

## APPENDIX A - FIGURES AND DRAWINGS

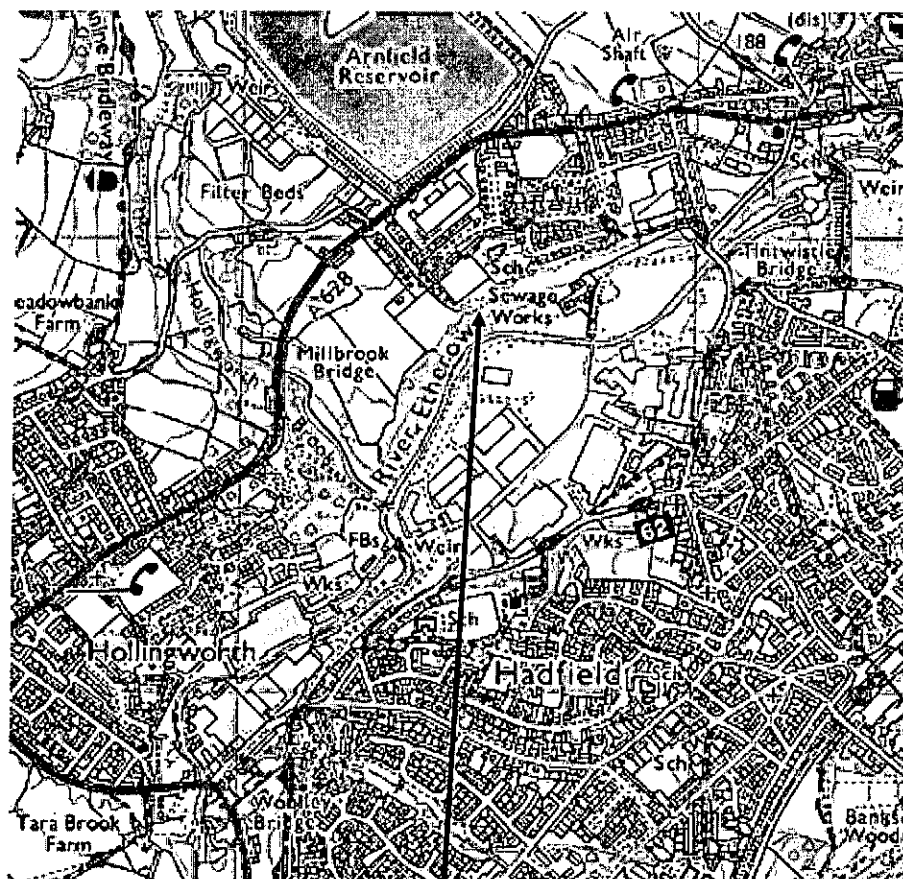


## Site Location Plan

Contract Number T/11/1000

Contract Land at West Drive, Tintwistle

Client Mr Ian Nicholson



THE SITE

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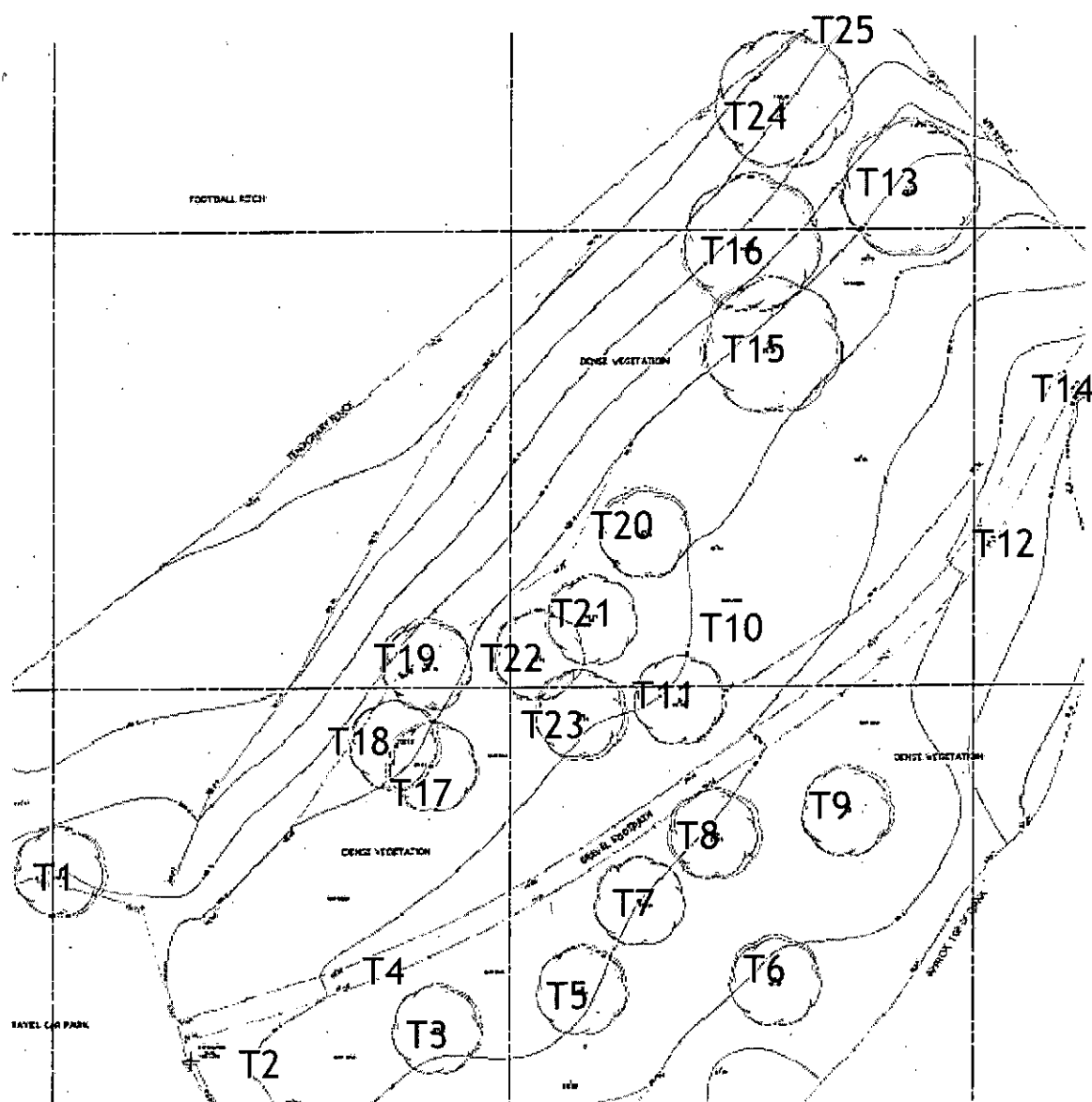
Scale 1:25,000

Drawn by JRB Approved

Drawing Number T/11/1000/GA/1



<b>Contract Number</b>	<b>T/11/1000</b>
<b>Contract</b>	<b>Land at West Drive, Tintwistle.</b>
<b>Client</b>	<b>Mr Ian Nicholson</b>



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Scale	NTS	
Drawn by	JRB	Approved
Drawing Number	T/11/1000/GA/2	



## **APPENDIX B - GLOSSARY OF TERMS**

ACEC	Aggressive Chemical Environment for Concrete (classification)
aOD	Above Ordnance Datum
bgl	Below ground level
BGS	British Geological Survey
BRE	Building Research Establishment
CBR	California Bearing Ratio (test)
COMAH	Control of Major Accident Hazards (regulations)
Designated location	Site (and the ecosystem on that site) protected under national of international legislation. A potential ecological receptor to be considered as part of the assessment of land contamination. Example designated locations include SSSIs (q.v.), SACs (q.v.), national nature reserves, Ramsar sites and bird special protection areas.
DQA	Data Quality Assessment
DQO	Data Quality Objective
DQRA	Detailed Quantitative Risk Assessment
DWS	Drinking Water Standard
EQS	Environmental Quality Standard
GAC	Generic Assessment Criterion
GQA	General Quality Assessment (Environment Agency)
GSV	Gas Screening Value
HCV	Health Criteria Value
IPPC	Integrated Pollution Prevention and Control (regulations)
K <sub>ow</sub>	Octanol-water partition coefficient
LEL	Lower Explosive Limit
LL	Liquid Limit
LoD	Limit of Detection (analytical)
LoQ	Limit of Quantification (analytical)
Mean Value Test	Statistical test (described in CLR7) to estimate the mean value of a normally distributed population of data at a given level of confidence. Normally for contaminated land assessment, the 95th percentile (referred to as the 95%UCL or US95) is applied as a reasonable but conservative estimate of the mean concentration for comparison with the relevant assessment criteria.
Maximum Value Test	Statistical test (described in CLR7) to identify whether an elevated concentration within a normally distributed data set forms part of the underlying population from which it has been sampled or whether it is an outlier (such as a localised area of contamination) that merits further consideration.
MC	Moisture Content

NGR	National Grid Reference
NIHHS	Notification of Installations Handling Hazardous Substances (regulations)
OS	Ordnance Survey
PI	Plasticity Index
PID	Photoionisation Detector
PL	Plastic Limit
ppm	Parts per million
ppmv	Parts per million by volume
QA	Quality Assurance
QC	Quality Control
SAC	Special Area of Conservation
SOM	Soil Organic Matter
SPT	Standard Penetration Test
SPZ	Source Protection Zone (see Appendix G)
SSAC	Site-Specific Assessment Criterion
SSSI	Site of Special Scientific Interest
SVOC	Semi-Volatile Organic Compound
TEF	Toxicity Equivalent Factor
TPH	Total Petroleum Hydrocarbons
TWA	Time Weighted Average
US95	95 <sup>th</sup> percentile estimate of the true mean value of a data population (also known as 95%UCL).
VOC	Volatile Organic Compound

## **APPENDIX C - GROUNDSURE REPORT**





Tier Environmental  
Elm House Farm,  
Saughton, CH3 6EN

GroundSure Reference: HMD-341-103365  
Your Reference: T/11/1000  
Report Date: Jul 1, 2011  
Report Delivery Method: xml  
Client Email: james.blyth@tieruk.com

### **GroundSure EnviroInsight**

**Address: 1, SOUTH CLOSE, TINTWISTLE, GLOSSOP, SK13  
1LY**

Dear Sir/Madam,

Thank you for placing your order with GroundSure. Please find enclosed the GroundSure EnviroInsight as requested

If you need any further assistance, please do not hesitate to contact our helpline on 08444 159000 quoting the above GroundSure reference number.

