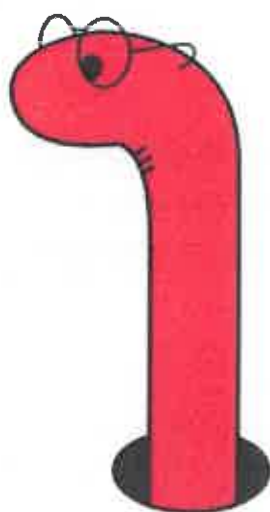


Electronic Report



320150768P

WORMS EYE

52 Bank Parade
Burnley
BB11 1TS
Phone
01282 414649 / 458410

Our Ref: Downham Road/BB7 4AV/2015

Date: 20/7/2015

Leanne Flynn
Avalon Chartered Town Planning
2 Reedley Business Centre
Redman Road
Reedley
BB10 2TY

PROPOSED HOUSES BEHIND 9 DOWNHAM ROAD,
CHATBURN, CLITHEROE, BB7 4AV
PRELIMINARY RISK ASSESSMENT (DESK STUDY)

INTRODUCTION

It is proposed to build two detached houses. The objective is to carry out a desk study, supplemented with a walk over survey, to form a Preliminary Risk Assessment to consider contamination, landfill gas and geotechnical issues.

SITE DESCRIPTION

The site is located to the South of Downham Road in Chatburn, Clitheroe, and at OS Grid Reference 376970, 444080. The site was inspected on 06/07/15 by Simon Gimeno and is about 30 by 40 metres with a 30 metre access coming in from the north. The site comprises a dilapidated, unused, workshop/garage with a builders' yard surrounding the south and west.

The workshop/garage comprises two sections one to the north running west to east and another section going north to south together, forming a 'T' shape. The northern section was made of breeze block to the west and stone to the east with a slate roof. The southern section again comprised a slate roof but with red brick walls. The building was being used to store materials, tractors, forklift trucks and gardening tools.

The builders' yard was surfaced with gravel creating a pathway through the centre of the site and then the remainder of the site was unkempt grass and weeds. The southwest corner appeared to have been used as a bonfire. Along the west of the yard was a porta cabin, JCB, skip and again various building materials. In the northwest corner was a canopy with a steam roller and building materials.

South of the building was a service pit with an old disused boiler, further to the south there was an abandoned truck/lorry, a shipping container storing various lengths of timber and an old rusted through steam roller.

Throughout the yard there are piles of scrap materials, oil drums, rubble and asbestos cement pieces.

To the north and northeast are houses, to the southeast is a railway line, and Chatburn Brook (at a lower level) forms the south boundary.

TREES

The southern boundary is bordered by deciduous trees up to 12 metres high these being mainly Sycamores, Elms and Ash. Along the west boundary to the south is a conifer tree standing at about 10 metres high with two deciduous trees thought to be Ash trees.

This is not an accurate arboricultural survey.

PROPOSED DEVELOPMENT

It is proposed to build two detached houses, each having a garden to the rear (south). At the northeast corner of the site will be a garage with adjacent workshop.

DATA SOURCES

The following data sources have been viewed in compiling this report.

- BGS, Geology Map, 1:50000 scale, Sheet 68, Clitheroe, Solid and Drift Edition
- BGS, on-shore boreholes scans (no nearby relevant records)
- Environment Agency, What's In Your Backyard
 - Groundwater
 - Landfill Sites
 - Pollution
- Landmark Envirocheck Report
- Ordnance Survey, Historical Maps, 1:10000 and 1:2500 scale
- Walkover Survey, 6/7/15.

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ENVIRONMENTAL DATA

A Landmark Envirocheck report has been obtained for the site and geological maps have been reviewed, the following is a summary of the combined data. The Envirocheck report indicated none of the following within 250 metres:

- Contaminated land register entries
- Source protection zones
- Radioactive sites
- Hazardous substances sites
- Sensitive land uses

Geology of Site

The geological map indicates that the underlying solid rocks are Chatburn Limestone.

The site is shown to be free of drift deposits and natural subsidence hazards are shown as very low to no hazard.

Surface Water (Hydrology)

Chatburn Brook, GQA Grade B, forms the South boundary.

There are no discharge consents within 100 metres.

There are two listed pollution incidents within 200 metres, both minor incidents of unknown sewage to Chatburn Brook*

A water abstraction point at Smith and Nephew, 189 metres northwest, is now revoked*

The site is shown to be at risk of flooding from the adjacent brook.

The area slopes down to the southwest, however, the flow of surface water is expected to be to the brook to the South.

* not relevant due to distance/severity/significance

Groundwater (Hydrogeology)

The solid rocks under the site are indicated as a Secondary A aquifer.

No details are given for superficial (drift) deposits.

Groundwater flow is likely to follow the topography and move to the southwest and the brook.

Landfill Sites

A small historical landfill site is shown 96 metres east where waste types are shown to have included inert waste. No details are given or input dates.

Radon

Between 5-10% of homes in the area are above the radon action level. Basic radon protection measures are required.

Nearby Industry

A car dealers is listed as 63 metres north*

A fuel station (now closed) is shown 95 metres north*

* not relevant due to distance/severity/significance

SITE HISTORY

Date	On Site	Off Site
1847 (1:10560)	Poor mapping – Site appears undeveloped	Houses immediately northeast and northwest, and 10m north Chatburn Brook immediately South.
1886 (1:2500)	Building at northeast corner.	Railway immediately east, in cutting. Cotton Mill 215m northwest.
1912 (1:2500)	Small buildings on east of site.	No relevant change
1932 (1:2500)	Little or no change.	Cotton Mill extended, now 160m northwest.
1973 (1:2500)	Building extended to the South.	No relevant change.
1994 (1:2500)	Little or no change	Cotton Mill to northwest demolished.
2015	Little or no change	No relevant change

ANECDOTAL EVIDENCE

Discussions with the client indicate the following:

- The site has not been used for about 30 years.
- Prior to this the site was a small vehicle, transport yard.
- The building was used for repairs/maintenance of vehicles.
- The site has been filled to form a level area.

DISCUSSION

Contamination

The site is a former transport yard with the building used for repairs. This is a potential source of contaminants especially beneath and around the building.

The fill material used to level the site is from an unknown source and is another potential source of contaminants. Contamination is therefore expected, at levels exceeding residential thresholds, and a risk to householders is likely.

There are no nearby land uses that will affect the site and no pollution incidents on or close to the site.

The proposed development will be houses with gardens. Potential pollutant linkages are:

- Direct contact with soil.
- Ingestion of soil.
- From homegrown vegetables and soil attached to vegetables.
- Inhalation and ingestion of dust.
- Sulphate attack on buried concrete.
- Inhalation of vapours.
- Contaminants entering drinking water pipes.

Controlled Waters

There is an underlying Secondary A aquifer beneath little or no drift deposits.

Chatburn Brook forms the south boundary.

The gardens will allow rainwater to pass through the surface soils potentially leaching out contaminants that may migrate towards the aquifer and brook. Contamination is expected and, bearing in mind the absence of drift deposits, and short pathway to the brook, a risk to both receptors is considered likely.

Landfill Gas/Ground Gas

There is an inert landfill site 96 metres east, this is a small site (about 30 metres diameter on the Envirocheck Plan) and a low gas generation potential is possible.

The nature of the made ground beneath the site is not known, neither is the thickness. At this stage this is therefore considered to be a possible gas source and potential risk to the development.

The age of filling suggests a low degradable matter content is likely and, taking into account protection, precautionary gas protection is considered suitable, instead of testing.

Radon

Basic radon protection measures are required.

Flooding

The Environment Agency maps show that this site is at risk of flooding from the adjacent brook.

Information is obtained from the EA flood maps and suggests areas where rivers would flood. There are two zones:

- 'normal' flooding, based on a 1 in 100 chance of it happening in any year (1:200 if flooding is from the sea). This is normally closer to the river.
- 'extreme' flooding, further away from the river and having a 1 in 1000 chance.

Flood defences are sometimes shown on the maps and a purple line indicates these; the hatched areas behind show places that are defended up to a 1 in 100 chance.

Flooding can occur for many reasons other than those dealt with by the EA maps. These include:

- burst pipes
- blocked drains, sewers and culverts
- inadequate drainage
- cloudbursts/flash flooding overwhelming normally satisfactory drainage systems

Statements in this report such as 'clear of flooding/flood plain' and 'flooding – no further action' are references to the EA river and sea flood maps and are no guarantee that flooding will not occur.

Foundations

The geology map suggests the site is underlain by rock at shallow depth, which often provides a good bearing strata for traditional shallow foundations. However, there is suspected made ground on site and a range of foundation options may need to be considered.

INDUSTRY PROFILE

The site was formerly transport yard.

Industry	Possible Contaminants
Garage Services	Metals: lead, chromium, copper Volatile organic compounds/solvents (VOC) Fuel: petrol, diesel, MTBE Polycyclic aromatic hydrocarbons (PAH) Asbestos

CONCEPTUAL MODEL

A conceptual model based on the source-pathway-receptor concept is included with this desk study to show the potential pollutant linkages with this site.

Source	Receptors	Pathway	Likely Pollutant Linkage
Construction Activity	Chatburn Brook	Risks of silt, water, litter, fuels reaching brook	Yes
Asbestos	Construction workers	Inhalation	Yes
	End-users	Inhalation	Yes
Inorganic contaminants	Construction workers	Short-term direct contact, inhalation of dust, ingestion	Possible
	Householders	Direct contact, ingestion, from home grown vegetables, inhalation of dust	Yes
	Groundwater	Leaching towards	Possible
	Chatburn Brook	Leaching towards	Possible
Sulphate	Building fabric	Concrete directly in contact with soil	Unlikely
Hydrocarbons	Construction workers	Short-term direct contact, inhalation of dust, ingestion	Yes
	Householders	Direct contact, ingestion, from home grown vegetables, inhalation of dust	Yes
	Service pipes	Seeping into drinking water pipes	Yes
	Groundwater	Migrating towards	Yes
	Chatburn Brook	Migrating/leaching towards	Yes
Hydrocarbon vapours	Construction workers	Short-term inhalation	Unlikely
	Householders	Inhalation of vapours indoors and outdoors	Unlikely
Landfill gas	End-users - in buildings	Seeping into buildings, explosion, asphyxiation	Possible
Radon	End-users - in buildings	Seeping into buildings	Yes

CONCLUSION

Contamination

Taking into account the past use of the site it is thought likely that contamination will be present on the site, exceeding residential thresholds.

