

# **Envirocheck**<sup>®</sup> LANDMARK INFORMATION GROUP\*

#### Historical Land Use Information (1:10,000)

#### General

🛆 Specified Site 🔿 Specified Buffer(s) 🕺 Bearing Reference Point 🛽 🛽 Map ID Several of Type at Location

## Potentially Contaminative Industrial Uses (Past Land Uses - Mining)

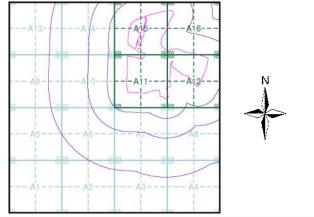
uses - wiining)	Point	Line	Polygon
Air Shafts	<b>♦</b>		
Disturbed Ground	•		
General Quarrying	•		
Heap, unknown constituents	•		EZ2
Mineral Railway	<b>♦</b>		
Mining and Quarrying General	•		
Mining of Coal & Lignite	<b>♦</b>		
Quarrying of Sand and Clay, Operation of Sand and Gravel Pits	<b>♦</b>		
Historical Land Use	Point	Line	Polygon
Potentially Infilled Land (Non-Water)	۲		
Potentially Infilled Land (Water)	•		
Former Marsh	⊮		

#### Mining Data

Potential Mining Area

BGS Recorded Mineral Site

#### Mining and Ground Stability - Slice A



#### **Order Details**

Order Number: Customer Ref: National Grid Reference: 355160, 424270 Slice: Site Area (Ha): Search Buffer (m):

289775268\_1\_1 WIE11556-107 А 61.13 1000

#### Site Details

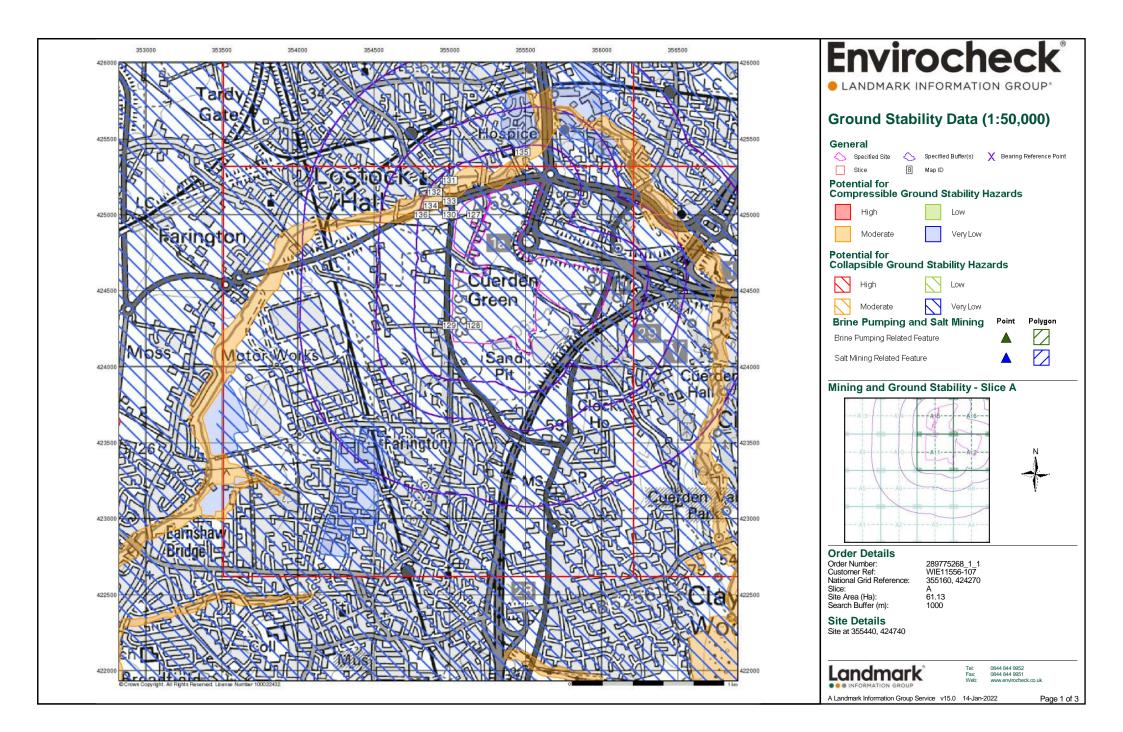
Site at 355440, 424740

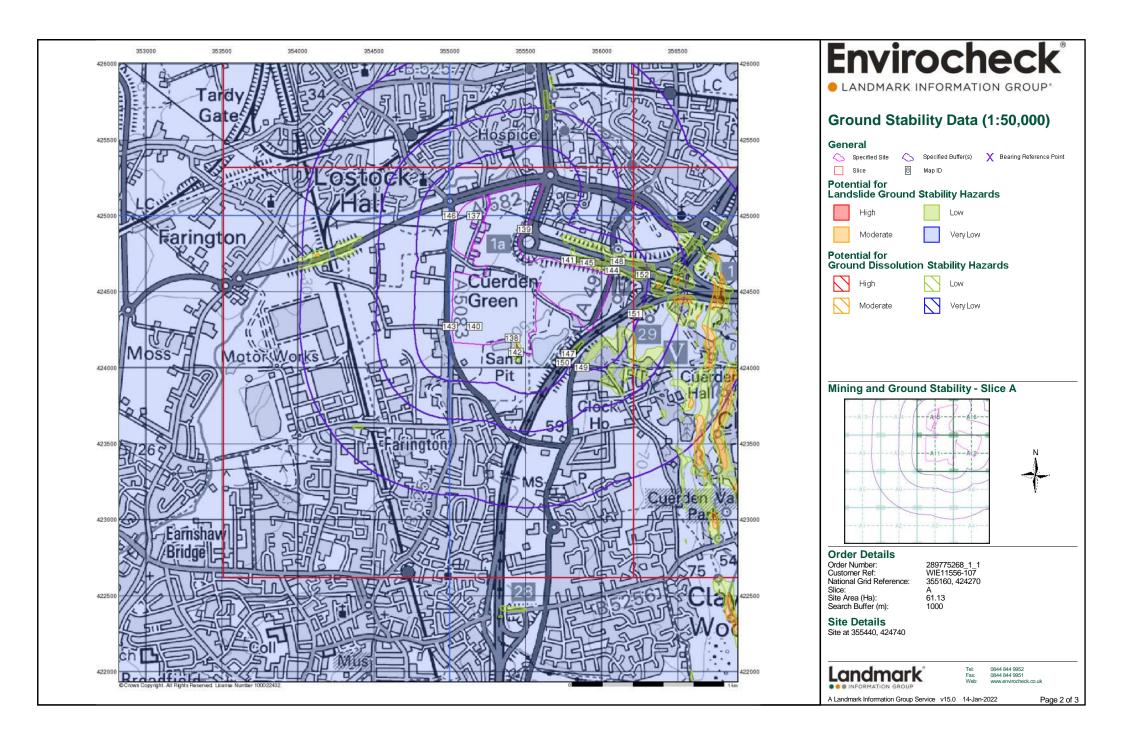


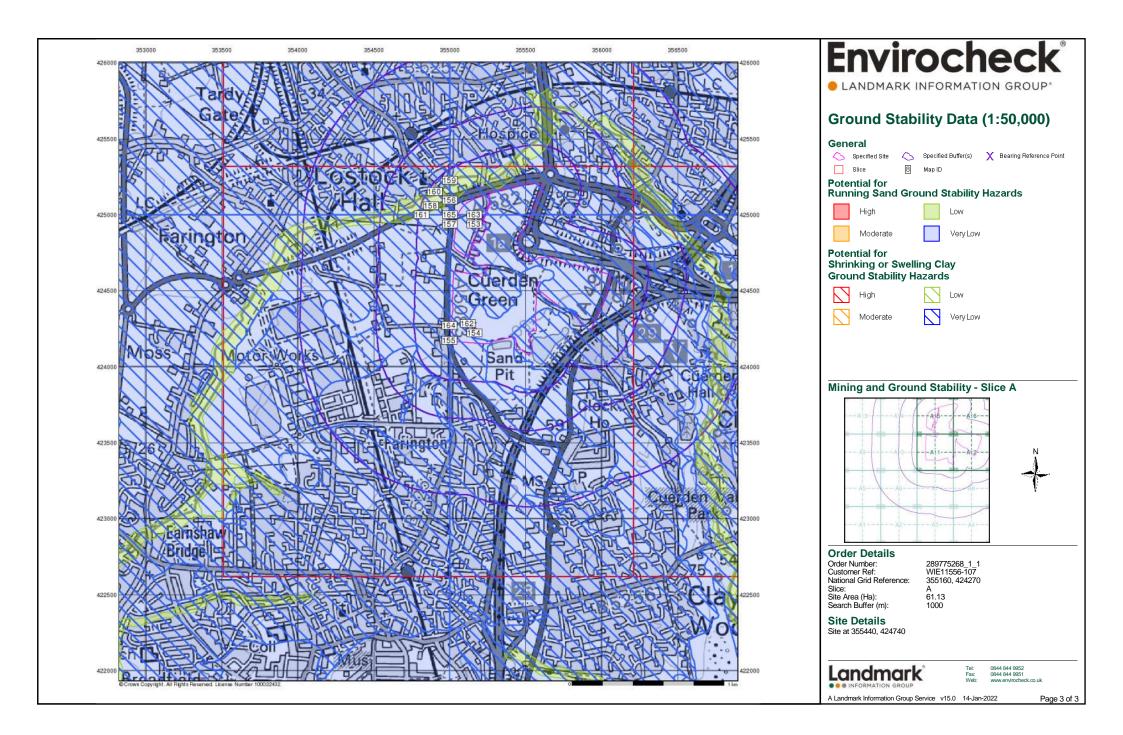


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## **Envirocheck**<sup>®</sup> Report:

## Mining and Ground Stability Datasheet

#### **Order Details:**

Order Number: 289775268\_1\_1

Customer Reference: WIE11556-107

National Grid Reference: 355160, 424270

Slice:

Site Area (Ha): 61.13

Search Buffer (m): 1000

Site Details: Site at 355440, 424740

#### **Client Details:**

Mr R Panter Waterman Infrastructure & Environment Ltd Waterman Group 5th Floor 1 Cornwall Street Birmingham West Midlands B3 2DX



# Envirocheck LANDMARK INFORMATION GROUP\*

#### Contents

Report Section and Details	Page Number
Summary	-
The Summary section provides an overview of the data contained within the report, detailing or the existence of a data set in relation to the buffer selected. For ease of reference, the report is broken down into 4 sections of data; Mining and Natural Use Information (1:2,500), Historical Land Use Information (1:10,000) and Ground Stability I	Cavities Data, Historical Land
Mining and Natural Cavities Data	1
The Mining and Natural Cavities Data section features data sets related to the existence of r hazards; and details of naturally formed cavities. Data sets within this section are not plotted, with the exception of BGS Recorded Mineral Sit which feature on the Historical Land Use Information (1:10,000) map.	с .
Historical Land Use Information (1:2,500)	4
The Historical Land Use Information (1:2,500) section contains data captured from analysis 1:1,250 and 1:2,500 scale historical Ordnance Survey mapping, identifying areas where, hist potentially contaminative. For the purpose of this Envirocheck module, only historical data relating to mining and grour	torically, the land uses were
plotted on the corresponding Historical Land Use Information (1:2,500) map. This section als Features data set, which details various man-made and man-used underground spaces obta Britannica society.	
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The brine subsidence data relating to the Driotwich area as provided in this report is derived from JPB studies and physical monitoring undertaken annually over more than 35 years. For more detailed interpretation contact enquires@jpb.co.uk. JPB retain the copyright and intellectual rights to this data and accept no liability for any loss or damage, including in direct or consequential loss, arising from the use of this data.

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#### Report Version v53.0

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## Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000n
Mining and Natural Cavities Data					
BGS Recorded Mineral Sites	pg 1		10	1	1
Coal Mining Affected Areas			n/a	n/a	n/a
Man Made Mining Cavities					
Mining Instability			n/a	n/a	n/a
Natural Cavities					
Non Coal Mining Areas of Great Britain				n/a	n/a
Potential Mining Areas					
Historical Land Use Information (1:2,500)					
Extractive Industries or Potential Excavations from 1855-1909 (100m)				n/a	n/a
Extractive Industries or Potential Excavations from 1893-1915 (100m)				n/a	n/a
Extractive Industries or Potential Excavations from 1906-1937 (100m)				n/a	n/a
Extractive Industries or Potential Excavations from 1924-1949 (100m)				n/a	n/a
Extractive Industries or Potential Excavations from 1950-1980 (100m)	pg 4	13	8	n/a	n/a
Subterranean Features (100m)				n/a	n/a
Historical Land Use Information (1:10,000)					
Air Shafts					
Disturbed Ground					
General Quarrying					
Heap, unknown constituents					
Mineral Railway					
Mining & quarrying general					
Mining of coal & lignite					
Quarrying of sand & clay, operation of sand & gravel pits	pg 6	1	4	1	1
Former Marshes	pg 6		1		
Potentially Infilled Land (Non-Water)	pg 6	1	1	1	1
Potentially Infilled Land (Water)	pg 6	7	17	22	35
Ground Stability Data (1:50,000)					
CBSCB Compensation District			n/a	n/a	n/a
Brine Pumping Related Features					
Brine Subsidence Solution Area					
Potential for Collapsible Ground Stability Hazards	pg 11	Yes	Yes	n/a	n/a
Potential for Compressible Ground Stability Hazards	pg 11	Yes	Yes	n/a	n/a
Potential for Ground Dissolution Stability Hazards	pg 12	Yes	Yes	n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 12	Yes	Yes	n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 12	Yes	Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 13	Yes	Yes	n/a	n/a
Salt Mining Related Features					

Order Number: 289775268\_1\_1 Date: 14-Jan-2022



Report Version v53.0

Summary

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## **Mining and Natural Cavities Data**

Map ID	Details		Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	BGS Recorded Mine Site Name:	eral Sites Cuerden Hall Sand Pit	A12NW	23	1	355745
	Location: Source: Reference: Type: <b>Status:</b> Operator: Operator Location: Periodic Type: Geology: Commodity:	Farington, Leyland, Lancashire British Geological Survey, National Geoscience Information Service 93402 Opencast <b>Ceased</b> Unknown Operator Not Supplied Quaternary, Devensian Till, Devensian Sand Located by supplier to within 10m	(E)			424364
	BGS Recorded Mine	eral Sites				
2	Site Name: Location: Source: Reference: Type: <b>Status:</b> Operator: Operator Location: Periodic Type: Geology: Commodity: Positional Accuracy:	Lydiate Lane Quarry Cuerden, Leyland, Preston, Lancashire British Geological Survey, National Geoscience Information Service 226998 Opencast <b>Dormant</b> J. A. Jackson Contractors (Preston) Ltd. Not Supplied Quaternary Glaciofluvial Deposits, Devensian Sand and Gravel Located by supplier to within 10m	A11SE (SE)	34	1	355497 424050
	BGS Recorded Mine	eral Sites				
3	Site Name: Location: Source: Reference: Type: <b>Status:</b> Operator: Operator Location: Periodic Type: Geology: Commodity: Destilioned Assurements	Lydiate Lane Quarry Cuerden, Leyland, Preston, Lancashire British Geological Survey, National Geoscience Information Service 227000 Opencast <b>Dormant</b> J. A. Jackson Contractors (Preston) Ltd. Not Supplied Quaternary Glaciofluvial Deposits, Devensian Sand and Gravel	A12SW (E)	51	1	355595 424105
		Located by supplier to within 10m				
4	-	Lydiate Lane Quarry Cuerden, Leyland, Preston, Lancashire British Geological Survey, National Geoscience Information Service 226996 Opencast <b>Dormant</b> J. A. Jackson Contractors (Preston) Ltd. Not Supplied Quaternary Glaciofluvial Deposits, Devensian Sand and Gravel Located by supplier to within 10m	A11SE (SE)	64	1	355385 424080
	BGS Recorded Mine					
5	Site Name: Location: Source: Reference: Type: <b>Status:</b> Operator: Operator: Operator Location: Periodic Type: Geology: Commodity: Positional Accuracy:	Lydiate Lane Quarry Cuerden, Leyland, Preston, Lancashire British Geological Survey, National Geoscience Information Service 226995 Opencast <b>Dormant</b> J. A. Jackson Contractors (Preston) Ltd. Not Supplied Quaternary Glaciofluvial Deposits, Devensian Sand and Gravel Located by supplier to within 10m	A11SE (SE)	83	1	355275 424070
	BGS Recorded Mine					
6	Site Name: Location: Source: Reference: Type: <b>Status:</b> Operator: Operator Location: Periodic Type: Geology: Commodity: Positional Accuracy:	Lydiate Lane Quarry Cuerden, Leyland, Preston, Lancashire British Geological Survey, National Geoscience Information Service 227001 Opencast <b>Active</b> J. A. Jackson Contractors (Preston) Ltd. Not Supplied Quaternary Glaciofluvial Deposits, Devensian Sand and Gravel Located by supplier to within 10m	A12SW (E)	151	1	355695 424080

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## **Mining and Natural Cavities Data**

