



Phase 1: Desk Study  
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# PHASE 1 DESK STUDY


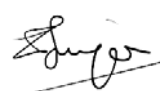

## 51 SUNDERLAND ROAD, CLEADON

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### APPENDICES

- Appendix A - Drawings and Photographs
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- Appendix C - Envirocheck Report
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Revision	Date	Prepared By	Signed
Final	November 2015	M Atkins <i>Geotechnical Engineer</i>	
		Checked By	
		D Simpson <i>Principal Geotechnical Engineer</i>	
		Approved By	
		D Simpson <i>Principal Geotechnical Engineer</i>	

## 1 EXECUTIVE SUMMARY

<b>Site Address</b>	51 Sunderland Road, Cleadon, Sunderland, Tyne & Wear, SR6 7UW.
<b>Site Description</b>	The desk study area comprises a single storey brick built summer house and garage to the north east of the site. A bungalow is located to the western boundary. The north and south of the site is primarily garden areas with a tarmac driveway running along the eastern boundary. It is noted several mature trees are located on and surrounding the site. The topography of the site is level.
<b>Site History</b> <i>On Site</i>	The earliest maps showed that the site is located within an agricultural area. A building was constructed along with two additional structure by the late 1930's with a small structure developing to the north west by the 1950's.
<i>Offsite</i>	From the earliest mapping the land usage around the site is primarily agricultural land. The land within a 500m radius of the site has undergone small developments until this time.
<b>Proposed End Use</b>	The proposed development is outlined to be a single residential property.
<b>Environmental Setting</b> <i>Landfill &amp; Waste</i>	The Envirocheck report indicates that there is one Historical Landfill Site entry located 570m south west of the site at Moor Lane, Boldon.
<i>Regulated Industries</i>	The nearest active Contemporary Trade Directory entry is located 730m north of the site at Allison Heating Ltd.  There is one Fuel Station entry located 688m north west of the site at Cleadon Service Station.
<i>Geology</i>	The solid geology beneath the site is likely to comprise Upper Magnesian Limestone of the Permian Age (Limestone) with the drift deposits on site are likely to comprise Clay of the Pelaw Clay Member. The Hebburn Dyke is noted approximately 50m north of the site.
<i>Mining</i>	The mining report highlights that the site is situated in an area where four seams have been worked within the likely zone of physical influence on the surface at a depth of 310m to 450m and last worked in 1978.
<i>Hydrogeology</i>	Using the Environment Agency's Policy and Practice for the Protection of Groundwater the solid geology beneath the site is classified as a <b>Principal Aquifer</b> . The overlying drift is classified as an <b>Unproductive Strata</b> .  The site does not lie within a Source Protection Zone.  There are no Ground Water Abstractions located within 1km of the site.
<i>Hydrology</i>	The nearest surface water feature is located 173m north east of the site.
<i>Flooding</i>	The Envirocheck states that the site is not situated within a zone affected by historical records of Flooding or Extreme Flooding from Rivers and Sea without Defences.
<i>Radon Gas</i>	The site is not in a Radon Affected Area, as less than 1% of properties are above the Action Level. No radon protection measures are necessary for new buildings on the site.
<b>Preliminary Geotechnical Assessment</b>	Given the expected ground conditions noted above, the use of traditional strip or pad footings for the new structures will be dependent on the depth of made ground proven across the site. Where loose made ground or soft/loose natural deposits are encountered, foundations will need to be taken through the made ground/disturbed ground into underlying natural strata of adequate bearing capacity.
<b>Preliminary Contamination Assessment</b>	The desk study has shown that the site is unlikely to have been exposed to anything other than minimal contamination, with construction/demolition waste the most likely source local to the surrounding structures.
<b>Potential Sources of Ground Gas</b>	Minimal made ground is expected on site, therefore ground gas assessment is not recommended.
<b>Phase Two Recommendations</b>	<ul style="list-style-type: none"> <li>• A series of small percussive boreholes with insitu testing and samples.</li> <li>• Geotechnical testing.</li> </ul>

## 2 INTRODUCTION AND SCOPE OF INVESTIGATION

Solmek were instructed by Mr David Butler to undertake a desk study on a parcel of land at 51 Sunderland Road, Cleadon. The proposed development is outlined to be the construction of a single residential property.

The following steps may be required in the investigation and remediation of potentially contaminated land:

- Phase 1: Desk Study
- Phase 2: Intrusive Investigation
- Phase 3: Remediation Statement
- Phase 4: Validation Reports

Phases 1 and 2 are generally required in the redevelopment of most sites. Phases 3 and 4 are subject to the findings of the initial stages. This report represents Phase 1 of the site investigation.

The purpose of this Phase 1 Desk Study is to evaluate likely ground conditions and significant environmental issues at the site, and to plan the scope of subsequent phases of investigation.

This report may be regarded as a Preliminary Risk Assessment in accordance with the Environment Agency's guidance document *Model Procedures for the Management of Land Contamination* (CLR 11, 2004).

This Phase 1 Desk Study has been undertaken with due regard to current contaminated land guidance issued by the Royal Institution of Chartered Surveyors (RICS) together with BS 10175: 2001, "*Code of Practice for the Investigation of Potentially Contaminated Land*" and relevant sections of BS 5930: 1999, "*Code of Practice for Site Investigations*".

The objectives of the investigation are as follows:

- To determine the land use history of the site from an inspection of available Historical Maps
- To determine the environmental setting of the site from available sources
- To determine whether past mining may have had an influence on the site
- To determine whether the site has previously been used for purposes that may have given rise to significant ground contamination
- To provide recommendations for further investigation.

## 3 SITE WALKOVER AND DESCRIPTION

### 3.1 General

The centre of the site is located at OS Grid Ref 438840, 561860 and covers an area of approximately 0.25Ha. The area is located at 51 Sunderland Road, Cleadon, Sunderland, Tyne & Wear.

The preliminary site inspection was undertaken on the 10<sup>th</sup> November 2015 and site photographs are presented in Appendix A.

### 3.2 On Site Features

The desk study area is located on a parcel of land attached to 51 Sunderland Road, Cleadon. It currently consists of a single storey brick built summer house and garage to the north east of the site. A bungalow is located to the western boundary. The north and south of the site is primarily garden areas with a tarmac driveway running along the eastern boundary.

The north and western boundary is marked by a wooden fence with the east boundary comprising of shrub, mature trees and small fence. The southern boundary is marked by Sunderland Road.

No obvious signs of surface contamination were noted at the time of the walkover, however, a number of services were located on and surrounding the site including drainage, overhead cables and manhole covers.

Mature trees of various species were located toward the northern and eastern boundaries of the site.

### 3.3 Off Site Features

The surrounding area of the site is comprised of predominately of agricultural and residential properties.

## 4 SITE HISTORY

### 4.1 Map Descriptions

In order to determine the history of the site, previous editions of Historical Maps and Ordnance Survey Plans were inspected. The Historical Maps are presented in Appendix B.

Table 1 presents a summary of the history of the area which includes plots from 1862 to 2015. The summary focuses on the historical land uses and changes relevant to the site and the proposed end use. Measurements to features of note are taken from the nearest boundary of the site and all distances quoted are approximate.

**TABLE 1: SUMMARY OF SITE HISTORY**

OS Map Edition	On-site Features	Off-site Features
<b>1862</b> <b>1:10,560</b>	The site appears undeveloped located within agricultural land.	The surrounding area of the site is shown to be predominantly agricultural land with Sunderland Road running along the south western boundary of the site. The village of Cleadon is located approximately 600m north west of the site.
<b>1898</b> <b>1:10,560</b>	No apparent change.	No significant change.
<b>1919</b> <b>1:2,500</b>	A tree line is shown around the site boundary.	A building has been constructed 25m north of site and 70m north west of the site. Residential housing has been constructed 210m north west of the site with further housing located 300m south west of the site.
<b>1921</b> <b>1:10,560</b>	No apparent change.	No significant change.
<b>1938</b> <b>1:10,560</b>	No apparent change.	Additional housing has been constructed 150m north west of the site.
<b>1939</b> <b>1:2,500</b>	A building has been constructed on the north west boundary of the site with two small additional structures to the north east of the site.	Three structures located 200m north east of the site.
<b>1951</b> <b>1:10,000</b>	No apparent change.	No significant change.
<b>1958</b> <b>1:1,250</b>	Very small structures shown to the northern area of the site.	Additional buildings constructed 50m north and 250m north west of the site.
<b>1966-1968</b> <b>1:10,000</b>	No apparent change.	No significant change.
<b>1984-1987</b> <b>1:10,000</b>	No apparent change.	Additional structured construed 100m north of the site.
<b>2006</b> <b>1:10,000</b>	No apparent change.	A residential property has been constructed immediately north of the site.
<b>2015</b> <b>1:10,000</b>	No apparent change.	No significant change.

### 4.2 Potential contamination sources identified via historical plans

Contamination from historical land uses within a 250m radius of the site have been identified:

**Made ground** from materials used to infill depressions and form a level area for access or building. This may include brick, concrete, timber, ash, slag, coal and metals.

**Construction/demolition waste** from construction and demolition immediately around the site over the documented history. This may include brick, concrete, timber, asbestos and metals.

## **5 ENVIRONMENTAL SETTING**

### **5.1 Information Sources**

The environmental setting of the site was determined through reference to the following:

- Envirocheck Report (including historical map extracts)
- British Geological Survey (BGS) 1:50,000 scale sheet No 21 Sunderland solid and drift
- BRE Publication BR211 Radon: Guidance on Protective Measures for New Dwellings

### **5.2 Landfill and Waste**

The Envirocheck report indicates that there is one Historical Landfill Site entry located 570m south west of the site at Moor Lane, Boldon.

The Envirocheck report indicated there are no other landfills or sites dealing with waste located within 1km of the site.

### **5.3 Regulated Industries**

The Envirocheck report indicates that there are eight Contemporary Trade Directory entries located within 1km of the site. The nearest active entry is located 730m north of the site at Allison Heating Ltd for boilers – servicing, replacements and repairs.

The Envirocheck report indicates that there is one Fuel Station entry located 688m north west of the site at Cleadon Service Station under the brand Jet and is currently open.

The Envirocheck report indicates that there is one Local Authority Pollution Prevention and Control entry located 688m north west of the site at Cleadon Service Station.

### **5.4 Geology**

The solid geology beneath the site is likely to comprise Upper Magnesian Limestone of the Permian Age (Limestone) with the drift deposits on site are likely to comprise Clay of the Pelaw Clay Member.

The Hebburn Dyke is noted approximately 50m north of the site.

The Cleadon Fault is noted 200m north and 670m south east of the site with a downthrow to the south.

### **5.5 Mining & Quarrying**

A coal mining report was required to assess the risks posed by historic and possible future developments associated with coal mining. A coal mining search report for the site from The Coal Authority dated, 6<sup>th</sup> November 2015 is presented in Appendix D.

The mining report highlights that the site is situated in an area where four seams have been worked within the likely zone of physical influence on the surface at a depth of 310m to 450m and last worked in 1978. Any ground movement from these coal seams should have stopped by now.

The report states there are no known coal mine entries within, or within 20m of, the boundary of the property.

The report highlights that the site is not situated within the boundary of a former opencast coal mining site. Neither is the site located within 200m of a currently operating opencast coal mine or 800m of a future opencast coal mine.

It should be noted that the site is not located within a High Risk Development Area.

The Envirocheck report indicates that there are four BGS Recorded Mineral Site entries located within 1km of the site. The nearest is located 723m south west of the site at Moor Lane Brick Works for extraction of common clay and shale using opencast methods, however, operations have since ceased.

## 5.6 Geological Hazards and Instability

The Envirocheck report presents the maximum hazard ratings of ground stability hazards located on site as follows:

- Very low hazard is posed by Collapsible Deposits, Ground Dissolution of Soluble Rocks and Landslides
- Low hazard is posed by Shrinking or Swelling Clay
- Negligible hazard is posed by Compressible Deposits and Running Sand

## 5.7 Hydrogeology

Using the Environment Agency's Policy and Practice for the Protection of Groundwater the solid geology beneath the site is classified as a **Principal Aquifer** with the overlying drift is classified as an Unproductive Strata.

The site does not lie within a **Source Protection Zone**.

The Envirocheck report states there are no Ground Water Abstraction entries located within 1km of the site.

## 5.8 Hydrology

The nearest surface water feature is located 173m north east of the site.

The Envirocheck report indicates that there is one Discharge Consent entries located 702m east of the site at Westhall Campsite for a sewage disposal works.

The Envirocheck report states there are no Surface Water Abstraction entries located within 1km of the site.

## 5.9 Flooding

The Envirocheck states that the site is not situated within a zone affected by historical records of Flooding or Extreme Flooding from Rivers and Sea without Defences.

The Envirocheck report indicates that there are no flood defences or areas benefiting from flood defences within 1km of the site.

## 5.10 Sensitive Land Use

The site is located within 2km of an Area of Adopted Green Belt. This is located at its nearest point 1m south east of the site.

The site is located within 2km of a Record of a Local Nature Reserve. This is identified as Cleadon Hills and located at its nearest point 966m north of the site.

The site is located within 2km of a Site of Special Scientific Interest. This is identified as Boldon Pastures and located at its nearest point 705m west of the site.

## 5.11 Radon Gas

The site is not in a Radon Affected Area, as less than 1% of properties are above the Action Level.

In accordance with the procedure described in BRE Publication BR211 Radon: Guidance on Protective Measures for New Dwellings, no radon protection measures are necessary for new buildings or extensions on the site.

## **6 CONCEPTUAL SITE MODEL**

### **6.1 General**

Based on the information presented in the preceding Sections, and in accordance with the CLR11 guidance noted in Section 1, a Preliminary Conceptual Site Model has been produced.

The main features of the model are discussed in the following sections together with preliminary recommendations where appropriate.

### **6.2 Likely Ground Conditions**

It is expected that, based on available information, ground conditions are likely to be made ground comprising of hardstanding, construction/demolition waste and topsoils. Made ground likely to be deepest around the existing buildings. The drift deposits on site are shown to likely comprise of clay deposits overlying a limestone bedrock.

### **6.3 Potential Buried Obstructions**

Based on the site history the likelihood of buried obstructions is expected to be minimal, however, natural boulders maybe encountered within the clay deposits.

### **6.4 Mining Assessment**

The site is within a Coal Mining Reporting Area as defined by the Coal Authority.

The general guidance and good practice for assessing if a seam is within influencing distance to the surface is if rock cover (not including made ground and drift) is greater than 10x the worked thickness of the coal seam, then generally no void migration will reach the interface of the rock and drift deposits/made ground and thus no instability via a crown hole tyre collapse will occur.

The mining report highlights that the site is situated in an area where four seams have been worked within the likely zone of physical influence on the surface at a depth of 310m to 450m and last worked in 1978. Any ground movement from these coal seams should have stopped by now.

The mining report does not state any possible shallow worked seams, therefore it is unlikely the proposed development will be affected by past worked coal seams.

### **6.5 Preliminary Geotechnical Assessment**

Given the expected ground conditions noted above, the use of traditional strip or pad footings for the new structures will be dependent on the depth of made ground proven across the site. Where loose made ground or soft/loose natural deposits are encountered, foundations will need to be taken through the made ground/disturbed ground into underlying natural strata of adequate bearing capacity.

### **6.6 Preliminary Contamination Assessment**

The desk study has shown that the site is unlikely to have been exposed to anything other than minimal contamination.

In view of the current and future site use, chemical contamination testing is considered unnecessary.

It should be noted that the above potential contaminants are considered to be commonly associated with the specified past land uses of the site, and adjacent land use. Risk assessment should be undertaken for contamination identified during intrusive investigation.

Potential pathways which link the potential contaminants to end users of the site and controlled waters (receptors) include the following:

- Ingestion of soil (outdoors) / dust (indoors)
- Skin contact with soil (outdoors) / dust (indoors)



- Inhalation of dust (outdoors and indoors)
- Contamination via buried water pipes
- Surface water run-off, including via existing drainage infrastructure
- Downward infiltration of leachable contaminants to groundwater

## 6.7 Potential Sources of Ground Gas

Ground gases such as carbon dioxide and methane can be classed as a form of contamination. Potential sources of ground gases include:

- Made Ground
- Quarries, Infilled Clay Pits & Infilled Ponds
- Underlying Natural Strata (alluvium, peat and chalk)
- Petrol re-fuelling sites (which also includes Volatile Organic Compounds)
- Landfill (on and off-site)
- Coal measures

Based on historical map evidence and consideration of the sites environmental setting the table below shows a preliminary comparison of *consequence* against *probability* where ground gas is considered a potential threat to human health.

**TABLE 2: POTENTIAL GROUND GAS POLLUTION LINKAGES**

Potential Sources	Potential Pathway	Receptor
Made ground (CO <sub>2</sub> , CO and CH <sub>4</sub> ).	Ingress and Accumulation into buildings from vertical and horizontal migration	Future users of site are likely to include adults and children. Construction workers (in particular utility workers).
<b>Preliminary Comparison of Consequence verses Probability</b>		
	Classification	Justification
Probability	LOW	Ground gas from made ground.
<i>(Based on Table 8.1, CIRIA C665, 2007)</i>		No landfills located within 500m radius of the site.
		No shallow coal seams.
Consequence	MILD	Construction of a residential house.
<i>(Based on Table 8.2, CIRIA C665, 2007)</i>		
	Risk	Details
Consequence vs. Probability	LOW RISK	
<i>(Based on Table 8.3, CIRIA C665, 2007)</i>		It is possible that harm could arise to a designated receptor from an identified hazard, but it is likely that this harm, if realised, would at worst normally be mild.

## 6.8 Risk Assessment for Contaminated Land

As part of this Phase 1 Desk Study, a preliminary conceptual model and risk assessment is produced. This assessment should be revised following the Phase 2 Site Investigation outlining a qualitative risk assessment. Should there be unacceptable risks to the various receptors/end-users following the Phase 2 works, then a remediation strategy may be required to outline measures to satisfy Part 2A of the Environmental Protection Act (1990). The above measures are inline with CLR11 – Model Procedures.

The results of the chemical contamination testing as part of the Phase 2 investigation should be compared to the current Land Quality Management (LQM) – Suitable 4 Use Levels (S4UL) December 2014.

