Undefined Or Other Location: Premises, Kings Rd, Reading, Berks Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Ctcp.0298 Permit Version: 1 Effective Date: 12th February 1964 Issued Date: 12th February 1964 Revocation Date: 4th February 1986 Discharge Type: Trade Discharges - Cooling Water Discharge: Freshwater Stream/River Environment: Receiving Water: R Kennet Status: Authorisation revokedRevoked Positional Accuracy: Manually corrected supplier location	A19SE (NE)	968	3	471800 173300
13	Discharge Consents Operator: Huntley & Palmers Ltd Property Type: Undefined Or Other Location: Premises, Kings Rd, Reading, Berks Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Ctcp.0299 Permit Version: 1 Effective Date: 12th February 1964 Issued Date: 12th February 1964 Revocation Date: 4th February 1986 Discharge Type: Trade Discharges - Cooling Water Discharge: Freshwater Stream/River Environment: Receiving Water: R Kennet Status: Authorisation revokedRevoked Positional Accuracy: Manually corrected supplier location	A19SE (NE)	968	3	471800 173300

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
13	Discharge Consents Operator: Huntley & Palmers Ltd, King'S Road, Reading, Berks Property Type: Undefined Or Other Location: Factory At Reading, Berks Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Ctr.0508 Permit Version: 1 Effective Date: 22nd March 1962 Issued Date: 22nd March 1962 Revocation Date: 3rd April 1987 Discharge Type: Trade Discharges - Cooling Water Discharge: Freshwater Stream/River Environment: Receiving Water: Kennet Status: Authorisation revokedRevoked Positional Accuracy: Manually corrected supplier location	A19SE (NE)	968	3	471800 173300
14	Local Authority Pollution Prevention and Controls Name: Berkeley Service Station Location: 10 Berkley Avenue, READING, Berkshire, RG1 6JT Authority: Reading Borough Council, Environmental Health Department Permit Reference: EPA/PAR.B/34/98/P2 Dated: 1st September 1998 Process Type: Local Authority Air Pollution Control Description: PG1/14 Petrol filling station Status: Authorised Positional Accuracy: Manually positioned to the address or location	A13SE (S)	128	2	470970 172632
15	Local Authority Pollution Prevention and Controls Name: Save Service Station (Reading) Location: Berkeley Avenue, Reading, Berkshire, RG1 6JE Authority: Reading Borough Council, Environmental Health Department Permit Reference: EPA/PAR.B/46/98 Dated: 24th August 1999 Process Type: Local Authority Air Pollution Control Description: PG1/14 Petrol filling station Status: Authorised Positional Accuracy: Manually positioned to the address or location	A13SE (SE)	239	2	471113 172570
16	Local Authority Pollution Prevention and Controls Name: Tilehurst Connect Service Station Location: Tilehurst Road, READING, Berkshire, RG1 Authority: Reading Borough Council, Environmental Health Department Permit Reference: EPA/PAR.B/32/98/P2 Dated: 24th August 1999 Process Type: Local Authority Pollution Prevention and Control Description: PG1/14 Petrol filling station Status: Permitted Positional Accuracy: Automatically positioned to the address	A13NW (NW)	324	2	470664 173011
17	Local Authority Pollution Prevention and Controls Name: Hobbs Of Reading Location: 102 Oxford Road, Reading, Rg1 7ll Authority: Reading Borough Council, Environmental Health Department Permit Reference: EPA/PAR.B/DC9/P1 Dated: Not Supplied Process Type: Local Authority Air Pollution Control Description: PG6/46 Dry cleaning Status: Application Not Yet Authorised Positional Accuracy: Manually positioned to the address or location	A18SE (N)	577	2	470944 173401
18	Local Authority Pollution Prevention and Controls Name: Maff Location: Government Buildings, Coley Park, READING, Berkshire, RG1 6DT Authority: Reading Borough Council, Environmental Health Department Permit Reference: Epa/Par.B/2/91 Dated: 14th April 1993 Process Type: Local Authority Air Pollution Control Description: PG5/3 Animal carcass incineration processes under 1 tonne an hour Status: Authorisation revokedRevoked Positional Accuracy: Manually positioned to the address or location	A7NE (SW)	645	2	470452 172313
19	Local Authority Pollution Prevention and Controls Name: D W Archer Location: 17-19 Rose Kiln Lane, READING, Berkshire, RG2 0JW Authority: Reading Borough Council, Environmental Health Department Permit Reference: Epa/Par.B/23/95 Dated: 31st July 1996 Process Type: Local Authority Air Pollution Control Description: PG6/2 Manufacture of timber and wood-based products Status: Authorisation revokedRevoked Positional Accuracy: Automatically positioned to the address	A9NW (SE)	674	2	471356 172208

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
20	Local Authority Pollution Prevention and Controls Name: Oxford Road Service StationTexaco Location: 150 Oxford Road, READING, Berkshire, RG1 7PJ Authority: Reading Borough Council, Environmental Health Department Permit Reference: EPA/PAR.B/39/98/P1 Dated: 9th November 1999 Process Type: Local Authority Pollution Prevention and Control Description: PG1/14 Petrol filling station Status: Permitted Positional Accuracy: Automatically positioned to the address	A17SE (NW)	791	2	470465 173455
21	Local Authority Pollution Prevention and Controls Name: Rygor Commercials Ltd Location: Unit 8/9 Rose Kiln Lane, Reading, RG2 0JJ Authority: Reading Borough Council, Environmental Health Department Permit Reference: EP/PAR.B/WO2/P2 Dated: 1st February 2013 Process Type: Local Authority Pollution Prevention and Control Description: PG1/1Waste oil burners, less than 0.4MW net rated thermal input Status: Permitted Positional Accuracy: Manually positioned to the address or location	A8SE (S)	854	2	471170 171931
22	Local Authority Pollution Prevention and Controls Name: Autodex Ltd Location: Unit 2 Elgar Estate, Preson Road, READING, Berkshire, RG2 0BE Authority: Reading Borough Council, Environmental Health Department Permit Reference: EPA/PAR.B/14/93/P1 Dated: 8th March 1999 Process Type: Local Authority Pollution Prevention and Control Description: PG6/34 Respraying of road vehicles Status: Application Refused Or Cancelled Positional Accuracy: Manually positioned to the address or location	A9NE (SE)	911	2	471686 172198
23	Local Authority Pollution Prevention and Controls Name: Sketchley Dry Cleaners Location: 41 Market Place, Reading, Rg1 2de Authority: Reading Borough Council, Environmental Health Department Permit Reference: EPA/PAR.B/DC16/P1 Dated: Not Supplied Process Type: Local Authority Air Pollution Control Description: PG6/46 Dry cleaning Status: Application Not Yet Authorised Positional Accuracy: Manually positioned to the address or location	A19SE (NE)	946	2	471662 173451
24	Local Authority Pollution Prevention and Controls Name: Britten Autos Location: Unit 15-17 Robert Cort Industrial Estate, Britten Road, Reading, RG2 0AU Authority: Reading Borough Council, Environmental Health Department Permit Reference: EP/PAR.B/WO3/P2 Dated: 1st December 2011 Process Type: Local Authority Pollution Prevention and Control Description: PG1/1Waste oil burners, less than 0.4MW net rated thermal input Status: Permitted Positional Accuracy: Manually positioned to the address or location	A9SE (SE)	971	2	471654 172072
	Nearest Surface Water Feature	A13NE (E)	263	-	471227 172826
25	Pollution Incidents to Controlled Waters Property Type: Not Given Location: READING Authority: Environment Agency, Thames Region Pollutant: Miscellaneous - Urban Runoff Note: Confirmed As A Pollution Incident Incident Date: 26th September 1995 Incident Reference: WE950387 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13NE (N)	177	3	471000 172995

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
25	Pollution Incidents to Controlled Waters Property Type: Not Given Location: READING Authority: Environment Agency, Thames Region Pollutant: Miscellaneous - Other Note: Not Supplied Incident Date: 30th October 1996 Incident Reference: WE960375 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13NE (N)	178	3	471005 172995
25	Pollution Incidents to Controlled Waters Property Type: Not Given Location: READING Authority: Environment Agency, Thames Region Pollutant: Oils - Unknown Note: Confirmed As A Pollution Incident Incident Date: 29th June 1993 Incident Reference: WE930212 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13NE (N)	182	3	471000 173000
25	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Tilehurst, READING Authority: Environment Agency, Thames Region Pollutant: Oils - Unknown Note: Not Supplied Incident Date: 30th March 1996 Incident Reference: WE960084 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13NE (N)	183	3	471005 173000
25	Pollution Incidents to Controlled Waters Property Type: Not Given Location: READING Authority: Environment Agency, Thames Region Pollutant: Chemicals - Unknown Note: Confirmed incident Incident Date: 4th April 1999 Incident Reference: THWE1999042768 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 10m	A13NE (N)	187	3	471000 173005
25	Pollution Incidents to Controlled Waters Property Type: Not Given Location: READING Authority: Environment Agency, Thames Region Pollutant: Chemicals - Unknown Note: Not Supplied Incident Date: 9th June 1997 Incident Reference: THWE1997029353 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13NE (N)	188	3	471005 173005
26	Pollution Incidents to Controlled Waters Property Type: Not Given Location: READING Authority: Environment Agency, Thames Region Pollutant: Miscellaneous - Unknown Note: Confirmed As A Pollution Incident Incident Date: 16th October 1995 Incident Reference: WE950400 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13NE (E)	232	3	471200 172795