Map ID	. Details		Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
7	BGS Recorded Mine Site Name:	Lydiate Lane Quarry	A7NE	152	1	355490
	Location: Source: Reference: Type: <b>Status:</b> Operator: Operator Location: Periodic Type: Geology: Commodity: Positional Accuracy:	Cuerden, Leyland, Preston, Lancashire British Geological Survey, National Geoscience Information Service 226997 Opencast <b>Dormant</b> J. A. Jackson Contractors (Preston) Ltd. Not Supplied Quaternary Glaciofluvial Deposits, Devensian Sand and Gravel Located by supplier to within 10m	(SE)			423930
	BGS Recorded Mine	eral Sites				
8	Site Name: Location: Source: Reference: Type: <b>Status:</b> Operator: Operator: Operator Location: Periodic Type: Geology: Commodity: Positional Accuracy:	Lydiate Lane Quarry Cuerden, Leyland, Preston, Lancashire British Geological Survey, National Geoscience Information Service 226999 Opencast <b>Dormant</b> J. A. Jackson Contractors (Preston) Ltd. Not Supplied Quaternary Glaciofluvial Deposits, Devensian Sand and Gravel Located by supplier to within 10m	A8NW (SE)	161	1	355600 423938
	BGS Recorded Mine	eral Sites				
9	Site Name: Location: Source: Reference: Type: <b>Status:</b> Operator: Operator: Operator Location: Periodic Type: Geology: Commodity:	Lydiate Lane Quarry Cuerden, Leyland, Preston, Lancashire British Geological Survey, National Geoscience Information Service 2633 Opencast <b>Dormant</b> J. A. Jackson Contractors (Preston) Ltd. Not Supplied Quaternary Glaciofluvial Deposits, Devensian Sand and Gravel	A7NE (SE)	201	1	355365 423925
		Located by supplier to within 10m				
10	BGS Recorded Mine Site Name: Location: Source: Reference: Type: Status: Operator: Operator: Operator: Operator: Deriodic Type: Geology: Commodity: Positional Accuracy:	eral Sites Lydiate Lane Quarry Cuerden, Leyland, Preston, Lancashire British Geological Survey, National Geoscience Information Service 226994 Opencast <b>Dormant</b> J. A. Jackson Contractors (Preston) Ltd. Not Supplied Quaternary Glaciofluvial Deposits, Devensian Sand and Gravel Located by supplier to within 10m	A7NE (S)	207	1	355260 423945
	BGS Recorded Mine	eral Sites				
11	Site Name: Location: Source: Reference: Type: <b>Status:</b> Operator: Operator: Operator Location: Periodic Type: Geology: Commodity: Positional Accuracy:	Farington House Farington, Leyland, Lancashire British Geological Survey, National Geoscience Information Service 93401 Opencast <b>Ceased</b> Unknown Operator Not Supplied Quaternary Glaciofluvial Deposits, Devensian Sand Located by supplier to within 10m	A10SE (SW)	403	1	354655 424016
	BGS Recorded Mine					
12	Site Name: Location: Source: Reference: Type: <b>Status:</b> Operator: Operator Location: Periodic Type: Geology: Commodity: Positional Accuracy:	Cuerden Nook Cuerden Green, Bamber Bridge, Lancashire British Geological Survey, National Geoscience Information Service 93406 Opencast <b>Ceased</b> Unknown Operator Not Supplied Quaternary Glaciofluvial Deposits, Devensian Sand Located by supplier to within 10m	A16NE (NE)	558	1	356163 425254

#### **Mining and Natural Cavities Data**

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Coal Mining Affected Areas				
	In an area which may not be affected by coal mining				
	Non Coal Mining Areas of Great Britain				
	No Hazard				

## Historical Land Use Information (1:2,500)

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
13	Extractive Industries or Potential Excavations from 1950-1980         Use:       Pond         First Map Published       1965         Date:       Last Map Published         N/A       Date:	A12NE (E)	0	-	355904 424415
14	Extractive Industries or Potential Excavations from 1950-1980         Use:       Pond         First Map Published       1965         Date:       Last Map Published         Last Map Published       N/A         Date:       Last Map Published	A12NE (E)	0	-	355883 424416
15	Extractive Industries or Potential Excavations from 1950-1980         Use:       Pond         First Map Published       1965         Date:       Last Map Published         Last Map Published       N/A         Date:       Last Map Published	A12NW (E)	0	-	355717 424459
16	Extractive Industries or Potential Excavations from 1950-1980         Use:       Pond         First Map Published       1964         Date:       Last Map Published       1965         Date:       Pond       Pond	A11NW (NW)	0	-	355047 424445
17	Extractive Industries or Potential Excavations from 1950-1980         Use:       Pond         First Map Published       1964         Date:       Last Map Published         Last Map Published       1965         Date:       Last Map Published	A11NW (NW)	0	-	355048 424507
18	Extractive Industries or Potential Excavations from 1950-1980         Use:       Unspecified Pit         First Map Published       1965         Date:       Last Map Published         Last Map Published       N/A         Date:	A12NW (NE)	0	-	355604 424555
19	Extractive Industries or Potential Excavations from 1950-1980         Use:       Unspecified Pit         First Map Published       1965         Date:       Last Map Published         Last:       N/A         Date:	A16SW (NE)	0	-	355842 424669
20	Extractive Industries or Potential Excavations from 1950-1980         Use:       Pond         First Map Published       1965         Date:       Last Map Published         Last:       Date:	A16SW (NE)	0	-	355571 424698
21	Extractive Industries or Potential Excavations from 1950-1980         Use:       Unspecified Pit         First Map Published       1964         Date:       Last Map Published         Last Map Published       1965         Date:       Last Map Published	A11NE (NE)	0	-	355205 424322
22	Extractive Industries or Potential Excavations from 1950-1980         Use:       Pond         First Map Published       1964         Date:       Last Map Published         Last Map Published       1965         Date:       Last Map Published	A11NE (NE)	0	-	355240 424350
23	Extractive Industries or Potential Excavations from 1950-1980         Use:       Unspecified Pit         First Map Published       1965         Date:       Last Map Published         N/A       Date:	A16SW (NE)	0	-	355569 424695

## Historical Land Use Information (1:2,500)

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
24	Extractive Industries or Potential Excavations from 1950-1980         Use:       Well         First Map Published       1964         Date:       Last Map Published         Last Map Published       1965         Date:       Last Map Published	A15SE (N)	0	-	355304 424659
25	Extractive Industries or Potential Excavations from 1950-1980         Use:       Pond         First Map Published       1965         Date:       Last Map Published         N/A       Date:	A12NW (NE)	0	-	355611 424563
26	Extractive Industries or Potential Excavations from 1950-1980         Use:       Pond         First Map Published       1965         Date:       Last Map Published         N/A       Date:	A16SW (NE)	4	-	355692 424715
27	Extractive Industries or Potential Excavations from 1950-1980         Use:       Pond         First Map Published       1964         Date:       Last Map Published         Last Map Published       1965         Date:       Last Map Published	A15SE (NE)	14	-	355472 424774
28	Extractive Industries or Potential Excavations from 1950-1980         Use:       Pond         First Map Published       1965         Date:       Last Map Published         Last Map Published       N/A         Date:       Last Map Published	A16SW (NE)	34	-	355767 424714
29	Extractive Industries or Potential Excavations from 1950-1980         Use:       Unspecified Pit         First Map Published       1965         Date:       Last Map Published         N/A       Date:	A12NW (E)	42	-	355669 424350
30	Extractive Industries or Potential Excavations from 1950-1980         Use:       Pond         First Map Published       1965         Date:       Last Map Published         Last Map Published       N/A         Date:       Last Map Published	A12SW (E)	68	-	355635 424218
31	Extractive Industries or Potential Excavations from 1950-1980         Use:       Unspecified Pit         First Map Published       1965         Date:       Last Map Published         N/A       Date:	A12NE (E)	77	-	356089 424399
32	Extractive Industries or Potential Excavations from 1950-1980         Use:       Pond         First Map Published       1965         Date:       Last Map Published         N/A       Date:	A12NE (E)	80	-	356093 424403
33	Extractive Industries or Potential Excavations from 1950-1980         Use:       Pond         First Map Published       1964         Date:       Last Map Published       1965         Date:       Date:       Date:	A11SW (SW)	88	-	355063 424075

## Historical Land Use Information (1:10,000)

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Quarrying of sand & clay, operation of sand & gravel pits				
34	Use: Not Supplied Date of Mapping: 1848	A12NW (NE)	0	-	355620 424566
35	Quarrying of sand & clay, operation of sand & gravel pits         Use:       Not Supplied         Date of Mapping:       1931	A16SW (NE)	5	-	355863 424667
36	Quarrying of sand & clay, operation of sand & gravel pits         Use:       Not Supplied         Date of Mapping:       1848	A12NW (E)	28	-	355748 424358
37	Quarrying of sand & clay, operation of sand & gravel pits         Use:       Not Supplied         Date of Mapping:       1931	A16SW (NE)	48	-	355558 424755
38	Quarrying of sand & clay, operation of sand & gravel pits         Use:       Not Supplied         Date of Mapping:       1894	A12NW (E)	61	-	355694 424341
39	Quarrying of sand & clay, operation of sand & gravel pits         Use:       Not Supplied         Date of Mapping:       1848	A10SE (SW)	377	-	354671 424046
40	Quarrying of sand & clay, operation of sand & gravel pits         Use:       Not Supplied         Date of Mapping:       1848	A16NE (NE)	539	-	356157 425225
41	Former Marshes       Use:     Former Marsh       Date of Mapping:     1955	A16SW (NE)	57	-	355737 424751
42	Potentially Infilled Land (Non-Water)         Use:       Unknown Filled Ground (Pit, quarry etc)         Date of Mapping:       1992	A12NW (NE)	0	-	355620 424566
43	Potentially Infilled Land (Non-Water)         Use:       Unknown Filled Ground (Pit, quarry etc)         Date of Mapping:       1992	A12NW (E)	28	-	355748 424358
44	Potentially Infilled Land (Non-Water)         Use:       Unknown Filled Ground (Pit, quarry etc)         Date of Mapping:       1990	A10SE (SW)	377	-	354671 424046
45	Potentially Infilled Land (Non-Water)Use:Unknown Filled Ground (Pit, quarry etc)Date of Mapping:1988	A16NE (NE)	539	-	356157 425225
46	Potentially Infilled Land (Water)         Use:       Unknown Filled Ground (Pond, marsh, river, stream, dock etc)         Date of Mapping:       1956	A15NE (N)	0	-	355471 425192
47	Potentially Infilled Land (Water)           Use:         Unknown Filled Ground (Pond, marsh, river, stream, dock etc)           Date of Mapping:         1955	A15SW (N)	0	-	355130 424793
48	Dotentially Infilled Land (Water)           Use:         Unknown Filled Ground (Pond, marsh, river, stream, dock etc)           Date of Mapping:         1955	A11NE (NE)	0	-	355338 424492
49	Potentially Infilled Land (Water)           Use:         Unknown Filled Ground (Pond, marsh, river, stream, dock etc)           Date of Mapping:         1894	A11NE (NE)	0	-	355218 424327
50	Potentially Infilled Land (Water)           Use:         Unknown Filled Ground (Pond, marsh, river, stream, dock etc)           Date of Mapping:         1848	A15SW (N)	0	-	355153 424844
51	Potentially Infilled Land (Water)           Use:         Unknown Filled Ground (Pond, marsh, river, stream, dock etc)           Date of Mapping:         1848	A11NE (NE)	0	-	355299 424350
52	Potentially Infilled Land (Water)           Use:         Unknown Filled Ground (Pond, marsh, river, stream, dock etc)           Date of Mapping:         1894	A11SW (W)	0	-	355033 424222
53	Potentially Infilled Land (Water)         Use:       Unknown Filled Ground (Pond, marsh, river, stream, dock etc)         Date of Mapping:       1956	A15NE (N)	24	-	355360 425193
54	Potentially Infilled Land (Water)         Use:       Unknown Filled Ground (Pond, marsh, river, stream, dock etc)         Date of Mapping:       1912	A11NW (W)	25	-	354988 424321

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## Historical Land Use Information (1:10,000)

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
55	Use:         Unknown Filled Ground (Pond, marsh, river, stream, dock etc)           Date of Mapping:         1912	A15NW (N)	30	-	355031 425021
56	Potentially Infilled Land (Water)         Use:       Unknown Filled Ground (Pond, marsh, river, stream, dock etc)         Date of Mapping:       1956	A15NE (N)	40	-	355343 425205
57	Potentially Infilled Land (Water)         Use:       Unknown Filled Ground (Pond, marsh, river, stream, dock etc)         Date of Mapping:       1894	A16SW (NE)	45	-	355550 424746
58	Potentially Infilled Land (Water)           Use:         Unknown Filled Ground (Pond, marsh, river, stream, dock etc)           Date of Mapping:         1955	A15SW (N)	51	-	355057 424699
59	Potentially Infilled Land (Water)         Use:       Unknown Filled Ground (Pond, marsh, river, stream, dock etc)         Date of Mapping:       1848	A16NW (N)	54	-	355537 425262
60	Potentially Infilled Land (Water)           Use:         Unknown Filled Ground (Pond, marsh, river, stream, dock etc)           Date of Mapping:         1848	A15NE (N)	58	-	355439 425246
61	Potentially Infilled Land (Water)           Use:         Unknown Filled Ground (Pond, marsh, river, stream, dock etc)           Date of Mapping:         1848	A15NE (N)	76	-	355397 425255
62	Potentially Infilled Land (Water)           Use:         Unknown Filled Ground (Pond, marsh, river, stream, dock etc)           Date of Mapping:         1955	A12NE (E)	86	-	356099 424410
63	Potentially Infilled Land (Water)           Use:         Unknown Filled Ground (Pond, marsh, river, stream, dock etc)           Date of Mapping:         1955	A11SW (SW)	96	-	355059 424068
64	Potentially Infilled Land (Water)         Use:       Unknown Filled Ground (Pond, marsh, river, stream, dock etc)         Date of Mapping:       1955	A11SW (W)	102	-	354917 424221
65	Potentially Infilled Land (Water)           Use:         Unknown Filled Ground (Pond, marsh, river, stream, dock etc)           Date of Mapping:         1956	A16NW (NE)	109	-	355604 425313
66	Potentially Infilled Land (Water)           Use:         Unknown Filled Ground (Pond, marsh, river, stream, dock etc)           Date of Mapping:         1912	A11SW (W)	145	-	354872 424237
67	Potentially Infilled Land (Water)           Use:         Unknown Filled Ground (Pond, marsh, river, stream, dock etc)           Date of Mapping:         1955	A15SW (NW)	167	-	354863 424767
68	Potentially Infilled Land (Water)           Use:         Unknown Filled Ground (Pond, marsh, river, stream, dock etc)           Date of Mapping:         1955	A7NW (S)	207	-	355081 423955
69	Potentially Infilled Land (Water)           Use:         Unknown Filled Ground (Pond, marsh, river, stream, dock etc)           Date of Mapping:         1955	A7NW (SW)	243	-	354905 423954
70	Potentially Infilled Land (Water)           Use:         Unknown Filled Ground (Pond, marsh, river, stream, dock etc)           Date of Mapping:         1848	A14NE (N)	254	-	354847 425153
71	Use:         Unknown Filled Ground (Pond, marsh, river, stream, dock etc)           Date of Mapping:         1848	A14NE (NW)	275	-	354722 425036
72	Potentially Infilled Land (Water)           Use:         Unknown Filled Ground (Pond, marsh, river, stream, dock etc)           Date of Mapping:         1955	A7NW (S)	277	-	355169 423879
73	Potentially Infilled Land (Water)           Use:         Unknown Filled Ground (Pond, marsh, river, stream, dock etc)           Date of Mapping:         1848	A7NW (SW)	280	-	354876 423929
74	Potentially Infilled Land (Water)         Use:       Unknown Filled Ground (Pond, marsh, river, stream, dock etc)         Date of Mapping:       1955	A14NE (NW)	297	-	354775 425104
75	Potentially Infilled Land (Water)         Use:       Unknown Filled Ground (Pond, marsh, river, stream, dock etc)         Date of Mapping:       1848	A7NW (S)	313	-	355131 423844

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## Historical Land Use Information (1:10,000)

Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potentially Infilled Land (Water)					
76	Use: Unknown Fille Date of Mapping: 1912	d Ground (Pond, marsh, river, stream, dock etc)	A8NW (SE)	333	-	355534 423748
77	Potentially Infilled Land (Water)           Use:         Unknown Fille           Date of Mapping:         1894	d Ground (Pond, marsh, river, stream, dock etc)	A10SE (W)	338	-	354681 424207
78	Potentially Infilled Land (Water) Use: Unknown Fille Date of Mapping: 1955	d Ground (Pond, marsh, river, stream, dock etc)	A7NE (SE)	339	-	355435 423750
79	Potentially Infilled Land (Water) Use: Unknown Fille Date of Mapping: 1848	d Ground (Pond, marsh, river, stream, dock etc)	A10SE (W)	355	-	354659 424252
80	Potentially Infilled Land (Water) Use: Unknown Fille	d Ground (Pond, marsh, river, stream, dock etc)	A7NE	357		355222
81	Date of Mapping: 1955 Potentially Infilled Land (Water)	d Cround (Dand marsh river stream deals ste)	(S)	074		423794
81	Use: Unknown Fille Date of Mapping: 1931 Potentially Infilled Land (Water)	d Ground (Pond, marsh, river, stream, dock etc)	A7NW (S)	371	-	355060 423793
82		d Ground (Pond, marsh, river, stream, dock etc)	A14NE (NW)	373	-	354683 425057
83	Potentially Infilled Land (Water)           Use:         Unknown Fille           Date of Mapping:         1848	d Ground (Pond, marsh, river, stream, dock etc)	A7NW (S)	384	-	355147 423773
84	Potentially Infilled Land (Water) Use: Unknown Fille Date of Mapping: 1848	d Ground (Pond, marsh, river, stream, dock etc)	A14SE (NW)	388	-	354639 424654
85	Potentially Infilled Land (Water) Use: Unknown Fille Date of Mapping: 1848	d Ground (Pond, marsh, river, stream, dock etc)	A10SE (W)	401	-	354619 424198
86	Potentially Infilled Land (Water)	d Ground (Pond, marsh, river, stream, dock etc)	A7NW (S)	423	-	355048 423740
87	Potentially Infilled Land (Water) Use: Unknown Fille	d Ground (Pond, marsh, river, stream, dock etc)	A10SE	440	-	354576
88	Date of Mapping:       1848         Potentially Infilled Land (Water)         Use:       Unknown Fille	d Ground (Pond, marsh, river, stream, dock etc)	(W) A14NE	446		424231 354627
	Date of Mapping: 1955 Potentially Infilled Land (Water)		(NW)			425132
89	Use: Unknown Fille Date of Mapping: 1955 Potentially Infilled Land (Water)	d Ground (Pond, marsh, river, stream, dock etc)	A10NE (NW)	474	-	354549 424554
90	Use: Unknown Fille Date of Mapping: 1848	d Ground (Pond, marsh, river, stream, dock etc)	A14NW (NW)	494	-	354512 425046
91	Potentially Infilled Land (Water)           Use:         Unknown Fille           Date of Mapping:         1956	d Ground (Pond, marsh, river, stream, dock etc)	A16NE (NE)	498	-	356094 425292
92	Potentially Infilled Land (Water)Use:Unknown FilleDate of Mapping:1914	d Ground (Pond, marsh, river, stream, dock etc)	A16NE (NE)	520	-	356130 425169
93	Potentially Infilled Land (Water) Use: Unknown Fille Date of Mapping: 1848	d Ground (Pond, marsh, river, stream, dock etc)	A10NW (NW)	523	-	354500 424557
94	Potentially Infilled Land (Water) Use: Unknown Fille Date of Mapping: 1912	d Ground (Pond, marsh, river, stream, dock etc)	A7SE (S)	543	-	355404 423548
95	Potentially Infilled Land (Water)	d Ground (Pond, marsh, river, stream, dock etc)	A14NW (NW)	564	-	354478 424986
96	Potentially Infilled Land (Water)	d Ground (Pond, marsh, river, stream, dock etc)	A14NW (NW)	609	-	354437 425019

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## Historical Land Use Information (1:10,000)

Map ID	Details		Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potentially Infilled Land (Water)					
97	Use: Unknown Filled Ground (Pond, marsh, Date of Mapping: 1955	river, stream, dock etc)	A7SE (S)	647	-	355196 423505
98	Potentially Infilled Land (Water)           Use:         Unknown Filled Ground (Pond, marsh, Date of Mapping:           1955	river, stream, dock etc)	A14NW (NW)	665	-	354411 425175
99	Potentially Infilled Land (Water)           Use:         Unknown Filled Ground (Pond, marsh, Date of Mapping: 1912	river, stream, dock etc)	A14SW (NW)	666	-	354369 424909
100	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, Date of Mapping: 1894	river, stream, dock etc)	A7SW (S)	670	-	355027 423493
101	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, Date of Mapping: 1848	river, stream, dock etc)	A10NW (W)	683		354339 424564
102	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh,	river, stream, dock etc)	A10SW	689	-	354346
103	Date of Mapping:       1955         Potentially Infilled Land (Water)         Use:       Unknown Filled Ground (Pond, marsh, Date of Mapping:         1848	river, stream, dock etc)	(W) A10NW (W)	699	-	424063 354326 424614
104	Date of Mapping.         1646           Potentially Infilled Land (Water)           Use:         Unknown Filled Ground (Pond, marsh, Date of Mapping: 1955	river, stream, dock etc)	A10SW (W)	721		354316 424048
105	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, Date of Mapping: 1955	river, stream, dock etc)	A10SW (W)	722	-	354305 424121
106	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, Date of Mapping: 1955	river, stream, dock etc)	A14NW (NW)	729	-	354340 425153
107	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, Date of Mapping: 1955	river, stream, dock etc)	A14NW (NW)	732	-	354378 425283
108	Potentially Infilled Land (Water)Use:Unknown Filled Ground (Pond, marsh, Date of Mapping:1955	river, stream, dock etc)	A14NW (NW)	759	-	354354 425297
109	Potentially Infilled Land (Water)Use:Unknown Filled Ground (Pond, marsh, Date of Mapping:1848	river, stream, dock etc)	A14SW (NW)	784	-	354245 424910
110	Potentially Infilled Land (Water)           Use:         Unknown Filled Ground (Pond, marsh, Date of Mapping:	river, stream, dock etc)	A7SW (S)	807	-	354911 423365
111	Potentially Infilled Land (Water)           Use:         Unknown Filled Ground (Pond, marsh, Date of Mapping:	river, stream, dock etc)	A7SW (S)	813	-	355164 423341
112	Potentially Infilled Land (Water)           Use:         Unknown Filled Ground (Pond, marsh, Date of Mapping:	river, stream, dock etc)	A4NW (S)	831	-	355557 423251
113	Potentially Infilled Land (Water)           Use:         Unknown Filled Ground (Pond, marsh, Date of Mapping:	river, stream, dock etc)	A9NE (W)	869	-	354146 424376
114	Potentially Infilled Land (Water)           Use:         Unknown Filled Ground (Pond, marsh, Date of Mapping:	river, stream, dock etc)	A13NE (NW)	871	-	354176 425043
115	Potentially Infilled Land (Water)           Use:         Unknown Filled Ground (Pond, marsh, Date of Mapping:	river, stream, dock etc)	A6SE (SW)	885	-	354690 423346
116	Potentially Infilled Land (Water)Use:Unknown Filled Ground (Pond, marsh, Date of Mapping:1955	river, stream, dock etc)	A3NE (S)	888	-	355244 423215
117	Potentially Infilled Land (Water)Use:Unknown Filled Ground (Pond, marsh, Date of Mapping:1955	river, stream, dock etc)	A6SW (SW)	909	-	354315 423602

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## Historical Land Use Information (1:10,000)

Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potentially Infilled	Land (Water)				
118	Use: Date of Mapping:	Unknown Filled Ground (Pond, marsh, river, stream, dock etc) 1894	A3NW (S)	911	-	354860 423268
	Potentially Infilled	Land (Water)				
119	Use: Date of Mapping:	Unknown Filled Ground (Pond, marsh, river, stream, dock etc) 1848	A9NE (W)	923	-	354092 424370
	Potentially Infilled	Land (Water)				
120	Use: Date of Mapping:	Unknown Filled Ground (Pond, marsh, river, stream, dock etc) 1894	A6SW (SW)	926	-	354462 423432
	Potentially Infilled	Land (Water)				
121	Use: Date of Mapping:	Unknown Filled Ground (Pond, marsh, river, stream, dock etc) 1955	A13NE (NW)	929	-	354150 425218
	Potentially Infilled	Land (Water)				
122	Use: Date of Mapping:	Unknown Filled Ground (Pond, marsh, river, stream, dock etc) 1894	A6SW (SW)	945	-	354469 423403
	Potentially Infilled	Land (Water)				
123	Use: Date of Mapping:	Unknown Filled Ground (Pond, marsh, river, stream, dock etc) 1955	A2NE (S)	955	-	354842 423224
	Potentially Infilled	Land (Water)				
124	Use: Date of Mapping:	Unknown Filled Ground (Pond, marsh, river, stream, dock etc) 1955	A2NE (SW)	978	-	354646 423263
	Potentially Infilled	Land (Water)				
125	Use: Date of Mapping:	Unknown Filled Ground (Pond, marsh, river, stream, dock etc) 1848	A6SW (SW)	979	-	354372 423438
	Potentially Infilled	Land (Water)				
126	Use: Date of Mapping:	Unknown Filled Ground (Pond, marsh, river, stream, dock etc) 1848	A9NE (W)	1000	-	354024 424581

## Ground Stability Data (1:50,000)

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	CBSCB Compensation District				
	The site does not fall within the brine compensation area.				
	Brine Subsidence Solution Area				
	The site does not fall within the brine subsidence solution area.				
	Potential for Collapsible Ground Stability Hazards				
127	Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A15NW (N)	0	1	355161 425000
	Potential for Collapsible Ground Stability Hazards				
128	Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A11SW (SE)	0	1	355161 424273
	Potential for Collapsible Ground Stability Hazards	()			
129	Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A11SW (W)	13	1	355000 424273
	Potential for Collapsible Ground Stability Hazards				
130	Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A15NW (N)	51	1	355000 425000
	Potential for Collapsible Ground Stability Hazards				
131	Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A15NW (N)	122	1	355000 425227
	Potential for Collapsible Ground Stability Hazards		182 1		
132	Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A15NW (N)	182	1	354900 425149
	Potential for Collapsible Ground Stability Hazards	(14)			423143
	Hazard Potential: No Hazard	A15NW	15	1	355000
	Source: British Geological Survey, National Geoscience Information Service	(N)			425095
	Potential for Collapsible Ground Stability Hazards				
	Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A15NW (N)	95	1	354912 425032
	Potential for Collapsible Ground Stability Hazards				
	Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A14NE (NW)	233	1	354814 425000
133	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate	A15NW	15	1	355000
	Source: British Geological Survey, National Geoscience Information Service	(N)			425095
134	Potential for Compressible Ground Stability Hazards           Hazard Potential:         Moderate           Source:         British Geological Survey, National Geoscience Information Service	A15NW (N)	95	1	354912 425032
	Potential for Compressible Ground Stability Hazards	(,			420002
135	Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	(N)	213	1	355476 425412
	Potential for Compressible Ground Stability Hazards				
136	Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A14NE (NW)	233	1	354814 425000
	Potential for Compressible Ground Stability Hazards				
	Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A15NW (N)	0	1	355161 425000
	Potential for Compressible Ground Stability Hazards				
	Hazard Potential: No Hazard	A11SW	0	1	355161
	Source: British Geological Survey, National Geoscience Information Service	(SE)			424273
	Potential for Compressible Ground Stability Hazards           Hazard Potential:         No Hazard           Source:         British Geological Survey, National Geoscience Information Service	A11SW	13	1	355000 424273
	Potential for Compressible Ground Stability Hazards	(W)			424213
	Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A15NW (N)	51	1	355000 425000
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard	A15NW	122	1	355000
	Source:         British Geological Survey, National Geoscience Information Service           Potential for Compressible Ground Stability Hazards	(N)			425227
	Hazard Potential: No Hazard	A15NW	182	1	354900

## Ground Stability Data (1:50,000)

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Ground Dissolution Stability Hazards				
	Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A11SW (SE)	0	1	355161 424273
	Potential for Ground Dissolution Stability Hazards           Hazard Potential:         No Hazard           Source:         British Geological Survey, National Geoscience Information Service	A15NW (N)	0	1	355161 425000
	Potential for Ground Dissolution Stability Hazards           Hazard Potential:         No Hazard           Source:         British Geological Survey, National Geoscience Information Service	A11SW (W)	13	1	355000 424273
	Potential for Ground Dissolution Stability Hazards           Hazard Potential:         No Hazard           Source:         British Geological Survey, National Geoscience Information Service	A15NW (N)	51	1	355000 425000
137	Potential for Landslide Ground Stability Hazards           Hazard Potential:         Very Low           Source:         British Geological Survey, National Geoscience Information Service	A15NW (N)	0	1	355161 425000
138	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A11SE (E)	0	1	355412 424194
139	Potential for Landslide Ground Stability Hazards           Hazard Potential:         Low           Source:         British Geological Survey, National Geoscience Information Service	A15SE (NE)	0	1	355492 424909
140	Potential for Landslide Ground Stability Hazards           Hazard Potential:         Very Low           Source:         British Geological Survey, National Geoscience Information Service	A11SW (SE)	0	1	355161 424273
141	Potential for Landslide Ground Stability Hazards           Hazard Potential:         Low           Source:         British Geological Survey, National Geoscience Information Service	A16SW (NE)	11	1	355780 424709
142	Potential for Landslide Ground Stability Hazards           Hazard Potential:         Moderate           Source:         British Geological Survey, National Geoscience Information Service	A11SE (SE)	12	1	355432 424101
143	Potential for Landslide Ground Stability Hazards           Hazard Potential:         Very Low           Source:         British Geological Survey, National Geoscience Information Service	A11SW (W)	13	1	355000 424273
144	Potential for Landslide Ground Stability Hazards           Hazard Potential:         Low           Source:         British Geological Survey, National Geoscience Information Service	A12NE (E)	35	1	356068 424641
145	Potential for Landslide Ground Stability Hazards           Hazard Potential:         Moderate           Source:         British Geological Survey, National Geoscience Information Service	A16SE (NE)	39	1	355906 424691
146	Potential for Landslide Ground Stability Hazards           Hazard Potential:         Very Low           Source:         British Geological Survey, National Geoscience Information Service	A15NW (N)	51	1	355000 425000
147	Potential for Landslide Ground Stability Hazards           Hazard Potential:         Low           Source:         British Geological Survey, National Geoscience Information Service	A12SW (E)	83	1	355780 424075
148	Potential for Landslide Ground Stability Hazards           Hazard Potential:         Very Low           Source:         British Geological Survey, National Geoscience Information Service	A16SE (NE)	83	1	356104 424681
149	Potential for Landslide Ground Stability Hazards           Hazard Potential:         Low           Source:         British Geological Survey, National Geoscience Information Service	A12SW (E)	88	1	355864 424002
150	Potential for Landslide Ground Stability Hazards           Hazard Potential:         Low           Source:         British Geological Survey, National Geoscience Information Service	A12SW (E)	212	1	355747 424033
151	Potential for Landslide Ground Stability Hazards           Hazard Potential:         Low           Source:         British Geological Survey, National Geoscience Information Service	(E)	216	1	356218 424355
152	Potential for Landslide Ground Stability Hazards           Hazard Potential:         Very Low           Source:         British Geological Survey, National Geoscience Information Service	(E)	216	1	356270 424612
153	Potential for Running Sand Ground Stability Hazards           Hazard Potential:         Very Low           Source:         British Geological Survey, National Geoscience Information Service	A15NW (N)	0	1	355161 425000

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## Ground Stability Data (1:50,000)

Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Runni	ing Sand Ground Stability Hazards				
154	Hazard Potential: Source:	Very Low British Geological Survey, National Geoscience Information Service	A11SW (SE)	0	1	355161 424273
155	Potential for Runni Hazard Potential: Source:	<b>ing Sand Ground Stability Hazards</b> Very Low British Geological Survey, National Geoscience Information Service	A11SW (W)	13	1	355000 424273
156	Potential for Runni Hazard Potential: Source:	ing Sand Ground Stability Hazards Low British Geological Survey, National Geoscience Information Service	A15NW (N)	15	1	355000 425095
157	Potential for Runni Hazard Potential: Source:	ing Sand Ground Stability Hazards Very Low British Geological Survey, National Geoscience Information Service	A15NW (N)	51	1	355000 425000
158	Potential for Runni Hazard Potential: Source:	ing Sand Ground Stability Hazards Low British Geological Survey, National Geoscience Information Service	A15NW (N)	95	1	354912 425032
159	Potential for Runni Hazard Potential: Source:	ing Sand Ground Stability Hazards Very Low British Geological Survey, National Geoscience Information Service	A15NW (N)	122	1	355000 425227
160	Potential for Runni Hazard Potential: Source:	ing Sand Ground Stability Hazards Very Low British Geological Survey, National Geoscience Information Service	A15NW (N)	182	1	354900 425149
161	Potential for Runni Hazard Potential: Source:	ing Sand Ground Stability Hazards Low British Geological Survey, National Geoscience Information Service	A14NE (NW)	233	1	354814 425000
162	Potential for Shrin Hazard Potential: Source:	king or Swelling Clay Ground Stability Hazards Very Low British Geological Survey, National Geoscience Information Service	A11SW (W)	0	1	355118 424285
163	Potential for Shrin Hazard Potential: Source:	king or Swelling Clay Ground Stability Hazards Very Low British Geological Survey, National Geoscience Information Service	A15NW (N)	0	1	355161 425000
164	Potential for Shrin Hazard Potential: Source:	king or Swelling Clay Ground Stability Hazards Very Low British Geological Survey, National Geoscience Information Service	A11SW (W)	13	1	355000 424273
165	Potential for Shrin Hazard Potential: Source:	king or Swelling Clay Ground Stability Hazards Very Low British Geological Survey, National Geoscience Information Service	A15NW (N)	51	1	355000 425000
	Potential for Shrin Hazard Potential: Source:	king or Swelling Clay Ground Stability Hazards No Hazard British Geological Survey, National Geoscience Information Service	A11SW (SE)	0	1	355161 424273
	Potential for Shrin Hazard Potential: Source:	<b>king or Swelling Clay Ground Stability Hazards</b> No Hazard British Geological Survey, National Geoscience Information Service	A10SE (W)	245	1	354784 424131



#### **Historical Map List**

#### The following mapping has been analysed for Historical Land Use Information (1:2,500):

1:2,500	Mapsheet	Published Date
Lancashire And Furness	069_11	1893
Lancashire And Furness	069_11	1911
Lancashire And Furness	069_11	1931
Ordnance Survey Plan	SD5623	1964
Ordnance Survey Plan	SD5523	1965
Ordnance Survey Plan	SD5523	1965
Ordnance Survey Plan	SD5524	1965
Ordnance Survey Plan	SD5524	1965
Ordnance Survey Plan	SD5524	1965
Ordnance Survey Plan	SD5524	1965
Ordnance Survey Plan	SD5525	1965
Ordnance Survey Plan	SD5525	1965
Ordnance Survey Plan	SD5624	1965
Ordnance Survey Plan	SD5624	1965