An intrusive investigation is required, consisting of boreholes/trial holes and tests to confirm the presence and extent of contamination on the site.

There are no specific point sources for contamination and the investigation will need to target the existing building, proposed gardens (most sensitive part of the development), proposed buildings and provide all round coverage.

Controlled Waters

A potential risk to controlled water is expected and it is likely that leachate tests, and possibly tests on water samples, will be required.

This will need to be reviewed following the soil tests, allowing those contaminants and areas of the site where there is a concern to be targeted.

There is a significant risk from soil, water, litter, fuels etc impacting Chatburn Brook during construction.

Landfill Gas/Ground Gas

Basic radon protection measures are required.

There is a potential gas risk from on-site made ground. It is considered that, subject to Local Authority Permission, precautionary gas protection measures for landfill gas and radon will adequately reduce the risk. The following are considered appropriate:

- Ventilation of confined spaces within building
- A well-constructed ground slab/ or ventilated sub-floor void
- A low-permeability gas membrane.
- Minimum penetration of ground slab by services.
- Also gas precautions should continue across the cavity.

It is recommended that the decision on the membrane be left until after contamination tests have been completed, and the potential risk from hydrocarbons evaluated.

Flooding

The Environment Agency maps suggest that the site could flood, however these maps are fairly crude. A topographical survey could clarify the situation and a comprehensive survey could clarify the situation.

Foundations

Made ground over limestone is suspected.

A series of boreholes are required in the area of the proposed building to allow the most suitable foundations to be designed.

Retaining/river bank walls need to be considered up against Chatburn Brook.

Yours faithfully
on behalf of Worms Eye Ltd

David Lord
BSc (Hons)
FGS, MIEEnvSc, AIEEMA

PROPOSED HOUSES AT 9 DOWNHAM ROAD,
CHATBURN, CLITHEROE, BB7 4AV

List of Appendices – Desk Study

Existing Site Plan – 1:500

Photographs of site

Avalon Proposed Site Plan

Landmark Summary Map

Enlarged Floor Map

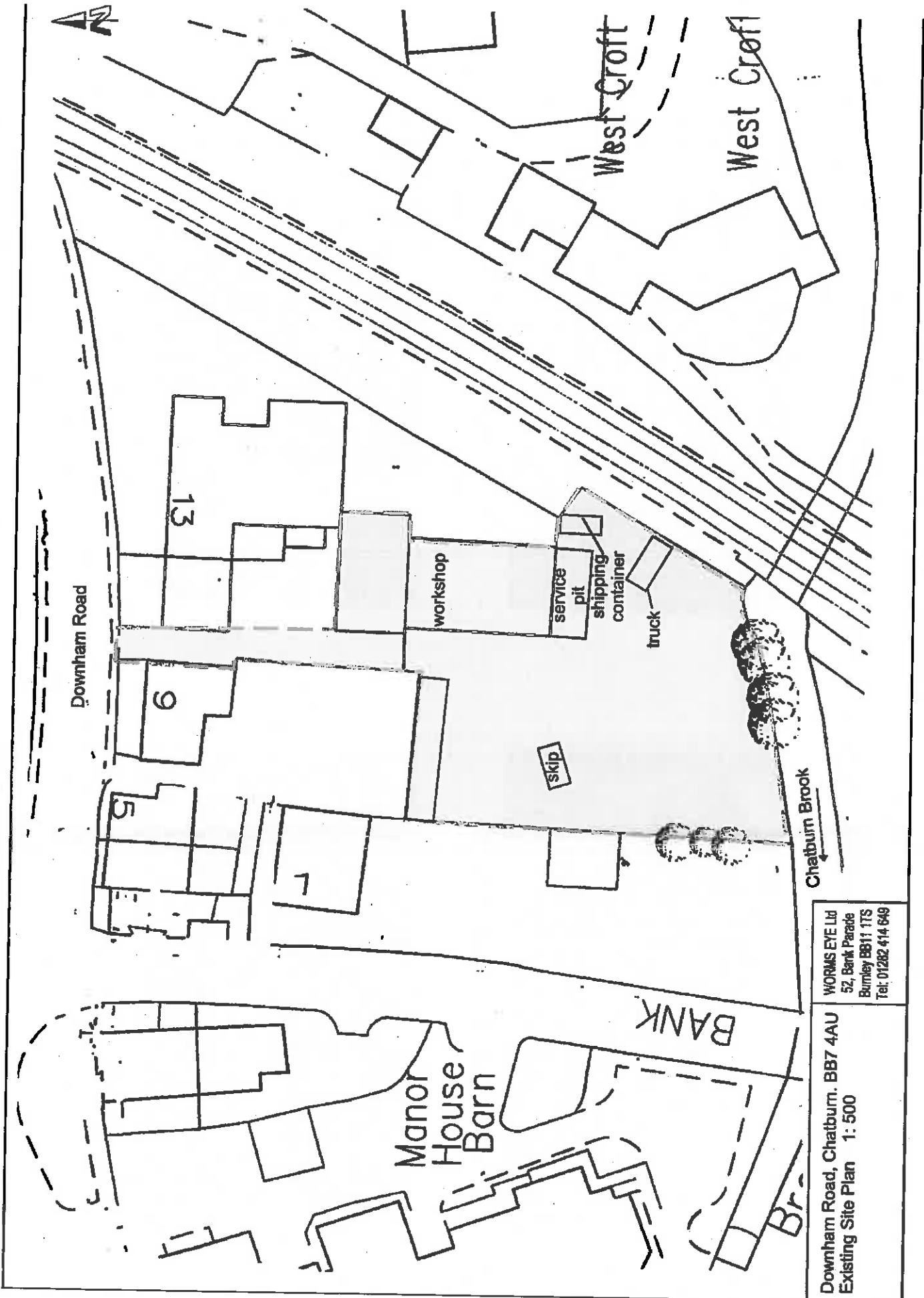
Landmark Envirocheck Report

Historical Maps

Conceptual Model

ABBREVIATIONS

<u>Chemical</u>	BAP	Benzo(a)pyrene
	BTEX	Benzene, toluene, ethylbenzene, xylene
	DAHA	Dibenzo(ah)anthracene
	MTBE	Methyl tertiaryt-butyl ether (additive to petrol)
	EPH	Extractable Petroleum Hydrocarbons (formerly Diesel Range Organics – DRO)
	NFD	No fibres detected (asbestos test)
	PAH	Polycyclic aromatic hydrocarbons
	PCB	Polychlorinated biphenyls
	PID	Photo ionisation detector
	PRO/GRO	Petrol range organics/gasoline range organics
	SVOC	Semi-volatile organic compounds
	TCE	Trichloroethylene
	TPH	Total petroleum hydrocarbons
	VOC	Volatile organic compounds
 <u>Other</u>		
	AGS	Association of Geotechnical Specialists
	BGS	British Geological Survey
	BRE	Building Research Establishment
	CBR	California Bearing Ratio
	CIEH	Chartered Institute of Environmental Health
	CIRIA	Construction Industry Research and Information Association
	CLEA	Contaminated Land Exposure Assessment (Environment Agency)
	CLR 8	Contaminated Land Research Report 8 (Environment Agency)
	DWQ	Drinking water quality
	EA	Environment Agency
	EQS	Environmental quality standards
	ICRCL	Inter-departmental Commission for the Reclamation of Contaminated Land
	LQM	Land Quality Management Ltd (Land and Environmental Consultancy)
	NHBC	National House Builders Council
	SGV	Soil Guideline Values
	SPT	Standard penetration test
	TPHWG	TPH Working Group



Downham Road, Chatburn. BB7 4AU
 Existing Site Plan 1: 500

WORMS EYE Ltd
 52, Bank Parade
 Burnley BB11 1TS
 Tel: 01282 414 649

Downham Road, Chatburn, BB7 4AU



view of site looking northeast



bonfire remains and asbestos fragments in southwest corner

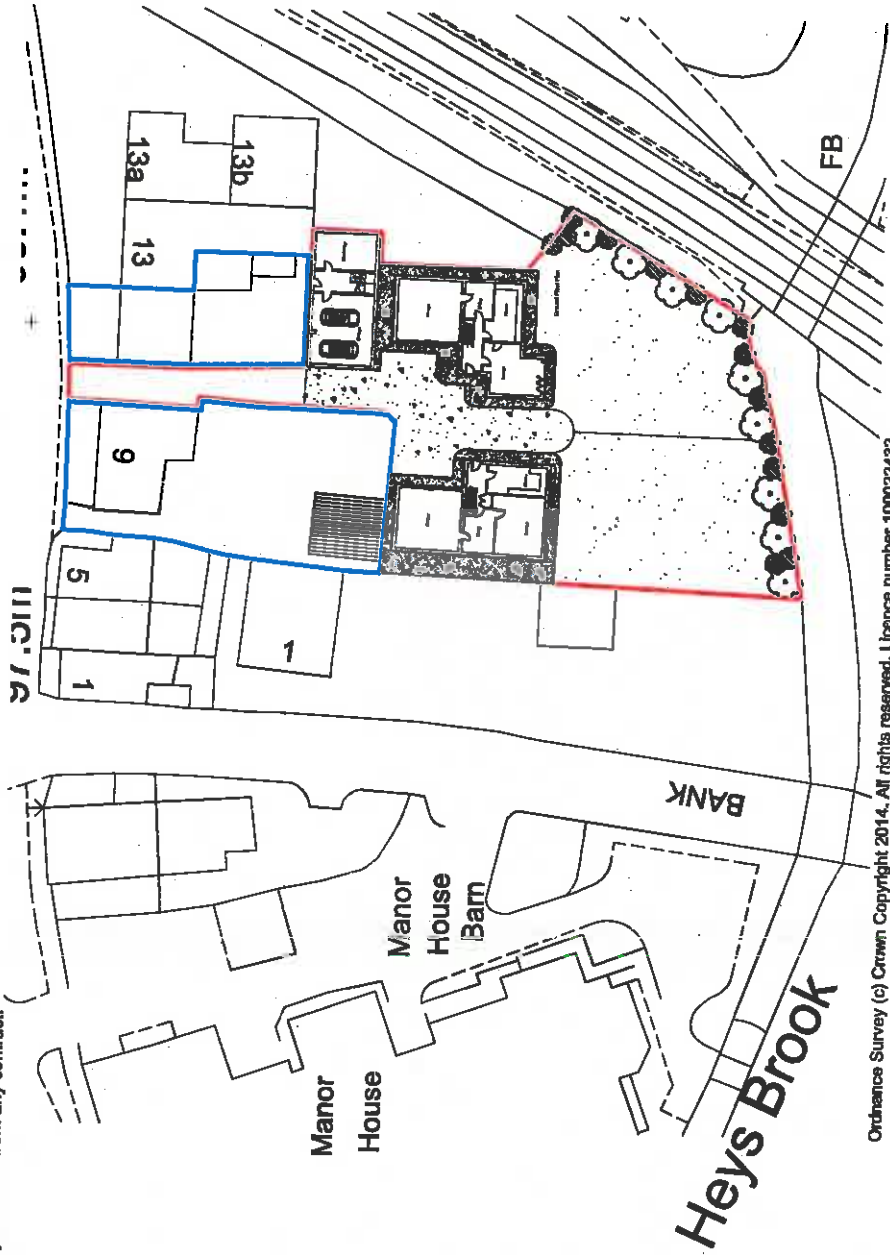


view of site looking southwest



service pit

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SITE PLAN

Site: 9 Downham Road
 Chatburn
 BB7 4AU

Client: Alan Jackson

Drawn: HA

Date: 28.01.15

Scale: 1:500 @ A3

Project No: JACKS/04 - Dwg 01

Amendments:

Avalon

Chartered Town Planning

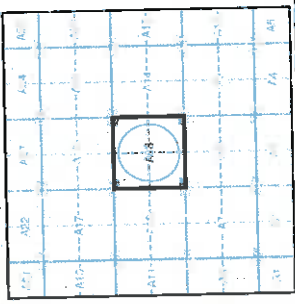
Town Planning - Architectural Design - Building Regulations - Surveying

Phone: 01282 834834 Fax: 01282 451666
 www.avalonplanning.co.uk Email: planning@avalonplanning.co.uk
 2 Rosedale Business Centre, Nelson Road, Barmby, Lancashire, BB19 2TY

Notes:
 All work to be carried out to the latest current British standards Codes of Practice and recognised working practices.
 All work and materials should comply with Health and Safety legislation and to be approved by the Local Authority Planning / Building Control Officer.
 All dimensions are in millimetres unless otherwise stated. The contractor should check and clarify all dimensions as work proceeds and notify the design team of any discrepancies. Do not scale off the drawings. If in doubt ask.
 Avalon Chartered Town Planning are not liable for work undertaken prior to Full Planning Consent and/or Building Regulations Approval

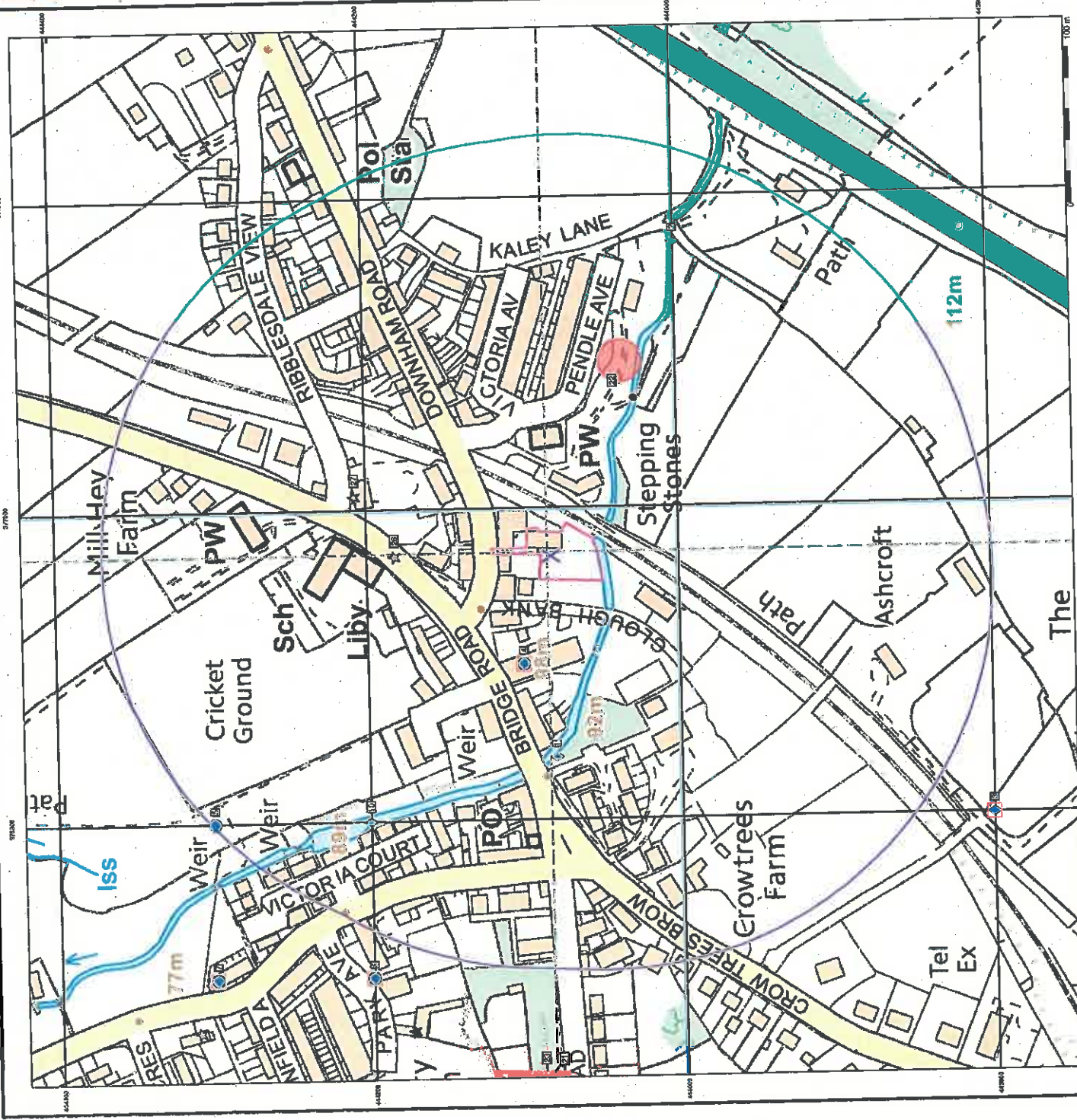
- General**
- Specified Site
 - Specified Buried
 - Bearing Reference Point
 - Map ID
 - General of Type or Location
- Agency and Hydrological**
- Contaminated Land Register Entry or Notice
 - Contaminated Land Register Entry or Notice
 - Discharge Consent
 - Enforcement or Prohibition Notice
 - Integrated Pollution Control
 - Local Authority Integrated Pollution Prevention
 - Local Authority Pollution Prevention and Control
 - Local Authority Pollution Prevention and Control Enforcement
 - Pollution Incident to Controlled Waters
 - Pollution Incident to Controlled Waters
 - Prevention relating to Authorised Processes
 - Prevention relating to Controlled Waters
 - Registered Invasive Substances
 - River Network or Water Feature
 - River Quality Sampling Point
 - Sewerage Pollution Incident Register
 - Water Abstraction
 - Water Industry Act Reference
- Waste**
- BMS Incorporated Landfill Site (General)
 - BMS Incorporated Landfill Site
 - EA Mobile Landfill (General Field)
 - EA Mobile Landfill (General Field)
 - Integrated Pollution Control Registered Landfill Site
 - Local Authority Incorporated Landfill Site (General)
 - Local Authority Incorporated Landfill Site (General)
 - Registered Landfill Site
 - Registered Landfill Site (General)
 - Registered Landfill Site (plus reference to 2006)
 - Registered Waste Transfer Site (General)
 - Registered Waste Transfer Site (General)
 - Registered Waste Treatment or Disposal Site (General)
 - Registered Waste Treatment or Disposal Site
- Geological**
- BGS Incorporated Mineral Site
- Industrial Land Use**
- Contemporary Trade Directory Entry
 - Fuel Station Entry

Site Sensitivity Map - Segment A13



Order Details
 Order Number: 69227055_1_1
 Customer Ref: BB7 4AU
 National Grid Reference: 376970, 4441080
 Slice: A
 Site Area (Ha): 0.14

Site Details
 9 Downham Road, Chatburn, CLITHEROE, Lancashire, BB7 4AU



Envirocheck[®] Report: Datasheet

Order Details:

Order Number:
69227055_1_1

Customer Reference:
BB7 4AU

National Grid Reference:
376970, 444080

Slice:
A

Site Area (Ha):
0.14

Search Buffer (m):
500

Site Details:

9 Downham Road
Chatburn
CLITHEROE
Lancashire
BB7 4AU

Client Details:

Mr D Lord
EC Environmental Ltd
1 Grasmere Close
Colne
Lancashire
BB8 7DN

Report Section	Page Number
Summary	-
Agency & Hydrological	1
Waste	7
Hazardous Substances	-
Geological	8
Industrial Land Use	13
Sensitive Land Use	14
Data Currency	15
Data Suppliers	19
Useful Contacts	20

Introduction

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

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

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Report Version v49.0

Data Type	Page Number	On Site	0 to 250m	251 to 500m (*up to 1000m)
Agency & Hydrological				
Contaminated Land Register Entries and Notices				
Discharge Consents	pg 1		2	3
Enforcement and Prohibition Notices				
Integrated Pollution Controls				
Integrated Pollution Prevention And Control				
Local Authority Integrated Pollution Prevention And Control				
Local Authority Pollution Prevention and Controls				
Local Authority Pollution Prevention and Control Enforcements				
Nearest Surface Water Feature	pg 2	Yes		
Pollution Incidents to Controlled Waters	pg 2		3	6
Prosecutions Relating to Authorised Processes				
Prosecutions Relating to Controlled Waters				
Registered Radioactive Substances				
River Quality	pg 3	1	1	
River Quality Biology Sampling Points				
River Quality Chemistry Sampling Points				
Substantiated Pollution Incident Register				
Water Abstractions	pg 4		1	
Water Industry Act Referrals				
Groundwater Vulnerability	pg 4	Yes	n/a	n/a
Bedrock Aquifer Designations	pg 4	Yes	n/a	n/a
Superficial Aquifer Designations			n/a	n/a
Source Protection Zones				
Extreme Flooding from Rivers or Sea without Defences	pg 4	Yes		n/a
Flooding from Rivers or Sea without Defences	pg 4	Yes	Yes	n/a
Areas Benefiting from Flood Defences				n/a
Flood Water Storage Areas				n/a
Flood Defences				n/a
Detailed River Network Lines	pg 4		Yes	Yes
Detailed River Network Offline Drainage	pg 6			Yes