Yours faithfully,

A handwritten signature in black ink, appearing to be 'James Blyth', followed by a large, stylized circular flourish.

Managing Director  
Groundsure Limited

Enc.  
GroundSure EnviroInsight

# GroundSure EnviroInsight

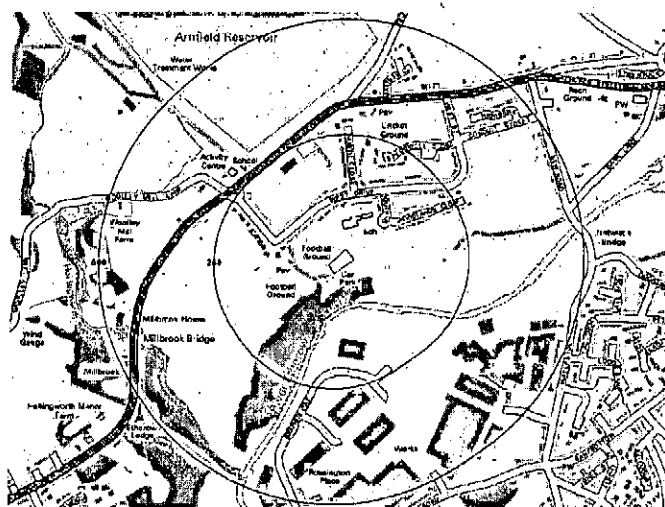
Address: 1, SOUTH CLOSE, TINTWISTLE, GLOSSOP, SK13 1LY

Date: Jul 1, 2011

GroundSure Reference: HMD-341-103365

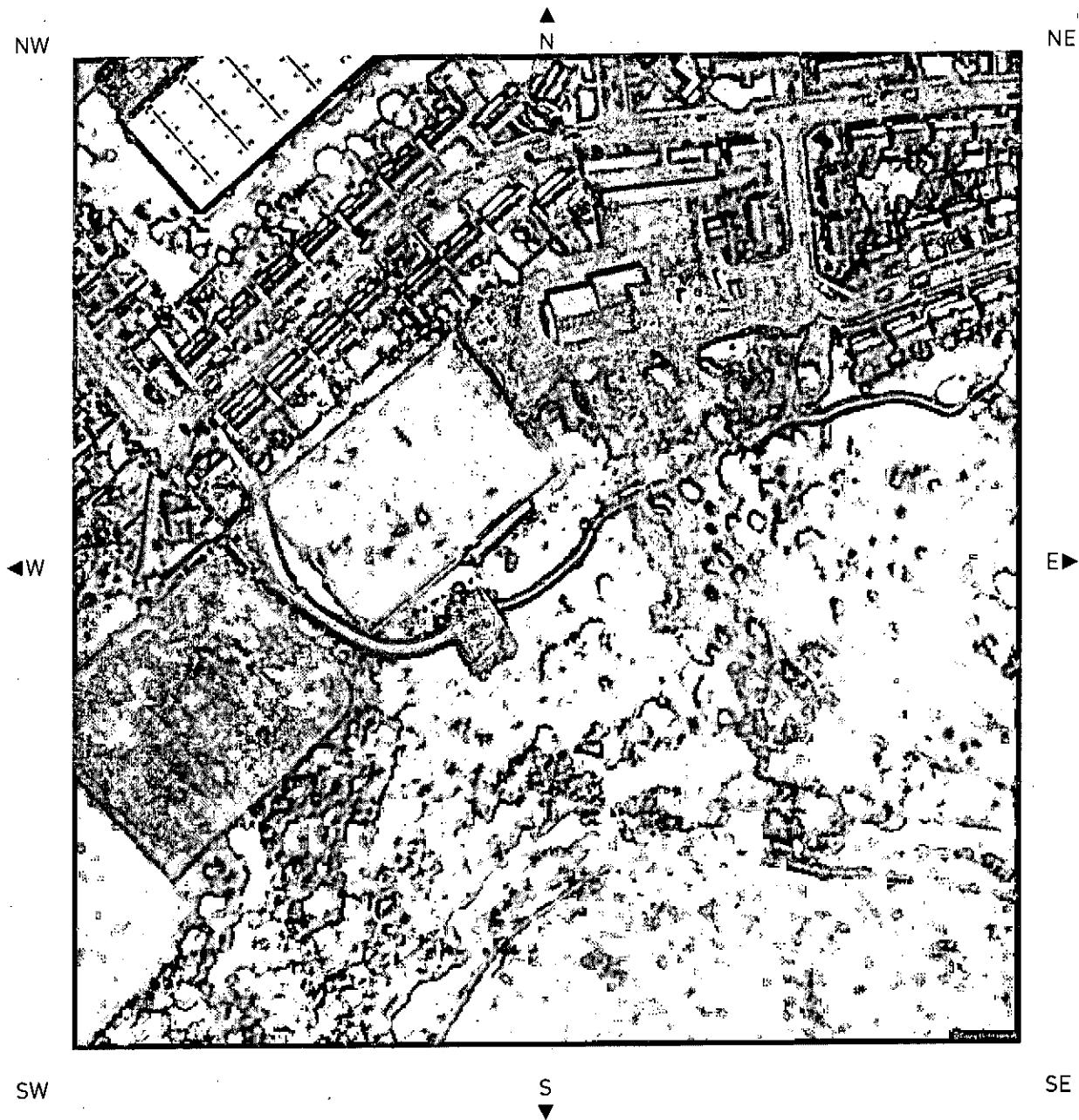
Your Reference: T/11/1000

Client: Tier Environmental



Brought to you by GroundSure

## Aerial Photograph of Study Site



Site Name: 1, SOUTH CLOSE, TINTWISTLE, GLOSSOP,  
SK13 1LY  
Grid Reference: 401538,396880  
Size of Site: 0.13 ha

Aerial photography supplied by Getmapping PLC.  
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# 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.

Report Section	Number of records found within (X) m of the study site boundary					
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1. Environmental Permits, Incidents and Registers	on-site	0-50	51-250	251-500	501-1000	1000-1500
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## 1.1 Industrial Sites Holding Environmental Permits and/or Authorisations

Records of historic IPC Authorisations	0	0	0	0	-	-
Records of Part A(1) and IPPC Authorised Activities	0	0	0	0	-	-
Records of Water Industry Referrals (potentially harmful discharges to the public sewer)	0	0	0	0	-	-
Records of Red List Discharge Consents (potentially harmful discharges to controlled waters)	0	0	0	0	-	-
Records of List 1 Dangerous Substances Inventory sites	0	0	0	0	-	-
Records of List 2 Dangerous Substances Inventory sites	0	0	0	0	-	-
Records of Part A(2) and Part B Activities and Enforcements	0	0	0	2	-	-
Records of Category 3 or 4 Radioactive Substances Authorisations	0	0	0	1	-	-
Records of Licensed Discharge Consents	0	0	11	5	-	-
Records of Planning Hazardous Substance Consents and Enforcements	0	0	0	0	-	-

## 1.2 Records of COMAH and NIHS sites

0	0	0	0	-	-
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## 1.3 Environment Agency Recorded Pollution Incidents

National Incidents Recording System, List 2	0	0	0	-	-	-
National Incidents Recording System, List 1	0	0	0	-	-	-

## 1.4 Sites Determined as Contaminated Land under Part IIA EPA 1990

0	0	0	0	-	-
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2. Landfill and Other Waste Sites	on-site	0-50	51-250	251-500	501-1000	1000-1500
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## 2.1 Landfill Sites

Environment Agency Registered Landfill Sites	0	0	0	0	0	-
Landfill Data - Operational Landfill Sites	0	0	0	0	0	-
Environment Agency Historic Landfill Sites	0	0	2	2	2	4
Landfill Data - Non-Operational Landfill Sites	0	0	0	4	0	-
BGS/DoE Landfill Site Survey	0	0	0	0	0	0
GroundSure Local Authority Landfill Sites Data	0	0	0	3	3	2

## 2.2 Landfill and Other Waste Sites Findings

Operational Waste Treatment, Transfer and Disposal Sites	0	0	0	1	-	-
Non-Operational Waste Treatment, Transfer and Disposal Sites	0	0	0	0	-	-
Environment Agency Licensed Waste Sites	0	0	0	1	0	0

3. Current Land Uses	on-site	0-50	51-250	251-500	501-1000	1000-1500
3.1 Current Industrial Sites Data	0	0	6	-	-	-
3.2 Records of Petrol and Fuel Sites	0	0	0	1	-	-
3.3 Underground High Pressure Oil and Gas Pipelines	0	0	0	0	-	-

4. Geology	Description
4.1 Are there any records of Artificial Ground and Made Ground present beneath the study site? *	No
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.	