#### **Historical Map List**

#### The following mapping has been analysed for Historical Land Use Information (1:10,000):

1:10,560	Mapsheet	Published Date
Lancashire And Furness	069_00	1848
Lancashire And Furness	069_NE	1894
Lancashire And Furness	069_NW	1894
Lancashire And Furness	069_SE	1894
Lancashire And Furness	069_SW	1894
Lancashire And Furness	069_NW	1912
Lancashire And Furness	069_SE	1912
Lancashire And Furness	069_SW	1912
Lancashire And Furness	069_NE	1914
Lancashire And Furness	069_NE	1931
Lancashire And Furness	069_NW	1931
Lancashire And Furness	069_SE	1931
Lancashire And Furness	069_SW	1931
Ordnance Survey Plan	SD52NW	1955
Ordnance Survey Plan	SD52SE	1955
Ordnance Survey Plan	SD52SW	1955
Ordnance Survey Plan	SD52NE	1956
1:10,000	Mapsheet	Published Date
Ordnance Survey Plan	SD52NE	1988
Ordnance Survey Plan	SD52SW	1990
Ordnance Survey Plan	SD52NW	1991
Ordnance Survey Plan	SD52SE	1992

**Data Currency** 

LANDMARK INFORMATION	GROUP*
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Mining and Cavities Data	Version	Update Cycle
BGS Recorded Mineral Sites		
British Geological Survey - National Geoscience Information Service	November 2021	Bi-Annually
Coal Mining Affected Areas		
The Coal Authority - Property Searches	March 2014	Annual Rolling Update
Man Made Mining Cavities		
Stantec UK Ltd	December 2021	Bi-Annually
Mining Instability		
Ove Arup & Partners	June 1998	Not Applicable
Natural Cavities		
Stantec UK Ltd	December 2021	Bi-Annually
Non Coal Mining Areas of Great Britain		
British Geological Survey - National Geoscience Information Service	May 2015	Not Applicable
Historical Land Use Information (1:2,500)	Version	Update Cycle
Subterranean Features		
Landmark Information Group Limited	February 2020	Bi-Annually
Ground Stability Data (1:50,000)	Version	Update Cycle
CBSCB Compensation District		
Cheshire Brine Subsidence Compensation Board (CBSCB)	August 2011	
Cheshire Brine Subsidence Compensation Board (CBSCB)	November 2020	As notified
Potential for Collapsible Ground Stability Hazards		
British Geological Survey - National Geoscience Information Service	April 2020	Annually
Potential for Compressible Ground Stability Hazards		
British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Ground Dissolution Stability Hazards		
British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Landslide Ground Stability Hazards		
British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Running Sand Ground Stability Hazards		
British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Shrinking or Swelling Clay Ground Stability Hazards		
British Geological Survey - National Geoscience Information Service	January 2019	Annually
Brine Subsidence Solution Area		
Johnson Poole & Bloomer	December 2020	Annual Rolling Update



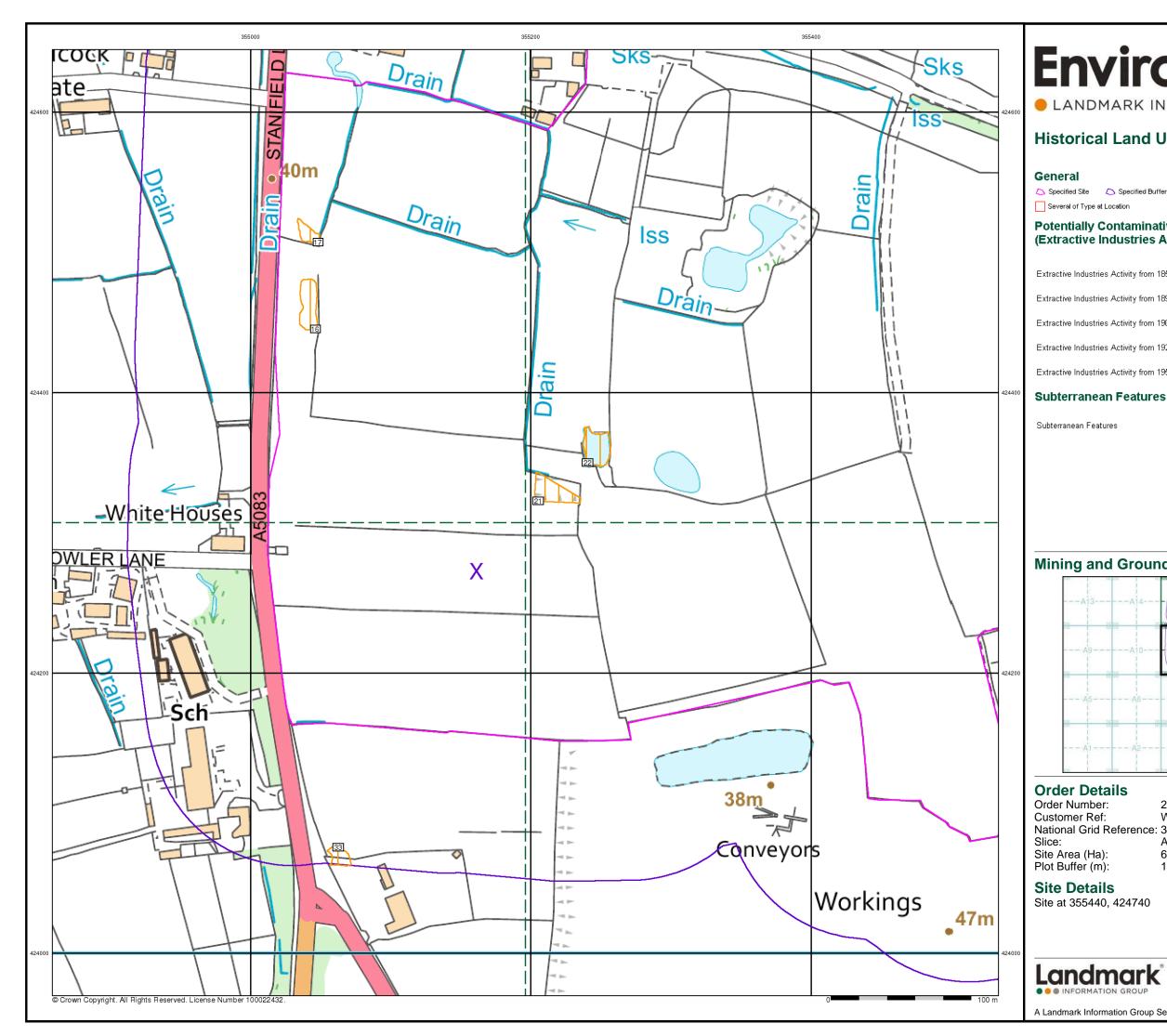
A selection of organisations who provide data within this report

Data Supplier	Data Supplier Logo
Ordnance Survey	Map data
British Geological Survey	British Geological Survey
The Coal Authority	The Coal Authority
Ove Arup	ARUP
Stantec UK Ltd	Stantec
Wardell Armstrong	your earth our world
Johnson Poole & Bloomer	ЛЬВ

LANDMARK INFORMATION GROUP\*

## **Useful Contacts**

Contact	Name and Address	Contact Details
1	British Geological Survey - Enquiry Service British Geological Survey, Environmental Science Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
2	Ove Arup & Partners Central Square, Forth Street, Newcastle upon Tyne, Tyne and Wear, NE1 3PL	Telephone: 0191 261 6080 Fax: 0191 261 7879
-	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



#### **Envirocheck**<sup>®</sup> LANDMARK INFORMATION GROUP\* Historical Land Use Information (1:2,500) General 🖒 Specified Site 🖒 Specified Buffer(s) 🕺 Bearing Reference Point 🛽 Map ID Several of Type at Location Potentially Contaminative Industrial Uses (Extractive Industries Activity) Line Polyaor Extractive Industries Activity from 1855 - 1909

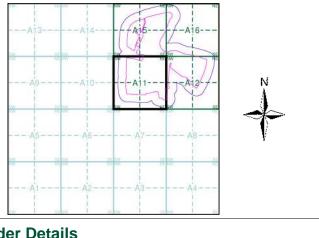
Extractive Industries Activity from 1893 - 1915

Extractive Industries Activity from 1906 - 1937

Extractive Industries Activity from 1924 - 1949

Extractive Industries Activity from 1950 - 1980

Subterranean Features



#### **Order Details**

Order Number: Customer Ref: National Grid Reference: 355160, 424270 Slice: Site Area (Ha): Plot Buffer (m):

289775268\_1\_1 WIE11556-107 А 61.13 100

Site Details Site at 355440, 424740





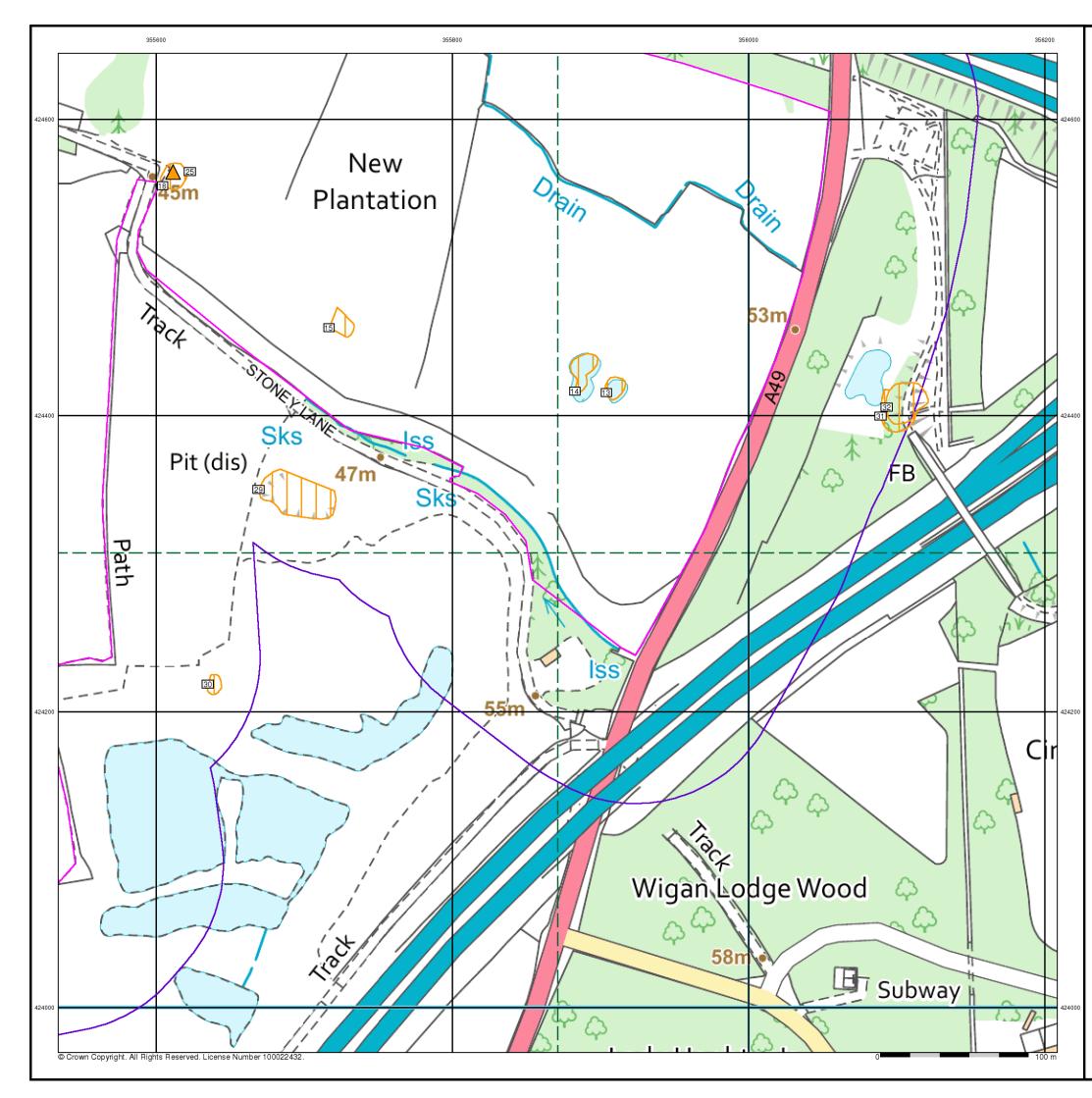
Tel: Fax: Web: 0844 844 9952 0844 844 9951 www.envirocheck.co.uk

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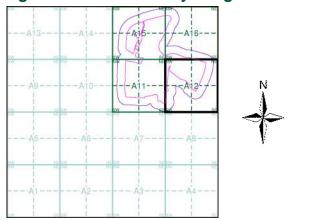
Polygor



# **Envirocheck**<sup>®</sup> LANDMARK INFORMATION GROUP\* Historical Land Use Information (1:2,500) General

🔼 Specified Site	😂 Specified Buffer(s)	Х	Bearing Ref	erence Point	8 Map ID		
Several of Type at Location							
Potentially Contaminative Industrial Uses (Extractive Industries Activity)							
			Point	Line	Polygon		
Extractive Industri	ies Activity from 1855 - 1	909					
Extractive Industri	ies Activity from 1893 - 1	915			$\square$		
Extractive Industri	ies Activity from 1906 - 1	937					
Extractive Industri	ies Activity from 1924 - 1	949					
Extractive Industri	ies Activity from 1950 - 1	980					
Subterranean Features							
Subterranean Fea	tures		▼				

#### Mining and Ground Stability - Segment A12



#### **Order Details**

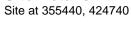
 
 Order Number:
 289775268\_1\_1

 Customer Ref:
 WIE11556-107

 National Grid Reference:
 355160, 424270
 Slice: Site Area (Ha): Plot Buffer (m):

А 61.13 100

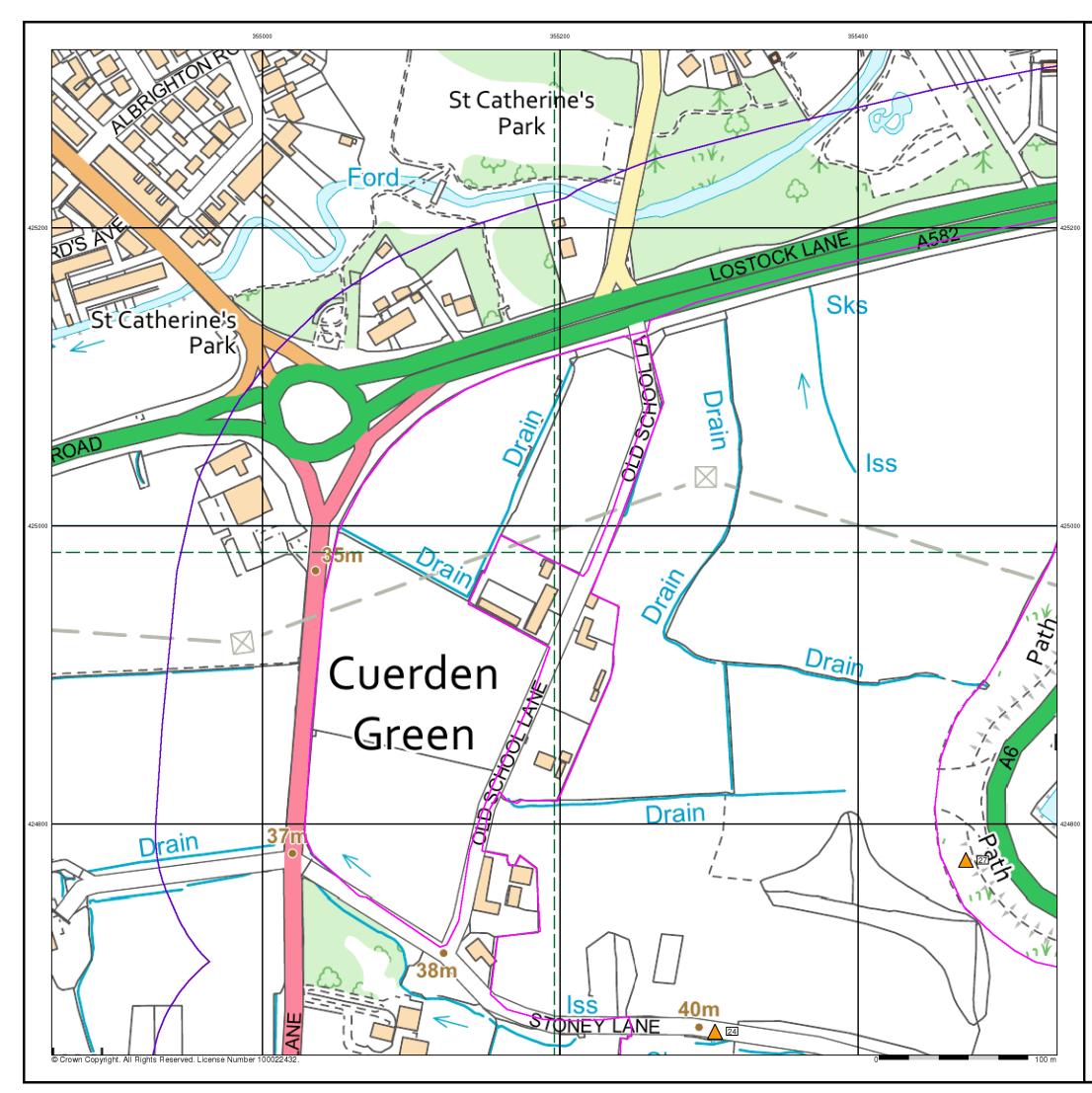
Site Details





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# Beering Reference Point Specified Ste Specified Ste

