

# **Appendix B**

## Photographic Plates



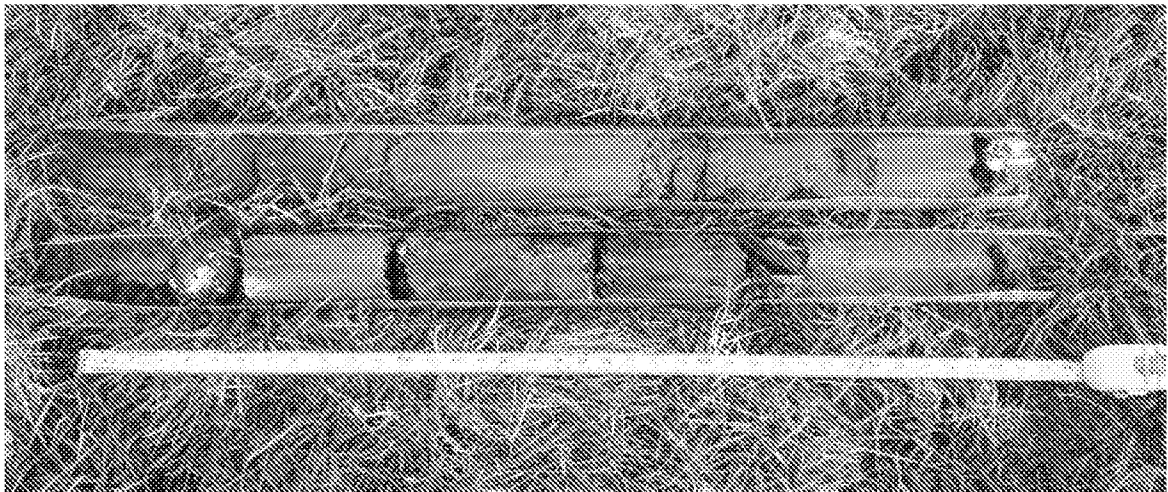
View of site looking east.



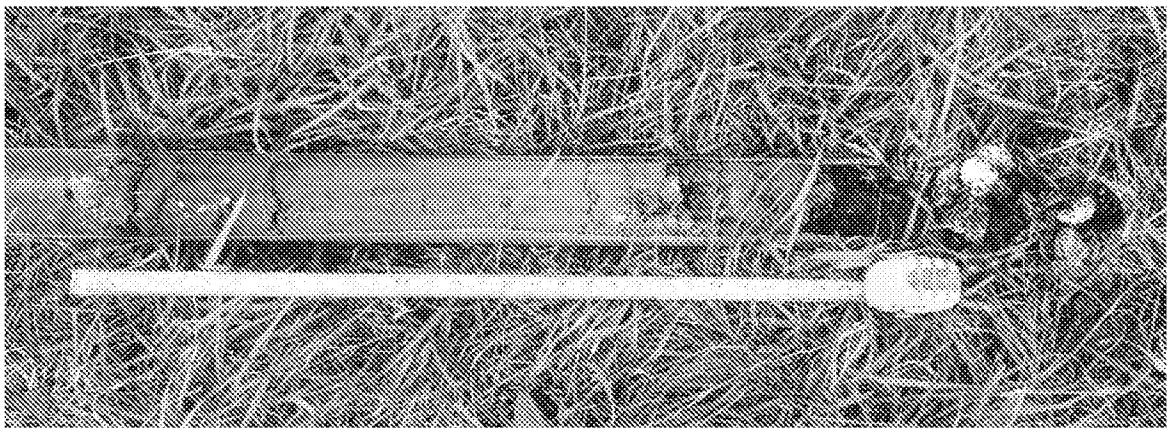
View of northern end of eastern boundary.



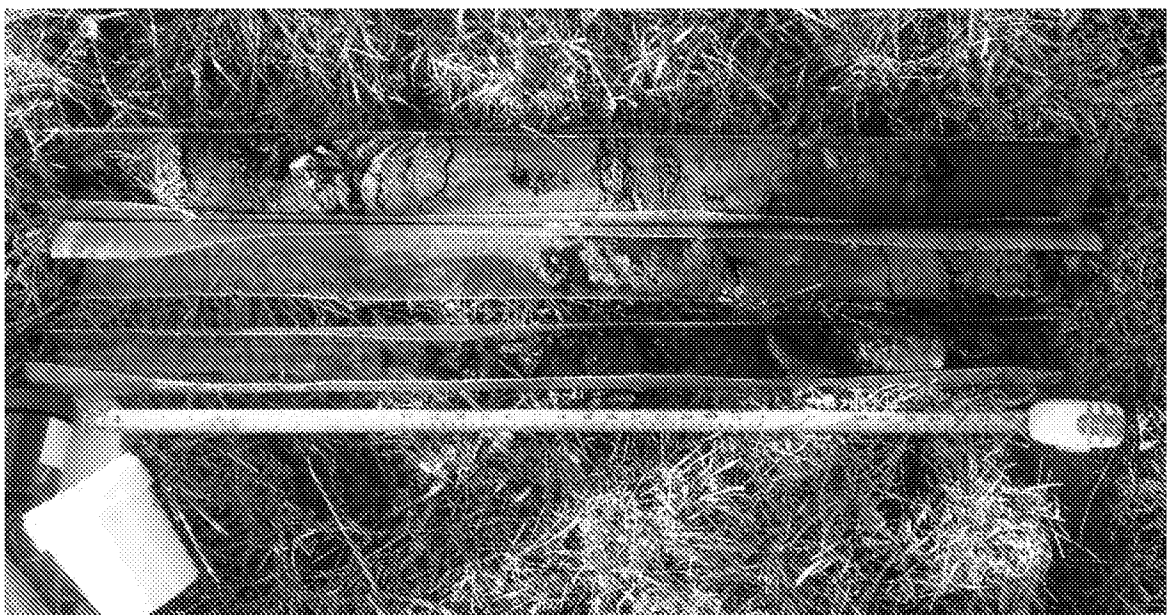
View of site looking west from north east corner of site.



WS1



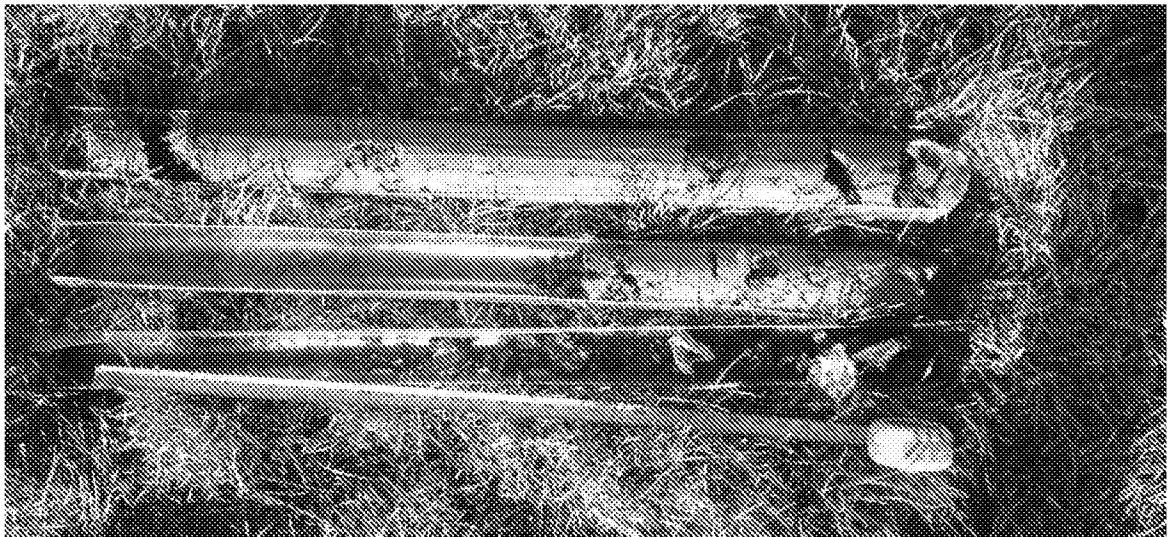
WS2



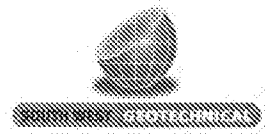
WS3



WS4



WS5



# **Appendix C**

## **Geotechnical Laboratory Test Results**



## Summary of Index Property Test Results

Job: Brookbarn Farm  
Client: Anesco

Job No: 6716  
Client Job No: N/K

| Sample Reference | Natural MC (%) | Liquid Limit (%) | Plastic Limit (%) | Plasticity Index (%) | % Passing .425mm | Modified Plasticity Index (%) | Preparation Method | Description/ Remarks                          |
|------------------|----------------|------------------|-------------------|----------------------|------------------|-------------------------------|--------------------|-----------------------------------------------|
| WS1 1.50m (D)    | 28.5           | 35               | 16                | 19                   | 58.1             | 11                            | Wet Sieve          | Brown/grey silty very sandy/gravelly CLAY     |
| WS2 0.50m (D)    | 21.3           | 46               | 22                | 24                   | 98.7             | 23                            | Wet Sieve          | Yellow silty/sandy slightly gravelly CLAY     |
| WS4 1.00m (D)    | 14.9           | 27               | 18                | 9                    | 76.1             | 7                             | Wet Sieve          | Brown very silty/sandy CLAY                   |
| WS5 2.00m (D)    | 20.6           | 41               | 26                | 15                   | 55.8             | 8                             | Wet Sieve          | Brown silty very sandy slightly gravelly CLAY |

Tests carried out in accordance with Clauses 3.2, 4.3, 5.3 and 5.4 of BS1377: Part 2: 1990

Modified Plasticity Index is defined in NHBC Chapter 4.2 as the PI multiplied by the percentage of particles passing the .425mm sieve.

Non-Modified Plasticity Indices plotted on the attached chart.

Prepared By: LC

Date: 06/01/2015

Processed By: MD

Date: 08/01/2015

Tested By: JC

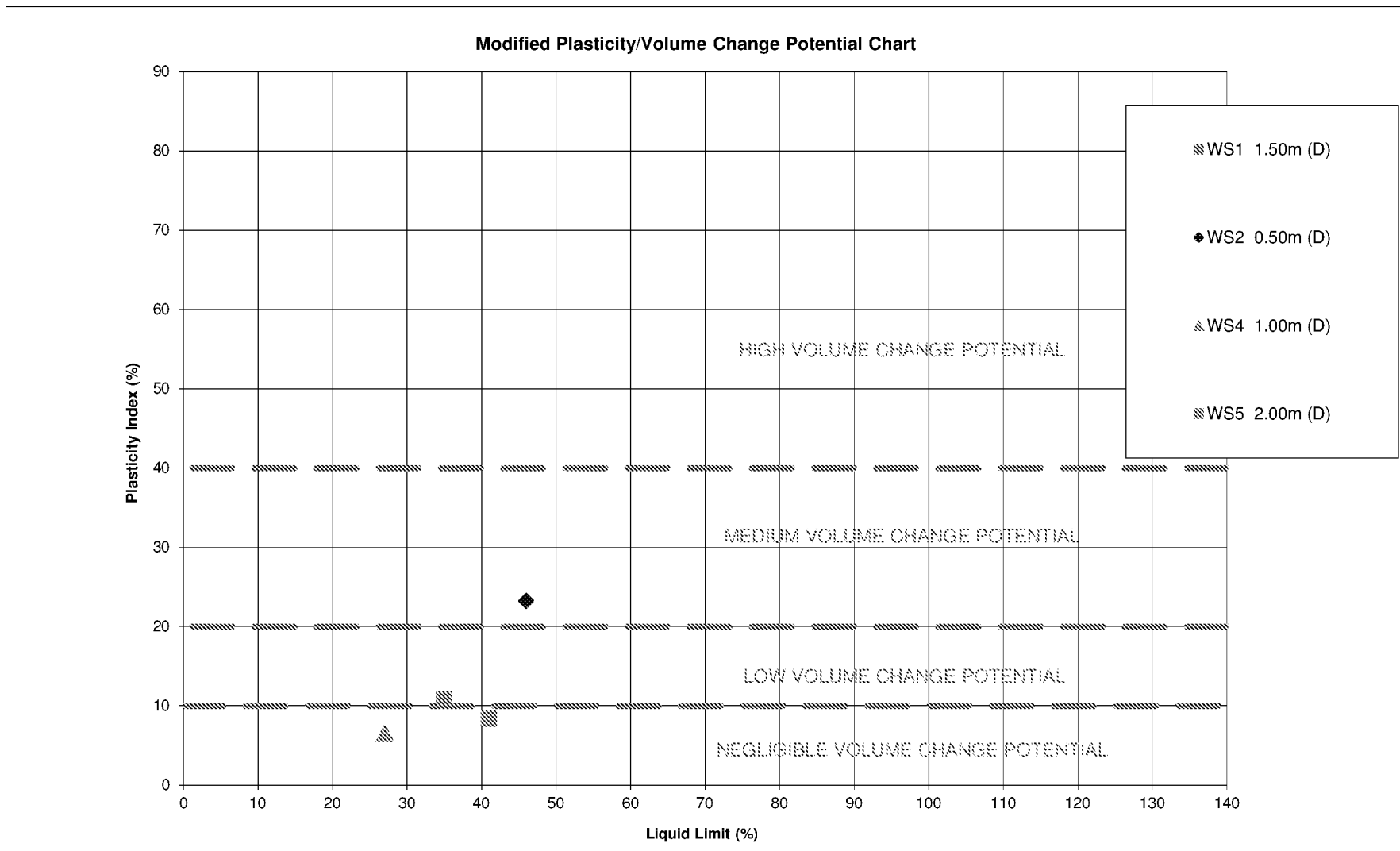
Date: 07/01/2015

Checked By: DA

Date: 08/01/2015

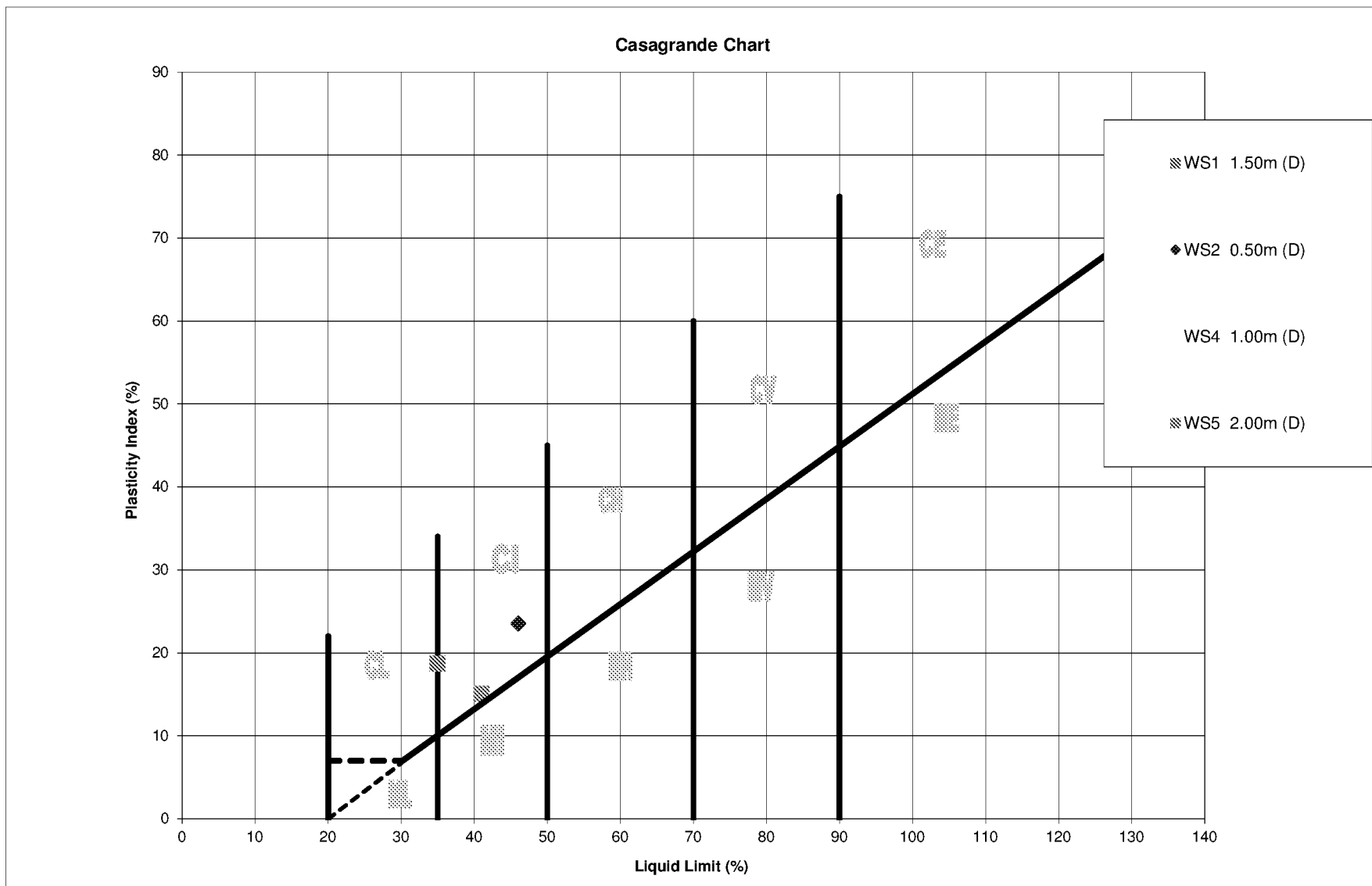


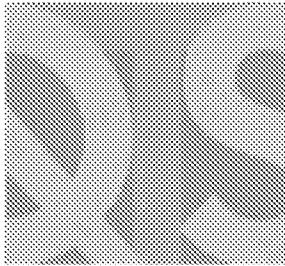
## Summary of Index Property Test Results





