

GroundSure EnvirolInsight

Address: Brookbarn Farm, Courtwick Lane, Wick, Littlehampton, West Sussex, BN17 7PE,
Date: 10 Dec 2014
Reference: EMS-279596_378768
Client: EmapSite



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

Contents Page

Contents Page	3
Overview of Findings.....	5
Using this report.....	9
1. Environmental Permits, Incidents and Registers Map.....	10
1. Environmental Permits, Incidents and Registers.....	11
1.1 Industrial Sites Holding Licences and/or Authorisations.....	11
1.1.1 Records of historic IPC Authorisations within 500m of the study site:.....	11
1.1.2 Records of Part A(1) and IPPC Authorised Activities within 500m of the study site:.....	11
1.1.3 Records of Water Industry Referrals (potentially harmful discharges to the public sewer) within 500m of the study site:.....	11
1.1.4 Records of Red List Discharge Consents (potentially harmful discharges to controlled waters) within 500m of the study site:.....	11
1.1.5 Records of List 1 Dangerous Substances Inventory Sites within 500m of the study site:.....	11
1.1.6 Records of List 2 Dangerous Substance Inventory Sites within 500m of the study site:.....	12
1.1.7 Records of Part A(2) and Part B Activities and Enforcements within 500m of the study site:	12
1.1.8 Records of Category 3 or 4 Radioactive Substances Authorisations:.....	12
1.1.9 Records of Licensed Discharge Consents within 500m of the study site:.....	12
1.1.10 Records of Planning Hazardous Substance Consents and Enforcements within 500m of the study site:.....	13
1.2 Dangerous or Hazardous Sites.....	13
1.3 Environment Agency Recorded Pollution Incidents.....	13
1.3.1 Records of National Incidents Recording System, List 2 within 500m of the study site:.....	13
1.3.2 Records of National Incidents Recording System, List 1 within 500m of the study site:.....	14
1.4 Sites Determined as Contaminated Land under Part 2A EPA 1990.....	14
2. Landfill and Other Waste Sites Map.....	15
2. Landfill and Other Waste Sites.....	16
2.1 Landfill Sites.....	16
2.1.1 Records from Environment Agency landfill data within 1000m of the study site:	16
2.1.2 Records of Environment Agency historic landfill sites within 1500m of the study site:	16
2.1.3 Records of BGS/DoE non-operational landfill sites within 1500m of the study site:.....	17
2.1.4 Records of Local Authority landfill sites within 1500m of the study site:.....	17
2.2 Other Waste Sites.....	17
2.2.1 Records of waste treatment, transfer or disposal sites within 500m of the study site:	17
2.2.2 Records of Environment Agency licensed waste sites within 1500m of the study site:	18
3. Current Land Use Map.....	21
3. Current Land Uses.....	22
3.1 Current Industrial Data.....	22
3.2 Petrol and Fuel Sites.....	22
3.3 Underground High Pressure Oil and Gas Pipelines.....	22
4. Geology.....	23
4.1 Artificial Ground and Made Ground.....	23
4.2 Superficial Ground and Drift Geology	23
4.3 Bedrock and Solid Geology	23
5. Hydrogeology and Hydrology.....	24
5a. Aquifer Within Superficial Geology.....	24
5b. Aquifer Within Bedrock Geology and Abstraction Licenses.....	25
5c. Hydrogeology – Source Protection Zones and Potable Water Abstraction Licenses.....	26
5d. Hydrology Source Protection Zones within confined aquifer.....	27
5 e. Hydrology – Detailed River Network and River Quality.....	28
5. Hydrogeology and Hydrology.....	29
5.1 Aquifer within Superficial Deposits.....	29
5.2 Aquifer within Bedrock Deposits.....	29

5.3 Groundwater Abstraction Licences.....	30
5.4 Surface Water Abstraction Licences.....	32
5.5 Potable Water Abstraction Licences.....	34
5.6 Source Protection Zones.....	34
5.7 Source Protection Zones within Confined Aquifer.....	35
5.8 Groundwater Vulnerability and Soil Leaching Potential.....	35
5.9 River Quality.....	35
5.9.1 Biological Quality.....	35
5.9.2 Chemical Quality.....	36
5.10 Detailed River Network.....	37
5.11 Surface Water Features	39
6. Environment Agency Flood Map for planning (from rivers and the sea).....	40
6. Flooding.....	41
6.1 Zone 2 Flooding.....	41
6.2 Zone 3 Flooding.....	44
6.3 Flood Defences.....	46
6.4 Areas benefiting from Flood Defences.....	46
6.5 Areas benefiting from Flood Storage.....	46
6.6 Groundwater Flooding Susceptibility Areas.....	46
6.6.1 Are there any British Geological Survey groundwater flooding susceptibility areas within 50m of the boundary of the study site?.....	46
6.6.2 What is the highest susceptibility to groundwater flooding in the search area based on the underlying geological conditions?.....	47
6.7 Groundwater Flooding Confidence Areas.....	47
7. Designated Environmentally Sensitive Sites Map.....	48
7. Designated Environmentally Sensitive Sites.....	49
7.1 Records of Sites of Special Scientific Interest (SSSI) within 2000m of the study site:.....	49
7.2 Records of National Nature Reserves (NNR) within 2000m of the study site:.....	49
7.3 Records of Special Areas of Conservation (SAC) within 2000m of the study site:.....	49
7.4 Records of Special Protection Areas (SPA) within 2000m of the study site:.....	49
7.5 Records of Ramsar sites within 2000m of the study site:.....	49
7.6 Records of Ancient Woodland within 2000m of the study site:	50
7.7 Records of Local Nature Reserves (LNR) within 2000m of the study site:.....	50
7.8 Records of World Heritage Sites within 2000m of the study site:.....	50
7.9 Records of Environmentally Sensitive Areas within 2000m of the study site:	50
7.10 Records of Areas of Outstanding Natural Beauty (AONB) within 2000m of the study site:	50
7.11 Records of National Parks (NP) within 2000m of the study site:	51
7.12 Records of Nitrate Sensitive Areas within 2000m of the study site:.....	51
7.13 Records of Nitrate Vulnerable Zones within 2000m of the study site:.....	51
8. Natural Hazards Findings.....	52
8.1 Detailed BGS GeoSure Data.....	52
8.1.1 Shrink Swell.....	52
8.1.2 Landslides.....	52
8.1.3 Soluble Rocks.....	53
8.1.4 Compressible Ground.....	53
8.1.5 Collapsible Rocks.....	53
8.1.6 Running Sand.....	54
9. Mining.....	55
9.1 Coal Mining.....	55
9.2 Shallow Mining.....	55
9.3 Brine Affected Areas	55
Contact Details.....	56
Standard Terms and Conditions.....	57

Overview of Findings

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

Section 1: Environmental Permits, Incidents and Registers		On-site	0-50m	51-250	251-500		
1.1 Industrial Sites Holding Environmental Permits and/or Authorisations							
1.1.1	Records of historic IPC Authorisations	0	0	0	0		
1.1.2	Records of Part A(1) and IPPC Authorised Activities	0	0	0	0		
1.1.3	Records of Water Industry Referrals (potentially harmful discharges to the public sewer)	0	0	0	0		
1.1.4	Records of Red List Discharge Consents (potentially harmful discharges to controlled waters)	0	0	0	0		
1.1.5	Records of List 1 Dangerous Substances Inventory sites	0	0	0	0		
1.1.6	Records of List 2 Dangerous Substances Inventory sites	0	0	0	0		
1.1.7	Records of Part A(2) and Part B Activities and Enforcements	0	0	0	0		
1.1.8	Records of Category 3 or 4 Radioactive Substances Authorisations	0	0	0	0		
1.1.9	Records of Licensed Discharge Consents	0	0	4	3		
1.1.10	Records of Planning Hazardous Substance Consents and Enforcements	0	0	0	0		
1.2	Records of COMAH and NIHHS sites	0	0	0	0		
1.3 Environment Agency Recorded Pollution Incidents							
1.3.1	National Incidents Recording System, List 2	0	0	2	5		
1.3.2	National Incidents Recording System, List 1	0	0	0	0		
1.4	Sites Determined as Contaminated Land under Part 2A EPA 1990	0	0	0	0		
Section 2: Landfill and Other Waste Sites		On-site	0-50m	51-250	251-500	501-1000	1000-5000
2.1 Landfill Sites							
2.1.1	Environment Agency Registered Landfill Sites	0	0	0	1	0	Not searched
2.1.2	Environment Agency Historic Landfill Sites	1	1	0	0	0	5
2.1.3	BGS/DoE Landfill Site Survey	0	0	0	0	0	0
2.1.4	GroundSure Local Authority Landfill Sites Data	0	0	0	0	0	0
2.2 Landfill and Other Waste Sites Findings							
2.2.1	Operational and Non-Operational Waste Treatment, Transfer and Disposal Sites	0	0	0	0	Not searched	Not searched
2.2.2	Environment Agency Licensed Waste Sites	0	0	0	2	3	7

Section 3: Current Land Use	On-site	0-50m	51-250	251-500
3.1 Current Industrial Sites Data	0	0	2	Not searched
3.2 Records of Petrol and Fuel Sites	0	0	0	0
3.3 Underground High Pressure Oil and Gas Pipelines	0	0	0	0

Section 4: Geology	
4.1 Are there any records of Artificial Ground and Made Ground present beneath the study site?	Yes
4.2 Are there any records of Superficial Ground and Drift Geology present beneath the study site?	Yes
4.3 For records of Bedrock and Solid Geology beneath the study site see the detailed findings section.	

Section 5: Hydrogeology and Hydrology	0-500m					
5.1 Are there any records of Strata Classification in the Superficial Geology within 500m of the study site?	Yes					
5.2 Are there any records of Strata Classification in the Bedrock Geology within 500m of the study site?	Yes					
	On-site	0-50m	51-250	251-500	501-1000	1000-2000
5.3 Groundwater Abstraction Licences (within 2000m of the study site)	0	2	3	5	2	7
5.4 Surface Water Abstraction Licences (within 2000m of the study site)	0	1	1	0	1	7
5.5 Potable Water Abstraction Licences (within 2000m of the study site)	0	0	0	0	0	1
5.6 Source Protection Zones (within 500m of the study site)	0	0	0	0	Not searched	Not searched
5.7 Source Protection Zones within Confined Aquifer	0	0	0	0	Not searched	Not searched
5.8 Groundwater Vulnerability and Soil Leaching Potential (within 500m of the study site)	2	0	1	1	Not searched	Not searched
	On-site	0-50m	51-250	251-500	501-1000	1000-1500
5.9 Is there any Environment Agency information on river quality within 1500m of the study site?	No	No	No	No	No	No
5.10 Detailed River Network entries within 500m of the site	0	6	10	17	Not searched	Not searched
5.11 Surface water features within 250m of the study site	Yes	Yes	Yes	Not searched	Not searched	Not searched

Section 6: Flooding

6.1 Are there any Environment Agency Zone 2 floodplains within 250m of the study site?	Yes
6.2 Are there any Environment Agency Zone 3 floodplains within 250m of the study site?	Yes
6.3 Are there any Flood Defences within 250m of the study site?	Yes
6.4 Are there any areas benefiting from Flood Defences within 250m of the study site?	No
6.5 Are there any areas used for Flood Storage within 250m of the study site?	No
6.6 What is the maximum BGS Groundwater Flooding susceptibility within 50m of the study site?	Potential at Surface
6.7 What is the BGS confidence rating for the Groundwater Flooding susceptibility areas?	High

Section 7: Designated Environmentally Sensitive Sites

	On-site	0-50m	51-250	251-500	501-1000	1000-2000
7.1 Records of Sites of Special Scientific Interest (SSSI)	0	0	0	0	0	0
7.2 Records of National Nature Reserves (NNR)	0	0	0	0	0	0
7.3 Records of Special Areas of Conservation (SAC)	0	0	0	0	0	0
7.4 Records of Special Protection Areas (SPA)	0	0	0	0	0	0
7.5 Records of Ramsar sites	0	0	0	0	0	0
7.6 Records of Ancient Woodlands	0	0	0	0	0	2
7.7 Records of Local Nature Reserves (LNR)	0	0	0	0	0	0
7.8 Records of World Heritage Sites	0	0	0	0	0	0
7.9 Records of Environmentally Sensitive Areas	0	0	0	0	0	0
7.10 Records of Areas of Outstanding Natural Beauty (AONB)	0	0	0	0	0	0
7.11 Records of National Parks	0	0	0	0	0	1
7.12 Records of Nitrate Sensitive Areas	0	0	0	0	0	0
7.13 Records of Nitrate Vulnerable Zones	1	0	0	0	0	0

Section 8: Natural Hazards

8.1 What is the maximum risk of natural ground subsidence?	Very Low
8.1.1 What is the maximum Shrink-Swell hazard rating identified on the study site?	Negligible
8.1.2 What is the maximum Landslides hazard rating identified on the study site?	Very Low
8.1.3 What is the maximum Soluble Rocks hazard rating identified on the study site?	Very Low
8.1.4 What is the maximum Compressible Ground hazard rating identified on the study site?	Very Low
8.1.5 What is the maximum Collapsible Rocks hazard rating identified on the study site?	Very Low
8.1.6 What is the maximum Running Sand hazard rating identified on the study site?	Very Low

Section 9: Mining

9.1 Are there any coal mining areas within 75m of the study site?	No
9.2 What is the risk of subsidence relating to shallow mining within 150m of the study site?	Low
9.3 Are there any brine affected areas within 75m of the study site?	No

Using this report

The following report is designed by Environmental Consultants for Environmental Professionals bringing together the most up-to-date market leading environmental data. This report is provided under and subject to the Terms & Conditions agreed between GroundSure and the Client. The document contains the following sections:

1. Environmental Permits, Incidents and Registers

Provides information on Regulated Industrial Activities and Pollution Incidents as recorded by Regulatory Authorities, and sites determined as Contaminated Land. This search is conducted using radii up to 500m.

2. Landfills and Other Waste Sites

Provides information on landfills and other waste sites that may pose a risk to the study site. This search is conducted using radii up to 1500m.

3. Current Land Uses

Provides information on current land uses that may pose a risk to the study site in terms of potential contamination from activities or processes. These searches are conducted using radii of up to 500m. This includes information on potentially contaminative industrial sites, petrol stations and fuel sites as well as high pressure underground oil and gas pipelines.

4. Geology

Provides information on artificial and superficial deposits and bedrock beneath the study site.

5. Hydrogeology and Hydrology

Provides information on productive strata within the bedrock and superficial geological layers, abstraction licenses, Source Protection Zones (SPZs) and river quality. These searches are conducted using radii of up to 2000m.

6. Flooding

Provides information on surface water flooding, flood defences, flood storage areas and groundwater flood areas. This search is conducted using radii of up to 250m.