Extractive Industries Activity from 1893 - 1915

Extractive Industries Activity from 1906 - 1937

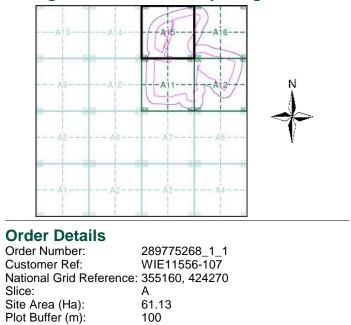
Extractive Industries Activity from 1924 - 1949

Extractive Industries Activity from 1950 - 1980

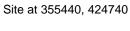
Subterranean Features

Subterranean Features

	Mining and	Ground	Stability	- Seament	A15
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Site Details



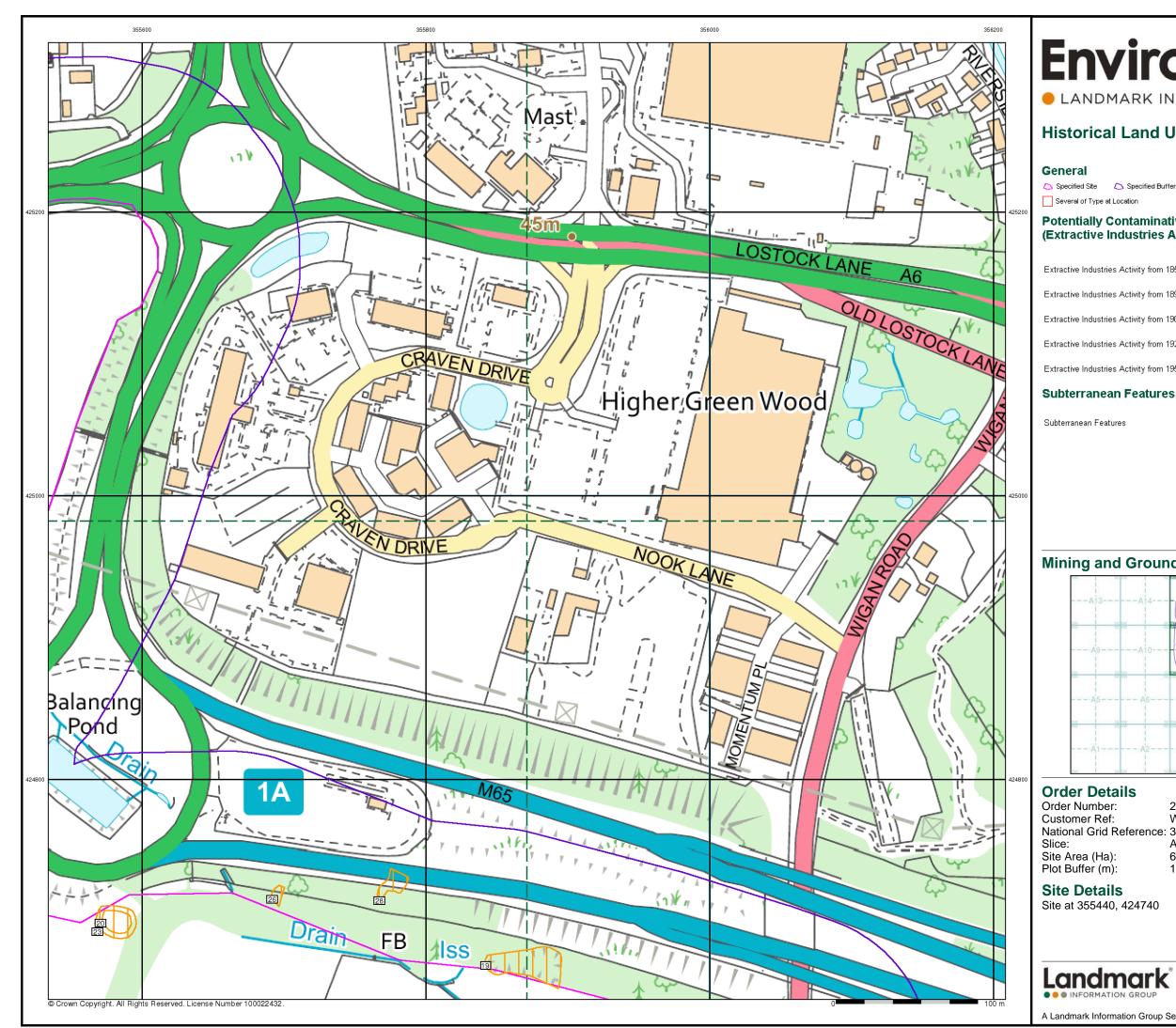


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#### **Envirocheck**<sup>®</sup> LANDMARK INFORMATION GROUP\* Historical Land Use Information (1:2,500) General 🖒 Specified Site 🖒 Specified Buffer(s) 🕺 Bearing Reference Point 🛽 Map ID Several of Type at Location Potentially Contaminative Industrial Uses (Extractive Industries Activity) Polvaa Extractive Industries Activity from 1855 - 1909

Extractive Industries Activity from 1893 - 1915

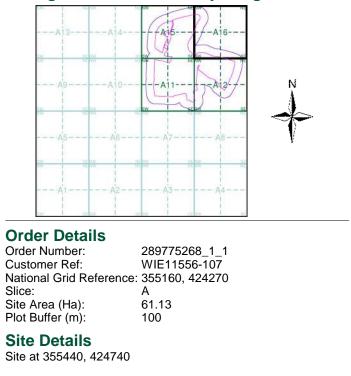
Extractive Industries Activity from 1906 - 1937

Extractive Industries Activity from 1924 - 1949

Extractive Industries Activity from 1950 - 1980

Subterranean Features

Mining and Ground Stability - Segme	ent A16
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# **Envirocheck**<sup>®</sup> LANDMARK INFORMATION GROUP\*

#### Historical Land Use Information (1:10,000)

#### General

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

#### Potentially Contaminative Industrial Uses (Past Land

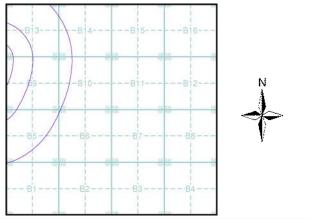
Uses - Wining)	Point	Line	Polygon
Air Shafts	<b>♦</b>		
Disturbed Ground	•		
General Quarrying	•		
Heap, unknown constituents	•		KZ2
Mineral Railway	<b>♦</b>		
Mining and Quarrying General	•		
Mining of Coal & Lignite	<b>♦</b>		
Quarrying of Sand and Clay, Operation of Sand and Gravel Pits	<b>♦</b>		
Historical Land Use	Point	Line	Polygon
Potentially Infilled Land (Non-Water)	۲		
Potentially Infilled Land (Water)	•		
Former Marsh	⊮		

#### Mining Data

Potential Mining Area

BGS Recorded Mineral Site

#### Mining and Ground Stability - Slice B



#### **Order Details**

 
 Order Number:
 289775268\_1\_1

 Customer Ref:
 WIE11556-107

 National Grid Reference:
 356570, 424410
 Slice: Site Area (Ha): Search Buffer (m):

В 61.13 1000

#### Site Details

Site at 355440, 424740

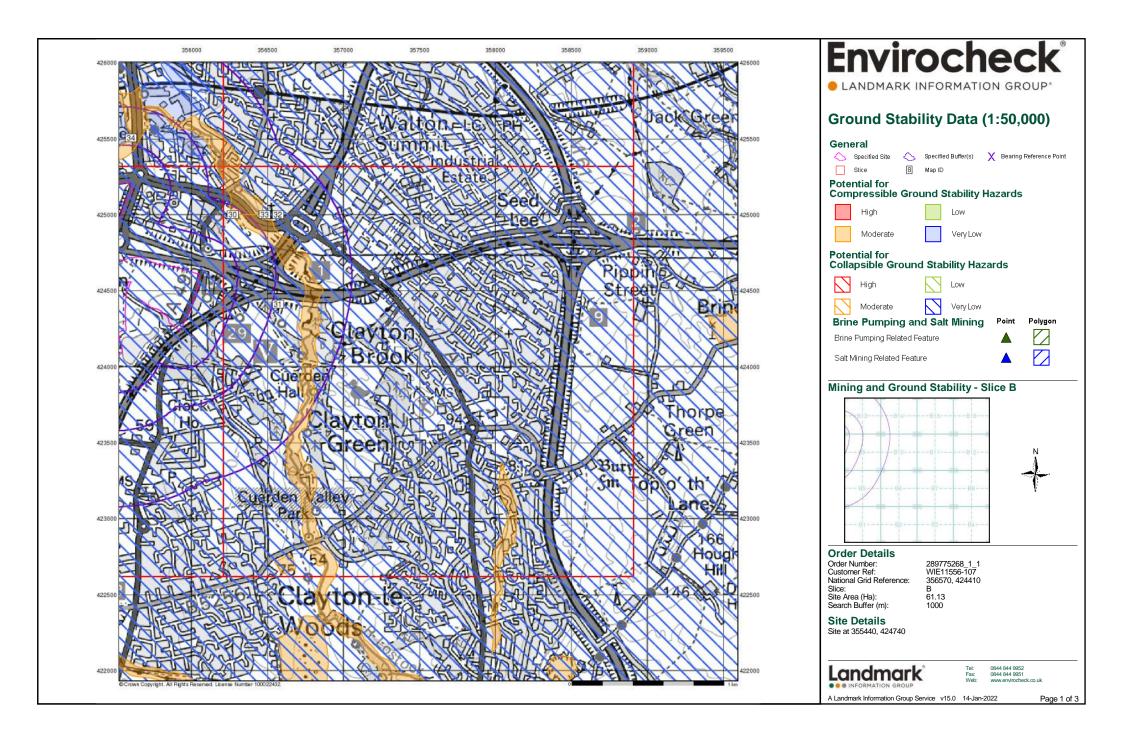


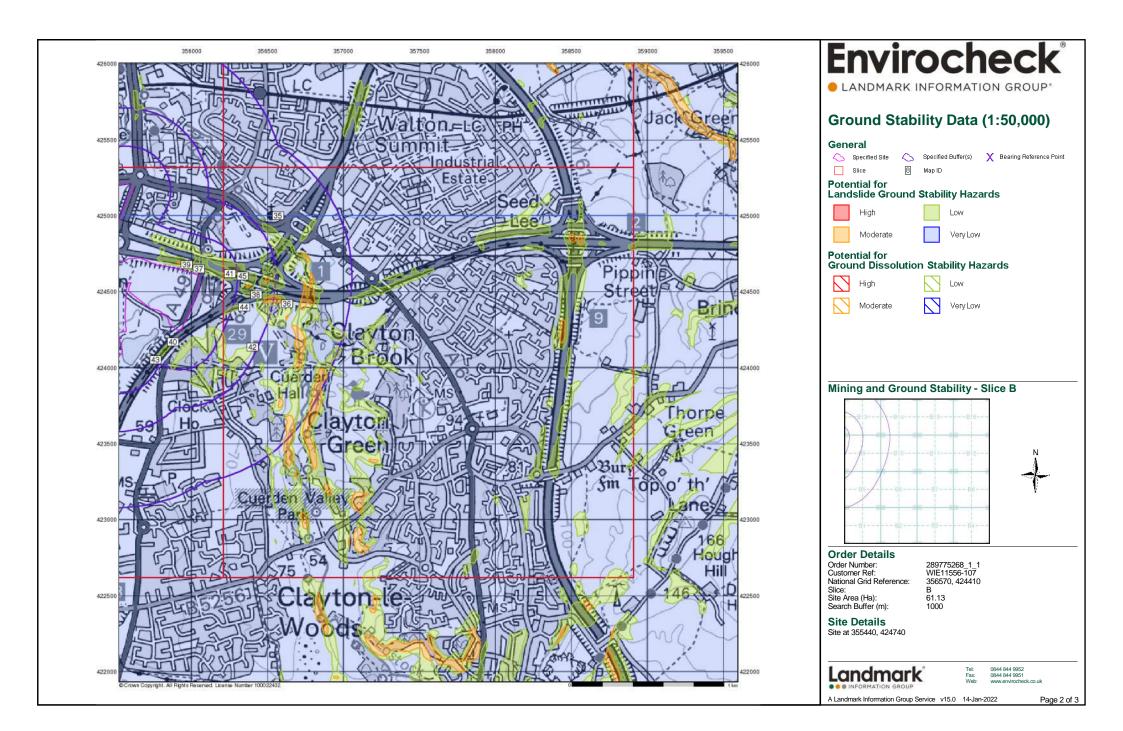


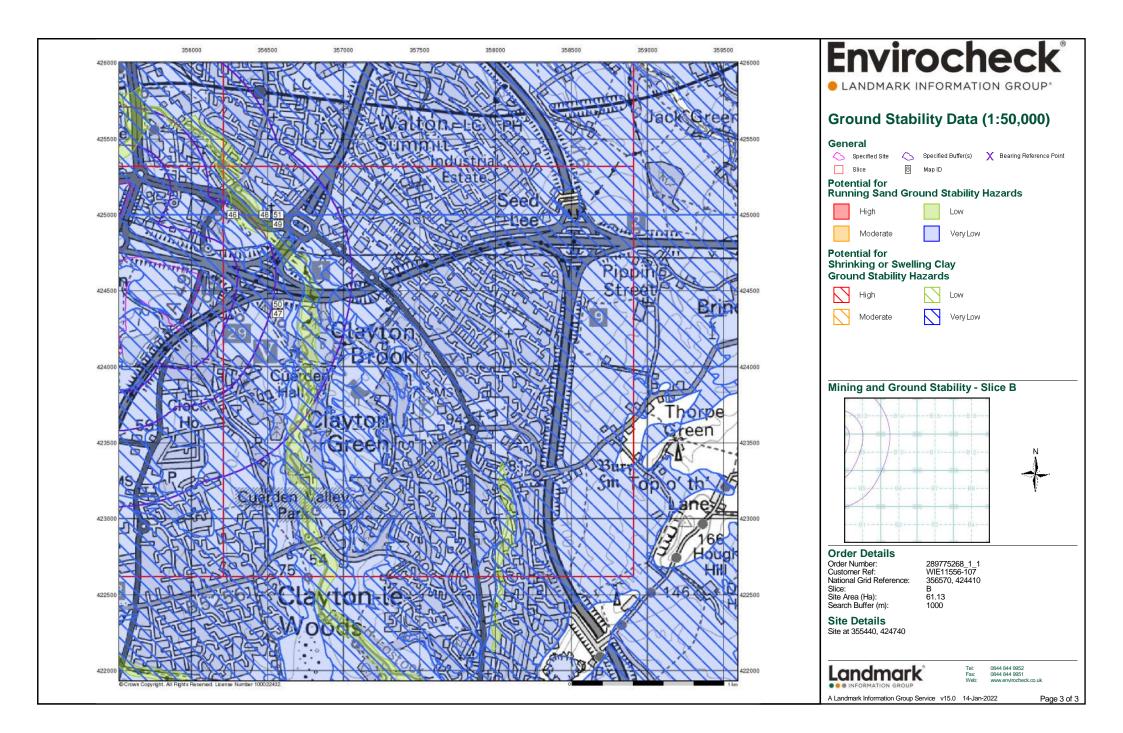
Tel: Fax: Web:

0844 844 9952 0844 844 9951 www.envirocheck.co.uk

Page 1 of 1









## **Envirocheck**<sup>®</sup> Report:

## Mining and Ground Stability Datasheet

#### **Order Details:**

Order Number: 289775268\_1\_1

Customer Reference: WIE11556-107

National Grid Reference: 356570, 424410

Slice: B

Site Area (Ha): 61.13

Search Buffer (m): 1000

Site Details: Site at 355440, 424740

#### **Client Details:**

Mr R Panter Waterman Infrastructure & Environment Ltd Waterman Group 5th Floor 1 Cornwall Street Birmingham West Midlands B3 2DX