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
26	Pollution Incidents to Controlled Waters Property Type: Not Given Location: READING Authority: Environment Agency, Thames Region Pollutant: Oils - Unknown Note: Confirmed As A Pollution Incident Incident Date: 23rd December 1994 Incident Reference: WE940436 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13NE (E)	233	3	471200 172800
26	Pollution Incidents to Controlled Waters Property Type: Not Given Location: READING Authority: Environment Agency, Thames Region Pollutant: Miscellaneous - Unknown Note: Confirmed As A Pollution Incident Incident Date: 1st September 1995 Incident Reference: WE950350 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13NE (E)	240	3	471200 172845
27	Pollution Incidents to Controlled Waters Property Type: Not Given Location: READING Authority: Environment Agency, Thames Region Pollutant: Miscellaneous - Unknown Note: Confirmed As A Pollution Incident Incident Date: 8th August 1995 Incident Reference: WE950327 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13NE (E)	240	3	471200 172850
27	Pollution Incidents to Controlled Waters Property Type: Not Given Location: READING Authority: Environment Agency, Thames Region Pollutant: Oils - Unknown Note: Confirmed As A Pollution Incident Incident Date: 23rd September 1994 Incident Reference: WE940336 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13NE (NE)	251	3	471200 172895
27	Pollution Incidents to Controlled Waters Property Type: Not Given Location: READING Authority: Environment Agency, Thames Region Pollutant: Oils - Unknown Note: Confirmed As A Pollution Incident Incident Date: 10th January 1989 Incident Reference: WE890007 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13NE (NE)	253	3	471200 172900
28	Pollution Incidents to Controlled Waters Property Type: Not Given Location: READING Authority: Environment Agency, Thames Region Pollutant: Oils - Unknown Note: Not Supplied Incident Date: 29th June 1997 Incident Reference: THWE1997029441 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13NE (NE)	279	3	471170 173000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
29	Pollution Incidents to Controlled Waters Property Type: Not Given Location: READING Authority: Environment Agency, Thames Region Pollutant: Miscellaneous - Unknown Note: Confirmed As A Pollution Incident Incident Date: 16th November 1993 Incident Reference: WE930337 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A8NE (S)	362	3	471000 172400
30	Pollution Incidents to Controlled Waters Property Type: Not Given Location: READING Authority: Environment Agency, Thames Region Pollutant: Miscellaneous - Unknown Note: Confirmed As A Pollution Incident Incident Date: 11th September 1995 Incident Reference: WE950365 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A14SW (SE)	367	3	471300 172600
30	Pollution Incidents to Controlled Waters Property Type: Not Given Location: READING Authority: Environment Agency, Thames Region Pollutant: Miscellaneous - Other Note: Not Supplied Incident Date: 6th March 1996 Incident Reference: WE960052 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A14SW (SE)	369	3	471300 172595
31	Pollution Incidents to Controlled Waters Property Type: Not Given Location: READING Authority: Environment Agency, Thames Region Pollutant: Chemicals - Unknown Note: Confirmed As A Pollution Incident Incident Date: 10th November 1990 Incident Reference: WE900632 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A14SW (E)	434	3	471400 172700
32	Pollution Incidents to Controlled Waters Property Type: Not Given Location: READING Authority: Environment Agency, Thames Region Pollutant: Storm Sewage Note: Confirmed incident Incident Date: 16th April 1999 Incident Reference: THWE1999042637 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 10m	A14NW (NE)	476	3	471400 173000
33	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Coley Park, READING Authority: Environment Agency, Thames Region Pollutant: Miscellaneous - Unknown Note: Not Supplied Incident Date: 1st February 1989 Incident Reference: WE890106 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A8NE (S)	479	3	471100 172300

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
34	Pollution Incidents to Controlled Waters Property Type: Not Given Location: READING Authority: Environment Agency, Thames Region Pollutant: Oils - Unknown Note: Confirmed As A Pollution Incident Incident Date: 20th April 1992 Incident Reference: WE920233 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A9NW (SE)	493	3	471300 172395
35	Pollution Incidents to Controlled Waters Property Type: Not Given Location: READING Authority: Environment Agency, Thames Region Pollutant: Miscellaneous - Unknown Note: Confirmed As A Pollution Incident Incident Date: 4th May 1995 Incident Reference: WE950187 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A14SW (SE)	503	3	471400 172500
35	Pollution Incidents to Controlled Waters Property Type: Not Given Location: READING Authority: Environment Agency, Thames Region Pollutant: Miscellaneous - Unknown Note: Confirmed As A Pollution Incident Incident Date: 30th June 1994 Incident Reference: WE940228 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A14SW (SE)	538	3	471440 172500
36	Pollution Incidents to Controlled Waters Property Type: Not Given Location: READING Authority: Environment Agency, Thames Region Pollutant: Oils - Unknown Note: Confirmed As A Pollution Incident Incident Date: 2nd December 1994 Incident Reference: WE940424 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A14NW (NE)	523	3	471400 173100
37	Pollution Incidents to Controlled Waters Property Type: Not Given Location: READING Authority: Environment Agency, Thames Region Pollutant: Oils - Unknown Note: Confirmed As A Pollution Incident Incident Date: 12th May 1991 Incident Reference: WE910249 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A9NW (SE)	560	3	471350 172350
38	Pollution Incidents to Controlled Waters Property Type: Not Given Location: READING Authority: Environment Agency, Thames Region Pollutant: Miscellaneous - Unknown Note: Confirmed As A Pollution Incident Incident Date: 6th August 1994 Incident Reference: WE940287 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A9NW (SE)	567	3	471300 172300

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
39	Pollution Incidents to Controlled Waters Property Type: Not Given Location: READING Authority: Environment Agency, Thames Region Pollutant: Oils - Unknown Note: Confirmed As A Pollution Incident Incident Date: 22nd November 1991 Incident Reference: WE910648 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A19SW (NE)	584	3	471400 173200
40	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Duke Street, READING Authority: Environment Agency, Thames Region Pollutant: Oils - Unknown Note: Confirmed As A Pollution Incident Incident Date: 17th December 1991 Incident Reference: WE910690 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A19SW (NE)	607	3	471480 173130
40	Pollution Incidents to Controlled Waters Property Type: Not Given Location: READING Authority: Environment Agency, Thames Region Pollutant: Oils - Unknown Note: Confirmed As A Pollution Incident Incident Date: 30th November 1993 Incident Reference: WE930397 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A14NW (NE)	609	3	471500 173100
40	Pollution Incidents to Controlled Waters Property Type: Not Given Location: READING Authority: Environment Agency, Thames Region Pollutant: Oils - Unknown Note: Confirmed As A Pollution Incident Incident Date: 16th October 1992 Incident Reference: WE920594 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A14NW (NE)	627	3	471520 173100
41	Pollution Incidents to Controlled Waters Property Type: Not Given Location: READING Authority: Environment Agency, Thames Region Pollutant: Oils - Unknown Note: Not Supplied Incident Date: 5th August 1996 Incident Reference: WE960275 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A9NW (SE)	641	3	471500 172400
42	Pollution Incidents to Controlled Waters Property Type: Not Given Location: READING Authority: Environment Agency, Thames Region Pollutant: Oils - Unknown Note: Not Supplied Incident Date: 22nd July 1997 Incident Reference: THWE1997029089 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A19SW (NE)	662	3	471500 173200

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
42	Pollution Incidents to Controlled Waters Property Type: Not Given Location: READING Authority: Environment Agency, Thames Region Pollutant: Oils - Unknown Note: Confirmed As A Pollution Incident Incident Date: 23rd November 1994 Incident Reference: WE940411 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A19SW (NE)	700	3	471550 173195
42	Pollution Incidents to Controlled Waters Property Type: Not Given Location: READING Authority: Environment Agency, Thames Region Pollutant: Oils - Unknown Note: Confirmed As A Pollution Incident Incident Date: 4th November 1994 Incident Reference: WE940380 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A19SW (NE)	703	3	471550 173200
43	Pollution Incidents to Controlled Waters Property Type: Not Given Location: READING Authority: Environment Agency, Thames Region Pollutant: General Note: Not Supplied Incident Date: 16th July 1998 Incident Reference: THWE1998039887 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A19SW (NE)	692	3	471500 173250
44	Pollution Incidents to Controlled Waters Property Type: Not Given Location: READING Authority: Environment Agency, Thames Region Pollutant: Oils - Unknown Note: Confirmed As A Pollution Incident Incident Date: 8th November 1993 Incident Reference: WE930375 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A14NW (NE)	699	3	471600 173100
45	Pollution Incidents to Controlled Waters Property Type: Not Given Location: READING Authority: Environment Agency, Thames Region Pollutant: General Note: Not Supplied Incident Date: 2nd September 1998 Incident Reference: THWE1998040395 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A8SE (S)	700	3	471200 172100
46	Pollution Incidents to Controlled Waters Property Type: Not Given Location: READING Authority: Environment Agency, Thames Region Pollutant: Miscellaneous - Unknown Note: Confirmed As A Pollution Incident Incident Date: 23rd August 1994 Incident Reference: WE940305 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A9NW (SE)	723	3	471450 172220

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
47	Pollution Incidents to Controlled Waters Property Type: Not Given Location: READING Authority: Environment Agency, Thames Region Pollutant: Unknown Sewage Note: Not Supplied Incident Date: 6th February 1997 Incident Reference: THWE1997031409 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A8SE (S)	734	3	471150 172050
48	Pollution Incidents to Controlled Waters Property Type: Not Given Location: READING Authority: Environment Agency, Thames Region Pollutant: Miscellaneous - Unknown Note: Confirmed As A Pollution Incident Incident Date: 25th July 1995 Incident Reference: WE950295 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A9NW (SE)	753	3	471380 172130
49	Pollution Incidents to Controlled Waters Property Type: Not Given Location: READING Authority: Environment Agency, Thames Region Pollutant: Oils - Unknown Note: Confirmed As A Pollution Incident Incident Date: 16th December 1993 Incident Reference: WE930413 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A19SW (NE)	802	3	471600 173300
50	Pollution Incidents to Controlled Waters Property Type: Not Given Location: READING Authority: Environment Agency, Thames Region Pollutant: Oils - Unknown Note: Confirmed As A Pollution Incident Incident Date: 23rd July 1993 Incident Reference: WE930250 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A9SW (SE)	830	3	471300 172000
51	Pollution Incidents to Controlled Waters Property Type: Not Given Location: READING Authority: Environment Agency, Thames Region Pollutant: Unknown Sewage Note: Confirmed As A Pollution Incident Incident Date: 18th September 1990 Incident Reference: WE900560 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A9SW (SE)	874	3	471400 172000
52	Pollution Incidents to Controlled Waters Property Type: Not Given Location: READING Authority: Environment Agency, Thames Region Pollutant: Miscellaneous - Unknown Note: Confirmed As A Pollution Incident Incident Date: 20th February 1989 Incident Reference: WE890083 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A19SE (NE)	883	3	471700 173300

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
52	Pollution Incidents to Controlled Waters Property Type: Not Given Location: READING Authority: Environment Agency, Thames Region Pollutant: Oils - Unknown Note: Confirmed As A Pollution Incident Incident Date: 8th December 1994 Incident Reference: WE940420 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A19SE (NE)	926	3	471750 173300
53	Pollution Incidents to Controlled Waters Property Type: Not Given Location: READING Authority: Environment Agency, Thames Region Pollutant: Oils - Unknown Note: Confirmed As A Pollution Incident Incident Date: 10th February 1989 Incident Reference: WE890077 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A9SW (S)	922	3	471300 171900
53	Pollution Incidents to Controlled Waters Property Type: Not Given Location: READING Authority: Environment Agency, Thames Region Pollutant: General Note: Not Supplied Incident Date: 11th July 1997 Incident Reference: THWE1997028627 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A9SW (SE)	941	3	471350 171900
54	Pollution Incidents to Controlled Waters Property Type: Not Given Location: READING Authority: Environment Agency, Thames Region Pollutant: Oils - Unknown Note: Confirmed As A Pollution Incident Incident Date: 3rd May 1994 Incident Reference: WE940144 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A19SE (NE)	939	3	471700 173395
54	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Duke Street, READING Authority: Environment Agency, Thames Region Pollutant: Miscellaneous - Urban Runoff Note: Confirmed As A Pollution Incident Incident Date: 15th February 1989 Incident Reference: WE890092 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A19SE (NE)	942	3	471700 173400
54	Pollution Incidents to Controlled Waters Property Type: Not Given Location: READING Authority: Environment Agency, Thames Region Pollutant: General Note: Not Supplied Incident Date: 21st January 1998 Incident Reference: 37294 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A19SE (NE)	943	3	471705 173395