Source: Scale: 1:50,000 BGS Sheet 086

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

5. Hydrogeology and Hydrology				on-site	0-50	51-250	251-500	501-1000	1001-2000
5.1 Are there any records of Productive Strata in the Superficial Geology within 500m of the study site?							Yes		
5.2 Are there any records of Productive Strata in the Bedrock Geology within 500m of the study site?							Yes		
5.3 Groundwater Abstraction Licences (within 1000m of the study site).				0	0	0	8	0	-
5.4 Surface Water Abstraction Licences (within 1000m of the study site).				0	0	0	3	4	-
5.5 Potable Water Abstraction Licences (within 2000m of the study site).				0	0	0	3	2	4
5.6 Are there any Source Protection Zones within 500m of the study site?								No	
5.7 River Quality				on-site0-5051-250251-500501-10001001-1500					
Is there any Environment Agency Information on river quality within 1500m of the study site?				No	No	No	Yes	No	No
5.8 Detailed River Network entries within 500m of the site				0	0	3	12	-	-
5.9 Surface water features within 250m of the study site				No	No	Yes	-	-	-

6. Flooding	
6.1 Are there any Environment Agency indicative Zone 2 floodplains within 250m of the study site?	Yes
6.2 Are there any Environment Agency indicative Zone 3 floodplains within 250m of the study site?	Yes
6.3 Are there any Flood Defences within 250m of the study site?	No
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?	Low
6.7 What is the BGS confidence rating for the Groundwater Flooding susceptibility areas?	Low

7. Designated Environmentally Sensitive Sites	on-site	0-50	51-250	251-500	501-1000	1001-1500
7.1 Records of Sites of Special Scientific Interest (SSSI)	0	0	0	0	-	-
7.2 Records of National Nature Reserves (NNR)	0	0	0	0	-	-

7.1 Records of Sites of Special Scientific Interest (SSSI)	0	0	0	0	-	-
7.3 Records of Local Nature Reserves (LNR)	0	0	0	0	-	-
7.4 Records of Special Areas of Conservation (SAC)	0	0	0	0	-	-
7.5 Records of Special Protection Areas (SPA)	0	0	0	0	-	-
7.6 Records of Ramsar sites	0	0	0	0	-	-
7.7 Records of World Heritage Sites	0	0	0	0	-	-
7.8 Records of Environmentally Sensitive Areas	0	0	0	1	-	-
7.9 Records of Areas of Outstanding Natural Beauty (AONB)	0	0	0	0	-	-
7.10 Records of National Parks	0	0	0	1	-	-
7.11 Records of Nitrate Sensitive Areas	0	0	0	0	-	-
7.12 Records of Nitrate Vulnerable Zones	0	0	0	0	-	-

## 8. Natural Hazards

8.1 What is the maximum risk of natural ground subsidence?

Very Low

## 9. Mining

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

Yes

9.2 What is the risk of subsidence relating to shallow mining within 150m of the study site?

Negligible

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. These searches are conducted using radii of up to 500m.

### 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.

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## 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

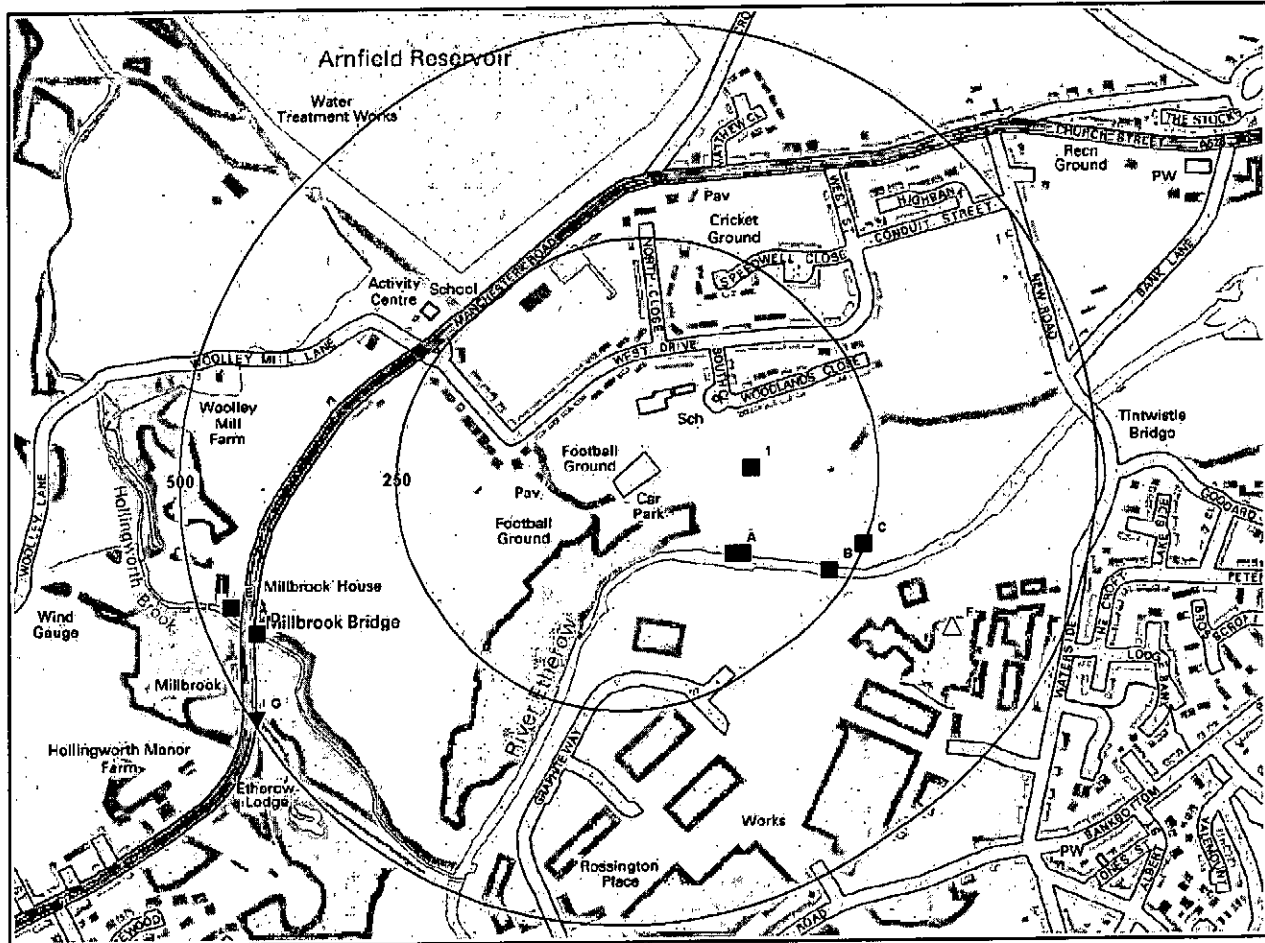
Only certain features are placed on the maps within the report. All features represented on maps found within this search are given an identification number. This number identifies the feature on the mapping and correlates it to the additional information provided below. This identification number precedes 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



## Authorisations, Incidents and Registers Legend

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Licence Number: 100035207

- |                    |                               |  |
|--------------------|-------------------------------|--|
| Site Outline       | Recorded Pollution Incident   | RAS 3 & 4 Authorisations                                       |
| Search Buffers (m) | Dangerous Substances (List 1) | Part A(1) Authorised Processes and Historic IPC Authorisations |
| 250<br>500         | Dangerous Substances (List 2) | Part A(2) and Part B Authorised Processes                      |
|                    | Water Industry Referrals      | COMAH / NIHHS Sites  |
|                    | Licenced Discharge Consents   | Sites Determined as Contaminated Land                          |
|                    | Red List Discharge Consents   | Hazardous Substance Consents and Enforcements                  |

# 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:

**Records of historic IPC Authorisations within 500m of the study site:** 0

Database searched and no data found.

**Records of Part A(1) and IPPC Authorised Activities within 500m of the study site:** 0

Database searched and no data found.

**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.

**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.

**Records of List 1 Dangerous Substances Inventory Sites within 500m of the study site:** 0

Database searched and no data found.

**Records of List 2 Dangerous Substance Inventory Sites within 500m of the study site:** 0

Database searched and no data found.

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

The following Part A(2) and Part B Activities are represented as points on the Authorisations, Incidents and Registers map:

ID	Distance	Direction	NGR	Details	
17F	381.0	SE	401900, 396700	Address: Gb Beeson & Sons Process: Concrete & Crushing Process Status: Current Permit Type: Part B	Enforcement: Enforcement Notified Date of Enforcement: 20/06/2006 Comment: Breach of conditions
18F	381.0	SE	401900, 396700	Address: Regency Kitchens Process: Coating & Enamelling Process, Process:timber Process Status: Unknown Permit Type: Part B	Enforcement: Data requested, not received. Date of Enforcement: Data requested, not received. Comment: Data requested, not received.