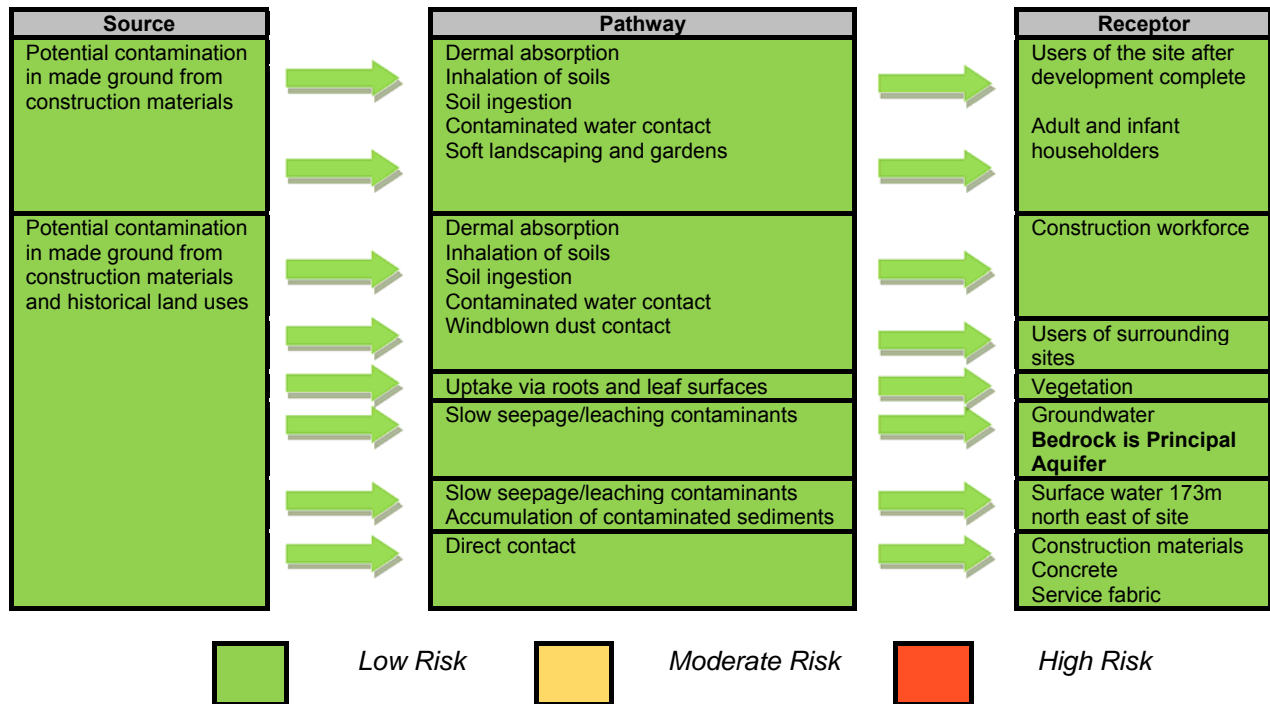
## 6.9 Conceptual Site Model

The conceptual model collates the salient aspects of the site to form a model which should enable

comparison after fieldwork and testing. This model identifies the potential pollution linkages that may influence the proposed development and geotechnical considerations.

The risk ratings are based on the current potential liabilities and likely potential future liabilities. The risks posed by the geotechnical and contamination aspects of the site will be revised following site works, and any mitigating action required added.

**TABLE 3: PRELIMINARY CONCEPTUAL MODEL**



**7 PROPOSED PHASE TWO INTRUSIVE WORKS**

A Phase 2 Site Investigation should be undertaken to verify the assumptions made in the Preliminary Conceptual Site Model and to provide data for foundation design.

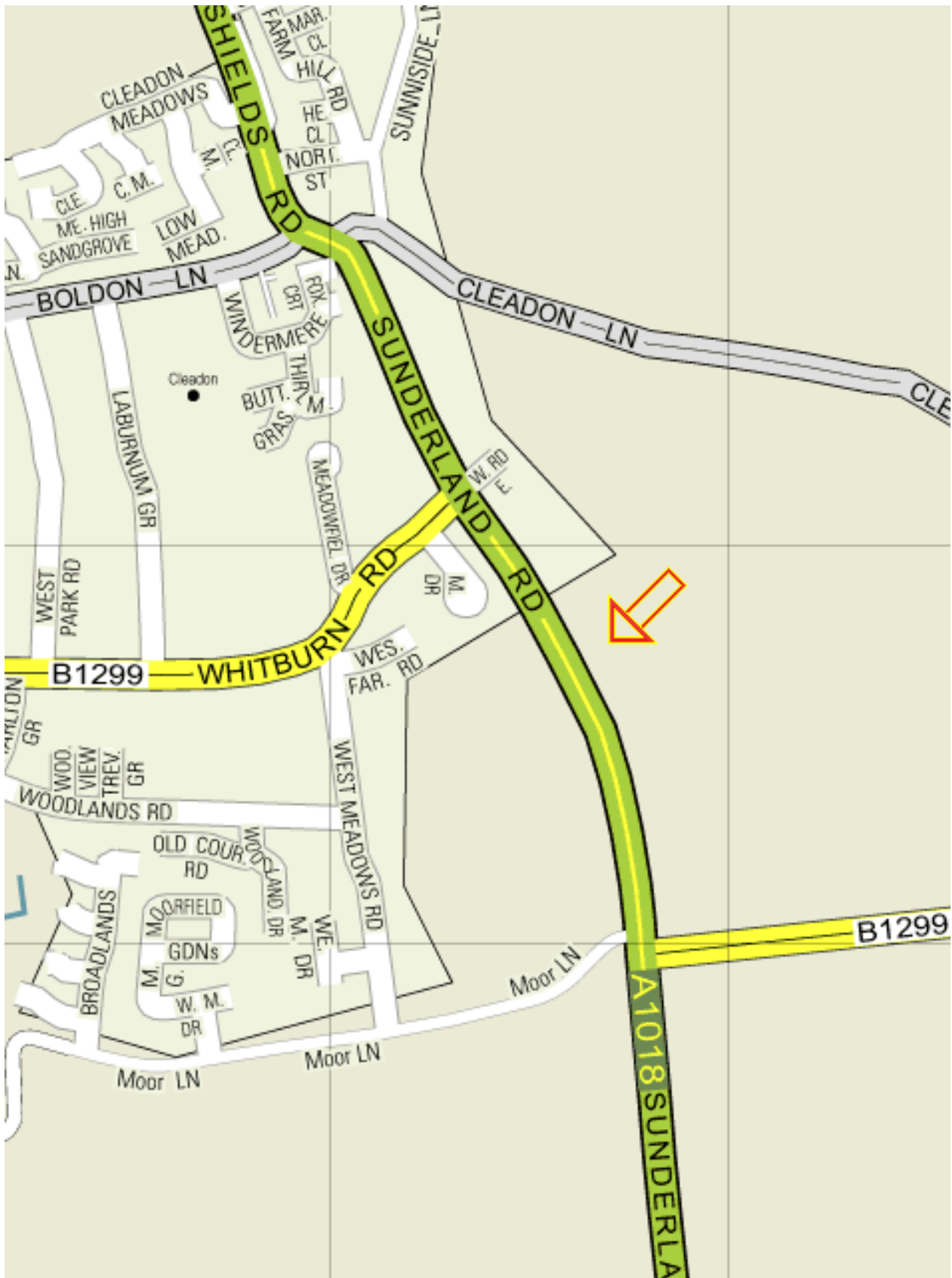
An outline ground investigation strategy is summarised below, based on the preliminary conceptual site model and information obtained during the desk study.

**TABLE 2: SITE INVESTIGATION RECOMMENDATIONS**

Proposed method of investigation	Purpose	Comments
Hand dug trial pits	Hand dug trial pits to 1.2m to ensure positions are clear of underground services.	To be undertaken prior to the drilling of all boreholes.
A series of small percussive boreholes to 6mbgl	To determine shallow ground conditions. To collect soil samples for geotechnical and chemical testing. To observe soils profile, localised variations in materials and presence of groundwater.	Ensure positions are CAT scanned and service plans inspected prior to excavation. Hand vanes to be taken in cohesive deposits. SPT samples in granular strata and rock head. Disturbed and jar samples to be undertaken for chemical testing.
Geotechnical Testing	To confirm material properties. To provide concrete classification of materials.	Tests may include sulphate and pH, moisture content, atterberg tests, triaxial and particle size distribution tests. Further tests may be required depending on the materials encountered.

**Appendix A**  
**Drawings & Photographs**

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Client:	51 Sunderland Road, Cleadon
Project:	Mr David Butler
Title:	Site Location Plan
DRG No:	Figure 1
Date:	November 2015



Client: 51 Sunderland Road, Cleadon

Project: Mr David Butler

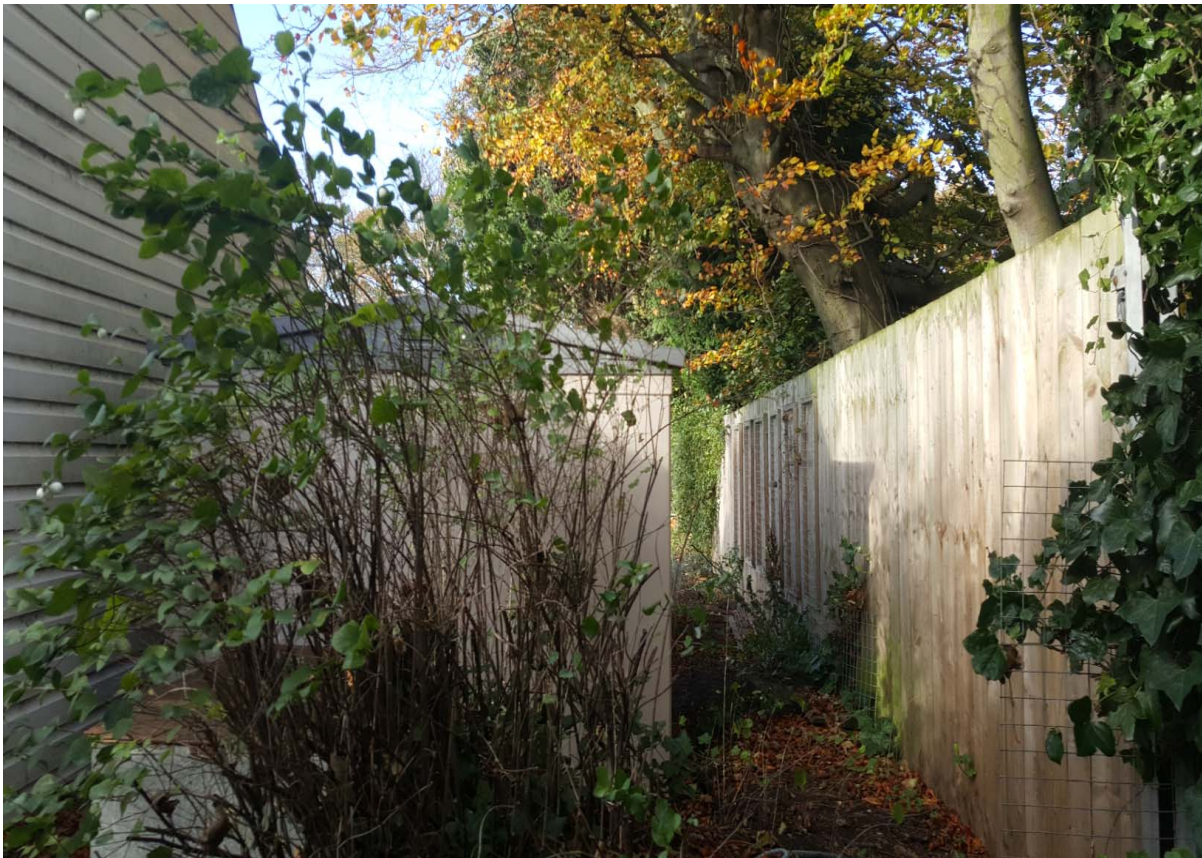
Title: Site Specific Location Plan

DRG No: Figure 2

Date: November 2015



**Plate 1: View looking south east from the north west of the site.**



**Plate 2: View looking north west from the north east of the site.**

Client:	51 Sunderland Road, Cleadon
Project:	Mr David Butler
Title:	Plates 1 & 2
DRG No:	Figure 3
Date	November 2015



**Plate 3: View looking south from the north east.**



**Plate 4: View looking north from the south of the site.**

Client:	51 Sunderland Road, Cleadon
Project:	Mr David Butler
Title:	Plates 3 & 4
DRG No:	Figure 4
Date	November 2015

## **Appendix B Historical Maps**



Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Durham	1:2,500	1873	2
Durham	1:2,500	1886	3
Durham	1:2,500	1819	4
Durham	1:2,500	1839	5
Ordnance Survey Plan	1:1,250	1958	6
Ordnance Survey Plan	1:2,500	1958-1959	7
Ordnance Survey Plan	1:1,250	1863-1975	8
Ordnance Survey Plan	1:2,500	1967-1968	9
Additional SIMs	1:2,500	1974	10
Supply of Unpublished Survey Information	1:1,250	1974	11
Supply of Unpublished Survey Information	1:1,250	1974	12
Ordnance Survey Plan	1:1,250	1977-1982	13
Additional SIMs	1:2,500	1977	14
Large-Scale National Grid Data	1:1,250	1978-1990	15
Large-Scale National Grid Data	1:2,500	1993	16
Large-Scale National Grid Data	1:1,250	1998	18

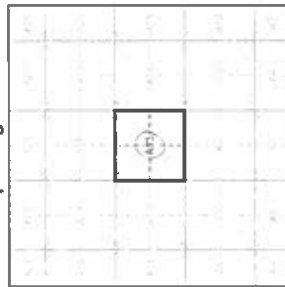
## Historical Mapping Legends

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


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


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


### Historical Map - Segment A13



**Order Details**  
 Order Number: 74673377\_1\_1  
 Customer Ref: S151122  
 National Grid Reference: 438840, 561860  
 Slice: A  
 Site Area (Ha): 0.25  
 Search Buffer (m): 100

**Site Details**  
 51 Sunderland Road, Cleasdon Village, SUNDERLAND, SR6 7UW



Tel: 0144 844 8952  
 Fax: 0144 844 9951  
 Web: www.envirocheck.co.uk

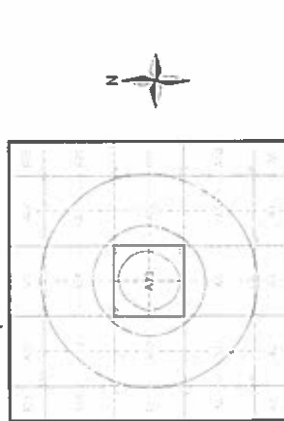
Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Durham	1:10,560	1862	3
Durham	1:10,560	1899	4
Durham	1:10,560	1921	5
Durham	1:10,560	1928	6
Durham	1:10,560	1951	7
Ordnance Survey Plan	1:10,000	1950 - 1968	8
Ordnance Survey Plan	1:10,000	1969	9
Ordnance Survey Plan	1:10,000	1975	10
Ordnance Survey Plan	1:10,000	1977	11
Newcastle-upon-Tyne	1:25,000	1977	12
Ordnance Survey Plan	1:10,000	1944 - 1987	13
10K Raster Mapping	1:10,000	2006	14
VectorMap Local	1:10,000	2015	15

## 1:10,000 Raster Mapping

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

## Historical Map - Slice A



## Order Details

Order Number: 74673377\_1-1  
 Customer Ref: S151122  
 National Grid Reference: 438840, 561860

Slice: A  
 Site Area (Ha): 0.25  
 Search Buffer (m): 1000

## Site Details

51 Sunderland Road, Cleadon Village, SUNDERLAND, SR6 7UW



Tel: 0844 844 8952  
 Fax: 0844 844 8951  
 www.envirocheck.co.uk

## Historical Mapping Legends

### Ordnance Survey County Series 1:10,560

Gravel Pit	Quarry	Osiers	Mixed Wood	Fir	Arrow denotes flow of water	Site of Antiquities	Pump, Guide Post, Signal Post	Surface Level	Sketched Contour	Main Roads	Minor Roads	Sunken Road	Road over Railway	Railway over Road	Road over River or Canal	Road over Stream	County Boundary (Geographical)	County & Civil Parish Boundary	Administrative County & Civil Parish Boundary	County Borough Boundary (England)	County Borough Boundary (Scotland)	Rural District Boundary	Civil Parish Boundary						
Chalk Pit, Clay Pit or Quarry	Sand Pit	Refuse or Slag Heap	Dunes	Coniferous Trees	Orchard	Bracken	Marsh	Building	Glasshouse	Sloping Masonry	Electricity Transmission Line	Standard Gauge Multiple Track	Standard Gauge Single Track	Siding, Tramway or Mineral Line	Narrow Gauge	Geographical County	Administrative County, County Borough or County of City	Metropolitan Borough, Urban or Rural District, Borough or District Council	Borough, Urban or County Constabulary	Civil Parish	Boundary Post or Stone	Church	Public House	Public Office	Public House	Signal Box	Siding	Telephone Call Box	Well

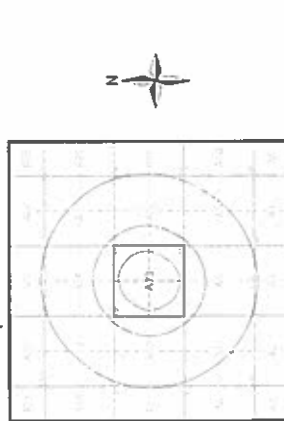
### Ordnance Survey Plan 1:10,000

Gravel Pit	Disused Pit or Quarry	Lake, Loch or Pond	Boulders	Non-Coniferous Trees	Coppice	Rough Grassland	Saltings	Pyren	Electricity Transmission Line	Pole	Standard Gauge Multiple Track	Standard Gauge Single Track	Siding, Tramway or Mineral Line	Narrow Gauge	Geographical County	Administrative County, County Borough or County of City	Metropolitan Borough, Urban or Rural District, Borough or District Council	Borough, Urban or County Constabulary	Civil Parish	Boundary Post or Stone	Public House	Public Office	Public House	Signal Box	Siding	Telephone Call Box	Well

### 1:10,000 Raster Mapping

Gravel Pit	Rock	Boulders	Shingle	Sand	Slopes	General detail	Overhead detail	Multi-track railway	County boundary (England only)	District, Unitary, Metropolitan, London Borough boundary	Area of wooded vegetation	Non-coniferous trees (scattered)	Coniferous trees (scattered)	Orchard	Rough Grassland	Scrub	Water feature	Mean high water (springs)	Telephone line (where shown)	Bench mark (where shown)	Point feature (e.g. Guide Post or Mile Stone)	Site of (antiquity)	General Building

## Historical Map - Slice A



## Order Details

Order Number: 74673377\_1-1  
 Customer Ref: S151122  
 National Grid Reference: 438840, 561860

Slice: A  
 Site Area (Ha): 0.25  
 Search Buffer (m): 1000

## Site Details

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Durham

Published 1862

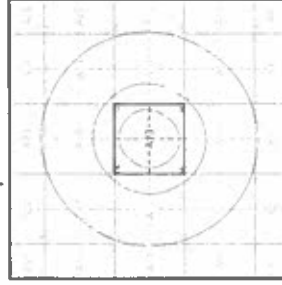
Source map scale - 1:10,560

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

Map Name(s) and Date(s)