## Summary of Index Property Test Results

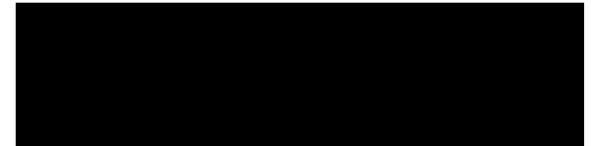




Neil Farrow  
South West Geotechnical Ltd  
Unit 3 Brooklands  
Howden Road  
Tiverton  
Devon  
EX16 5HW



**QTS Environmental Ltd**  
Unit 1  
Rose Lane Industrial Estate  
Rose Lane  
Lenham Heath  
Kent



## **QTS Environmental Report No: 15-27659**

**Site Reference:** Brookbarn Farm

**Project / Job Ref:** 6716

**Order No:** None Supplied

**Sample Receipt Date:** 07/01/2015

**Sample Scheduled Date:** 07/01/2015

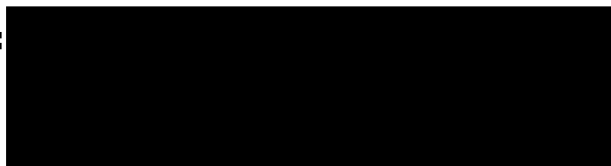
**Report Issue Number:** 1

**Reporting Date:** 13/01/2015

**Authorised by:**

Russell Jarvis  
Director

**On behalf of QTS Environmental Ltd**

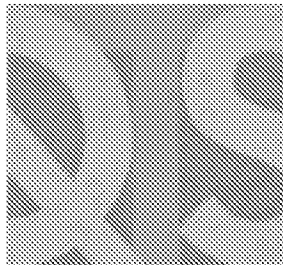


**Authorised by:**

Kevin Old  
Director

**On behalf of QTS Environmental Ltd**





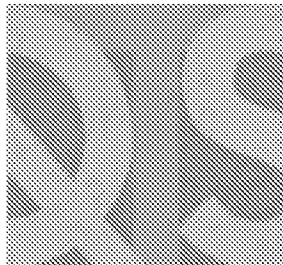
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Unit 1, Rose Lane Industrial Estate  
Rose Lane  
Lenham Heath  
Maidstone  
Kent ME17 2JN



| Soil Analysis Certificate             |                 |               |               |               |               |               |
|---------------------------------------|-----------------|---------------|---------------|---------------|---------------|---------------|
| QTS Environmental Report No: 15-27659 | Date Sampled    | 11/12/14      | 11/12/14      | 11/12/14      | 11/12/14      | 11/12/14      |
| South West Geotechnical Ltd           | Time Sampled    | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Site Reference: Brookbarn Farm        | TP / BH No      | WS1           | WS2           | WS3           | WS3           | WS4           |
| Project / Job Ref: 6716               | Additional Refs | None Supplied | None Supplied | None Supplied | None Supplied | None Supplied |
| Order No: None Supplied               | Depth (m)       | 1.00          | 1.00          | 1.00          | 1.50          | 2.00          |
| Reporting Date: 13/01/2015            | QTSE Sample No  | 130938        | 130939        | 130940        | 130941        | 130942        |

| Determinand               | Unit     | RL     | Accreditation |     |      |     |      |     |
|---------------------------|----------|--------|---------------|-----|------|-----|------|-----|
| pH                        | pH Units | N/a    | MCERTS        | 7.3 | 7.4  | 7.0 | 7.3  | 7.0 |
| W/S Sulphate as SO4 (2:1) | g/l      | < 0.01 | MCERTS        |     | 0.08 |     | 0.96 |     |

Analytical results are expressed on a dry weight basis where samples are dried at less than 30°C  
Analysis carried out on the dried sample is corrected for the stone content  
Subcontracted analysis <sup>(S)</sup>



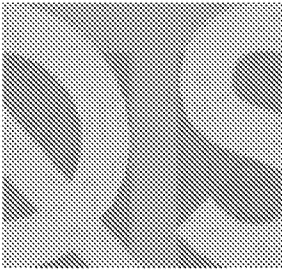
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Rose Lane  
Lenham Heath  
Maidstone  
Kent ME17 2JN



| Soil Analysis Certificate             |                 |               |  |  |  |  |
|---------------------------------------|-----------------|---------------|--|--|--|--|
| QTS Environmental Report No: 15-27659 | Date Sampled    | 11/12/14      |  |  |  |  |
| South West Geotechnical Ltd           | Time Sampled    | None Supplied |  |  |  |  |
| Site Reference: Brookbarn Farm        | TP / BH No      | WS5           |  |  |  |  |
| Project / Job Ref: 6716               | Additional Refs | None Supplied |  |  |  |  |
| Order No: None Supplied               | Depth (m)       | 1.00          |  |  |  |  |
| Reporting Date: 13/01/2015            | QTSE Sample No  | 130943        |  |  |  |  |

| Determinand               | Unit     | RL     | Accreditation |      |  |  |  |
|---------------------------|----------|--------|---------------|------|--|--|--|
| pH                        | pH Units | N/a    | MCERTS        | 7.4  |  |  |  |
| W/S Sulphate as SO4 (2:1) | g/l      | < 0.01 | MCERTS        | 0.05 |  |  |  |

Analytical results are expressed on a dry weight basis where samples are dried at less than 30°C  
Analysis carried out on the dried sample is corrected for the stone content  
Subcontracted analysis <sup>(S)</sup>



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| Soil Analysis Certificate - Sample Descriptions |  |
|-------------------------------------------------|--|
| QTS Environmental Report No: 15-27659           |  |
| South West Geotechnical Ltd                     |  |
| Site Reference: Brookbarn Farm                  |  |
| Project / Job Ref: 6716                         |  |
| Order No: None Supplied                         |  |
| Reporting Date: 13/01/2015                      |  |

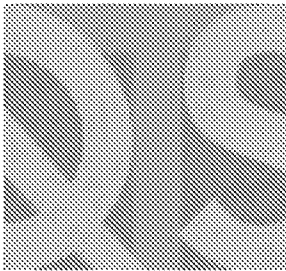
| QTSE Sample No | TP / BH No | Additional Refs | Depth (m) | Moisture Content (%) | Sample Matrix Description |
|----------------|------------|-----------------|-----------|----------------------|---------------------------|
| \$ 130938      | WS1        | None Supplied   | 1.00      | 13.6                 | Brown clay                |
| \$ 130939      | WS2        | None Supplied   | 1.00      | 19.3                 | Brown clay                |
| \$ 130940      | WS3        | None Supplied   | 1.00      | 26.7                 | Brown clay                |
| \$ 130941      | WS3        | None Supplied   | 1.50      | 21                   | Brown clay with rubble    |
| \$ 130942      | WS4        | None Supplied   | 2.00      | 16.6                 | Light brown clay          |
| \$ 130943      | WS5        | None Supplied   | 1.00      | 13                   | Light brown clay          |

Moisture content is part of procedure E003 & is not an accredited test

Insufficient Sample <sup>I/S</sup>

Unsuitable Sample <sup>U/S</sup>

\$ samples exceeded recommended holding times



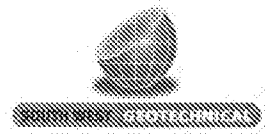
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**Rose Lane**  
**Lenham Heath**  
**Maidstone**  
**Kent ME17 2JN**



| Soil Analysis Certificate - Methodology & Miscellaneous Information |  |
|---------------------------------------------------------------------|--|
| QTS Environmental Report No: 15-27659                               |  |
| South West Geotechnical Ltd                                         |  |
| Site Reference: Brookbarn Farm                                      |  |
| Project / Job Ref: 6716                                             |  |
| Order No: None Supplied                                             |  |
| Reporting Date: 13/01/2015                                          |  |

| Matrix | Analysed On | Determinand                             | Brief Method Description                                                                                                                             | Method No |
|--------|-------------|-----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| Soil   | D           | Boron - Water Soluble                   | Determination of water soluble boron in soil by 2:1 hot water extract followed by ICP-OES                                                            | E012      |
| Soil   | AR          | BTEX                                    | Determination of BTEX by headspace GC-MS                                                                                                             | E001      |
| Soil   | D           | Cations                                 | Determination of cations in soil by aqua-regia digestion followed by ICP-OES                                                                         | E002      |
| Soil   | D           | Chloride - Water Soluble (2:1)          | Determination of chloride by extraction with water & analysed by ion chromatography                                                                  | E009      |
| Soil   | AR          | Chromium - Hexavalent                   | Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry | E016      |
| Soil   | AR          | Cyanide - Complex                       | Determination of complex cyanide by distillation followed by colorimetry                                                                             | E015      |
| Soil   | AR          | Cyanide - Free                          | Determination of free cyanide by distillation followed by colorimetry                                                                                | E015      |
| Soil   | AR          | Cyanide - Total                         | Determination of total cyanide by distillation followed by colorimetry                                                                               | E015      |
| Soil   | D           | Cyclohexane Extractable Matter (CEM)    | Gravimetrically determined through extraction with cyclohexane                                                                                       | E011      |
| Soil   | AR          | Diesel Range Organics (C10 - C24)       | Determination of hexane/acetone extractable hydrocarbons by GC-FID                                                                                   | E004      |
| Soil   | AR          | Electrical Conductivity                 | Determination of electrical conductivity by addition of saturated calcium sulphate followed by electrometric measurement                             | E022      |
| Soil   | AR          | Electrical Conductivity                 | Determination of electrical conductivity by addition of water followed by electrometric measurement                                                  | E023      |
| Soil   | D           | Elemental Sulphur                       | Determination of elemental sulphur by solvent extraction followed by GC-MS                                                                           | E020      |
| Soil   | AR          | EPH (C10 – C40)                         | Determination of acetone/hexane extractable hydrocarbons by GC-FID                                                                                   | E004      |
| Soil   | AR          | EPH Product ID                          | Determination of acetone/hexane extractable hydrocarbons by GC-FID                                                                                   | E004      |
| Soil   | AR          | EPH TEXAS                               | Determination of acetone/hexane extractable hydrocarbons by GC-FID                                                                                   | E004      |
| Soil   | D           | Fluoride - Water Soluble                | Determination of Fluoride by extraction with water & analysed by ion chromatography                                                                  | E009      |
| Soil   | D           | FOC (Fraction Organic Carbon)           | Determination of fraction of organic carbon by oxidising with potassium dichromate followed by titration with iron (II) sulphate                     | E010      |
| Soil   | D           | Loss on Ignition @ 450oC                | Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace                                       | E019      |
| Soil   | D           | Magnesium - Water Soluble               | Determination of water soluble magnesium by extraction with water followed by ICP-OES                                                                | E025      |
| Soil   | D           | Metals                                  | Determination of metals by aqua-regia digestion followed by ICP-OES                                                                                  | E002      |
| Soil   | AR          | Mineral Oil (C10 - C40)                 | Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge                                                  | E004      |
| Soil   | AR          | Moisture Content                        | Moisture content; determined gravimetrically                                                                                                         | E003      |
| Soil   | D           | Nitrate - Water Soluble (2:1)           | Determination of nitrate by extraction with water & analysed by ion chromatography                                                                   | E009      |
| Soil   | D           | Organic Matter                          | Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate                                 | E010      |
| Soil   | AR          | PAH - Speciated (EPA 16)                | Determination of PAH compounds by extraction in acetone and hexane followed by GC-MS with the use of surrogate and internal standards                | E005      |
| Soil   | AR          | PCB - 7 Congeners                       | Determination of PCB by extraction with acetone and hexane followed by GC-MS                                                                         | E008      |
| Soil   | D           | Petroleum Ether Extract (PEE)           | Gravimetrically determined through extraction with petroleum ether                                                                                   | E011      |
| Soil   | AR          | pH                                      | Determination of pH by addition of water followed by electrometric measurement                                                                       | E007      |
| Soil   | AR          | Phenols - Total (monohydric)            | Determination of phenols by distillation followed by colorimetry                                                                                     | E021      |
| Soil   | D           | Phosphate - Water Soluble (2:1)         | Determination of phosphate by extraction with water & analysed by ion chromatography                                                                 | E009      |
| Soil   | D           | Sulphate (as SO4) - Total               | Determination of total sulphate by extraction with 10% HCl followed by ICP-OES                                                                       | E013      |
| Soil   | D           | Sulphate (as SO4) - Water Soluble (2:1) | Determination of sulphate by extraction with water & analysed by ion chromatography                                                                  | E009      |
| Soil   | D           | Sulphate (as SO4) - Water Soluble (2:1) | Determination of water soluble sulphate by extraction with water followed by ICP-OES                                                                 | E014      |
| Soil   | AR          | Sulphide                                | Determination of sulphide by distillation followed by colorimetry                                                                                    | E018      |
| Soil   | D           | Sulphur - Total                         | Determination of total sulphur by extraction with aqua-regia followed by ICP-OES                                                                     | E024      |
| Soil   | AR          | SVOC                                    | Determination of semi-volatile organic compounds by extraction in acetone and hexane followed by GC-MS                                               | E006      |
| Soil   | AR          | Thiocyanate (as SCN)                    | Determination of thiocyanate by extraction in caustic soda followed by acidification followed by addition of ferric nitrate followed by colorimetry  | E017      |
| Soil   | D           | Toluene Extractable Matter (TEM)        | Gravimetrically determined through extraction with toluene                                                                                           | E011      |
| Soil   | D           | Total Organic Carbon (TOC)              | Determination of organic matter by oxidising with potassium dichromate followed by titration with iron (II) sulphate                                 | E010      |
| Soil   | AR          | TPH CWG                                 | Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge                                                  | E004      |
| Soil   | AR          | TPH LQM                                 | Determination of hexane/acetone extractable hydrocarbons by GC-FID fractionating with SPE cartridge                                                  | E004      |
| Soil   | AR          | VOCs                                    | Determination of volatile organic compounds by headspace GC-MS                                                                                       | E001      |
| Soil   | AR          | VPH (C6 - C10)                          | Determination of hydrocarbons C6-C10 by headspace GC-MS                                                                                              | E001      |

**D Dried**  
**AR As Received**



# **Appendix D**

## **Groundsure GeoInsight Report**



# GroundSure GeoInsight

Address: Brookbarn Farm, Courtwick Lane, Wick, Littlehampton, West  
Sussex, BN17 7PE,  
Date: 10 Dec 2014  
Reference: EMS-279596\_378767  
Client: EmapSite

NW N NE



SW S SE

Aerial Photograph Capture date: 13-Sep-2012  
Grid Reference: 501934,104145  
Site Size: 12.51ha

# Contents Page

|                                                                                     |    |
|-------------------------------------------------------------------------------------|----|
| Overview of Findings.....                                                           | 5  |
| 1 Geology.....                                                                      | 8  |
| 1.1 Artificial Ground Map.....                                                      | 8  |
| 1 Geology.....                                                                      | 9  |
| 1.1 Artificial Ground.....                                                          | 9  |
| 1.1.1 Artificial/ Made Ground.....                                                  | 9  |
| 1.1.2 Permeability of Artificial Ground.....                                        | 9  |
| 1.2 Superficial Deposits and Landslips Map.....                                     | 10 |
| 1.2 Superficial Deposits and Landslips.....                                         | 11 |
| 1.2.1 Superficial Deposits/ Drift Geology.....                                      | 11 |
| 1.2.2 Permeability of Superficial Ground.....                                       | 11 |
| 1.2.3 Landslip.....                                                                 | 11 |
| 1.2.4 Landslip Permeability.....                                                    | 11 |
| 1.3 Bedrock and Faults Map.....                                                     | 12 |
| 1.3 Bedrock, Solid Geology & Faults.....                                            | 13 |
| 1.3.1 Bedrock/ Solid Geology.....                                                   | 13 |
| 1.3.2 Permeability of Bedrock Ground.....                                           | 13 |
| 1.3.3 Faults.....                                                                   | 13 |
| 1.4 Radon Data.....                                                                 | 14 |
| 1.4.1 Radon Affected Areas.....                                                     | 14 |
| 1.4.2 Radon Protection.....                                                         | 14 |
| 2 Ground Workings Map.....                                                          | 15 |
| 2 Ground Workings.....                                                              | 16 |
| 2.1 Historical Surface Ground Working Features derived from Historical Mapping..... | 16 |
| 2.2 Historical Underground Working Features derived from Historical Mapping.....    | 17 |
| 2.3 Current Ground Workings.....                                                    | 17 |
| 3 Mining, Extraction & Natural Cavities Map.....                                    | 18 |
| 3 Mining, Extraction & Natural Cavities.....                                        | 19 |
| 3.1 Historical Mining.....                                                          | 19 |
| 3.2 Coal Mining.....                                                                | 19 |
| 3.3 Johnson Poole and Bloomer.....                                                  | 19 |
| 3.4 Non-Coal Mining.....                                                            | 19 |
| 3.5 Non-Coal Mining Cavities.....                                                   | 20 |
| 3.6 Natural Cavities.....                                                           | 20 |
| 3.7 Brine Extraction.....                                                           | 20 |
| 3.8 Gypsum Extraction.....                                                          | 20 |
| 3.9 Tin Mining.....                                                                 | 20 |
| 3.10 Clay Mining.....                                                               | 21 |
| 4 Natural Ground Subsidence.....                                                    | 22 |
| 4.1 Shrink-Swell Clay Map.....                                                      | 22 |
| 4.2 Landslides Map.....                                                             | 23 |
| 4.3 Ground Dissolution Soluble Rocks Map.....                                       | 24 |
| 4.4 Compressible Deposits Map.....                                                  | 25 |
| 4.5 Collapsible Deposits Map.....                                                   | 26 |
| 4.6 Running Sand Map.....                                                           | 27 |
| 4 Natural Ground Subsidence.....                                                    | 28 |
| 4.1 Shrink-Swell Clays.....                                                         | 28 |
| 4.2 Landslides.....                                                                 | 28 |
| 4.3 Ground Dissolution of Soluble Rocks.....                                        | 28 |
| 4.4 Compressible Deposits.....                                                      | 29 |
| 4.5 Collapsible Deposits.....                                                       | 29 |
| 4.6 Running Sands.....                                                              | 29 |
| 5 Borehole Records Map.....                                                         | 30 |
| 5 Borehole Records.....                                                             | 31 |

6 Estimated Background Soil Chemistry.....32

7 Railways and Tunnels Map.....33

7 Railways and Tunnels.....34

    7.1 Tunnels .....34

    7.2 Historical Railway and Tunnel Features .....34

    7.3 Historical Railways.....35

    7.4 Active Railways.....35

    7.5 Railway Projects.....35

# Overview of Findings

The GroundSure GeoInsight provides high quality geo-environmental information that allows geo-environmental professionals and their clients to make informed decisions and be forewarned of potential ground instability problems that may affect the ground investigation, foundation design and possibly remediation options that could lead to possible additional costs.