Report Reference: HMD-341-103365

**Records of Category 3 or 4 Radioactive Substance Licences within 500m of the study site:**
**1**

The following RAS Licence (3 or 4) records are represented as points on the Authorisations, Incidents and Registers map:

ID	Distance [m]	Direction	Address	Operator	Type	Permission Number	Dates	Status
20G	495.0	SW	Loparex Ltd, Etherow Works, woolley Bridge, Glossop, Derbyshire, SK13 2NU	Loparex Ltd	Keeping And Use Of Radioactive Materials (was Rsa60 Section 1).	AZ3429	Date of Approval: - Effective from: - Last date of update: 2003-06-04	-

**Records of Licensed Discharge Consents within 500m of the study site:**
**16**

The following Licensed Discharge Consents records are represented as points on the Authorisations, Incidents and Registers map:

ID	Distance	Direction	NGR	Details	
1	103.0	E	401670, 396890	Address: Woodland Close, High Peak, Derbyshire Effluent Type: Sewage Discharges - Sewer Storm Overflow - Water Company Permit Number: 01PEA0042 Permit Version: 1	Receiving Water: River Etherow Status: Consent Revoked Or Revised - New Consent Issued (37(1)) Issue date: - Effective Date: 1/1/1995 Revocation Date: 30/3/2004
2A	127.0	SE	401650, 396790	Address: Bank Lane Cso, Tintwistle, High Peak, Derbyshire Effluent Type: Sewage Discharges - Sewer Storm Overflow - Water Company Permit Number: 01PEA0043 Permit Version: 1	Receiving Water: River Etherow Status: Revoked - Unspecified Issue date: - Effective Date: 1/1/1995 Revocation Date: -
3A	134.0	SE	401660, 396790	Address: Woodland Close, High Peak, Derbyshire Effluent Type: Sewage Discharges - Sewer Storm Overflow - Water Company Permit Number: 01PEA0042 Permit Version: 2	Receiving Water: River Etherow Status: Modified - (wra 91 Sched 10 - As Amended By Env Act 1995) Issue date: 31/3/2004 Effective Date: 31/3/2004 Revocation Date: -
4B	225.0	SE	401760, 396770	Address: Tintwistle Stw, New Road, Tintwistle, Hadfield, Hyde, Greater Manchester Effluent Type: Sewage Discharges - Stw Storm Overflow/storm Tank - Water Company Permit Number: 016940183 Permit Version: 1	Receiving Water: River Etherow Status: Revoked - Unspecified Issue date: - Effective Date: 29/2/1980 Revocation Date: 30/1/1985
5B	225.0	SE	401760, 396770	Address: Tintwistle Stw, New Road, Tintwistle, Hadfield, Hyde, Greater Manchester Effluent Type: Sewage Discharges - Final/treated Effluent - Water Company Permit Number: 016940183 Permit Version: 2	Receiving Water: River Etherow Status: Pre Nra Legislation Where Issue Date < 01-sep-89 (historic Only) Issue date: - Effective Date: 31/1/1985 Revocation Date: -
6B	225.0	SE	401760, 396770	Address: Tintwistle Stw, New Road, Tintwistle, Hadfield, Hyde, Greater Manchester Effluent Type: Sewage Discharges - Stw Storm Overflow/storm Tank - Water Company Permit Number: 016940183 Permit Version: 2	Receiving Water: River Etherow Status: Pre Nra Legislation Where Issue Date < 01-sep-89 (historic Only) Issue date: - Effective Date: 31/1/1985 Revocation Date: -
7B	225.0	SE	401760, 396770	Address: Tintwistle Stw, New Road, Tintwistle, Hadfield, Hyde, Greater Manchester Effluent Type: Sewage Discharges - Final/treated Effluent - Water Company Permit Number: 016940183 Permit Version: 3	Receiving Water: River Etherow Status: Pre Nra Legislation Where Issue Date < 01-sep-89 (historic Only) Issue date: 24/9/2009 Effective Date: 1/1/2010 Revocation Date: -

8B	225.0	SE	401760, 396770	Address: Tintwistle Stw, New Road, Tintwistle, Hadfield, Hyde, Greater Manchester Effluent Type: Sewage Discharges - Stw Storm Overflow/storm Tank - Water Company Permit Number: 016940183 Permit Version: 3	Receiving Water: River Etherow Status: Pre Nra Legislation Where Issue Date < 01-sep-89 (historic Only) Issue date: 24/9/2009 Effective Date: 1/1/2010 Revocation Date: -
9B	225.0	SE	401760, 396770	Address: Tintwistle Stw, New Road, Tintwistle, Hadfield, Hyde, Greater Manchester Effluent Type: Sewage Discharges - Final/treated Effluent - Water Company Permit Number: 016940183 Permit Version: 1	Receiving Water: River Etherow Status: Revoked - Unspecified Issue date: - Effective Date: 29/2/1980 Revocation Date: 30/1/1985
10C	248.0	E	401800, 396800	Address: Spaulding Russell Ltd, Tintwistle, Greater Manchester Effluent Type: Trade Discharges - Process Effluent - Not Water Company Permit Number: 016990230 Permit Version: 2	Receiving Water: Tributary River Etherow Status: Revoked - Unspecified Issue date: - Effective Date: 1/7/1981 Revocation Date: 5/4/1991
11C	248.0	E	401800, 396800	Address: Spaulding Russell Ltd, Tintwistle, Greater Manchester Effluent Type: Trade Discharges - Process Effluent - Not Water Company Permit Number: 016990230 Permit Version: 1	Receiving Water: Tributary River Etherow Status: Revoked - Unspecified Issue date: - Effective Date: 27/2/1980 Revocation Date: 30/6/1981
12D	447.0	SW	401100, 396700	Address: Millbrook Cottages, Hollingworth, Hyde, Greater Manchester Effluent Type: Sewage Discharges - Final/treated Effluent - Not Water Company Permit Number: 016993210 Permit Version: 2	Receiving Water: Hollingworth Brook Status: Post Nra Legislation Where Issue Date > 31-aug-89 (historic Only) Issue date: - Effective Date: 1/4/1997 Revocation Date: -
13D	447.0	SW	401100, 396700	Address: Millbrook Cottages, Hollingworth, Hyde, Greater Manchester Effluent Type: Sewage Discharges - Final/treated Effluent - Not Water Company Permit Number: 016992473 Permit Version: 1	Receiving Water: Hollingworth Brook Status: Lapsed Under Schedule 23 Environment Act 1995 Issue date: - Effective Date: 16/4/1992 Revocation Date: 1/4/1997
14D	447.0	SW	401100, 396700	Address: Millbrook Cottages, Hollingworth, Hyde, Greater Manchester Effluent Type: Sewage Discharges - Final/treated Effluent - Not Water Company Permit Number: 016993210 Permit Version: 1	Receiving Water: Hollingworth Brook Status: Revoked - Unspecified Issue date: - Effective Date: 16/4/1992 Revocation Date: 31/3/1997
15E	464.0	W	401070, 396730	Address: Stp Serving Millbrook House, Manchester Road, Tintwistle, Derbyshire, SK14 8LA Effluent Type: Sewage Discharges - Final/treated Effluent - Not Water Company Permit Number: 016892024 Permit Version: 2	Receiving Water: Hollingworth Brook Status: Revoked - Unspecified Issue date: 2/12/2002 Effective Date: 2/12/2002 Revocation Date: 8/9/2009
16E	464.0	W	401070, 396730	Address: Stp Serving Millbrook House, Manchester Road, Tintwistle, Derbyshire, SK14 8LA Effluent Type: Sewage Discharges - Final/treated Effluent - Not Water Company Permit Number: 016892024 Permit Version: 1	Receiving Water: Hollingworth Brook Status: Revoked - Unspecified Issue date: 5/5/2000 Effective Date: 5/5/2000 Revocation Date: 1/12/2000

**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

**Records of National Incidents Recording System, List 2 within 250m of the study site:** 0

Database searched and no data found.

---

**Records of National Incidents Recording System, List 1 within 250m of the study site:** 0

Database searched and no data found.

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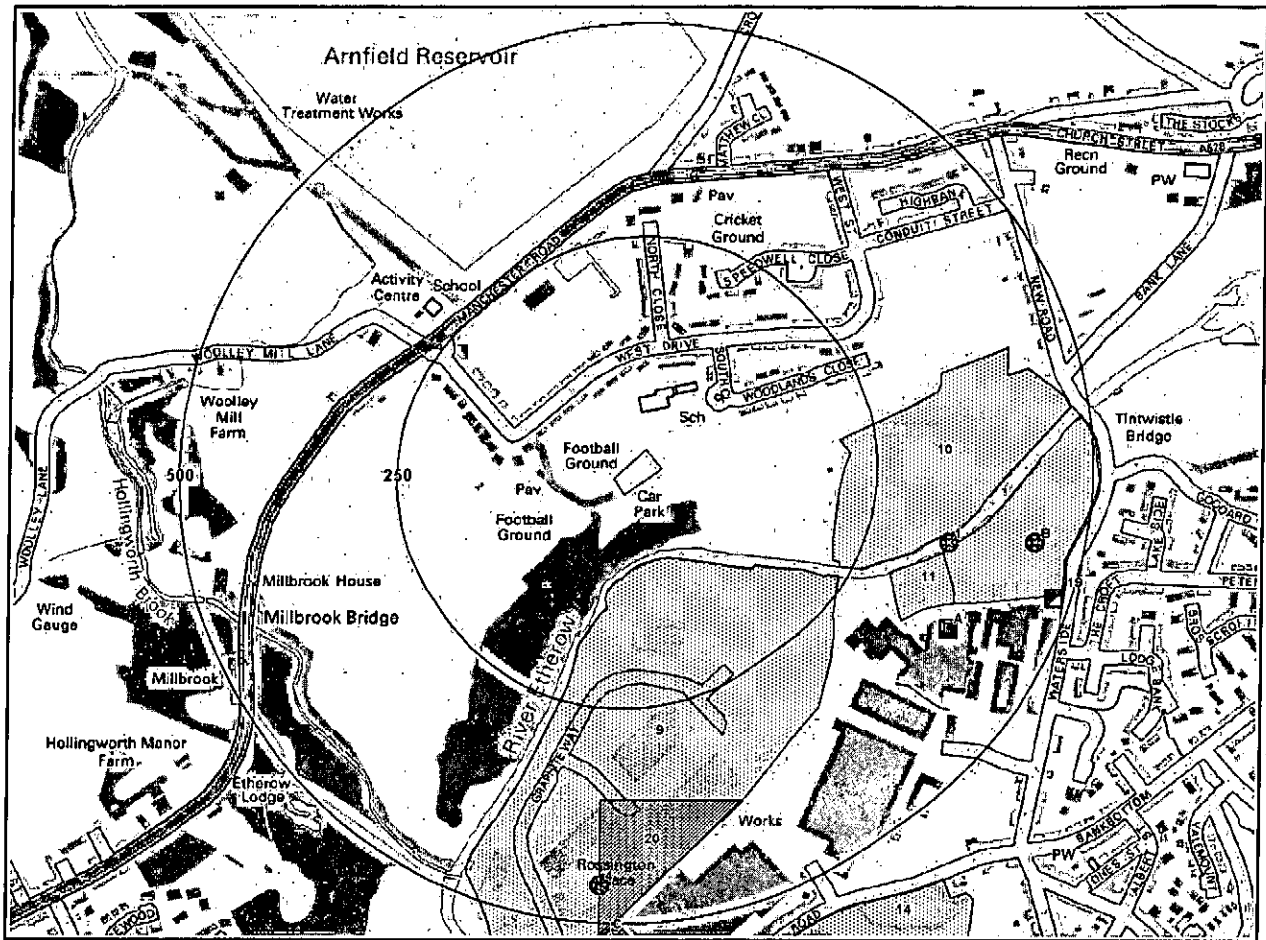
### 1.4 Sites Determined as Contaminated Land under Part IIA EPA 1990