Data Type	Page Number	On Site	0 to 250m	251 to 500m (*up to 1000m)
Waste				
BGS Recorded Landfill Sites	pg 7			1
Historical Landfill Sites	pg 7		1	1
Integrated Pollution Control Registered Waste Sites				
Licensed Waste Management Facilities (Landfill Boundaries)				
Licensed Waste Management Facilities (Locations)				
Local Authority Recorded Landfill Sites				
Registered Landfill Sites	pg 7			1
Registered Waste Transfer Sites				
Registered Waste Treatment or Disposal Sites				
Hazardous Substances				
Control of Major Accident Hazards Sites (COMAH)				
Explosive Sites				
Notification of Installations Handling Hazardous Substances (NIHHS)				
Planning Hazardous Substance Consents				
Planning Hazardous Substance Enforcements				
Geological				
BGS 1:625,000 Solid Geology	pg 8	Yes	n/a	n/a
BGS Estimated Soil Chemistry	pg 8	Yes	Yes	Yes
BGS Recorded Mineral Sites	pg 11			1
BGS Urban Soil Chemistry				
BGS Urban Soil Chemistry Averages				
Brine Compensation Area			n/a	n/a
Coal Mining Affected Areas			n/a	n/a
Mining Instability			n/a	n/a
Man-Made Mining Cavities				
Natural Cavities				
Non Coal Mining Areas of Great Britain	pg 12	Yes		n/a
Potential for Collapsible Ground Stability Hazards	pg 12	Yes		n/a
Potential for Compressible Ground Stability Hazards				n/a
Potential for Ground Dissolution Stability Hazards	pg 12	Yes	Yes	n/a
Potential for Landslide Ground Stability Hazards	pg 12	Yes		n/a
Potential for Running Sand Ground Stability Hazards	pg 12		Yes	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 12		Yes	n/a
Radon Potential - Radon Affected Areas	pg 12	Yes	n/a	n/a
Radon Potential - Radon Protection Measures	pg 12	Yes	n/a	n/a

Data Type	Page Number	On Site	0 to 250m	251 to 500m (*up to 1000m)
Industrial Land Use				
Contemporary Trade Directory Entries	pg 13		1	n/a
Fuel Station Entries	pg 13		1	
Sensitive Land Use				
Areas of Adopted Green Belt				
Areas of Unadopted Green Belt				
Areas of Outstanding Natural Beauty	pg 14			1
Environmentally Sensitive Areas				
Forest Parks				
Local Nature Reserves				
Marine Nature Reserves				
National Nature Reserves				
National Parks				
Nitrate Sensitive Areas				
Nitrate Vulnerable Zones				
Ramsar Sites				
Sites of Special Scientific Interest	pg 14			1
Special Areas of Conservation				
Special Protection Areas				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	<p>Discharge Consents</p> <p>Operator: Lafarge Tarmac Trading Limited Property Type: General Construction Work Location: Bankfield Quarry, Pimlico Link Road, Clitheroe, Lancashire, Bb7 4qa Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 017190614 Permit Version: 1 Effective Date: 11th February 1999 Issued Date: 11th February 1999 Revocation Date: Not Supplied Discharge Type: Discharge Of Other Matter-Surface Water Discharge: Freshwater Stream/River Environment: Receiving Water: Hays (Chatburn) Brook Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m</p>	A13SW (W)	114	2	376840 444080
2	<p>Discharge Consents</p> <p>Operator: Jack & Marian Howard Property Type: Domestic Property (Single) Location: Whitecroft, Kaley Lane Off Pendle Av, Chatburn, Clitheroe, Lancashire, Bb7 4ax Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 011644 Permit Version: 1 Effective Date: 21st March 1989 Issued Date: 21st March 1989 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Heyes Brook Status: Pre National Rivers Authority Legislation where issue date < 01/09/1989 Positional Accuracy: Located by supplier to within 100m</p>	A13SE (E)	194	2	377170 444000
3	<p>Discharge Consents</p> <p>Operator: Mr Simon Campbell Property Type: Domestic Property (Single) Location: The Royds Septic Tank And Soakaway The Royds, Chatburn, Clitheroe, Lancashire, Bb7 4lb Authority: Environment Agency, North West Region Catchment Area: Ribble Reference: 017190605 Permit Version: 3 Effective Date: 4th April 2007 Issued Date: 4th April 2007 Revocation Date: 4th April 2019 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Land/Soakaway Environment: Receiving Water: Land Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 100m</p>	A13SW (SW)	292	2	376800 443800
3	<p>Discharge Consents</p> <p>Operator: Mr Simon Campbell Property Type: Domestic Property (Single) Location: The Royds Septic Tank And Soakaway The Royds, Chatburn, Clitheroe, Lancashire, Bb7 4lb Authority: Environment Agency, North West Region Catchment Area: Ribble Reference: 017190605 Permit Version: 2 Effective Date: 12th March 2007 Issued Date: 12th March 2007 Revocation Date: 3rd April 2007 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Land/Soakaway Environment: Receiving Water: Land Status: Consent revoked or revised: New Consent issued (Section 37(1)) Positional Accuracy: Located by supplier to within 100m</p>	A13SW (SW)	292	2	376800 443800

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
3	Discharge Consents Operator: Mr Simon Campbell Property Type: Domestic Property (Single) Location: The Royds Septic Tank And Soakaway The Royds, Chatburn, Clitheroe, Lancashire, Bb7 4lb Authority: Environment Agency, North West Region Catchment Area: Ribble Reference: 017190605 Permit Version: 1 Effective Date: 11th September 1998 Issued Date: 11th September 1998 Revocation Date: 11th March 2007 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Onto Land Environment: Receiving Water: Land Status: Consent revoked or revised: New Consent Issued (Section 37(1)) Positional Accuracy: Located by supplier to within 100m	A13SW (SW)	292	2	376800 443800
	Nearest Surface Water Feature	A13SE (S)	0	-	376977 444054
4	Pollution Incidents to Controlled Waters Property Type: Private Sewage (Non-PLC): Sewerage Systems Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Unknown Sewage Note: Chatburn Brook Incident Date: 4th July 1991 Incident Reference: 91340055 Catchment Area: Ribble - Non-Tidal Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13NW (W)	55	2	376900 444095
4	Pollution Incidents to Controlled Waters Property Type: Private Sewage (Non-PLC): Sewerage Systems Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Unknown Sewage Note: Chatburn Brook Incident Date: 7th May 1991 Incident Reference: 91340034 Catchment Area: Ribble - Non-Tidal Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13NW (W)	56	2	376900 444100
5	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Oils - Unknown Note: Chatburn Brook Incident Date: 8th September 1993 Incident Reference: 93340079 Catchment Area: Ribble - Non-Tidal Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A13NW (NW)	249	2	376800 444300
6	Pollution Incidents to Controlled Waters Property Type: Boats/Ships Location: Lancashire Authority: Environment Agency, North West Region Pollutant: Unknown Note: None Incident Date: 6th June 1994 Incident Reference: 94340082 Catchment Area: Ribble - Non-Tidal Receiving Water: Canal Cause of Incident: Other Incident/Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13NW (NW)	276	2	376700 444195

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
6	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Oils - Unknown Note: Chatburn Brook Incident Date: 29th November 1992 Incident Reference: 92340111 Catchment Area: Ribble - Non-Tidal Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13NW (NW)	276	2	376700 444200
7	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Oils - Unknown Note: Chatburn Brook Incident Date: 5th June 1995 Incident Reference: 95340063 Catchment Area: Ribble - Non-Tidal Receiving Water: Not Given Cause of Incident: Other Incident/Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13NW (NW)	323	2	376700 444295
7	Pollution Incidents to Controlled Waters Property Type: Private Sewage (Non-PLC): Sewerage Systems Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Unknown Sewage Note: Chatburn Brook Incident Date: 7th June 1993 Incident Reference: 93340043 Catchment Area: Ribble - Non-Tidal Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A13NW (NW)	326	2	376700 444300
8	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Oils - Unknown Note: Chatburn Brook Incident Date: 2nd February 1993 Incident Reference: 93340007 Catchment Area: Ribble - Non-Tidal Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A12NE (NW)	413	2	376600 444300
9	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Miscellaneous - Unknown Note: Chatburn Brook Incident Date: 30th August 1991 Incident Reference: 91340084 Catchment Area: Ribble - Non-Tidal Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A18SW (NW)	467	2	376700 444500
	River Quality Name: Chatburn (Heys) Bk GQA Grade: River Quality B Reach: Qsl Downham To Railway Bridge Estimated Distance (km): 1.6 Flow Rate: Flow less than 0.31 cumecs Flow Type: River Year: 2000	A13SW (S)	0	2	376967 444076

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	River Quality Name: Chatburn (Heys) Bk GQA Grade: River Quality B Reach: Railway Bridge To Ribbie Estimated Distance (km): .9 Flow Rate: Flow less than 0.31 cumecs Flow Type: River Year: 2000	A13NW (W)	77	2	376880 444105
10	Water Abstractions Operator: Smith & Nephew Textiles Ltd. Licence Number: 2671309005 Permit Version: Not Supplied Location: Lodge Fed By Chatburn Brook, Chatburn, CLITHEROE, Lancashire Authority: Environment Agency, North West Region Abstraction: Manufacturing Abstraction Type: Not Supplied Source: River Daily Rate (m3): 20 Yearly Rate (m3): 5455 Details: Licence Status: Revoked Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A13NW (NW)	189	2	376800 444200
	Groundwater Vulnerability Soil Classification: Soils of Low Leaching Potential - Soils in which pollutants are unlikely to penetrate the soil layer because water movement is largely horizontal or they have large ability to attenuate diffuse pollutants. Lateral flow from these soils contribute to groundwater recharge elsewhere in the catchment Map Sheet: Sheet 10 Central Lancashire Scale: 1:100,000	A13SW (S)	0	2	376869 444082
	Drift Deposits None				
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A13SW (S)	0	3	376969 444082
	Superficial Aquifer Designations No Data Available				
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SW (W)	0	2	376965 444080
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SW (W)	0	2	376965 444080
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NW (NW)	240	2	376755 444225
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				
	Flood Defences None				
11	Detailed River Network Lines River Type: Primary River River Name: Heys Brook Hydrographic Area: D011 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Flood Risk Management Indicative/Statutory Main River Management Status: Water Course: CHATBURN BROOK/HEYES BROOK Name: Water Course: HEBR Reference:	A13SE (S)	3	2	376977 444051