The report is based on the BGS 1:50,000 Digital Geological Map of Great Britain, BGS Geosure data; BRITPITS database; Shallow Mining data and Borehole Records, Coal Authority data including brine extraction areas, PBA non-coal mining and natural cavities database, Johnson Poole and Bloomer mining data and GroundSure's unique database including historical surface ground and underground workings.

For further details on each dataset, please refer to each individual section in the report as listed. Where the database has been searched a numerical result will be recorded. Where the database has not been searched 'N' will be recorded.

## Section 1: Geology

|                                       |                                                                                                                                                                                                           |                                                                                                        |
|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|
| 1.1 Artificial Ground                 | 1.1.1 Is there any Artificial Ground/ Made Ground present beneath the study site?                                                                                                                         | Yes                                                                                                    |
|                                       | 1.1.2 Are there any records relating to permeability of artificial ground within the study site* boundary?                                                                                                | Yes                                                                                                    |
| 1.2 Superficial Geology and Landslips | 1.2.1 Is there any Superficial Ground/Drift Geology present beneath the study site?                                                                                                                       | Yes                                                                                                    |
|                                       | 1.2.2 Are there any records relating to permeability of superficial geology within the study site boundary?                                                                                               | Yes                                                                                                    |
|                                       | 1.2.3 Are there any records of landslip within 500m of the study site boundary?                                                                                                                           | No                                                                                                     |
|                                       | 1.2.4 Are there any records relating to permeability of landslips within the study site boundary?                                                                                                         | No                                                                                                     |
| 1.3 Bedrock, Solid Geology & Faults   | 1.3.1 For records of Bedrock and Solid Geology beneath the study site* see the detailed findings section.                                                                                                 |                                                                                                        |
|                                       | 1.3.2 Are there any records relating to permeability of bedrock within the study site boundary?                                                                                                           | Yes                                                                                                    |
|                                       | 1.3.3 Are there any records of faults within 500m of the study site boundary?                                                                                                                             | Yes                                                                                                    |
| 1.4 Radon data                        | 1.4.1 Is the property in a Radon Affected Area as defined by the Health Protection Agency (HPA) and if so what percentage of homes are above the Action Level?                                            | The property is in a Radon Affected Area, as between 1 and 3% of properties are above the Action Level |
|                                       | 1.4.2 Is the property in an area where Radon Protection Measures are required for new properties or extensions to existing ones as described in publication BR211 by the Building Research Establishment? | No radon protective measures are necessary                                                             |

| Section 2: Ground Workings                                              | On-site | 0-50m | 51-250 | 251-500      | 501-1000     |
|-------------------------------------------------------------------------|---------|-------|--------|--------------|--------------|
| 2.1 Historical Surface Ground Working Features from Small Scale Mapping | 0       | 9     | 11     | Not Searched | Not Searched |
| 2.2 Historical Underground Workings from Small Scale Mapping            | 0       | 0     | 0      | 0            | 0            |
| 2.3 Current Ground Workings                                             | 0       | 0     | 0      | 0            | 1            |
| Section 3: Mining, Extraction & Natural Cavities                        | On-site | 0-50m | 51-250 | 251-500      | 501-1000     |
| 3.1 Historical Mining                                                   | 0       | 0     | 0      | 0            | 0            |

| Section 3 Mining, Extraction & Natural Cavities | On-site    | 0-50m | 51-250 | 251-500      | 501-1000 |
|-------------------------------------------------|------------|-------|--------|--------------|----------|
| 3.2 Coal Mining                                 | 0          | 0     | 0      | 0            | 0        |
| 3.3 Johnson Poole and Bloomer Mining Area       | 0          | 0     | 0      | 0            | 0        |
| 3.4 Non-Coal Mining                             | 1          | 0     | 0      | 0            | 1        |
| 3.5 Non-Coal Mining Cavities                    | 0          | 0     | 0      | 0            | 0        |
| 3.6 Natural Cavities                            | 0          | 0     | 0      | 0            | 0        |
| 3.7 Brine Extraction                            | 0          | 0     | 0      | 0            | 0        |
| 3.8 Gypsum Extraction                           | 0          | 0     | 0      | 0            | 0        |
| 3.9 Tin Mining                                  | 0          | 0     | 0      | 0            | 0        |
| 3.10 Clay Mining                                | 0          | 0     | 0      | 0            | 0        |
| Section 4 Natural Ground Subsidence             | On-site    |       |        |              |          |
| 4.1 Shrink Swell Clay                           | Negligible |       |        |              |          |
| 4.2 Landslides                                  | Very Low   |       |        |              |          |
| 4.3 Ground Dissolution of Soluble Rocks         | Very Low   |       |        |              |          |
| 4.4 Compressible Deposits                       | Very Low   |       |        |              |          |
| 4.5 Collapsible Deposits                        | Very Low   |       |        |              |          |
| 4.6 Running Sand                                | Very Low   |       |        |              |          |
| Section 5 Borehole Records                      | On-site    | 0-50m | 51-250 |              |          |
| 5 BGS Recorded Boreholes                        | 0          | 1     | 3      |              |          |
| Section 6 Estimated Background Soil Chemistry   | On-site    | 0-50m | 51-250 |              |          |
| 6 Records of Background Soil Chemistry          | 15         | 2     | 20     |              |          |
| Section 7 Railways and Tunnels                  | On-site    | 0-50m | 51-250 | 251-500      |          |
| 7.1 Tunnels                                     | 0          | 0     | 0      | Not Searched |          |
| 7.2 Historical Railway and Tunnel Features      | 0          | 3     | 0      | Not Searched |          |
| 7.3 Historical Railways                         | 0          | 0     | 0      | Not Searched |          |
| 7.4 Active Railways                             | 1          | 2     | 11     | Not Searched |          |

Report Reference: EMS\_279596\_378767  
 Client Reference: EMS\_279596\_378767

| Section 7: Railways and Tunnels | On-site | 0-50m | 51-250 | 251-500 |
|---------------------------------|---------|-------|--------|---------|
| 7.5 Railway Projects            | 0       | 0     | 0      | 0       |

# 1 Geology

## 1.1 Artificial Ground Map

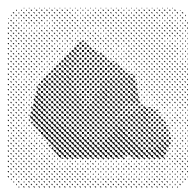


Artificial Ground Legend



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|  |                    |  |                           |  |                               |
|--|--------------------|--|---------------------------|--|-------------------------------|
|  | Site Outline       |  | Made Ground (undivided)   |  | Disturbed Ground (undivided)  |
|  | Search Buffers (m) |  | Worked Ground (undivided) |  | Landscaped Ground (undivided) |
|  |                    |  | Infilled Ground           |  | Reclaimed Ground              |



# 1 Geology

## 1.1 Artificial Ground

### 1.1.1 Artificial/ Made Ground

The following geological information represented on the mapping is derived from 1:50,000 scale BGS Geological mapping, Sheet No:317

Are there any records of Artificial/Made Ground within 500m of the study site boundary? Yes

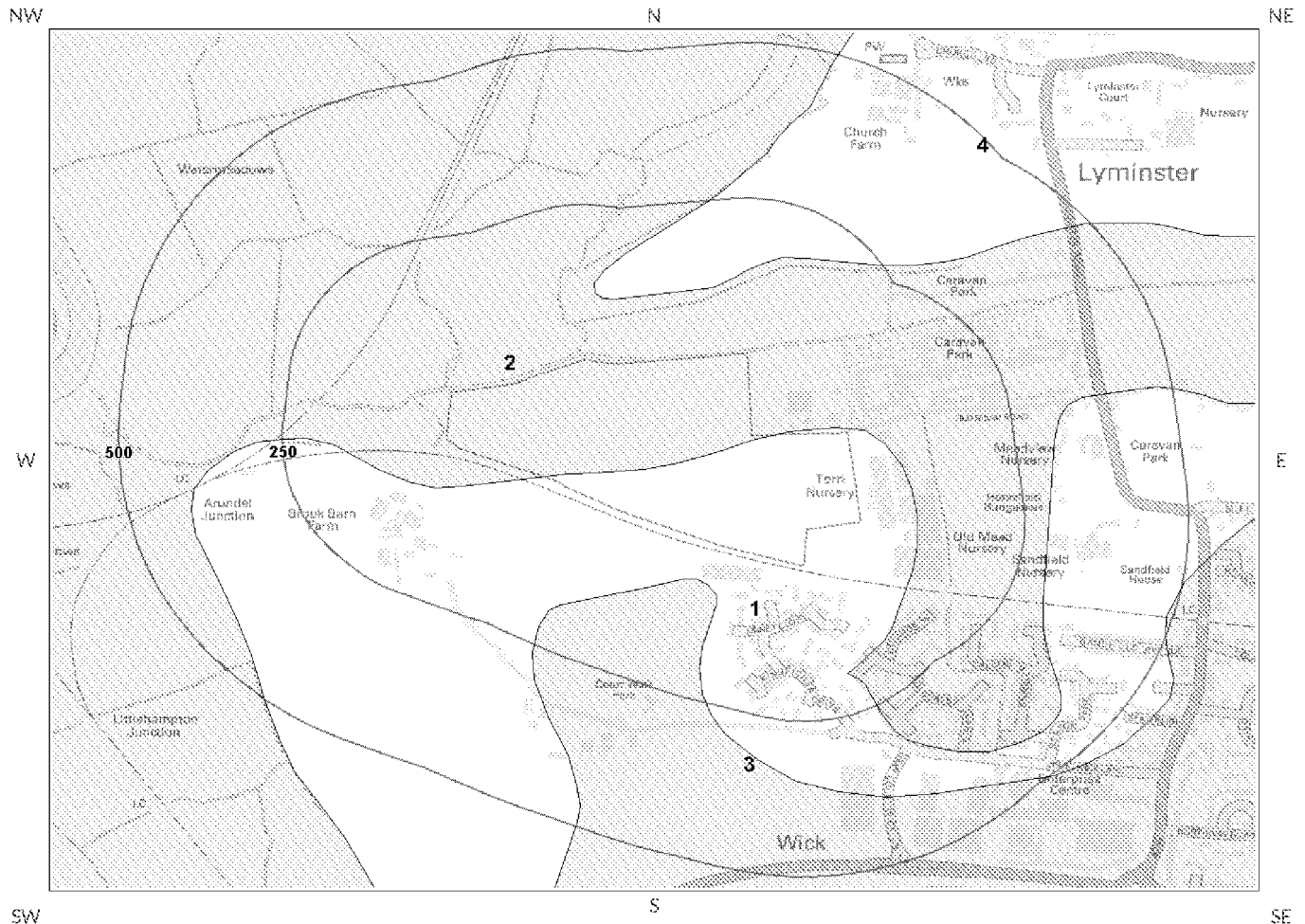
| ID | Distance (m) | Direction | LEX Code | Description             | Rock Description   |
|----|--------------|-----------|----------|-------------------------|--------------------|
| 1  | 0.0          | On Site   | MGR-MGRD | MADE GROUND (UNDIVIDED) | ARTIFICIAL DEPOSIT |
| 2  | 431.0        | SW        | MGR-MGRD | MADE GROUND (UNDIVIDED) | ARTIFICIAL DEPOSIT |

### 1.1.2 Permeability of Artificial Ground

Are there any records relating to permeability of artificial ground within the study site boundary? Yes

| Distance (m) | Direction | Flow Type     | Maximum Permeability | Minimum Permeability |
|--------------|-----------|---------------|----------------------|----------------------|
| 0.0          | On Site   | Intergranular | Very High            | Very Low             |

# 1.2 Superficial Deposits and Landslips Map



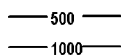
Superficial Deposits and Landslips  
Legend



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Site Outline



Search Buffers (m)

# 1.2 Superficial Deposits and Landslips

## 1.2.1 Superficial Deposits/ Drift Geology

Are there any records of Superficial Deposits/ Drift Geology within 500m of the study site boundary? Yes

| ID | Distance (m) | Direction | LEX Code  | Description                               | Rock Description            |
|----|--------------|-----------|-----------|-------------------------------------------|-----------------------------|
| 1  | 0.0          | On Site   | RBD1-SAGR | RAISED BEACH DEPOSITS, 1                  | SAND AND GRAVEL             |
| 2  | 0.0          | On Site   | RMD-CSSG  | RAISED MARINE DEPOSITS                    | CLAY, SILT, SAND AND GRAVEL |
| 3  | 63.0         | S         | RTDU-SSCL | RIVER TERRACE DEPOSITS (UNDIFFERENTIATED) | SAND, SILT AND CLAY         |
| 4  | 103.0        | N         | RBD1-SAGR | RAISED BEACH DEPOSITS, 1                  | SAND AND GRAVEL             |

## 1.2.2 Permeability of Superficial Ground

Are there any records relating to permeability of superficial ground within the study site boundary? Yes

| Distance (m) | Direction | Flow Type     | Maximum Permeability | Minimum Permeability |
|--------------|-----------|---------------|----------------------|----------------------|
| 0.0          | On Site   | Intergranular | Very High            | High                 |
| 0.0          | On Site   | Mixed         | High                 | Very Low             |

## 1.2.3 Landslip

Are there any records of Landslip within 500m of the study site boundary? No

Database searched and no data found.

This Geology shows the main components as discrete layers, these are: Artificial / Made Ground, Superficial / Drift Geology and Landslips. These are all displayed with the BGS Lexicon code for the rock unit and BGS sheet number. Not all of the main geological components have nationwide coverage.

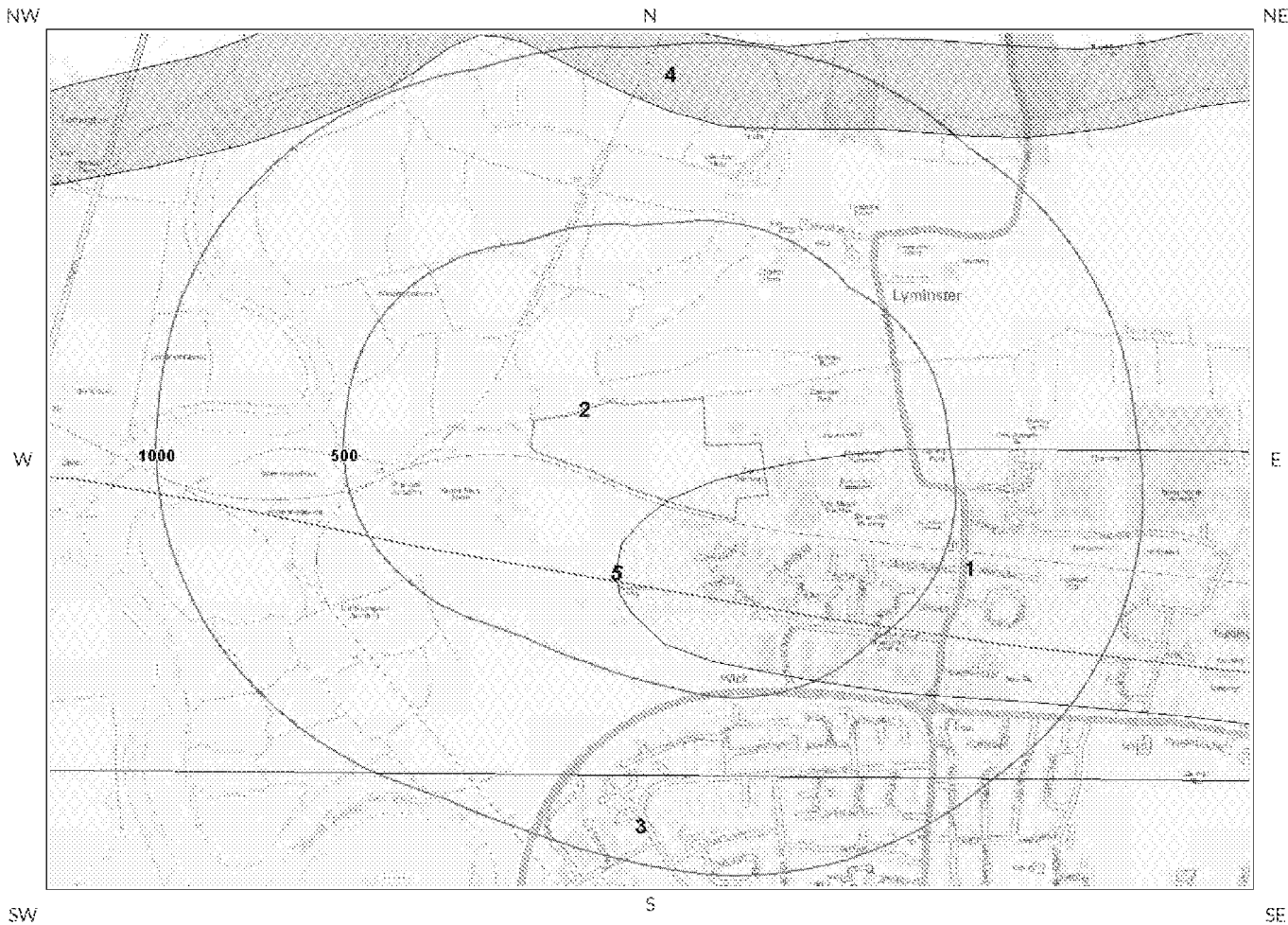
## 1.2.4 Landslip Permeability

Are there any records relating to permeability of landslips within the study site\* boundary? No

Database searched and no data found.