00400	1862
110560	
00000	1862
110560	

Historical Map - Slice A



Order Details

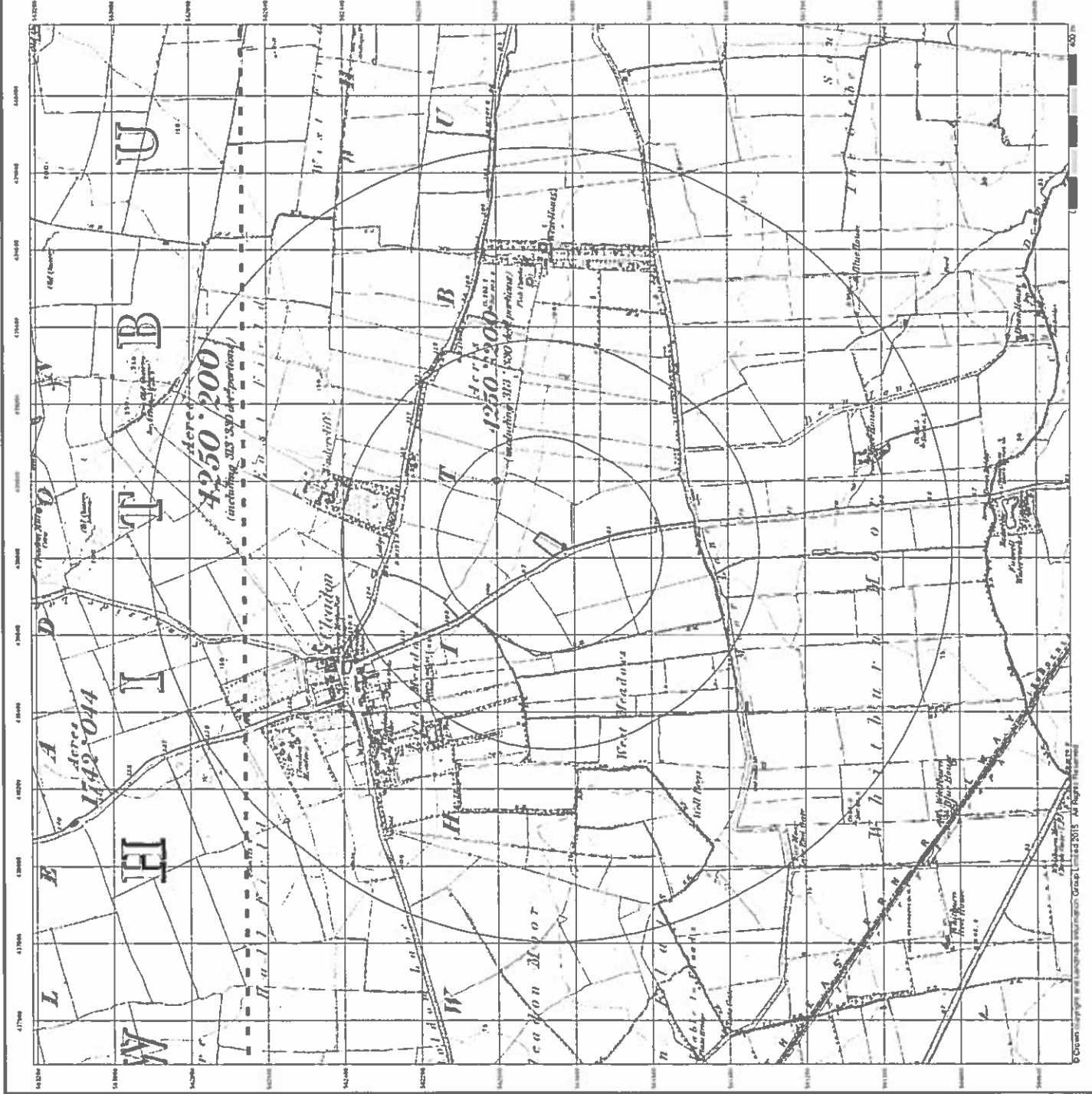
Order Number: 74673377\_1\_1  
 Customer Ref: S151122  
 National Grid Reference: 438840, 561860  
 Slice: A  
 Site Area (Ha): 0.25  
 Search Buffer (m): 1000

Site Details

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 FAX: 0191 444 1001  
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**Durham**

**Published 1898**

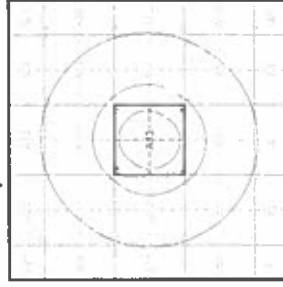
**Source map scale - 1:10,560**

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1939, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties being the aggregation method when updating the 1:10,560 mapping from a number of sources. The maps appear unframed - with all military camps and other strategic sites removed. These maps were initially overlaid with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

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

0045W	1898
0088W	1898
0088W	1910, 1960

**Historical Map - Slice A**



**Order Details**

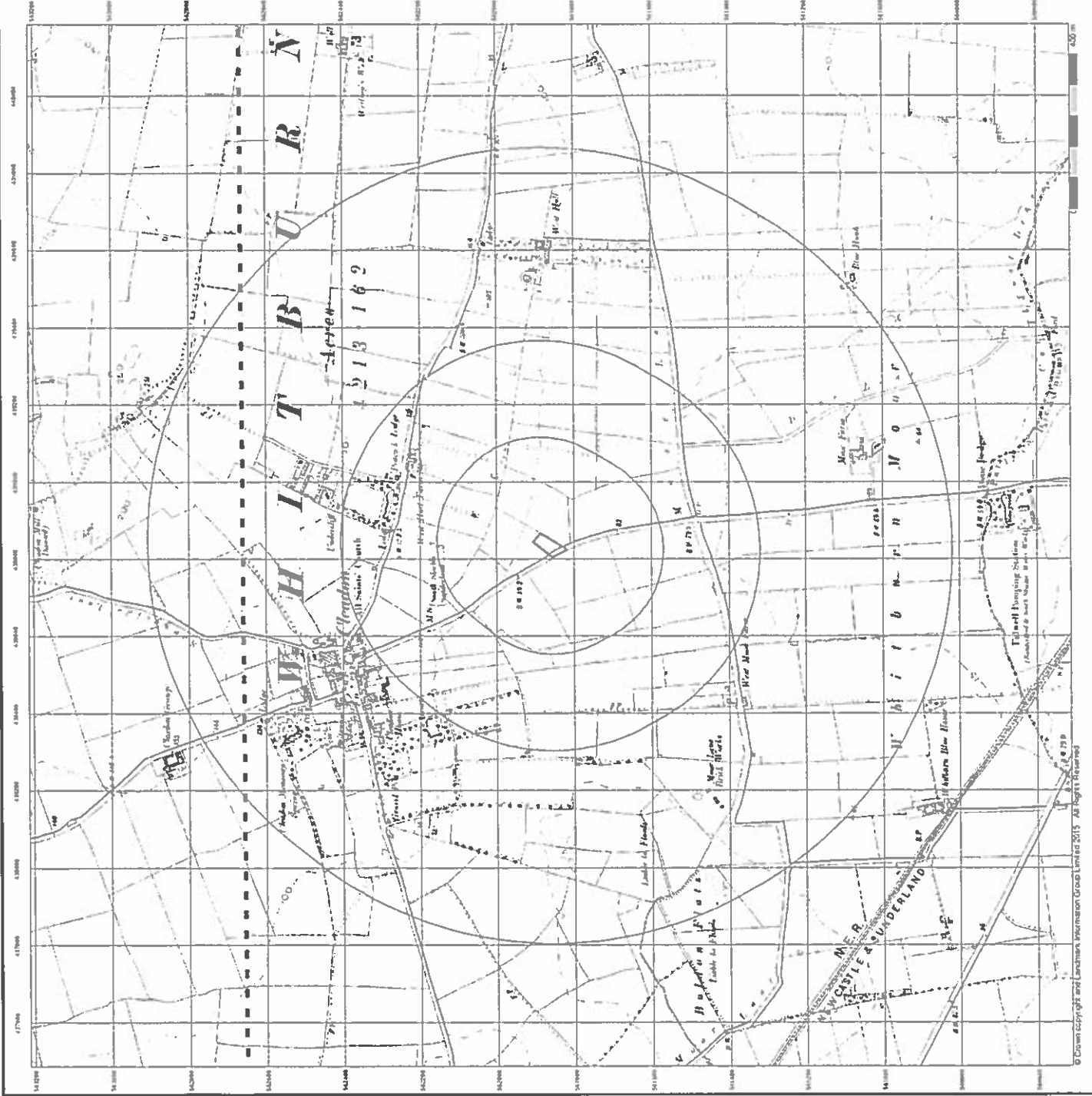
Order Number: 74673377\_A\_1  
 Customer Ref: S151122  
 National Grid Reference: 438840, 561860  
 Slice: A  
 Site Area (Ha): 0.25  
 Search Buffer (m): 1000

**Site Details**

St Sunderland Road, Cleaton Village, SUNDERLAND, SR6 7UW



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 0844 844 0001  
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**Durham**

**Published 1919**

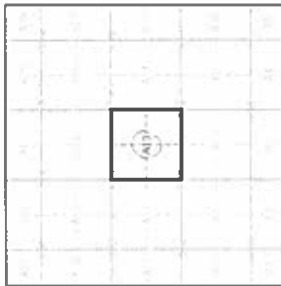
**Source map scale - 1:2,500**

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published data given below is often some years later than the surveyed date. Before 1936 all OS maps were based on the datum of 1830. Properties are shown as they were at the time of the survey, not as they are today. The map is a reproduction of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

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

OS 62  
1840  
1:2,500

**Historical Map - Segment A13**



**Order Details**

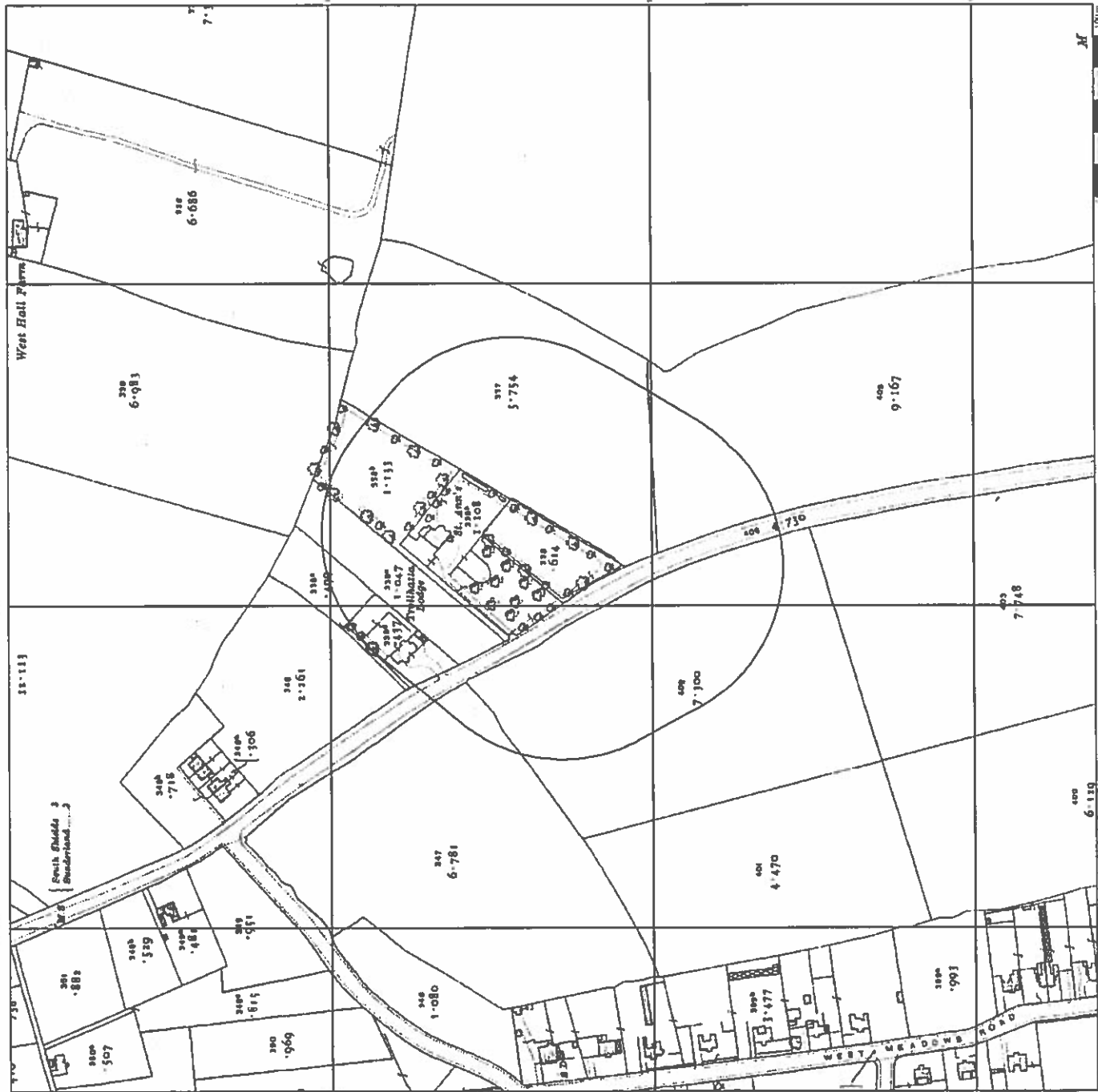
Order Number: 74673377\_1\_1  
 Customer Ref: S151122  
 National Grid Reference: 438840, 561860  
 Slice: A  
 Site Area (Ha): 0.25  
 Search Buffer (m): 100

**Site Details**

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**Durham**

**Published 1921**

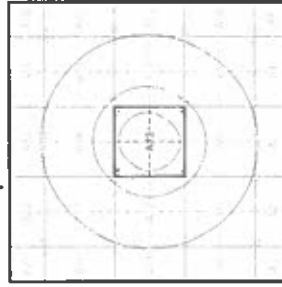
**Source map scale - 1:10,560**

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

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

0045W	1921
1:10,560	
0088W	1921
1:10,560	

**Historical Map - Slice A**

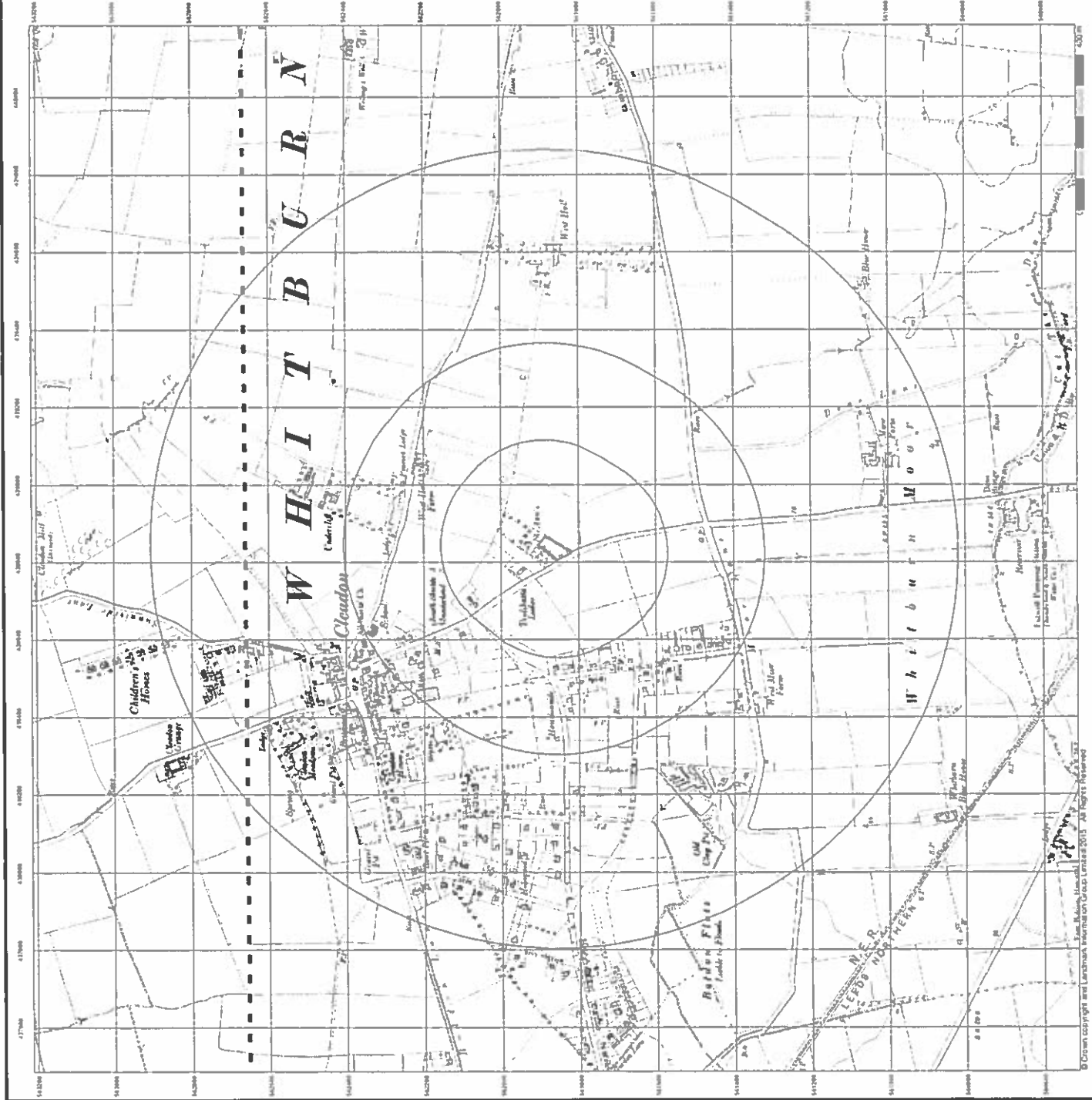


**Order Details**

Order Number: 74673377\_1\_1  
 Customer Ref: S151122  
 National Grid Reference: 438840, 561860  
 Slice: A  
 Site Area (Ha): 0.25  
 Search Buffer (m): 1000

**Site Details**

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**Durham**

**Published 1938**

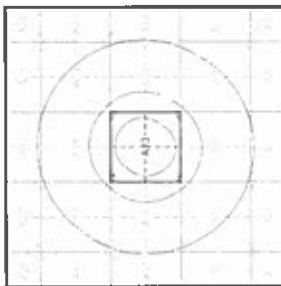
**Source map scale - 1:10,560**

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1940's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published data given in the 1938 edition some years after the source maps were produced. The 1:10,560 maps of the county of Durham were produced by the Ordnance Survey in the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