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
55	Pollution Incidents to Controlled Waters Property Type: Not Given Location: READING Authority: Environment Agency, Thames Region Pollutant: Unknown Sewage Note: Confirmed incident Incident Date: 26th May 1999 Incident Reference: THWE1999043123 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 10m	A9SW (SE)	946	3	471350 171895
56	Pollution Incidents to Controlled Waters Property Type: Not Given Location: READING Authority: Environment Agency, Thames Region Pollutant: General Note: Confirmed incident Incident Date: 11th June 1999 Incident Reference: THWE1999043612 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 10m	A9SW (SE)	957	3	471550 172000
57	Pollution Incidents to Controlled Waters Property Type: Not Given Location: READING Authority: Environment Agency, Thames Region Pollutant: Storm Sewage Note: Not Supplied Incident Date: 17th January 1997 Incident Reference: THWE1997031344 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A19SE (NE)	966	3	471800 173295
57	Pollution Incidents to Controlled Waters Property Type: Not Given Location: READING Authority: Environment Agency, Thames Region Pollutant: Oils - Unknown Note: Confirmed As A Pollution Incident Incident Date: 2nd October 1992 Incident Reference: WE920562 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A19SE (NE)	968	3	471800 173300
58	Prosecutions Relating to Controlled Waters Location: Holy Brook, Broad Street, READING, RG1 Prosecution Text: Allowing diesel to enter a water drainage system Prosecution Act: Wra91 S85(1) Hearing Date: 4th May 2006 Verdict: Guilty Fine: 12000 Cost: 2032 Positional Accuracy: Manually positioned within the geographical locality	A19SW (NE)	769	3	471514 173350
59	Registered Radioactive Substances Name: British United Provident Association Ltd Location: Dunedin Hospital, Bath Road, Reading, Berkshire, RG1 6NQ Authority: Environment Agency, Thames Region Permit Reference: Bu1873 Dated: 11th March 2003 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7) Description: Authorisation under RSA Status: Authorisation either revoked or cancelledCancelled Positional Accuracy: Automatically positioned to the address	A12NE (W)	435	3	470478 172832

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
59	Registered Radioactive Substances Name: British United Provident Association Ltd Location: Dunedin Hospital, Bath Road, Reading, Berkshire, RG1 6NQ Authority: Environment Agency, Thames Region Permit Reference: Bu1890 Dated: 11th March 2003 Process Type: Registration under S7 RSA for the keeping and use of Radioactive materials (was RSA60 S1) Description: Registration under the Act of an open source which is also the subject of an authorisation Status: Authorisation either revoked or cancelledCancelled Positional Accuracy: Automatically positioned to the address	A12NE (W)	435	3	470478 172832
59	Registered Radioactive Substances Name: Classic Hospitals Ltd Location: Dunedin Hospital, Bath Road, Reading, RG1 6NQ Authority: Environment Agency, Thames Region Permit Reference: CB6194 Dated: 19th September 2007 Process Type: Registration under S7 RSA for the keeping and use of Radioactive materials (was RSA60 S1) Description: Substantial variation to a registration under the Act of an open source which is also the subject of an authorisation Status: Authorisation either revoked or cancelledCancelled Positional Accuracy: Automatically positioned to the address	A12NE (W)	436	3	470478 172832
59	Registered Radioactive Substances Name: Classic Hospitals Ltd Location: Dunedin Hospital, Bath Road, READING, RG1 6NQ Authority: Environment Agency, Thames Region Permit Reference: Bz4241 Dated: 10th August 2005 Process Type: Registration under S7 RSA for the keeping and use of Radioactive materials (was RSA60 S1) Description: Registration under the Act of an open source which is also the subject of an authorisation Status: Authorisation superseded by a substantial or non substantial variationSuperseded Positional Accuracy: Automatically positioned to the address	A12NE (W)	436	3	470478 172832
59	Registered Radioactive Substances Name: Classic Hospitals Ltd Location: Dunedin Hospital, Bath Road, READING, RG1 6NQ Authority: Environment Agency, Thames Region Permit Reference: Bz4250 Dated: 10th August 2005 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7) Description: Authorisation under RSA Status: Authorisation either revoked or cancelledCancelled Positional Accuracy: Automatically positioned to the address	A12NE (W)	436	3	470478 172832
	River Quality Name: Kennet GQA Grade: River Quality B Reach: Holy Bk - Thames Estimated Distance (km): 1.3 Flow Rate: Flow less than 20 cumecs Flow Type: River Year: 2000	A14SW (E)	434	3	471404 172780
	River Quality Name: Holy Bk GQA Grade: River Quality B Reach: Kennel - Kennet Estimated Distance (km): 9.3 Flow Rate: Flow less than 0.31 cumecs Flow Type: River Year: 2000	A9NW (SE)	521	3	471300 172358
	River Quality Name: Kennet GQA Grade: River Quality A Reach: Foudry Bk - Holy Bk Estimated Distance (km): 2.8 Flow Rate: Flow less than 20 cumecs Flow Type: River Year: 2000	A9NW (SE)	535	3	471405 172449

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
60	River Quality Chemistry Sampling Points Name: Kennet Reach: Foudry Brook To Holy Brook Estimated Distance: 2.80 Objective: Not Supplied Positional Accuracy: Located by supplier to within 10m Year: 1990 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 1993 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 1994 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 1995 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1996 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 1997 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 1998 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 1999 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 2000 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2001 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 2002 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2003 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 2004 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 2005 GQA Grade: River Quality Chemistry GQA Grade B - Good Compliance: Not Supplied Year: 2006 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2007 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2008 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied Year: 2009 GQA Grade: River Quality Chemistry GQA Grade A - Very Good Compliance: Not Supplied	A14NW (E)	384	3	471351 172807
61	Water Abstractions Operator: Birse Construction Ltd Licence Number: 28/39/22/0552 Permit Version: Not Supplied Location: Coley, READING Authority: Environment Agency, Thames Region Abstraction: Industrial Processing (Miscellaneous) Abstraction Type: Not Supplied Source: River Daily Rate (m3): 3 Yearly Rate (m3): 318 Details: Status: Revoked; Lapsed Or Cancelled Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A9NW (SE)	489	3	471300 172400

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
62	Water Abstractions Operator: Oracle Shopping Centre Ltd Licence Number: 28/39/22/0594 Permit Version: 1 Location: St.Giles Stream At The Oracle Centre, Reading Authority: Environment Agency, Thames Region Abstraction: Amenity: Lake And Pond Throughflow Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: The Oracle Shopping Centre, Reading Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 16th February 2000 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A19SW (NE)	712	3	471590 173150
63	Water Abstractions Operator: Primark Stores Limited Licence Number: 28/39/23/0042 Permit Version: 101 Location: Cheapside, Reading, Berkshire Authority: Environment Agency, Thames Region Abstraction: Retail: Drinking, Cooking, Sanitary, Washing, (Small Garden) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 41 Yearly Rate (m3): 14933 Details: Cheapside, Reading Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st April 2008 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A18NE (N)	719	3	471200 173500
	Water Abstractions Operator: Hillier Group Of Companies Licence Number: 28/39/23/0128 Permit Version: 100 Location: Cardiff Road, Reading Point B Authority: Environment Agency, Thames Region Abstraction: Metal: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Cardiff Road, Reading Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st April 2008 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A22SE (N)	1228	3	470600 174000
	Water Abstractions Operator: Manrose Manufacturing Ltd Licence Number: 28/39/23/0167 Permit Version: 101 Location: Meadow Road, Reading, Berkshire Authority: Environment Agency, Thames Region Abstraction: Commercial/Industrial/Public Services: Drinking; Cooking; Sanitary; Washing; (Small Garden) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Meadow Road Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 30th June 2006 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A23SW (N)	1277	3	470900 174100

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Manrose Manufacturing Ltd Licence Number: 28/39/23/0167 Permit Version: 101 Location: Meadow Road, Reading, Berkshire Authority: Environment Agency, Thames Region Abstraction: Other Industrial/Commercial/Public Services: Non-Evaporative Cooling Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Meadow Road Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 30th June 2006 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A23SW (N)	1277	3	470900 174100
	Water Abstractions Operator: Manrose Manufacturing Ltd Licence Number: 28/39/23/0167 Permit Version: 100 Location: Meadow Road, Reading, Berkshire Authority: Environment Agency, Thames Region Abstraction: Commercial/Industrial/Public Services: Drinking; Cooking; Sanitary; Washing; (Small Garden) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 364 Yearly Rate (m3): 4546 Details: Meadow Road Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 10th February 1997 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A23SW (N)	1277	3	470900 174100
	Water Abstractions Operator: Manrose Manufacturing Ltd Licence Number: 28/39/23/0167 Permit Version: 100 Location: Meadow Road, Reading, Berkshire Authority: Environment Agency, Thames Region Abstraction: Other Industrial/Commercial/Public Services: Non-Evaporative Cooling Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Meadow Road Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 10th February 1997 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A23SW (N)	1277	3	470900 174100
	Water Abstractions Operator: Cox & Wyman Ltd Licence Number: 28/39/23/0041 Permit Version: 100 Location: Cardiff Road, Reading, Berkshire Authority: Environment Agency, Thames Region Abstraction: Other Industrial/Commercial/Public Services: Non-Evaporative Cooling Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 82 Yearly Rate (m3): 20366 Details: At Cardiff Road, Reading Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 11th July 1966 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A23SW (N)	1277	3	470900 174100

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Cox & Wyman Ltd Licence Number: 28/39/23/0041 Permit Version: 100 Location: Cardiff Road, Reading, Berkshire Authority: Environment Agency, Thames Region Abstraction: Commercial Private Water Undertaking; Drinking; Cooking; Sanitary; Washing; (Small Garden) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: At Cardiff Road Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 11th July 1966 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A23SW (N)	1277	3	470900 174100
	Water Abstractions Operator: Hillier Group Of Companies Licence Number: 28/39/23/0128 Permit Version: 100 Location: Cardiff Road, Reading Point A Authority: Environment Agency, Thames Region Abstraction: Metal: Process Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 27 Yearly Rate (m3): 6682 Details: Cardiff Road, Reading Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st April 2008 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A22SE (N)	1391	3	470400 174100
	Water Abstractions Operator: British Road Services Ltd Licence Number: 28/39/23/0024 Permit Version: Not Supplied Location: Cardiff Road, READING Authority: Environment Agency, Thames Region Abstraction: Vehicle Washing Abstraction Type: Not Supplied Source: Groundwater Daily Rate (m3): 14 Yearly Rate (m3): Not Supplied Details: River Gravel; Licence Status: Revoked; Lapsed Or Cancelled Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A22NE (N)	1420	3	470600 174200
	Water Abstractions Operator: Royal Berkshire Hospital Licence Number: 28/39/22/0521 Permit Version: 100 Location: Royal Berkshire Hospital Authority: Environment Agency, Thames Region Abstraction: Hospitals: Drinking; Cooking; Sanitary; Washing; (Small Garden) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 350 Yearly Rate (m3): 127750 Details: Royal Berkshire Hospital, Reading Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 17th January 1992 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A15NE (E)	1430	3	472400 172800