**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



### Landfill & Other Waste Sites Legend

Enabled by **OS** Ordnance Survey

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- |  |                    |  |                                       |  |                                     |
|--|--------------------|--|---------------------------------------|--|-------------------------------------|
|  | Site Outline       |  | E.A. Active Landfill                  |  | Operational Waste Treatment Licence |
|  | 250                |  | E.A. Historic Landfill (Area Data)    |  | Closed Waste Treatment Licence      |
|  | 500                |  | E.A. Historic Landfill (Point Data)   |  | REGIS Waste Licence                 |
|  | Search Buffers (m) |  | BGS / DoE Survey Landfill             |  | Operational Landfill                |
|  |                    |  | Local Authority Landfill (Area Data)  |  | Closed Landfill                     |
|  |                    |  | Local Authority Landfill (Point Data) |  |                                     |

## 2. Landfill and Other Waste Sites

### 2.1 Landfill Sites

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

**0**

Database searched and no data found.

**Records of operational landfill sites sourced from Landmark within 1000m of the study site:**

**0**

Database searched and no data found.

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

**10**

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

ID	Distance	Direction	NGR	Details	
9	83.0	S	401500, 396500	Site Address: Woolley Bridge Road, Hadfield, Glossop, Derbyshire Waste Licence: Yes Site Reference: U022, LG23 Waste Type: Inert Regis Reference: -	Licence Issue: 26-Sep-1990 Licence Surrendered: - Licence Hold Address: - Operator: New Soils Limited
10	208.0	E	401800, 396800	Site Address: Bridge Mill, Derbyshire Waste Licence: Yes Site Reference: LT10 Waste Type: Inert Regis Reference: -	Licence Issue: 12-Aug-1983 Licence Surrendered: 26/10/1989 Licence Hold Address: - Operator: Audenshaw Diesel Engines Limited
11	291.0	SE	401800, 396700	Site Address: Old Mill Site, Waterside Road, Hadfield, Glossop, Derbyshire Waste Licence: Yes Site Reference: LG12 Waste Type: - Regis Reference: -	Licence Issue: 20-Dec-1982 Licence Surrendered: - Licence Hold Address: - Operator: H R Wilson
12B	342.0	E	401900, 396800	Site Address: Old Mill Site, Waterside Road, Hadfield, Glossop, Derbyshire Waste Licence: Yes Site Reference: U023, LG13 Waste Type: Inert Regis Reference: -	Licence Issue: 15-Sep-1983 Licence Surrendered: 31/05/1991 Licence Hold Address: - Operator: G B Beeson and Sons
13D	505.0	S	401400, 396200	Site Address: Woolley Bridge Road, Hadfield, Glossop, Derbyshire Waste Licence: - Site Reference: U002 Waste Type: - Regis Reference: -	Licence Issue: Licence Surrendered: - Licence Hold Address: - Operator: -
14	546.0	SE	401800, 396300	Site Address: Paradise Quarry, Paradise Street, Glossop Waste Licence: - Site Reference: U003 Waste Type: Industrial, Commercial, Household Regis Reference: -	Licence Issue: Licence Surrendered: - Licence Hold Address: - Operator: -
Not shown	1177.0	SE	402600, 396200	Site Address: Longdendale Trial (Site 2), Disused Railway Embankment, Longdendale, Derbyshire Waste Licence: Yes Site Reference: LC49, GDO U049 Waste Type: Inert Regis Reference: -	Licence Issue: 07-Mar-1991 Licence Surrendered: 30/06/1993 Licence Hold Address: - Operator: -
Not shown	1189.0	S	401100, 395600	Site Address: Disused Railway Line, Lower Barn Road, Hadfield, Glossop, Derbyshire Waste Licence: Yes Site Reference: U038, LG16 Waste Type: Inert Regis Reference: -	Licence Issue: 10-Jul-1990 Licence Surrendered: 10/11/1991 Licence Hold Address: - Operator: Moorside Land and Development Company Limited

Report Reference: HMD-341-103365

Not shown	1281.0	SE	402700, 396300	Site Address: Off Platt Street, Padfield, Derbyshire Waste Licence: - Site Reference: GDO U008 Waste Type: Household Regis Reference: -	Licence Issue: Licence Surrendered: - Licence Hold Address: - Operator: -
Not shown	1411.0	SW	400300, 395900	Site Address: Land Adjacent to Woolley Lane Gas Works, Field numbers 3976 and 6471, Woolley Lane Gas Works, Wooley Lane, Hollingworth Waste Licence: Yes Site Reference: K087, RD/LIC/160/78, RD/LIC/940/93 Waste Type: Inert Regis Reference: -	Licence Issue: 13-May-1993 Licence Surrendered: - Licence Hold Address: Carr House Farm, Hollingworth, Hyde Operator: -

#### Records of non-operational landfill sites sourced from Landmark within 1000m of the study site:

4

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

ID	Distance	Direction	NGR	Details	
1	344.0	E	401900, 396800	Site Address: Etherow Gardens, Waterside Industrial Estate, Hadfield, HYDE, Cheshire Landfill Licence: 100AEZAL Agency Reference: Waste Type: Inert Waste Description: Inert Landfill Known Restrictions: No known restriction on source of waste	Record Date: 01-Dec-1982 Transfer Date: Modification Date: Status: Licence lapsed/cancelled/defunct/not applicable/surrendered Category: LANDFILL Regulator: EA - Midlands Region - Lower Trent Area (Alfreton) Size: Undefined
2A	381.0	SE	401900, 396700	Site Address: Bridge Mill New Road, Tintwistle, GLOSSOP, Derbyshire Landfill Licence: 100AKXAL Agency Reference: Waste Type: Difficult Waste Description: Difficult Landfill Known Restrictions: No known restriction on source of waste	Record Date: 01-Aug-1983 Transfer Date: Modification Date: Status: Licence lapsed/cancelled/defunct/not applicable/surrendered Category: LANDFILL Regulator: EA - Midlands Region - Lower Trent Area (Alfreton) Size: Very Small (<10,000 tonnes/year)
3B	441.0	E	402000, 396800	Site Address: Old Mill Site, Waterside Road, Hadfield, HYDE, Cheshire Landfill Licence: 100AFAAL Agency Reference: Waste Type: Inert Waste Description: Inert Landfill Known Restrictions: No known restriction on source of waste	Record Date: 01-Sep-1983 Transfer Date: Modification Date: Status: Licence lapsed/cancelled/defunct/not applicable/surrendered Category: LANDFILL Regulator: EA - Midlands Region - Lower Trent Area (Alfreton) Size: Undefined
4	457.0	S	401500, 396400	Site Address: Wooley Bridge Road, Hadfield, HYDE, Cheshire Landfill Licence: 100ASSAL Agency Reference: Waste Type: Non-Hazardous Waste Description: Non-Hazardous Landfill Known Restrictions: No known restriction on source of waste	Record Date: 01-Sep-1990 Transfer Date: Modification Date: 01-Jul-1992 Status: Licence lapsed/cancelled/defunct/not applicable/surrendered Category: LANDFILL Regulator: EA - Midlands Region - Lower Trent Area (Alfreton) Size: Undefined

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

0

Database searched and no data found.

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

8

The following landfill records are represented as points or polygons on the Landfill and Other Waste Sites map:  
Report Reference: HMD-341-103365



ID	Distance	Direction	Site Address	Source	Data Type
20	356.0	S	Refuse Tip	1992 mapping	Polygon
21C	498.0	S	Refuse Tip	1990 mapping	Polygon
22C	499.0	S	Refuse Tip	1974 mapping	Polygon
23D	506.0	S	Refuse Tip	1970 mapping	Polygon
Not shown	514.0	S	Refuse Tip	1974 mapping	Polygon
Not shown	515.0	S	Refuse Tip	1988 mapping	Polygon
Not shown	1296.0	SW	Refuse Tip	1996 mapping	Polygon
Not shown	1297.0	SW	Refuse Tip	1973 mapping	Polygon

## 2.2 Other Waste Sites

### Records of operational waste treatment, transfer or disposal sites within 500m of the study site: 1

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

ID	Distance	Direction	NGR	Details
8A	381.0	SE	401900, 396700	Site Address: adj Waterside Mill, Waterside Road, Hadfield, HYDE, Cheshire, Landfill Licence: 100ATZAL EA Reference: - Waste Type: Non-Hazardous Rating: Non-Hazardous Transfer Known Restrictions: No known restriction on source of waste Record Date: 01-Jan-1991 Transfer Date: Modification Date: Status: Operational as far as is known Category: TRANSFER Regulator: EA - North West Region - South Area (East - Sale) Size: Small (<25,000 tonnes/year)