Contents

Report Section and Details	Page Number
Summary	-
The Summary section provides an overview of the data contained within the report, detailing or the existence of a data set in relation to the buffer selected. For ease of reference, the report is broken down into 4 sections of data; Mining and Natural Use Information (1:2,500), Historical Land Use Information (1:10,000) and Ground Stability	Cavities Data, Historical Land
Mining and Natural Cavities Data	-
The Mining and Natural Cavities Data section features data sets related to the existence of hazards; and details of naturally formed cavities. Data sets within this section are not plotted, with the exception of BGS Recorded Mineral S which feature on the Historical Land Use Information (1:10,000) map.	
Historical Land Use Information (1:2,500)	-
The Historical Land Use Information (1:2,500) section contains data captured from analysis 1:1,250 and 1:2,500 scale historical Ordnance Survey mapping, identifying areas where, his potentially contaminative. For the purpose of this Envirocheck module, only historical data relating to mining and grouplotted on the corresponding Historical Land Use Information (1:2,500) map. This section a Features data set, which details various man-made and man-used underground spaces obter Britannica society.	storically, the land uses were nd stability has been included and lso includes the Subterranean
·	
Historical Land Use Information (1:10,000)	1
Historical Land Use Information (1:10,000) The Historical Land Use (1:10,000) section covers data captured from the systematic analy 1:10, 560 and 1:10,000 scale historical Ordnance Survey mapping dating back to the mid-1 contaminative past industrial land uses. For the purpose of this Envirocheck module, only data relating to mining and ground stabilit	sis carried out by Landmark of 9th century, identifying potentially
Historical Land Use Information (1:10,000) The Historical Land Use (1:10,000) section covers data captured from the systematic analy 1:10, 560 and 1:10,000 scale historical Ordnance Survey mapping dating back to the mid-1 contaminative past industrial land uses.	sis carried out by Landmark of 9th century, identifying potentially
Historical Land Use Information (1:10,000) The Historical Land Use (1:10,000) section covers data captured from the systematic analy 1:10, 560 and 1:10,000 scale historical Ordnance Survey mapping dating back to the mid-1 contaminative past industrial land uses. For the purpose of this Envirocheck module, only data relating to mining and ground stabilit on the accompanying Historical Land Use Information (1:10,000) map.	sis carried out by Landmark of 9th century, identifying potentially y has been included and plotted <b>3</b> tures to 250m and plotted onto 3 of which Brine Pumping and Salt
Historical Land Use Information (1:10,000)         The Historical Land Use (1:10,000) section covers data captured from the systematic analy         1:10, 560 and 1:10,000 scale historical Ordnance Survey mapping dating back to the mid-1         contaminative past industrial land uses.         For the purpose of this Envirocheck module, only data relating to mining and ground stabilit         on the accompanying Historical Land Use Information (1:10,000) map.         Ground Stability Data (1:50,000)         The Ground Stability (1:50,000) section includes the BGS Geosure data suite, reporting feaseparate maps. Also reported is brine subsidence, brine mining and salt mining data sets, or Mining Related Features are plotted, and subsidence insurance claims and insurance investored in the subsidence insurance investored in the subsidence insurance intervention in the subsidenc	sis carried out by Landmark of 9th century, identifying potentially y has been included and plotted <b>3</b> tures to 250m and plotted onto 3 of which Brine Pumping and Salt
Historical Land Use Information (1:10,000) The Historical Land Use (1:10,000) section covers data captured from the systematic analy 1:10, 560 and 1:10,000 scale historical Ordnance Survey mapping dating back to the mid-1 contaminative past industrial land uses. For the purpose of this Envirocheck module, only data relating to mining and ground stabilit on the accompanying Historical Land Use Information (1:10,000) map. <b>Ground Stability Data (1:50,000)</b> The Ground Stability (1:50,000) section includes the BGS Geosure data suite, reporting fea separate maps. Also reported is brine subsidence, brine mining and salt mining data sets, of Mining Related Features are plotted, and subsidence insurance claims and insurance invest plotted.	sis carried out by Landmark of 9th century, identifying potentially y has been included and plotted 3 tures to 250m and plotted onto 3 of which Brine Pumping and Salt tigations data, which is not 5
Historical Land Use Information (1:10,000)         The Historical Land Use (1:10,000) section covers data captured from the systematic analy         1:10, 560 and 1:10,000 scale historical Ordnance Survey mapping dating back to the mid-1         contaminative past industrial land uses.         For the purpose of this Envirocheck module, only data relating to mining and ground stabilit         on the accompanying Historical Land Use Information (1:10,000) map.         Ground Stability Data (1:50,000)         The Ground Stability (1:50,000) section includes the BGS Geosure data suite, reporting feat         separate maps. Also reported is brine subsidence, brine mining and salt mining data sets, or         Mining Related Features are plotted, and subsidence insurance claims and insurance invest         plotted.         Historical Map List         The Historical Map List section details the historical mapping that has been analysed for yo	sis carried out by Landmark of 9th century, identifying potentially y has been included and plotted 3 tures to 250m and plotted onto 3 of which Brine Pumping and Salt tigations data, which is not 5
Historical Land Use Information (1:10,000)         The Historical Land Use (1:10,000) section covers data captured from the systematic analy         1:10, 560 and 1:10,000 scale historical Ordnance Survey mapping dating back to the mid-1         contaminative past industrial land uses.         For the purpose of this Envirocheck module, only data relating to mining and ground stability         on the accompanying Historical Land Use Information (1:10,000) map.         Ground Stability Data (1:50,000)         The Ground Stability (1:50,000) section includes the BGS Geosure data suite, reporting feaseparate maps. Also reported is brine subsidence, brine mining and salt mining data sets, or Mining Related Features are plotted, and subsidence insurance claims and insurance invest plotted.         Historical Map List         The Historical Map List section details the historical mapping that has been analysed for yo Land Use Information sections.	sis carried out by Landmark of 9th century, identifying potentially y has been included and plotted 3 tures to 250m and plotted onto 3 of which Brine Pumping and Salt tigations data, which is not 5 ur site, in relation to the Historica

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The brine subsidence data relating to the Driotwich area as provided in this report is derived from JPB studies and physical monitoring undertaken annually over more than 35 years. For more detailed interpretation contact enquiries@jpb.co.uk. JPB retain the copyright and intellectual rights to this data and accept no liability for any loss or damage, including in direct or consequential loss, arising from the use of this data.

The Mining Instability data was obtained on licence from Ove Arup & Partners Limited (for further information, contact mining.review@arup.com). No reproduction or further use of such Data is to be made without the prior written consent of Ove Arup & Partners Limited. The supplied Mining Instability data is derived from publicly available records and other third party sources and neither Ove Arup & Partners nor Landmark warrant the accuracy or completeness of such information or data.

#### Report Version v53.0

LANDMARK INFORMATION GROUP\*

### Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m
Mining and Natural Cavities Data					
BGS Recorded Mineral Sites					
Coal Mining Affected Areas			n/a	n/a	n/a
Man Made Mining Cavities					
Mining Instability			n/a	n/a	n/a
Natural Cavities					
Non Coal Mining Areas of Great Britain				n/a	n/a
Potential Mining Areas					
Historical Land Use Information (1:2,500)					
Extractive Industries or Potential Excavations from 1855-1909 (100m)				n/a	n/a
Extractive Industries or Potential Excavations from 1893-1915 (100m)				n/a	n/a
Extractive Industries or Potential Excavations from 1906-1937 (100m)	<u> </u>			n/a	n/a
Extractive Industries or Potential Excavations from 1924-1949 (100m)				n/a	n/a
Extractive Industries or Potential Excavations from 1950-1980 (100m)				n/a	n/a
Subterranean Features (100m)				n/a	n/a
Historical Land Use Information (1:10,000)					
Air Shafts					
Disturbed Ground					
General Quarrying					
Heap, unknown constituents					
Mineral Railway	pg 1				1
Mining & quarrying general					
Mining of coal & lignite					
Quarrying of sand & clay, operation of sand & gravel pits	pg 1				2
Former Marshes					
Potentially Infilled Land (Non-Water)	pg 1				2
Potentially Infilled Land (Water)	pg 1		1	4	19
Ground Stability Data (1:50,000)					
CBSCB Compensation District			n/a	n/a	n/a
Brine Pumping Related Features					
Brine Subsidence Solution Area					
Potential for Collapsible Ground Stability Hazards	pg 3	Yes	Yes	n/a	n/a
Potential for Compressible Ground Stability Hazards	pg 3	Yes	Yes	n/a	n/a
Potential for Ground Dissolution Stability Hazards	pg 3	Yes		n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 3	Yes	Yes	n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 4	Yes	Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 4	Yes		n/a	n/a
Salt Mining Related Features					

Order Number: 289775268\_1\_1 Date: 14-Jan-2022



Report Version v53.0

Summary

### Historical Land Use Information (1:10,000)

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Mineral Railway				
1	Use: Not Supplied Date of Mapping: 1848	B14NW (NE)	838	-	357033 425087
2	Quarrying of sand & clay, operation of sand & gravel pits         Use:       Not Supplied         Date of Mapping:       1848	B13NW (N)	539	-	356233 425242
3	Quarrying of sand & clay, operation of sand & gravel pits         Use:       Not Supplied         Date of Mapping:       1848	B14SW (NE)	834	-	356887 424649
4	Potentially Infilled Land (Non-Water)         Use:       Unknown Filled Ground (Pit, quarry etc)         Date of Mapping:       1988	B13NW (N)	539	-	356233 425242
5	Potentially Infilled Land (Non-Water)         Use:       Unknown Filled Ground (Pit, quarry etc)         Date of Mapping:       1992	B14SW (NE)	834	-	356887 424649
6	Potentially Infilled Land (Water)         Use:       Unknown Filled Ground (Pond, marsh, river, stream, dock etc)         Date of Mapping:       1914	B9NW (W)	228	-	356249 424414
7	Potentially Infilled Land (Water)           Use:         Unknown Filled Ground (Pond, marsh, river, stream, dock etc)           Date of Mapping:         1955	B9NW (W)	254	-	356264 424372
8	Potentially Infilled Land (Water)         Use:       Unknown Filled Ground (Pond, marsh, river, stream, dock etc)         Date of Mapping:       1955	B13SW (NW)	290	-	356315 424731
9	Potentially Infilled Land (Water)           Use:         Unknown Filled Ground (Pond, marsh, river, stream, dock etc)           Date of Mapping:         1955	B5NW (SW)	443	-	356222 423911
10	Potentially Infilled Land (Water)         Use:       Unknown Filled Ground (Pond, marsh, river, stream, dock etc)         Date of Mapping:       1955	B9SW (S)	490	-	356448 424105
11	Potentially Infilled Land (Water)         Use:       Unknown Filled Ground (Pond, marsh, river, stream, dock etc)         Date of Mapping:       1955	B13SE (N)	533	-	356571 424833
12	Potentially Infilled Land (Water)         Use:       Unknown Filled Ground (Pond, marsh, river, stream, dock etc)         Date of Mapping:       1894	B9NE (S)	560	-	356583 424373
13	Potentially Infilled Land (Water)           Use:         Unknown Filled Ground (Pond, marsh, river, stream, dock etc)           Date of Mapping:         1956	B13NW (N)	568	-	356431 425031
14	Potentially Infilled Land (Water)         Use:       Unknown Filled Ground (Pond, marsh, river, stream, dock etc)         Date of Mapping:       1955	B13SE (N)	572	-	356665 424756
15	Potentially Infilled Land (Water)           Use:         Unknown Filled Ground (Pond, marsh, river, stream, dock etc)           Date of Mapping:         1956	B13NW (N)	574	-	356311 425118
16	Potentially Infilled Land (Water)           Use:         Unknown Filled Ground (Pond, marsh, river, stream, dock etc)           Date of Mapping:         1955	B13SE (N)	602	-	356666 424706
17	Potentially Infilled Land (Water)           Use:         Unknown Filled Ground (Pond, marsh, river, stream, dock etc)           Date of Mapping:         1955	B5SW (S)	726	-	356246 423588
18	Potentially Infilled Land (Water)         Use:       Unknown Filled Ground (Pond, marsh, river, stream, dock etc)         Date of Mapping:       1912	B5SW (S)	735	-	356314 423616
19	Potentially Infilled Land (Water)           Use:         Unknown Filled Ground (Pond, marsh, river, stream, dock etc)           Date of Mapping:         1848	B5NE (S)	753	-	356562 423840
20	Potentially Infilled Land (Water)           Use:         Unknown Filled Ground (Pond, marsh, river, stream, dock etc)           Date of Mapping:         1955	B5SW (S)	780	-	356412 423630
21	Potentially Infilled Land (Water)         Use:       Unknown Filled Ground (Pond, marsh, river, stream, dock etc)         Date of Mapping:       1955	B13SE (NE)	818	-	356853 424784

rpr\_ec\_datasheet v53.0 A Landmark Information

### Historical Land Use Information (1:10,000)

Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potentially Infilled	Land (Water)				
22	Use: Date of Mapping:	Unknown Filled Ground (Pond, marsh, river, stream, dock etc) 1956	B13NE (NE)	884	-	356837 425017
	Potentially Infilled	Land (Water)				
23	Use: Date of Mapping:	Unknown Filled Ground (Pond, marsh, river, stream, dock etc) 1956	B13NE (N)	886	-	356827 425039
	Potentially Infilled	Land (Water)				
24	Use: Date of Mapping:	Unknown Filled Ground (Pond, marsh, river, stream, dock etc) 1894	B13NE (N)	915	-	356630 425316
	Potentially Infilled	Land (Water)				
25	Use: Date of Mapping:	Unknown Filled Ground (Pond, marsh, river, stream, dock etc) 1955	B10NW (NE)	925	-	356979 424620
	Potentially Infilled	Land (Water)				
26	Use: Date of Mapping:	Unknown Filled Ground (Pond, marsh, river, stream, dock etc) 1956	B13NE (N)	930	-	356686 425288
	Potentially Infilled	Land (Water)				
27	Use: Date of Mapping:	Unknown Filled Ground (Pond, marsh, river, stream, dock etc) 1955	B14SW (NE)	949	-	357036 424869
	Potentially Infilled	Land (Water)				
28	Use: Date of Mapping:	Unknown Filled Ground (Pond, marsh, river, stream, dock etc) 1955	B10SW (SE)	976	-	356951 424152
	Potentially Infilled	Land (Water)				
29	Use: Date of Mapping:	Unknown Filled Ground (Pond, marsh, river, stream, dock etc) 1956	B14NW (NE)	989	-	356947 425031

### Ground Stability Data (1:50,000)

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	CBSCB Compensation District				
	The site does not fall within the brine compensation area.				
	Brine Subsidence Solution Area				
	The site does not fall within the brine subsidence solution area.				
	Potential for Collapsible Ground Stability Hazards				
30	Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	B13NW (NW)	0	2	356270 425000
	Potential for Collapsible Ground Stability Hazards				
31	Hazard Potential: Very Low	B9NE	0	2	356570
	Source: British Geological Survey, National Geoscience Information Service	(E)			424412
32	Potential for Collapsible Ground Stability Hazards           Hazard Potential:         Very Low           Source:         British Geological Survey, National Geoscience Information Service	B13NE (N)	122	2	356570 425000
	Potential for Collapsible Ground Stability Hazards	(11)			420000
	Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	B13NW (N)	15	2	356482 425000
	Potential for Compressible Ground Stability Hazards				
33	Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	B13NW (N)	15	2	356482 425000
34	Potential for Compressible Ground Stability Hazards Hazard Potential: Very Low	(NW)	213	2	355602
	Source: British Geological Survey, National Geoscience Information Service				425505
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard	B13NW	0	2	356270
	Source: British Geological Survey, National Geoscience Information Service	(NW)	Ū	2	425000
	Potential for Compressible Ground Stability Hazards				
	Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	B9NE (E)	0	2	356570 424412
	Potential for Compressible Ground Stability Hazards	(Ľ)			424412
	Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	B13NE (N)	122	2	356570 425000
	Potential for Ground Dissolution Stability Hazards           Hazard Potential:         No Hazard           Source:         British Geological Survey, National Geoscience Information Service	B9NE (E)	0	2	356570 424412
	Potential for Ground Dissolution Stability Hazards           Hazard Potential:         No Hazard           Source:         British Geological Survey, National Geoscience Information Service	B13NE (N)	0	2	356570 425000
35	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low	B13NE	0	2	356570
	Source: British Geological Survey, National Geoscience Information Service	(N)			425000
36	Potential for Landslide Ground Stability Hazards           Hazard Potential:         Very Low           Source:         British Geological Survey, National Geoscience Information Service	B9NE (E)	0	2	356628 424422
	Potential for Landslide Ground Stability Hazards				
37	Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	(NW)	11	2	356046 424650
	Potential for Landslide Ground Stability Hazards				724030
38	Hazard Potential: Low	B9NW	35	2	356424
	Source: British Geological Survey, National Geoscience Information Service	(NW)			424479
	Potential for Landslide Ground Stability Hazards				
39	Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	(NW)	39	2	355967 424679
40	Potential for Landslide Ground Stability Hazards Hazard Potential: Low	(W)	83	2	355878
	Source: British Geological Survey, National Geoscience Information Service				424169
41	Potential for Landslide Ground Stability Hazards           Hazard Potential:         Very Low           Source:         British Geological Survey, National Geoscience Information Service	B9NW (NW)	83	2	356252 424619
42	Potential for Landslide Ground Stability Hazards           Hazard Potential:         Low           Source:         British Geological Survey, National Geoscience Information Service	B9SW (SW)	88	2	356401 424134

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### Ground Stability Data (1:50,000)

Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Land	slide Ground Stability Hazards				
43	Hazard Potential: Source:	Low British Geological Survey, National Geoscience Information Service	(SW)	212	2	355763 424050
	Potential for Land	slide Ground Stability Hazards				
44	Hazard Potential: Source:	Low British Geological Survey, National Geoscience Information Service	B9NW (W)	216	2	356347 424399
	Potential for Land	slide Ground Stability Hazards				
45	Hazard Potential: Source:	Very Low British Geological Survey, National Geoscience Information Service	B9NW (NW)	216	2	356294 424604
	Potential for Runn	ing Sand Ground Stability Hazards				
46	Hazard Potential: Source:	Very Low British Geological Survey, National Geoscience Information Service	B13NW (NW)	0	2	356270 425000
	Potential for Runn	ing Sand Ground Stability Hazards				
47	Hazard Potential: Source:	Very Low British Geological Survey, National Geoscience Information Service	B9NE (E)	0	2	356570 424412
	Potential for Runn	ing Sand Ground Stability Hazards				
48	Hazard Potential: Source:	Low British Geological Survey, National Geoscience Information Service	B13NW (N)	15	2	356482 425000
	Potential for Runn	ing Sand Ground Stability Hazards				
49	Hazard Potential: Source:	Very Low British Geological Survey, National Geoscience Information Service	B13NE (N)	122	2	356570 425000
	Potential for Shrin	king or Swelling Clay Ground Stability Hazards				
50	Hazard Potential: Source:	Very Low British Geological Survey, National Geoscience Information Service	B9NE (E)	0	2	356570 424412
	Potential for Shrin	king or Swelling Clay Ground Stability Hazards				
51	Hazard Potential: Source:	Very Low British Geological Survey, National Geoscience Information Service	B13NE (N)	0	2	356570 425000
	Potential for Shrin	king or Swelling Clay Ground Stability Hazards				
	Hazard Potential: Source:	No Hazard British Geological Survey, National Geoscience Information Service	(W)	0	2	355835 424355