7. Designated Environmentally Sensitive Sites

Provides information on the Sites of Special Scientific Interest (SSSI), National Nature Reserves (NNR), Special Areas of Conservation (SAC), Special Protection Areas (SPA), Ramsar sites, Local Nature Reserves (LNR), Areas of Outstanding Natural Beauty (AONB), National Parks (NP), Environmentally Sensitive Areas, Nitrate Sensitive Areas, Nitrate Vulnerable Zones and World Heritage Sites and Scheduled Ancient Woodland. These searches are conducted using radii of up to 2000m.

8. Natural Hazards

Provides information on a range of natural hazards that may pose a risk to the study site. These factors include natural ground subsidence.

9. Mining

Provides information on areas of coal and shallow mining.

10. Contacts

This section of the report provides contact points for statutory bodies and data providers that may be able to provide further information on issues raised within this report. Alternatively, GroundSure provide a free Technical Helpline (08444 159000) for further information and guidance.

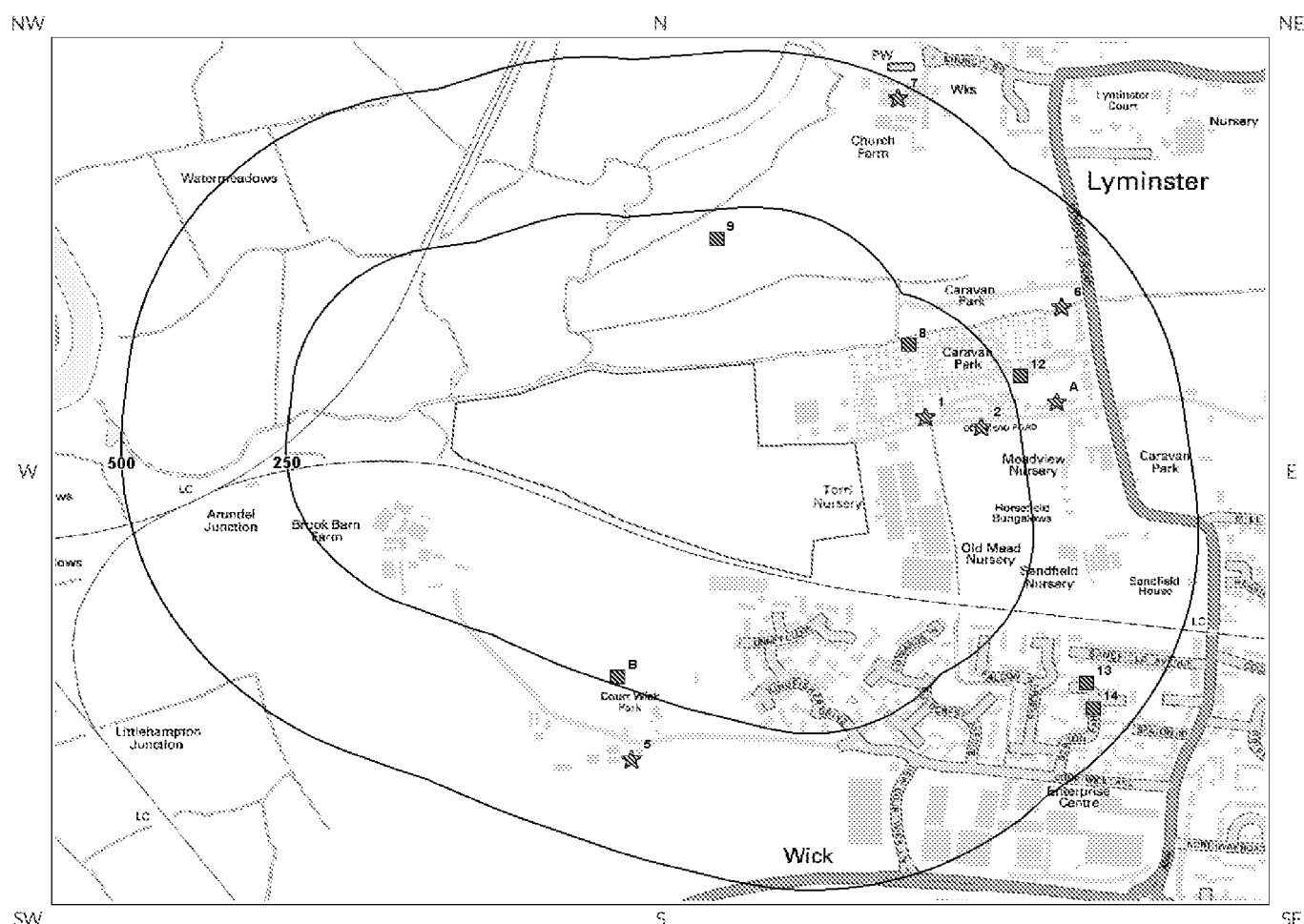
Note: Maps

Only certain features are placed on the maps within the report. All features represented on maps found within this search are given an identification number. This number identifies the feature on the mapping and correlates it to the additional information provided below. This identification number precedes all other information and takes the following format -Id: 1, Id: 2, etc. Where numerous features on the same map are in such close proximity that the numbers would obscure each other a letter identifier is used instead to represent the features. (e.g. Three features which overlap may be given the identifier "A" on the map and would be identified separately as features 1A, 3A, 10A on the data tables provided).

Where a feature is reported in the data tables to a distance greater than the map area, it is noted in the data table as "Not Shown".

All distances given in this report are in Metres (m). Directions are given as compass headings such as N: North, E: East, NE: North East from the nearest point of the study site boundary.

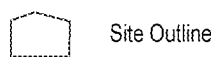
1. Environmental Permits, Incidents and Registers Map



Environmental Permits,
Incidents and Registers Legend



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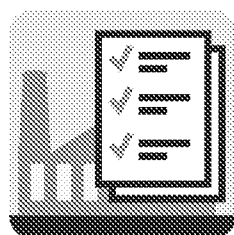
Site Outline

— 250 —
— 500 — Search Buffers (m)

- ★ Recorded Pollution Incident
- ◆ Dangerous Substances (List 1)
- ◇ Dangerous Substances (List 2)
- Water Industry Referrals
- ▨ Licenced Discharge Consents
- Red List Discharge Consents

- ▼ RAS 3 & 4 Authorisations
- ▲ Part A(1) Authorised Processes and Historic IPC Authorisations
- ▲ Part A(2) and Part B Authorised Processes
- ⬢ COMAH / NIHHS Sites
- ▨ Sites Determined as Contaminated Land
- Hazardous Substance Consents and Enforcements

Report Reference: EMS-279596_378768
Client Reference: EMS_279596_378768



1. Environmental Permits, Incidents and Registers

1.1 Industrial Sites Holding Licences and/or Authorisations

Searches of information provided by the Environment Agency and Local Authorities reveal the following information:

1.1.1 Records of historic IPC Authorisations within 500m of the study site:

0

Database searched and no data found.

1.1.2 Records of Part A(1) and IPPC Authorised Activities within 500m of the study site:

0

Database searched and no data found.

1.1.3 Records of Water Industry Referrals (potentially harmful discharges to the public sewer) within 500m of the study site:

0

Database searched and no data found.

1.1.4 Records of Red List Discharge Consents (potentially harmful discharges to controlled waters) within 500m of the study site:

0

Database searched and no data found.

1.1.5 Records of List 1 Dangerous Substances Inventory Sites within 500m of the study site:

0

Database searched and no data found.

1.1.6 Records of List 2 Dangerous Substance Inventory Sites within 500m of the study site:

0

Database searched and no data found.

1.1.7 Records of Part A(2) and Part B Activities and Enforcements within 500m of the study site:

0

Database searched and no data found.

1.1.8 Records of Category 3 or 4 Radioactive Substances Authorisations:

0

Database searched and no data found.

1.1.9 Records of Licensed Discharge Consents within 500m of the study site:

7

The following Licensed Discharge Consents records are represented as points on the Environmental Permits, Incidents and Registers Map:

ID	Distance	Direction	NGR	Details
8	176.0	NE	502290 104330	Address: Extension To Caravan Park, Extension To Caravan Park, Thornlea Park, Lymminster Road, Littlehampton West Sussex Effluent Type: Miscellaneous Discharges - Surface Water Permit Number: N02119 Permit Version: 1 Receiving Water: Saline Estuary Status: Lapsed Under Schedule 23 Environment Act 1995 Issue date: 21/8/1974 Effective Date: 21/8/1974 Revocation Date: 31/3/1997
9	204.0	N	502000 104500	Address: Church Farm, Church Farm, Lymminster, Nr Littlehampton, West Sussex Effluent Type: Unspecified Permit Number: S02103 Permit Version: 1 Receiving Water: Saline Estuary Status: Pre Nra Legislation Where Issue Date < 01-sep-89 (historic Only) Issue date: 31/7/1972 Effective Date: 31/7/1972 Revocation Date: 19/6/1995
10 B	237.0	S	501850 103800	Address: Courtwick Park, Littlehampton, Courtwick Park, Courtwick Lane, Littlehampton, West Sussex, BN17 7PD Effluent Type: Sewage Discharges - Final/treated Effluent - Not Water Company Permit Number: P11165 Permit Version: 1 Receiving Water: Soakaway Status: New Consent (wra 91, S88 & Sched 10 As Amended By Env Act 1995) Issue date: 13/6/2003 Effective Date: 13/6/2003 Revocation Date: -
11 B	237.0	S	501850 103800	Address: Courtwick Park, Littlehampton, Courtwick Park, Courtwick Lane, Littlehampton, West Sussex, BN17 7PD Effluent Type: Sewage Discharges - Final/treated Effluent - Not Water Company Permit Number: P11165 Permit Version: 2 Receiving Water: Soakaway Status: Varied Under Epr 2010 Issue date: - Effective Date: - Revocation Date: -

ID	Distance	Direction	NGR	Details
12	272.0	NE	502460 104280	Address: Bungalow In Old Mead Lane, Bungalow In Old Mead Lane, Lyminster, Littlehampton Effluent Type: Miscellaneous Discharges - Surface Water Permit Number: S02833 Permit Version: 1 Receiving Water: Freshwater River Status: Pre Nra Legislation Where issue Date < 01-sep-89 (historic Only) Issue date: 22/7/1960 Effective Date: 22/7/1960 Revocation Date: 1/7/1991
13	408.0	SE	502560 103790	Address: Land North Of Court Wick Lane, Land North Of Court Wick Lane, Littlehampton West Sussex Effluent Type: Miscellaneous Discharges - Surface Water Permit Number: S01569 Permit Version: 1 Receiving Water: Controlled Sea Status: Lapsed Under Schedule 23 Environment Act 1995 Issue date: 30/3/1967 Effective Date: 30/3/1967 Revocation Date: 31/3/1997
14	440.0	SE	502570 103750	Address: Land North Of Court Wick Lane, Land North Of Court Wick Lane, Littlehampton West Sussex Effluent Type: Miscellaneous Discharges - Surface Water Permit Number: S01569 Permit Version: 1 Receiving Water: Controlled Sea Status: Lapsed Under Schedule 23 Environment Act 1995 Issue date: 30/3/1967 Effective Date: 30/3/1967 Revocation Date: 31/3/1997

1.1.10 Records of Planning Hazardous Substance Consents and Enforcements within 500m of the study site:

0

Database searched and no data found.

1.2 Dangerous or Hazardous Sites

Records of COMAH & NIHHS sites within 500m of the study site:

0

Database searched and no data found.

1.3 Environment Agency Recorded Pollution Incidents

1.3.1 Records of National Incidents Recording System, List 2 within 500m of the study site:

7

The following NIRS List 2 records are represented as points on the Environmental Permits, Incidents and Registers Map:

ID	Distance	Direction	NGR	Details
1	113.0	E	502315 104216	Incident Date: 21/09/2001 Incident Identification: 32137 Pollutant: Pollutant Not Identified Pollutant Description: Not Identified Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
2	192.0	E	502400 104200	Incident Date: 02/09/2003 Incident Identification: 186878 Pollutant: Specific Waste Materials Pollutant Description: Commercial Waste Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)

ID	Distance	Direction	NGR	Details	
3A	311.0	E	502514 104240	Incident Date: 19/07/2002 Incident Identification: 93010 Pollutant: Other Pollutant Pollutant Description: Other	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
4A	311.0	E	502514 104240	Incident Date: 19/07/2002 Incident Identification: 93010 Pollutant: Other Pollutant Pollutant Description: Other	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
5	353.0	S	501870 103669	Incident Date: 22/04/2003 Incident Identification: 153009 Pollutant: Inorganic Chemicals/Products Pollutant Description: Acids	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
6	380.0	NE	502521 104391	Incident Date: 14/11/2001 Incident Identification: 42781 Pollutant: Pollutant Not Identified Pollutant Description: Not Identified	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
7	477.0	NE	502273 104725	Incident Date: 10/12/2002 Incident Identification: 125460 Pollutant: Contaminated Water Pollutant Description: Firefighting Run-Off	Water Impact: Category 3 (Minor) Land Impact: Category 3 (Minor) Air Impact: Category 2 (Significant)

1.3.2 Records of National Incidents Recording System, List 1 within 500m of the study site:

0

Database searched and no data found.

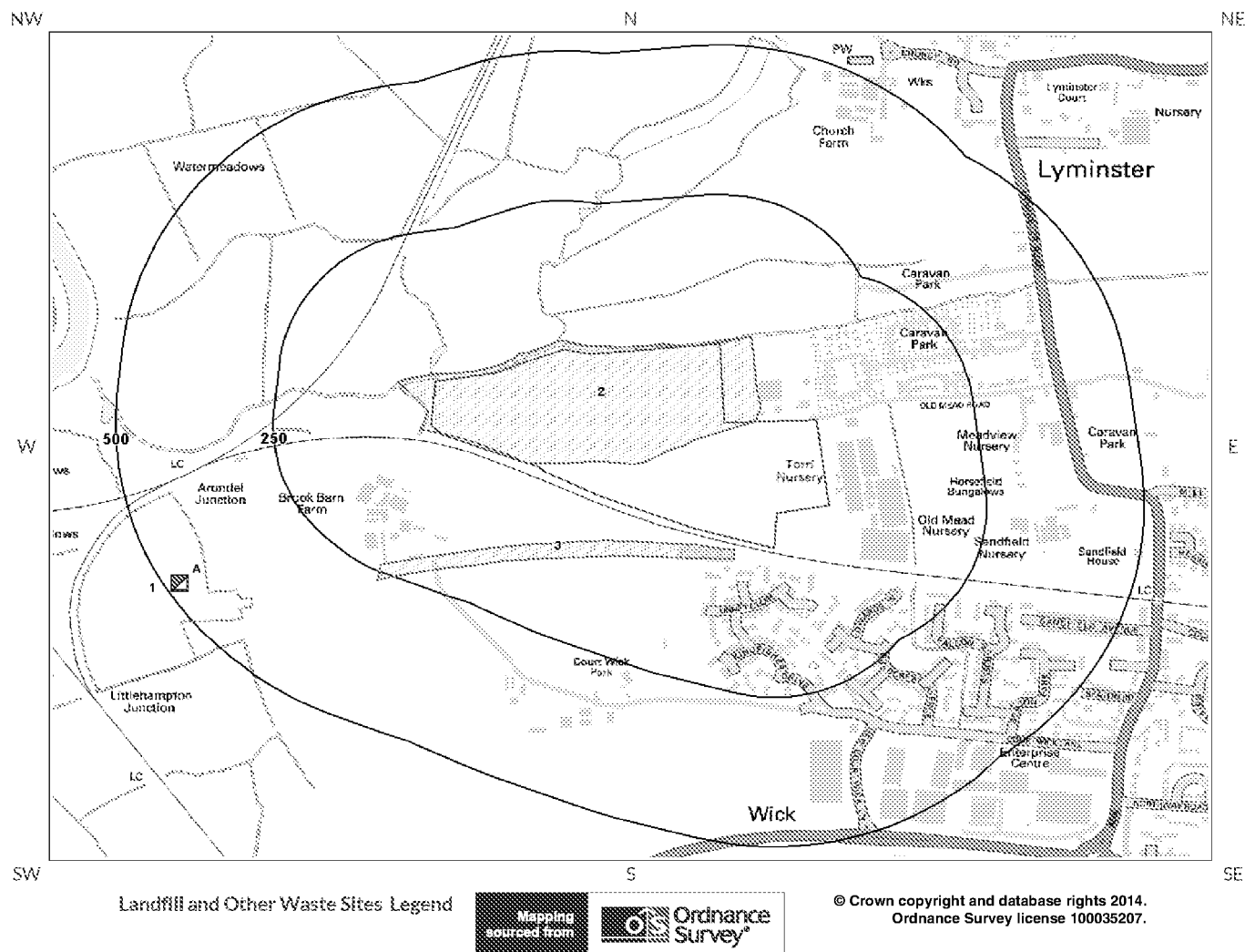
1.4 Sites Determined as Contaminated Land under Part 2A EPA 1990

How many records of sites determined as contaminated land under Section 78R of the Environmental Protection Act 1990 are there within 500m of the study site?