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Thames Water Utilities Ltd Licence Number: 28/39/22/0132 Permit Version: 101 Location: Fobney Pumping Station 'Bh C' Authority: Environment Agency, Thames Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 1st January 2013 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A3SW (S)	1545	3	470680 171230
	Water Abstractions Operator: Thames Water Utilities Ltd Licence Number: 28/39/22/0132 Permit Version: 100 Location: Fobney Pumping Station Bh 'C' Authority: Environment Agency, Thames Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 11th June 1998 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A3SW (S)	1545	3	470680 171230
	Water Abstractions Operator: Thames Water Utilities Ltd Licence Number: 28/39/22/0132 Permit Version: 101 Location: Fobney Pumping Station 'Bh G' Authority: Environment Agency, Thames Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 1st January 2013 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A3SW (S)	1557	3	470610 171230
	Water Abstractions Operator: Thames Water Utilities Ltd Licence Number: 28/39/22/0132 Permit Version: 100 Location: Fobney Pumping Station Bh 'G' Authority: Environment Agency, Thames Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 11th June 1998 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A3SW (S)	1557	3	470610 171230

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Thames Water Utilities Ltd Licence Number: 28/39/22/0132 Permit Version: 100 Location: Fobney Pumping Station Bh 'A' Authority: Environment Agency, Thames Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 30000 Yearly Rate (m3): 1500000 Details: Annual Abstraction Total Aggregated To Another Licence For Quantity Purposes. Chalk (Undifferentiate) Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 11th June 1998 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A3SW (S)	1558	3	470850 171200
	Water Abstractions Operator: West Berkshire Health Authority Licence Number: 28/39/23/0181 Permit Version: 100 Location: Battle Hospital, Oxford Road, Reading Authority: Environment Agency, Thames Region Abstraction: Hospitals: Drinking; Cooking; Sanitary; Washing; (Small Garden) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 400 Yearly Rate (m3): 136875 Details: Battle Hospital Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 7th January 1999 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A21SE (NW)	1562	3	469800 173900
	Water Abstractions Operator: Thames Water Utilities Ltd Licence Number: 28/39/22/0132 Permit Version: 100 Location: Fobney Pumping Station Bh 'B' Authority: Environment Agency, Thames Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 11th June 1998 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A3SW (S)	1563	3	470770 171200
	Water Abstractions Operator: Thames Water Utilities Ltd Licence Number: 28/39/22/0132 Permit Version: 101 Location: Fobney Pumping Station 'Bh A' Authority: Environment Agency, Thames Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 1st January 2013 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A3SW (S)	1578	3	470840 171180

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Thames Water Utilities Ltd Licence Number: 28/39/22/0132 Permit Version: 101 Location: Fobney Pumping Station 'Bh B' Authority: Environment Agency, Thames Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 1st January 2013 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A3SW (S)	1583	3	470770 171180
	Water Abstractions Operator: Thames Water Utilities Ltd Licence Number: 28/39/22/0132 Permit Version: 101 Location: Fobney Pumping Station 'Bh D' Authority: Environment Agency, Thames Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 1st January 2013 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A3SE (S)	1597	3	470970 171160
	Water Abstractions Operator: Thames Water Utilities Ltd Licence Number: 28/39/22/0132 Permit Version: 100 Location: Fobney Pumping Station Bh 'D' Authority: Environment Agency, Thames Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 11th June 1998 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A3SE (S)	1597	3	470970 171160
	Water Abstractions Operator: Wyncote Developments Plc Licence Number: 28/39/22/0555 Permit Version: Not Supplied Location: Rose Kiln Lane, READING, Berkshire Authority: Environment Agency, Thames Region Abstraction: General Industrial Abstraction Type: Not Supplied Source: Groundwater Daily Rate (m3): 864 Yearly Rate (m3): 315360 Details: Chalk (Undifferentiated) Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A4SW (S)	1619	3	471400 171200

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Thames Water Utilities Ltd Licence Number: 28/39/22/0132 Permit Version: 101 Location: Fobney Pumping Station 'Bh F' Authority: Environment Agency, Thames Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 1st January 2013 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A2SE (S)	1647	3	470380 171200
	Water Abstractions Operator: Thames Water Utilities Ltd Licence Number: 28/39/22/0132 Permit Version: 101 Location: Fobney Pumping Station 'Bh H' Authority: Environment Agency, Thames Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 1st January 2013 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A3SW (S)	1647	3	470660 171130
	Water Abstractions Operator: Thames Water Utilities Ltd Licence Number: 28/39/22/0132 Permit Version: 100 Location: Fobney Pumping Station Bh 'F' Authority: Environment Agency, Thames Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 11th June 1998 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A2SE (S)	1647	3	470380 171200
	Water Abstractions Operator: Thames Water Utilities Ltd Licence Number: 28/39/22/0132 Permit Version: 100 Location: Fobney Pumping Station Bh 'H' Authority: Environment Agency, Thames Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 11th June 1998 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A3SW (S)	1647	3	470660 171130

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Thames Water Utilities Ltd Licence Number: 28/39/22/0132 Permit Version: 101 Location: Fobney Pumping Station 'Bh E' Authority: Environment Agency, Thames Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 1st January 2013 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A2SE (S)	1675	3	470300 171200
	Water Abstractions Operator: Thames Water Utilities Ltd Licence Number: 28/39/22/0132 Permit Version: 100 Location: Fobney Pumping Station Bh 'E' Authority: Environment Agency, Thames Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 11th June 1998 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A2SE (S)	1675	3	470300 171200
	Water Abstractions Operator: Thames Water Utilities Ltd Licence Number: 28/39/22/0435 Permit Version: 100 Location: Kennet And Avon Canal At Fobney Waterworks Intake Authority: Environment Agency, Thames Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): 72736 Yearly Rate (m3): 26621376 Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 5th April 1977 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A2SE (S)	1675	3	470300 171200
	Water Abstractions Operator: Environment Agency Licence Number: 28/39/22/0527 Permit Version: 101 Location: Kennet And Avon Canal At Fobney Fish Farm Intakes Authority: Environment Agency, Thames Region Abstraction: Aquaculture: Fish Farm/Cress Pond Throughflow Abstraction Type: Water may be abstracted from a river or stream reach, or a row of wellpoints Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Fobney Mead, Reading Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 10th October 2006 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A2SE (S)	1690	3	470460 171130

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Network Rail Infrastr Ltd Licence Number: 28/39/22/0266 Permit Version: 101 Location: Railtrack Property, Southcote, Reading Authority: Environment Agency, Thames Region Abstraction: Transport: General Use (Medium Loss) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Southcote, Reading Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 3rd February 2003 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A1NE (SW)	1691	3	469600 171700
	Water Abstractions Operator: Railtrack Gw Licence Number: 28/39/22/0266 Permit Version: 100 Location: Railtrack Property, Southcote, Reading Authority: Environment Agency, Thames Region Abstraction: Transport: General Use (Medium Loss) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 909 Yearly Rate (m3): 250030 Details: Southcote, Reading Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 12th December 1966 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A1NE (SW)	1691	3	469600 171700
	Water Abstractions Operator: Environment Agency Licence Number: 28/39/22/0527 Permit Version: 100 Location: Kennet And Avon Canal At Fobney Fish Farm Intakes Authority: Environment Agency, Thames Region Abstraction: Aquaculture: Fish Farm/Cress Pond Throughflow Abstraction Type: Water may be abstracted from a river or stream reach, or a row of wellpoints Source: Surface Daily Rate (m3): 12730 Yearly Rate (m3): 2382154 Details: Fobney Mead, Reading Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 11th August 1993 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A2SE (S)	1692	3	470420 171140
	Water Abstractions Operator: Reading Borough Council Licence Number: 28/39/23/0199/Tr Permit Version: 1 Location: River Thames - Christchurch Meadows Authority: Environment Agency, Thames Region Abstraction: Environmental: Non-remedial River/Wetland Support: Transfer between sources Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Christchurch Meadows, Caversham Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 10th September 2008 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A24NW (N)	1697	3	471440 174450

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Reading Borough Council Licence Number: 28/39/23/0196 Permit Version: 1 Location: Thames At Christchurch Meadow Authority: Environment Agency, Thames Region Abstraction: Environmental: Non-remedial River/Wetland Support: Lake & Pond Throughflow Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: At Christchurch Meadows Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st April 2006 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A24NW (N)	1697	3	471440 174450
	Water Abstractions Operator: Mr D A Drayton Licence Number: 28/39/23/0070 Permit Version: 100 Location: Little John'S Farm, Reading (E) Authority: Environment Agency, Thames Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Little John'S Farm, Reading Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 9th January 1967 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A22NW (NW)	1703	3	470100 174300
	Water Abstractions Operator: White Knight Laundry Services Ltd Licence Number: 28/39/23/0020 Permit Version: 101 Location: 72 George Street, Caversham, - Borehole 'A' Authority: Environment Agency, Thames Region Abstraction: Industrial; Commercial And Public Services: Laundry Use Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: 72 George Street, Caversham Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 30th December 2004 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A24NE (NE)	1838	3	471900 174400
	Water Abstractions Operator: Reading & Cav'M Laundry Co Ltd Licence Number: 28/39/23/0020 Permit Version: 100 Location: 72 George Street, Caversham, - Borehole 'A' Authority: Environment Agency, Thames Region Abstraction: Industrial; Commercial And Public Services: Laundry Use Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 300 Yearly Rate (m3): 68190 Details: 72 George Street, Caversham Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 9th May 1966 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A24NE (NE)	1838	3	471900 174400