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
12	Detailed River Network Lines River Type: Tertiary River River Name: Not Supplied Hydrographic Area: D011 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A13NW (NW)	326	2	376771 444377
13	Detailed River Network Lines River Type: Extended Culvert (greater than 50m) River Name: Not Supplied Hydrographic Area: D011 River Flow Type: Primary Flow Path River Surface Level: Below Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A18SW (NW)	389	2	376790 444464
14	Detailed River Network Lines River Type: Tertiary River River Name: Not Supplied Hydrographic Area: D011 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A18SW (N)	410	2	376881 444519
15	Detailed River Network Lines River Type: Extended Culvert (greater than 50m) River Name: Not Supplied Hydrographic Area: D011 River Flow Type: Primary Flow Path River Surface Level: Below Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A18SW (N)	416	2	376853 444519
16	Detailed River Network Lines River Type: Tertiary River River Name: Not Supplied Hydrographic Area: D011 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A18SW (N)	443	2	376799 444528
17	Detailed River Network Lines River Type: Primary River River Name: Not Supplied Hydrographic Area: D011 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Flood Risk Management Indicative/Statutory Main River Management Status: Water Course: CHATBURN BROOK/HEYES BROOK Name: Water Course: HEBR Reference:	A18SW (NW)	495	2	376736 444555

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
18	Detailed River Network Offline Drainage River Type: Tertiary River Hydrographic Area: D011	A14NW (E)	371	2	377357 444123
19	Detailed River Network Offline Drainage River Type: Tertiary River Hydrographic Area: D011	A14NW (NE)	465	2	377412 444283
20	Detailed River Network Offline Drainage River Type: Tertiary River Hydrographic Area: D011	A19SW (NE)	483	2	377332 444443

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
21	BGS Recorded Landfill Sites Site Name: Chatburn Old Road Location: Chatburn, CLITHEROE, Lancashire Authority: British Geological Survey, National Geoscience Information Service Ground Water: Information not available Surface Water: Information not available Geology: Limestone Quarry located on anticline Positional Accuracy: Positioned by the supplier Boundary Accuracy: Derived	A13NW (W)	317	-	376637 444085
22	Historical Landfill Sites Licence Holder: Not Supplied Location: Bridge Road, Chatburn, Clitheroe, Lancashire Name: E Jackson Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD07089 First Input Date: Not Supplied Last Input Date: Not Supplied Specified Waste Type: Deposited Waste Included Inert Waste EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 2300/0179 BGS Ref: Not Supplied Other Ref: K1/03/027, LA 079111	A13SE (E)	96	2	377081 444040
23	Historical Landfill Sites Licence Holder: Ribble Valley Borough Council Location: Off Chatburn Old Road, Clitheroe, Lancashire Name: Chatburn Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD07088 First Input Date: 1st November 1953 Last Input Date: 31st December 1978 Specified Waste Type: Deposited Waste Included Inert, Industrial, Commercial and Household Waste, and Liquid Sludge EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 2300/0160 BGS Ref: 267 Other Ref: K1/03/005, Resolution 200/52	A13NW (W)	317	2	376638 444091
	Local Authority Landfill Coverage Name: Ribble Valley Borough Council - Had landfill data but passed it to the relevant environment agency		0	5	376969 444082
	Local Authority Landfill Coverage Name: Lancashire County Council - Had landfill data but passed it to the relevant environment agency		0	6	376969 444082
24	Registered Landfill Sites Licence Holder: Lancs C.C. Licence Reference: SR 24 Site Location: Clitheroe Old Road, Chatburn, Clitheroe, Lancashire Licence Easting: 376550 Licence Northing: 444100 Operator Location: PO Box 9, Guildhouse, Cross Street, PRESTON, Lancashire, PR1 8RD Authority: Environment Agency - North West Region, Central Area Site Category: Landfill Max Input Rate: Undefined Waste Source: No known restriction on source of waste Restrictions: Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 1st August 1980 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste: Construction And Demolition Wastes Incinerator Residues Pulverised Fuel Ash Sewage Environment Agency Waste N.O.S must give specific authorisation for this waste to be acceptedWaste requires prior approval	A12NE (W)	405	2	376550 444100

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Bowland High Group And Craven Group (Undifferentiated)	A13SW (S)	0	3	376969 444082
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: 1.8 - 2.2 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A13SW (S)	0	3	376969 444082
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: 1.8 - 2.2 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A13SE (E)	10	3	377000 444082
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: 1.8 - 2.2 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A13SW (S)	49	3	376969 444000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: 1.8 - 2.2 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A13SE (S)	58	3	377000 444000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SE (SE)	192	3	377094 443900
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SE (S)	208	3	377000 443845

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A13SE (S)	255	3	377064 443814
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A13SE (S)	261	3	377000 443792
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A13NW (NW)	276	3	376764 444304
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A13NW (NW)	281	3	376746 444287
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A13NW (NW)	319	3	376696 444282
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A18SE (N)	361	3	377115 444451

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A14SW (SE)	369	3	377317 443901
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A13SE (SE)	370	3	377203 443760
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A8NE (S)	394	3	377127 443689
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: 1.8 - 2.2 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A8NE (SE)	396	3	377159 443702
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: 1.8 - 2.2 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A8NE (SE)	396	3	377195 443722
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A8NE (S)	413	3	377000 443639

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A18SW (N)	462	3	376857 444567
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 40 - 60 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A18SW (NW)	473	3	376766 444546
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 15 - 30 mg/kg	A18SE (N)	475	3	377000 444593
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: 1.8 - 2.2 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A14SW (E)	489	3	377484 443952
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <150 mg/kg Nickel Concentration: 30 - 45 mg/kg	A18SW (NW)	492	3	376699 444529
25	BGS Recorded Mineral Sites Site Name: Chatburn Location: Chatburn, Clitheroe, Lancashire Source: British Geological Survey, National Geoscience Information Service Reference: 92327 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Unknown Operator Periodic Type: Carboniferous Geology: Chatburn Limestone Formation Commodity: Limestone Positional Accuracy: Located by supplier to within 10m	A12NE (W)	398	3	376569 444185
	BGS Measured Urban Soil Chemistry No data available				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Urban Soil Chemistry Averages No data available				
	Coal Mining Affected Areas In an area that might not be affected by coal mining				
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	A13SW (S)	0	3	376969 444082
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (S)	0	3	376969 444082
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (S)	0	3	376969 444082
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (S)	0	3	376969 444082
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	192	3	377094 443900
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (S)	0	3	376969 444082
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (S)	0	3	376969 444082
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	192	3	377094 443900
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (S)	0	3	376969 444082
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	192	3	377094 443900
	Radon Potential - Radon Protection Measures Protection Measure: Basic radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A13SW (S)	0	3	376969 444082
	Radon Potential - Radon Affected Areas Affected Area: The property is in an intermediate probability radon area, as between 5 and 10% of homes are above the action level Source: British Geological Survey, National Geoscience Information Service	A13SW (S)	0	3	376969 444082

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
26	Contemporary Trade Directory Entries Name: Chatburn Village Motor Co Location: Sawley Rd, Chatburn, Clitheroe, Lancashire, BB7 4AS Classification: Car Dealers - Used Status: Active Positional Accuracy: Manually positioned to the road within the address or location	A13NW (N)	63	-	376970 444182
27	Fuel Station Entries Name: P Harrison And Son Ltd Location: Sawley Road, Chatburn, CLITHEROE, Lancashire, BB7 4AS Brand: Unbranded Premises Type: Not Applicable Status: Obsolete Positional Accuracy: Automatically positioned to the address	A13NE (N)	95	-	377008 444207

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
28	Areas of Outstanding Natural Beauty Name: Forest Of Bowland Multiple Areas: Y Total Area (m2): 805733322.62 Designation Date: 28th February 1964 Source: Natural England	A14SW (E)	344	4	377321 443980
29	Sites of Special Scientific Interest Name: Clitheroe Knoll Reefs Multiple Areas: Y Total Area (m2): 1177518 Source: Natural England Reference: 1000894 Designation Details: Geological Conservation Review Designation Date: 29th January 1987 Date Type: Notified	A14SW (E)	330	4	377319 444069








Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices Ribble Valley Borough Council - Environmental Health Department	October 2014	Annual Rolling Update
Discharge Consents Environment Agency - North West Region	April 2015	Quarterly
Enforcement and Prohibition Notices Environment Agency - North West Region	March 2013	As notified
Integrated Pollution Controls Environment Agency - North West Region	October 2008	Not Applicable
Integrated Pollution Prevention And Control Environment Agency - North West Region	April 2015	Quarterly
Local Authority Integrated Pollution Prevention And Control Ribble Valley Borough Council - Environmental Health Department	June 2014	Annual Rolling Update
Local Authority Pollution Prevention and Controls Ribble Valley Borough Council - Environmental Health Department	June 2014	Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements Ribble Valley Borough Council - Environmental Health Department	June 2014	Annual Rolling Update
Nearest Surface Water Feature Ordnance Survey	July 2012	Quarterly
Pollution Incidents to Controlled Waters Environment Agency - North West Region	January 2000	Not Applicable
Prosecutions Relating to Authorised Processes Environment Agency - North West Region	March 2013	As notified
Prosecutions Relating to Controlled Waters Environment Agency - North West Region	March 2013	As notified
River Quality Environment Agency - Head Office	November 2001	Not Applicable
River Quality Biology Sampling Points Environment Agency - Head Office	July 2012	Annually
River Quality Chemistry Sampling Points Environment Agency - Head Office	July 2012	Annually
Substantiated Pollution Incident Register Environment Agency - North West Region - Central Area Environment Agency - North West Region - North Area	April 2015 April 2015	Quarterly Quarterly
Water Abstractions Environment Agency - North West Region	April 2015	Quarterly
Water Industry Act Referrals Environment Agency - North West Region	April 2015	Quarterly
Groundwater Vulnerability Environment Agency - Head Office	April 2015	Not Applicable
Drift Deposits Environment Agency - Head Office	January 1999	Not Applicable
Bedrock Aquifer Designations British Geological Survey - National Geoscience Information Service	October 2012	As notified
Superficial Aquifer Designations British Geological Survey - National Geoscience Information Service	January 2015	As notified
Source Protection Zones Environment Agency - Head Office	April 2015	Quarterly
Extreme Flooding from Rivers or Sea without Defences Environment Agency - Head Office	May 2015	Quarterly
Flooding from Rivers or Sea without Defences Environment Agency - Head Office	May 2015	Quarterly