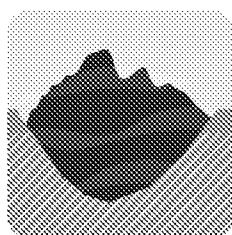
0

Database searched and no data found.

2. Landfill and Other Waste Sites Map



- | | | | | | |
|--|--------------------|--|--------------------------|--|----------------------------------|
| | Site Outline | | E.A. Active Landfill | | Historic and Planned Waste Sites |
| | Search Buffers (m) | | E.A. Historic Landfill | | E.A. Licensed Waste Site |
| | | | Local Authority Landfill | | BGS / DoE Survey Landfill |



2. Landfill and Other Waste Sites

2.1 Landfill Sites

2.1.1 Records from Environment Agency landfill data within 1000m of the study site:

1

The following Environment Agency landfill records are represented as polygons on the Landfill and Other Waste Sites map:

ID	Distance (m)	Direction	NGR	Details
1	404.0	SW	501200 103900	Address: Brookbarn Farm, Courtwick Lane, Wick, Littlehampton, West Sussex, BN17 7PE Landfill Reference: 19661.0 Environmental Permitting Regulations (Waste) Reference: FAR001 Landfill Type: A5 : Landfill taking Non-Biodegradable Wastes Operator: Farndell & Gates Ltd Status: Closure IPPC Reference: EPR Reference:

2.1.2 Records of Environment Agency historic landfill sites within 1500m of the study site:

7

The following landfill records are represented as either points or polygons on the Landfill and Other Waste Sites map:

ID	Distance (m)	Direction	NGR	Details
2	0.0	On Site	501800 104200	Site Address: Old Mead Road Tip, Littlehampton, Sussex Waste Licence: Yes Site Reference: 27-329, WD27/151, WD13/12, WD13/79 Waste Type: Inert, Industrial, Commercial, Household, Special, Liquid sludge, Environmental Permitting Regulations (Waste) Reference: - Licence Issue: 13-Jun-1977 Licence Surrendered: 13-Oct-1984 Licence Hold Address: - Operator: -
3	19.0	S	501700 103900	Site Address: Brook Barn Farm, Littlehampton, Sussex Waste Licence: Yes Site Reference: WD27/248 Waste Type: Inert, Industrial, Environmental Permitting Regulations (Waste) Reference: - Licence Issue: 01-Jan-1976 Licence Surrendered: Licence Hold Address: - Operator: -
Not shown	1046.0	S	501500 103000	Site Address: Wick Farm, Littlehampton, Sussex Waste Licence: - Site Reference: WD27/152 Waste Type: - Environmental Permitting Regulations (Waste) Reference: - Licence Issue: Licence Surrendered: Licence Hold Address: - Operator: -

ID	Distance (m)	Direction	NGR	Details
Not shown	1176.0	S	501400 102600	Site Address: Ferry Road North, Littlehampton, Sussex Waste Licence: Yes Site Reference: WD27/48a, WD27/148a Waste Type: Inert, Industrial, Commercial, Household, Environmental Permitting Regulations (Waste) Reference: - Licence Issue: 01-Jan-1976 Licence Surrendered: Licence Hold Address: - Operator: Littlehampton Urban District Council
Not shown	1267.0	SE	503300 103200	Site Address: Cornfield Close Caravan Site, Worthing Road, Littlehampton, Sussex Waste Licence: Yes Site Reference: WD27/153 Waste Type: Inert, Commercial, Household, Environmental Permitting Regulations (Waste) Reference: - Licence Issue: 01-Jan-1976 Licence Surrendered: Licence Hold Address: - Operator: -
Not shown	1341.0	E	503500 104500	Site Address: Fargro, Toddington Lane, Littlehampton Waste Licence: Yes Site Reference: WD27/255, WD13/5/36 Waste Type: Commercial, Household, Environmental Permitting Regulations (Waste) Reference: - Licence Issue: 11-Apr-1980 Licence Surrendered: 17-Nov-1980 Licence Hold Address: - Operator: -
Not shown	1496.0	SW	500600 102800	Site Address: Ford Prison, Climping, Sussex Waste Licence: Yes Site Reference: WD13/5/8, WD27/114 Waste Type: Inert, Industrial, Environmental Permitting Regulations (Waste) Reference: - Licence Issue: 01-Jan-1976 Licence Surrendered: Licence Hold Address: - Operator: -

2.1.3 Records of BGS/DoE non-operational landfill sites within 1500m of the study site:

0

Database searched and no data found.

2.1.4 Records of Local Authority landfill sites within 1500m of the study site:

0

Database searched and no data found.

2.2 Other Waste Sites

2.2.1 Records of waste treatment, transfer or disposal sites within 500m of the study site:

0

Database searched and no data found.

2.2.2 Records of Environment Agency licensed waste sites within 1500m of the study site:

12

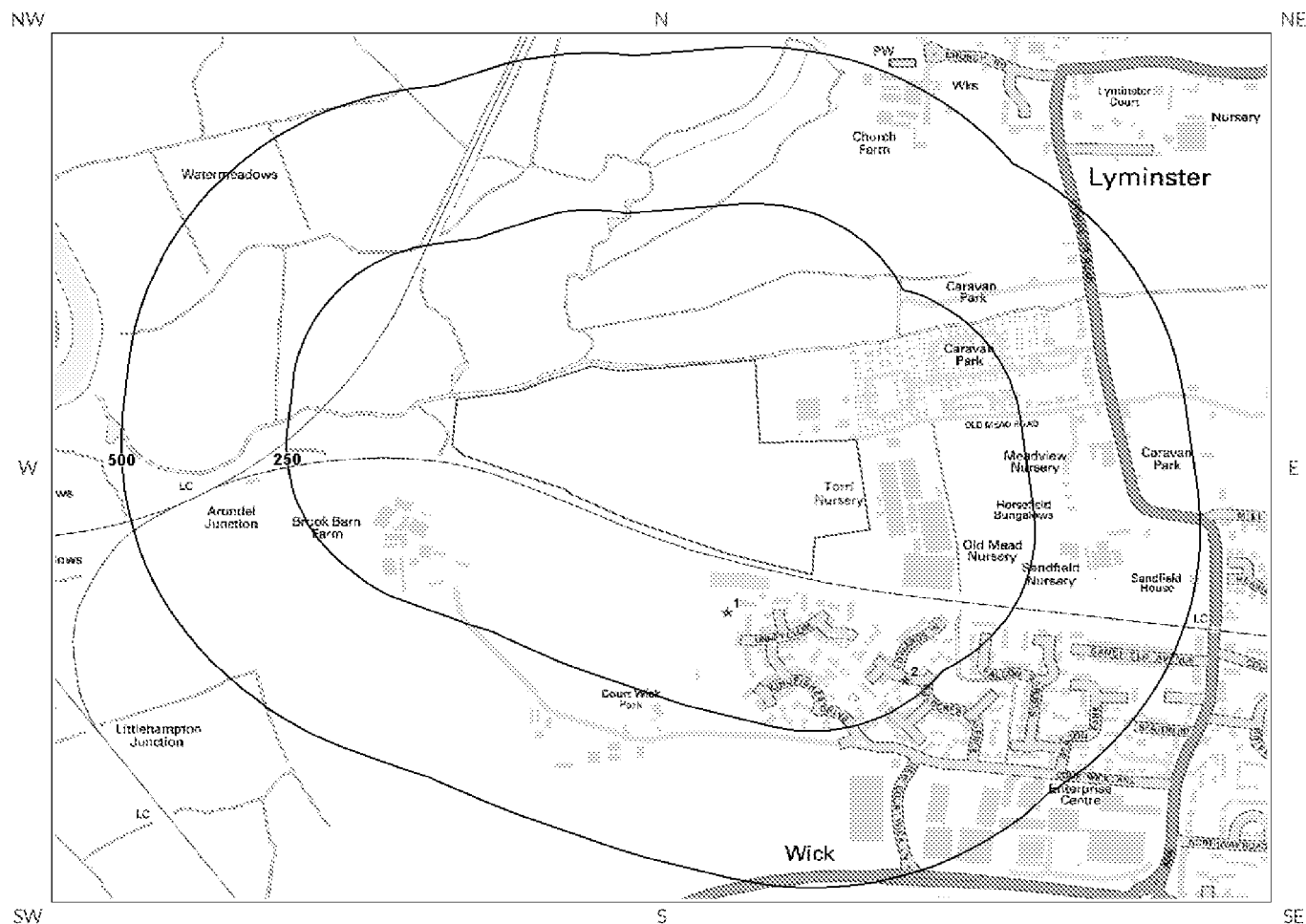
The following waste treatment, transfer or disposal sites records are represented as points on the Landfill and Other Waste Sites map:

ID	Distance (m)	Direction	NGR	Details
9A	477.0	SW	501200 103900	Site Address: Brookbarn Farm, Courtwick Lane, Wick, Littlehampton, West Sussex, BN17 7PE Type: Landfill taking Non-Biodegradable Wastes Size: >= 25000 tonnes < 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: FAR001 EPR reference: - Operator: Farndell & Gates Ltd Waste Management licence No: 19661 Annual Tonnage: 26000.0 Issue Date: 24/05/1996 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Closure Site Name: Brookbarn Farm Correspondence Address: -, Robert House, Rudford Ind Estate, Ford, Arundel, West Sussex, BN18 0BD
10A	477.0	SW	501200 103900	Site Address: Brookbarn Farm, Courtwick Lane, Wick, Littlehampton, West Sussex, BN17 7PE Type: Landfill taking Non-Biodegradable Wastes Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: FAR001 EPR reference: EA/EPR/HP3794HS/A001 Operator: Farndell & Gates Ltd Waste Management licence No: 19661 Annual Tonnage: 26000.0 Issue Date: 24/05/1996 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Closure Site Name: Brookbarn Farm Correspondence Address: -, -
Not shown	687.0	E	502900 104200	Site Address: Littlehampton H W R C, Mill Lane, Littlehampton, West Sussex, BN17 7PH Type: Household, Commercial & Industrial Waste T Stn Size: >= 25000 tonnes < 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: VIR008 EPR reference: - Operator: Viridor Waste Management Ltd Waste Management licence No: 19684 Annual Tonnage: 26000.0 Issue Date: 01/09/1995 Effective Date: 28/05/2004 Modified: 17/11/1999 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Transferred Site Name: Littlehampton Civic Amenity Site Correspondence Address: -, Great Western House, Station Approach, Taunton, Somerset, TA1 1QW
Not shown	687.0	E	502900 104200	Site Address: Littlehampton H W R C, Mill Lane, Littlehampton, West Sussex, BN17 7PH Type: Household, Commercial & Industrial Waste T Stn Size: >= 25000 tonnes < 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: WYV002 EPR reference: - Operator: Wyvern Waste Services Ltd Waste Management licence No: 19684 Annual Tonnage: 26000.0 Issue Date: 01/09/1995 Effective Date: - Modified: 17/11/1999 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified Site Name: Littlehampton Civic Amenity Site Correspondence Address: -, Contract Office - Burgess Hill Transfer Station, Fairbridge Way, Burgess Hill, West Sussex, RH15 8AR
Not shown	687.0	E	502900 104200	Site Address: Littlehampton H W R C, Mill Lane, Littlehampton, West Sussex, BN17 7PH Type: Household Waste Amenity Site Size: >= 25000 tonnes < 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: VIR008 EPR reference: EA/EPR/ZP3094HX/V003 Operator: Viridor Waste Management Ltd Waste Management licence No: 19684 Annual Tonnage: 26000.0 Issue Date: 01/09/1995 Effective Date: 28/05/2004 Modified: 11/07/2005 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified Site Name: Littlehampton Civic Amenity Site Correspondence Address: -, -