### Records of non-operational waste treatment, transfer or disposal sites within 500m of the study site: 0

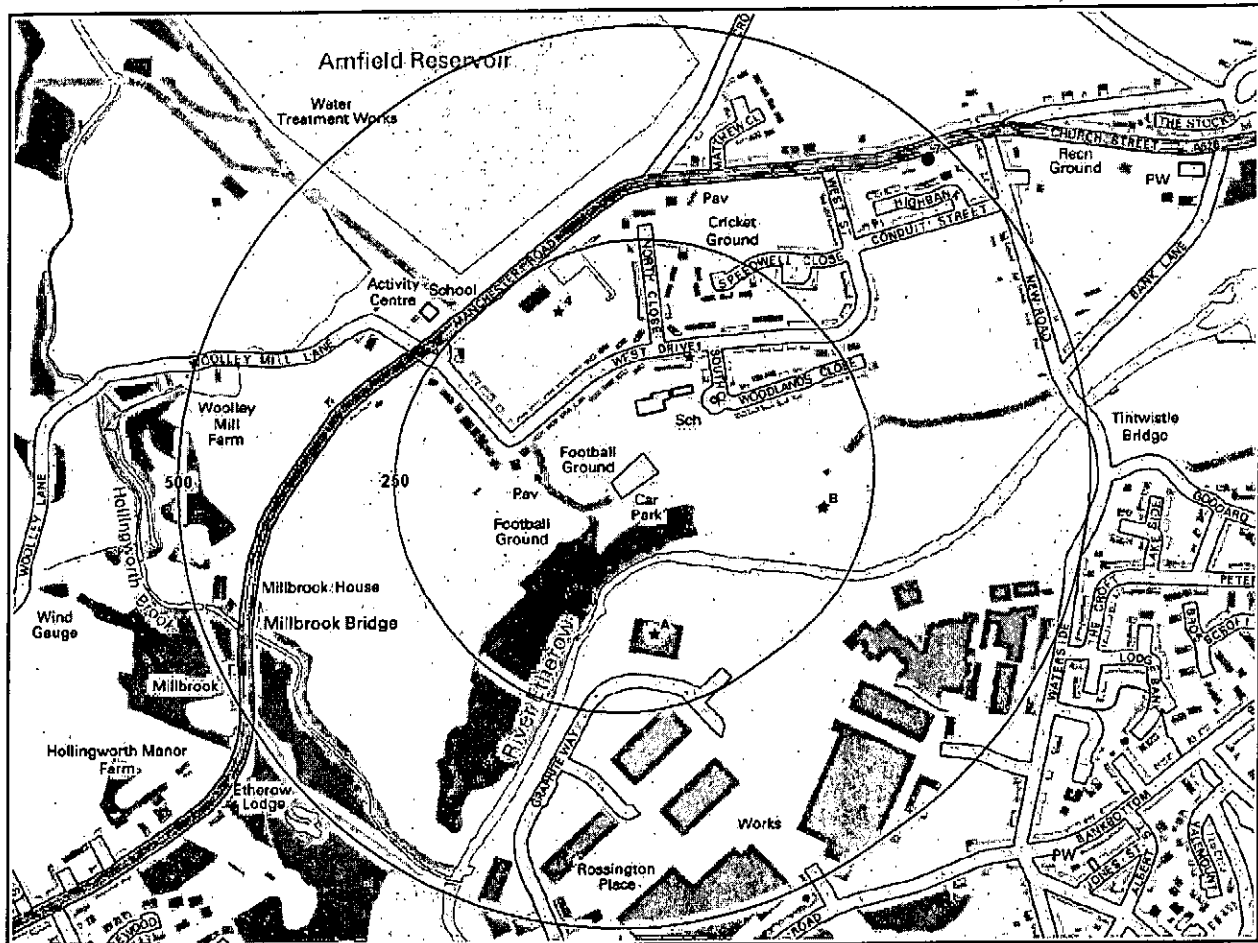
Database searched and no data found.

### Records of Environment Agency licensed waste sites within 1500m of the study site: 1

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

ID	Distance	Direction	NGR	Details
19	480.0	E	402023, 396736	Site Address: Waterside Garage, Waterside, Hadfield, Glossop, Derbyshire, SK13 1BS Type: Household, Commercial & Industrial Waste T Stn Size: < 25000 tonnes Regis Licence Number: BWD001 EPR reference: QP3696CK/A001 Operator: Beeson Waste Disposal Ltd Waste Management licence No: 53903 Annual Tonnage: 2083.33 Issue Date: 08/01/1991 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued Site Name: Beeson Waste Disposal Ltd 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:**

**6**

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

ID	Distance	Direction	Company	Address	Activity	Category
1	125.0	NE	Electricity Sub Station	SK13	Electrical Features	Infrastructure and Facilities
2A	163.0	S	Lynton Trailers UK Ltd	Unit 16, Graphite Way, Hadfield, Glossop, SK13 1QH	Lifting and Handling Equipment	Industrial Products
3A	163.0	S	O-Lynton Trailers UK Ltd	Unit 16, Graphite Way, Hadfield, Glossop, SK13 1QH	Vehicle Hire and Rental	Hire Services
4	194.0	NW	Water Treatment Plant	SK13	Non Alcoholic Drinks	Foodstuffs
5B	195.0	E	Works	SK13	Unspecified Works Or Factories	Industrial Features
6B	196.0	E	Sewage Works	SK13	Waste Storage, Processing and Disposal	Infrastructure and Facilities

### 3.2 Petrol and Fuel Sites

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

**1**

The following petrol or fuel site records provided by Catalist are represented as points on the Current Land Use map:

ID	Distance	Direction	NGR	Company	Address	LPG	Status
7	475.0	NE	401878, 397250	Obsolete	Tintwistle Garage, Manchester Road, Manchester Road, Hadfield, Tintwistle, Derbyshire, SK13 1LW	Not Applicable	Obsolete

### 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

Database searched and no data found.

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

### 4.2 Superficial Ground and Drift Geology

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

Lex Code	Description	Rock Type
TILLO-DMTN	TILL, DEVENSIAN	DIAMICTON

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

### 4.3 Bedrock and Solid Geology

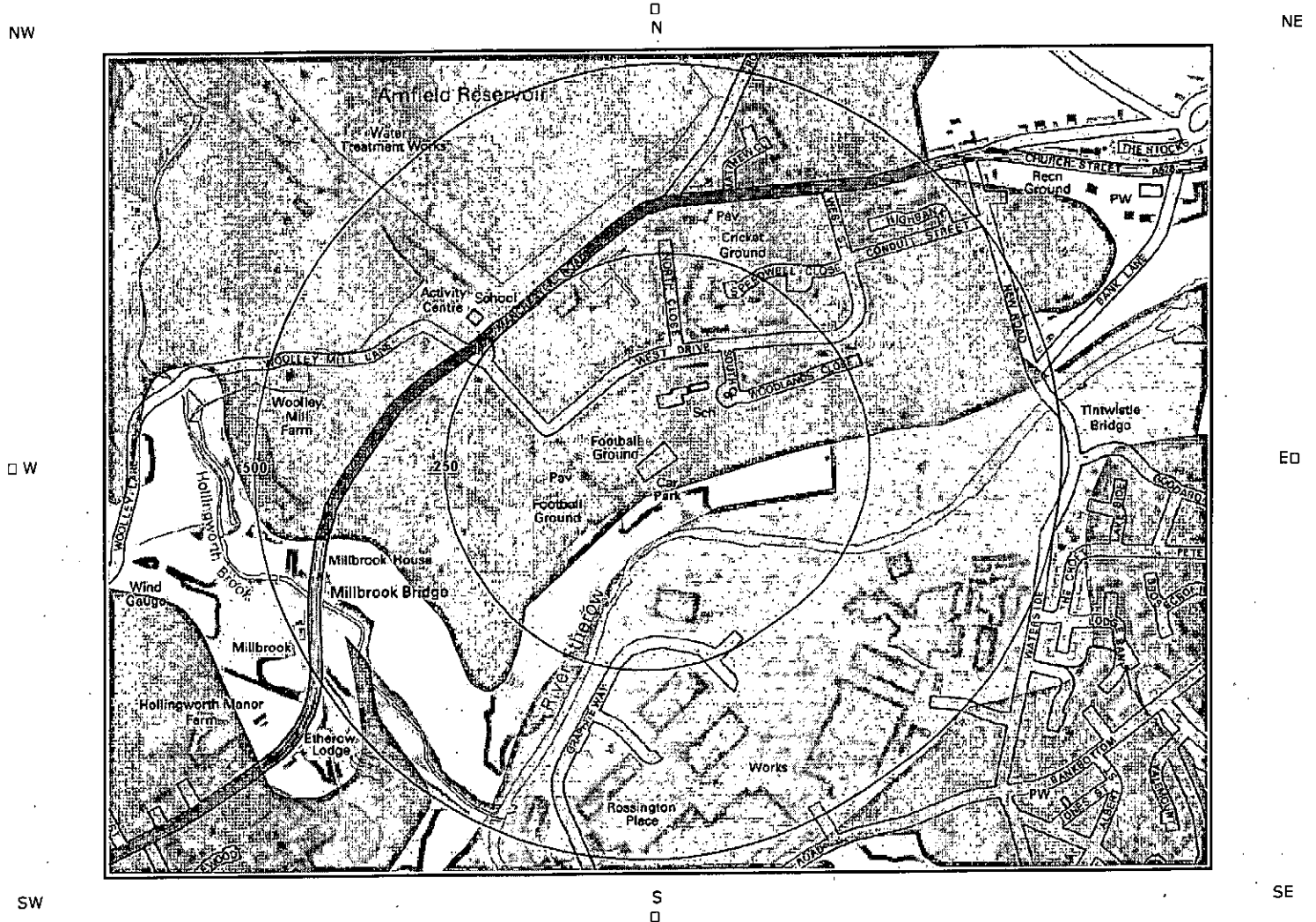
The database has been searched on site, including a 50m buffer.