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

004SW	1938	1:10,560
006NW	1938	1:10,560

**Historical Map - Slice A**



**Order Details**

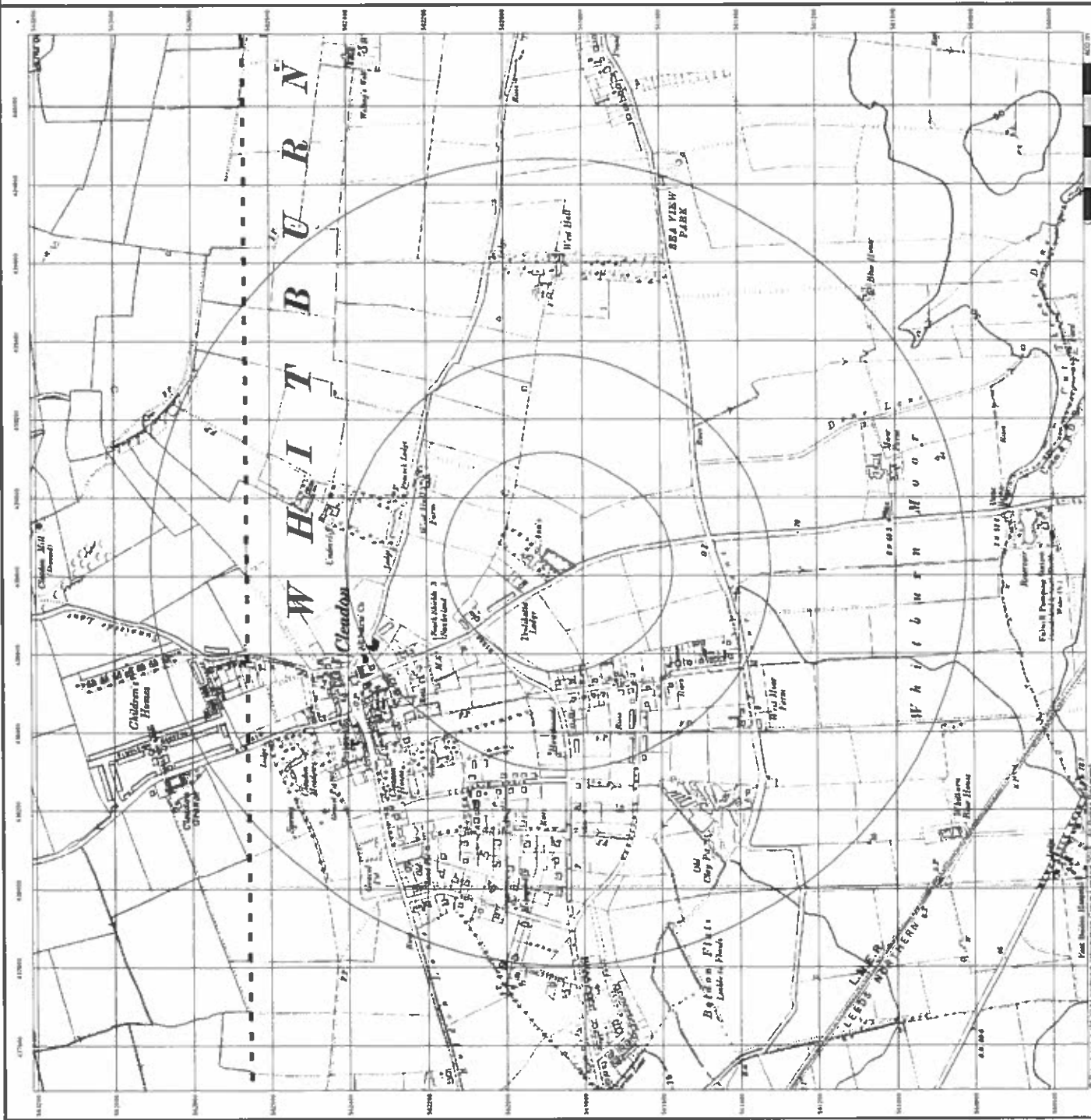
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 Customer Ref: S151122  
 National Grid Reference: 438840, 561860  
 Slice: A  
 Site Area (Ha): 0.25  
 Search Buffer (m): 1000

**Site Details**

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**Durham**

**Published 1939**

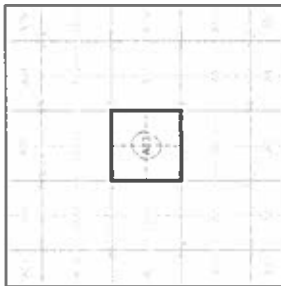
**Source map scale - 1:2,500**

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1940's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1939 all OS maps were issued by county or county borough. From 1939 onwards they are issued by county or group of counties, giving rise to significant inaccuracies in outlying areas.

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



**Historical Map - Segment A13**

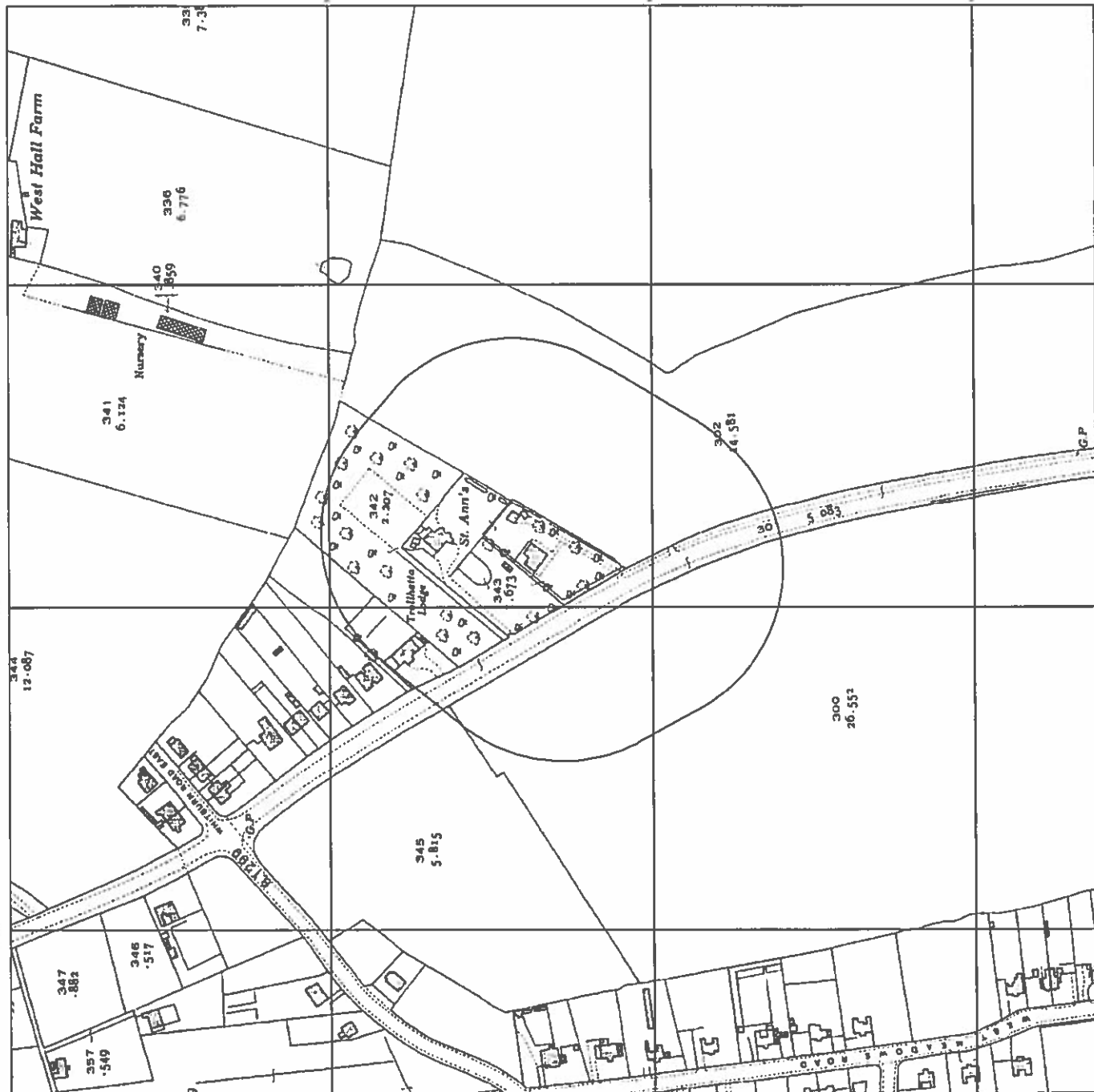


**Order Details**

Order Number 74673377\_1\_1  
 Customer Ref: S151122  
 National Grid Reference: 438840, 561860  
 Slice: A  
 Site Area (Ha): 0.25  
 Search Buffer (m): 100

**Site Details**

51 Sunderland Road, Cleadon Village, SUNDERLAND, SR6 7UW





**Ordnance Survey Plan  
Published 1951**

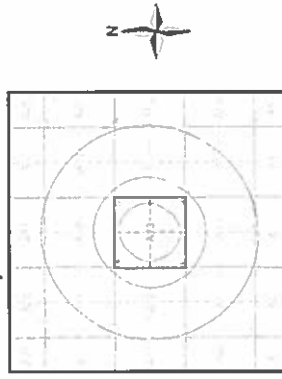
**Source map scale - 1:10,000**

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1940s. In 1954 the 1:2,500 scale was adopted for mapping urban areas, these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were produced on the Cassini Projection, with independent surveys of large country areas in the 1940s. A Provisional Edition was produced which updated the 1:10,560 mapping from a number of sources. The maps appear unaltered - with all military camps and other strategic sites removed. These maps were reprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

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



**Historical Map - Slice A**



**Order Details**

Order Number 74673377\_1\_1  
 Customer Ref. S151122  
 National Grid Reference: 438840, 561860  
 Slice: A  
 Site Area (Ha) 0.25  
 Search Buffer (m) 1000

**Site Details**

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**Ordnance Survey Plan  
Published 1958**

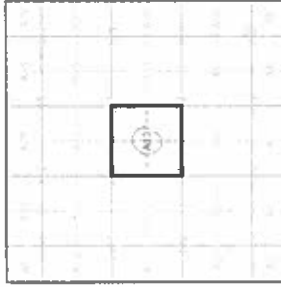
**Source map scale - 1:1,250**

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1940's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the urban parts of Great Britain. The published date given below is often some years earlier than the surveyed date. Before 1940 the Ordnance Survey did not publish the names of individual streets, but only the names of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

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

NC23862SW	1958	1:1,250
NC23862SE	1958	1:1,250
NC23861NW	1958	1:1,250
NC23861NE	1958	1:1,250

**Historical Map - Segment A13**

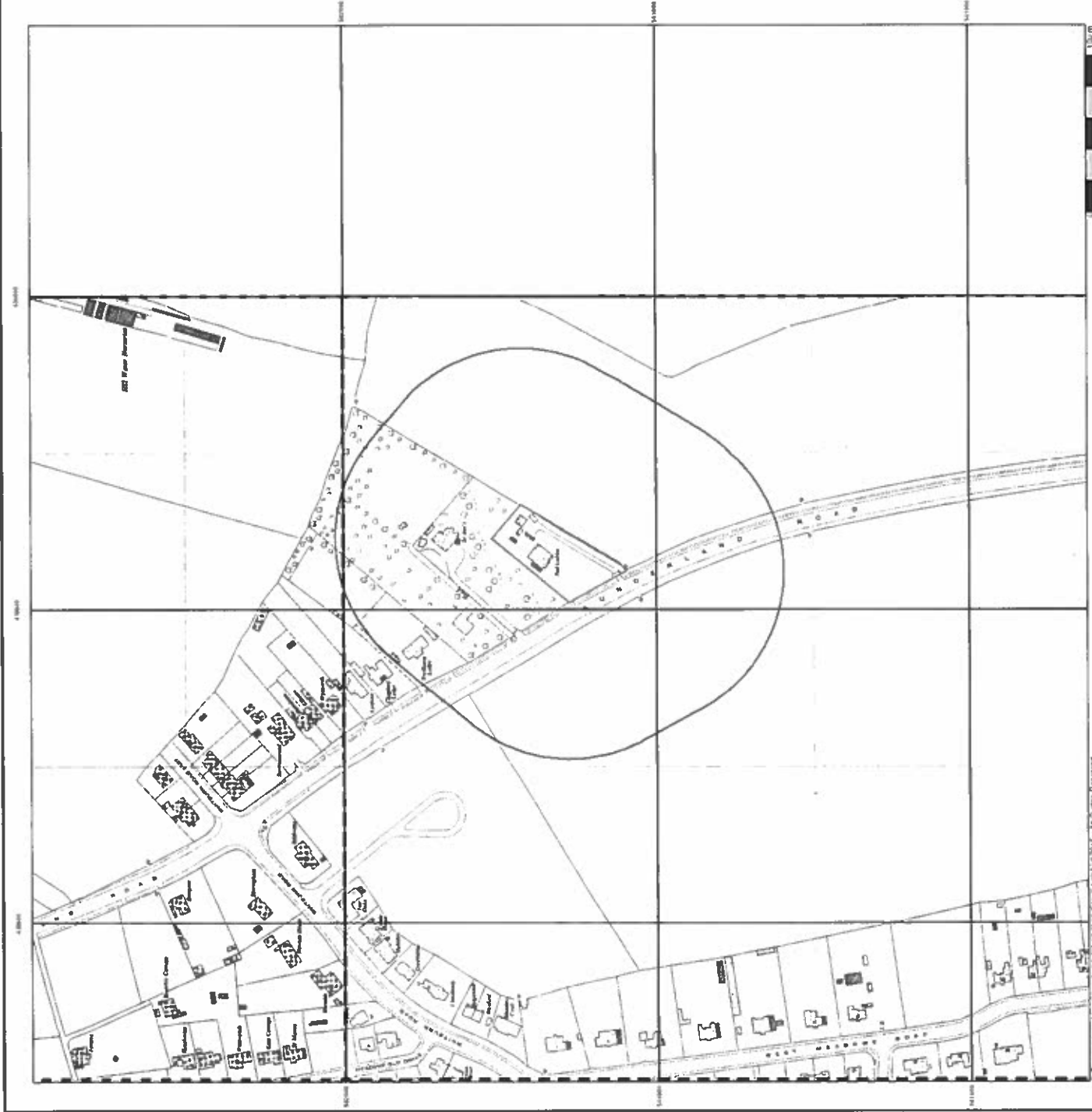


**Order Details**

Order Number: 74673377\_1\_1  
 Customer Ref: S151122  
 National Grid Reference: 438840, 561860  
 Slice: A  
 Site Area (Ha): 0.25  
 Search Buffer (m): 100

**Site Details**

51 Sunderland Road, Cleadon Village, SUNDERLAND, SR6 7UW



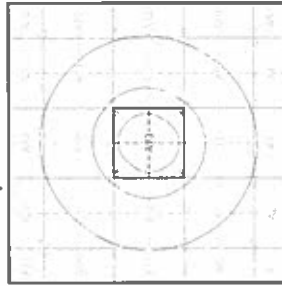
**Ordnance Survey Plan  
Published 1966 - 1968  
Source map scale - 1:10,000**

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published Ordnance Survey maps were based on data from the surveyed data. Before 1958, all Ordnance Survey maps were produced on a grid of squares. In the late 1940's, a Provisional Edition was produced which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all railway camps and other strategic sites removed. These maps were mainly overlaid with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

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



**Historical Map - Slice A**



**Order Details**

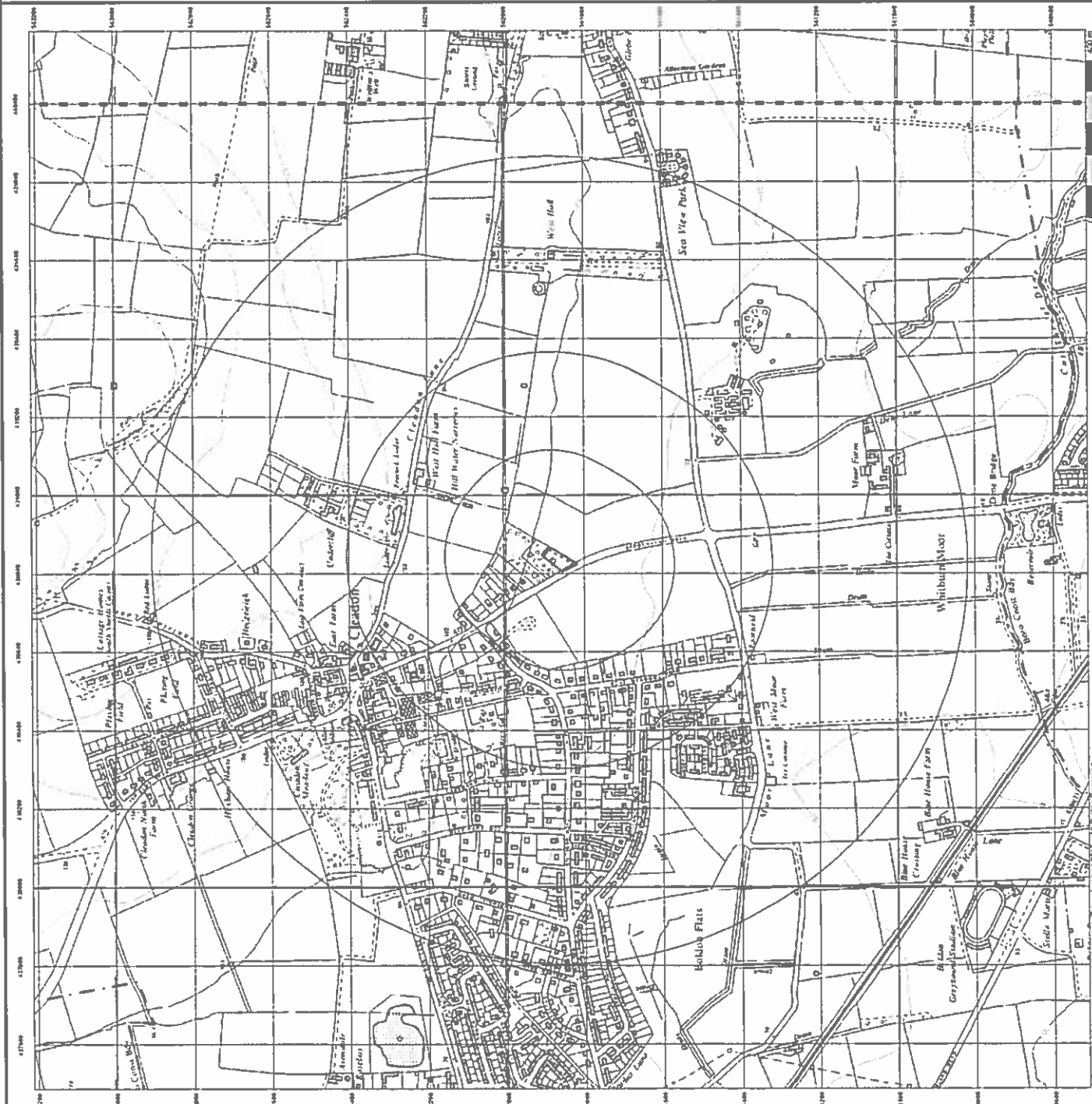
Order Number: 74673377\_1\_1  
 Customer Ref: S151122  
 National Grid Reference: 438840, 561960  
 Slice: A  
 Site Area (Ha): 0.25  
 Search Buffer (m): 1000

**Site Details**

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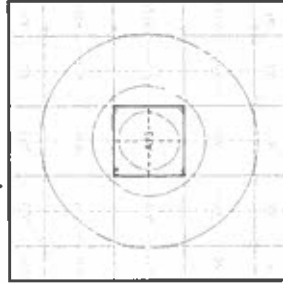
**Ordnance Survey Plan  
Published 1984 - 1987  
Source map scale - 1:10,000**

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1940's. In 1854 the 1:2,500 scale was adopted for mapping urban areas, these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1939, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to local distortions. Following the 1:10,560 mapping from a number of sources, the maps appear unadjusted - with all military camps and other strategic sites removed. These maps were emboldened with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

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



**Historical Map - Slice A**



**Order Details**

Order Number: 7467377\_1\_1  
 Customer Ref: S151122  
 National Grid Reference: 438840, 561860  
 Slice: A  
 Site Area (Ha): 0.25  
 Search Buffer (m): 1000

**Site Details**

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**10k Raster Mapping  
Published 2006**

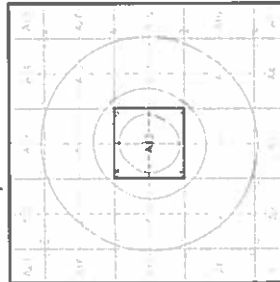
**Source map scale - 1:10,000**

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

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

NZ465E	NZ465W
2006	2006
1:10,000	1:10,000

**Historical Map - Slice A**



**Order Details**

Order Number: 74673377\_1\_1  
 Customer Ref: S151122  
 National Grid Reference: 438840, 561860  
 Slice: A  
 Site Area (Ha): 0.25  
 Search Buffer (m): 1000