ID	Distance (m)	Direction	NGR	Details	
Not shown	1192.0	E	503400 103800	Site Address: Tulley's Nurseries, Toddington Lane, Wick, Littlehampton, West Sussex, BN17 7PW Type: Landfill taking Non-Biodegradable Wastes Size: >= 25000 tonnes < 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: TUL001 EPR reference: - Operator: K C Tulley Nurseries Ltd Waste Management licence No: 19665 Annual Tonnage: 2000.0	Issue Date: 10/11/1993 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued Site Name: Tulley's Nurseries Correspondence Address: -, 1, Tulley Cottages, Littlehampton, West Sussex, BN17 7PW
Not shown	1192.0	E	503400 103800	Site Address: Tulley's Nurseries, Toddington Lane, Wick, Littlehampton, West Sussex, BN17 7PW Type: Landfill taking Non-Biodegradable Wastes Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: TUL001 EPR reference: EA/EPR/FP3594HD/A001 Operator: K C Tulley Nurseries Ltd Waste Management licence No: 19665 Annual Tonnage: 2000.0	Issue Date: 10/11/1993 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Closure Site Name: Tulley's Nurseries Correspondence Address: -, -
Not shown	1214.0	S	502250 102750	Site Address: Unit A, Fort Road Industrial Estate, Littlehampton, West Sussex, BN17 7QU Type: Clinical Waste Transfer Station Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: CLI001 EPR reference: - Operator: Cliniserve Ltd Waste Management licence No: 10147 Annual Tonnage: 0.0	Issue Date: 05/07/2006 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued Site Name: Fort Road Industrial Estate Clinical Waste Transfer Station Correspondence Address: -, 35, Bishops Cleeve, Austrey, Atherstone, Warwickshire, CV9 3EU
Not shown	1214.0	S	502250 102750	Site Address: Unit A, Fort Road Industrial Estate, Littlehampton, West Sussex, BN17 7QU Type: Clinical Waste Transfer Station Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: ETH013 EPR reference: FP3895LK/T001 Operator: Ethos Medical & Special Waste Ltd Waste Management licence No: 10147 Annual Tonnage: 5000.0	Issue Date: 05/07/2006 Effective Date: 05/03/2010 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Transferred Site Name: Fort Road Industrial Estate Clinical Waste Transfer Station Correspondence Address: -, -
Not shown	1214.0	S	502250 102750	Site Address: Unit A, Fort Road Industrial Estate, Littlehampton, West Sussex, BN17 7QU Type: Clinical Waste Transfer Station Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: ETH010 EPR reference: CP3196EH/T001 Operator: Ethos Recycling Ltd Waste Management licence No: 10147 Annual Tonnage: 5000.0	Issue Date: 05/07/2006 Effective Date: 06/04/2009 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Transferred Site Name: Fort Road Industrial Estate Clinical Waste Transfer Station Correspondence Address: -, -

ID	Distance (m)	Direction	NGR	Details	
Not shown	1314.0	S	502092 102646	Site Address: Unit A, Fort Road Industrial Estate, Littlehampton, West Sussex, BN17 7QU Type: Clinical Waste Transfer Station Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: MED040 EPR reference: EA/EPR/QP3536TW/V004 Operator: Medisort Ltd Waste Management licence No: 10147 Annual Tonnage: 20000.0	Issue Date: 05/07/2006 Effective Date: 01/07/2010 Modified: 17/01/2014 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified Site Name: Littlehampton Waste Treatment Plant Correspondence Address: -, -
Not shown	1329.0	S	501779 102680	Site Address: Units 15/16, Arndale Road, Lineside Ind Est, Littlehampton, West Sussex, BN17 7HD Type: Clinical Waste Transfer Station Size: < 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: SRC001 EPR reference: EA/EPR/EP3490SD/A001 Operator: S R C L Ltd Waste Management licence No: 101116 Annual Tonnage: 74999.0	Issue Date: 23/12/2009 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued Site Name: Littlehampton Waste Facility Correspondence Address: -, -

3. Current Land Use Map



Current Land Use Legend



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Site Outline



Search Buffers (m)



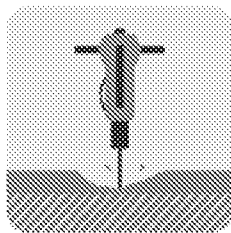
Current Industrial Sites



Petrol & Fuel Sites



Underground High Pressure Oil & Fuel Pipelines



3. Current Land Uses

3.1 Current Industrial Data

Records of potentially contaminative industrial sites within 250m of the study site:

2

The following records are represented as points on the Current Land Uses map.

ID	Distance (m)	Direction	Company	NGR	Address	Activity	Category
1	91.0	S	Electricity Sub Station	502014 103898	BN17	Electrical Features	Infrastructure and Facilities
2	220.0	SE	Electricity Sub Station	502283 103789	BN17	Electrical Features	Infrastructure and Facilities

3.2 Petrol and Fuel Sites

Records of petrol or fuel sites within 500m of the study site:

0

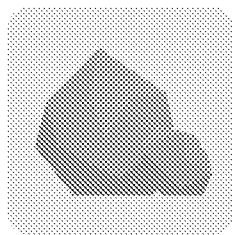
Database searched and no data found.

3.3 Underground High Pressure Oil and Gas Pipelines

Records of high pressure underground pipelines within 500m of the study site:

0

Database searched and no data found.



4. Geology

4.1 Artificial Ground and Made Ground

The database has been searched on site, including a 50m buffer.

Lex Code	Description	Rock Type
MGR-MGRD	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT

4.2 Superficial Ground and Drift Geology

The database has been searched on site, including a 50m buffer.

Lex Code	Description	Rock Type
RBD1-SAGR	RAISED BEACH DEPOSITS, 1	SAND AND GRAVEL
RMD-CSSG	RAISED MARINE DEPOSITS	CLAY, SILT, SAND AND GRAVEL

4.3 Bedrock and Solid Geology

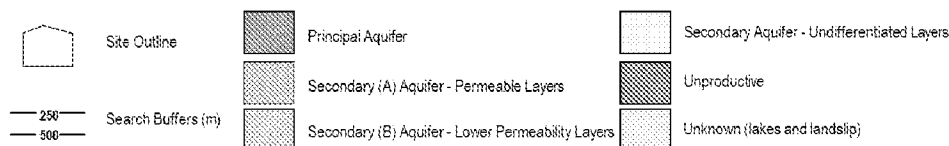
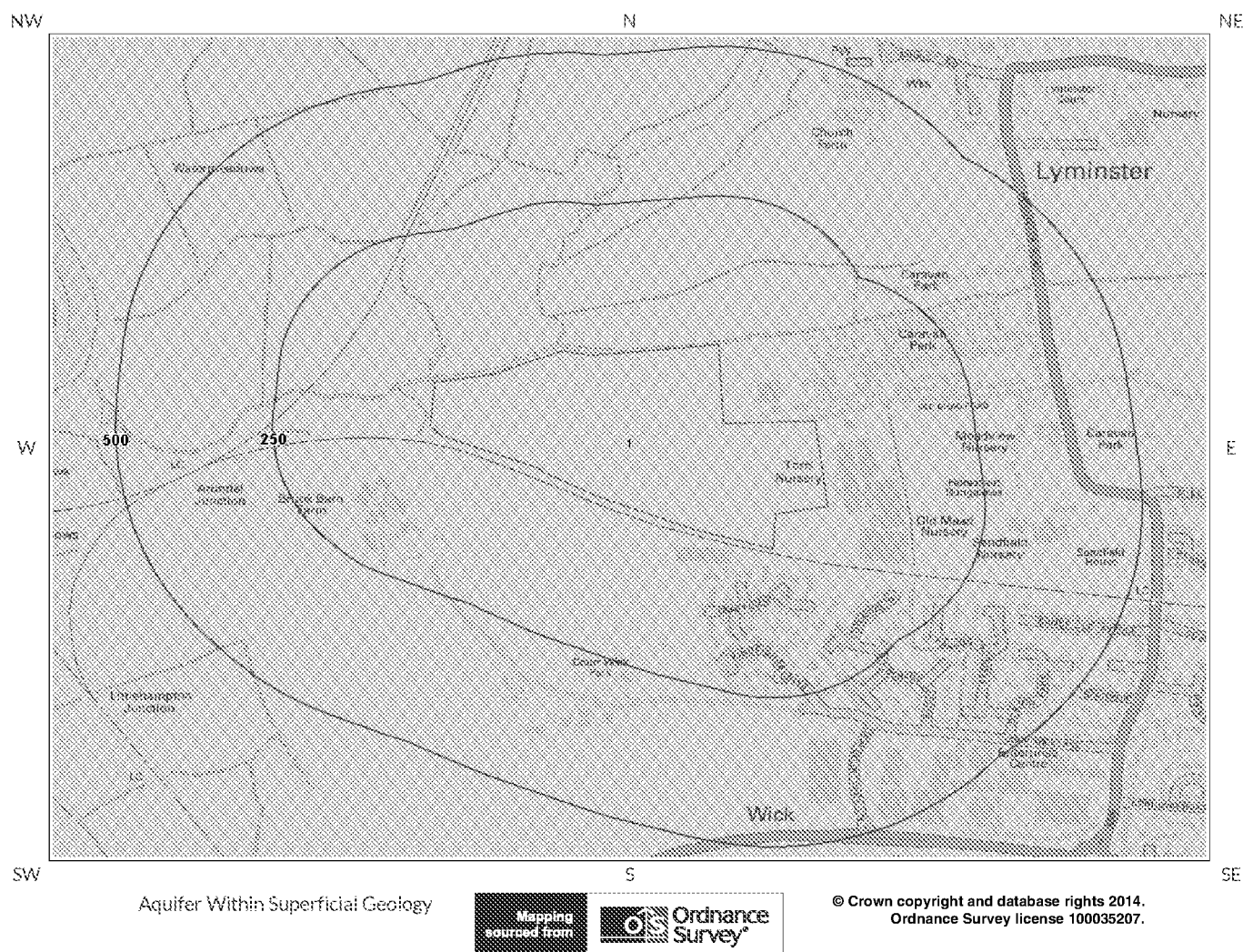
The database has been searched on site, including a 50m buffer.

Lex Code	Description	Rock Type
NPCH-CHLK	NEW PIT CHALK FORMATION	CHALK
LPCK-CHLK	LEWES NODULAR CHALK FORMATION, SEAFORD CHALK FORMATION, NEWHAVEN CHALK FORMATION, CULVER CHALK FORMATION AND PORTSDOWN CHALK FORMATION (UNDIFFERENTIATED)	CHALK

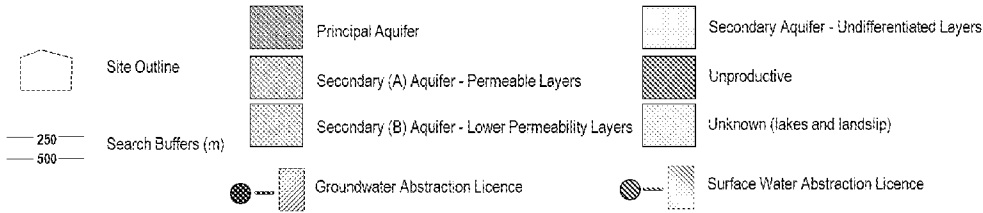
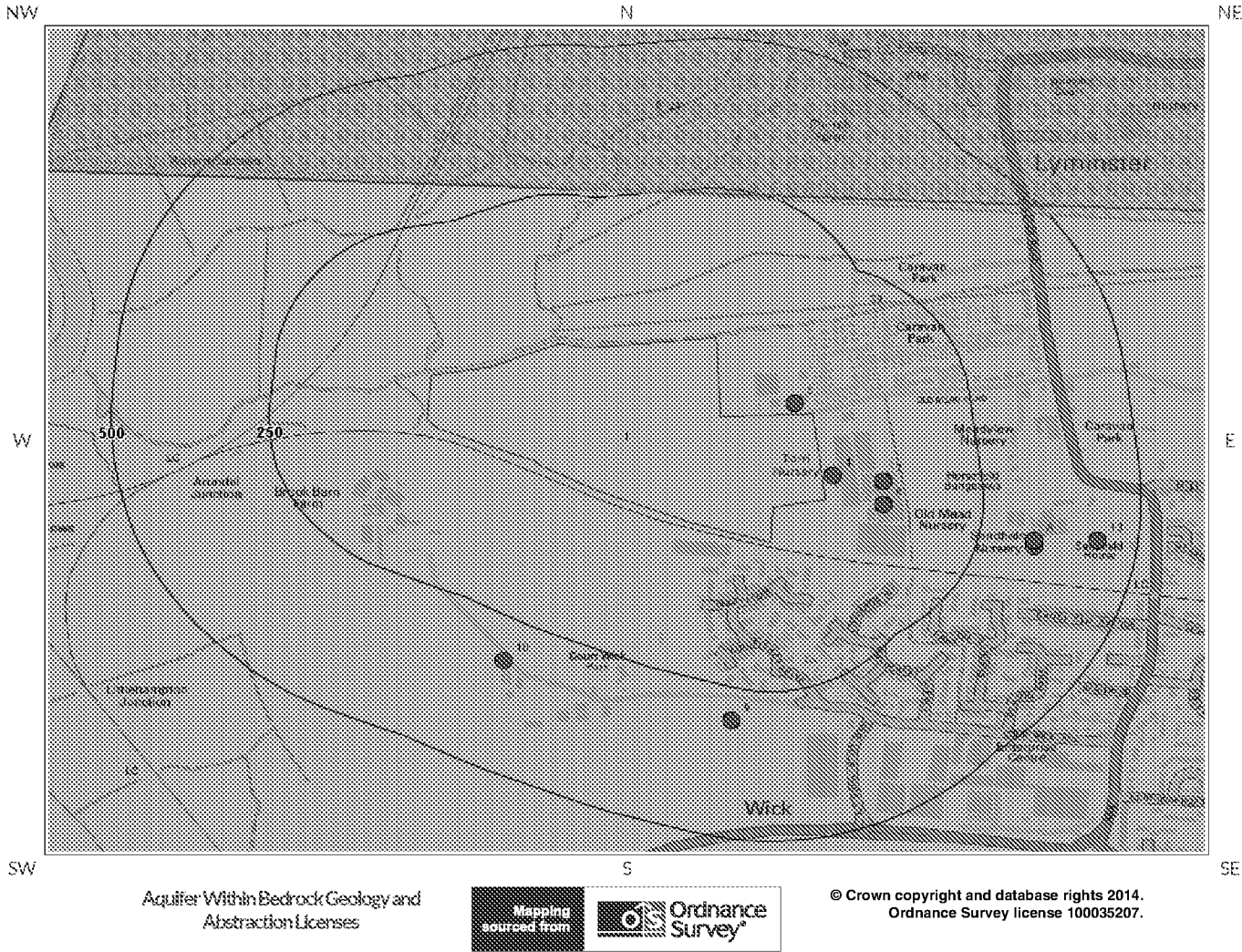
(Derived from the BGS 1:50,000 Digital Geological Map of Great Britain)