\* This includes an automatically generated 50m buffer zone around the site

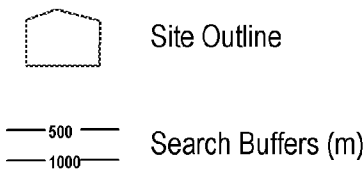
# 1.3 Bedrock and Faults Map



Bedrock and Faults Legend



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# 1.3 Bedrock, Solid Geology & Faults

The following geological information represented on the mapping is derived from 1:50,000 scale BGS Geological mapping, Sheet No:317

## 1.3.1 Bedrock/ Solid Geology

Records of Bedrock/ Solid Geology within 500m of the study site boundary:

| ID | Distance (m) | Direction | LEX Code  | Description                                                                                                               | Rock Age             |
|----|--------------|-----------|-----------|---------------------------------------------------------------------------------------------------------------------------|----------------------|
| 1  | 0.0          | On Site   | NPCH-CHLK | New Pit Chalk Formation - Chalk                                                                                           | Turonian             |
| 2  | 0.0          | On Site   | LPCK-CHLK | Lewes Nodular Chalk Formation, Seaford Chalk Formation, Newhaven Chalk Formation, Culver Chalk Formation And Portsdown C. | Campanian / Turonian |

## 1.3.2 Permeability of Bedrock Ground

Are there any records relating to permeability of bedrock ground within the study site\* boundary? Yes

| Distance (m) | Direction | Flow Type | Maximum Permeability | Minimum Permeability |
|--------------|-----------|-----------|----------------------|----------------------|
| 0.0          | On Site   | Fracture  | Very High            | Very High            |
| 0.0          | On Site   | Fracture  | Very High            | Very High            |

## 1.3.3 Faults

Are there any records of Faults within 500m of the study site boundary? Yes

| ID | Distance (m) | Direction | Category Description | Feature Description                  |
|----|--------------|-----------|----------------------|--------------------------------------|
| 5  | 229.0        | S         | FOLD_AXIS            | Axial plane trace of major anticline |

The geology map for the site and surrounding area are extracted from the BGS Digital Geological Map of Great Britain at 1:50,000 scale.

This Geology shows the main components as discrete layers, these are: Bedrock/ Solid Geology and linear features such as Faults. These are all displayed with the BGS Lexicon code for the rock unit and BGS sheet number. Not all of the main geological components have nationwide coverage.

\* This includes an automatically generated 50m buffer zone around the site

## 1.4 Radon Data

### 1.4.1 Radon Affected Areas

Is the property in a Radon Affected Area as defined by the Health Protection Agency (HPA) and if so what percentage of homes are above the Action Level? The property is in a Radon Affected Area, as between 1 and 3% of properties are above the Action Level

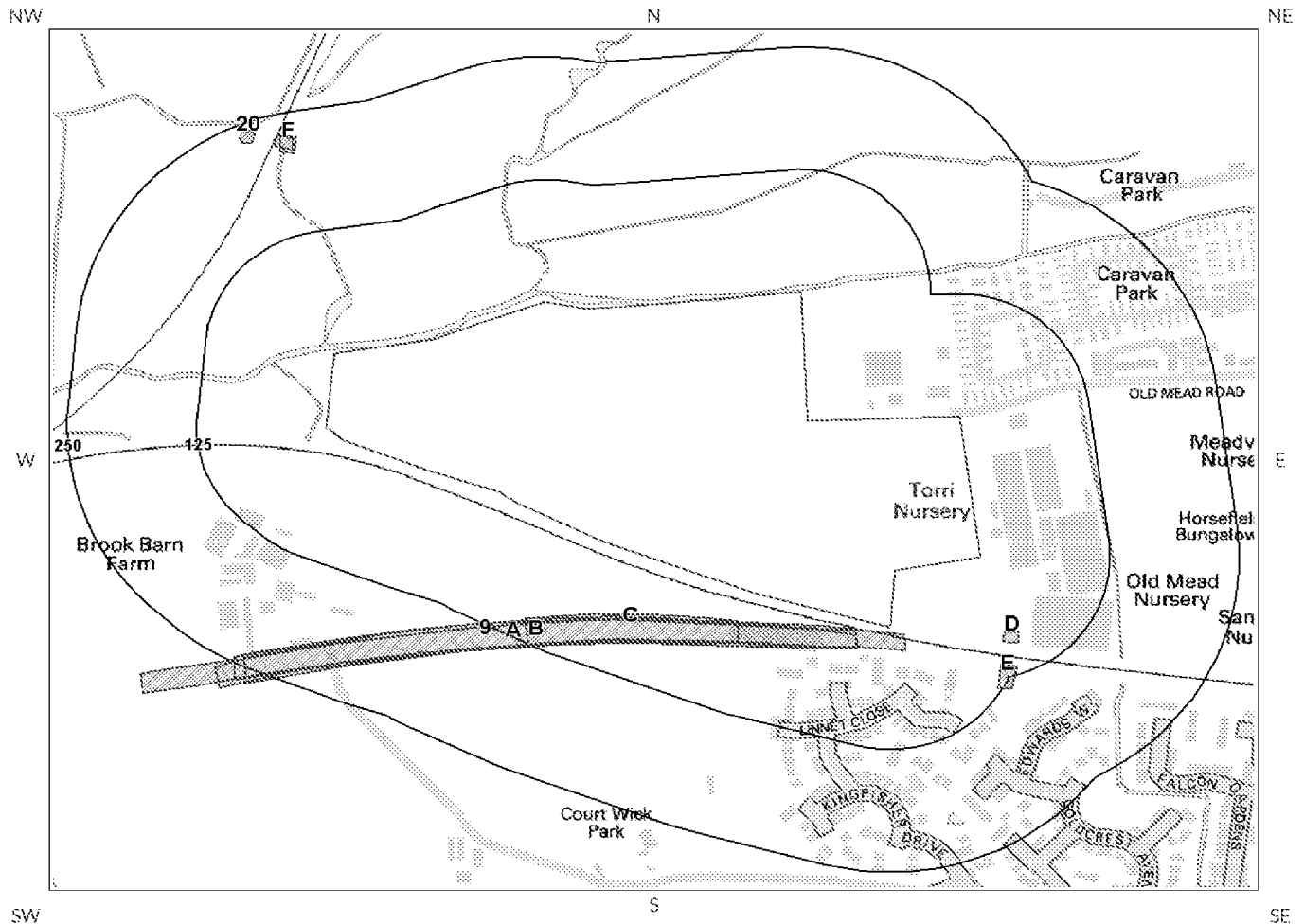
---

### 1.4.2 Radon Protection

Is the property in an area where Radon Protection are required for new properties or extensions to existing ones as described in publication BR211 by the Building Research Establishment? No radon protective measures are necessary

---

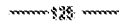
# 2 Ground Workings Map

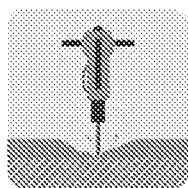


Ground Workings Legend



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-  Site Outline
-  125
-  250
- Search Buffers (m)
-  Historic Surface Ground Workings
-  Historic Underground Workings
-  Current Ground Workings



## 2 Ground Workings

### 2.1 Historical Surface Ground Working Features derived from Historical Mapping

This dataset is based on GroundSure's unique Historical Land Use Database derived from 1:10,560 and 1:10,000 scale historical mapping.

Are there any Historical Surface Ground Working Features within 250m of the study site boundary? **Yes**

The following Historical Surface Ground Working Features are provided by GroundSure:

| ID  | Distance (m) | Direction | NGR              | Use              | Date |
|-----|--------------|-----------|------------------|------------------|------|
| 1A  | 6.0          | S         | 501596<br>103931 | Cuttings         | 1876 |
| 2A  | 6.0          | S         | 501596<br>103931 | Cuttings         | 1876 |
| 3B  | 12.0         | S         | 501649<br>103935 | Cuttings         | 1910 |
| 4B  | 12.0         | S         | 501649<br>103935 | Cuttings         | 1938 |
| 5A  | 17.0         | S         | 501632<br>103932 | Cuttings         | 1896 |
| 6C  | 32.0         | S         | 501893<br>103957 | Cuttings         | 1992 |
| 7C  | 32.0         | S         | 501893<br>103957 | Cuttings         | 1981 |
| 8C  | 32.0         | S         | 501893<br>103957 | Cuttings         | 1974 |
| 9   | 32.0         | S         | 501649<br>103936 | Cuttings         | 1957 |
| 10D | 79.0         | S         | 502259<br>103949 | Unspecified Heap | 1910 |
| 11D | 79.0         | S         | 502259<br>103949 | Unspecified Heap | 1938 |
| 12D | 79.0         | S         | 502259<br>103949 | Unspecified Heap | 1896 |
| 13E | 110.0        | S         | 502256<br>103909 | Unspecified Heap | 1938 |
| 14E | 110.0        | S         | 502256<br>103909 | Unspecified Heap | 1910 |
| 15E | 110.0        | S         | 502256<br>103909 | Unspecified Heap | 1896 |
| 16F | 207.0        | N         | 501561<br>104451 | Unspecified Heap | 1896 |
| 17F | 207.0        | N         | 501561<br>104451 | Unspecified Heap | 1938 |
| 18F | 207.0        | N         | 501561<br>104451 | Unspecified Heap | 1910 |
| 19F | 211.0        | N         | 501557<br>104453 | Unspecified Heap | 1957 |
| 20  | 228.0        | N         | 501522<br>104458 | Unspecified Heap | 1957 |

## 2.2 Historical Underground Working Features derived from Historical Mapping

This data is derived from the GroundSure unique Historical Land Use Database. It contains data derived from 1:10,000 and 1:10,560 historical Ordnance Survey Mapping and includes some natural topographical features (Shake Holes for example) as well as manmade features that may have implications for ground stability. Underground and mining features have been identified from surface features such as shafts. The distance that these extend underground is not shown.

Are there any Historical Underground Working Features within 1000m of the study site boundary? No

Database searched and no data found.

## 2.3 Current Ground Workings

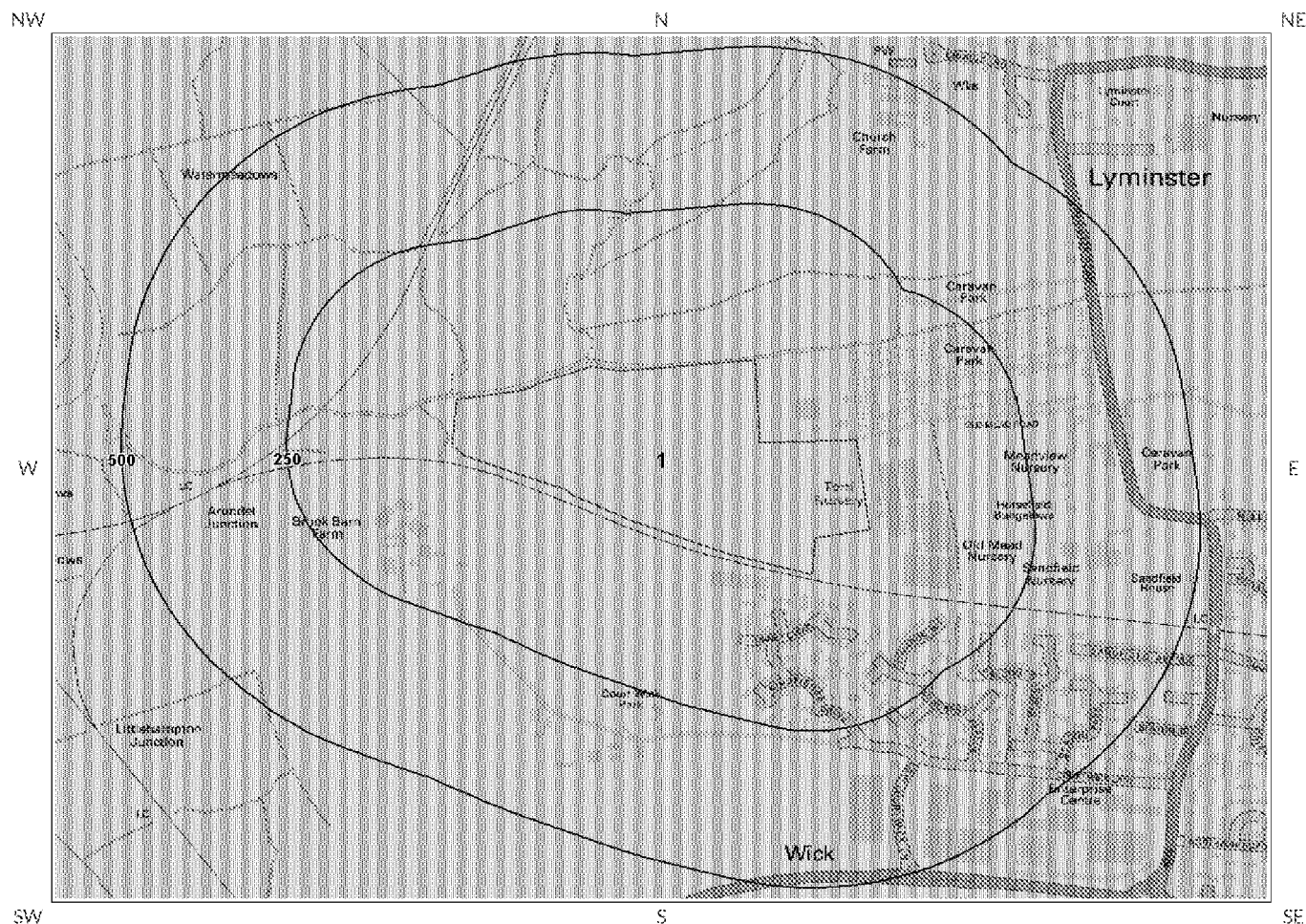
This dataset is derived from the BGS BRITPITS database covering active; inactive mines; quarries; oil wells; gas wells and mineral wharves; and rail deposits throughout the British Isles.

Are there any BGS Current Ground Workings within 1000m of the study site boundary? Yes

The following Current Ground Workings information is provided by British Geological Survey:

| ID        | Distance (m) | Direction | NGR              | Commodity Produced | Pit Name         | Type of working                                                                              | Status |
|-----------|--------------|-----------|------------------|--------------------|------------------|----------------------------------------------------------------------------------------------|--------|
| Not shown | 807.0        | SE        | 502856<br>103521 | Clay & Shale       | Wick Brick Works | A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site | Ceased |

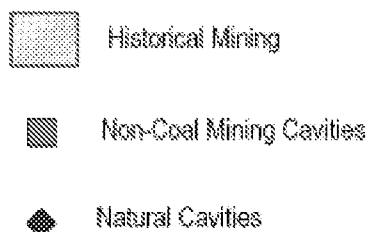
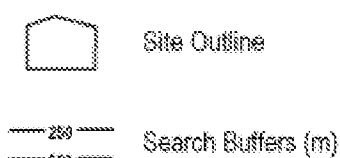
# 3 Mining, Extraction & Natural Cavities Map



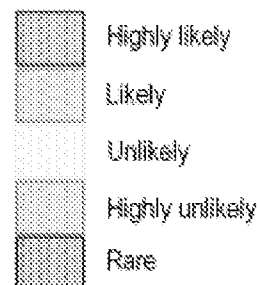
Mining, Extraction and  
Natural Cavities Legend

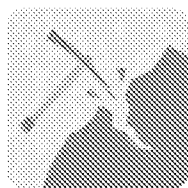


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## Non-Coal Mining





## 3 Mining, Extraction & Natural Cavities

### 3.1 Historical Mining

This dataset is derived from GroundSure unique Historical Land-use Database that are indicative of mining or extraction activities.

Are there any Historical Mining areas within 1000m of the study site boundary? No

Database searched and no data found.

### 3.2 Coal Mining

This dataset provides information as to whether the study site lies within a known coal mining affected area as defined by the coal authority.