#### No Historical Land Use information available.

#### The following mapping has been analysed for Historical Land Use Information (1:10,000):

1:10,560	Mapsheet	Published Date
Lancashire And Furness	069_00	1848
Lancashire And Furness	069_NE	1894
Lancashire And Furness	069_SE	1894
Lancashire And Furness	069_SE	1912
Lancashire And Furness	069_NE	1914
Lancashire And Furness	069_NE	1931
Lancashire And Furness	069_SE	1931
Ordnance Survey Plan	SD52SE	1955
Ordnance Survey Plan	SD52NE	1956
1:10,000	Mapsheet	Published Date
Ordnance Survey Plan	SD52NE	1988
Ordnance Survey Plan	SD52SE	1992

**Data Currency** 

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Mining and Cavities Data	Version	Update Cycle
BGS Recorded Mineral Sites		
British Geological Survey - National Geoscience Information Service	November 2021	Bi-Annually
Coal Mining Affected Areas		
The Coal Authority - Property Searches	March 2014	Annual Rolling Update
Man Made Mining Cavities		
Stantec UK Ltd	December 2021	Bi-Annually
Mining Instability		
Ove Arup & Partners	June 1998	Not Applicable
Natural Cavities		
Stantec UK Ltd	December 2021	Bi-Annually
Non Coal Mining Areas of Great Britain		
British Geological Survey - National Geoscience Information Service	May 2015	Not Applicable
Historical Land Use Information (1:2,500)	Version	Update Cycle
Subterranean Features		
Landmark Information Group Limited	February 2020	Bi-Annually
Ground Stability Data (1:50,000)	Version	Update Cycle
CBSCB Compensation District		
Cheshire Brine Subsidence Compensation Board (CBSCB)	August 2011	
Cheshire Brine Subsidence Compensation Board (CBSCB)	November 2020	As notified
Potential for Collapsible Ground Stability Hazards		
British Geological Survey - National Geoscience Information Service	April 2020	Annually
Potential for Compressible Ground Stability Hazards		
British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Ground Dissolution Stability Hazards		
British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Landslide Ground Stability Hazards		
British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Running Sand Ground Stability Hazards		
British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Shrinking or Swelling Clay Ground Stability Hazards		
British Geological Survey - National Geoscience Information Service	January 2019	Annually
Brine Subsidence Solution Area		
Johnson Poole & Bloomer	December 2020	Annual Rolling Update



A selection of organisations who provide data within this report

Data Supplier	Data Supplier Logo
Ordnance Survey	Map data
British Geological Survey	British Geological Survey
The Coal Authority	The Coal Authority
Ove Arup	ARUP
Stantec UK Ltd	Stantec
Wardell Armstrong	your earth our world
Johnson Poole & Bloomer	IPB

LANDMARK INFORMATION GROUP\*

### **Useful Contacts**

Contact	Name and Address	Contact Details
1	Ove Arup & Partners Central Square, Forth Street, Newcastle upon Tyne, Tyne and Wear, NE1 3PL	Telephone: 0191 261 6080 Fax: 0191 261 7879
2	British Geological Survey - Enquiry Service British Geological Survey, Environmental Science Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
-	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



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#### Historical Land Use Information (1:10,000)

#### General

🛆 Specified Site 🔿 Specified Buffer(s) 🕺 Bearing Reference Point 🛽 🛽 Map ID Several of Type at Location

### Potentially Contaminative Industrial Uses (Past Land Uses - Mining)

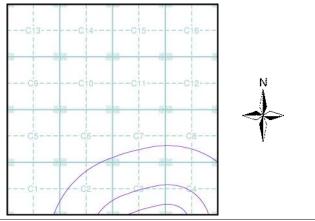
uses - wiining)	Point	Line	Polygon
Air Shafts	$\diamond$		
Disturbed Ground	•		
General Quarrying	•		
Heap, unknown constituents	•		EZ2
Mineral Railway	<b>♦</b>		
Mining and Quarrying General	•		
Mining of Coal & Lignite	<b>♦</b>		
Quarrying of Sand and Clay, Operation of Sand and Gravel Pits	<b>♦</b>		
Historical Land Use	Point	Line	Polygon
Potentially Infilled Land (Non-Water)	۲		
Potentially Infilled Land (Water)	•		
Former Marsh	⊮		

#### Mining Data

Potential Mining Area

BGS Recorded Mineral Site

#### Mining and Ground Stability - Slice C



#### **Order Details**

 
 Order Number:
 289775268\_1\_1

 Customer Ref:
 WIE11556-107

 National Grid Reference:
 355290, 425700
 Slice: Site Area (Ha): Search Buffer (m):

С 61.13 1000

#### Site Details

Site at 355440, 424740

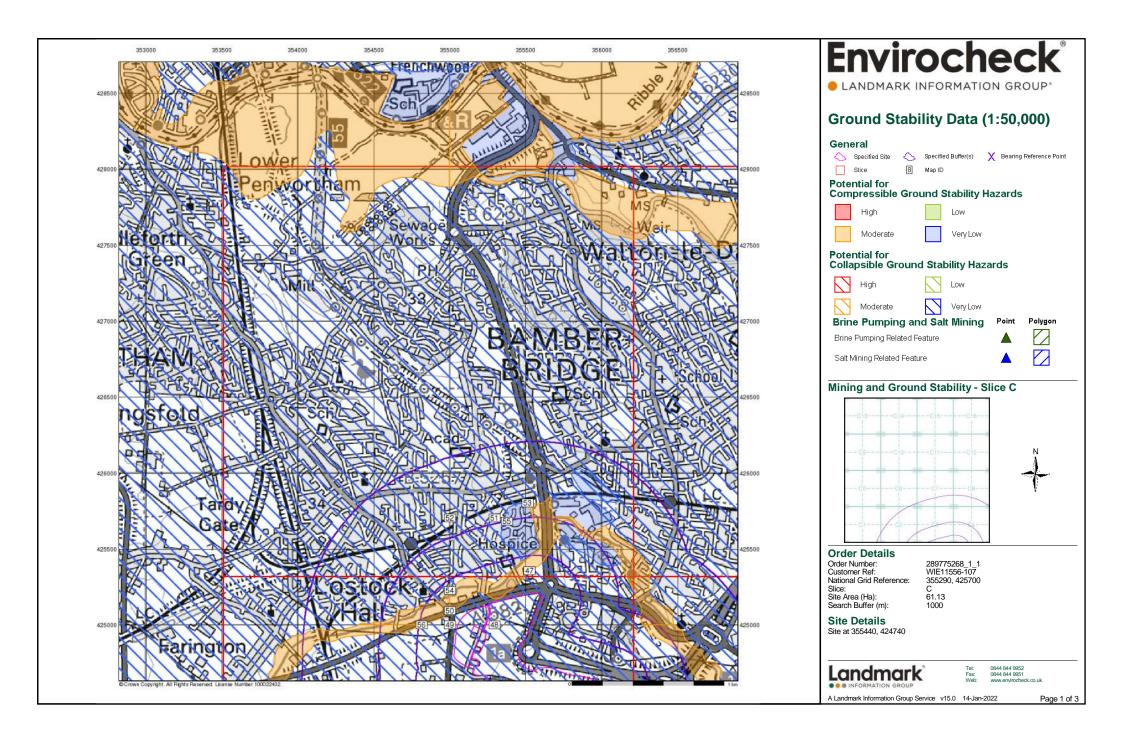


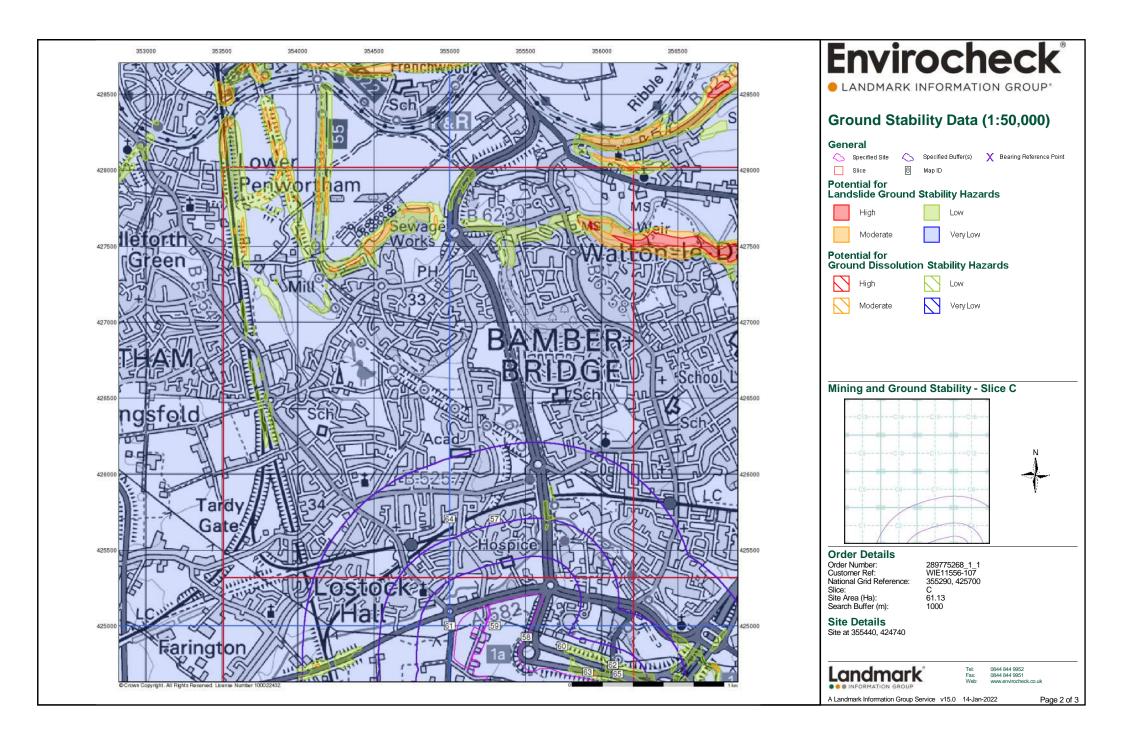


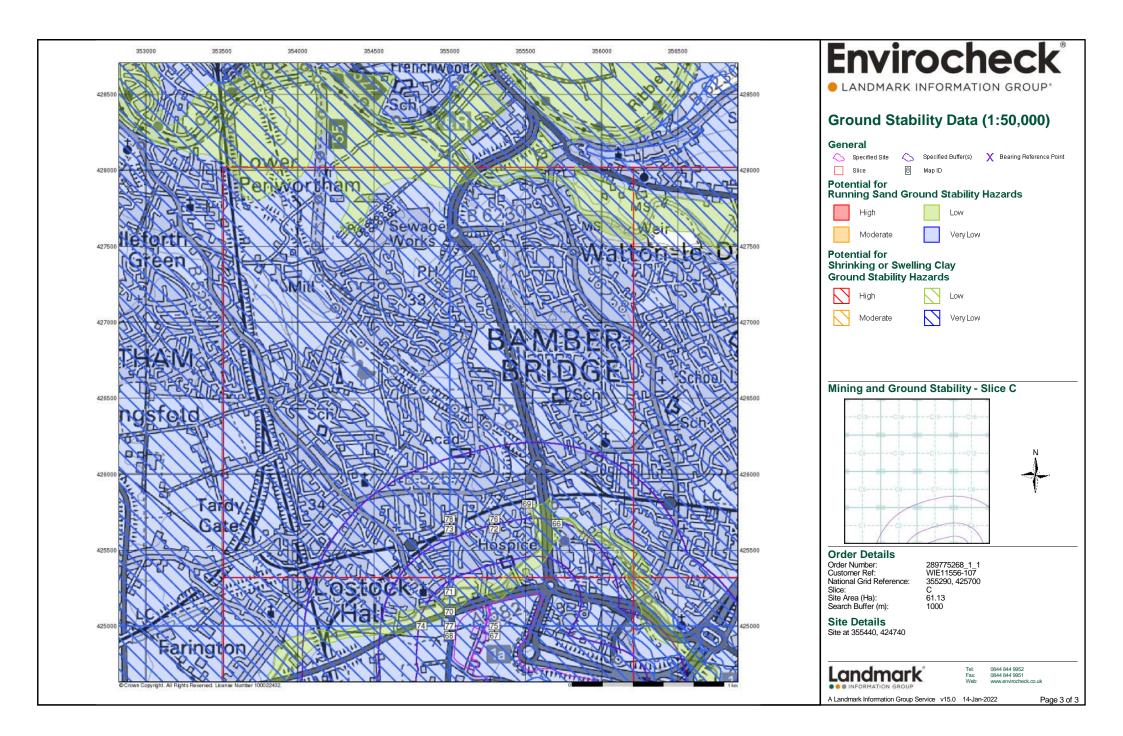
Tel: Fax: Web:

0844 844 9952 0844 844 9951 www.envirocheck.co.uk

Page 1 of 1









### **Envirocheck**<sup>®</sup> Report:

### Mining and Ground Stability Datasheet

#### **Order Details:**

Order Number: 289775268\_1\_1

Customer Reference: WIE11556-107

National Grid Reference: 355290, 425700

Slice: C

Site Area (Ha): 61.13

Search Buffer (m): 1000

Site Details: Site at 355440, 424740

#### **Client Details:**

Mr R Panter Waterman Infrastructure & Environment Ltd Waterman Group 5th Floor 1 Cornwall Street Birmingham West Midlands B3 2DX



### Envirocheck LANDMARK INFORMATION GROUP\*

#### Contents

<b>Report Section and Details</b>	Page Number
Summary	-
The Summary section provides an overview of the data contained within the report, detailing the or the existence of a data set in relation to the buffer selected. For ease of reference, the report is broken down into 4 sections of data; Mining and Natural Ca Use Information (1:2,500), Historical Land Use Information (1:10,000) and Ground Stability Da	avities Data, Historical Land
Mining and Natural Cavities Data	1
The Mining and Natural Cavities Data section features data sets related to the existence of mir hazards; and details of naturally formed cavities. Data sets within this section are not plotted, with the exception of BGS Recorded Mineral Sites which feature on the Historical Land Use Information (1:10,000) map.	0
Historical Land Use Information (1:2,500)	-
The Historical Land Use Information (1:2,500) section contains data captured from analysis ca 1:1,250 and 1:2,500 scale historical Ordnance Survey mapping, identifying areas where, histor potentially contaminative. For the purpose of this Envirocheck module, only historical data relating to mining and ground plotted on the corresponding Historical Land Use Information (1:2,500) map. This section also Features data set, which details various man-made and man-used underground spaces obtain Britannica society.	ically, the land uses were stability has been included and includes the Subterranean
Historical Land Use Information (1:10,000)	2
The Historical Land Use (1:10,000) section covers data captured from the systematic analysis 1:10, 560 and 1:10,000 scale historical Ordnance Survey mapping dating back to the mid-19th contaminative past industrial land uses. For the purpose of this Envirocheck module, only data relating to mining and ground stability h	century, identifying potentially
on the accompanying Historical Land Use Information (1:10,000) map. Ground Stability Data (1:50,000)	5
on the accompanying Historical Land Use Information (1:10,000) map.	5 es to 250m and plotted onto 3 hich Brine Pumping and Salt
on the accompanying Historical Land Use Information (1:10,000) map. <b>Ground Stability Data (1:50,000)</b> The Ground Stability (1:50,000) section includes the BGS Geosure data suite, reporting features separate maps. Also reported is brine subsidence, brine mining and salt mining data sets, of w Mining Related Features are plotted, and subsidence insurance claims and insurance investigation	5 es to 250m and plotted onto 3 hich Brine Pumping and Salt
on the accompanying Historical Land Use Information (1:10,000) map. <b>Ground Stability Data (1:50,000)</b> The Ground Stability (1:50,000) section includes the BGS Geosure data suite, reporting feature separate maps. Also reported is brine subsidence, brine mining and salt mining data sets, of w Mining Related Features are plotted, and subsidence insurance claims and insurance investiga plotted.	5 es to 250m and plotted onto 3 hich Brine Pumping and Salt ations data, which is not 8
on the accompanying Historical Land Use Information (1:10,000) map. <b>Ground Stability Data (1:50,000)</b> The Ground Stability (1:50,000) section includes the BGS Geosure data suite, reporting feature separate maps. Also reported is brine subsidence, brine mining and salt mining data sets, of w Mining Related Features are plotted, and subsidence insurance claims and insurance investiga plotted. <b>Historical Map List</b> The Historical Map List section details the historical mapping that has been analysed for your s	5 es to 250m and plotted onto 3 hich Brine Pumping and Salt ations data, which is not 8
on the accompanying Historical Land Use Information (1:10,000) map. Ground Stability Data (1:50,000) The Ground Stability (1:50,000) section includes the BGS Geosure data suite, reporting feature separate maps. Also reported is brine subsidence, brine mining and salt mining data sets, of w Mining Related Features are plotted, and subsidence insurance claims and insurance investige plotted. Historical Map List The Historical Map List section details the historical mapping that has been analysed for your s Land Use Information sections.	5 es to 250m and plotted onto 3 hich Brine Pumping and Salt ations data, which is not 8 site, in relation to the Historical

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The brine subsidence data relating to the Driotwich area as provided in this report is derived from JPB studies and physical monitoring undertaken annually over more than 35 years. For more detailed interpretation contact enquiries@jpb.co.uk. JPB retain the copyright and intellectual rights to this data and accept no liability for any loss or damage, including in direct or consequential loss, arising from the use of this data.