5. Hydrogeology and Hydrology

5a. Aquifer Within Superficial Geology

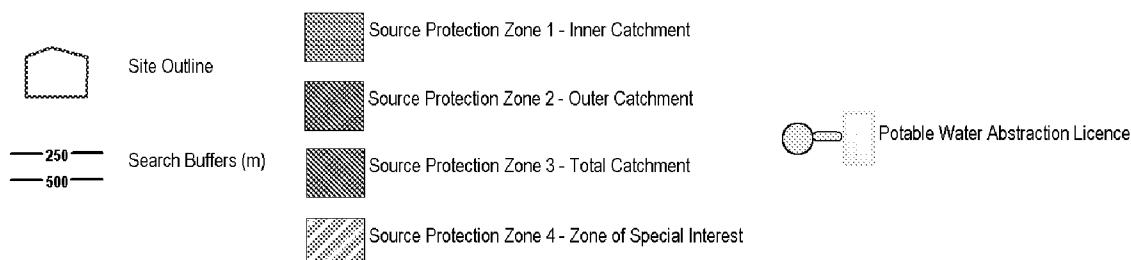


5b. Aquifer Within Bedrock Geology and Abstraction Licenses

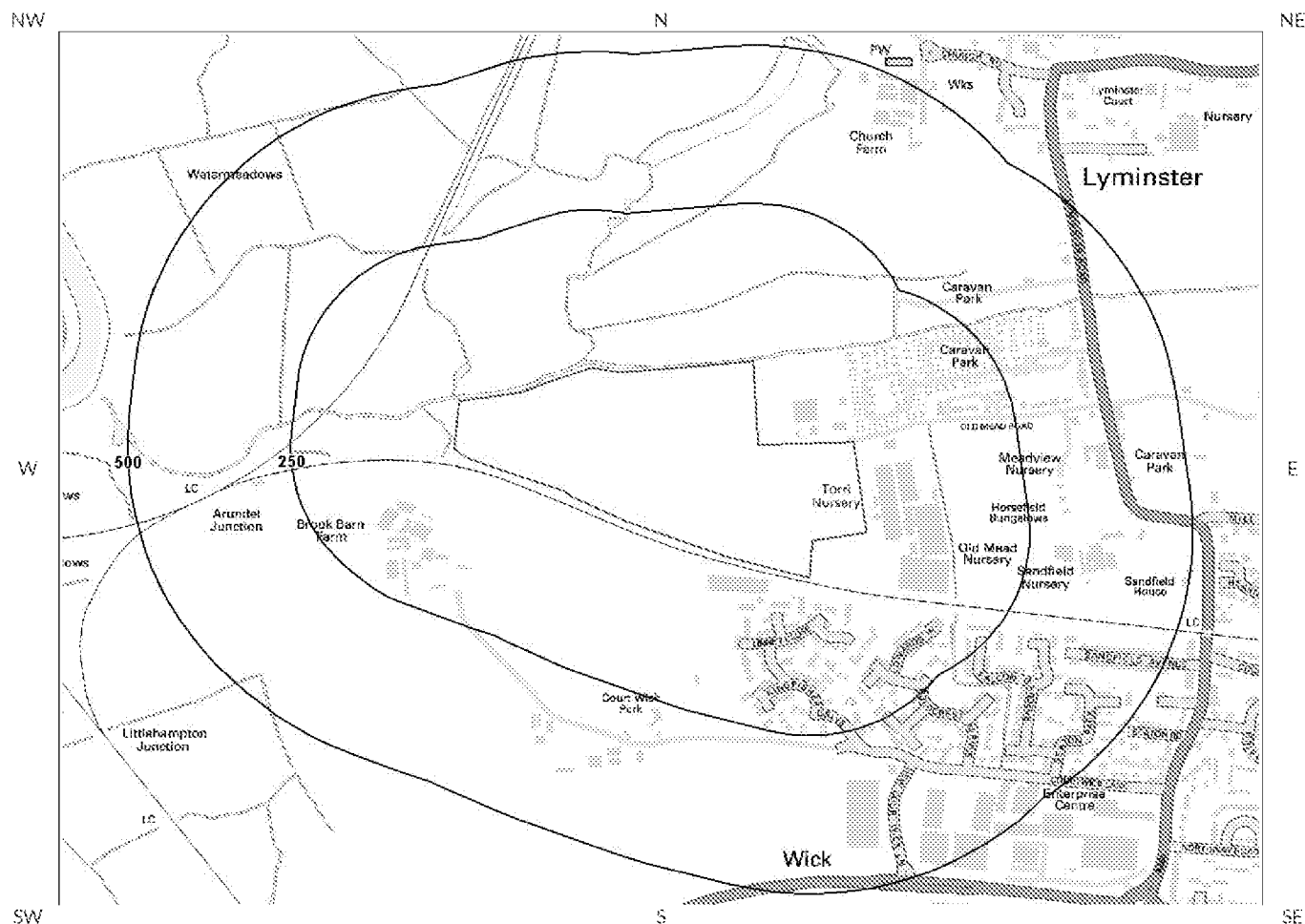


The map illustrates the geographical context of the proposed new primary school in Wick. Two concentric catchment areas are shown: a larger 500m radius area and a smaller 250m radius area. Key locations labeled include Watermeadows, Church Farm, Lyminster, Wick, Littlehampton Junction, Brook Barn Farm, and various nurseries and parks. The map also shows the River Arundel, the proposed school site, and surrounding roads and infrastructure.

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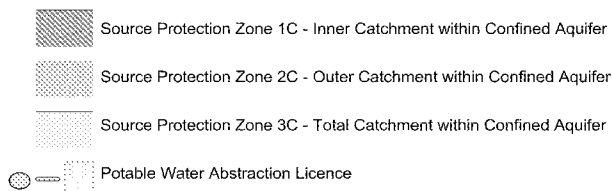
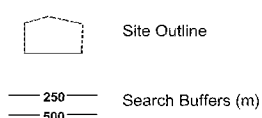
5d. Hydrology Source Protection Zones within confined aquifer



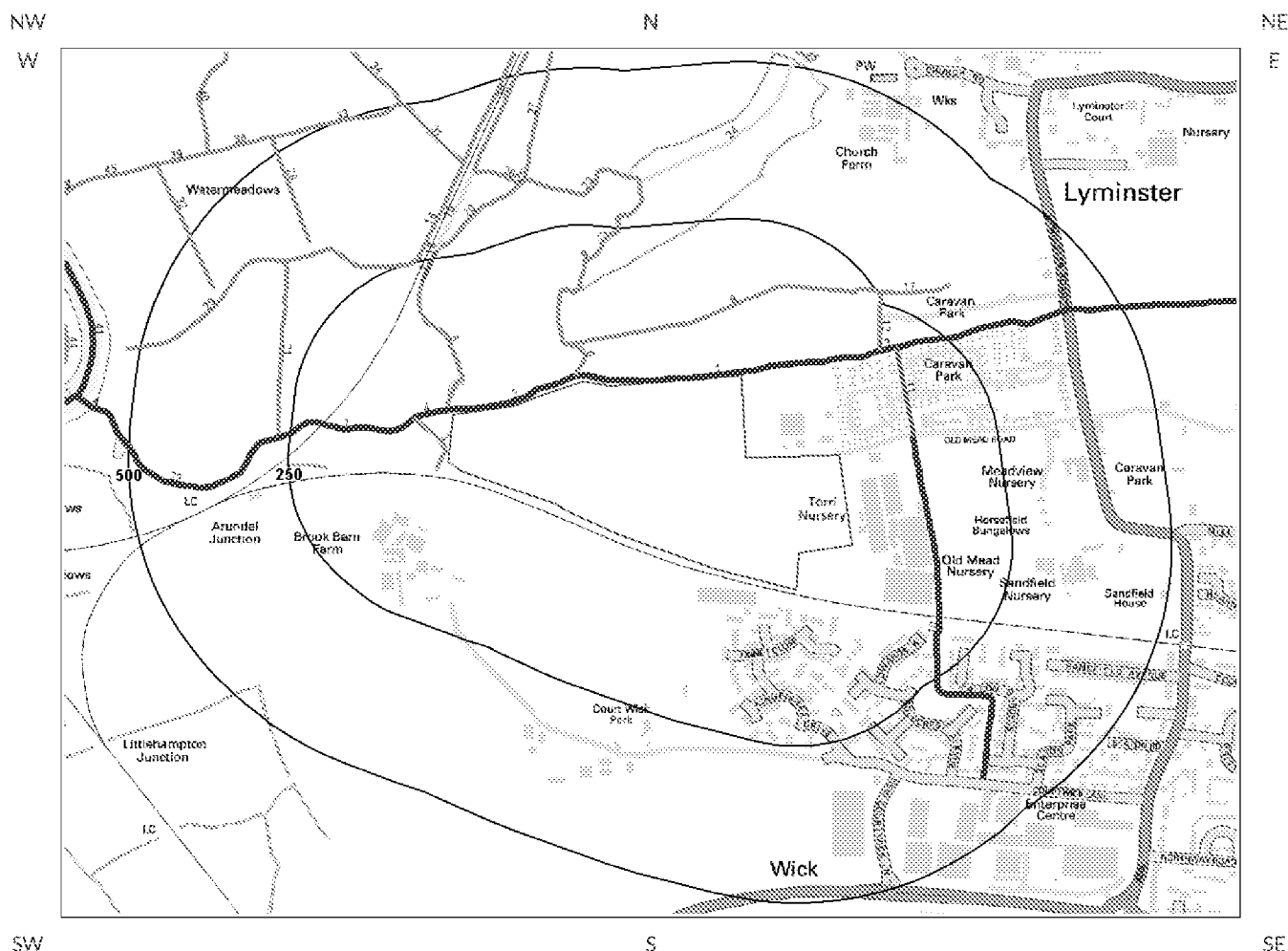
Hydrology Source Protection Zones



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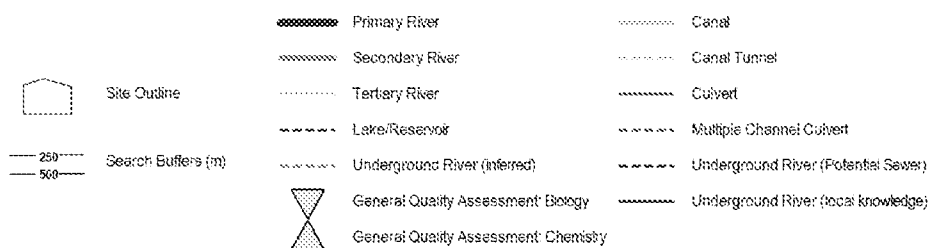
5 e. Hydrology – Detailed River Network and River Quality



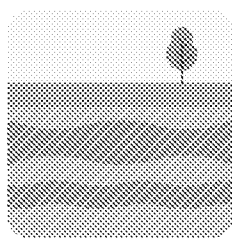
Hydrology - Detailed River Network and River Quality



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Report Reference: EMS-279596_378768
Client Reference: EMS_279596_378768



5. Hydrogeology and Hydrology

5.1 Aquifer within Superficial Deposits

Are there records of strata classification within the superficial geology at or in proximity to the property? **Yes**

From 1 April 2010, the Environment Agency's Groundwater Protection Policy has been using aquifer designations consistent with the Water Framework Directive. For further details on the designation and interpretation of this information, please refer to the GroundSure Enviroinsight User Guide.

The following aquifer records are shown on the Aquifer within Superficial Geology Map (5a):

ID	Distance (m)	Direction	Designation	Description
1	0.0	On Site	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers

5.2 Aquifer within Bedrock Deposits

Are there records of strata classification within the bedrock geology at or in proximity to the property? **Yes**

From 1 April 2010, the Environment Agency's Groundwater Protection Policy has been using aquifer designations consistent with the Water Framework Directive. For further details on the designation and interpretation of this information, please refer to the GroundSure Enviroinsight User Guide.

The following aquifer records are shown on the Aquifer within Bedrock Geology Map (5b):

ID	Distance (m)	Direction	Designation	Description
1	0.0	On Site	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers

5.3 Groundwater Abstraction Licences

Are there any Groundwater Abstraction Licences within 2000m of the study site?

Yes

The following Abstraction Licences records are represented as points, lines and regions on the Aquifer within Bedrock Geology Map (5b):

ID	Distance (m)	Direction	NGR	Details	
4	15.0	E	502240 104070	Licence No: 24/062 Details: Spray Irrigation - Direct Direct Source: Southern Region Groundwater Point: Sandfield Nursery Data Type: Point	Annual Volume (m³): 4200 Max Daily Volume (m³): 25 Original Application No: - Original Start Date: - Expiry Date: - Issue No: 103 Version Start Date: 16/6/2009 Version End Date:
5	18.0	N	502180 104190	Licence No: 24/059 Details: Horticultural Watering Direct Source: Southern Region Groundwater Point: Glenvilla Lymminster Data Type: Point	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: 169/1177 Original Start Date: - Expiry Date: - Issue No: 100 Version Start Date: 21/5/1992 Version End Date:
6	91.0	E	502320 104020	Licence No: 24/065 Details: Horticultural Watering Direct Source: Southern Region Groundwater Point: Torri House Data Type: Point	Annual Volume (m³): 5966 Max Daily Volume (m³): 25 Original Application No: 169/1450 Original Start Date: - Expiry Date: - Issue No: 100 Version Start Date: 1/4/2008 Version End Date:
7	93.0	E	502320 104060	Licence No: 24/064 Details: Horticultural Watering Direct Source: Southern Region Groundwater Point: Marina House Data Type: Point	Annual Volume (m³): 5966 Max Daily Volume (m³): 25 Original Application No: 169/1449 Original Start Date: - Expiry Date: - Issue No: 100 Version Start Date: 1/4/2008 Version End Date:
8	241.0	N	501260 105330	Licence No: 10/41/411010 Details: Spray Irrigation - Direct Direct Source: Southern Region Groundwater Point: Church Farm Lymminster Data Type: Region	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: WR.0612 Original Start Date: - Expiry Date: - Issue No: 100 Version Start Date: 18/7/1979 Version End Date:
9	306.0	S	502080 103660	Licence No: 10/41/411004 Details: Animal Watering & General Use in non Farming situations Direct Source: Southern Region Groundwater Point: Normans Nurseries Courtwick Lane Data Type: Point	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: WR.0190 Original Start Date: - Expiry Date: - Issue No: 101 Version Start Date: 6/10/2003 Version End Date:
10	321.0	SW	501720 103760	Licence No: 10/41/411003 Details: General Farming & Domestic Direct Source: Southern Region Groundwater Point: Court Wick Park Littlehampton Data Type: Point	Annual Volume (m³): 9100 Max Daily Volume (m³): 45 Original Application No: WR.0050 Original Start Date: - Expiry Date: - Issue No: 100 Version Start Date: 1/4/2008 Version End Date:

ID	Distance (m)	Direction	NGR	Details	
11A	337.0	E	502560 103960	Licence No: 10/41/411012 Details: Spray Irrigation - Direct Direct Source: Southern Region Groundwater Point: Borehole At Sandfield Nurseries Data Type: Point	Annual Volume (m³): 16800 Max Daily Volume (m³): 96 Original Application No: - Original Start Date: - Expiry Date: - Issue No: 102 Version Start Date: 13/11/2006 Version End Date: -
12A	340.0	E	502560 103950	Licence No: 10/41/411012 Details: Spray Irrigation - Direct Direct Source: Southern Region Groundwater Point: Borehole At Sandfield Nurseries Data Type: Point	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: WR.0138 Original Start Date: - Expiry Date: - Issue No: 101 Version Start Date: 1/11/1999 Version End Date: -
13	436.0	E	502660 103960	Licence No: 10/41/411012 Details: Spray Irrigation - Direct Direct Source: Southern Region Groundwater Point: Sandfield Nurseries Data Type: Point	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: WR.0138 Original Start Date: - Expiry Date: - Issue No: 101 Version Start Date: 1/11/1999 Version End Date: -
Not shown	774.0	N	502250 105050	Licence No: 24/060 Details: Fish Farm/Cress Pond Throughflow Direct Source: Southern Region Groundwater Point: Knucker Hole Fish Farm Data Type: Point	Annual Volume (m³): 332000 Max Daily Volume (m³): 907 Original Application No: 169/1026 Original Start Date: - Expiry Date: - Issue No: 101 Version Start Date: 12/6/2009 Version End Date: -
Not shown	864.0	E	503090 104110	Licence No: 24/067 Details: Spray Irrigation - Direct Direct Source: Southern Region Groundwater Point: Borehole At Point 'a' At Kirin Agribo Toddington Nurseries Data Type: Point	Annual Volume (m³): 24338 Max Daily Volume (m³): 228 Original Application No: 169S/0010 Original Start Date: 15/9/2005 Expiry Date: 31/3/2016 Issue No: 1 Version Start Date: 16/6/2009 Version End Date: -
Not shown	1317.0	E	503460 103560	Licence No: 10/41/414025 Details: Horticultural Watering Direct Source: Southern Region Groundwater Point: Firview Nursery Toddington Lane Data Type: Point	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: WR.0169 Original Start Date: - Expiry Date: - Issue No: 101 Version Start Date: 17/10/2003 Version End Date: -
Not shown	1317.0	E	503460 103560	Licence No: 10/41/414025 Details: Spray Irrigation - Direct Direct Source: Southern Region Groundwater Point: Firview Nursery Toddington Lane Data Type: Point	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: WR.0169 Original Start Date: - Expiry Date: - Issue No: 101 Version Start Date: 17/10/2003 Version End Date: -
Not shown	1379.0	E	503580 103750	Licence No: 10/41/414019 Details: Horticultural Watering Direct Source: Southern Region Groundwater Point: Foxdale Nursery Toddington Lane Data Type: Point	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: WR.0087 Original Start Date: - Expiry Date: - Issue No: 101 Version Start Date: 1/11/2004 Version End Date: -

ID	Distance (m)	Direction	NGR	Details
Not shown	1561.0	E	503760 103720	Licence No: 10/41/414031 Details: Horticultural Watering Direct Source: Southern Region Groundwater Point: Foxdale Nursery Toddington Lane (a) Data Type: Point Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: WR.0087 Original Start Date: - Expiry Date: - Issue No: 101 Version Start Date: 1/11/2004 Version End Date: -
Not shown	1646.0	S	501910 102330	Licence No: 10/41/411021 Details: General Washing/Process Washing Direct Source: Southern Region Groundwater Point: River Arun Estuary Data Type: Point Annual Volume (m³): 39277.4 Max Daily Volume (m³): 163.65 Original Application No: 169/0538 Original Start Date: - Expiry Date: - Issue No: 100 Version Start Date: 29/10/1997 Version End Date: -
Not shown	1698.0	NW	500250 105260	Licence No: 10/41/411009 Details: Water Bottling Direct Source: Southern Region Groundwater Point: Tortington Park, Arundel Data Type: Point Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: WR.0591 Original Start Date: - Expiry Date: - Issue No: 100 Version Start Date: 18/1/1999 Version End Date: -
Not shown	1698.0	NW	500250 105260	Licence No: 10/41/411009 Details: Spray Irrigation - Direct Direct Source: Southern Region Groundwater Point: Tortington Park, Arundel Data Type: Point Annual Volume (m³): 2850 Max Daily Volume (m³): 21 Original Application No: WR.0591 Original Start Date: - Expiry Date: - Issue No: 102 Version Start Date: 8/6/2009 Version End Date: -

5.4 Surface Water Abstraction Licences

Are there any Surface Water Abstraction Licences within 2000m of the study site? Yes

The following Surface Water Abstraction Licences records are represented as points, lines and regions on the Aquifer within Bedrock Geology Map (5b):

ID	Distance (m)	Direction	NGR	Details
23	22.0	N	501790 104310	Licence No: 10/41/414020 Details: Spray Irrigation - Direct Direct Source: Southern Region Surface Waters Point: Black Ditch At Church Farm Lymminster Data Type: Line Annual Volume (m³): 9092 Max Daily Volume (m³): 654.62 Application No: WR.0158 Original Start Date: - Expiry Date: - Issue No: 100 Version Start Date: 8/6/2009 Version End Date: -
24	237.0	N	501230 105650	Licence No: 10/41/411010 Details: Spray Irrigation - Direct Direct Source: Southern Region Surface Waters Point: Church Farm Lymminster Data Type: Region Annual Volume (m³): 13638 Max Daily Volume (m³): 654.62 Application No: WR.0612 Original Start Date: - Expiry Date: - Issue No: 100 Version Start Date: 8/6/2009 Version End Date: -

ID	Distance (m)	Direction	NGR	Details
Not shown	794.0	W	500460 104870	Licence No: 10/41/411020 Details: Spray Irrigation - Direct Direct Source: Southern Region Surface Waters Point: Internal Ditches At Tortington Data Type: Line Annual Volume (m³): 2500 Max Daily Volume (m³): 181.8 Application No: 169/0513 Original Start Date: - Expiry Date: - Issue No: 100 Version Start Date: 8/6/2009 Version End Date:
Not shown	1042.0	NE	501510 105670	Licence No: 10/41/411102 Details: Spray Irrigation - Direct Direct Source: Southern Region Surface Waters Point: Broomhurst Farm Data Type: Line Annual Volume (m³): 25003 Max Daily Volume (m³): 458.24 Application No: WR.0311 Original Start Date: - Expiry Date: - Issue No: 100 Version Start Date: 8/6/2009 Version End Date:
Not shown	1079.0	E	503250 104460	Licence No: 10/41/414014 Details: Spray Irrigation - Direct Direct Source: Southern Region Surface Waters Point: Black Ditch At Manor Farm Data Type: Line Annual Volume (m³): 20548 Max Daily Volume (m³): 916.5 Application No: WR.0114 Original Start Date: - Expiry Date: 31/10/2006 Issue No: 101 Version Start Date: 1/4/2006 Version End Date:
Not shown	1488.0	W	499460 105630	Licence No: 10/41/411020 Details: Spray Irrigation - Direct Direct Source: Southern Region Surface Waters Point: Binsted Rife Nr Priory Farm Data Type: Line Annual Volume (m³): 2500 Max Daily Volume (m³): 181.8 Application No: 169/0513 Original Start Date: - Expiry Date: - Issue No: 100 Version Start Date: 8/6/2009 Version End Date:
Not shown	1802.0	S	501710 102210	Licence No: 10/41/411016 Details: Spray Irrigation - Direct Direct Source: Southern Region Surface Waters Point: Ryebank Rife And Elmer Rife Data Type: Line Annual Volume (m³): 27272 Max Daily Volume (m³): 1091 Application No: WR.0809 Original Start Date: - Expiry Date: - Issue No: 100 Version Start Date: 8/12/2005 Version End Date:
Not shown	1848.0	S	501720 102160	Licence No: 10/41/411016 Details: Spray Irrigation - Direct Direct Source: Southern Region Surface Waters Point: Ryebank Rife Data Type: Line Annual Volume (m³): 27272 Max Daily Volume (m³): 2182 Application No: - Original Start Date: - Expiry Date: - Issue No: 101 Version Start Date: 8/6/2009 Version End Date:
Not shown	1888.0	W	499820 104850	Licence No: 10/41/411022 Details: Spray Irrigation - Direct Direct Source: Southern Region Surface Waters Point: Tortington Drainage Ditches Data Type: Point Annual Volume (m³): 12274 Max Daily Volume (m³): 54.5 Application No: 169/0658CA Original Start Date: 1/4/2007 Expiry Date: - Issue No: 1 Version Start Date: 8/6/2009 Version End Date:

ID	Distance (m)	Direction	NGR	Details
Not shown	1888.0	W	499820 104850	Licence No: 10/41/411022CA Details: Spray Irrigation - Direct Direct Source: Southern Region Surface Waters Point: Drainage Ditches At Tortington Data Type: Point Annual Volume (m³): 12274 Max Daily Volume (m³): 54.6 Application No: 169/0658CA Original Start Date: - Expiry Date: - Issue No: 100 Version Start Date: 19/8/1985 Version End Date:

5.5 Potable Water Abstraction Licences

Are there any Potable Water Abstraction Licences within 2000m of the study site? Yes

The following Potable Water Abstraction Licences records are represented as points, lines and regions on the SPZ and Potable Water Abstraction Licences Map (5c):

ID	Distance (m)	Direction	NGR	Details
Not shown	1698.0	NW	500250 105260	Licence No: 10/41/411009 Details: Water Bottling Direct Source: Southern Region Groundwater Point: Tortington Park, Arundel Data Type: Point Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: WR.0591 Original Start Date: - Expiry Date: - Issue No: 100 Version Start Date: Version End Date:

5.6 Source Protection Zones

Are there any Source Protection Zones within 500m of the study site? No

Database searched and no data found.

5.7 Source Protection Zones within Confined Aquifer

Are there any Source Protection Zones within the Confined Aquifer within 500m of the study site?

No

Historically, Source Protection Zone maps have been focused on regulation of activities which occur at or near the ground surface, such as prevention of point source pollution and bacterial contamination of water supplies. Sources in confined aquifers were often considered to be protected from these surface pressures due to the presence of a low permeability confining layer (e.g. glacial till, clay). The increased interest in subsurface activities such as onshore oil and gas exploration, ground source heating and cooling requires protection zones for confined sources to be marked on SPZ maps where this has not already been done.

Database searched and no data found.

5.8 Groundwater Vulnerability and Soil Leaching Potential

Is there any Environment Agency information on groundwater vulnerability and soil leaching potential within 500m of the study site?

Yes

Distance (m)	Direction	Classification	Soil Vulnerability Category	Description
0	On Site	Major Aquifer/Intermediate Leaching Potential	I1	Soils which can possibly transmit a wide range of pollutants.
0	On Site	Major Aquifer/High Leaching Potential	H1	Soils which readily transmit liquid discharges because they are shallow or susceptible to rapid flow directly to rock, gravel or groundwater.
128	N	Major Aquifer/Intermediate Leaching Potential	I1	Soils which can possibly transmit a wide range of pollutants.
262	SE	Major Aquifer/High Leaching Potential	HU	Soil information for urban areas and restored mineral workings. These soils are therefore assumed to be highly permeable in the absence of site-specific information.

5.9 River Quality

Is there any Environment Agency information on river quality within 1500m of the study site?

No

5.9.1 Biological Quality:

Database searched and no data found.

5.9.2 Chemical Quality:

Database searched and no data found.

5.10 Detailed River Network

Are there any Detailed River Network entries within 500m of the study site?

Yes

The following Detailed River Network records are represented on the Hydrology Map (5e):

ID	Distance (m)	Direction	Details	
1	3.0	N	River Name: Black Ditch Welsh River Name: - Alternative Name: -	River Type: Primary River Main River Status: Currently Undefined
2	5.0	N	River Name: Black Ditch Welsh River Name: - Alternative Name: -	River Type: Primary River Main River Status: Currently Undefined
3	7.0	W	River Name: Drain Welsh River Name: - Alternative Name: -	River Type: Secondary River Main River Status: Currently Undefined
4	12.0	NW	River Name: Black Ditch Welsh River Name: - Alternative Name: -	River Type: Primary River Main River Status: Currently Undefined
5	12.0	NW	River Name: Drain Welsh River Name: - Alternative Name: -	River Type: Secondary River Main River Status: Currently Undefined
6	13.0	N	River Name: - Welsh River Name: - Alternative Name: -	River Type: Secondary River Main River Status: Currently Undefined
7	61.0	W	River Name: Black Ditch Welsh River Name: - Alternative Name: -	River Type: Primary River Main River Status: Currently Undefined
8	63.0	N	River Name: Drain Welsh River Name: - Alternative Name: -	River Type: Secondary River Main River Status: Currently Undefined
9	63.0	N	River Name: Drain Welsh River Name: - Alternative Name: -	River Type: Secondary River Main River Status: Currently Undefined
10	117.0	E	River Name: - Welsh River Name: - Alternative Name: -	River Type: Primary River Main River Status: Currently Undefined
11	118.0	E	River Name: - Welsh River Name: - Alternative Name: -	River Type: Culvert Main River Status: Currently Undefined
12	177.0	N	River Name: - Welsh River Name: - Alternative Name: -	River Type: Secondary River Main River Status: Currently Undefined
13	177.0	N	River Name: Black Ditch Welsh River Name: - Alternative Name: -	River Type: Primary River Main River Status: Currently Undefined
14	194.0	NE	River Name: Black Ditch Welsh River Name: - Alternative Name: -	River Type: Primary River Main River Status: Currently Undefined
15	216.0	N	River Name: - Welsh River Name: - Alternative Name: -	River Type: Culvert Main River Status: Currently Undefined
16	249.0	N	River Name: Drain Welsh River Name: - Alternative Name: -	River Type: Secondary River Main River Status: Currently Undefined
17	254.0	NE	River Name: Drain Welsh River Name: - Alternative Name: -	River Type: Secondary River Main River Status: Currently Undefined
18	263.0	N	River Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Main River Status: Currently Undefined
19	265.0	N	River Name: - Welsh River Name: - Alternative Name: -	River Type: Tertiary River Main River Status: Currently Undefined
20	265.0	N	River Name: - Welsh River Name: - Alternative Name: -	River Type: Secondary River Main River Status: Currently Undefined
21	268.0	W	River Name: Drain Welsh River Name: - Alternative Name: -	River Type: Secondary River Main River Status: Currently Undefined

ID	Distance (m)	Direction	Details	
22	268.0	W	River Name: - Welsh River Name: - Alternative Name: -	River Type: Primary River Main River Status: Currently Undefined
23	298.0	N	River Name: - Welsh River Name: - Alternative Name: -	River Type: Secondary River Main River Status: Currently Undefined
24	322.0	N	River Name: Drain Welsh River Name: - Alternative Name: -	River Type: Tertiary River Main River Status: Currently Undefined
25	330.0	N	River Name: - Welsh River Name: - Alternative Name: -	River Type: Secondary River Main River Status: Currently Undefined
26	330.0	N	River Name: Drain Welsh River Name: - Alternative Name: -	River Type: Secondary River Main River Status: Currently Undefined
27	336.0	N	River Name: Drain Welsh River Name: - Alternative Name: -	River Type: Secondary River Main River Status: Currently Undefined
28	352.0	NW	River Name: - Welsh River Name: - Alternative Name: -	River Type: Secondary River Main River Status: Currently Undefined
29	360.0	NW	River Name: Drain Welsh River Name: - Alternative Name: -	River Type: Secondary River Main River Status: Currently Undefined
30	372.0	N	River Name: Drain Welsh River Name: - Alternative Name: -	River Type: Secondary River Main River Status: Currently Undefined
31	393.0	N	River Name: - Welsh River Name: - Alternative Name: -	River Type: Secondary River Main River Status: Currently Undefined
32	426.0	NW	River Name: - Welsh River Name: - Alternative Name: -	River Type: Secondary River Main River Status: Currently Undefined
33	491.0	N	River Name: - Welsh River Name: - Alternative Name: -	River Type: Secondary River Main River Status: Currently Undefined