**Site Details**

51 Sunderland Road, Cleaton Village, SUNDERLAND, SR6 7UW



**VectorMap Local  
Published 2015**

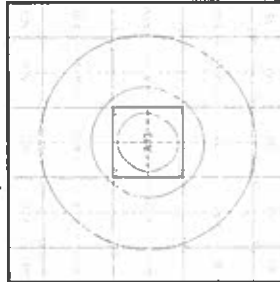
**Source map scale - 1:10,000**

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

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



**Historical Map - Slice A**



**Order Details**

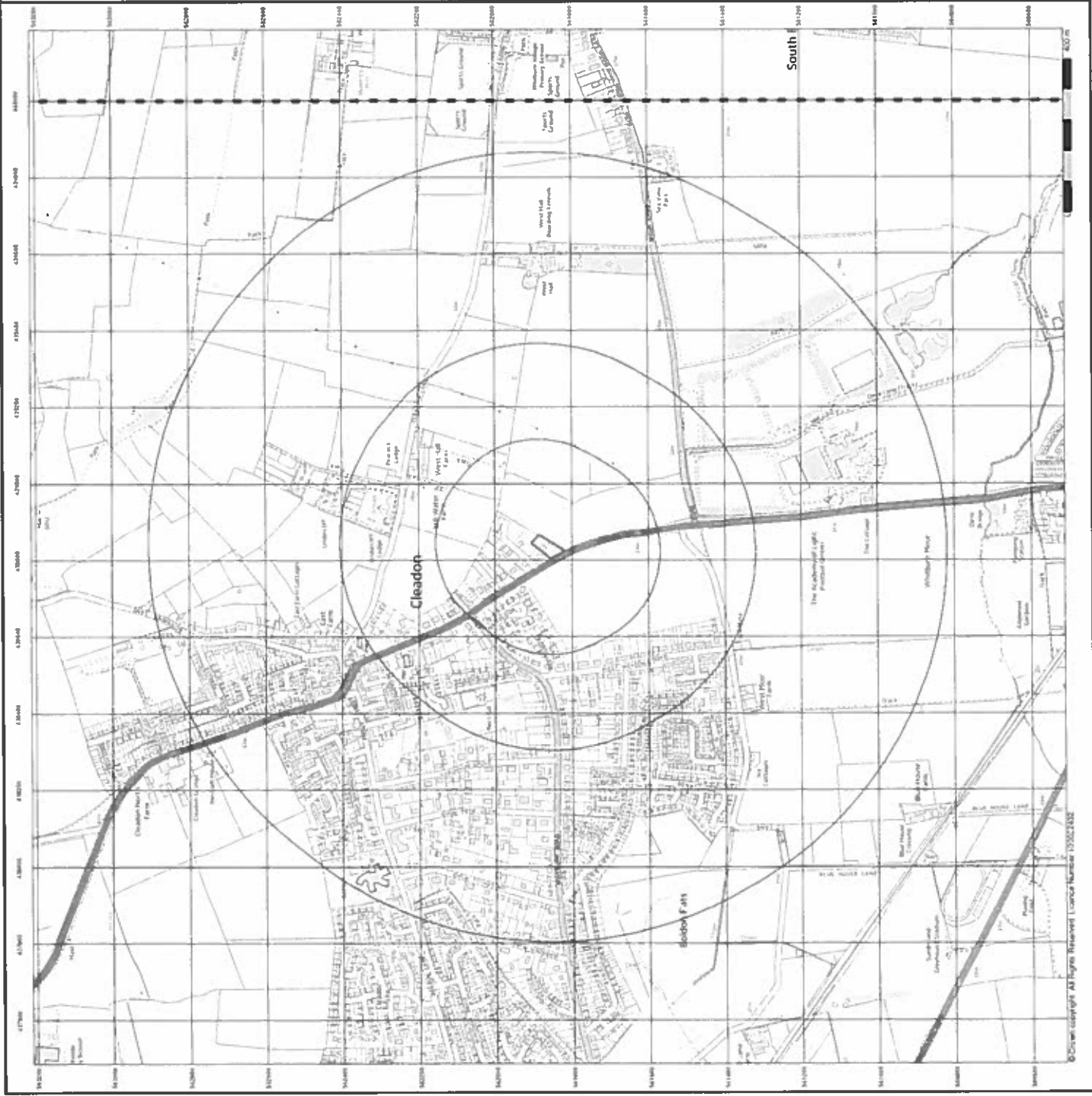
Order Number 74673377\_1\_1  
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 National Grid Reference 438840, 561660  
 Slice A  
 Site Area (Ha) 0.25  
 Search Buffer (m) 1000

**Site Details**

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**Appendix C**  
**Envirocheck Report**

---

## Envirocheck<sup>®</sup> Report:

### Datasheet

#### Order Details:

**Order Number:**

74673377\_1\_1

**Customer Reference:**

S151122

**National Grid Reference:**

438840, 561860

**Slice:**

A

**Site Area (Ha):**

0.25

**Search Buffer (m):**

1000

#### Site Details:

51 Sunderland Road

Cleadon Village

SUNDERLAND

SR6 7UW

#### Client Details:

Mr R Woods

Solmek Ltd

12 Yarm Road

Stockton on Tees

Cleveland

TS18 3NA



Report Section	Page Number
Summary	-
Agency & Hydrological	1
Waste	4
Hazardous Substances	-
Geological	5
Industrial Land Use	16
Sensitive Land Use	17
Data Currency	18
Data Suppliers	22
Useful Contacts	23

## Introduction

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

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

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## Radon Potential dataset Copyright Notice

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## Report Version v50.0

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
<b>Agency &amp; Hydrological</b>					
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 1				1
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 1				1
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 1		Yes		
Pollution Incidents to Controlled Waters					
Prosecutions Relating to Authorised Processes					
Prosecutions Relating to Controlled Waters					
Registered Radioactive Substances					
River Quality					
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points					
Substantiated Pollution Incident Register					
Water Abstractions	pg 1				(*6)
Water Industry Act Referrals					
Groundwater Vulnerability	pg 2	Yes	n/a	n/a	n/a
Bedrock Aquifer Designations	pg 3	Yes	n/a	n/a	n/a
Superficial Aquifer Designations	pg 3	Yes	n/a	n/a	n/a
Source Protection Zones	pg 3		2		1
Extreme Flooding from Rivers or Sea without Defences				n/a	n/a
Flooding from Rivers or Sea without Defences				n/a	n/a
Areas Benefiting from Flood Defences				n/a	n/a
Flood Water Storage Areas				n/a	n/a
Flood Defences				n/a	n/a
Detailed River Network Lines					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)
<b>Waste</b>					
BGS Recorded Landfill Sites					
Historical Landfill Sites	pg 4				1
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)					
Local Authority Recorded Landfill Sites					
Registered Landfill Sites					
Registered Waste Transfer Sites					
Registered Waste Treatment or Disposal Sites					
<b>Hazardous Substances</b>					
Control of Major Accident Hazards Sites (COMAH)					
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)					
Planning Hazardous Substance Consents					
Planning Hazardous Substance Enforcements					
<b>Geological</b>					
BGS 1:625,000 Solid Geology	pg 5	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 5	Yes	Yes	Yes	Yes
BGS Recorded Mineral Sites	pg 14				4
BGS Urban Soil Chemistry					
BGS Urban Soil Chemistry Averages					
Brine Compensation Area			n/a	n/a	n/a
Coal Mining Affected Areas	pg 14	Yes	n/a	n/a	n/a
Mining Instability	pg 14	Yes	n/a	n/a	n/a
Man-Made Mining Cavities					
Natural Cavities					
Non Coal Mining Areas of Great Britain				n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 14	Yes		n/a	n/a
Potential for Compressible Ground Stability Hazards				n/a	n/a
Potential for Ground Dissolution Stability Hazards	pg 15	Yes	Yes	n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 15	Yes		n/a	n/a
Potential for Running Sand Ground Stability Hazards				n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 15	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

<b>Data Type</b>	<b>Page Number</b>	<b>On Site</b>	<b>0 to 250m</b>	<b>251 to 500m</b>	<b>501 to 1000m (*up to 2000m)</b>
<b>Industrial Land Use</b>					
Contemporary Trade Directory Entries	pg 16			1	7
Fuel Station Entries	pg 16				1
<b>Sensitive Land Use</b>					
Areas of Adopted Green Belt	pg 17		1		
Areas of Unadopted Green Belt					
Areas of Outstanding Natural Beauty					
Environmentally Sensitive Areas					
Forest Parks					
Local Nature Reserves	pg 17				1
Marine Nature Reserves					
National Nature Reserves					
National Parks					
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones					
Ramsar Sites					
Sites of Special Scientific Interest	pg 17				2
Special Areas of Conservation					
Special Protection Areas					

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	<b>Discharge Consents</b> Operator: South Tyneside District Scouts Property Type: Sewage Disposal Works - Other Location: Westhall Campsite, Moor Lane, Whitburn, Tyne & Wear Authority: Environment Agency, North East Region Catchment Area: Not Supplied Reference: 235/2011 Permit Version: 1 Effective Date: 18th July 2007 Issued Date: 18th July 2007 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Cut Throat Dene (North Sea) <b>Status: New Consent, by Application (Water Resources Act 1991, Section 88)</b> Positional Accuracy: Located by supplier to within 10m	A14SE (E)	702	2	439560 561780
2	<b>Local Authority Pollution Prevention and Controls</b> Name: Cleadon Service Station (Bp) Location: Shields Road, Cleadon, SUNDERLAND, Tyne and Wear, SR6 7PQ Authority: South Tyneside Metropolitan Borough Council, Environmental Health Department Permit Reference: STC/015b/1.2(d) B Dated: 27th October 1999 Process Type: Local Authority Pollution Prevention and Control Description: PG1/14 Petrol filling station <b>Status: Permitted</b> Positional Accuracy: Automatically positioned to the address	A17SE (NW)	688	3	438456 562471
	<b>Nearest Surface Water Feature</b>	A13NE (NE)	173	-	439004 561991
	<b>Water Abstractions</b> Operator: Sunderland Afc Ltd Licence Number: 1/24/05/061/R01 Permit Version: 1 Location: Pond - Academy Of Light Authority: Environment Agency, North East Region Abstraction: Sports Grounds/Facilities: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 1st April 2014 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A9SW (SE)	1049	2	439408 560948
	<b>Water Abstractions</b> Operator: Sunderland Afc Ltd Licence Number: 1/24/05/061 Permit Version: 1 Location: Pond - Academy Of Light Authority: Environment Agency, North East Region Abstraction: Sports Grounds/Facilities: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Academy Of Light Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 10th May 2002 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A9SW (SE)	1049	2	439408 560948

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>Water Abstractions</b> Operator: Sunderland Afc Ltd Licence Number: 1/24/05/060/R01 Permit Version: 1 Location: Borehole - Magnesian Limestone-Academy Of Light-Sunderland Authority: Environment Agency, North East Region Abstraction: Sports Grounds/Facilities: Transfer Between Sources Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 1st April 2014 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A9SW (SE)	1068	2	439411 560927
	<b>Water Abstractions</b> Operator: Sunderland Afc Ltd Licence Number: 1/24/05/060 Permit Version: 1 Location: Borehole - Magnesian Limestone-Academy Of Light-Sunderland Authority: Environment Agency, North East Region Abstraction: Sports Grounds/Facilities: Transfer Between Sources Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Academy Of Light Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 1st April 2006 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A9SW (SE)	1068	2	439411 560927
	<b>Water Abstractions</b> Operator: Northumbrian Water Licence Number: 1/24/05/035 Permit Version: 100 Location: Borehole - Magnesian Limestone - Fulwell Authority: Environment Agency, North East Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 5455 Yearly Rate (m3): 1827492 Details: Within The Authorised Area Of Supply Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 8th April 1968 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A3NE (S)	1250	2	438880 560570
	<b>Water Abstractions</b> Operator: Northumbrian Water Licence Number: 1/23/05/001 Permit Version: 100 Location: Borehole - Magnesian Limestone - Cleadon Authority: Environment Agency, North East Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 5773 Yearly Rate (m3): 1241058 Details: Within The Authorised Area Of Supply Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 8th April 1968 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(N)	1680	2	438720 563580
	<b>Groundwater Vulnerability</b> Soil Classification: Soils of Intermediate Leaching Potential (I1) - Soils which can possibly transmit a wide range of pollutants Map Sheet: Sheet 5 Tyne and Tees Scale: 1:100,000	A13NW (SE)	0	2	438835 561863
	<b>Drift Deposits</b> Drift Deposit: Low permeability drift deposits occurring at the surface and overlying Major and Minor Aquifers are head, clay-with-flints, brickearth, peat, river terrace deposits and marine and estuarine alluvium Map Sheet: Sheet 5 Tyne and Tees Scale: 1:100,000	A13NW (SE)	0	2	438835 561863

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>Bedrock Aquifer Designations</b> Aquifer Designation: Principal Aquifer	A13NW (SE)	0	4	438835 561863
	<b>Superficial Aquifer Designations</b> Aquifer Designation: Unproductive Strata	A13NW (SE)	0	4	438835 561863
3	<b>Source Protection Zones</b> Name: Fulwell Source: Environment Agency, Head Office Reference: Ne031 Type: Zone III (Total Catchment): The total area needed to support the discharge from the protected groundwater source.	A13SW (SW)	201	2	438642 561731
4	<b>Source Protection Zones</b> Name: Fulwell Source: Environment Agency, Head Office Reference: Ne031 Type: Zone II (Outer Protection Zone): Either 25% of the source area or a 400 day travel time whichever is greater.	A13SW (SW)	219	2	438709 561633
5	<b>Source Protection Zones</b> Name: Cleadon Source: Environment Agency, Head Office Reference: Ne029 Type: Zone III (Total Catchment): The total area needed to support the discharge from the protected groundwater source.	A18NW (N)	725	2	438718 562619
	<b>Extreme Flooding from Rivers or Sea without Defences</b> None				
	<b>Flooding from Rivers or Sea without Defences</b> None				
	<b>Areas Benefiting from Flood Defences</b> None				
	<b>Flood Water Storage Areas</b> None				
	<b>Flood Defences</b> None				
	<b>Detailed River Network Lines</b> None				
	<b>Detailed River Network Offline Drainage</b> None				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
6	<b>Historical Landfill Sites</b> Licence Holder: Not Supplied Location: Moor Lane, Boldon Name: Boldon Flatts Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD06278 First Input Date: Not Supplied Last Input Date: Not Supplied Specified Waste: Not Supplied Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: Not Supplied BGS Ref: Not Supplied Other Ref: ST 002	A12SE (SW)	570	2	438292 561608
	<b>Local Authority Landfill Coverage</b> Name: South Tyneside Metropolitan Borough Council - Has no landfill data to supply		0	6	438835 561863



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>BGS 1:625,000 Solid Geology</b> Description: Zechstein Group	A13NW (SE)	0	4	438835 561863
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13NW (SE)	0	4	438835 561863
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 90 - 120 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13NE (N)	31	4	438849 561935
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SW (SW)	46	4	438780 561797
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13NE (N)	48	4	438852 561952
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13NW (N)	95	4	438835 562000
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13NE (E)	134	4	439000 561863

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 90 - 120 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A13NE (E)	134	4	439000 561896
	<b>BGS Estimated Soil Chemistry</b> 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 (E)	137	4	439000 561914
	<b>BGS Estimated Soil Chemistry</b> 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)	176	4	439000 562000
	<b>BGS Estimated Soil Chemistry</b> 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	438889 562081
	<b>BGS Estimated Soil Chemistry</b> 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)	217	4	439000 562057
	<b>BGS Estimated Soil Chemistry</b> 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)	277	4	439000 561605

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: 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 (W)	286	4	438547 561979
	<b>BGS Estimated Soil Chemistry</b> 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)	320	4	438519 562000
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 90 - 120 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A13SW (SW)	342	4	438544 561623
	<b>BGS Estimated Soil Chemistry</b> 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)	413	4	438927 562310
	<b>BGS Estimated Soil Chemistry</b> 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)	424	4	439000 562299
	<b>BGS Estimated Soil Chemistry</b> 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:	A12NE (NW)	429	4	438452 562099

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: 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 (NW)	464	4	438511 562227
	<b>BGS Estimated Soil Chemistry</b> 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:	A14NW (E)	568	4	439423 562000
	<b>BGS Estimated Soil Chemistry</b> 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:	A12NE (NW)	572	4	438332 562178
	<b>BGS Estimated Soil Chemistry</b> 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:	A12SE (W)	601	4	438218 561727
	<b>BGS Estimated Soil Chemistry</b> 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:	A9NW (SE)	662	4	439350 561414
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 90 - 120 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A12NW (W)	682	4	438133 561974

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: 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:	A9NW (SE)	705	4	439211 561230
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 90 - 120 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A12NW (W)	716	4	438104 562000
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 90 - 120 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A12NW (W)	726	4	438100 562027
	<b>BGS Estimated Soil Chemistry</b> 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)	751	4	439608 562000
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 90 - 120 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A12NW (W)	757	4	438062 562000
	<b>BGS Estimated Soil Chemistry</b> 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)	764	4	438061 562030

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: 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)	782	4	438276 561261
	<b>BGS Estimated Soil Chemistry</b> 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)	805	4	438000 561863
	<b>BGS Estimated Soil Chemistry</b> 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)	812	4	438006 562000
	<b>BGS Estimated Soil Chemistry</b> 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)	813	4	438009 562020
	<b>BGS Estimated Soil Chemistry</b> 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)	818	4	438000 562000
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 90 - 120 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A12NW (W)	818	4	438000 562002

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: 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:	A8SW (S)	819	4	438835 561000
	<b>BGS Estimated Soil Chemistry</b> 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)	822	4	438000 562023
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 90 - 120 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A12NW (W)	824	4	438000 562032
	<b>BGS Estimated Soil Chemistry</b> 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)	825	4	438000 562036
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 90 - 120 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A12SW (W)	827	4	438000 561666
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 90 - 120 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A12NW (W)	836	4	438000 562082

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: 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)	838	4	439000 561000
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 90 - 120 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A8SW (S)	851	4	438594 561000
	<b>BGS Estimated Soil Chemistry</b> 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	438000 562130
	<b>BGS Estimated Soil Chemistry</b> 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)	853	4	439064 561000
	<b>BGS Estimated Soil Chemistry</b> 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)	869	4	438000 562182
	<b>BGS Estimated Soil Chemistry</b> 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:	A7NW (SW)	898	4	438000 561459



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>BGS Estimated Soil Chemistry</b> Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: 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)	907	4	439214 561000
	<b>BGS Estimated Soil Chemistry</b> 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)	928	4	439000 560908
	<b>BGS Estimated Soil Chemistry</b> 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:	A17SW (NW)	931	4	438130 562500
	<b>BGS Estimated Soil Chemistry</b> 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)	985	4	437841 562058
	<b>BGS Estimated Soil Chemistry</b> 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)	993	4	439429 561032
	<b>BGS Estimated Soil Chemistry</b> 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:	A3NE (S)	999	4	438935 560826