LEX Code	Description	Rock Type
KG-SDST	KINDERSCOUT GRIT	SANDSTONE
MG-MDSS	MILLSTONE GRIT GROUP [SEE ALSO MIGR]	MUDSTONE, SILTSTONE AND SANDSTONE

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

For more detailed geological and ground stability data please refer to the "GroundSure GeoInsight". Available from our website.

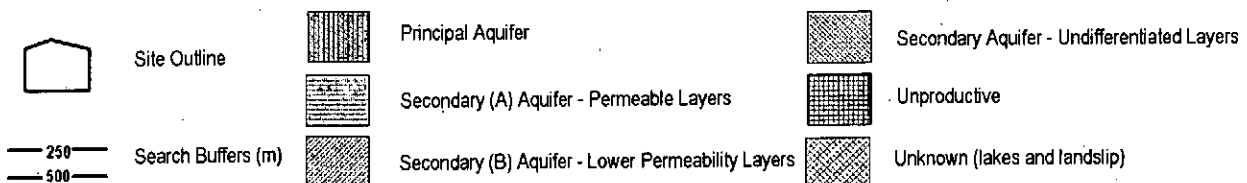
## 5a. Hydrogeology - Aquifer Within Superficial Geology



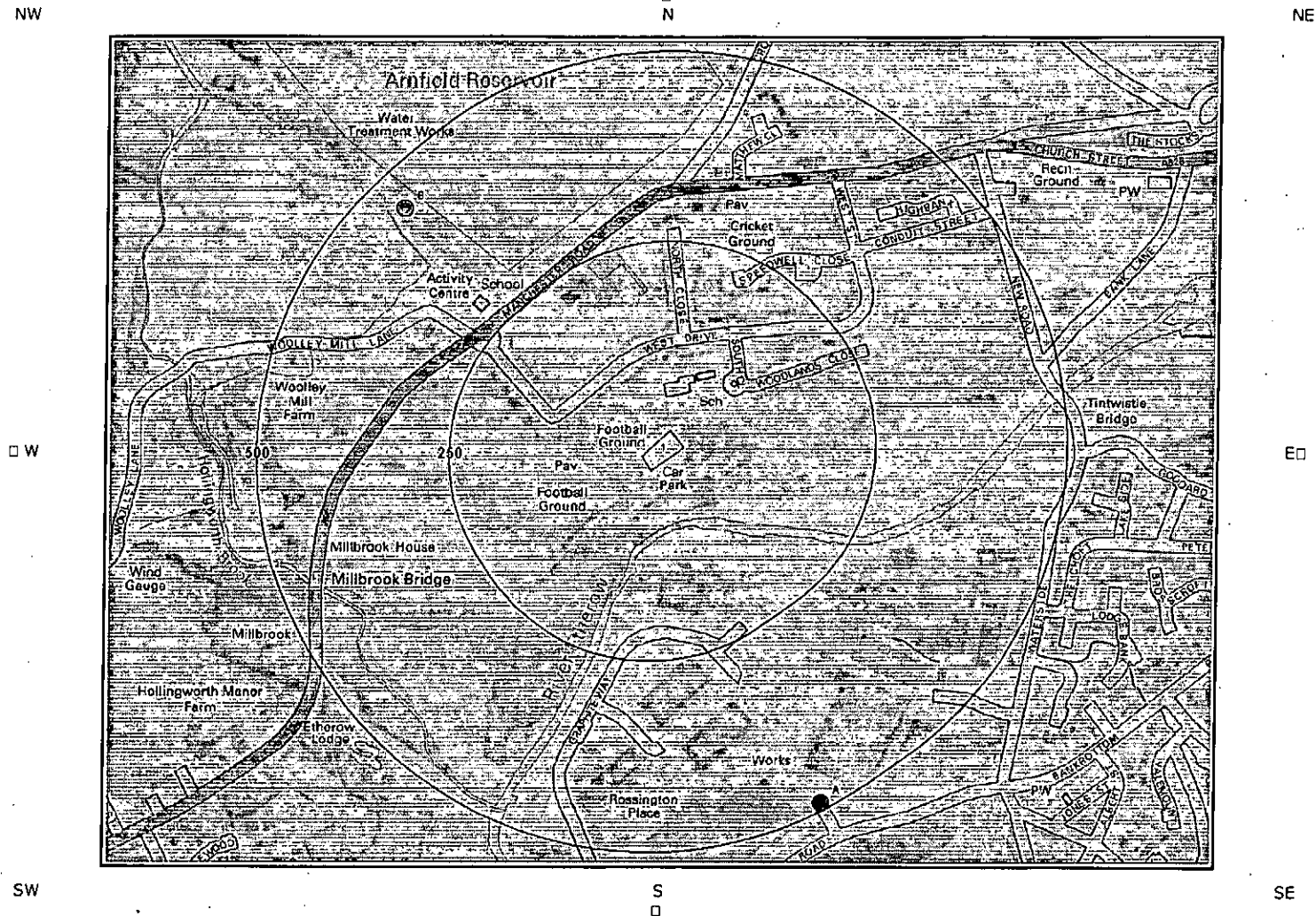
Aquifer Within Superficial Geology Legend

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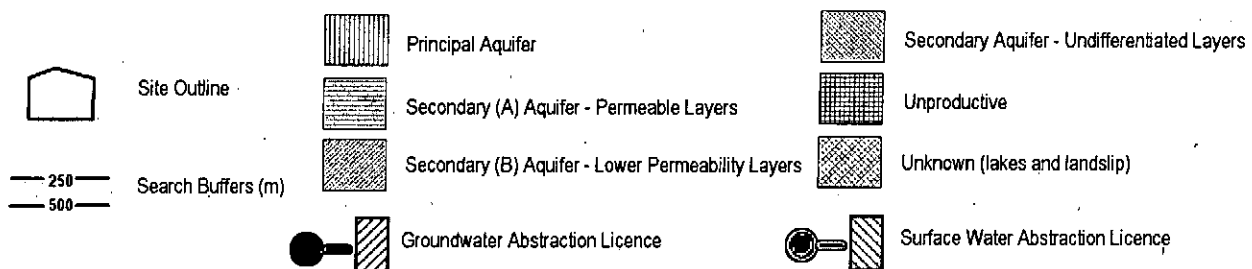
## 5b. Hydrogeology - Aquifer Within Bedrock Geology and Abstraction Licenses



Aquifer Within Bedrock Geology Legend

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## 5c. Hydrogeology – Source Protection Zones and Potable Water Abstraction Licenses