5.11 Surface Water Features

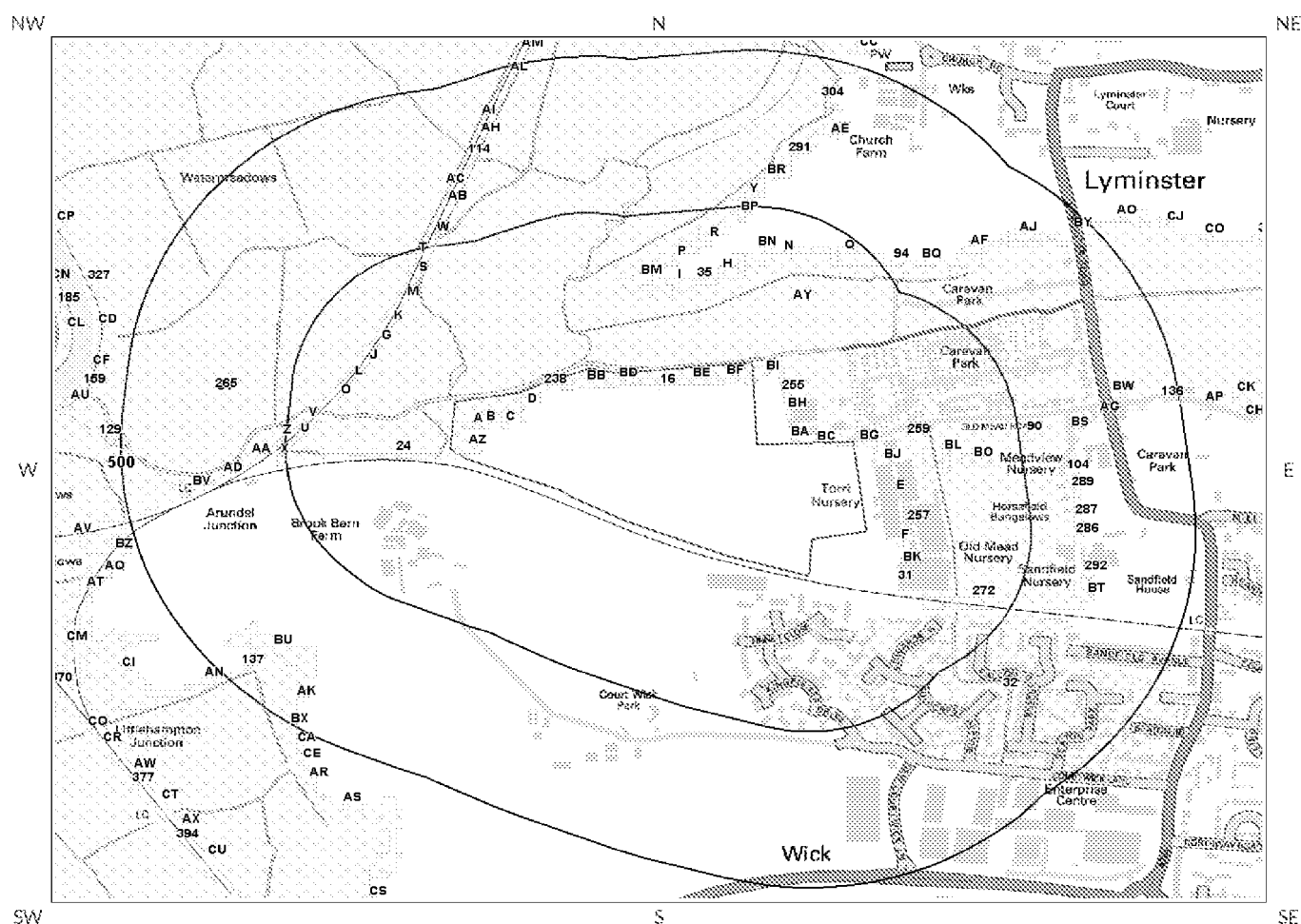
Are there any surface water features within 250m of the study site?

Yes

The following surface water records are not represented on mapping:

Distance (m)	Direction
0.0	N
6.0	W
29.0	N
92.0	W
116.0	E
141.0	N
186.0	SE
206.0	W
248.0	N

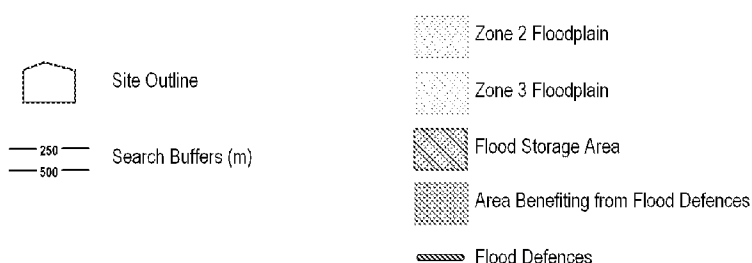
6. Environment Agency Flood Map for planning (from rivers and the sea)

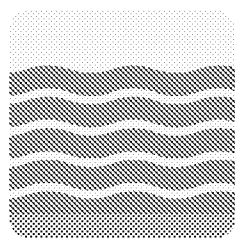


Environment Agency Flood Map for planning (from rivers and the sea)



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6. Flooding

6.1 Zone 2 Flooding

Environment Agency Zone 2 floodplains estimate the annual probability of flooding as between 1 in 1000 (0.1%) and 1 in 100 (1%) from rivers and between 1 in 1000 (0.1%) and 1 in 200 (0.5%) from the sea. Any relevant data is represented on Map 1 – Environment Agency Flood Map for Planning:

Is the site within 250m of an Environment Agency Zone 2 floodplain? Yes

The following floodplain records are represented as green shading on the Flood Map:

ID	Distance (m)	Direction	Update	Type
1AY	0.0	On Site	03-Nov-2014	Zone 2 - (Fluvial / Tidal Models)
2A	0.0	On Site	03-Nov-2014	Zone 2 - (Fluvial Models)
3A	0.0	On Site	03-Nov-2014	Zone 2 - (Fluvial Models)
4AZ	0.0	On Site	03-Nov-2014	Zone 2 - (Tidal Models)
5A	0.0	On Site	03-Nov-2014	Zone 2 - (Tidal Models)
6B	0.0	On Site	03-Nov-2014	Zone 2 - (Fluvial Models)
7B	0.0	On Site	03-Nov-2014	Zone 2 - (Tidal Models)
8C	0.0	On Site	03-Nov-2014	Zone 2 - (Tidal Models)
9C	0.0	On Site	03-Nov-2014	Zone 2 - (Fluvial Models)
10C	0.0	On Site	03-Nov-2014	Zone 2 - (Tidal Models)
11D	0.0	On Site	03-Nov-2014	Zone 2 - (Fluvial Models)
12D	0.0	On Site	03-Nov-2014	Zone 2 - (Tidal Models)
13D	0.0	On Site	03-Nov-2014	Zone 2 - (Tidal Models)
14D	0.0	On Site	03-Nov-2014	Zone 2 - (Fluvial Models)
15B8	0.0	On Site	03-Nov-2014	Zone 2 - (Tidal Models)
16	0.0	On Site	03-Nov-2014	Zone 2 - (Fluvial Models)
17BE	0.0	On Site	03-Nov-2014	Zone 2 - (Tidal Models)
18BF	0.0	On Site	03-Nov-2014	Zone 2 - (Tidal Models)
19BI	0.0	On Site	03-Nov-2014	Zone 2 - (Tidal Models)
20BA	0.0	On Site	03-Nov-2014	Zone 2 - (Tidal Models)

ID	Distance (m)	Direction	Update	Type
21BC	0.0	On Site	03-Nov-2014	Zone 2 - (Fluvial Models)
22BG	4.0	E	03-Nov-2014	Zone 2 - (Tidal Models)
23BH	15.0	N	03-Nov-2014	Zone 2 - (Tidal Models)
24	24.0	W	03-Nov-2014	Zone 2 - (Tidal Models)
25BJ	39.0	E	03-Nov-2014	Zone 2 - (Tidal Models)
26E	42.0	E	03-Nov-2014	Zone 2 - (Fluvial Models)
27E	45.0	E	03-Nov-2014	Zone 2 - (Tidal Models)
28F	47.0	E	03-Nov-2014	Zone 2 - (Tidal Models)
29F	55.0	E	03-Nov-2014	Zone 2 - (Tidal Models)
30BK	65.0	SE	03-Nov-2014	Zone 2 - (Tidal Models)
31	87.0	SE	03-Nov-2014	Zone 2 - (Tidal Models)
32	111.0	SE	03-Nov-2014	Zone 2 - (Fluvial Models)
33I	124.0	N	03-Nov-2014	Zone 2 - (Tidal Models)
34BL	127.0	E	03-Nov-2014	Zone 2 - (Tidal Models)
35	131.0	N	03-Nov-2014	Zone 2 - (Tidal Models)
36BM	137.0	N	03-Nov-2014	Zone 2 - (Tidal Models)
37H	138.0	N	03-Nov-2014	Zone 2 - (Tidal Models)
38G	141.0	NW	03-Nov-2014	Zone 2 - (Tidal Models)
39J	143.0	NW	03-Nov-2014	Zone 2 - (Tidal Models)
40G	143.0	NW	03-Nov-2014	Zone 2 - (Tidal Models)
41H	145.0	N	03-Nov-2014	Zone 2 - (Tidal Models)
42I	146.0	N	03-Nov-2014	Zone 2 - (Tidal Models)
43J	147.0	NW	03-Nov-2014	Zone 2 - (Fluvial Models)
44G	147.0	NW	03-Nov-2014	Zone 2 - (Tidal Models)
45J	147.0	NW	03-Nov-2014	Zone 2 - (Fluvial Models)
46J	149.0	W	03-Nov-2014	Zone 2 - (Fluvial Models)
47G	150.0	NW	03-Nov-2014	Zone 2 - (Fluvial Models)
48K	153.0	NW	03-Nov-2014	Zone 2 - (Fluvial Models)
49J	155.0	W	03-Nov-2014	Zone 2 - (Tidal Models)
50L	156.0	W	03-Nov-2014	Zone 2 - (Fluvial Models)
51	158.0	NW	03-Nov-2014	Zone 2 - (Fluvial / Tidal Models)

ID	Distance (m)	Direction	Update	Type
52J	158.0	NW	03-Nov-2014	Zone 2 - (Fluvial Models)
53BO	158.0	E	03-Nov-2014	Zone 2 - (Tidal Models)
54G	158.0	NW	03-Nov-2014	Zone 2 - (Fluvial Models)
55K	159.0	NW	03-Nov-2014	Zone 2 - (Tidal Models)
56L	161.0	W	03-Nov-2014	Zone 2 - (Tidal Models)
57K	162.0	NW	03-Nov-2014	Zone 2 - (Tidal Models)
58L	162.0	W	03-Nov-2014	Zone 2 - (Fluvial Models)
59P	164.0	N	03-Nov-2014	Zone 2 - (Tidal Models)
60N	167.0	N	03-Nov-2014	Zone 2 - (Tidal Models)
61O	171.0	W	03-Nov-2014	Zone 2 - (Fluvial Models)
62L	171.0	W	03-Nov-2014	Zone 2 - (Tidal Models)
63M	172.0	NW	03-Nov-2014	Zone 2 - (Tidal Models)
64M	174.0	NW	03-Nov-2014	Zone 2 - (Fluvial Models)
65L	174.0	W	03-Nov-2014	Zone 2 - (Fluvial Models)
66BN	175.0	N	03-Nov-2014	Zone 2 - (Tidal Models)
67N	177.0	N	03-Nov-2014	Zone 2 - (Fluvial / Tidal Models)
68O	180.0	W	03-Nov-2014	Zone 2 - (Tidal Models)
69P	181.0	N	03-Nov-2014	Zone 2 - (Tidal Models)
70O	182.0	W	03-Nov-2014	Zone 2 - (Fluvial Models)
71M	185.0	NW	03-Nov-2014	Zone 2 - (Fluvial Models)
72R	190.0	N	03-Nov-2014	Zone 2 - (Tidal Models)
73O	191.0	W	03-Nov-2014	Zone 2 - (Fluvial Models)
74S	197.0	N	03-Nov-2014	Zone 2 - (Fluvial Models)
75V	200.0	W	03-Nov-2014	Zone 2 - (Tidal Models)
76Q	203.0	NE	03-Nov-2014	Zone 2 - (Tidal Models)
77Q	206.0	NE	03-Nov-2014	Zone 2 - (Tidal Models)
78R	207.0	N	03-Nov-2014	Zone 2 - (Tidal Models)
79S	212.0	N	03-Nov-2014	Zone 2 - (Tidal Models)
80S	213.0	N	03-Nov-2014	Zone 2 - (Fluvial Models)
81S	221.0	N	03-Nov-2014	Zone 2 - (Tidal Models)
82U	224.0	W	03-Nov-2014	Zone 2 - (Fluvial Models)

ID	Distance (m)	Direction	Update	Type
83BP	225.0	N	03-Nov-2014	Zone 2 - (Tidal Models)
84T	230.0	N	03-Nov-2014	Zone 2 - (Tidal Models)
85T	231.0	N	03-Nov-2014	Zone 2 - (Fluvial Models)
86U	233.0	W	03-Nov-2014	Zone 2 - (Fluvial Models)
87U	243.0	W	03-Nov-2014	Zone 2 - (Fluvial Models)
88V	244.0	W	03-Nov-2014	Zone 2 - (Fluvial Models)
89W	249.0	N	03-Nov-2014	Zone 2 - (Fluvial Models)

6.2 Zone 3 Flooding

Zone 3 shows the extent of a river flood with a 1 in 100 (1%) or greater chance of occurring in any year or a sea flood with a 1 in 200 (0.5%) or greater chance of occurring in any year. Any relevant data is represented on Map 1 -- Environment Agency Flood Map for Planning.