Agency & Hydrological	Version	Update Cycle
Areas Benefiting from Flood Defences Environment Agency - Head Office	May 2015	Quarterly
Flood Water Storage Areas Environment Agency - Head Office	May 2015	Quarterly
Flood Defences Environment Agency - Head Office	May 2015	Quarterly
Detalled River Network Lines Environment Agency - Head Office	March 2012	Annually
Detalled River Network Offline Drainage Environment Agency - Head Office	March 2012	Annually
Waste	Version	Update Cycle
BGS Recorded Landfill Sites British Geological Survey - National Geoscience Information Service	June 1996	Not Applicable
Historical Landfill Sites Environment Agency - North West Region - Central Area Environment Agency - North West Region - North Area	February 2015 February 2015	Quarterly Quarterly
Integrated Pollution Control Registered Waste Sites Environment Agency - North West Region	October 2008	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries) Environment Agency - North West Region - Central Area Environment Agency - North West Region - North Area	August 2014 August 2014	Quarterly Quarterly
Licensed Waste Management Facilities (Locations) Environment Agency - North West Region - Central Area Environment Agency - North West Region - North Area	April 2015 April 2015	Quarterly Quarterly
Local Authority Landfill Coverage Lancashire County Council - Waste Management Group Ribble Valley Borough Council - Environmental Health Department	May 2000 May 2000	Not Applicable Not Applicable
Local Authority Recorded Landfill Sites Lancashire County Council - Waste Management Group Ribble Valley Borough Council - Environmental Health Department	May 2000 May 2000	Not Applicable Not Applicable
Registered Landfill Sites Environment Agency - North West Region - Central Area Environment Agency - North West Region - North Area	March 2003 March 2003	Not Applicable Not Applicable
Registered Waste Transfer Sites Environment Agency - North West Region - Central Area Environment Agency - North West Region - North Area	March 2003 March 2003	Not Applicable Not Applicable
Registered Waste Treatment or Disposal Sites Environment Agency - North West Region - Central Area Environment Agency - North West Region - North Area	March 2003 March 2003	Not Applicable Not Applicable

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

Sensitive Land Use	Version	Update Cycle
Areas of Adopted Green Belt Ribble Valley Borough Council	May 2015	As notified
Areas of Unadopted Green Belt Ribble Valley Borough Council	May 2015	As notified
Areas of Outstanding Natural Beauty Natural England	February 2015	Bi-Annually
Environmentally Sensitive Areas Natural England	August 2014	Annually
Forest Parks Forestry Commission	April 1997	Not Applicable
Local Nature Reserves Natural England	April 2015	Bi-Annually
Marine Nature Reserves Natural England	July 2013	Bi-Annually
National Nature Reserves Natural England	March 2015	Bi-Annually
National Parks Natural England	February 2015	Bi-Annually
Nitrate Sensitive Areas Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	February 2012	Not Applicable
Nitrate Vulnerable Zones Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	July 2014	Annually
Ramsar Sites Natural England	March 2014	Bi-Annually
Sites of Special Scientific Interest Natural England	April 2015	Bi-Annually
Special Areas of Conservation Natural England	March 2014	Bi-Annually
Special Protection Areas Natural England	April 2015	Bi-Annually

A selection of organisations who provide data within this report

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

Contact	Name and Address	Contact Details
2	Environment Agency - National Customer Contact Centre (NCCC) PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 08708 506 506 Email: enquiries@environment-agency.gov.uk
3	British Geological Survey - Enquiry Service British Geological Survey, Kingsley Dunham Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
4	Natural England Suite D, Unex House, Bourges Boulevard, Peterborough, Cambridgeshire, PE1 1NG	Telephone: 0845 600 3078 Email: enquiries@naturalengland.org.uk Website: www.naturalengland.org.uk
5	Ribble Valley Borough Council - Environmental Health Department Council Offices, Church Walk, Clitheroe, Lancashire, BB7 2RA	Telephone: 01200 425111 Fax: 01200 26339 Website: www.ribblevalley.gov.uk
6	Lancashire County Council - Waste Management Group Environment Directorate, Guild House, Cross Street, Preston, Lancashire, PR1 8RD	Website: www.lancashire.gov.uk
-	Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@phe.gov.uk Website: www.ukradon.org
-	Landmark Information Group Limited Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk

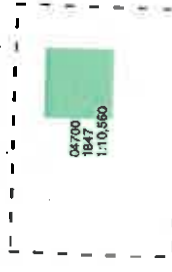
Please note that the Environment Agency / Natural Resources Wales / SEPA have a charging policy in place for enquiries.

Lancashire And Furness Published 1847

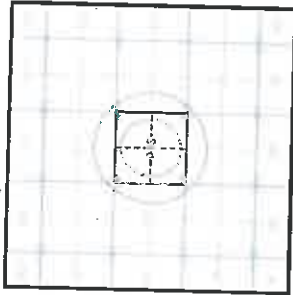
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for Essex, Wales and Scotland in the 1840's. In 1854 the 1:25,000 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The 1:25,000 scale maps were often some years later than the surveyed data. In 1938, all OS maps were based on the Cassini Projection, with subsequent surveys of a single county or group of counties, giving rise to significant inaccuracies in adjoining areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unaltered - with all military camps and other strategic sites removed. These maps were initially overlaid with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The surveying process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number: 68227055_1_1
 Customer Ref: 887 4AU
 National Grid Reference: 378670, 444080
 Slices: A
 Site Area (Ha): 0.14
 Search Buffer (m): 500

Site Details

9 Downham Road, Chetburn, CLITHEROE, Lancashire, BB7 4AU



Tel: 0844 844 8882
 Fax: 0844 844 8881
 Web: www.landmark.co.uk

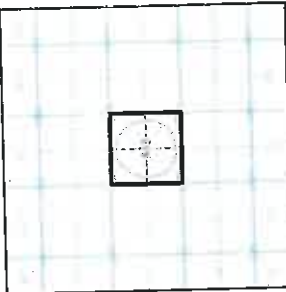


The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1864 the 1:2,500 scale was adopted for mapping urban areas and by 1886 it covered the whole of what were considered to be the cultivated lands of Great Britain. The published data given below is often more up to date than the surveyed data. Before 1953, all OS maps were projected on the Cassini Projection, with independent surveys of a high country or group of countries, giving rise to significant inaccuracies in coupling areas.

Map Name(s) and Date(s)

047 07
1888
1:2,500

Historical Map - Segment A13



Order Details

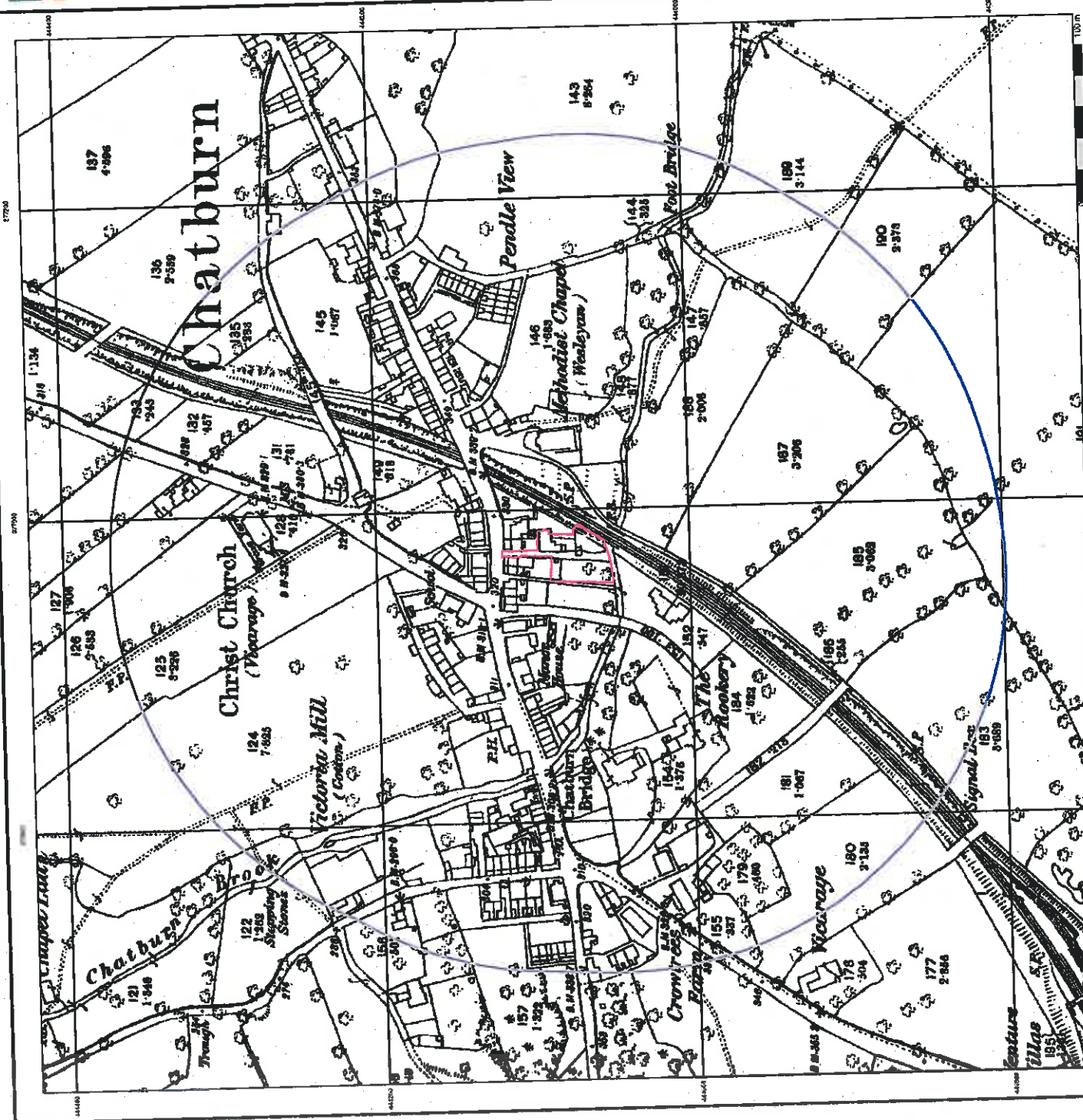
Order Number: 89227055_1_1
Customer Ref: BB7 4AU
National Grid Reference: 376970, 444080
Slice: A
Site Area (Ha): 0.14
Search Buffer (m): 250

Site Details

9 Downham Road, Chatburn, CLITHEROE, Lancashire, BB7 4AU



Tel: 0844 844 9852
Fax: 0844 844 9851
Web: www.envirocheck.co.uk

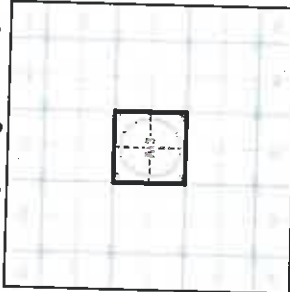


The historical maps shown were reproduced from maps predominantly held at the Ordnance Survey office in Southampton in the 1940's. In 1854 a 1:2,500 scale was adopted for mapping urban areas and by 1885 it covered the whole of Lancashire and Furness. The maps were surveyed by British soldiers and are considered to be the most accurate of Great Britain. The maps are shown below in order of the years they were surveyed. Before 1854 all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in adjoining areas.