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
7	<b>BGS Recorded Mineral Sites</b> Site Name: Moor Lane Brick Works Location: , Cleadon, South Shields, Tyne & Wear Source: British Geological Survey, National Geoscience Information Service Reference: 99260 Type: Opencast <b>Status: Ceased</b> Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Quaternary Geology: Pelaw Clay Member Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A7NE (SW)	723	4	438184 561485
8	<b>BGS Recorded Mineral Sites</b> Site Name: Cleadon Gravel Pit Location: , Cleadon, South Shields, Tyne & Wear Source: British Geological Survey, National Geoscience Information Service Reference: 99269 Type: Opencast <b>Status: Ceased</b> Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Quaternary Geology: Glaciofluvial Deposits, Devensian Commodity: Sand and Gravel Positional Accuracy: Located by supplier to within 10m	A17SE (NW)	765	4	438290 562431
9	<b>BGS Recorded Mineral Sites</b> Site Name: Cleadon Sand Pit Location: , Cleadon, South Shields, Tyne & Wear Source: British Geological Survey, National Geoscience Information Service Reference: 99268 Type: Opencast <b>Status: Ceased</b> Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Quaternary Geology: Glaciofluvial Deposits, Devensian Commodity: Sand Positional Accuracy: Located by supplier to within 10m	A17SW (NW)	804	4	438093 562229
10	<b>BGS Recorded Mineral Sites</b> Site Name: Cleadon Gravel Pit Location: , Cleadon, South Shields, Tyne & Wear Source: British Geological Survey, National Geoscience Information Service Reference: 99267 Type: Opencast <b>Status: Ceased</b> Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Quaternary Geology: Glaciofluvial Deposits, Devensian Commodity: Sand and Gravel Positional Accuracy: Located by supplier to within 10m	A17SW (NW)	859	4	438098 562344
	<b>BGS Measured Urban Soil Chemistry</b> No data available				
	<b>BGS Urban Soil Chemistry Averages</b> No data available				
	<b>Coal Mining Affected Areas</b> Description: In an area which may be affected by coal mining activity. It is recommended that a coal mining report is obtained from the Coal Authority. Contact details are included in the Useful Contacts section of this report.	A13NW (SE)	0	5	438835 561863
	<b>Mining Instability</b> Mining Evidence: Inconclusive Coal Mining Source: Ove Arup & Partners Boundary Quality: As Supplied	A13NW (SE)	0	-	438835 561863
	<b>Non Coal Mining Areas of Great Britain</b> No Hazard				
	<b>Potential for Collapsible Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (SE)	0	4	438835 561863
	<b>Potential for Compressible Ground Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (SE)	0	4	438835 561863

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>Potential for Ground Dissolution Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (SE)	0	4	438835 561863
	<b>Potential for Ground Dissolution Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (N)	30	4	438849 561935
	<b>Potential for Ground Dissolution Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (N)	48	4	438852 561952
	<b>Potential for Landslide Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (SE)	0	4	438835 561863
	<b>Potential for Running Sand Ground Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (SE)	0	4	438835 561863
	<b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b> Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NW (SE)	0	4	438835 561863
	<b>Radon Potential - Radon Protection Measures</b> Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A13NW (SE)	0	4	438835 561863
	<b>Radon Potential - Radon Affected Areas</b> Affected Area: The property is in a lower probability radon area, as less than 1% of homes are above the action level Source: British Geological Survey, National Geoscience Information Service	A13NW (SE)	0	4	438835 561863

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
11	<b>Contemporary Trade Directory Entries</b> Name: Seaburn Plasterers Location: 18a, Whitburn Road, Cleadon, Sunderland, SR6 7QP Classification: Damp & Dry Rot Control <b>Status: Inactive</b> Positional Accuracy: Automatically positioned to the address	A12NE (W)	408	-	438397 561871
12	<b>Contemporary Trade Directory Entries</b> Name: Bp Location: Margram Service Station, Shields Road, Cleadon, Sunderland, SR6 7PQ Classification: Petrol Filling Stations <b>Status: Inactive</b> Positional Accuracy: Automatically positioned to the address	A17SE (NW)	688	-	438456 562471
13	<b>Contemporary Trade Directory Entries</b> Name: Ambicoool Ltd Location: 18, West Park Road, Sunderland, Tyne and Wear, SR6 7RR Classification: Air Conditioning Equipment & Systems <b>Status: Inactive</b> Positional Accuracy: Automatically positioned to the address	A12NW (W)	706	-	438117 562015
14	<b>Contemporary Trade Directory Entries</b> Name: Britannia Auto Centres Ltd Location: 3, Boldon Lane, Sunderland, Tyne and Wear, SR6 7RH Classification: Tyre Dealers <b>Status: Inactive</b> Positional Accuracy: Automatically positioned to the address	A17SE (NW)	716	-	438287 562353
15	<b>Contemporary Trade Directory Entries</b> Name: Allison Heating Ltd Location: 12, Sunnyside Lane, Cleadon, Sunderland, SR6 7XB Classification: Boilers - Servicing, Replacements & Repairs <b>Status: Active</b> Positional Accuracy: Automatically positioned to the address	A18NW (N)	730	-	438607 562595
16	<b>Contemporary Trade Directory Entries</b> Name: 2 Hot 2 Handle Location: 14, Cleadon Meadows, Sunderland, SR6 7PH Classification: Oven cleaning <b>Status: Active</b> Positional Accuracy: Automatically positioned to the address	A17SE (NW)	770	-	438360 562503
17	<b>Contemporary Trade Directory Entries</b> Name: P E Clark Ltd Location: 75, Whitburn Road, Cleadon, Sunderland, SR6 7RB Classification: Cabinet Makers <b>Status: Active</b> Positional Accuracy: Automatically positioned to the address	A11SE (W)	991	-	437815 561804
18	<b>Contemporary Trade Directory Entries</b> Name: Stained Glass Works Location: 6, Sea View Park, Sunderland, SR6 7JS Classification: Stained Glass Designers & Producers <b>Status: Active</b> Positional Accuracy: Automatically positioned to the address	A14SE (E)	994	-	439806 561563
19	<b>Fuel Station Entries</b> Name: Cleadon Service Station Location: Shields Road, Cleadon, Sunderland, Tyne & Wear, SR6 7PQ Brand: Jet Premises Type: Petrol Station <b>Status: Open</b> Positional Accuracy: Manually positioned to the address or location	A17SE (NW)	688	-	438456 562472

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
20	<b>Areas of Adopted Green Belt</b> Authority: South Tyneside Metropolitan Borough Council, Planning Department Plan Name: Core Strategy Status: <b>Adopted</b> Plan Date: 30th June 2007	A13SE (SE)	1	6	438849 561855
21	<b>Local Nature Reserves</b> Name: Cleadon Hills Multiple Area: N Area (m2): 101999.89 Source: Natural England Designation Date: 28th March 2012	A18NE (N)	966	8	438928 562868
22	<b>Sites of Special Scientific Interest</b> Name: Boldon Pastures Multiple Areas: N Total Area (m2): 35528.34 Source: Natural England Reference: 1002859 Designation Details: Site Of Special Scientific Interest Designation Date: 1st April 1987 Date Type: Notified	A12SW (W)	705	8	438134 561641
23	<b>Sites of Special Scientific Interest</b> Name: Cleadon Hill Multiple Areas: N Total Area (m2): 102837.39 Source: Natural England Reference: 1000817 Designation Details: Site Of Special Scientific Interest Designation Date: 1st April 1984 Date Type: Notified	A18NE (N)	966	8	438928 562868

Agency & Hydrological	Version	Update Cycle
<b>Contaminated Land Register Entries and Notices</b> South Tyneside Metropolitan Borough Council - Neighbourhood Services Sunderland City Metropolitan Borough Council - Environmental Health Department	December 2014 March 2015	Annual Rolling Update Annually
<b>Discharge Consents</b> Environment Agency - North East Region	July 2015	Quarterly
<b>Enforcement and Prohibition Notices</b> Environment Agency - North East Region	March 2013	As notified
<b>Integrated Pollution Controls</b> Environment Agency - North East Region	October 2008	Not Applicable
<b>Integrated Pollution Prevention And Control</b> Environment Agency - North East Region	July 2015	Quarterly
<b>Local Authority Integrated Pollution Prevention And Control</b> Sunderland City Metropolitan Borough Council - Environmental Health Department South Tyneside Metropolitan Borough Council - Environmental Health Department	July 2013 September 2012	Annual Rolling Update Annual Rolling Update
<b>Local Authority Pollution Prevention and Controls</b> Sunderland City Metropolitan Borough Council - Environmental Health Department South Tyneside Metropolitan Borough Council - Environmental Health Department	July 2013 September 2012	Annual Rolling Update Annual Rolling Update
<b>Local Authority Pollution Prevention and Control Enforcements</b> Sunderland City Metropolitan Borough Council - Environmental Health Department South Tyneside Metropolitan Borough Council - Environmental Health Department	July 2013 September 2012	Annual Rolling Update Annual Rolling Update
<b>Nearest Surface Water Feature</b> Ordnance Survey	July 2012	Quarterly
<b>Pollution Incidents to Controlled Waters</b> Environment Agency - North East Region	December 1998	Not Applicable
<b>Prosecutions Relating to Authorised Processes</b> Environment Agency - North East Region	March 2013	As notified
<b>Prosecutions Relating to Controlled Waters</b> Environment Agency - North East Region	March 2013	As notified
<b>River Quality</b> Environment Agency - Head Office	November 2001	Not Applicable
<b>River Quality Biology Sampling Points</b> Environment Agency - Head Office	July 2012	Annually
<b>River Quality Chemistry Sampling Points</b> Environment Agency - Head Office	July 2012	Annually
<b>Substantiated Pollution Incident Register</b> Environment Agency - North East Region - North East Area Environment Agency - North East Region - Northumbria Area	July 2015 July 2015	Quarterly Quarterly
<b>Water Abstractions</b> Environment Agency - North East Region	July 2015	Quarterly
<b>Water Industry Act Referrals</b> Environment Agency - North East Region	July 2015	Quarterly
<b>Groundwater Vulnerability</b> Environment Agency - Head Office	April 2015	Not Applicable
<b>Drift Deposits</b> Environment Agency - Head Office	January 1999	Not Applicable
<b>Bedrock Aquifer Designations</b> British Geological Survey - National Geoscience Information Service	October 2012	As notified
<b>Superficial Aquifer Designations</b> British Geological Survey - National Geoscience Information Service	January 2015	As notified
<b>Source Protection Zones</b> Environment Agency - Head Office	July 2015	Quarterly

Agency & Hydrological	Version	Update Cycle
<b>Extreme Flooding from Rivers or Sea without Defences</b> Environment Agency - Head Office	August 2015	Quarterly
<b>Flooding from Rivers or Sea without Defences</b> Environment Agency - Head Office	August 2015	Quarterly
<b>Areas Benefiting from Flood Defences</b> Environment Agency - Head Office	August 2015	Quarterly
<b>Flood Water Storage Areas</b> Environment Agency - Head Office	August 2015	Quarterly
<b>Flood Defences</b> Environment Agency - Head Office	August 2015	Quarterly
<b>Detailed River Network Lines</b> Environment Agency - Head Office	March 2012	Annually
<b>Detailed River Network Offline Drainage</b> Environment Agency - Head Office	March 2012	Annually
<b>Surface Water 1 in 30 year Flood Extent</b> Environment Agency - Head Office	October 2013	As notified
<b>Surface Water 1 in 100 year Flood Extent</b> Environment Agency - Head Office	October 2013	As notified
<b>Surface Water 1 in 1000 year Flood Extent</b> Environment Agency - Head Office	October 2013	As notified
<b>Surface Water Suitability</b> Environment Agency - Head Office	October 2013	As notified
Waste	Version	Update Cycle
<b>BGS Recorded Landfill Sites</b> British Geological Survey - National Geoscience Information Service	June 1996	Not Applicable
<b>Historical Landfill Sites</b> Environment Agency - North East Region - North East Area Environment Agency - North East Region - Northumbria Area	May 2015 May 2015	Quarterly Quarterly
<b>Integrated Pollution Control Registered Waste Sites</b> Environment Agency - North East Region	October 2008	Not Applicable
<b>Licensed Waste Management Facilities (Landfill Boundaries)</b> Environment Agency - North East Region - North East Area Environment Agency - North East Region - Northumbria Area	August 2014 August 2014	Quarterly Quarterly
<b>Licensed Waste Management Facilities (Locations)</b> Environment Agency - North East Region - North East Area Environment Agency - North East Region - Northumbria Area	July 2015 July 2015	Quarterly Quarterly
<b>Local Authority Landfill Coverage</b> South Tyneside Metropolitan Borough Council - Planning Department Sunderland City Metropolitan Borough Council - Environmental Health Department	May 2000 May 2000	Not Applicable Not Applicable
<b>Local Authority Recorded Landfill Sites</b> South Tyneside Metropolitan Borough Council - Planning Department Sunderland City Metropolitan Borough Council - Environmental Health Department	May 2000 May 2000	Not Applicable Not Applicable
<b>Registered Landfill Sites</b> Environment Agency - North East Region - Northumbria Area	March 2003	Not Applicable
<b>Registered Waste Transfer Sites</b> Environment Agency - North East Region - Northumbria Area	March 2003	Not Applicable
<b>Registered Waste Treatment or Disposal Sites</b> Environment Agency - North East Region - Northumbria Area	March 2003	Not Applicable

Hazardous Substances	Version	Update Cycle
<b>Control of Major Accident Hazards Sites (COMAH)</b> Health and Safety Executive	June 2015	Bi-Annually
<b>Explosive Sites</b> Health and Safety Executive	June 2015	Bi-Annually
<b>Notification of Installations Handling Hazardous Substances (NIHHS)</b> Health and Safety Executive	November 2000	Not Applicable
<b>Planning Hazardous Substance Enforcements</b> South Tyneside Metropolitan Borough Council - Planning Department Sunderland City Metropolitan Borough Council - Planning	December 2014 March 2014	Annual Rolling Update Annual Rolling Update
<b>Planning Hazardous Substance Consents</b> South Tyneside Metropolitan Borough Council - Planning Department Sunderland City Metropolitan Borough Council - Planning	December 2014 March 2014	Annual Rolling Update Annual Rolling Update
Geological	Version	Update Cycle
<b>BGS 1:625,000 Solid Geology</b> British Geological Survey - National Geoscience Information Service	January 2009	Not Applicable
<b>BGS Estimated Soil Chemistry</b> British Geological Survey - National Geoscience Information Service	January 2010	Annually
<b>BGS Recorded Mineral Sites</b> British Geological Survey - National Geoscience Information Service	May 2015	Bi-Annually
<b>Brine Compensation Area</b> Cheshire Brine Subsidence Compensation Board	August 2011	Not Applicable
<b>Coal Mining Affected Areas</b> The Coal Authority - Mining Report Service	March 2014	As notified
<b>Mining Instability</b> Ove Arup & Partners	October 2000	Not Applicable
<b>Non Coal Mining Areas of Great Britain</b> British Geological Survey - National Geoscience Information Service	July 2014	Not Applicable
<b>Potential for Collapsible Ground Stability Hazards</b> British Geological Survey - National Geoscience Information Service	June 2015	Annually
<b>Potential for Compressible Ground Stability Hazards</b> British Geological Survey - National Geoscience Information Service	June 2015	Annually
<b>Potential for Ground Dissolution Stability Hazards</b> British Geological Survey - National Geoscience Information Service	June 2015	Annually
<b>Potential for Landslide Ground Stability Hazards</b> British Geological Survey - National Geoscience Information Service	June 2015	Annually
<b>Potential for Running Sand Ground Stability Hazards</b> British Geological Survey - National Geoscience Information Service	June 2015	Annually
<b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b> British Geological Survey - National Geoscience Information Service	June 2015	Annually
<b>Radon Potential - Radon Affected Areas</b> British Geological Survey - National Geoscience Information Service	July 2011	As notified
<b>Radon Potential - Radon Protection Measures</b> British Geological Survey - National Geoscience Information Service	July 2011	As notified
Industrial Land Use	Version	Update Cycle
<b>Contemporary Trade Directory Entries</b> Thomson Directories	August 2015	Quarterly
<b>Fuel Station Entries</b> Catalist Ltd - Experian	August 2015	Quarterly



Sensitive Land Use	Version	Update Cycle
<b>Areas of Adopted Green Belt</b> South Tyneside Metropolitan Borough Council - Planning Department Sunderland City Metropolitan Borough Council - Planning	November 201 November 201	As notified As notified
<b>Areas of Unadopted Green Belt</b> South Tyneside Metropolitan Borough Council - Planning Department Sunderland City Metropolitan Borough Council - Planning	November 201 November 201	As notified As notified
<b>Areas of Outstanding Natural Beauty</b> Natural England	October 2015	Bi-Annually
<b>Environmentally Sensitive Areas</b> Natural England	October 2015	Annually
<b>Forest Parks</b> Forestry Commission	April 1997	Not Applicable
<b>Local Nature Reserves</b> Natural England	October 2015	Bi-Annually
<b>Marine Nature Reserves</b> Natural England	October 2015	Bi-Annually
<b>National Nature Reserves</b> Natural England	October 2015	Bi-Annually
<b>National Parks</b> Natural England	August 2015	Bi-Annually
<b>Nitrate Sensitive Areas</b> Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	October 2015	Not Applicable
<b>Nitrate Vulnerable Zones</b> Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	October 2015	Annually
<b>Ramsar Sites</b> Natural England	October 2015	Bi-Annually
<b>Sites of Special Scientific Interest</b> Natural England	October 2015	Bi-Annually
<b>Special Areas of Conservation</b> Natural England	October 2015	Bi-Annually
<b>Special Protection Areas</b> Natural England	October 2015	Bi-Annually

A selection of organisations who provide data within this report

Data Supplier	Data Supplier Logo
Ordnance Survey	
Environment Agency	
Scottish Environment Protection Agency	
The Coal Authority	
British Geological Survey	 <p><b>British Geological Survey</b> NATURAL ENVIRONMENT RESEARCH COUNCIL</p>
Centre for Ecology and Hydrology	 <p><b>Centre for Ecology &amp; Hydrology</b> NATURAL ENVIRONMENT RESEARCH COUNCIL</p>
Natural Resources Wales	
Scottish Natural Heritage	
Natural England	
Public Health England	
Ove Arup	
Peter Brett Associates	

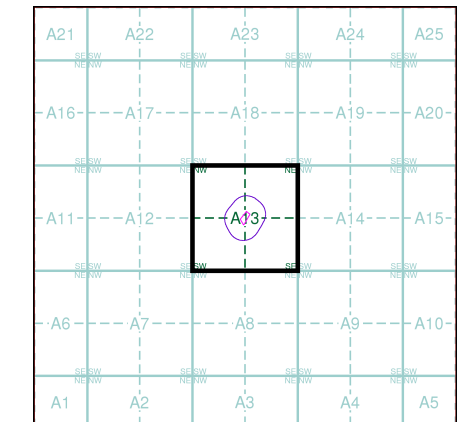
Contact	Name and Address	Contact Details
2	<b>Environment Agency - National Customer Contact Centre (NCCC)</b> PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 08708 506 506 Email: enquiries@environment-agency.gov.uk
3	<b>South Tyneside Metropolitan Borough Council - Environmental Health Department</b> Central Library Building, Prince George Square, South Shields, Tyne And Wear, NE33 2PE	Telephone: 0191 427 1717 Fax: 0191 427 7171 Website: www.s-tyneside-mbc.gov.uk
4	<b>British Geological Survey - Enquiry Service</b> British Geological Survey, Kingsley Dunham Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
5	<b>The Coal Authority - Mining Report Service</b> 200 Lichfield Lane, Mansfield, Nottinghamshire, NG18 4RG	Telephone: 0845 7626848 Email: thecoalauthority@coal.gov.uk
6	<b>South Tyneside Metropolitan Borough Council - Planning Department</b> Town Hall & Civic Offices, Westoe Road, South Shields, Tyne & Wear, NE33 2RL	Telephone: 0191 427 1717 Fax: 0191 427 7171 Website: www.s-tyneside-mbc.gov.uk
7	<b>Sunderland City Metropolitan Borough Council - Planning</b> PO Box 107, Civic Centre, Sunderland, Tyne & Wear, SR2 7DN	Telephone: 0191 553 1000 Fax: 0191 553 1099 Website: www.sunderland.gov.uk
8	<b>Natural England</b> Suite D, Unex House, Bourges Boulevard, Peterborough, Cambridgeshire, PE1 1NG	Telephone: 0845 600 3078 Email: enquiries@naturalengland.org.uk Website: www.naturalengland.org.uk
9	<b>Environment Agency - Head Office</b> Rio House, Waterside Drive, Aztec West, Almondsbury, Bristol, Avon, BS32 4UD	Telephone: 01454 624400 Fax: 01454 624409
-	<b>Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards</b> Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@phe.gov.uk Website: www.ukradon.org
-	<b>Landmark Information Group Limited</b> Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk

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

**Appendix E**  
**Notes on Limitations**

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

**Site Sensitivity Map - Segment A13**

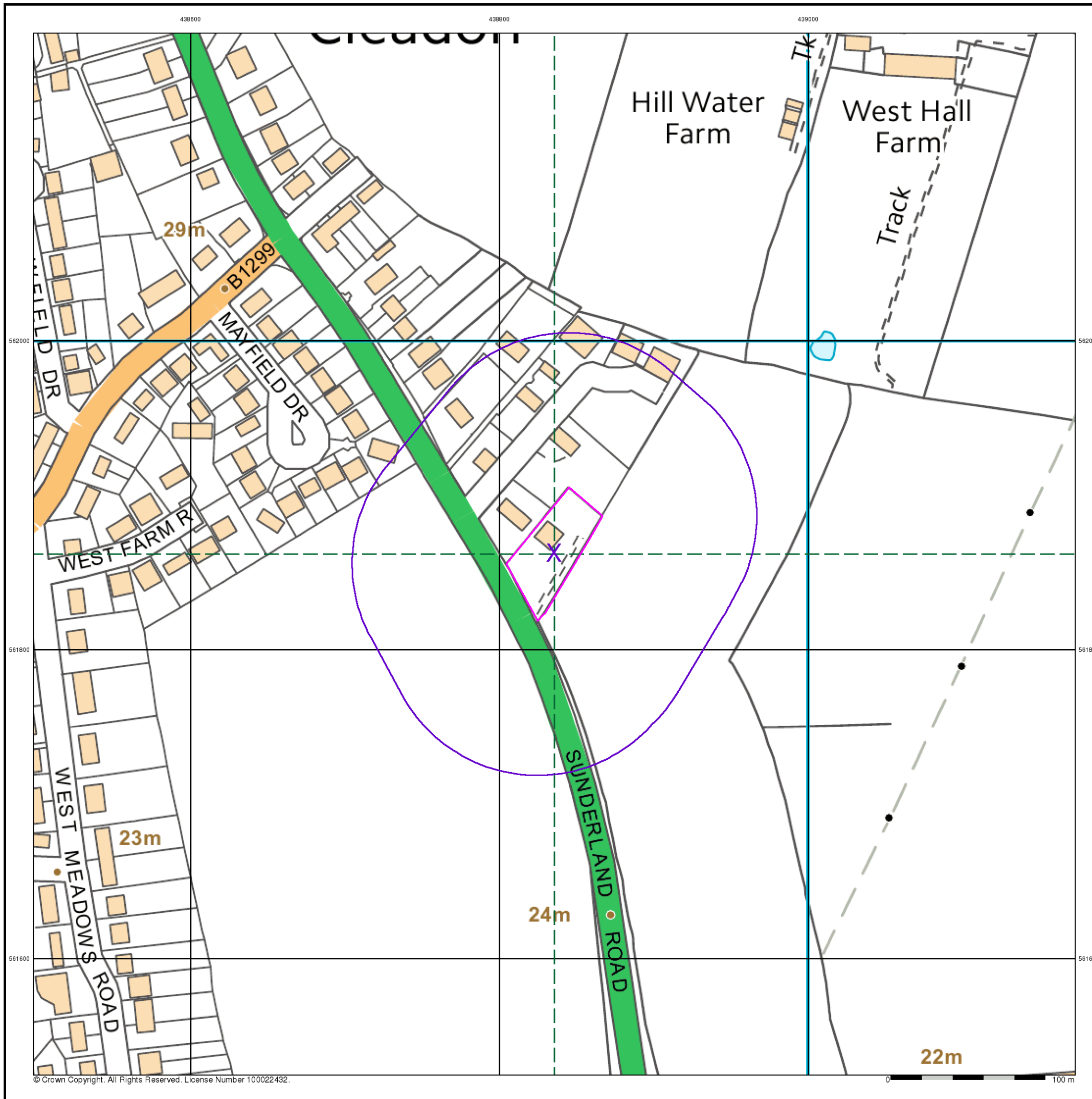


**Order Details**

Order Number: 74673377\_1\_1  
 Customer Ref: S151122  
 National Grid Reference: 438840, 561860  
 Slice: A  
 Site Area (Ha): 0.25

**Site Details**

51 Sunderland Road, Cleadon Village, SUNDERLAND, SR6 7UW



### General

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

### Agency and Hydrological

- Contaminated Land Register Entry or Notice (Location)
- Contaminated Land Register Entry or Notice
- ▲ Enforcement or Prohibition Notice
- ▲ Integrated Pollution Control
- Integrated Pollution Prevention and Control
- ▲ Local Authority Pollution Prevention and Control Enforcement
- Pollution Incident to Controlled Waters
- ▼ Prosecution Relating to Authorised Processes
- ◆ Prosecution Relating to Controlled Waters
- ▲ Registered Radioactive Substance
- River Network or Water Feature
- + River Quality Sampling Point
- Substantiated Pollution Incident Register
- ◆ Water Abstraction
- ◆ Water Industry Act Referral

### Waste

- ▼ BGS Recorded Landfill Site (Location)
- BGS Recorded Landfill Site
- EA Historic Landfill (Buffered Point)
- EA Historic Landfill (Polygon)
- ▲ Integrated Pollution Control Registered Waste Site
- Licensed Waste Management Facility (Landfill Boundary)
- Licensed Waste Management Facility (Location)
- Local Authority Recorded Landfill Site (Location)
- Local Authority Recorded Landfill Site
- Registered Landfill Site
- ▲ Registered Landfill Site (Location)
- Registered Landfill Site (Point Buffered to 100m)
- Registered Landfill Site (Point Buffered to 250m)
- Registered Waste Transfer Site (Location)
- Registered Waste Transfer Site
- Registered Waste Treatment or Disposal Site (Location)
- Registered Waste Treatment or Disposal Site

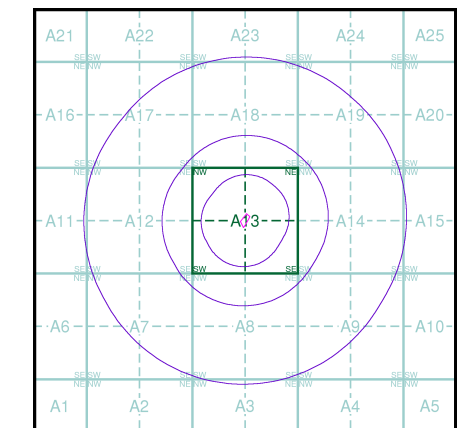
### Geological

- ▼ BGS Recorded Mineral Site

### Industrial Land Use

- ★ Contemporary Trade Directory Entry
- ★ Fuel Station Entry
- X COMAH Site
- X Explosive Site
- X NIHS Site
- X Planning Hazardous Substance Consent
- X Planning Hazardous Substance Enforcement

### Site Sensitivity Map - Slice A



### Order Details

Order Number: 74673377\_1\_1  
 Customer Ref: S151122  
 National Grid Reference: 438840, 561860  
 Slice: A  
 Site Area (Ha): 0.25  
 Search Buffer (m): 1000

### Site Details

51 Sunderland Road, Cleadon Village, SUNDERLAND, SR6 7UW



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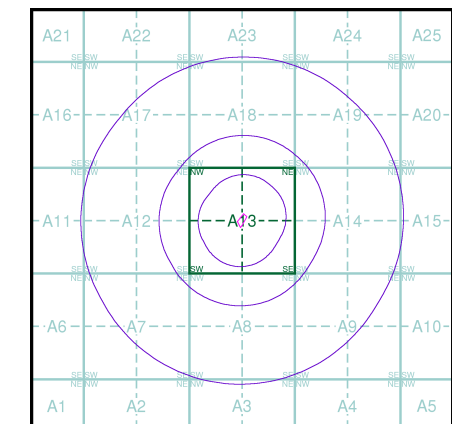
**General**

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

**Agency and Hydrological (Flood)**

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

**Flood Map - Slice A**

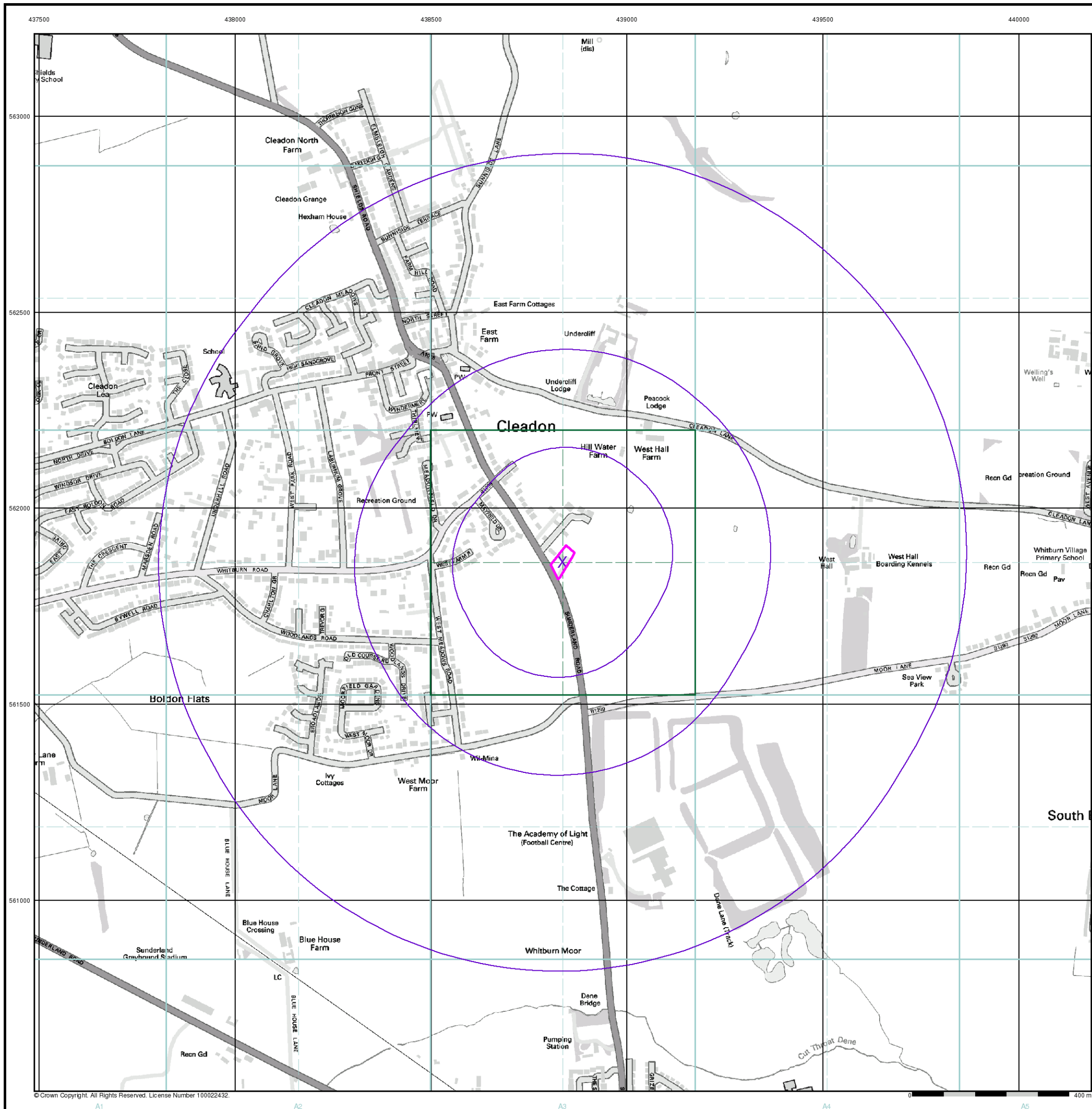


**Order Details**

Order Number: 74673377\_1\_1  
 Customer Ref: S151122  
 National Grid Reference: 438840, 561860  
 Slice: A  
 Site Area (Ha): 0.25  
 Search Buffer (m): 1000






**Site Details**

51 Sunderland Road, Cleadon Village, SUNDERLAND, SR6 7UW








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**General**

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

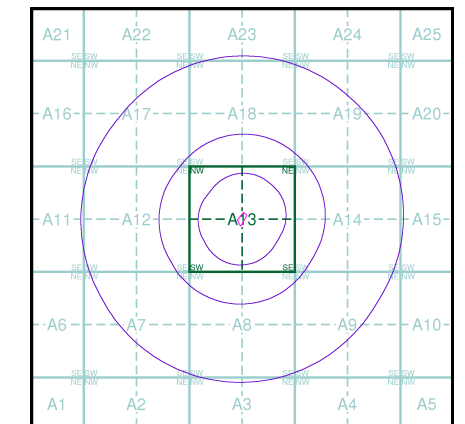
**Agency and Hydrological (Boreholes)**

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

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

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

**Borehole Map - Slice A**

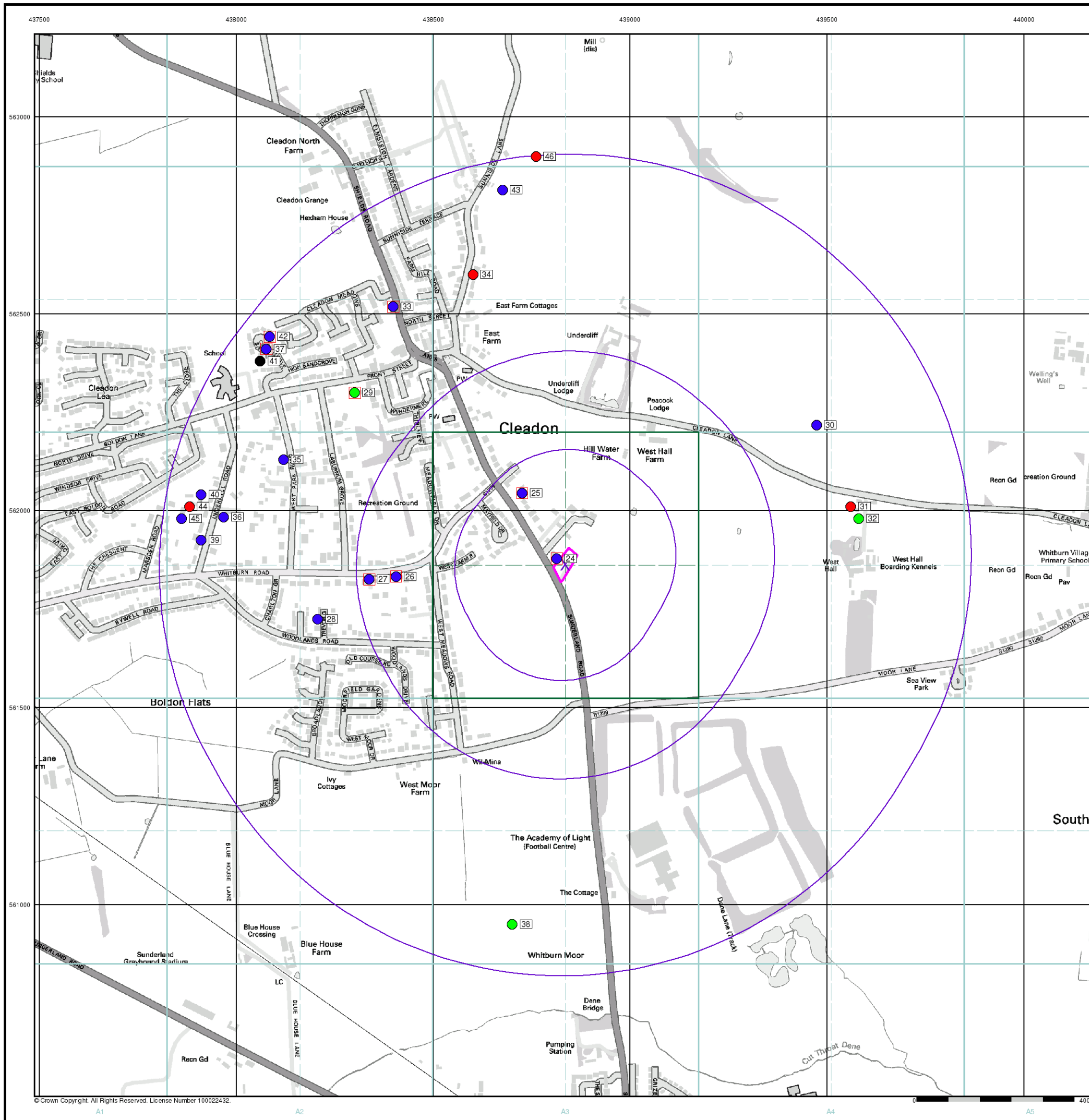


**Order Details**

Order Number: 74673377\_1\_1  
 Customer Ref: S151122  
 National Grid Reference: 438840, 561860  
 Slice: A  
 Site Area (Ha): 0.25  
 Search Buffer (m): 1000

**Site Details**

51 Sunderland Road, Cleadon Village, SUNDERLAND, SR6 7UW



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### General

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

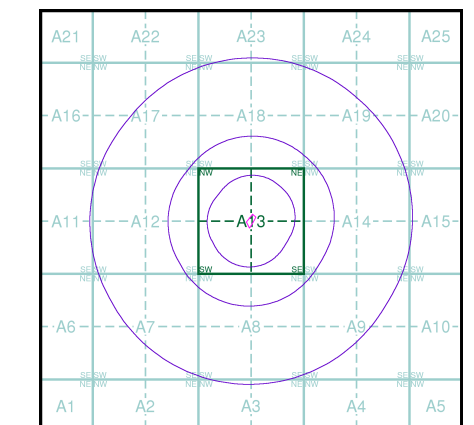
### Detailed River Network Data

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

### Contours (height in metres)

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

### EANRW Detailed River Network Map - Slice A



### Order Details

Order Number: 74673377\_1\_1  
 Customer Ref: S151122  
 National Grid Reference: 438840, 561860  
 Slice: A  
 Site Area (Ha): 0.25  
 Search Buffer (m): 1000