Are there any Coal Mining areas within 1000m of the study site boundary? No

Database searched and no data found.

### 3.3 Johnson Poole and Bloomer

This dataset provides information as to whether the study site lies within an area where JPB hold information relating to mining.

Are there any JPB Mining areas within 1000m of the study site boundary? No

The following information provided by JPB is not represented on mapping: Database searched and no data found.

### 3.4 Non-Coal Mining

This dataset provides information as to whether the study site lies within an area which may have been subject to non-coal historic mining.

Are there any Non-Coal Mining areas within 1000m of the study site boundary? Yes

The following non-coal mining information is provided by the BGS:

| ID        | Distance (m) | Direction | Name          | Commodity | Assessment of likelihood                                            |
|-----------|--------------|-----------|---------------|-----------|---------------------------------------------------------------------|
| 1         | 0.0          | On Site   | Not available | Chalk     | Occasional minor mining may have occurred but of restricted extent. |
| Not shown | 700.0        | N         | Not available | Chalk     | Occasional minor mining may have occurred but of restricted extent. |

### 3.5 Non-Coal Mining Cavities

This dataset provides information from the Peter Brett Associates (PBA) mining cavities database (compiled for the national study entitled "Review of mining instability in Great Britain, 1990" PBA has also continued adding to this database) on mineral extraction by mining.

Are there any Non-Coal Mining cavities within 1000m of the study site boundary? No

Database searched and no data found.

---

### 3.6 Natural Cavities

This dataset provides information based on Peter Brett Associates natural cavities database.

Are there any Natural Cavities within 1000m of the study site boundary? No

Database searched and no data found.

---

### 3.7 Brine Extraction

This data provides information from the Coal Authority issued on behalf of the Cheshire Brine Subsidence Compensation Board.

Are there any Brine Extraction areas within 1000m of the study site boundary? No

Database searched and no data found.

---

### 3.8 Gypsum Extraction

This dataset provides information on Gypsum extraction from British Gypsum records.

Are there any Gypsum Extraction areas within 1000m of the study site boundary? No

Database searched and no data found.

---

### 3.9 Tin Mining

This dataset provides information on tin mining areas and is derived from tin mining records. This search is based upon postcode information to a sector level.

Are there any Tin Mining areas within 1000m of the study site boundary? No

Database searched and no data found.

---

### 3.10 Clay Mining

This dataset provides information on Kaolin and Ball Clay mining from relevant mining records.

Are there any Clay Mining areas within 1000m of the study site boundary?

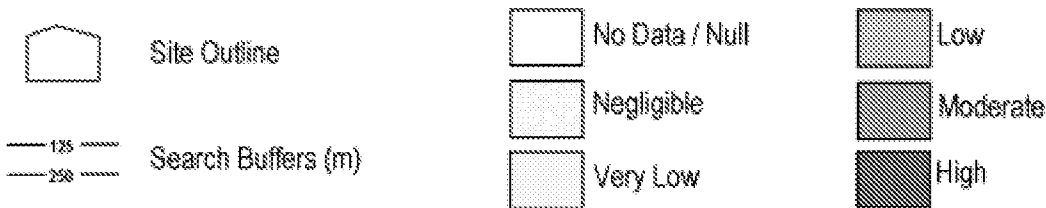
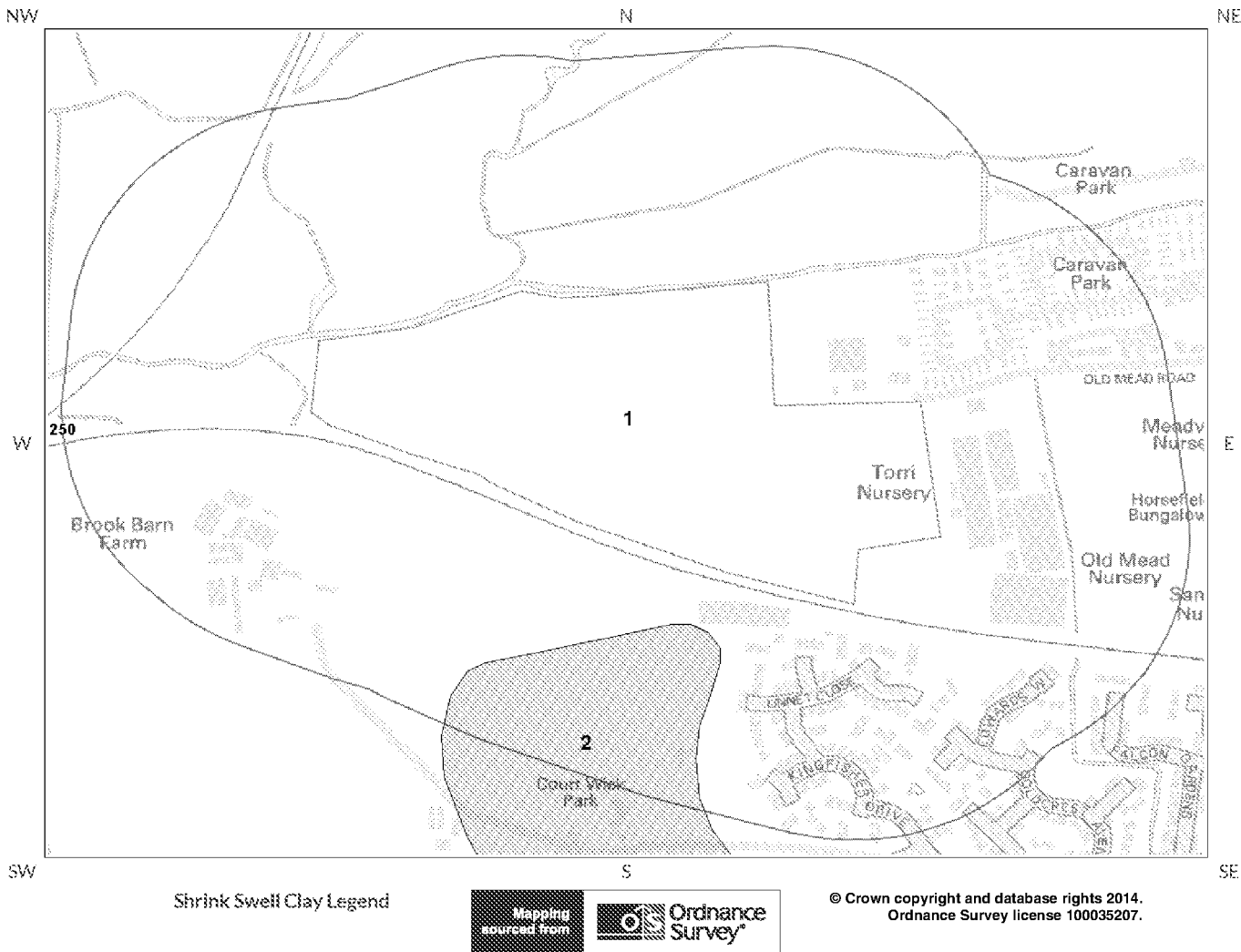
No

Database searched and no data found.

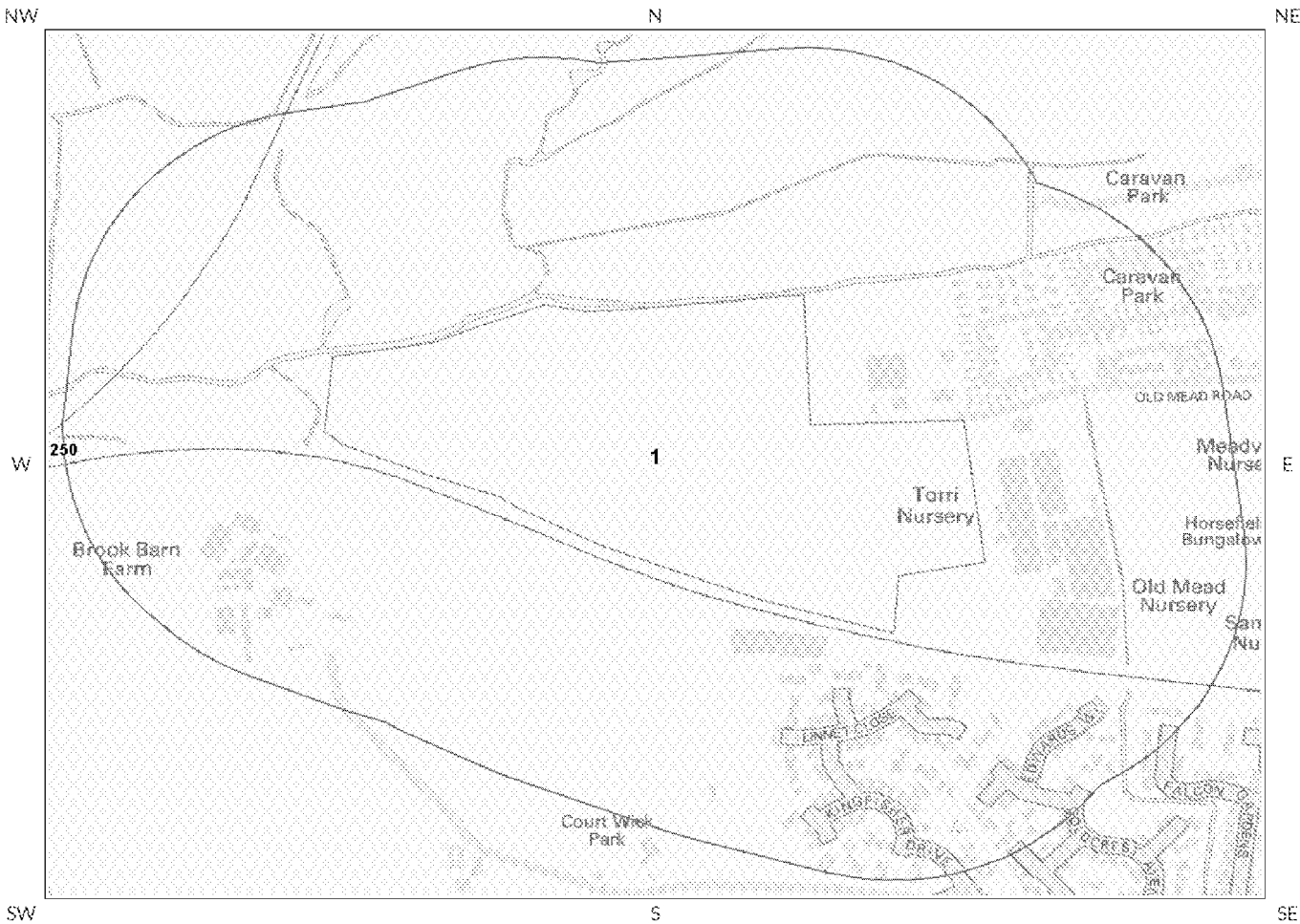
---

# 4 Natural Ground Subsidence

## 4.1 Shrink-Swell Clay Map



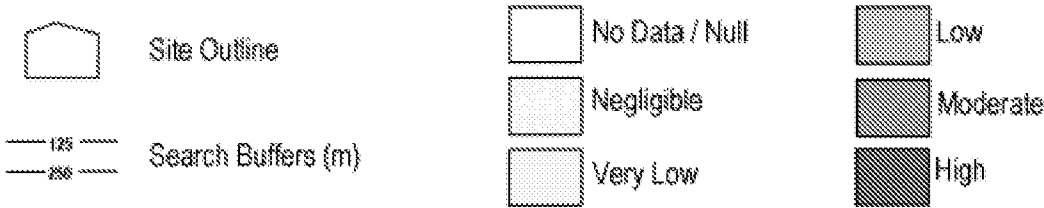
# 4.2 Landslides Map



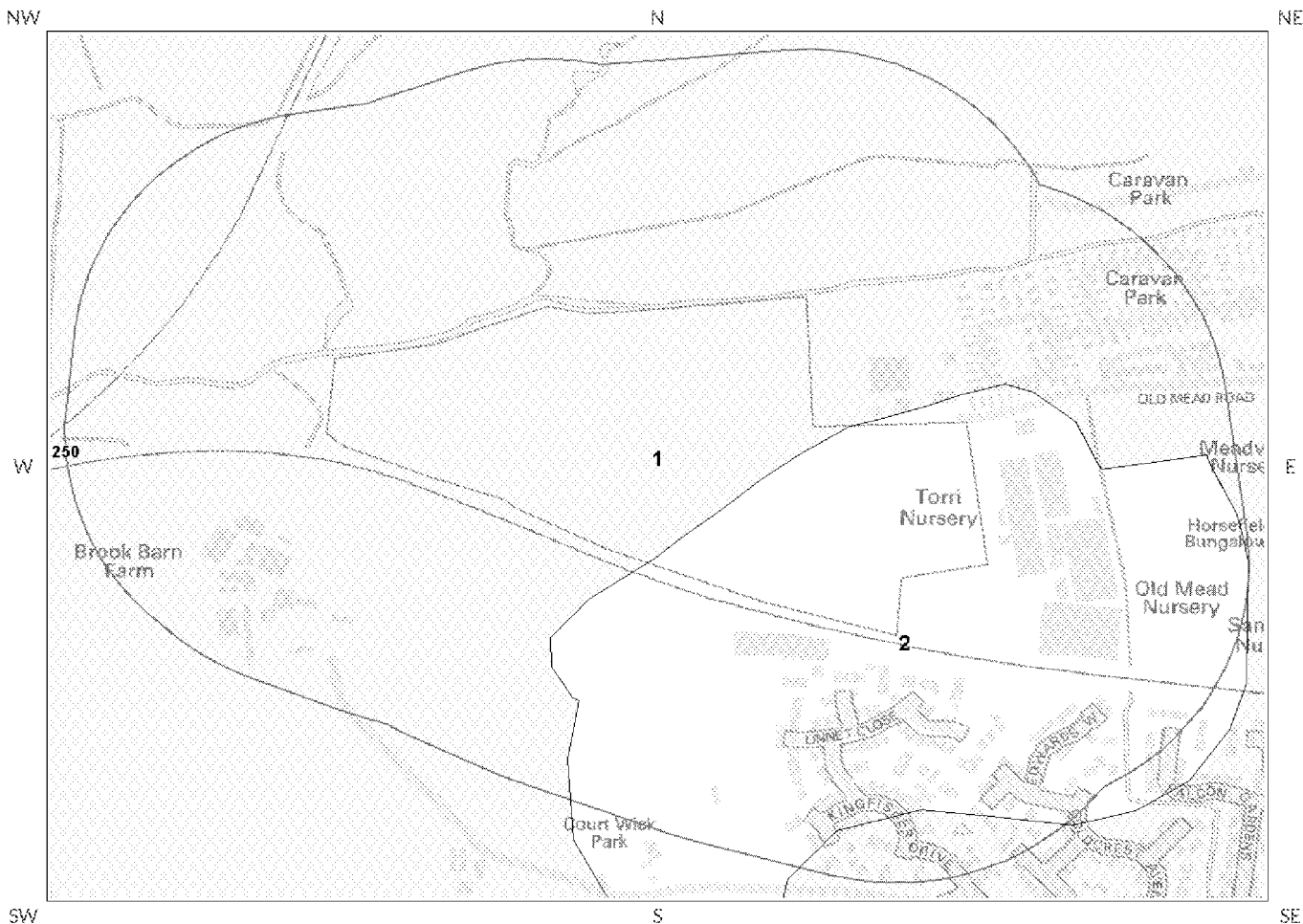
Landslides Legend



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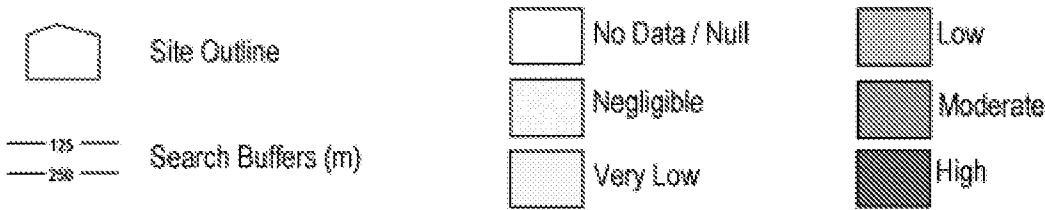
# 4.3 Ground Dissolution Soluble Rocks Map