Map Name(s) and Date(s)



Historical Map - Segment A13

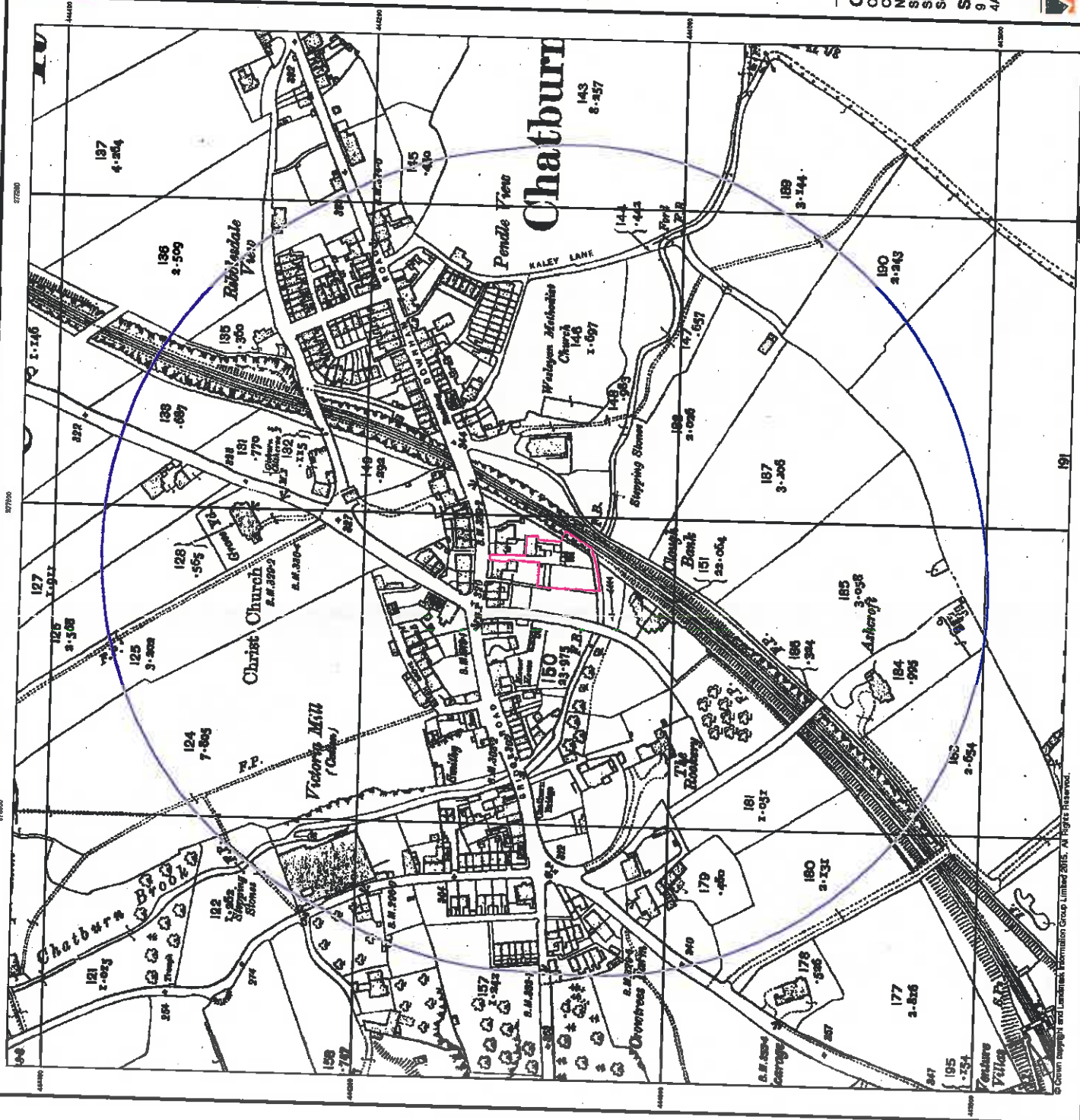


Order Details

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Customer Ref: B67 4AU
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Site Area (Ha): 0.14
Search Buffer (m): 250

Site Details

9 Downham Road, Chatburn, CLITHEROE, Lancashire, BB7 4AU

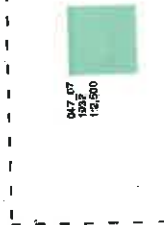


Lancashire And Furness
Published 1932

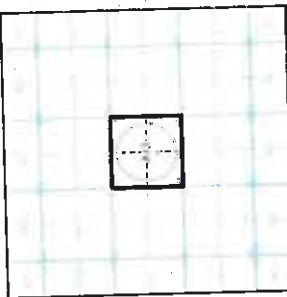
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840s. In 1854 the 1:2,500 scale was adopted for mapping urban areas and selected parts of Great Britain. The published data from OS were based on the Cassini projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

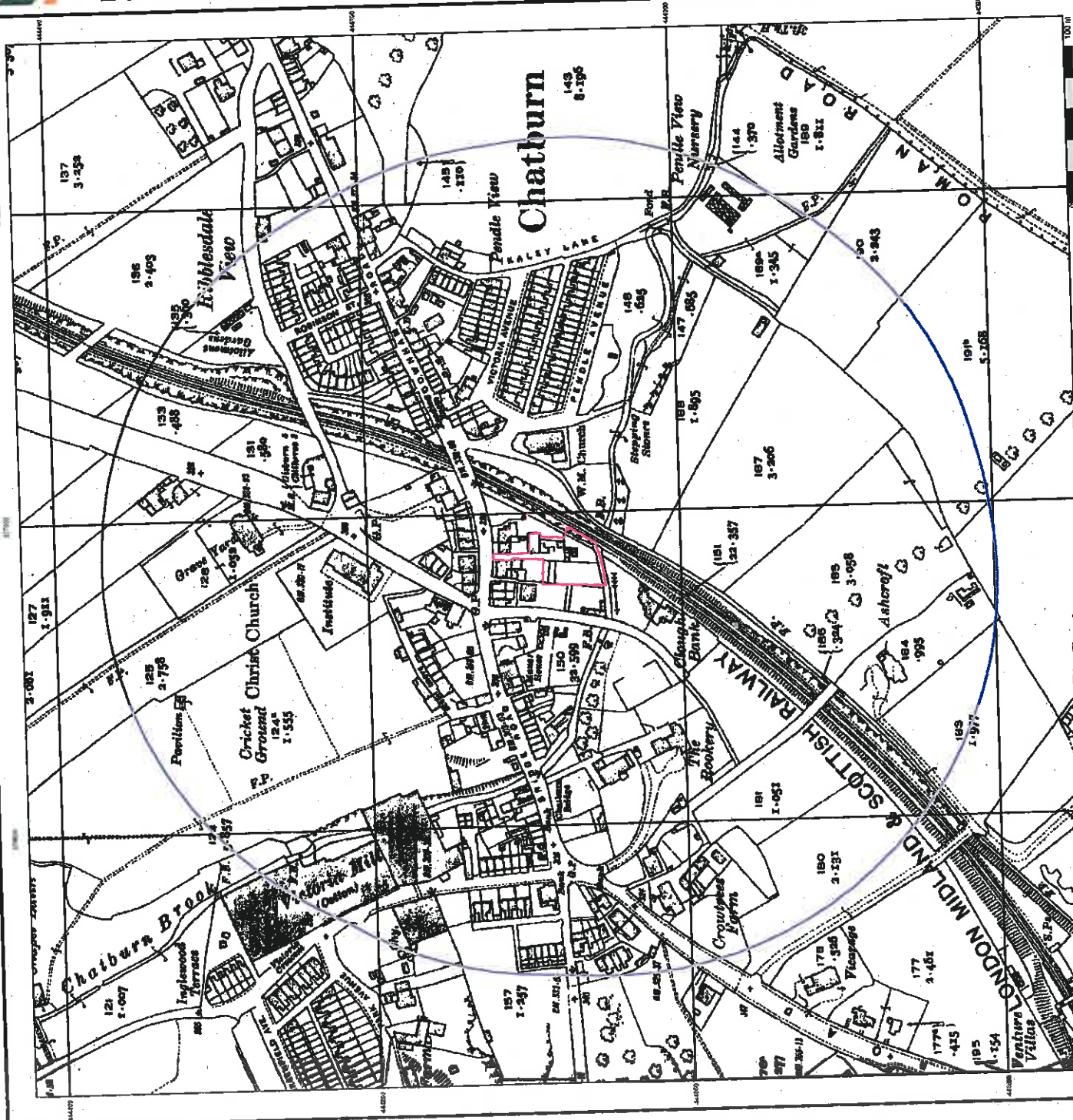
Order Number: 68227055_1_1
Customer Ref: BB7 4AU
National Grid Reference: 376970, 444080
Site: A
Site Area (Ha): 0.14
Search Buffer (m): 250

Site Details

9 Downham Road, Chatburn, CLITHEROE, Lancashire, BB7 4AU



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Fax: 0844 844 981
Web: www.landmark.co.uk



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Ordnance Survey Plan
Published 1973

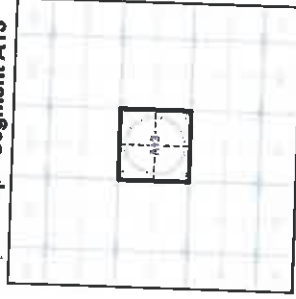
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in 1874. In 1884 the 1:2,500 scale was adopted for mapping urban areas and in 1890 it covered the whole of what were considered to be the cultivated lands of Great Britain. The published date given below is often some years later than the surveyed date. Before 1939, all OS maps were based on the Cassini projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)