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: M J Gleeson Group Plc Licence Number: 28/39/22/0600 Permit Version: 1 Location: Former Gasworks, Kenavon Drive, Reading (5 Boreholes) Authority: Environment Agency, Thames Region Abstraction: Environmental: Pump & Treat: Pollution Remediation Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Former Gasworks, Kenavon Drive Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 31st July 2000 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(NE)	1907	3	472700 173600
	Water Abstractions Operator: Mr D A Drayton Licence Number: 28/39/23/0070 Permit Version: 100 Location: Little John'S Farm, Reading (D) Authority: Environment Agency, Thames Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Little John'S Farm, Reading Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 9th January 1967 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(NW)	1970	3	470100 174600
	Water Abstractions Operator: Mr D A Drayton Licence Number: 28/39/23/0070 Permit Version: 100 Location: Little John'S Farm, Reading (A) Authority: Environment Agency, Thames Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Little John'S Farm, Reading Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 9th January 1967 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A21NW (NW)	1987	3	469500 174200
	Groundwater Vulnerability Soil Classification: Soils of High Leaching Potential (U) - Soil information for restored mineral workings and urban areas is based on fewer observations than elsewhere. A worst case vulnerability classification (H) assumed, until proved otherwise Map Sheet: Sheet 39 West London Scale: 1:100,000	A13SE (SW)	0	3	470942 172787
	Drift Deposits None				
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A13SE (SW)	0	4	470942 172787
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A13SE (SW)	0	4	470942 172787
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SE (E)	179	3	471149 172747
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SE (E)	179	3	471149 172747
	Areas Benefiting from Flood Defences None				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Flood Water Storage Areas None				
	Flood Defences None				
64	Detailed River Network Lines River Type: Primary River River Name: Holy Brook Hydrographic Area: D006 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Flood Risk Management Indicative/Statutory Main River Management Status: Water Course: Kennet Name: Water Course: 22KE Reference:	A13NE (E)	268	3	471232 172826
65	Detailed River Network Lines River Type: Extended Culvert (greater than 50m) River Name: Not Supplied Hydrographic Area: D006 River Flow Type: Secondary Flow Path River Surface Level: Below Surface Drain Feature: Not a Drain Flood Risk: Currently Undefined Management Status: Water Course: Kennet Name: Water Course: 22KE Reference:	A13NE (NE)	394	3	471274 173056
66	Detailed River Network Lines River Type: Primary River River Name: Holy Brook Hydrographic Area: D006 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Flood Risk Management Indicative/Statutory Main River Management Status: Water Course: Kennet Name: Water Course: 22KE Reference:	A13NE (NE)	394	3	471274 173056
67	Detailed River Network Lines River Type: Primary River River Name: River Kennet Hydrographic Area: D006 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Flood Risk Management Indicative/Statutory Main River Management Status: Water Course: Kennet Name: Water Course: 22KE Reference:	A14NW (E)	399	3	471366 172812
68	Detailed River Network Lines River Type: Primary River River Name: Not Supplied Hydrographic Area: D006 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Flood Risk Management Indicative/Statutory Main River Management Status: Water Course: Kennet Name: Water Course: 22KE Reference:	A14NW (E)	432	3	471380 172925

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
69	Detailed River Network Lines River Type: Secondary River River Name: Not Supplied Hydrographic Area: D006 River Flow Type: Secondary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Currently Undefined Management Status: Water Course: Kennet Name: Water Course: 22KE Reference:	A14NW (E)	432	3	471380 172925
70	Detailed River Network Lines River Type: Primary River River Name: River Kennet Hydrographic Area: D006 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Flood Risk Management Indicative/Statutory Main River Management Status: Water Course: Kennet Name: Water Course: 22KE Reference:	A14NW (E)	480	3	471414 172978
71	Detailed River Network Lines River Type: Extended Culvert (greater than 50m) River Name: Holy Hydrographic Area: D006 River Flow Type: Primary Flow Path River Surface Level: Below Surface Drain Feature: Not a Drain Flood Risk: Flood Risk Management Indicative/Statutory Main River Management Status: Water Course: Kennet Name: Water Course: 22KE Reference:	A19SW (NE)	484	3	471326 173133
72	Detailed River Network Lines River Type: Primary River River Name: Holy Brook Hydrographic Area: D006 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Flood Risk Management Indicative/Statutory Main River Management Status: Water Course: Kennet Name: Water Course: 22KE Reference:	A8NE (SE)	500	3	471273 172364
	Detailed River Network Offline Drainage None				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
73	Historical Landfill Sites Licence Holder: Not Supplied Location: Reading, Berkshire Name: Waterloo Meadows Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHL13289 First Input Date: Not Supplied Last Input Date: Not Supplied Specified Waste Type: Deposited Waste included Inert and Industrial Waste EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 0345/0198 BGS Ref: Not Supplied Other Ref: TP0154, RDG8	A9SW (SE)	786	3	471384 172094
74	Licensed Waste Management Facilities (Locations) Licence Number: 86001 Location: 54 Gower Street, Reading, Berkshire, RG1 7PE Operator Name: E G W Carter Operator Location: Not Supplied Authority: Environment Agency - South East Region, West Thames Area Site Category: Metal Recycling Sites (Mixed) Licence Status: Surrendered Issued: 19th March 1996 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: 23rd July 1999 IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 100m	A17NE (NW)	948	3	470400 173600
	Local Authority Landfill Coverage Name: Reading Unitary Council - Has supplied landfill data		0	8	470942 172787
75	Registered Waste Treatment or Disposal Sites Licence Holder: E G W Carter Licence Reference: 54/12/4/408 Site Location: 54 Gower Street, READING, Berkshire, RG1 7PE Operator Location: 143 Blagdon Road, READING, Berkshire, RG2 7NE Authority: Environment Agency - Thames Region, West Area Site Category: Scrapyard Max Input Rate: Very Small (Less than 10,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Licence Status: Licence has completion certificateSurrendered Dated: 19th March 1996 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the address or location Boundary Quality: Not Supplied Authorised Waste: Electrical Appliances Electrical Cable Ferrous Metal Scrap (Solid Forms) Industrial Machinery Max.Waste In Licence Annotation Non-Ferrous Metal Scrap (Solid Forms) Prohibited Waste: Any Metal In Fine Powder Form Biodegradable/Food/Veg.Matter Lead/Acid Batteries Liquid/Sludge Wastes Paper/Cardboard/Packaging Special Wastes Sub'S Control. Radioactive Subs Act'60 W.Giving Danger Fire/Explos/Fume/Gas Waste Containing Flammable Solvents Waste Containing Pcb's Waste Containing Phenols/Derivatives Waste N.O.S. Waste With Flash Pt < 40 C	A17NE (NW)	950	3	470380 173590

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Lambeth Group	A13SE (SW)	0	4	470942 172787
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A13SE (SW)	0	4	470942 172787
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A13SE (E)	15	4	470987 172785
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A13SE (E)	30	4	471000 172787
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: <15 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A13SE (SE)	127	4	471041 172656
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: <15 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A13SE (S)	169	4	471000 172595
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A13NE (N)	176	4	470942 173000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A13NE (N)	182	4	471000 173000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A13SE (SE)	193	4	471080 172603
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: <15 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A13SW (SW)	218	4	470841 172553
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A13SE (S)	225	4	471000 172538
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A13NW (NW)	230	4	470794 173000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: <15 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A13NE (NE)	255	4	471138 173000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: <15 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A13SE (S)	291	4	471035 172478
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: <15 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A13SE (S)	298	4	471000 172465
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A13NE (NE)	317	4	471219 173000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A18SE (N)	328	4	470954 173152
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A18SE (N)	332	4	471000 173153
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A8NW (SW)	354	4	470789 172428

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: <15 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A13NE (NE)	366	4	471165 173123
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: <15 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A18SW (N)	373	4	470892 173193
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: <15 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A18SE (N)	375	4	471000 173196
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: <15 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A18SW (N)	389	4	470830 173193
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: <15 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A14SW (E)	459	4	471429 172741
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: <15 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A14NW (E)	464	4	471432 172803

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A14SW (E)	467	4	471437 172777
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A14SW (E)	475	4	471445 172747
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: <15 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A14NW (E)	489	4	471447 172876
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: <15 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A14SW (E)	495	4	471445 172622
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A7NE (SW)	530	4	470545 172383
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: <15 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A8NE (S)	569	4	471000 172192

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: <15 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A14NW (E)	578	4	471510 173000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A8NE (S)	592	4	471000 172168
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: <15 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A14NW (E)	679	4	471615 173000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: <15 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A14SE (E)	684	4	471623 172558
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A14SE (E)	707	4	471638 172530
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: <15 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A9NW (SE)	737	4	471455 172207

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A8SE (S)	756	4	470942 172000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A8SE (S)	760	4	471000 172000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: <15 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A8SW (S)	783	4	470717 172000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A14NE (E)	817	4	471757 173000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: <15 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A19SE (NE)	839	4	471717 173180
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A12NW (W)	851	4	470108 173080

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A18NE (N)	864	4	471040 173684
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A18NW (N)	865	4	470774 173673
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: <15 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A9SW (SE)	870	4	471392 172000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A12NW (W)	888	4	470046 173000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A12SW (W)	899	4	470024 172666
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A9SW (SE)	912	4	471473 172000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A12SW (W)	912	4	470000 172787
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A12NW (W)	915	4	470000 172878
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A12NW (W)	933	4	470000 173000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A12SW (W)	937	4	470000 172581
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: <15 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A12NW (W)	957	4	470000 173091
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: <15 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A17SW (W)	972	4	470000 173139

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: <15 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A17NE (NW)	977	4	470509 173694
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A7SE (SW)	983	4	470293 172000
76	BGS Recorded Mineral Sites Site Name: Coley Pottery Location: , Coley, Reading, Berkshire Source: British Geological Survey, National Geoscience Information Service Reference: 36344 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Palaeocene Geology: Lambeth Group Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A13SE (SE)	110	4	471044 172680
77	BGS Recorded Mineral Sites Site Name: Avenue Works Location: , Coley, Reading, Berkshire Source: British Geological Survey, National Geoscience Information Service Reference: 36339 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Palaeocene Geology: Reading Formation Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A8NW (S)	315	4	470872 172445
78	BGS Recorded Mineral Sites Site Name: Coley Kilns Location: , Coley, Reading, Berkshire Source: British Geological Survey, National Geoscience Information Service Reference: 36341 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Palaeocene Geology: Reading Formation Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A13SE (S)	315	4	471046 172456
79	BGS Recorded Mineral Sites Site Name: Coley Kilns Location: , Coley, Reading, Berkshire Source: British Geological Survey, National Geoscience Information Service Reference: 36340 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Palaeocene Geology: Reading Formation Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A8NE (S)	423	4	470968 172336

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
80	BGS Recorded Mineral Sites Site Name: Highgrove Brick Field Location: , Coley, Reading, Berkshire Source: British Geological Survey, National Geoscience Information Service Reference: 36343 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Palaeocene Geology: Lambeth Group Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A14SW (SE)	645	4	471552 172483
81	BGS Recorded Mineral Sites Site Name: Coley Park Gravel Pit Location: , Coley, Reading, Berkshire Source: British Geological Survey, National Geoscience Information Service Reference: 36378 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Quaternary Geology: Lynch Hill Gravel Member Commodity: Sand and Gravel Positional Accuracy: Located by supplier to within 10m	A7NW (SW)	820	4	470254 172279
82	BGS Recorded Mineral Sites Site Name: Kalesgrove Kilns Location: , Coley, Reading, Berkshire Source: British Geological Survey, National Geoscience Information Service Reference: 36342 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Palaeogene Geology: London Clay Formation Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A14SE (E)	850	4	471778 172498
83	BGS Recorded Mineral Sites Site Name: Coley Park Gravel Pit Location: , Southcote, Reading, Berkshire Source: British Geological Survey, National Geoscience Information Service Reference: 36383 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Quaternary Geology: Lynch Hill Gravel Member Commodity: Sand and Gravel Positional Accuracy: Located by supplier to within 10m	A7NW (SW)	867	4	470134 172393
	BGS Measured Urban Soil Chemistry No data available				
	BGS Urban Soil Chemistry Averages No data available				
	Coal Mining Affected Areas In an area that might not be affected by coal mining				
	Mining Instability Mining Evidence: Conclusive Rock Mining Source: Ove Arup & Partners Boundary Quality: As Supplied	A13SE (SW)	0	-	470942 172787
	Man-Made Mining Cavities Easting: 470950 Northing: 172800 Distance: 0 Quadrant Reference: A13 Quadrant Reference: NE Bearing Ref: NE Cavity Type: PROBABLE BELLPIT CHALK MINE Commodity: Chalk Solid Geology Detail: Lambeth Group, Upper Chalk Formation Superficial Geology: Lynch Hill Gravels Detail:	A13NE (NE)	0	5	470950 172800