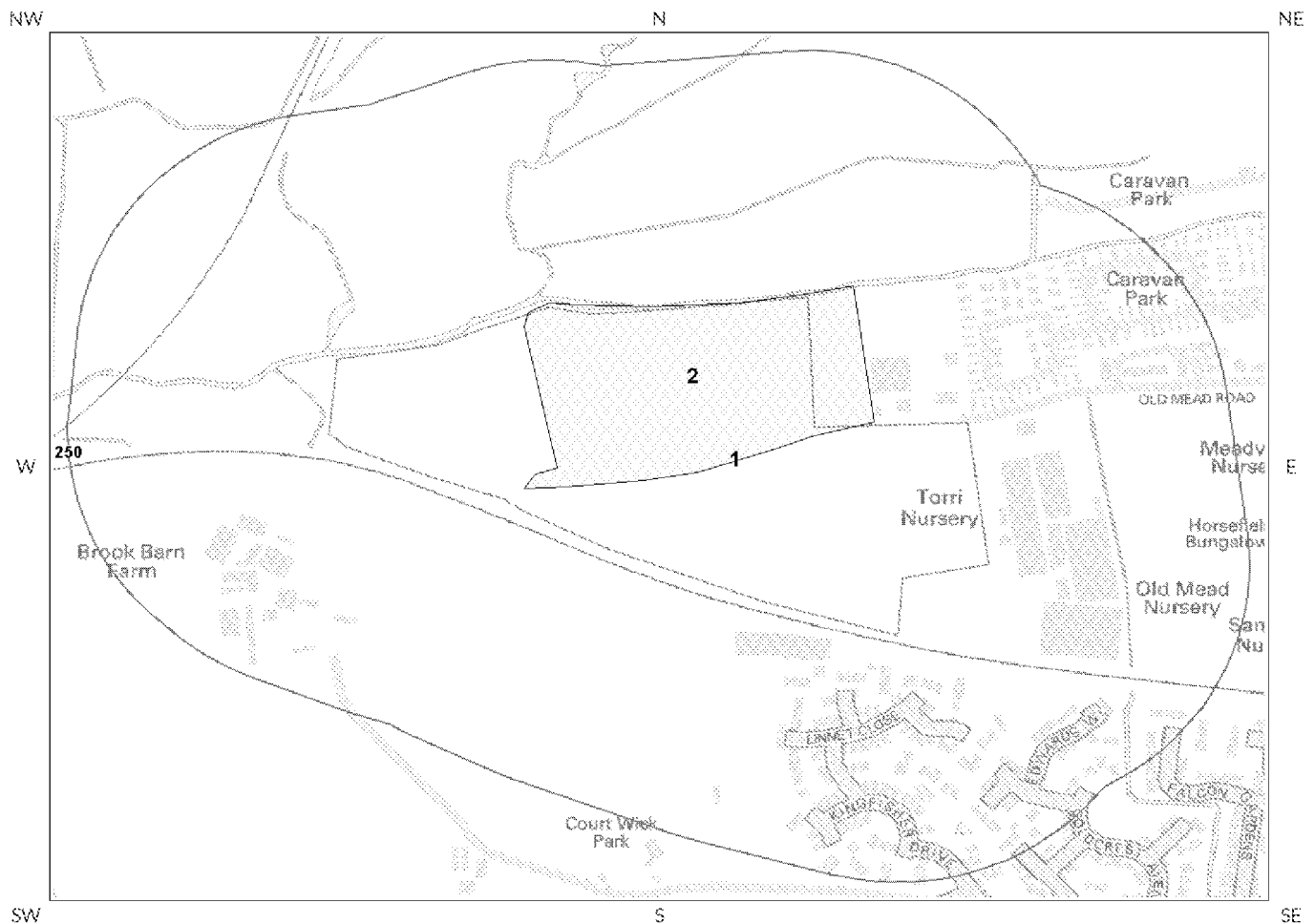
Ground Dissolution  
Soluble Rocks Legend



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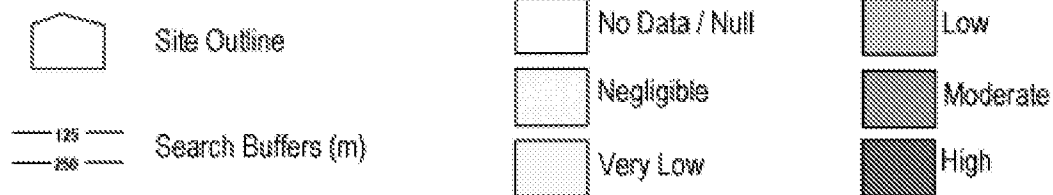
## 4.4 Compressible Deposits Map



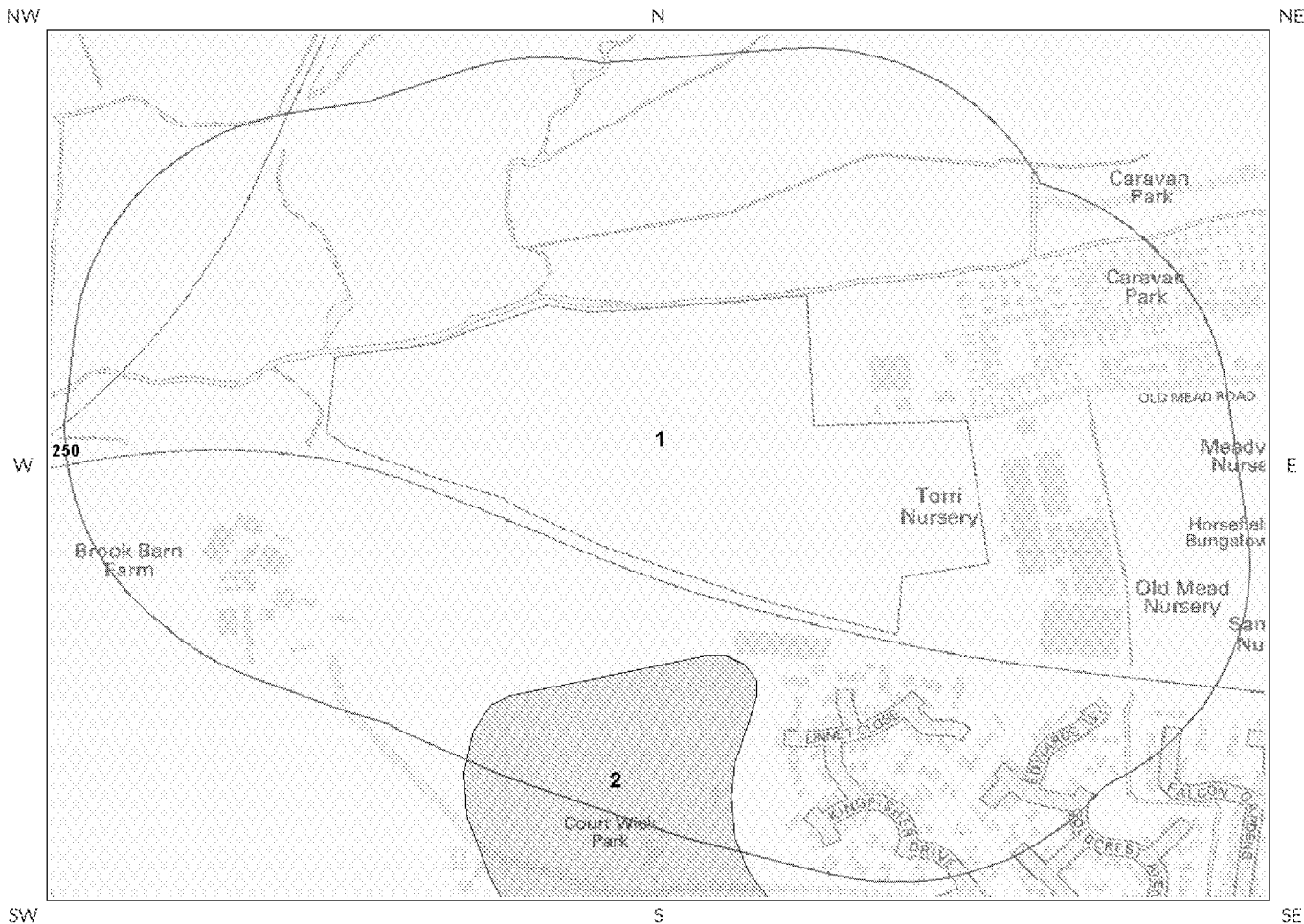
Compressible Deposits Legend



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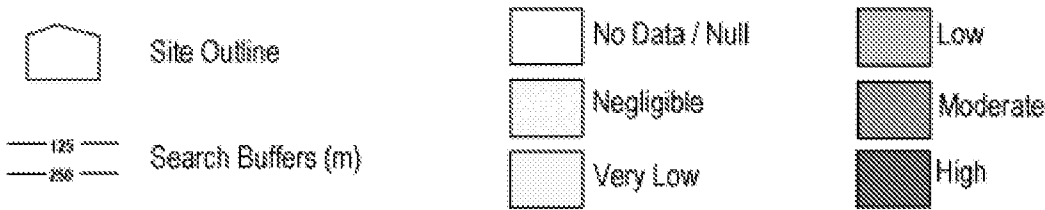
# 4.5 Collapsible Deposits Map



Collapsible Deposits Legend



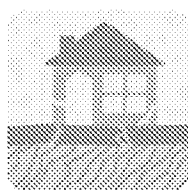
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Mapping sourced from  Ordnance Survey®

 Site Outline  
 Search Buffers (m)  
 125  
 250

 Low  
 Moderate  
 High



## 4 Natural Ground Subsidence

The National Ground Subsidence rating is obtained through the 6 natural ground stability hazard datasets, which are supplied by the British Geological Survey (BGS).

The following GeoSure data represented on the mapping is derived from the BGS Digital Geological map of Great Britain at 1:50,000 scale.

What is the maximum hazard rating of natural subsidence within the study site\* boundary? **Very Low**

### 4.1 Shrink-Swell Clays

The following Shrink Swell information provided by the British Geological Survey:

| ID | Distance (m) | Direction | Hazard Rating | Details                                                                                                                                                                                                                                                                                              |
|----|--------------|-----------|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1  | 0.0          | On Site   | Negligible    | Ground conditions predominantly non-plastic. No special actions required to avoid problems due to shrink-swell clays. No special ground investigation required, and increased construction costs or increased financial risks are unlikely likely due to potential problems with shrink-swell clays. |

### 4.2 Landslides

The following Landslides information provided by the British Geological Survey:

| ID | Distance (m) | Direction | Hazard Rating | Details                                                                                                                                                                                                                                                                                 |
|----|--------------|-----------|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1  | 0.0          | On Site   | Very Low      | Slope instability problems are unlikely to be present. No special actions required to avoid problems due to landslides. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with landslides. |

### 4.3 Ground Dissolution of Soluble Rocks

The following Ground Dissolution information provided by the British Geological Survey:

| ID | Distance (m) | Direction | Hazard Rating | Details                                                                                                                                                                                                                                                                                                                                                              |
|----|--------------|-----------|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1  | 0.0          | On Site   | Very Low      | Significant soluble rocks are present. Problems unlikely except with considerable surface or subsurface water flow. No special actions required to avoid problems due to soluble rocks. No special ground investigation required or increased construction costs are likely. An increase in financial risk due to potential problems with soluble rocks is unlikely. |
| 2  | 0.0          | On Site   | Negligible    | Soluble rocks are present, but unlikely to cause problems except under exceptional conditions. No special actions required to avoid problems due to soluble rocks. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with soluble rocks.                                |

\* This includes an automatically generated 50m buffer zone around the site

## 4.4 Compressible Deposits

The following Compressible Deposits information provided by the British Geological Survey:

| ID | Distance (m) | Direction | Hazard Rating | Details                                                                                                                                                                                                                                                                                                            |
|----|--------------|-----------|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1  | 0.0          | On Site   | Negligible    | No indicators for compressible deposits identified. No special actions required to avoid problems due to compressible deposits. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with compressible deposits.         |
| 2  | 0.0          | On Site   | Very Low      | Very low potential for compressible deposits to be present. No special actions required to avoid problems due to compressible deposits. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with compressible deposits. |

## 4.5 Collapsible Deposits

The following Collapsible Rocks information provided by the British Geological Survey:

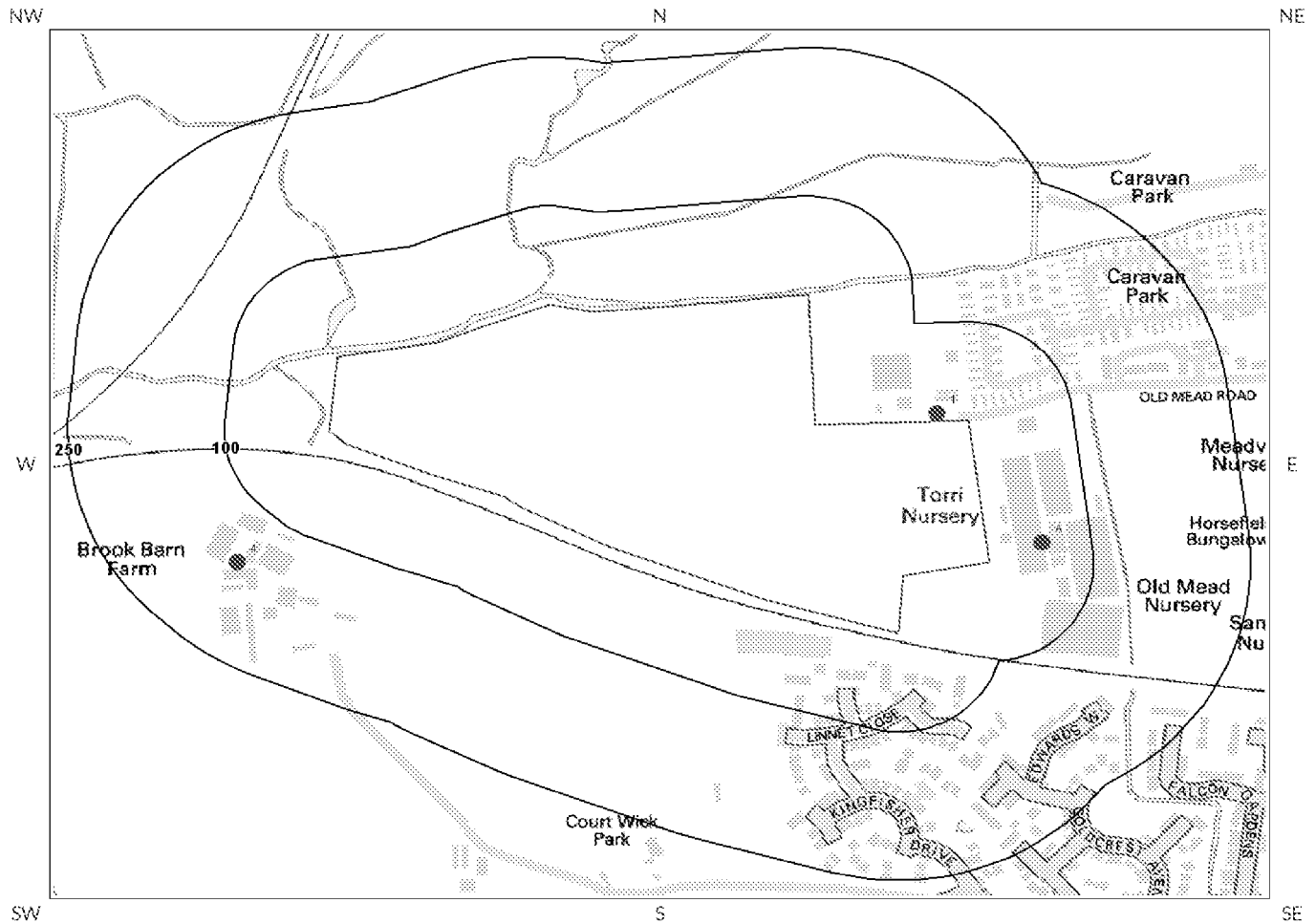
| ID | Distance (m) | Direction | Hazard Rating | Details                                                                                                                                                                                                                                             |
|----|--------------|-----------|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1  | 0.0          | On Site   | Very Low      | Deposits with potential to collapse when loaded and saturated are unlikely to be present. No special ground investigation required or increased construction costs or increased financial risk due to potential problems with collapsible deposits. |

## 4.6 Running Sands

The following Running Sands information provided by the British Geological Survey:

| ID | Distance (m) | Direction | Hazard Rating | Details                                                                                                                                                                                                                                                                                                                                          |
|----|--------------|-----------|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1  | 0.0          | On Site   | Very Low      | Very low potential for running sand problems if water table rises or if sandy strata are exposed to water. No special actions required, to avoid problems due to running sand. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with running sand. |

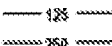
# 5 Borehole Records Map

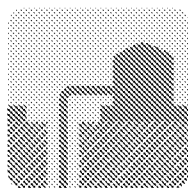


Borehole Records Legend



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-  Site Outline
-  Borehole Locations
-  Search Buffers (m)



## 5 Borehole Records

The systematic analysis of data extracted from the BGS Borehole Records database provides the following information.