### Site Details

51 Sunderland Road, Cleadon Village, SUNDERLAND, SR6 7UW



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**General**

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

**Risk of Flooding from Surface Water**

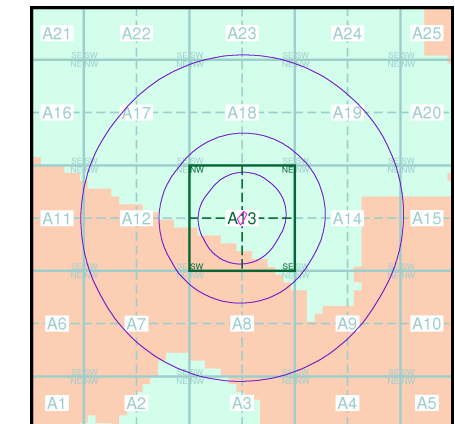
-  High - 30 Year Return
-  Medium - 100 Year Return
-  Low - 1000 Year Return

**Suitability**

See the suitability map below

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

**EANRW Suitability Map - Slice A**

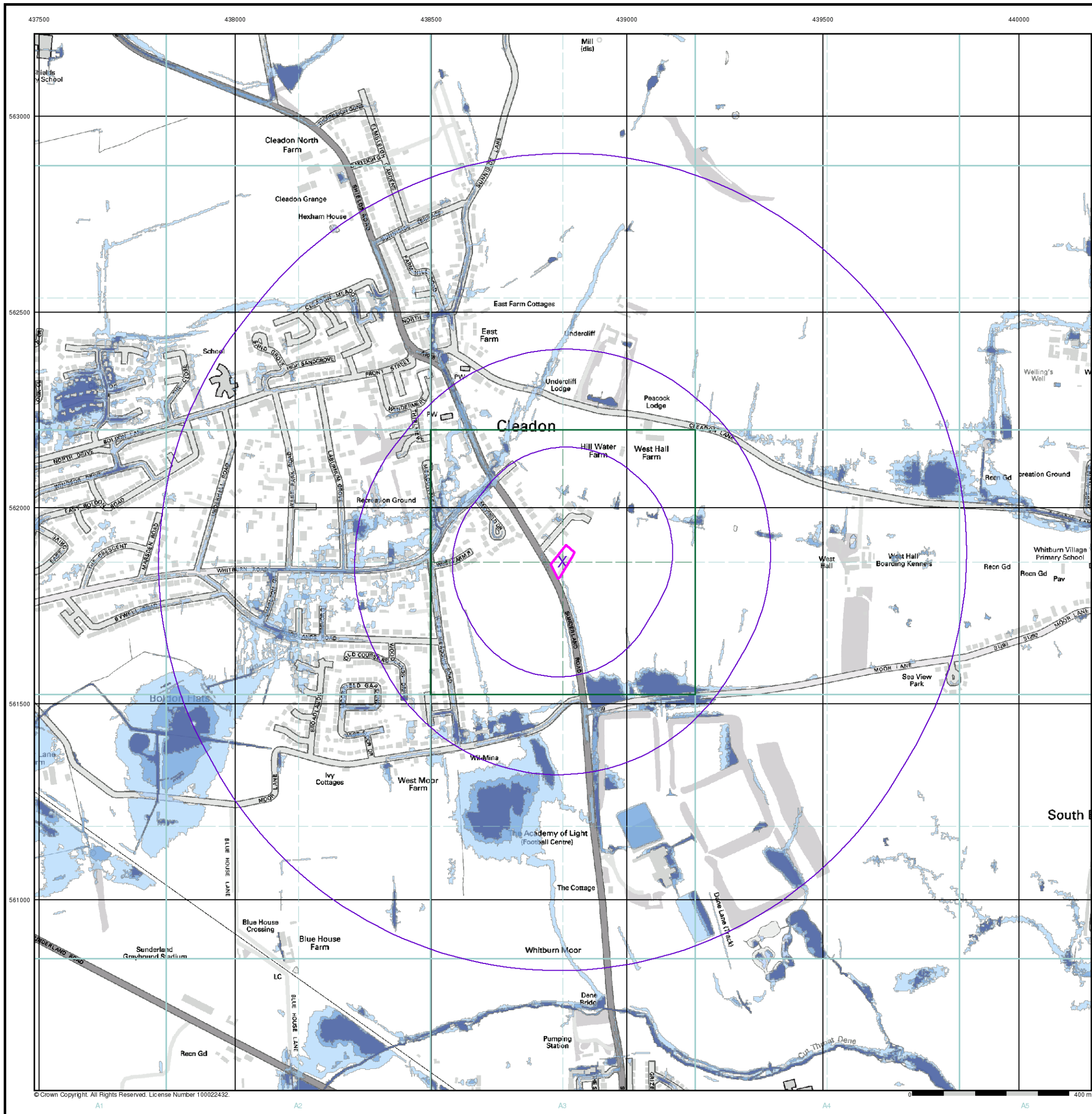


**Order Details**

Order Number: 74673377\_1\_1  
 Customer Ref: S151122  
 National Grid Reference: 438840, 561860  
 Slice: A  
 Site Area (Ha): 0.25  
 Search Buffer (m): 1000

**Site Details**

51 Sunderland Road, Cleadon Village, SUNDERLAND, SR6 7UW



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**Appendix D  
Mining Report**

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Issued by:

The Coal Authority, Property Search Services, 200 Lichfield Lane, Berry Hill, Mansfield, Nottinghamshire, NG18 4RG  
Website: www.groundstability.com Phone: 0345 762 6848 DX 716176 MANSFIELD 5

**LANDMARK INFORMATION GROUP  
LIMITED  
SOWTON INDUSTRIAL ESTATE  
ABBAY COURT  
UNIT 5/7 EAGLE WAY  
EXETER  
DEVON  
EX2 7HY**

Our reference: **51001033430001**  
Your reference: **74673377\_2|**  
Date of your enquiry: **06 November 2015**  
Date we received your enquiry: **06 November 2015**  
Date of issue: **06 November 2015**

This report is for the property described in the address below and the attached plan.

**Non-Residential Coal Authority Mining Report**

**51 SUNDERLAND ROAD, CLEADON VILLAGE, SUNDERLAND, TYNE & WEAR,**

This report is based on and limited to the records held by, the Coal Authority, and the Cheshire Brine Subsidence Compensation Board's records, at the time we answer the search.

Coal mining	See comments below
Brine Compensation District	No

***Information from the Coal Authority***

**Underground coal mining**

**Past**

The property is in the likely zone of influence from workings in 4 seams of coal at 310m to 450m depth, and last worked in 1978.

Any ground movement from these coal workings should have stopped by now.

**Present**

The property is not in the likely zone of influence of any present underground coal workings.

**Future**

The property is not in an area for which the Coal Authority is determining whether to grant a licence to remove coal using underground methods.

The property is not in an area for which a licence has been granted to remove or otherwise work coal using underground methods.

The property is not in an area that is likely to be affected at the surface from any planned future workings.

However, reserves of coal exist in the local area which could be worked at some time in the future.

No notice of the risk of the land being affected by subsidence has been given under section 46 of the Coal Mining Subsidence Act 1991.

### **Mine entries**

There are no known coal mine entries within, or within 20 metres of, the boundary of the property.

### **Coal mining geology**

The Authority is not aware of any evidence of damage arising due to geological faults or other lines of weakness that have been affected by coal mining.

### **Opencast coal mining**

#### **Past**

The property is not within the boundary of an opencast site from which coal has been removed by opencast methods.

#### **Present**

The property does not lie within 200 metres of the boundary of an opencast site from which coal is being removed by opencast methods.

#### **Future**

The property is not within 800 metres of the boundary of an opencast site for which the Coal Authority is determining whether to grant a licence to remove coal by opencast methods.

The property is not within 800 metres of the boundary of an opencast site for which a licence to remove coal by opencast methods has been granted.

### **Coal mining subsidence**

The Coal Authority has not received a damage notice or claim for the subject property, or any property within 50 metres, since 31st October 1994.

There is no current Stop Notice delaying the start of remedial works or repairs to the property.

The Authority is not aware of any request having been made to carry out preventive works before coal is worked under section 33 of the Coal Mining Subsidence Act 1991.

### **Mine gas**

There is no record of a mine gas emission requiring action by the Coal Authority within the boundary of the property.

### **Hazards related to coal mining**

The property has not been subject to remedial works, by or on behalf of the Authority, under its Emergency Surface Hazard Call Out procedures.

### **Withdrawal of support**

The property is not in an area for which a notice of entitlement to withdraw support has been published.

The property is not in an area for which a notice has been given under section 41 of the Coal Industry Act 1994, revoking the entitlement to withdraw support.

### **Working facilities orders**

The property is not in an area for which an Order has been made under the provisions of the Mines (Working Facilities and Support) Acts 1923 and 1966 or any statutory modification or amendment thereof.

### **Payments to owners of former copyhold land**

The property is not in an area for which a relevant notice has been published under the Coal Industry Act 1975/Coal Industry Act 1994.

## **Information from the Cheshire Brine Subsidence Compensation Board**

The property lies outside the Cheshire Brine Compensation District.

### **Additional Remarks**

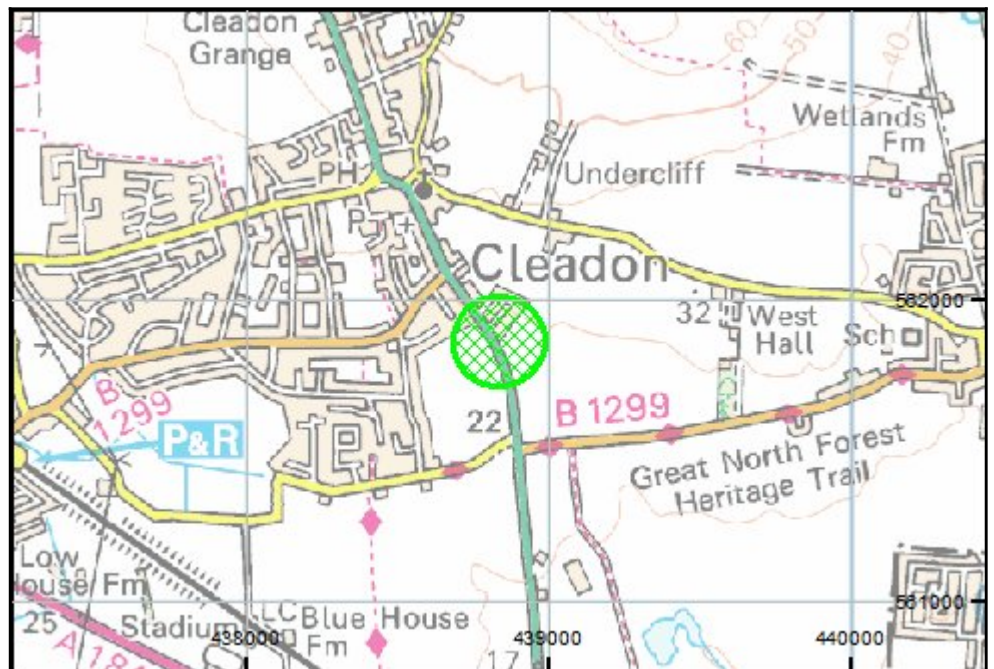
Information provided by the Coal Authority in this report is compiled in response to the Law Society's Con29M Coal Mining and Brine Subsidence Claim enquiries. The said enquiries are protected by copyright owned by the Law Society of 113 Chancery Lane, London WC2A 1PL. Please note that Brine Subsidence Claim enquiries are only relevant for England and Wales. This report is prepared in accordance with the Law Society's Guidance Notes 2006, the User Guide 2006 and the Coal Authority and Cheshire Brine Board's Terms and Conditions applicable at the time the report was produced.

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## Location map



Approximate position of property

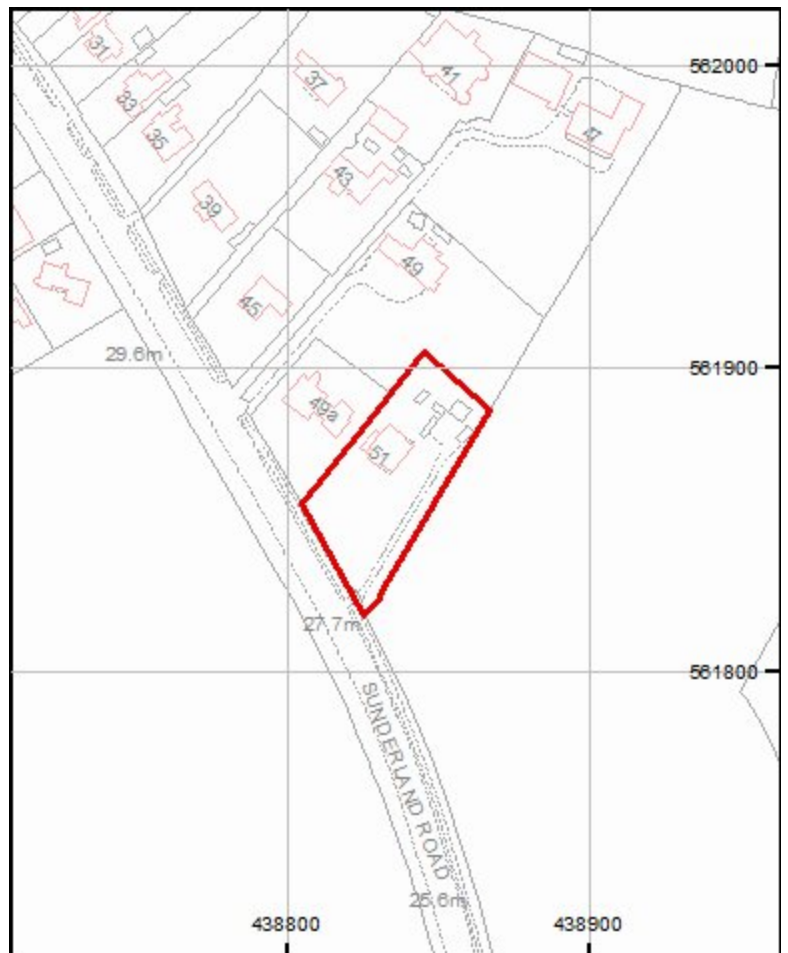


## Enquiry boundary

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## Key

Approximate position of enquiry boundary shown



**♣Solmek conditions of offer, notes on limitations & basis for contract (ref: version1/2015)**

These conditions accompany our tender and supercede any previous conditions issued. Solmek will prepare a report solely for the use of the Client (the party invoiced) and its agent(s). No reliance should be placed on the contents of this report, in whole or in part by 3<sup>rd</sup> parties. The report, its content and format and associated data are copyright, and the property of Solmek. Photocopying of part or all of the contents, transfer or reproduction of any kind is forbidden without written permission from Solmek. A charge may be levied against such approval, the same to be made at the discretion of Solmek. Solmek was a trading name of Hymas Geoenvironmental Ltd.

Solmek cannot be held liable and do not warrant, or otherwise guarantee the validity of information provided by third parties and subsequently used in our reports. Solmek are not responsible for the action negligent of otherwise of subcontractors or third parties.

Site investigation is a process of sampling. The scope and size of an investigation may be considered proportional to levels of confidence regarding the ground and groundwater conditions. The exploratory holes undertaken investigate only a small volume of the ground in relation to the overall size of the site, and can only provide a general indication of site conditions. The opinions provided and recommendations given in this report are based on the ground conditions as encountered within each of the exploratory holes. There may be different ground conditions elsewhere on the site which have not been identified by this investigation and which therefore have not been taken into account in this report. Reports are generally subject to the comments of the local authority and Environment Agency. The comments made on groundwater conditions are based on observations made at the time that site work was carried out. It should be noted that mobile contamination, ground gas levels and groundwater levels may vary owing to seasonal, tidal and/or weather related effects. Solmek cannot be held liable for any unrecorded or unforeseen obstructions between exploratory boreholes and trial pits. This includes instances where previous structures on the site (buried man made structures) or the presence of boulder clay (cobbles and/or boulder obstructions) have been anticipated. All types of piling operations should make allowance for obstructions within the construction budget to accommodate this. Unrecorded ancient mining may occur anywhere where seams that have been worked and influence the rock and soil above. Dissolution cavities can occur where gypsum or chalk is present. Rotary drilling is the recommended technique to prove the integrity of the rock.

Where the scope of the investigation is limited via access to information, time constraints, equipment limitations, testing, interpretation or by the client or his agents budgetary constraints, elements not set out in the proposal and excluded from the report are deemed to be omitted from the scope of the investigation.

Desk studies are generally prepared in accordance with RICS guidelines. Environmental site investigations are generally undertaken as 'exploratory investigations' in accordance with the definitions provided in paragraph 5.4 of BS 10175:2001 in order to confirm the conceptual assumptions. You are advised to familiarize yourself with the typical scope of such an investigation. No pumping of water will be undertaken unless a licence or facilities/equipment have been arranged by others.

Where the type, number or/and depth of exploratory hole is specified by others, Solmek cannot and will not be responsible for any subsequent shortfall or inadequacy in data, and any consequent shortfall in interpretation of environmental and geotechnical aspects which may be required at a later date in order to facilitate the design of permanent or temporary works.

All information acquired by Solmek in the course of investigation is the property of Solmek, and, only also becomes the joint property of the Client only on the complete settlement of all invoices relating to the project. Solmek reserve the right to use the information in commercial tendering and marketing, unless the Client expressly wishes otherwise in writing. The quoted rates do not include VAT, and payment terms are 30 days from dispatch of invoice from our offices. Quotes are subject to a site visit.

We have allowed for 1 mobilisation and normal working hours unless otherwise stated. The scope of the investigation may be reviewed following the desk study and/or fieldwork. The presence or otherwise of Japanese Knotweed or other invasive plants can be difficult to identify especially during winter months. If Japanese Knotweed or other invasive species are suspect, it should be confirmed by an ecologist. We have not allowed for acquiring services information, and cannot be responsible for damage to underground services or pipes not shown to us or not clearly shown on plans. Costs incurred will be passed on to you, and in commissioning Solmek you understand and accept that you/your agent have a contractual relationship with Solmek & you accept this. Our rates assume unobstructed, reasonably level and firm access to the exploratory positions and adequate clear working areas and headroom. We have priced on the basis that you or your client have the necessary permissions, wayleaves and approvals to access land. All boreholes and pits are backfilled with arisings except where gas monitoring pipes are installed with stopcock covers. Solmek are not responsible for any uneven surfaces as a result of siteworks and rutting and backfilled excavations may require re-levelling and/or making good by others after fieldwork is complete, and Solmek has not allowed for this. No price has been provided or requested for a return visit to remove pipework and covers. Hourly rates apply to consultancy only and do not include expenses unless otherwise shown. If warranties are required, legal costs incurred will be passed on to you assuming Solmek agree to complete such warranties, modified or otherwise and you understand and agree to pay all costs.

We reserve the right to pursue full payment of the invoice prior to release of any information including reports. We advise you/your client that we may elect to pursue our statutory rights under late payment legislation, and will apply 8% to the base rate for unreasonably late payments. Solmek are exempt from the CIS Scheme. Solmek offer to undertake work only in strict accordance with conditions covered by our current insurances, which are available for inspection. Solmek are not responsible for acts, negligent or otherwise of subcontractors and as a matter of policy cannot indemnify any other parties. Professional indemnity Insurance is limited to ten times the invoice net total except where stated otherwise by Solmek. Solmek give notice that consequential loss as a direct or indirect result of Solmek's activities or omission of the same are excluded.