NW

N

NE

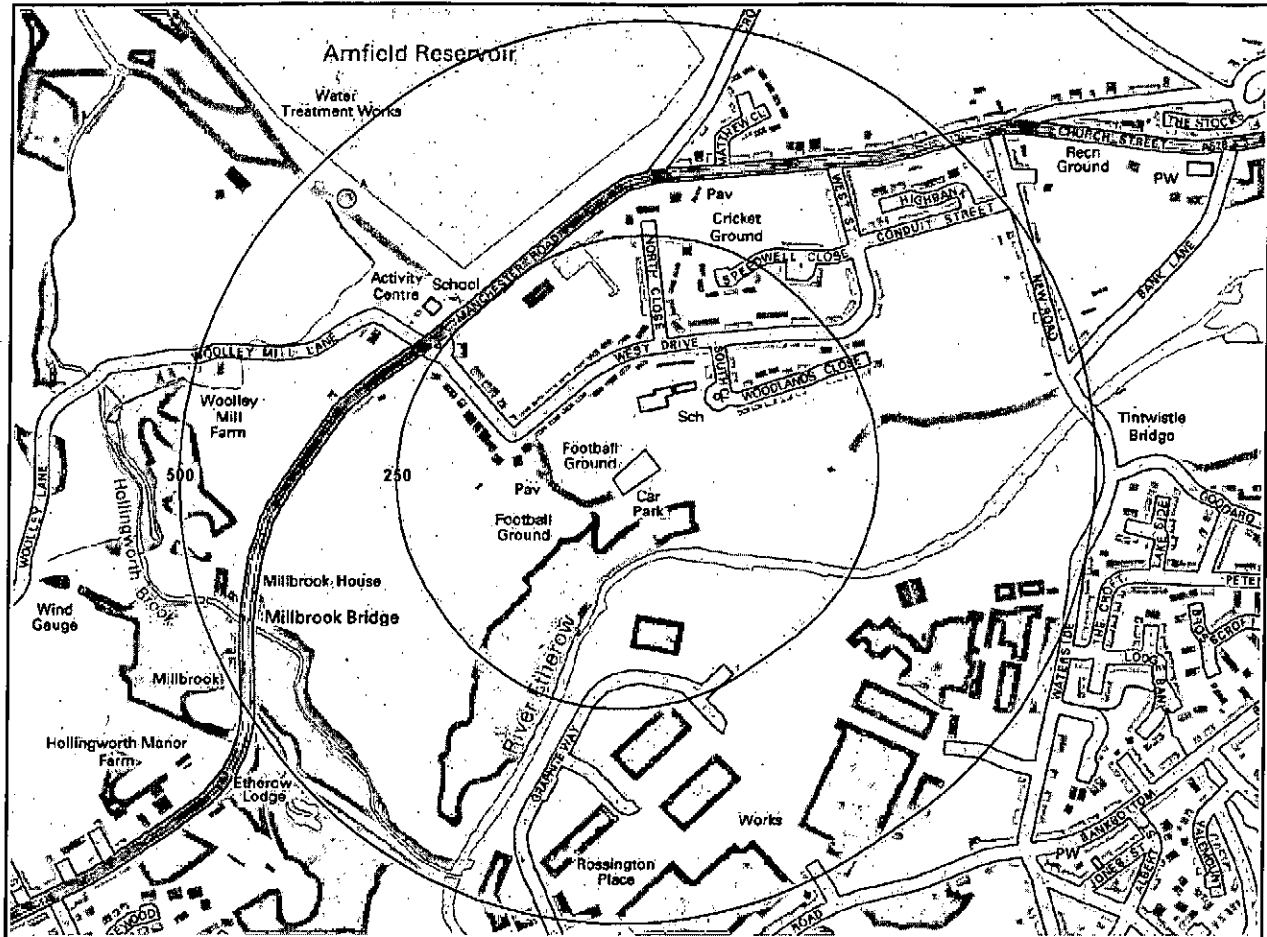
W

E

SW

S

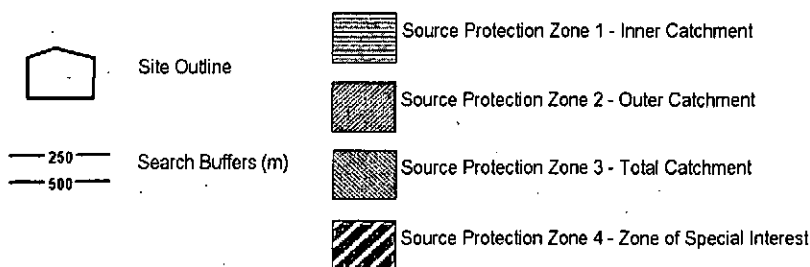
SE



SPZ and Potable Water Abstraction Licenses  
Legend

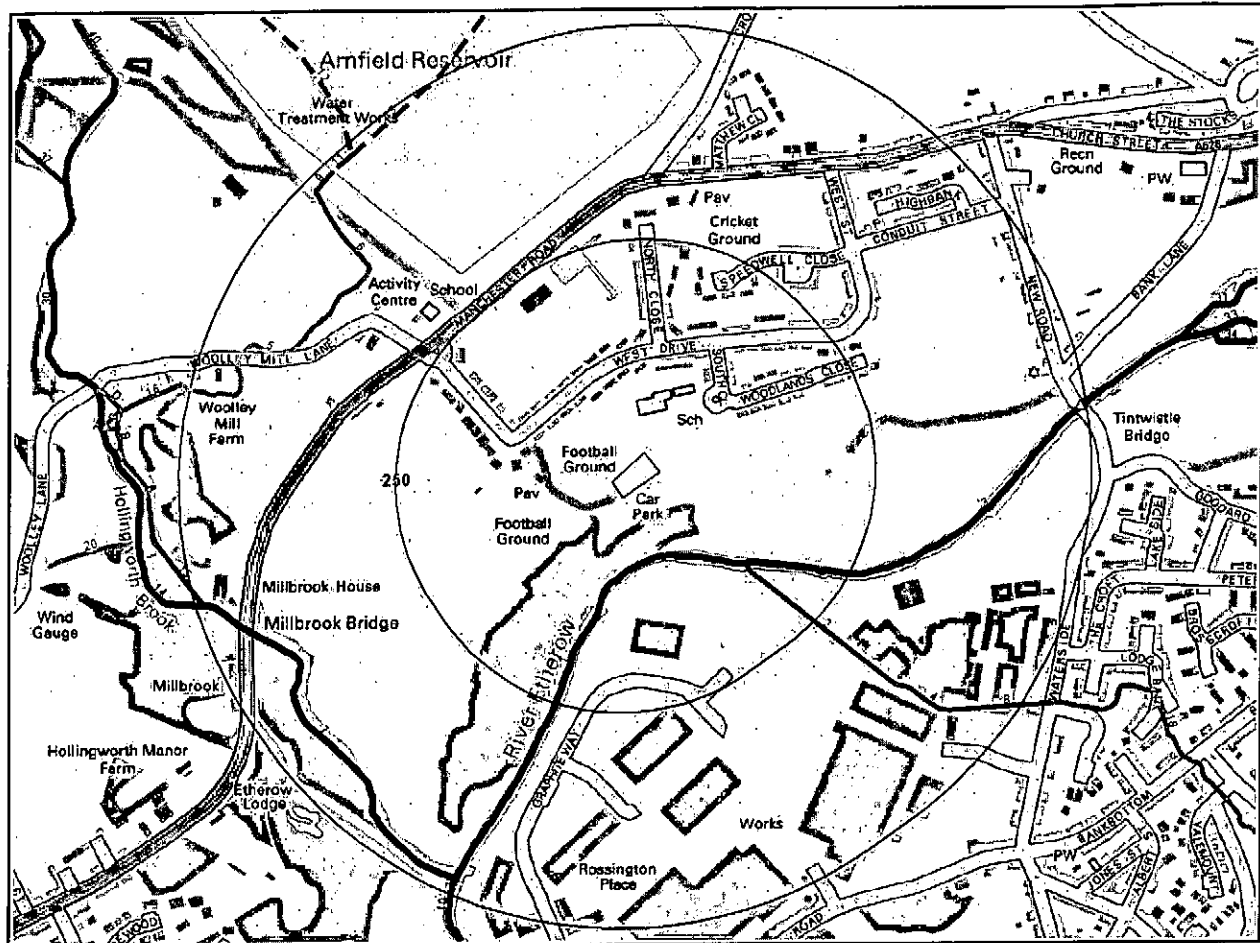
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Potable Water Abstraction Licence

## 5d. Hydrology – Detailed River Network and River Quality



### Hydrology Legend

	Site Outline		Primary River		Canal
	250 Search Buffers (m)		Secondary River		Canal Tunnel
	500 Search Buffers (m)		Tertiary River		Extended Culvert (greater than 50m)
			Lake/Reservoir		D/S of High Water Mark
			Underground River (inferred)		D/S seaward extension
			General Quality Assessment: Chemistry		General Quality Assessment: Biology

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## 5. Hydrogeology and Hydrology

### 5.1 Aquifer within Superficial Deposits

Are there records of productive strata 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
3	0.0	On Site	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
1	73.0	SE	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
4	435.0	SW	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow

### 5.2 Aquifer within Bedrock Deposits

Are there records of productive strata 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	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

### 5.3 Groundwater Abstraction Licences

Are there any Groundwater Abstraction Licences within 1000m 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	Direction	NGR	Details
2A	491.0	SE	401750, 396420	Licence No: 2569010010 Details: General Cooling (Existing Licences Only) (High Loss) Direct Source: Ground Water - North West Region Point: "a Borehole At Hadfield,hyde,cheshire" Data Type: Point Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: CW 0502 Original Start Date: 7/2/1966 Expiry Date: - Issue No: 101 Version Start Date: 20/2/1998 Version End Date:

3A	491.0	SE	401750, 396420	Licence No: 2569010010 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: "a Borehole At Hadfield,hyde,cheshire" Data Type: Point	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: CW 0502 Original Start Date: 7/2/1966 Expiry Date: - Issue No: 101 Version Start Date: 20/2/1998 Version End Date: -
4A	491.0	SE	401750, 396420	Licence No: 2569010010 Details: Boiler Feed Direct Source: Ground Water - North West Region Point: "a Borehole At Hadfield,hyde,cheshire" Data Type: Point	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: CW 0502 Original Start Date: 7/2/1966 Expiry Date: - Issue No: 101 Version Start Date: 20/2/1998 Version End Date: -
5A	491.0	SE	401750, 396420	Licence No: 2569010010 Details: Process water Direct Source: Ground Water - North West Region Point: "a Borehole At Hadfield,hyde,cheshire" Data Type: Point	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: CW 0502 Original Start Date: 7/2/1966 Expiry Date: - Issue No: 101 Version Start Date: 20/2/1998 Version End Date: -
6A	491.0	SE	401750, 396420	Licence No: 2569010010 Details: General Cooling (Existing Licences Only) (High Loss) Direct Source: Ground Water - North West Region Point: A Borehole At Hadfield,hyde,cheshire Data Type: Point	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: CW 0502 Original Start Date: 7/2/1966 Expiry Date: - Issue No: 101 Version Start Date: 20/2/1998 Version End Date: -
7A	491.0	SE	401750, 396420	Licence No: 2569010010 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: A Borehole At Hadfield,hyde,cheshire Data Type: Point	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: CW 0502 Original Start Date: 7/2/1966 Expiry Date: - Issue No: 101 Version Start Date: 20/2/1998 Version End Date: -
8A	491.0	SE	401750, 396420	Licence No: 2569010010 Details: Boiler Feed Direct Source: Ground Water - North West Region Point: A Borehole At Hadfield,hyde,cheshire Data Type: Point	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: CW 0502 Original Start Date: 7/2/1966 Expiry Date: - Issue No: 101 Version Start Date: 20/2/1998 Version End Date: -
9A	491.0	SE	401750, 396420	Licence No: 2569010010 Details: Process water Direct Source: Ground Water - North West Region Point: A Borehole At Hadfield,hyde,cheshire Data Type: Point	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: CW 0502 Original Start Date: 7/2/1966 Expiry Date: - Issue No: 101 Version Start Date: 20/2/1998 Version End Date: -

## 5.4 Surface Water Abstraction Licences

Are there any Surface Water Abstraction Licences within 1000m 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	Direction	NGR	Details
10B	450.0	NW	401200, 397200	Licence No: 2569010034 Details: Potable Water Supply - Direct Direct Source: "surface, Non-tidal - North West Region" Point: "woodhead,torside,rhodeswood,holling- worth & Arnfield Re\$156" Data Type: Point
				Annual Volume (m³): - Max Daily Volume (m³): - Application No: 1682 Original Start Date: 23/3/1966 Expiry Date: - Issue No: 100 Version Start Date: 11/2/1991 Version End Date: -