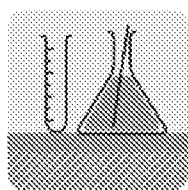
Records of boreholes within 250m of the study site boundary:

4

| ID | Distance (m) | Direction | NGR              | BGS Reference | Drilled Length | Borehole Name                |
|----|--------------|-----------|------------------|---------------|----------------|------------------------------|
| 1  | 8.0          | N         | 502180<br>104180 | TQ00SW47      | -1.0           | SOUTHDOWN NURSERIES          |
| 2A | 52.0         | E         | 502280<br>104050 | TQ00SW46/A    | 15.24          | OLD MEAD NURSERIES LYMINSTER |
| 3A | 52.0         | E         | 502280<br>104050 | TQ00SW46/B    | 15.7           | OLD MEAD NURSERIES LYMINSTER |
| 4  | 159.0        | SW        | 501510<br>104030 | TQ00SW43      | 21.34          | BROOKBARN FARM LITTLEHAMPTON |

Additional online information is available for the following boreholes listed above:

#1: [scans.bgs.ac.uk/sobi\\_scans/boreholes/569772](https://scans.bgs.ac.uk/sobi_scans/boreholes/569772)  
 #2A: [scans.bgs.ac.uk/sobi\\_scans/boreholes/569770](https://scans.bgs.ac.uk/sobi_scans/boreholes/569770)  
 #3A: [scans.bgs.ac.uk/sobi\\_scans/boreholes/569771](https://scans.bgs.ac.uk/sobi_scans/boreholes/569771)  
 #4: [scans.bgs.ac.uk/sobi\\_scans/boreholes/569767](https://scans.bgs.ac.uk/sobi_scans/boreholes/569767)



## 6 Estimated Background Soil Chemistry

Records of background estimated soil chemistry within 250m of the study site boundary:

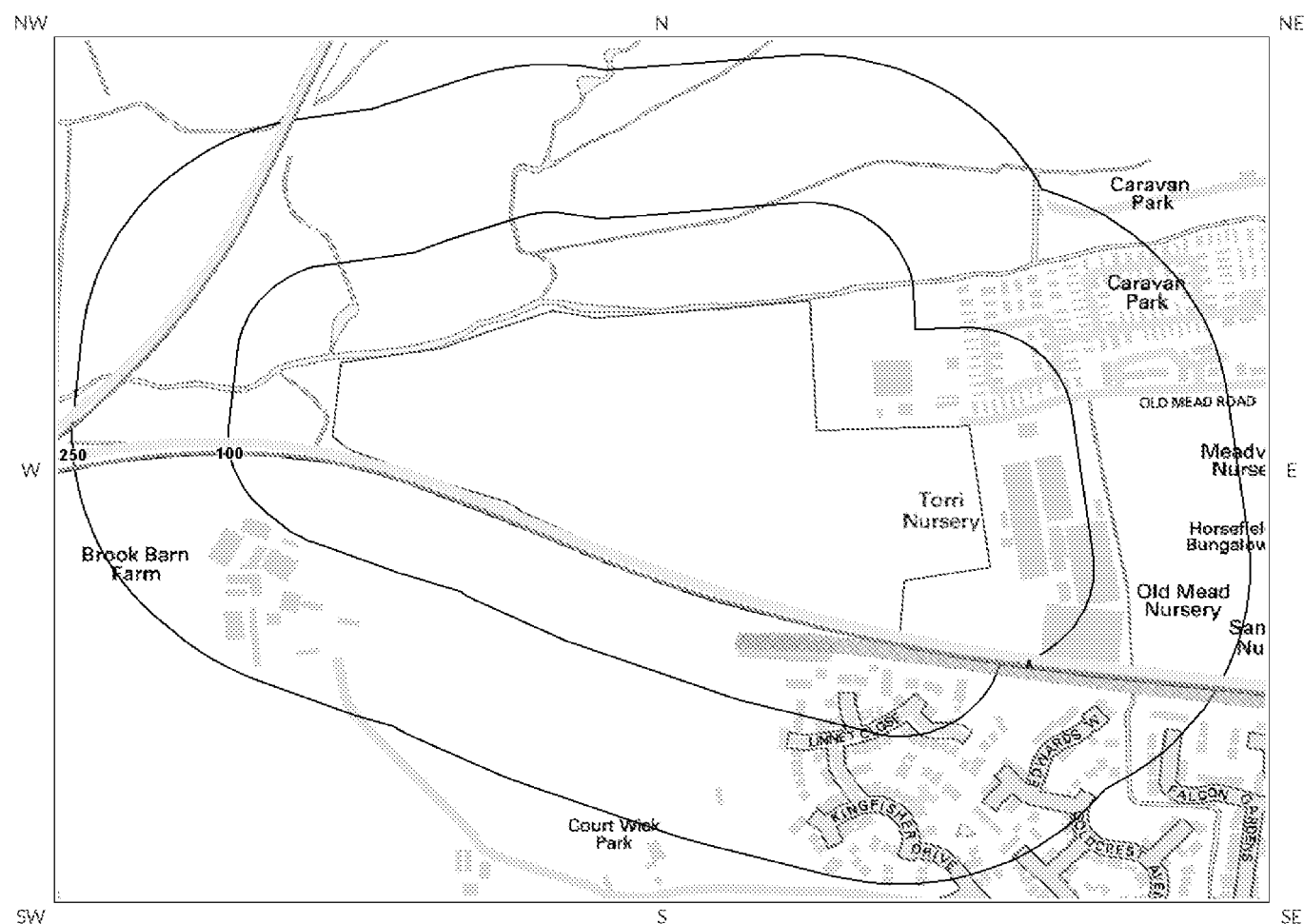
37

For further information on how this data is calculated and limitations upon its use, please see the GroundSure GeoInsight User Guide, available on request.

| Distance (m) | Direction | Sample Type | Arsenic (As) | Cadmium (Cd) | Chromium (Cr) | Nickel (Ni)   | Lead (Pb)  |
|--------------|-----------|-------------|--------------|--------------|---------------|---------------|------------|
| 0.0          | On Site   | Sediment    | <15 mg/kg    | <1.8 mg/kg   | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 0.0          | On Site   | Sediment    | <15 mg/kg    | <1.8 mg/kg   | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 0.0          | On Site   | Sediment    | <15 mg/kg    | <1.8 mg/kg   | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 0.0          | On Site   | Sediment    | <15 mg/kg    | <1.8 mg/kg   | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 0.0          | On Site   | Sediment    | <15 mg/kg    | <1.8 mg/kg   | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 0.0          | On Site   | Sediment    | <15 mg/kg    | <1.8 mg/kg   | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 0.0          | On Site   | Sediment    | <15 mg/kg    | <1.8 mg/kg   | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 0.0          | On Site   | Sediment    | <15 mg/kg    | <1.8 mg/kg   | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 0.0          | On Site   | Sediment    | <15 mg/kg    | <1.8 mg/kg   | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 0.0          | On Site   | Sediment    | <15 mg/kg    | <1.8 mg/kg   | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 0.0          | On Site   | Sediment    | <15 mg/kg    | <1.8 mg/kg   | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 0.0          | On Site   | Sediment    | <15 mg/kg    | <1.8 mg/kg   | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 0.0          | On Site   | Sediment    | <15 mg/kg    | <1.8 mg/kg   | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 0.0          | On Site   | Sediment    | <15 mg/kg    | <1.8 mg/kg   | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 0.0          | On Site   | Sediment    | <15 mg/kg    | <1.8 mg/kg   | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 16.0         | S         | Sediment    | <15 mg/kg    | <1.8 mg/kg   | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 16.0         | S         | Sediment    | <15 mg/kg    | <1.8 mg/kg   | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 63.0         | S         | Sediment    | <15 mg/kg    | <1.8 mg/kg   | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 69.0         | S         | Sediment    | <15 mg/kg    | <1.8 mg/kg   | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 69.0         | S         | Sediment    | <15 mg/kg    | <1.8 mg/kg   | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 74.0         | E         | Sediment    | <15 mg/kg    | <1.8 mg/kg   | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 91.0         | E         | Sediment    | <15 mg/kg    | <1.8 mg/kg   | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 91.0         | E         | Sediment    | <15 mg/kg    | <1.8 mg/kg   | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 98.0         | W         | Sediment    | <15 mg/kg    | <1.8 mg/kg   | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 103.0        | N         | Sediment    | <15 mg/kg    | <1.8 mg/kg   | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 111.0        | SW        | Sediment    | <15 mg/kg    | <1.8 mg/kg   | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 111.0        | N         | Sediment    | <15 mg/kg    | <1.8 mg/kg   | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 111.0        | N         | Sediment    | <15 mg/kg    | <1.8 mg/kg   | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 126.0        | S         | Sediment    | <15 mg/kg    | <1.8 mg/kg   | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 126.0        | S         | Sediment    | <15 mg/kg    | <1.8 mg/kg   | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 126.0        | S         | Sediment    | <15 mg/kg    | <1.8 mg/kg   | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 188.0        | SW        | Sediment    | <15 mg/kg    | <1.8 mg/kg   | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 188.0        | SW        | Sediment    | <15 mg/kg    | <1.8 mg/kg   | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 200.0        | N         | Sediment    | <15 mg/kg    | <1.8 mg/kg   | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 204.0        | N         | Sediment    | <15 mg/kg    | <1.8 mg/kg   | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 204.0        | N         | Sediment    | <15 mg/kg    | <1.8 mg/kg   | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |
| 210.0        | N         | Sediment    | <15 mg/kg    | <1.8 mg/kg   | 60 - 90 mg/kg | 15 - 30 mg/kg | <100 mg/kg |

\*As this data is based upon underlying 1:50,000 scale geological information, a 50m buffer has been added to the search radius.

# 7 Railways and Tunnels Map

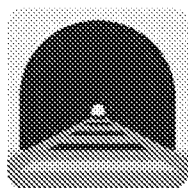


Railways and Tunnels Legend



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- |     |                    |  |                                                              |  |                                                       |
|-----|--------------------|--|--------------------------------------------------------------|--|-------------------------------------------------------|
| 250 | Search Buffers (m) |  | Underground or Partially Underground Railway / Subway System |  | Railway Track (OpenStreetMap)                         |
| 100 |                    |  | Abandoned or Dismantled Railway (OpenStreetMap)              |  | High Speed 2                                          |
|     |                    |  | Railway Tunnel (OS Mapping)                                  |  | Crossrail                                             |
|     |                    |  | Railway Track (OS Mapping)                                   |  | Railway and/or Tunnel Feature from Historical Mapping |
|     |                    |  |                                                              |  |                                                       |



## 7 Railways and Tunnels

### 7.1 Tunnels

This data is derived from OpenStreetMap and provides information on the possible locations of underground railway systems in the UK - the London Underground, the Tyne & Wear Metro and the Glasgow Subway.

Have any underground railway lines been identified within the study site boundary? No

Have any underground railway lines been identified within 250m of the study site boundary? No

Database searched and no data found.

*Any records that have been identified are represented on the Railways and Tunnels Map.*

This data is derived from Ordnance Survey mapping and provides information on the possible locations of railway tunnels forming part of the UK overground railway network.

Have any other railway tunnels been identified within the site boundary? No

Have any other railway tunnels been identified within 250m of the site boundary? No

Database searched and no data found.

*Any records that have been identified are represented on the Railways and Tunnels Map.*

### 7.2 Historical Railway and Tunnel Features

This data is derived from GroundSure's unique Historical Land-use Database and contains features relating to tunnels, railway tracks or associated works that have been identified from historical Ordnance Survey mapping.

Have any historical railway or tunnel features been identified within the study site boundary? No

Have any historical railway or tunnel features been identified within 250m of the study site boundary? Yes

| ID | Distance (m) | Direction | NGR | Details  | Date |
|----|--------------|-----------|-----|----------|------|
| 1A | 5            | S         | n/a | Railways | 1912 |
| 2A | 5            | S         | n/a | Railways | 1876 |
| 3A | 5            | S         | n/a | Railways | 1933 |

*Any records that have been identified are represented on the Railways and Tunnels Map.*

## 7.3 Historical Railways

This data is derived from OpenStreetMap and provides information on the possible alignments of abandoned or dismantled railway lines in proximity to the study site.

Have any historical railway lines been identified within the study site boundary? No

Have any historical railway lines been identified within 250m of the study site boundary? No

Database searched and no data found.

Note: multiple sections of the same track may be listed in the detail above

*Any records that have been identified are represented on the Railways and Tunnels Map.*

## 7.4 Active Railways

These datasets are derived from Ordnance Survey mapping and OpenStreetMap and provide information on the possible locations of active railway lines in proximity to the study site.

Have any active railway lines been identified within the study site boundary? Yes

Have any active railway lines been identified within 250m of the study site boundary? Yes

| Distance (m) | Direction | Name               | Type        |
|--------------|-----------|--------------------|-------------|
| 0            | On Site   | West Coastway      | Rail        |
| 1            | S         | West Coastway Line | Rail        |
| 7            | S         | Not given          | Multi Track |
| 69           | W         | West Coastway      | Rail        |
| 70           | W         | West Coastway Line | Rail        |
| 76           | W         | West Coastway      | Rail        |
| 76           | W         | West Coastway Line | Rail        |
| 153          | NW        | Not given          | Multi Track |
| 157          | NW        | Not given          | Rail        |
| 160          | NW        | Not given          | Rail        |
| 196          | W         | Not given          | Rail        |
| 199          | W         | Not given          | Rail        |
| 209          | W         | Not given          | Rail        |
| 211          | W         | Not given          | Rail        |

Note: multiple sections of the same track may be listed in the detail above

*Any records that have been identified are represented on the Railways and Tunnels Map.*

## 7.5 Railway Projects

These datasets provide information on the location of large scale railway projects High Speed 2 and Crossrail.

Is the study site within 5km of the route of the High Speed 2 rail project? No

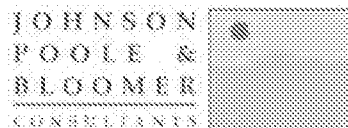
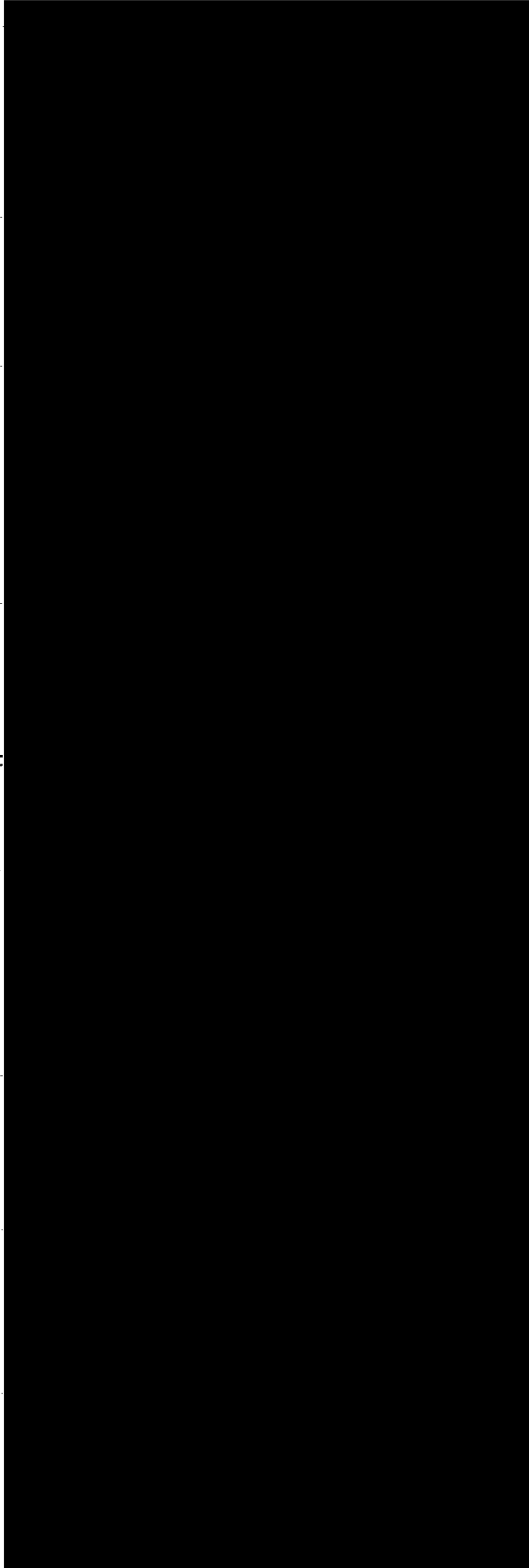
Is the study site within 500m of the route of the Crossrail rail project? No

*Further information on proximity to these routes, the project construction status and associated works can be obtained through the purchase of a GroundSure HS2 and Crossrail Report.*

# Contact Details



**emapsite™**



Acknowledgements: Ordnance Survey © Crown Copyright and/or Database Right. All Rights Reserved. Licence Number [03421028]. This report has been prepared in accordance with the GroundSure Ltd standard Terms and Conditions of business for work of this nature.

Report Reference: EMS-279596\_378767

Client Reference: EMS\_279596\_378767

## Standard Terms and Conditions

### 1 Definitions

In these terms and conditions unless the context otherwise requires:

**"Beneficiary"** means the person or entity for whose benefit the Client has obtained the Services.

**"Client"** means the party or parties entering into a Contract with GroundSure.

**"Commercial"** means any building or property which is not Residential.

**"Confidential Information"** means the contents of this Contract and all information received from the Client as a result of, or in connection with, this Contract other than

(i) information which the Client can prove was rightfully in its possession prior to disclosure by GroundSure and

(ii) any information which is in the public domain (other than by virtue of a breach of this Contract).

**"Support Services"** means Support Services provided by GroundSure including, without limitation, interpreting third party and in-house environmental data, providing environmental support advice, undertaking environmental audits and assessments, Site investigation, Site monitoring and related items.

**"Contract"** means the contract between GroundSure and the Client for the provision of the Services, and which shall incorporate these terms and conditions, the Order, and the relevant User Guide.

**"Third Party Data Provider"** means any third party providing Third Party Content to GroundSure.

**"Data Reports"** means reports comprising factual data with no accompanying interpretation.

**"Fees"** has the meaning set out in clause 5.1.

**"GroundSure"** means GroundSure Limited, a company registered in England and Wales under number 03421028.

**"GroundSure Materials"** means all materials prepared by GroundSure and provided as part of the Services, including but not limited to Third Party Content, Data Reports, Mapping, and Risk Screening Reports.

**"Intellectual Property"** means any patent, copyright, design rights, trade or service mark, moral rights, data protection rights, know-how or trade mark in each case whether registered or not and including applications for the same or any other rights of a similar nature anywhere in the world.

**"Mapping"** means a map, map data or a combination of historical maps of various ages, time periods and scales.

**"Order"** means an electronic, written or other order form submitted by the Client requesting Services from GroundSure in respect of a specified Site.

**"Ordnance Survey"** means the Secretary of State for Business, Innovation and Skills, acting through Ordnance Survey, Adanac Drive, Southampton, SO16 0AS, UK.