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Man-Made Mining Cavities Easting: 470970 Northing: 172830 Distance: 17 Quadrant Reference: A13 Quadrant Reference: NE Bearing Ref: NE Cavity Type: CHALK MINE TUNNEL Commodity: Chalk Solid Geology Detail: Lambeth Group, Upper Chalk Formation Superficial Geology Lynch Hill Gravels Detail:	A13NE (NE)	17	5	470970 172830
	Man-Made Mining Cavities Easting: 470980 Northing: 172740 Distance: 23 Quadrant Reference: A13 Quadrant Reference: SE Bearing Ref: SE Cavity Type: Series Of Small Scale Chalk Mine Tunnels Commodity: Chalk Solid Geology Detail: Lambeth Group, Upper Chalk Formation Superficial Geology No Details Detail:	A13SE (SE)	23	5	470980 172740
	Man-Made Mining Cavities Easting: 471000 Northing: 172800 Distance: 35 Quadrant Reference: A13 Quadrant Reference: NE Bearing Ref: E Cavity Type: Adit and Shaft Entry Pillar and Stall Chalk Mine Commodity: Chalk Solid Geology Detail: Lambeth Group, Upper Chalk Formation Superficial Geology Lynch Hill Gravels Detail:	A13NE (E)	35	5	471000 172800
	Man-Made Mining Cavities Easting: 471030 Northing: 172720 Distance: 73 Quadrant Reference: A13 Quadrant Reference: SE Bearing Ref: SE Cavity Type: Small Scale Chalk Mine Commodity: Chalk Solid Geology Detail: Lambeth Group, Upper Chalk Formation Superficial Geology No Details Detail:	A13SE (SE)	73	5	471030 172720
	Man-Made Mining Cavities Easting: 471000 Northing: 172900 Distance: 89 Quadrant Reference: A13 Quadrant Reference: NE Bearing Ref: NE Cavity Type: Multiple Small-Scale Shaft Entry Pillar and Stall Workings Commodity: Chalk Solid Geology Detail: Lambeth Group, Upper Chalk Formation Superficial Geology Lynch Hill Gravels Detail:	A13NE (NE)	89	5	471000 172900
	Man-Made Mining Cavities Easting: 471050 Northing: 172900 Distance: 123 Quadrant Reference: A13 Quadrant Reference: NE Bearing Ref: NE Cavity Type: Pillar and Stall Chalk Mine (Extent Unknown) Commodity: Chalk Solid Geology Detail: Lambeth Group, Upper Chalk Formation Superficial Geology No Details Detail:	A13NE (NE)	123	5	471050 172900

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Man-Made Mining Cavities Easting: 470930 Northing: 172950 Distance: 128 Quadrant Reference: A13 Quadrant Reference: NW Bearing Ref: N Cavity Type: MINE GALLERY (EXTENT UNKNOWN) GROUND ANOMALIES Commodity: Chalk Solid Geology Detail: Lambeth Group, Upper Chalk Formation Superficial Geology Lynch Hill Gravels Detail:	A13NW (N)	128	5	470930 172950
	Man-Made Mining Cavities Easting: 471000 Northing: 172950 Distance: 134 Quadrant Reference: A13 Quadrant Reference: NE Bearing Ref: N Cavity Type: Multiple Small-Scale Shaft Entry Pillar and Stall Workings Commodity: Chalk Solid Geology Detail: Lambeth Group, Upper Chalk Formation Superficial Geology Lynch Hill Gravels Detail:	A13NE (N)	134	5	471000 172950
	Man-Made Mining Cavities Easting: 471100 Northing: 172700 Distance: 144 Quadrant Reference: A13 Quadrant Reference: SE Bearing Ref: SE Cavity Type: Historical Pottery Works-Potential Chalk Mining Commodity: Chalk Solid Geology Detail: Lambeth Group, Upper Chalk Formation Superficial Geology No Details Detail:	A13SE (SE)	144	5	471100 172700
	Man-Made Mining Cavities Easting: 471050 Northing: 172950 Distance: 159 Quadrant Reference: A13 Quadrant Reference: NE Bearing Ref: NE Cavity Type: 6x Possible Mine Workings/Ground Anomalies Commodity: Chalk Solid Geology Detail: Lambeth Group, Upper Chalk Formation Superficial Geology No Details Detail:	A13NE (NE)	159	5	471050 172950
	Man-Made Mining Cavities Easting: 470950 Northing: 173040 Distance: 216 Quadrant Reference: A13 Quadrant Reference: NE Bearing Ref: N Cavity Type: 3 Possible Mine Workings/Ground Anomalies Ground Anomalies Commodity: Chalk Solid Geology Detail: Lambeth Group, Upper Chalk Formation Superficial Geology No Details Detail:	A13NE (N)	216	5	470950 173040
	Man-Made Mining Cavities Easting: 470960 Northing: 173040 Distance: 216 Quadrant Reference: A13 Quadrant Reference: NE Bearing Ref: N Cavity Type: Shaft Entry Mine Workings/Ground Anomalies Ground Anomalies Commodity: Chalk Solid Geology Detail: Lambeth Group, Upper Chalk Formation Superficial Geology No Details Detail:	A13NE (N)	216	5	470960 173040

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Man-Made Mining Cavities Easting: 470950 Northing: 173050 Distance: 226 Quadrant Reference: A13 Quadrant Reference: NE Bearing Ref: N Cavity Type: 5 Possible Mine Workings/Ground Anomalies Ground Anomalies Commodity: Chalk Solid Geology Detail: Lambeth Group, Upper Chalk Formation Superficial Geology No Details Detail:	A13NE (N)	226	5	470950 173050
	Man-Made Mining Cavities Easting: 470940 Northing: 173050 Distance: 226 Quadrant Reference: A13 Quadrant Reference: NW Bearing Ref: N Cavity Type: 3 Possible Mine Workings/Ground Anomalies Ground Anomalies Commodity: Chalk Solid Geology Detail: Lambeth Group, Upper Chalk Formation Superficial Geology No Details Detail:	A13NW (N)	226	5	470940 173050
	Man-Made Mining Cavities Easting: 470750 Northing: 172450 Distance: 351 Quadrant Reference: A8 Quadrant Reference: NW Bearing Ref: SW Cavity Type: Historical Brick and Tile Works/Extensive Clay Excavations-Potential Chalk Mining Commodity: Chalk Solid Geology Detail: Lambeth Group, Upper Chalk Formation Superficial Geology Worked Ground Detail:	A8NW (SW)	351	5	470750 172450
	Man-Made Mining Cavities Easting: 471000 Northing: 172400 Distance: 362 Quadrant Reference: A8 Quadrant Reference: NE Bearing Ref: S Cavity Type: Historical Brick & Tile Works/Extensive Clay Excavations-Possible References to Chalk Mining Commodity: Chalk Solid Geology Detail: Lambeth Group, Upper Chalk Formation Superficial Geology Worked Ground Detail:	A8NE (S)	362	5	471000 172400
	Man-Made Mining Cavities Easting: 470540 Northing: 173050 Distance: 447 Quadrant Reference: A12 Quadrant Reference: NE Bearing Ref: NW Cavity Type: Old Gravel Pit Pre 1883 But Deepened Possibly for Clay Extraction for Brick Making with Associated Chalk Mine Workings Commodity: Chalk Solid Geology Detail: Chalk Group, Lambeth Group Superficial Geology Lynch Hill Gravels Detail:	A12NE (NW)	447	5	470540 173050
	Man-Made Mining Cavities Easting: 470500 Northing: 173000 Distance: 457 Quadrant Reference: A12 Quadrant Reference: NE Bearing Ref: NW Cavity Type: Voids Encountered During Piling Commodity: Chalk Solid Geology Detail: Lambeth Group, Upper Chalk Formation Superficial Geology Lynch Hill Gravels Detail:	A12NE (NW)	457	5	470500 173000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Man-Made Mining Cavities Easting: 470700 Northing: 172350 Distance: 462 Quadrant Reference: A8 Quadrant Reference: NW Bearing Ref: SW Cavity Type: Historical Brickfield-Potential Chalk Mining Commodity: Chalk Solid Geology Detail: Lambeth Group, Upper Chalk Formation Superficial Geology Lynch Hill Gravels Detail:	A8NW (SW)	462	5	470700 172350
	Man-Made Mining Cavities Easting: 471500 Northing: 172650 Distance: 541 Quadrant Reference: A14 Quadrant Reference: SW Bearing Ref: E Cavity Type: Historical Brickworks-Multiple References to Chalk Mining Commodity: Chalk Solid Geology Detail: Lambeth Group, Upper Chalk Formation Superficial Geology Worked Ground Detail:	A14SW (E)	541	5	471500 172650
	Man-Made Mining Cavities Easting: 471500 Northing: 172600 Distance: 554 Quadrant Reference: A14 Quadrant Reference: SW Bearing Ref: E Cavity Type: Shaft described-for Pillar and Stall Chalk Mine Commodity: Chalk Solid Geology Detail: Lambeth Group, Upper Chalk Formation Superficial Geology Worked Ground Detail:	A14SW (E)	554	5	471500 172600
	Man-Made Mining Cavities Easting: 470350 Northing: 173020 Distance: 603 Quadrant Reference: A12 Quadrant Reference: NE Bearing Ref: W Cavity Type: Pillar and Stall Chalk workings-Extent Unknown Commodity: Chalk Solid Geology Detail: Lambeth Group, Upper Chalk Formation Superficial Geology Lynch Hill Gravels Detail:	A12NE (W)	603	5	470350 173020
	Man-Made Mining Cavities Easting: 471550 Northing: 172450 Distance: 658 Quadrant Reference: A9 Quadrant Reference: NW Bearing Ref: SE Cavity Type: Shaft described-for Pillar and Stall Chalk Mine Commodity: Chalk Solid Geology Detail: Lambeth Group, Upper Chalk Formation Superficial Geology Worked Ground Detail:	A9NW (SE)	658	5	471550 172450
	Man-Made Mining Cavities Easting: 470300 Northing: 173200 Distance: 730 Quadrant Reference: A17 Quadrant Reference: SE Bearing Ref: NW Cavity Type: Pillar and Stall Chalk workings-Extent Unknown Commodity: Chalk Solid Geology Detail: Lambeth Group, Upper Chalk Formation Superficial Geology Lynch Hill Gravels Detail:	A17SE (NW)	730	5	470300 173200