OS7944	SD7744
1973	12,500
OS7943	SD7743
1973	12,500

Historical Map - Segment A13

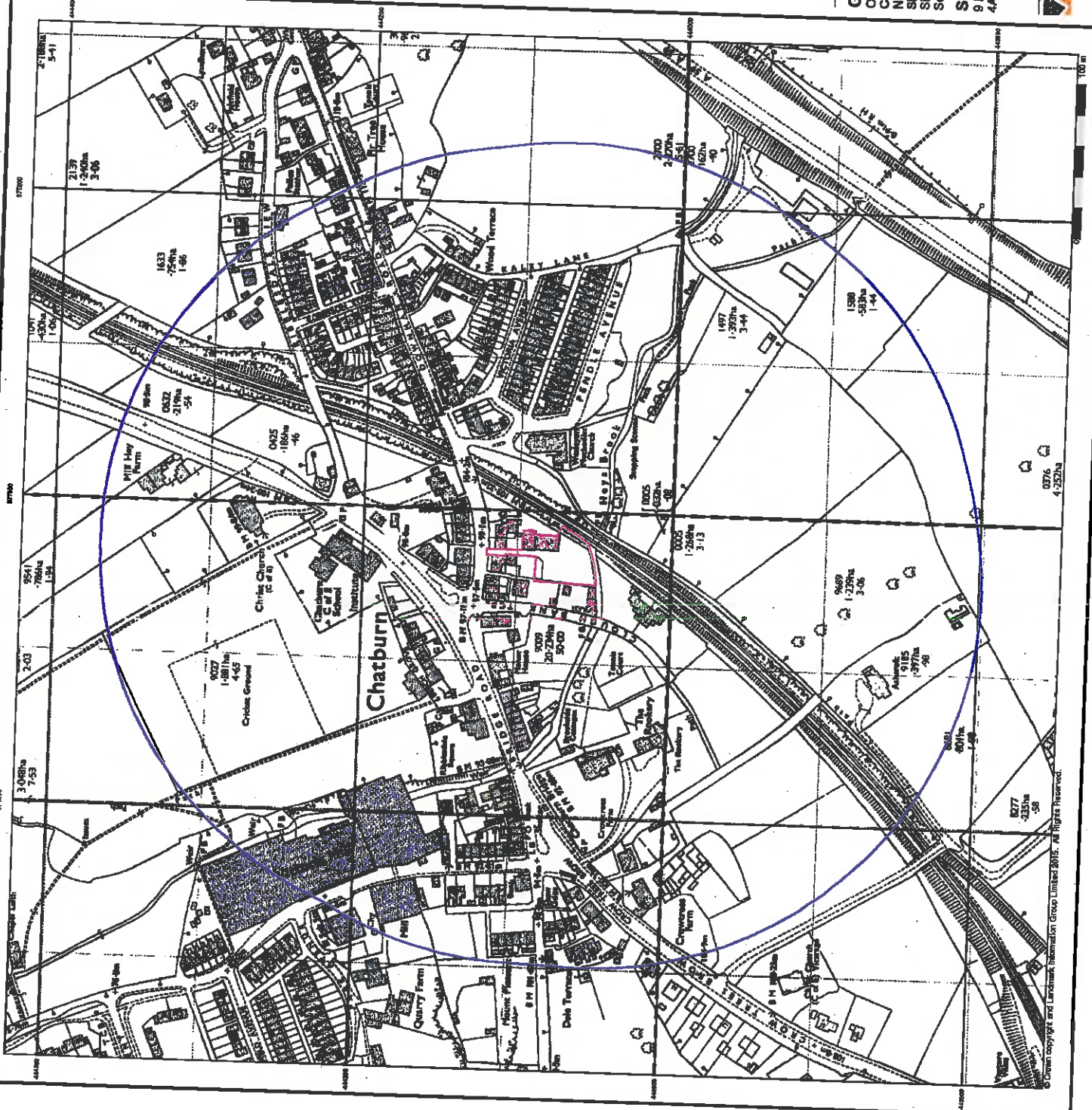


Order Details

Order Number: 6927055_1_1
Customer Ref: BB7 4AU
National Grid References: 376970, 444080
Site: A
Site Area (Ha): 0.14
Search Buffer (m): 250

Site Details

9 Downham Road, Chatburn, CLITHEROE, Lancashire, BB7 4AU



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Large-Scale National Grid Data Published 1994

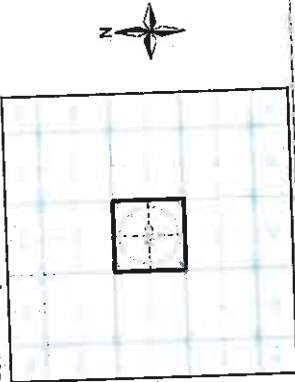
Source map scale - 1:2,500

'Large Scale National Grid Data' succeeded OS 1:25,000 (Ordnance Survey's 'Survey of Great Britain on Microfilm') in 1992, and continued to be produced until 1994. These maps were the forerunners of digital mapping and so include detailed information on houses and roads, but tend to show less topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)

SD7644	SD7744
1984	1984
1:2,500	1:2,500
SD7645	SD7745
1984	1984
1:2,500	1:2,500

Historical Map - Segment A13



Order Details

Order Number: 68227055_1_1
 Customer Ref: BB7 4AU
 National Grid References: 376970, 444080
 Slices: A
 Site Area (Ha): 0.14
 Search Buffer (m): 250

Site Details

9 Downham Road, Chatburn, CLITHEROE, Lancashire, BB7 4AU



Tel: 01494 444982
 Fax: 01494 444983
 Web: www.envirocheck.co.uk

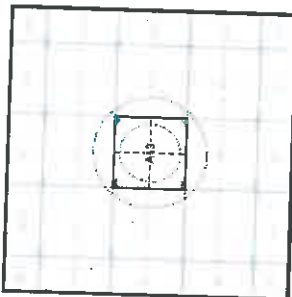


VectorMap Local (Vector) is Ordnance Survey's highest detailed topographic mapping product. These maps are produced from OS's VectorMap Local, a Great Britain street map at a nominal scale of 1:10,000, covering the whole of Great Britain. VectorMap Local is derived from large-scale information mapping OS scale (covering major towns) and large-scale information mapping at 1:1250 scale (covering rural areas), and 1:10,000 scale (mountain, moorland and river estuary areas).

Map Name(s) and Date(s)

- SD74NE
2015
Variable
- SD74SE
2015
Variable

Historical Map - Slice A

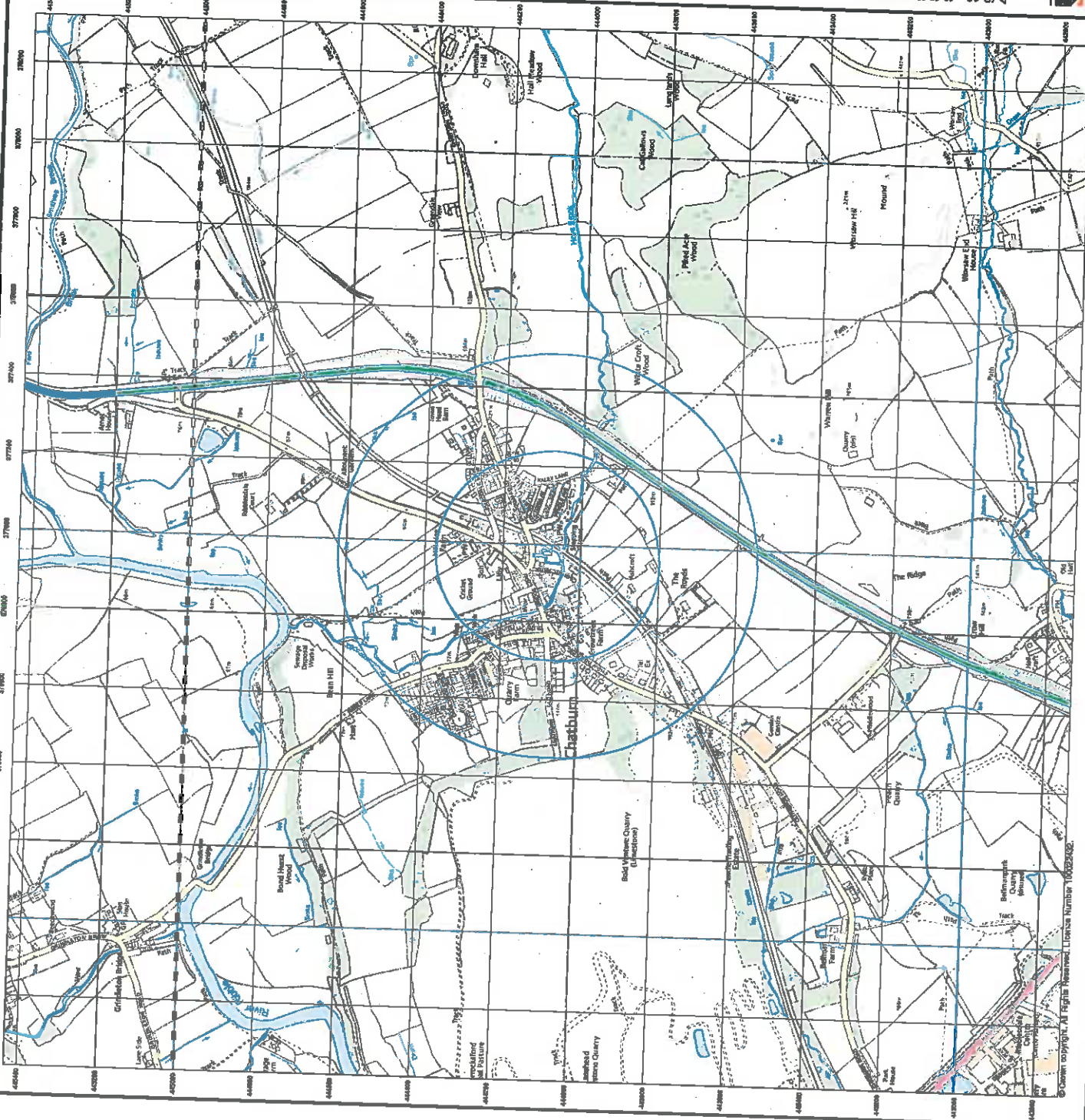


Order Details

Order Number: 6927056_L1
 Customer Ref: BB7 4AU
 National Grid Reference: 376970, 444080
 Slice: A
 Site Area (Ha): 0.14
 Search Buffer (m): 500

Site Details

9 Downham Road, Chatburn, CLITHEROE, Lancashire, BB7 4AU



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9 Downham Road, Chatburn
Clitheroe, BB7 4AV

Conceptual Model based on PRA

Not to scale 09/07/2015

WORMS EYE
52 Bank Parade
Burnley, BB11 1TS
01282 414 649

- contamination expected on site in made ground
- potential contaminants on site; heavy metals, asbestos, sulphate, TPHs, PAHs
- risk to householders likely from contamination
- site at risk of flooding
- risk of leaching to aquifer and brook
- basic radon protection required