**"Order Website"** means the online platform through which Orders may be placed by the Client and accepted by GroundSure.

**"Report"** means a Risk Screening Report or Data Report for Commercial or Residential property.

**"Residential"** means any building or property used as or intended to be used as a single dwelling.

**"Risk Screening Report"** means a risk screening report comprising factual data with an accompanying interpretation by GroundSure.

**"Services"** means any Report, Mapping and/or Support Services which GroundSure has agreed to provide by accepting an Order pursuant to clause 2.6.

**"Site"** means the area of land in respect of which the Client has requested GroundSure to provide the Services.

**"Third Party Content"** means data, database information or other information which is provided to GroundSure by a Third Party Data Provider.

**"User Guide"** means the user guide, as amended from time to time, available upon request from GroundSure and on the website ([www.GroundSure.com](http://www.GroundSure.com)) and forming part of this Contract.

### 2 Scope of Services, terms and conditions, requests for insurance and quotations

2.1 GroundSure agrees to provide the Services in accordance with the Contract.

2.2 GroundSure shall exercise reasonable skill and care in the provision of the Services.

2.3 Subject to clause 7.3 the Client acknowledges that it has not relied on any statement or representation made by or on behalf of GroundSure which is not set out and expressly agreed in writing in the Contract and all such statements and representations are hereby excluded to the fullest extent permitted by law.

2.4 The Client acknowledges that terms and conditions appearing on a Client's order form, printed stationery or other communication, or any terms or conditions implied by custom, practice or course of dealing shall be of no effect, and that this Contract shall prevail over all others in relation to the Order.

2.5 If the Client or Beneficiary requests insurance in conjunction with or as a result of the Services, GroundSure shall use reasonable endeavours to recommend such insurance, but makes no warranty that such insurance shall be available from insurers or that it will be offered on reasonable terms. Any insurance purchased by the Client or Beneficiary shall be subject solely to the terms of the policy issued by insurers and GroundSure will have no liability therefor. In addition you acknowledge and agree that GroundSure does not act as an agent or broker for any insurance providers. The Client should take (and ensure that the Beneficiary takes) independent advice to ensure that the insurance policy requested or offered is suitable for its requirements.

2.6 GroundSure's quotations or proposals are valid for a period of 30 days only unless an alternative period of time is explicitly stipulated by GroundSure. GroundSure reserves the right to withdraw any quotation or proposal at any time before an Order is accepted by GroundSure. GroundSure's acceptance of an Order

shall be binding only when made in writing and signed by GroundSure's authorised representative or when accepted through the Order Website.

### 3 The Client's obligations

3.1 The Client shall comply with the terms of this Contract and

(i) procure that the Beneficiary or any third party relying on the Services complies with and acts as if it is bound by the Contract and

(ii) be liable to GroundSure for the acts and omissions of the Beneficiary or any third party relying on the Services as if such acts and omissions were those of the Client.

3.2 The Client shall be solely responsible for ensuring that the Services are appropriate and suitable for its and/or the Beneficiary's needs.

3.3 The Client shall supply to GroundSure as soon as practicable and without charge all requisite information (and the Client warrants that such information is accurate, complete and appropriate), including without limitation any environmental information relating to the Site and shall give such assistance as GroundSure shall reasonably require in the provision of the Services including, without limitation, access to the Site, facilities and equipment.

3.4 Where the Client's approval or decision is required to enable GroundSure to carry out work in order to provide the Services, such approval or decision shall be given or procured in reasonable time and so as not to delay or disrupt the performance of the Services.

3.5 Save as expressly permitted by this Contract the Client shall not, and shall procure that the Beneficiary shall not, re-sell, alter, add to, or amend the GroundSure Materials, or use the GroundSure Materials in a manner for which they were not intended. The Client may make the GroundSure Materials available to a third party who is considering acquiring some or all of, or providing funding in relation to, the Site, but such third party cannot rely on the same unless expressly permitted under clause 4.

3.6 The Client is responsible for maintaining the confidentiality of its user name and password if using the Order Website and the Client acknowledges that GroundSure accepts no liability of any kind for any loss or damage suffered by the Client as a consequence of using the Order Website.

### 4 Reliance

4.1 The Client acknowledges that the Services provided by GroundSure consist of the presentation and analysis of Third Party Content and other content and that information obtained from a Third Party Data Provider cannot be guaranteed or warranted by GroundSure to be reliable.

4.2 In respect of Data Reports, Mapping and Risk Screening Reports, the following classes of person and no other are entitled to rely on their contents:

- (i) the Beneficiary,
- (ii) the Beneficiary's professional advisers, (iii) any person providing funding to the Beneficiary in relation to the Site (whether directly or as part of a lending syndicate),
- (iv) the first purchaser or first tenant of the Site, and
- (v) the professional advisers and lenders of the first purchaser or tenant of the Site.

4.3 In respect of Support Services, only the Client, Beneficiary and parties expressly named in a Report and no other parties are entitled to rely on its contents.

4.4 Save as set out in clauses 4.2 and 4.3 and unless otherwise expressly agreed in writing, no other person or entity of any kind is entitled to rely on any Services or Report issued or provided by GroundSure. Any party considering such Reports and Services does so at their own risk.

### 5 Fees and Disbursements

5.1 GroundSure shall charge and the Client shall pay fees at the rate and frequency specified in the written proposal, Order Website or Order acknowledgement form, plus (in the case of Support Services) all proper disbursements incurred by GroundSure. The Client shall in addition pay all value added tax or other tax payable on such fees and disbursements in relation to the provision of the Services (together "Fees").

5.2 The Client shall pay all outstanding Fees to GroundSure in full without deduction, counterclaim or set off within 30 days of the date of GroundSure's invoice or such other period as may be agreed in writing between GroundSure and the Client ("Payment Date"). Interest on late payments will accrue on a daily basis from the Payment Date until the date of payment (whether before or after judgment) at the rate of 8% per annum.

5.3 The Client shall be deemed to have agreed the amount of any invoice unless an objection is made in writing within 28 days of the date of the invoice. As soon as reasonably practicable after being notified of an objection, without prejudice to clause 5.2 a member of GroundSure's management team will contact the Client and the parties shall then use all reasonable endeavours to resolve the dispute within 15 days.

### 6 Intellectual Property and Confidentiality

6.1 Subject to

- (i) full payment of all relevant Fees and
- (ii) compliance with this Contract, the Client is granted (and is permitted to sub-licence to the Beneficiary) a royalty-free, worldwide, non-assignable and (save to the extent set out in this Contract) non-transferable licence to make use of the GroundSure Materials.

6.2 All Intellectual Property in the GroundSure Materials are and shall remain owned by GroundSure or GroundSure's licensors (including without limitation the Third Party Data Providers) the Client acknowledges, and shall procure acknowledgement by the Beneficiary of, such ownership. Nothing in this Contract purports to transfer or assign any rights to the Client or the Beneficiary in respect of such Intellectual Property.

6.3 Third Party Data Providers may enforce any breach of clauses 6.1 and 6.2 against the Client or Beneficiary.

6.4 The Client shall, and shall procure that any recipients of the GroundSure Materials shall:

(i) not remove, suppress or modify any trade mark, copyright or other proprietary marking belonging to GroundSure or any third party from the Services;

(ii) use the information obtained as part of the Services in respect of the subject Site only, and shall not store or reuse any information obtained as part of the Services provided in respect of adjacent or nearby sites;

(iii) not create any product or report which is derived directly or indirectly from the Services (save that those acting in a professional capacity to the Beneficiary may provide advice based upon the Services);

(iv) not combine the Services with or incorporate such Services into any other information data or service;

(v) not reformat or otherwise change (whether by modification, addition or enhancement), the Services (save that those acting for the Beneficiary in a professional capacity shall not be in breach of this clause 6.4(v) where such reformatting is in the normal course of providing advice based upon the Services);

(vi) where a Report and/or Mapping contains material belonging to Ordnance Survey, acknowledge and agree that such content is protected by Crown Copyright and shall not use such content for any purpose outside of receiving the Services; and

(vii) not copy in whole or in part by any means any map prints or run-on copies containing content belonging to Ordnance Survey (other than that contained within Ordnance Survey's OS Street Map) without first being in possession of a valid Paper Map Copying Licence from Ordnance Survey.

6.5 Notwithstanding clause 6.4, the Client may make reasonable use of the GroundSure Materials in order to advise the Beneficiary in a professional capacity. However, GroundSure shall have no liability in respect of any advice, opinion or report given or provided to Beneficiaries by the Client.

6.6 The Client shall procure that any person to whom the Services are made available shall notify GroundSure of any request or requirement to disclose, publish or disseminate any information contained in the Services in accordance with the Freedom of Information Act 2000, the Environmental Information Regulations 2004 or any associated legislation or regulations in force from time to time.

#### **7. Liability: Particular Attention Should Be Paid To This Clause**

7.1 This Clause 7 sets out the entire liability of GroundSure, including any liability for the acts or omissions of its employees, agents, consultants, subcontractors and Third Party Content, in respect of:

(i) any breach of contract, including any deliberate breach of the Contract by GroundSure or its employees, agents or subcontractors;

(ii) any use made of the Reports, Services, Materials or any part of them; and

(iii) any representation, statement or tortious act or omission (including negligence) arising under or in connection with the Contract.

7.2 All warranties, conditions and other terms implied by statute or common law are, to the fullest extent permitted by law, excluded from the Contract.

7.3 Nothing in the Contract limits or excludes the liability of the Supplier for death or personal injury resulting from negligence, or for any damage or liability incurred by the Client or Beneficiary as a result of fraud or fraudulent misrepresentation.

7.4 GroundSure shall not be liable for

(i) loss of profits;

(ii) loss of business;

(iii) depletion of goodwill and/or similar losses;

(iv) loss of anticipated savings;

(v) loss of goods;

(vi) loss of contract;

(vii) loss of use;

(viii) loss or corruption of data or information;

(ix) business interruption;

(x) any kind of special, indirect, consequential or pure economic loss, costs, damages, charges or expenses;

(xi) loss or damage that arise as a result of the use of all or part of the GroundSure Materials in breach of the Contract;

(xii) loss or damage arising as a result of any error, omission or inaccuracy in any part of the GroundSure Materials where such error, omission or inaccuracy is caused by any Third Party Content or any reasonable interpretation of Third Party Content;

(xiii) loss or damage to a computer, software, modem, telephone or other property; and

(xiv) loss or damage caused by a delay or loss of use of GroundSure's internet ordering service.

7.5 GroundSure's total liability in relation to or under the Contract shall be limited to £10 million for any claim or claims.

7.6 GroundSure shall procure that the Beneficiary shall be bound by limitations and exclusions of liability in favour of GroundSure which accord with those detailed in clauses 7.4 and 7.5 (subject to clause 7.3) in respect of all claims which the Beneficiary may bring against GroundSure in relation to the Services or other matters arising pursuant to the Contract.

#### **8 GroundSure's right to suspend or terminate**

8.1 If GroundSure reasonably believes that the Client or Beneficiary has not provided the information or assistance required to enable the proper provision of the Services, GroundSure shall be entitled to suspend all further performance of the Services until such time as any such deficiency has been made good.

8.2 GroundSure shall be entitled to terminate the Contract immediately on written notice in the event that:

(i) the Client fails to pay any sum due to GroundSure within 30

days of the Payment Date; or

(ii) the Client (being an individual) has a bankruptcy order made against him or (being a company) shall enter into liquidation whether compulsory or voluntary or have an administration order made against it or if a receiver shall be appointed over the whole or any part of its property assets or undertaking or if the Client is struck off the Register of Companies or dissolved; or

(iii) the Client being a company is unable to pay its debts within the meaning of Section 123 of the Insolvency Act 1986 or being an individual appears unable to pay his debts within the meaning of Section 268 of the Insolvency Act 1986 or if the Client shall enter into a composition or arrangement with the Client's creditors or shall suffer distress or execution to be levied on his goods; or

(iv) the Client or the Beneficiary breaches any term of the Contract (including, but not limited to, the obligations in clause 4) which is incapable of remedy or if remediable, is not remedied within five days of notice of the breach.

#### **9. Client's Right to Terminate and Suspend**

9.1 Subject to clause 10.1, the Client may at any time upon written notice terminate or suspend the provision of all or any of the Services.

9.2 In any event, where the Client is a consumer (and not a business) he/she hereby expressly acknowledges and agrees that:

(i) the supply of Services under this Contract (and therefore the performance of this Contract) commences immediately upon GroundSure's acceptance of the Order; and

(ii) the Reports and/or Mapping provided under this Contract are

(a) supplied to the Client's specification(s) and in any event

(b) by their nature cannot be returned.

#### **10 Consequences of Withdrawal, Termination or Suspension**

10.1 Upon termination of the Contract:

(i) GroundSure shall take steps to bring to an end the Services in an orderly manner, vacate any Site with all reasonable speed and shall deliver to the Client and/or Beneficiary any property of the Client and/or Beneficiary in GroundSure's possession or control; and

(ii) the Client shall pay to GroundSure all and any Fees payable in respect of the performance of the Services up to the date of termination or suspension. In respect of any Support Services provided, the Client shall also pay GroundSure any additional costs incurred in relation to the termination or suspension of the Contract.

#### **11 Anti-Bribery**

11.1 The Client warrants that it shall:

(i) comply with all applicable laws, statutes and regulations relating to anti-bribery and anti-corruption including but not limited to the Bribery Act 2010;

(ii) comply with such of GroundSure's anti-bribery and anti-corruption policies as are notified to the Client from time to time; and

(iii) promptly report to GroundSure any request or demand for any undue financial or other advantage of any kind received by or on behalf of the Client in connection with the performance of this Contract.

11.2 Breach of this Clause 11 shall be deemed a material breach of this Contract.

#### **12 General**

12.1 The Mapping contained in the Services is protected by Crown copyright and must not be used for any purpose other than as part of the Services or as specifically provided in the Contract.

12.2 The Client shall be permitted to make one copy only of each Report or Mapping Order. Thereafter the Client shall be entitled to make unlimited copies of the Report or Mapping Order only in accordance with an Ordnance Survey paper map copy license available through GroundSure.

12.3 GroundSure reserves the right to amend or vary this Contract. No amendment or variation to this Contract shall be valid unless signed by an authorised representative of GroundSure.

12.4 No failure on the part of GroundSure to exercise, and no delay in exercising, any right, power or provision under this Contract shall operate as a waiver thereof.

12.5 Save as expressly provided in this Contract, no person other than the persons set out therein shall have any right under the Contract (Rights of Third Parties) Act 1999 to enforce any terms of the Contract.

12.6 The Secretary of State for Business, Innovation and Skills ("BIS") or BIS' successor body, as the case may be, acting through Ordnance Survey may enforce a breach of clause 6.4(vi) and clause 6.4(vii) of these terms and conditions against the Client in accordance with the provisions of the Contracts (Rights of Third Parties) Act 1999.

12.7 GroundSure shall not be liable to the Client if the provision of the Services is delayed or prevented by one or more of the following circumstances:

(i) the Client or Beneficiary's failure to provide facilities, access or information;

(ii) fire, storm, flood, tempest or epidemic;

(iii) Acts of God or the public enemy;

(iv) riot, civil commotion or war;

(v) strikes, labour disputes or industrial action;

(vi) acts or regulations of any governmental or other agency;

(vii) suspension or delay of services at public registries by Third

Party Data Providers;

(viii) changes in law; or

(ix) any other reason beyond GroundSure's reasonable control.

In the event that GroundSure is prevented from performing the Services (or any part thereof) in accordance with this clause 12.6 for a period of not less than 30 days then GroundSure shall be entitled to terminate this Contract immediately on written notice to the Client.

12.8 Any notice provided shall be in writing and shall be deemed to be properly

given if delivered by hand or sent by first class post, facsimile or by email to the address, facsimile number or email address of the relevant party as may have been notified by each party to the other for such purpose or in the absence of such notification the last known address.

12.9 Such notice shall be deemed to have been received on the day of delivery if delivered by hand, facsimile or email (save to the extent such day is not a working day where it shall be deemed to have been delivered on the next working day) and on the second working day after the day of posting if sent by first class post.

12.10 The Contract constitutes the entire agreement between the parties and shall supersede all previous arrangements between the parties relating to the subject matter hereof.

12.11 Each of the provisions of the Contract is severable and distinct from the others and if one or more provisions is or should become invalid, illegal or unenforceable, the validity and enforceability of the remaining provisions shall not in any way be tainted or impaired.

12.12 This Contract shall be governed by and construed in accordance with English law and any proceedings arising out of or connected with this Contract shall be subject to the exclusive jurisdiction of the English courts.

12.13 GroundSure is an executive member of the Council of Property Search Organisation (CoPSO) and has signed up to the Search Code administered by the Property Codes Compliance Board (PCCB). All Risk Screening Reports shall be supplied in accordance with the provisions of the Search Code.

12.14 If the Client or Beneficiary has a complaint about the Services, written notice should be given to the Compliance Officer at GroundSure who will respond in a timely manner.

12.15 The Client agrees that it shall, and shall procure that each Beneficiary shall, treat in confidence all Confidential information and shall not, and shall procure that each Beneficiary shall not (i) disclose any Confidential Information to any third party other than in accordance with the terms of this Contract; and (ii) use Confidential Information for a purpose other than the exercise of its rights and obligations under this Contract. Subject to clause 6.6, nothing shall prevent the Client or any Beneficiary from disclosing Confidential information to the extent required by law

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