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Man-Made Mining Cavities Easting: 471700 Northing: 172700 Distance: 732 Quadrant Reference: A14 Quadrant Reference: SE Bearing Ref: E Cavity Type: Chalkwell/Possible Shaft Entry Pillar and Stall Chalk Mine Commodity: Chalk Solid Geology Detail: Lambeth Group, Upper Chalk Formation Superficial Geology No Details Detail:	A14SE (E)	732	5	471700 172700
	Man-Made Mining Cavities Easting: 471700 Northing: 172650 Distance: 738 Quadrant Reference: A14 Quadrant Reference: SE Bearing Ref: E Cavity Type: Historical Brick Works/Extensive Clay Excavations-Potential Chalk Mining Commodity: Chalk Solid Geology Detail: Lambeth Group, Upper Chalk Formation Superficial Geology No Details Detail:	A14SE (E)	738	5	471700 172650
	Man-Made Mining Cavities Easting: 471700 Northing: 172900 Distance: 742 Quadrant Reference: A14 Quadrant Reference: NE Bearing Ref: E Cavity Type: Subsidence-Over Possible Excavation/Shallow Bell Pit Commodity: Chalk Solid Geology Detail: Lambeth Group, Upper Chalk Formation Superficial Geology Taplow Gravel Detail:	A14NE (E)	742	5	471700 172900
	Man-Made Mining Cavities Easting: 470170 Northing: 172980 Distance: 763 Quadrant Reference: A12 Quadrant Reference: NW Bearing Ref: W Cavity Type: Old Clay Pit Pre 1877, Possible Old Brick Works, Might be Associated with Railway, Potential for Old Chalk Mine Workings Commodity: Chalk Solid Geology Detail: Chalk Group, Lambeth Group Superficial Geology Lynch Hill Gravels Detail:	A12NW (W)	763	5	470170 172980
	Man-Made Mining Cavities Easting: 471700 Northing: 172500 Distance: 775 Quadrant Reference: A14 Quadrant Reference: SE Bearing Ref: E Cavity Type: Historical Brick Works-Potential Chalk Mining Commodity: Chalk Solid Geology Detail: London Clay, Lambeth Group, Upper Chalk Formation Superficial Geology Boyn Hill Gravel Detail:	A14SE (E)	775	5	471700 172500
	Man-Made Mining Cavities Easting: 470110 Northing: 172760 Distance: 804 Quadrant Reference: A12 Quadrant Reference: SW Bearing Ref: W Cavity Type: Old Clay Pit Pre 1877, Possible Old Brick Works, Might be Associated with Railway, Potential for Old Chalk Mine Workings Commodity: Chalk Solid Geology Detail: Chalk Group, Lambeth Group Superficial Geology Lynch Hill Gravels Detail:	A12SW (W)	804	5	470110 172760

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Man-Made Mining Cavities Easting: 471790 Northing: 172750 Distance: 820 Quadrant Reference: A14 Quadrant Reference: SE Bearing Ref: E Cavity Type: Crown Hole Collapse Commodity: Chalk Solid Geology Detail: Lambeth Group, Upper Chalk Formation Superficial Geology No Details Detail:	A14SE (E)	820	5	471790 172750
	Man-Made Mining Cavities Easting: 471850 Northing: 172500 Distance: 918 Quadrant Reference: A14 Quadrant Reference: SE Bearing Ref: E Cavity Type: Historical Brick Kiln-References to Chalk Mining Commodity: Chalk Solid Geology Detail: London Clay, Lambeth Group, Upper Chalk Formation Superficial Geology No Details Detail:	A14SE (E)	918	5	471850 172500
	Man-Made Mining Cavities Easting: 471900 Northing: 172700 Distance: 932 Quadrant Reference: A14 Quadrant Reference: SE Bearing Ref: E Cavity Type: Historical Brick Kiln-Potential Chalk Mining Commodity: Chalk Solid Geology Detail: Lambeth Group, Upper Chalk Formation Superficial Geology No Details Detail:	A14SE (E)	932	5	471900 172700
	Man-Made Mining Cavities Easting: 471600 Northing: 172000 Distance: 988 Quadrant Reference: A9 Quadrant Reference: SW Bearing Ref: SE Cavity Type: Historical Brick Works/Extensive Clay Excavations-Potential Chalk Mining Commodity: Chalk Solid Geology Detail: Lambeth Group, Upper Chalk Formation Superficial Geology Worked Ground Detail:	A9SW (SE)	988	5	471600 172000
	Man-Made Mining Cavities Easting: 471950 Northing: 172890 Distance: 988 Quadrant Reference: A14 Quadrant Reference: NE Bearing Ref: E Cavity Type: Brick/Tile Kiln Discovered-Potential Chalk Mining Commodity: Chalk Solid Geology Detail: Chalk Group Superficial Geology Taplow Gravel Detail:	A14NE (E)	988	5	471950 172890
	Natural Cavities Easting: 470990 Northing: 172770 Distance: 21 Quadrant Reference: A13 Quadrant Reference: SE Bearing Ref: E Cavity Type: Solution Pipe Solid Geology Detail: Chalk Group, Lambeth Group Superficial Geology No Details Detail:	A13SE (E)	21	5	470990 172770

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Natural Cavities Easting: 471000 Northing: 172750 Distance: 32 Quadrant Reference: A13 Quadrant Reference: SE Bearing Ref: SE Cavity Type: Solution Pipe Solid Geology Detail: Chalk Group, Lambeth Group Superficial Geology Lynch Hill Gravel Detail:	A13SE (SE)	32	5	471000 172750
	Natural Cavities Easting: 471000 Northing: 172840 Distance: 46 Quadrant Reference: A13 Quadrant Reference: NE Bearing Ref: NE Cavity Type: Solution Pipe Solid Geology Detail: Chalk Group, Lambeth Group Superficial Geology No Details Detail:	A13NE (NE)	46	5	471000 172840
	Natural Cavities Easting: 471000 Northing: 172720 Distance: 51 Quadrant Reference: A13 Quadrant Reference: SE Bearing Ref: SE Cavity Type: Solution Pipe Solid Geology Detail: Chalk Group, Lambeth Group Superficial Geology No Details Detail:	A13SE (SE)	51	5	471000 172720
	Natural Cavities Easting: 471020 Northing: 172840 Distance: 63 Quadrant Reference: A13 Quadrant Reference: NE Bearing Ref: NE Cavity Type: Solution Pipe x 3 Solid Geology Detail: Chalk Group, Lambeth Group Superficial Geology No Details Detail:	A13NE (NE)	63	5	471020 172840
	Natural Cavities Easting: 471040 Northing: 172670 Distance: 115 Quadrant Reference: A13 Quadrant Reference: SE Bearing Ref: SE Cavity Type: Solution Pipe Solid Geology Detail: Chalk Group, Lambeth Group Superficial Geology No Details Detail:	A13SE (SE)	115	5	471040 172670
	Natural Cavities Easting: 470990 Northing: 172940 Distance: 121 Quadrant Reference: A13 Quadrant Reference: NE Bearing Ref: N Cavity Type: Solution Pipe Solid Geology Detail: Chalk Group, Lambeth Group Superficial Geology No Details Detail:	A13NE (N)	121	5	470990 172940
	Natural Cavities Easting: 471100 Northing: 172760 Distance: 130 Quadrant Reference: A13 Quadrant Reference: SE Bearing Ref: E Cavity Type: Solution Pipe Solid Geology Detail: Chalk Group, Lambeth Group Superficial Geology No Details Detail:	A13SE (E)	130	5	471100 172760

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Natural Cavities Easting: 471040 Northing: 172650 Distance: 131 Quadrant Reference: A13 Quadrant Reference: SE Bearing Ref: SE Cavity Type: Solution Pipe Solid Geology Detail: Chalk Group Superficial Geology No Details Detail:	A13SE (SE)	131	5	471040 172650
	Natural Cavities Easting: 471020 Northing: 172640 Distance: 131 Quadrant Reference: A13 Quadrant Reference: SE Bearing Ref: SE Cavity Type: Solution Pipe Solid Geology Detail: Chalk Group, Lambeth Group Superficial Geology No Details Detail:	A13SE (SE)	131	5	471020 172640
	Natural Cavities Easting: 471040 Northing: 172640 Distance: 140 Quadrant Reference: A13 Quadrant Reference: SE Bearing Ref: SE Cavity Type: Solution Pipe Solid Geology Detail: Chalk Group Superficial Geology No Details Detail:	A13SE (SE)	140	5	471040 172640
	Natural Cavities Easting: 471030 Northing: 172630 Distance: 144 Quadrant Reference: A13 Quadrant Reference: SE Bearing Ref: SE Cavity Type: Solution Pipe Solid Geology Detail: Chalk Group, Lambeth Group Superficial Geology No Details Detail:	A13SE (SE)	144	5	471030 172630
	Natural Cavities Easting: 470950 Northing: 172980 Distance: 156 Quadrant Reference: A13 Quadrant Reference: NE Bearing Ref: N Cavity Type: Solution Pipe x 2 Solid Geology Detail: Chalk Group, Lambeth Group Superficial Geology Lynch Hill Gravel Detail:	A13NE (N)	156	5	470950 172980
	Natural Cavities Easting: 471130 Northing: 172730 Distance: 163 Quadrant Reference: A13 Quadrant Reference: SE Bearing Ref: E Cavity Type: Solution Pipe Solid Geology Detail: Chalk Group, Lambeth Group Superficial Geology No Details Detail:	A13SE (E)	163	5	471130 172730
	Natural Cavities Easting: 470970 Northing: 172990 Distance: 167 Quadrant Reference: A13 Quadrant Reference: NE Bearing Ref: N Cavity Type: Solution Pipe Solid Geology Detail: Chalk Group, Lambeth Group Superficial Geology No Details Detail:	A13NE (N)	167	5	470970 172990