Is the site within 250m of an Environment Agency Zone 3 floodplain? Yes

The following floodplain records are represented as blue shading on the Flood Map:

ID	Distance (m)	Direction	Update	Type
233AY	0.0	On Site	03-Nov-2014	Zone 3 - (Fluvial / Tidal Models)
234AZ	0.0	On Site	03-Nov-2014	Zone 3 - (Tidal Models)
235C	0.0	On Site	03-Nov-2014	Zone 3 - (Tidal Models)
236C	0.0	On Site	03-Nov-2014	Zone 3 - (Fluvial / Tidal Models)
237D	0.0	On Site	03-Nov-2014	Zone 3 - (Tidal Models)
238	0.0	On Site	03-Nov-2014	Zone 3 - (Tidal Models)
239B A	0.0	On Site	03-Nov-2014	Zone 3 - (Tidal Models)
240BB	0.0	On Site	03-Nov-2014	Zone 3 - (Tidal Models)
241B C	0.0	On Site	03-Nov-2014	Zone 3 - (Tidal Models)
242BB	0.0	On Site	03-Nov-2014	Zone 3 - (Tidal Models)
243B D	0.0	On Site	03-Nov-2014	Zone 3 - (Tidal Models)
244B D	0.0	On Site	03-Nov-2014	Zone 3 - (Tidal Models)
245BE	0.0	On Site	03-Nov-2014	Zone 3 - (Tidal Models)
246BE	0.0	On Site	03-Nov-2014	Zone 3 - (Tidal Models)
247BF	0.0	On Site	03-Nov-2014	Zone 3 - (Tidal Models)

ID	Distance (m)	Direction	Update	Type
248B G	4.0	E	03-Nov-2014	Zone 3 - (Tidal Models)
249B A	14.0	N	03-Nov-2014	Zone 3 - (Tidal Models)
250B G	22.0	E	03-Nov-2014	Zone 3 - (Tidal Models)
251B H	34.0	N	03-Nov-2014	Zone 3 - (Tidal Models)
252BI	37.0	E	03-Nov-2014	Zone 3 - (Tidal Models)
253BJ	39.0	E	03-Nov-2014	Zone 3 - (Tidal Models)
254E	42.0	E	03-Nov-2014	Zone 3 - (Tidal Models)
255	45.0	E	03-Nov-2014	Zone 3 - (Tidal Models)
256B K	65.0	SE	03-Nov-2014	Zone 3 - (Tidal Models)
257	65.0	E	03-Nov-2014	Zone 3 - (Tidal Models)
258F	67.0	E	03-Nov-2014	Zone 3 - (Tidal Models)
259	83.0	E	03-Nov-2014	Zone 3 - (Tidal Models)
260BL	86.0	E	03-Nov-2014	Zone 3 - (Tidal Models)
261B M	115.0	N	03-Nov-2014	Zone 3 - (Tidal Models)
262B N	136.0	N	03-Nov-2014	Zone 3 - (Tidal Models)
263BL	142.0	E	03-Nov-2014	Zone 3 - (Tidal Models)
264J	155.0	W	03-Nov-2014	Zone 3 - (Tidal Models)
265	158.0	NW	03-Nov-2014	Zone 3 - (Fluvial / Tidal Models)
266K	159.0	NW	03-Nov-2014	Zone 3 - (Fluvial Models)
267B O	169.0	E	03-Nov-2014	Zone 3 - (Tidal Models)
268R	173.0	N	03-Nov-2014	Zone 3 - (Tidal Models)
269O	180.0	W	03-Nov-2014	Zone 3 - (Tidal Models)
270N	184.0	N	03-Nov-2014	Zone 3 - (Tidal Models)
271B O	191.0	E	03-Nov-2014	Zone 3 - (Tidal Models)
272	196.0	SE	03-Nov-2014	Zone 3 - (Tidal Models)
273Q	196.0	NE	03-Nov-2014	Zone 3 - (Tidal Models)
274V	196.0	W	03-Nov-2014	Zone 3 - (Tidal Models)
275Q	201.0	NE	03-Nov-2014	Zone 3 - (Tidal Models)
276BP	207.0	N	03-Nov-2014	Zone 3 - (Tidal Models)
277T	212.0	N	03-Nov-2014	Zone 3 - (Tidal Models)
278Q	217.0	NE	03-Nov-2014	Zone 3 - (Tidal Models)

ID	Distance (m)	Direction	Update	Type
279BP	225.0	N	03-Nov-2014	Zone 3 - (Tidal Models)
280T	230.0	N	03-Nov-2014	Zone 3 - (Tidal Models)
281Y	245.0	N	03-Nov-2014	Zone 3 - (Tidal Models)

6.3 Flood Defences

Are there any Flood Defences within 250m of the study site?

Yes

The following flood defence records are represented as lines on the Flood Map:

ID	Distance (m)	Direction	Update
397	137.0	E	31-Oct-2014
398	191.0	NE	31-Oct-2014

6.4 Areas benefiting from Flood Defences

Are there any areas benefiting from Flood Defences within 250m of the study site?

No

6.5 Areas benefiting from Flood Storage

Are there any areas used for Flood Storage within 250m of the study site?

No

6.6 Groundwater Flooding Susceptibility Areas

6.6.1 Are there any British Geological Survey groundwater flooding susceptibility areas within 50m of the boundary of the study site?

Yes

Does this relate to Clearwater Flooding or Superficial Deposits Flooding?

Clearwater Flooding

Notes: Groundwater flooding may either be associated with shallow unconsolidated sedimentary aquifers which overlie unproductive aquifers (Superficial Deposits Flooding), or with unconfined aquifers (Clearwater Flooding).

6.6.2 What is the highest susceptibility to groundwater flooding in the search area based on the underlying geological conditions?

Potential at Surface

Where potential for groundwater flooding to occur at surface is indicated, this means that given the geological conditions in the area groundwater flooding hazard should be considered in all land-use planning decisions. It is recommended that other relevant information e.g. records of previous incidence of groundwater flooding, rainfall, property type, and land drainage information be investigated in order to establish relative, but not absolute, risk of groundwater flooding.

6.7 Groundwater Flooding Confidence Areas

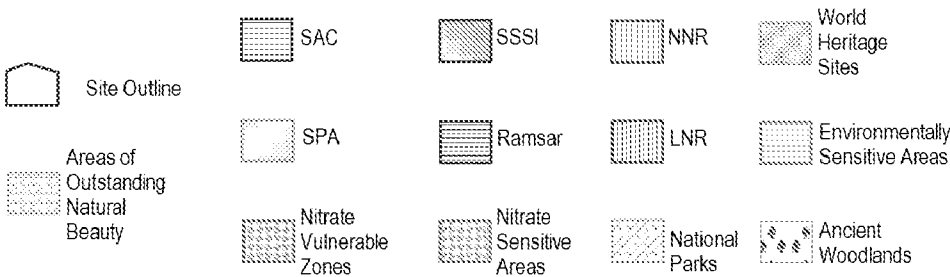
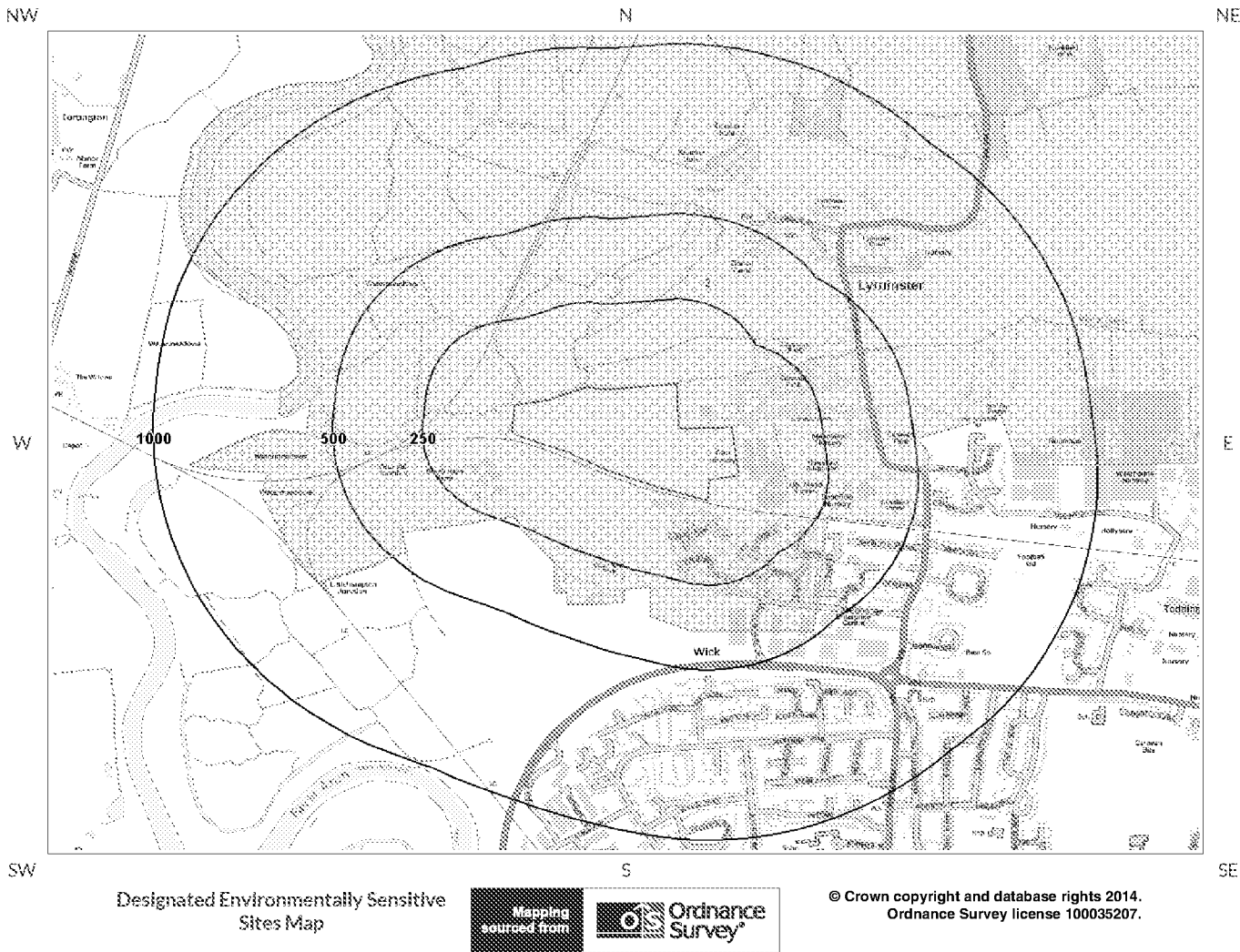
What is the British Geological Survey confidence rating in this result?

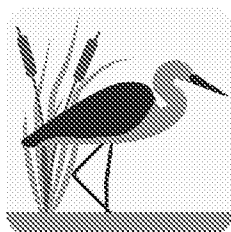
High

Notes: Groundwater flooding is defined as the emergence of groundwater at the ground surface or the rising of groundwater into man-made ground under conditions where the normal range of groundwater levels is exceeded.

The confidence rating is on a threefold scale - Low, Moderate and High. This provides a relative indication of the BGS confidence in the accuracy of the susceptibility result for groundwater flooding. This is based on the amount and precision of the information used in the assessment. In areas with a relatively lower level of confidence the susceptibility result should be treated with more caution. In other areas with higher levels of confidence the susceptibility result can be used with more confidence.

7. Designated Environmentally Sensitive Sites Map





7. Designated Environmentally Sensitive Sites

Presence of Designated Environmentally Sensitive Sites within 2000m of the study site? Yes

7.1 Records of Sites of Special Scientific Interest (SSSI) within 2000m of the study site: 0

Database searched and no data found.

7.2 Records of National Nature Reserves (NNR) within 2000m of the study site: 0

Database searched and no data found.

7.3 Records of Special Areas of Conservation (SAC) within 2000m of the study site: 0

Database searched and no data found.

7.4 Records of Special Protection Areas (SPA) within 2000m of the study site: 0

Database searched and no data found.

7.5 Records of Ramsar sites within 2000m of the study site: 0

Database searched and no data found.

7.6 Records of Ancient Woodland within 2000m of the study site:

2

The following records of Designated Ancient Woodland provided by Natural England/Natural Resources Wales are represented as polygons on the Designated Environmentally Sensitive Sites Map:

ID	Distance (m)	Direction	Ancient Woodland Name	Data Source
Not shown	1584.0	W	BINSTEAD PARK WOOD	Ancient and Semi-Natural Woodland
Not shown	1980.0	NE	STUBBS COPSE	Ancient and Semi-Natural Woodland

7.7 Records of Local Nature Reserves (LNR) within 2000m of the study site:

0

Database searched and no data found.

7.8 Records of World Heritage Sites within 2000m of the study site:

0

Database searched and no data found.

7.9 Records of Environmentally Sensitive Areas within 2000m of the study site:

0

Database searched and no data found.

7.10 Records of Areas of Outstanding Natural Beauty (AONB) within 2000m of the study site:

0

Database searched and no data found.

7.11 Records of National Parks (NP) within 2000m of the study site:

1

The following National Park records provided by Natural England/Natural Resources Wales are represented as polygons on the Designated Environmentally Sensitive Sites Map:

ID	Distance (m)	Direction	SSSI Name	Data Source
Not shown	1844.0	NE	South Downs	Natural England

7.12 Records of Nitrate Sensitive Areas within 2000m of the study site:

0

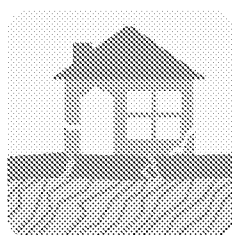
Database searched and no data found.

7.13 Records of Nitrate Vulnerable Zones within 2000m of the study site:

1

The following Nitrate Vulnerable Zone records produced by DEFRA are represented as polygons on the Designated Environmentally Sensitive Sites Map:

ID	Distance (m)	Direction	NVZ Name	Data Source
2	0.0	On Site	Existing	DEFRA



8. Natural Hazards Findings

8.1 Detailed BGS GeoSure Data

BGS GeoSure Data has been searched to 50m. The data is included in tabular format. If you require further information on geology and ground stability, please obtain a **GroundSure GeolInsight**, available from [our website](#). The following information has been found:

8.1.1 Shrink Swell

What is the maximum Shrink-Swell** hazard rating identified on the study site? Negligible

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

Hazard

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.

8.1.2 Landslides

What is the maximum Landslide* hazard rating identified on the study site? Very Low

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

Hazard

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.

* This indicates an automatically generated 50m buffer and site.

8.1.3 Soluble Rocks

What is the maximum Soluble Rocks* hazard rating identified on the study site?

Very Low

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

Hazard

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.

8.1.4 Compressible Ground

What is the maximum Compressible Ground* hazard rating identified on the study site?

Very Low

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

Hazard

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.

8.1.5 Collapsible Rocks

What is the maximum Collapsible Rocks* hazard rating identified on the study site?

Very Low

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

Hazard

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.

8.1.6 Running Sand

What is the maximum Running Sand** hazard rating identified on the study site?

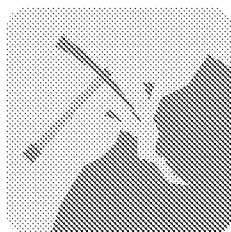
Very Low

The following natural subsidence information provided by the British Geological Survey is not represented on mapping:

Hazard

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.

* This indicates an automatically generated 50m buffer and site.



9. Mining

9.1 Coal Mining

Are there any coal mining areas within 75m of the study site?

No

Database searched and no data found.

9.2 Shallow Mining

What is the subsidence hazard relating to shallow mining on-site*?

Low

*Please note this data is searched with a 150m buffer.

9.3 Brine Affected Areas

Are there any brine affected areas within 75m of the study site?

No

Guidance: No Guidance Required.

Contact Details

EmapSite
Telephone: 0118 9736883
sales@emapsite.com



Access to the data is provided by, and used with the permission of, the Ordnance Survey, who retain the Copyright and Intellectual Property Rights for the data. PointX © Database Right/Copyright, Thomson Directories Limited © Copyright Link Interchange Network Limited © Database Right/Copyright and 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.

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) 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. © GroundSure Limited June 2013