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Natural Cavities Easting: 471140 Northing: 172730 Distance: 173 Quadrant Reference: A13 Quadrant Reference: SE Bearing Ref: E Cavity Type: Solution Pipe Solid Geology Detail: Chalk Group, Lambeth Group Superficial Geology No Details Detail:	A13SE (E)	173	5	471140 172730
	Natural Cavities Easting: 470990 Northing: 173010 Distance: 189 Quadrant Reference: A13 Quadrant Reference: NE Bearing Ref: N Cavity Type: Solution Widened Joint or Fissure x 1 Solid Geology Detail: Chalk Group, Lambeth Group Superficial Geology No Details Detail:	A13NE (N)	189	5	470990 173010
	Natural Cavities Easting: 471000 Northing: 173010 Distance: 191 Quadrant Reference: A13 Quadrant Reference: NE Bearing Ref: N Cavity Type: Solution Widened Joint or Fissure x 1 Solid Geology Detail: Chalk Group, Lambeth Group Superficial Geology No Details Detail:	A13NE (N)	191	5	471000 173010
	Natural Cavities Easting: 471000 Northing: 173010 Distance: 191 Quadrant Reference: A13 Quadrant Reference: NE Bearing Ref: N Cavity Type: Solution Widened Joint or Fissure x 1 Solid Geology Detail: Chalk Group, Lambeth Group Superficial Geology No Details Detail:	A13NE (N)	191	5	471000 173010
	Natural Cavities Easting: 471000 Northing: 173010 Distance: 191 Quadrant Reference: A13 Quadrant Reference: NE Bearing Ref: N Cavity Type: Solution Widened Joint or Fissure x 1 Solid Geology Detail: Chalk Group, Lambeth Group Superficial Geology No Details Detail:	A13NE (N)	191	5	471000 173010
	Natural Cavities Easting: 471150 Northing: 172850 Distance: 191 Quadrant Reference: A13 Quadrant Reference: NE Bearing Ref: E Cavity Type: Solution Widened Joint or Fissure x 1 Solid Geology Detail: Chalk Group Superficial Geology No Details Detail:	A13NE (E)	191	5	471150 172850
	Natural Cavities Easting: 471010 Northing: 173010 Distance: 194 Quadrant Reference: A13 Quadrant Reference: NE Bearing Ref: N Cavity Type: Solution Widened Joint or Fissure x 1 Solid Geology Detail: Chalk Group, Lambeth Group Superficial Geology No Details Detail:	A13NE (N)	194	5	471010 173010

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Natural Cavities Easting: 471010 Northing: 173010 Distance: 194 Quadrant Reference: A13 Quadrant Reference: NE Bearing Ref: N Cavity Type: Solution Widened Joint or Fissure x 1 Solid Geology Detail: Chalk Group, Lambeth Group Superficial Geology No Details Detail:	A13NE (N)	194	5	471010 173010
	Natural Cavities Easting: 471020 Northing: 173010 Distance: 197 Quadrant Reference: A13 Quadrant Reference: NE Bearing Ref: N Cavity Type: Solution Pipe Solid Geology Detail: Chalk Group, Lambeth Group Superficial Geology No Details Detail:	A13NE (N)	197	5	471020 173010
	Natural Cavities Easting: 471040 Northing: 173010 Distance: 205 Quadrant Reference: A13 Quadrant Reference: NE Bearing Ref: NE Cavity Type: Solution Pipe Solid Geology Detail: Chalk Group, Lambeth Group Superficial Geology No Details Detail:	A13NE (NE)	205	5	471040 173010
	Natural Cavities Easting: 471060 Northing: 173010 Distance: 214 Quadrant Reference: A13 Quadrant Reference: NE Bearing Ref: NE Cavity Type: Solution Widened Joint or Fissure x 1 Solid Geology Detail: Chalk Group, Lambeth Group Superficial Geology No Details Detail:	A13NE (NE)	214	5	471060 173010
	Natural Cavities Easting: 470990 Northing: 173040 Distance: 219 Quadrant Reference: A13 Quadrant Reference: NE Bearing Ref: N Cavity Type: Solution Pipe Solid Geology Detail: Chalk Group, Lambeth Group Superficial Geology No Details Detail:	A13NE (N)	219	5	470990 173040
	Natural Cavities Easting: 470920 Northing: 173050 Distance: 228 Quadrant Reference: A13 Quadrant Reference: NW Bearing Ref: N Cavity Type: Solution Pipe Solid Geology Detail: Chalk Group, Lambeth Group Superficial Geology No Details Detail:	A13NW (N)	228	5	470920 173050
	Natural Cavities Easting: 470980 Northing: 173060 Distance: 237 Quadrant Reference: A13 Quadrant Reference: NE Bearing Ref: N Cavity Type: Solution Pipe Solid Geology Detail: Chalk Group, Lambeth Group Superficial Geology No Details Detail:	A13NE (N)	237	5	470980 173060

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Natural Cavities Easting: 471010 Northing: 173200 Distance: 380 Quadrant Reference: A18 Quadrant Reference: SE Bearing Ref: N Cavity Type: Solution Widened Joint or Fissure x 3 Solid Geology Detail: Chalk Group, Lambeth Group Superficial Geology No Details Detail:	A18SE (N)	380	5	471010 173200
	Natural Cavities Easting: 470490 Northing: 172690 Distance: 436 Quadrant Reference: A12 Quadrant Reference: SE Bearing Ref: W Cavity Type: Solution Pipe Solid Geology Detail: Chalk Group, Lambeth Group Superficial Geology Lynch Hill Gravel Detail:	A12SE (W)	436	5	470490 172690
	Natural Cavities Easting: 470500 Northing: 172500 Distance: 493 Quadrant Reference: A12 Quadrant Reference: SE Bearing Ref: SW Cavity Type: Sinkhole x 1 Solid Geology Detail: Chalk Group, Lambeth Group Superficial Geology Lynch Hill Gravel Detail:	A12SE (SW)	493	5	470500 172500
	Natural Cavities Easting: 470380 Northing: 172990 Distance: 564 Quadrant Reference: A12 Quadrant Reference: NE Bearing Ref: W Cavity Type: Solution Pipe Solid Geology Detail: Chalk Group, Lambeth Group Superficial Geology Lynch Hill Gravel Detail:	A12NE (W)	564	5	470380 172990
	Natural Cavities Easting: 470370 Northing: 173000 Distance: 577 Quadrant Reference: A12 Quadrant Reference: NE Bearing Ref: W Cavity Type: Solution Pipe x 2 Solid Geology Detail: Chalk Group, Lambeth Group Superficial Geology Lynch Hill Gravel Detail:	A12NE (W)	577	5	470370 173000
	Natural Cavities Easting: 471400 Northing: 173200 Distance: 584 Quadrant Reference: A19 Quadrant Reference: SW Bearing Ref: NE Cavity Type: Solution Pipe x 2 Solid Geology Detail: Chalk Group Superficial Geology Taplow Gravel Detail:	A19SW (NE)	584	5	471400 173200
	Natural Cavities Easting: 471100 Northing: 173400 Distance: 594 Quadrant Reference: A18 Quadrant Reference: SE Bearing Ref: N Cavity Type: Solution Pipe x 3 Solid Geology Detail: Chalk Group Superficial Geology Taplow Gravel Detail:	A18SE (N)	594	5	471100 173400

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Natural Cavities Easting: 471600 Northing: 172800 Distance: 631 Quadrant Reference: A14 Quadrant Reference: NW Bearing Ref: E Cavity Type: Unknown Solid Geology Detail: Chalk Group, Lambeth Group Superficial Geology No Details Detail:	A14NW (E)	631	5	471600 172800
	Natural Cavities Easting: 471500 Northing: 173300 Distance: 725 Quadrant Reference: A19 Quadrant Reference: SW Bearing Ref: NE Cavity Type: Solution Pipe Solid Geology Detail: Chalk Group Superficial Geology Taplow Gravel Detail:	A19SW (NE)	725	5	471500 173300
	Natural Cavities Easting: 470250 Northing: 173160 Distance: 752 Quadrant Reference: A17 Quadrant Reference: SW Bearing Ref: NW Cavity Type: Solution Pipe Solid Geology Detail: Chalk Group, Lambeth Group Superficial Geology No Details Detail:	A17SW (NW)	752	5	470250 173160
	Natural Cavities Easting: 470240 Northing: 173150 Distance: 757 Quadrant Reference: A17 Quadrant Reference: SW Bearing Ref: NW Cavity Type: Solution Pipe Solid Geology Detail: Chalk Group, Lambeth Group Superficial Geology Lynch Hill Gravel Detail:	A17SW (NW)	757	5	470240 173150
	Natural Cavities Easting: 470240 Northing: 173160 Distance: 761 Quadrant Reference: A17 Quadrant Reference: SW Bearing Ref: NW Cavity Type: Solution Pipe Solid Geology Detail: Chalk Group, Lambeth Group Superficial Geology Lynch Hill Gravel Detail:	A17SW (NW)	761	5	470240 173160
	Natural Cavities Easting: 471500 Northing: 173400 Distance: 794 Quadrant Reference: A19 Quadrant Reference: SW Bearing Ref: NE Cavity Type: Solution Pipe x 3 Solid Geology Detail: Chalk Group Superficial Geology Taplow Gravel Detail:	A19SW (NE)	794	5	471500 173400
	Natural Cavities Easting: 470130 Northing: 172540 Distance: 820 Quadrant Reference: A12 Quadrant Reference: SW Bearing Ref: W Cavity Type: Sinkhole x 1, Solution Pipe x 1 Solid Geology Detail: Chalk Group, Lambeth Group Superficial Geology Lynch Hill Gravel Detail:	A12SW (W)	820	5	470130 172540

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Natural Cavities Easting: 471550 Northing: 173400 Distance: 829 Quadrant Reference: A19 Quadrant Reference: SW Bearing Ref: NE Cavity Type: Solution Pipe x 5 Solid Geology Detail: Chalk Group Superficial Geology Taplow Gravel Detail:	A19SW (NE)	829	5	471550 173400
	Natural Cavities Easting: 470000 Northing: 172700 Distance: 918 Quadrant Reference: A12 Quadrant Reference: SW Bearing Ref: W Cavity Type: Solution Pipe Solid Geology Detail: Chalk Group, Lambeth Group Superficial Geology Lynch Hill Gravel Detail:	A12SW (W)	918	5	470000 172700
	Natural Cavities Easting: 470000 Northing: 173010 Distance: 936 Quadrant Reference: A12 Quadrant Reference: NW Bearing Ref: W Cavity Type: Solution Widened Joint or Fissure x 1 Solid Geology Detail: Chalk Group, Lambeth Group Superficial Geology No Details Detail:	A12NW (W)	936	5	470000 173010
	Natural Cavities Easting: 469980 Northing: 172610 Distance: 952 Quadrant Reference: A12 Quadrant Reference: SW Bearing Ref: W Cavity Type: Sinkhole x 1, Solution Pipe x 1 Solid Geology Detail: Chalk Group, Lambeth Group Superficial Geology Lynch Hill Gravel Detail:	A12SW (W)	952	5	469980 172610
	Natural Cavities Easting: 469950 Northing: 172820 Distance: 963 Quadrant Reference: A12 Quadrant Reference: NW Bearing Ref: W Cavity Type: Sinkhole x 1, Solution Pipe x 1 Solid Geology Detail: Chalk Group, Lambeth Group Superficial Geology Lynch Hill Gravel Detail:	A12NW (W)	963	5	469950 172820
	Non Coal Mining Areas of Great Britain Risk: Highly Likely Source: British Geological Survey, National Geoscience Information Service	A13SE (E)	0	4	470951 172789
	Non Coal Mining Areas of Great Britain Risk: Likely Source: British Geological Survey, National Geoscience Information Service	A13SE (SW)	0	4	470942 172787
	Non Coal Mining Areas of Great Britain Risk: Unlikely Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	10	4	470903 172778
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	60	4	470875 172850
	Non Coal Mining Areas of Great Britain Risk: Highly Likely Source: British Geological Survey, National Geoscience Information Service	A13NE (N)	74	4	470972 172896
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	127	4	471041 172656