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#### Report Version v53.0

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### Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000
Mining and Natural Cavities Data					
BGS Recorded Mineral Sites	pg 1				2
Coal Mining Affected Areas			n/a	n/a	n/a
Man Made Mining Cavities					
Mining Instability			n/a	n/a	n/a
Natural Cavities					
Non Coal Mining Areas of Great Britain				n/a	n/a
Potential Mining Areas					
Historical Land Use Information (1:2,500)					
Extractive Industries or Potential Excavations from 1855-1909 (100m)				n/a	n/a
Extractive Industries or Potential Excavations from 1893-1915 (100m)				n/a	n/a
Extractive Industries or Potential Excavations from 1906-1937 (100m)				n/a	n/a
Extractive Industries or Potential Excavations from 1924-1949 (100m)				n/a	n/a
Extractive Industries or Potential Excavations from 1950-1980 (100m)				n/a	n/a
Subterranean Features (100m)				n/a	n/a
Historical Land Use Information (1:10,000)					
Air Shafts					
Disturbed Ground					
General Quarrying					
Heap, unknown constituents					
Mineral Railway	pg 2				1
Mining & quarrying general					
Mining of coal & lignite					
Quarrying of sand & clay, operation of sand & gravel pits	pg 2				1
Former Marshes					
Potentially Infilled Land (Non-Water)	pg 2				2
Potentially Infilled Land (Water)	pg 2		5	9	26
Ground Stability Data (1:50,000)					
CBSCB Compensation District			n/a	n/a	n/a
Brine Pumping Related Features					
Brine Subsidence Solution Area					
Potential for Collapsible Ground Stability Hazards	pg 5	Yes	Yes	n/a	n/a
Potential for Compressible Ground Stability Hazards	pg 5	Yes	Yes	n/a	n/a
Potential for Ground Dissolution Stability Hazards	pg 6	Yes	Yes	n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 6	Yes	Yes	n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 6	Yes	Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 7	Yes	Yes	n/a	n/a
Salt Mining Related Features					

Order Number: 289775268\_1\_1 Date: 14-Jan-2022



Report Version v53.0

Summary

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#### **Mining and Natural Cavities Data**

Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Recorded Mine	eral Sites				
1	Operator Location: Periodic Type: Geology: Commodity:	Iron Gate Farm Clay Pit Bamber Bridge, Lancashire British Geological Survey, National Geoscience Information Service 93410 Opencast <b>Ceased</b> Unknown Operator Not Supplied Triassic Sidmouth Mudstone Formation Common Clay and Shale Located by supplier to within 10m	C4NW (NE)	660	1	355551 425869
	BGS Recorded Mine	eral Sites				
2	Operator Location: Periodic Type: Geology: Commodity:	Farington Lostock Hall, Bamber Bridge, Lancashire British Geological Survey, National Geoscience Information Service 93411 Opencast <b>Ceased</b> Unknown Operator Not Supplied Triassic Sidmouth Mudstone Formation Common Clay and Shale Located by supplier to within 10m	C2SW (W)	963	1	354201 425449
	Coal Mining Affecte	d Areas				
	In an area which may	not be affected by coal mining				
	Non Coal Mining Are	eas of Great Britain				
	No Hazard					

### Historical Land Use Information (1:10,000)

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Mineral Railway				
3	Use: Not Supplied Date of Mapping: 1848	C8SW (NE)	838	-	355844 426112
4	Quarrying of sand & clay, operation of sand & gravel pits         Use:       Not Supplied         Date of Mapping:       1894	C3NE (NE)	659	-	355516 425867
5	Use:     Unknown Filled Ground (Pit, quarry etc)       Date of Mapping:     1988	C3NE (NE)	659	-	355516 425867
6	Potentially Infilled Land (Non-Water)       Use:     Unknown Filled Ground (Pit, quarry etc)       Date of Mapping:     1991	C2SW (W)	934	-	354259 425513
7	Potentially Infilled Land (Water)         Use:       Unknown Filled Ground (Pond, marsh, river, stream, dock etc)         Date of Mapping:       1848	C4SW (SE)	54	-	355568 425367
8	Potentially Infilled Land (Water)         Use:       Unknown Filled Ground (Pond, marsh, river, stream, dock etc)         Date of Mapping:       1848	C3SE (S)	76	-	355449 425327
9	Potentially Infilled Land (Water)           Use:         Unknown Filled Ground (Pond, marsh, river, stream, dock etc)           Date of Mapping:         1956	C4NW (E)	109	-	355687 425699
10	Potentially Infilled Land (Water)           Use:         Unknown Filled Ground (Pond, marsh, river, stream, dock etc)           Date of Mapping:         1848	C4SW (SE)	192	-	355627 425457
11	Potentially Infilled Land (Water)         Use:       Unknown Filled Ground (Pond, marsh, river, stream, dock etc)         Date of Mapping:       1956	C3SE (SE)	195	-	355432 425537
12	Potentially Infilled Land (Water)           Use:         Unknown Filled Ground (Pond, marsh, river, stream, dock etc)           Date of Mapping:         1955	C3SW (SW)	289	-	354983 425335
13	Potentially Infilled Land (Water)         Use:       Unknown Filled Ground (Pond, marsh, river, stream, dock etc)         Date of Mapping:       1848	C3SE (S)	333	-	355340 425506
14	Potentially Infilled Land (Water)         Use:       Unknown Filled Ground (Pond, marsh, river, stream, dock etc)         Date of Mapping:       1956	C4SE (SE)	333	-	355900 425344
15	Potentially Infilled Land (Water)         Use:       Unknown Filled Ground (Pond, marsh, river, stream, dock etc)         Date of Mapping:       1931	C4SW (E)	348	-	355835 425484
16	Potentially Infilled Land (Water)         Use:       Unknown Filled Ground (Pond, marsh, river, stream, dock etc)         Date of Mapping:       1848	C3SW (SW)	377	-	355176 425508
17	Potentially Infilled Land (Water)         Use:       Unknown Filled Ground (Pond, marsh, river, stream, dock etc)         Date of Mapping:       1848	C3SW (SW)	396	-	354994 425461
18	Potentially Infilled Land (Water)         Use:       Unknown Filled Ground (Pond, marsh, river, stream, dock etc)         Date of Mapping:       1894	C3SW (SW)	424	-	354895 425440
19	Potentially Infilled Land (Water)         Use:       Unknown Filled Ground (Pond, marsh, river, stream, dock etc)         Date of Mapping:       1848	C3SE (SW)	484	-	355228 425634
20	Potentially Infilled Land (Water)         Use:       Unknown Filled Ground (Pond, marsh, river, stream, dock etc)         Date of Mapping:       1956	C4NW (E)	495	-	355693 425689
21	Potentially Infilled Land (Water)         Use:       Unknown Filled Ground (Pond, marsh, river, stream, dock etc)         Date of Mapping:       1931	C4NW (E)	527	-	355747 425708
22	Potentially Infilled Land (Water)           Use:         Unknown Filled Ground (Pond, marsh, river, stream, dock etc)           Date of Mapping:         1848	C3SW (W)	555	-	354933 425648
23	Description         Unknown Filled Ground (Pond, marsh, river, stream, dock etc)           Date of Mapping:         1956	C4NW (E)	578	-	355701 425773

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### Historical Land Use Information (1:10,000)

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potentially Infilled Land (Water)				
24	Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956	C4NW (E)	588	-	355832 425754
25	Potentially Infilled Land (Water)         Use:       Unknown Filled Ground (Pond, marsh, river, stream, dock etc)         Date of Mapping:       1848	C4SE (E)	603	-	355990 425657
26	Potentially Infilled Land (Water)         Use:       Unknown Filled Ground (Pond, marsh, river, stream, dock etc)         Date of Mapping:       1955	C2SE (W)	611	-	354796 425599
27	Potentially Infilled Land (Water)       Use:     Unknown Filled Ground (Pond, marsh, river, stream, dock etc)       Date of Mapping:     1955	C2SE (W)	618	-	354843 425635
28	Potentially Infilled Land (Water)         Use:       Unknown Filled Ground (Pond, marsh, river, stream, dock etc)         Date of Mapping:       1912	C2SE (W)	624	-	354725 425566
29	Potentially Infilled Land (Water)         Use:       Unknown Filled Ground (Pond, marsh, river, stream, dock etc)         Date of Mapping:       1894	C3NW (W)	625	-	354931 425683
30	Potentially Infilled Land (Water)         Use:       Unknown Filled Ground (Pond, marsh, river, stream, dock etc)         Date of Mapping:       1956	C4SE (E)	625	-	356049 425632
31	Potentially Infilled Land (Water)         Use:       Unknown Filled Ground (Pond, marsh, river, stream, dock etc)         Date of Mapping:       1848	C3NW (W)	634	-	354887 425674
32	Potentially Infilled Land (Water)         Use:       Unknown Filled Ground (Pond, marsh, river, stream, dock etc)         Date of Mapping:       1848	C3NE (NE)	675	-	355477 425880
33	Potentially Infilled Land (Water)         Use:       Unknown Filled Ground (Pond, marsh, river, stream, dock etc)         Date of Mapping:       1848	C2SW (W)	692	-	354516 425445
34	Potentially Infilled Land (Water)         Use:       Unknown Filled Ground (Pond, marsh, river, stream, dock etc)         Date of Mapping:       1956	C3NW (W)	699	-	355017 425793
35	Potentially Infilled Land (Water)         Use:       Unknown Filled Ground (Pond, marsh, river, stream, dock etc)         Date of Mapping:       1848	C2SW (W)	707	-	354491 425438
36	Potentially Infilled Land (Water)         Use:       Unknown Filled Ground (Pond, marsh, river, stream, dock etc)         Date of Mapping:       1956	C4NE (E)	709	-	356003 425782
37	Potentially Infilled Land (Water)         Use:       Unknown Filled Ground (Pond, marsh, river, stream, dock etc)         Date of Mapping:       1894	C4NW (E)	733	-	355800 425907
38	Potentially Infilled Land (Water)         Use:       Unknown Filled Ground (Pond, marsh, river, stream, dock etc)         Date of Mapping:       1848	C3NW (NW)	749	-	355087 425870
39	Potentially Infilled Land (Water)           Use:         Unknown Filled Ground (Pond, marsh, river, stream, dock etc)           Date of Mapping:         1955	C2SW (W)	773	-	354472 425522
40	Potentially Infilled Land (Water)           Use:         Unknown Filled Ground (Pond, marsh, river, stream, dock etc)           Date of Mapping:         1848	C2NE (W)	778	-	354709 425742
41	Potentially Infilled Land (Water)           Use:         Unknown Filled Ground (Pond, marsh, river, stream, dock etc)           Date of Mapping:         1955	C2NE (W)	800	-	354643 425723
42	Potentially Infilled Land (Water)           Use:         Unknown Filled Ground (Pond, marsh, river, stream, dock etc)           Date of Mapping:         1956	C8SW (NE)	879	-	355707 426077
43	Potentially Infilled Land (Water)         Use:       Unknown Filled Ground (Pond, marsh, river, stream, dock etc)         Date of Mapping:       1914	C4NE (NE)	880	-	355980 425994
44	Potentially Infilled Land (Water)Use:Unknown Filled Ground (Pond, marsh, river, stream, dock etc)Date of Mapping:1894	C7SE (N)	945	-	355212 426104

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### Historical Land Use Information (1:10,000)

Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potentially Infilled	Land (Water)				
45	Use: Date of Mapping:	Unknown Filled Ground (Pond, marsh, river, stream, dock etc) 1956	C7SW (NW)	968	-	355032 426082
	Potentially Infilled	Land (Water)				
46	Use: Date of Mapping:	Unknown Filled Ground (Pond, marsh, river, stream, dock etc) 1955	C7SW (NW)	982	-	354901 426051

### Ground Stability Data (1:50,000)

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	CBSCB Compensation District				
	The site does not fall within the brine compensation area.				
	Brine Subsidence Solution Area				
	The site does not fall within the brine subsidence solution area.				
	Potential for Collapsible Ground Stability Hazards				
47	Hazard Potential:         Very Low           Source:         British Geological Survey, National Geoscience Information Service	C3SE (SE)	0	1	355524 425356
	Potential for Collapsible Ground Stability Hazards				
48	Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	(S)	0	1	355294 425000
	Potential for Collapsible Ground Stability Hazards				
49	Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	(SW)	13	1	355000 425000
	Potential for Collapsible Ground Stability Hazards				
50	Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	(SW)	51	1	355000 425095
	Potential for Collapsible Ground Stability Hazards				
51	Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	C3NE (SW)	122	1	355294 425703
	Potential for Collapsible Ground Stability Hazards	(011)			120100
52	Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	C3NW (W)	182	1	355000 425703
	Potential for Collapsible Ground Stability Hazards	(**)			420100
	Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	C3NE (E)	15	1	355378 425684
		(Ľ)			423004
	Potential for Collapsible Ground Stability Hazards           Hazard Potential:         No Hazard           Source:         British Geological Survey, National Geoscience Information Service	(SW)	95	1	355000 425227
					420221
	Potential for Collapsible Ground Stability Hazards           Hazard Potential:         No Hazard           Source:         British Geological Survey, National Geoscience Information Service	(SW)	233	1	354814 425000
	Potential for Compressible Ground Stability Hazards				423000
53	Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	C3NE (NE)	15	1	355510 425804
	Potential for Compressible Ground Stability Hazards	()			
54	Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	(SW)	95	1	355000 425227
	Potential for Compressible Ground Stability Hazards				
55	Hazard Potential: Very Low	C3NE	213	1	355355
	Source: British Geological Survey, National Geoscience Information Service	(E)			425683
	Potential for Compressible Ground Stability Hazards				
56	Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	(SW)	233	1	354814 425000
	Potential for Compressible Ground Stability Hazards				
	Hazard Potential: No Hazard	C3SE	0	1	355524
	Source: British Geological Survey, National Geoscience Information Service	(SE)			425356
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard	(8)	0	1	255204
	Source: British Geological Survey, National Geoscience Information Service	(S)	0	I	355294 425000
	Potential for Compressible Ground Stability Hazards				
	Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	(SW)	13	1	355000 425000
	Potential for Compressible Ground Stability Hazards				
	Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	(SW)	51	1	355000 425095
	Potential for Compressible Ground Stability Hazards				
	Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	C3NE (SW)	122	1	355294 425703
	Potential for Compressible Ground Stability Hazards	(·)			
		1	1		

### Ground Stability Data (1:50,000)

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Ground Dissolution Stability Hazards           Hazard Potential:         No Hazard           Source:         British Geological Survey, National Geoscience Information Service	(S)	0	1	355294 425000
	Potential for Ground Dissolution Stability Hazards           Hazard Potential:         No Hazard           Source:         British Geological Survey, National Geoscience Information Service	C3NE (SW)	0	1	355294 425703
	Potential for Ground Dissolution Stability Hazards           Hazard Potential:         No Hazard           Source:         British Geological Survey, National Geoscience Information Service	(SW)	13	1	355000 425000
	Potential for Ground Dissolution Stability Hazards           Hazard Potential:         No Hazard           Source:         British Geological Survey, National Geoscience Information Service	C3NW (W)	51	1	355000 425703
57	Potential for Landslide Ground Stability Hazards           Hazard Potential:         Very Low           Source:         British Geological Survey, National Geoscience Information Service	C3NE (SW)	0	1	355294 425703
58	Potential for Landslide Ground Stability Hazards           Hazard Potential:         Low           Source:         British Geological Survey, National Geoscience Information Service	(S)	0	1	355503 424926
59	Potential for Landslide Ground Stability Hazards           Hazard Potential:         Very Low           Source:         British Geological Survey, National Geoscience Information Service	(S)	0	1	355294 425000
60	Potential for Landslide Ground Stability Hazards           Hazard Potential:         Low           Source:         British Geological Survey, National Geoscience Information Service	(SE)	11	1	355740 424869
61	Potential for Landslide Ground Stability Hazards           Hazard Potential:         Very Low           Source:         British Geological Survey, National Geoscience Information Service	(SW)	13	1	355000 425000
62	Potential for Landslide Ground Stability Hazards           Hazard Potential:         Low           Source:         British Geological Survey, National Geoscience Information Service	(SE)	35	1	356074 424745
63	Potential for Landslide Ground Stability Hazards           Hazard Potential:         Moderate           Source:         British Geological Survey, National Geoscience Information Service	(SE)	39	1	355910 424698
64	Potential for Landslide Ground Stability Hazards           Hazard Potential:         Very Low           Source:         British Geological Survey, National Geoscience Information Service	C3NW (W)	51	1	355000 425703
65	Potential for Landslide Ground Stability Hazards           Hazard Potential:         Very Low           Source:         British Geological Survey, National Geoscience Information Service	(SE)	83	1	356107 424716
66	Potential for Running Sand Ground Stability Hazards           Hazard Potential:         Very Low           Source:         British Geological Survey, National Geoscience Information Service	C4NW (E)	0	1	355706 425674
67	Potential for Running Sand Ground Stability Hazards           Hazard Potential:         Very Low           Source:         British Geological Survey, National Geoscience Information Service	(S)	0	1	355294 425000
68	Potential for Running Sand Ground Stability Hazards           Hazard Potential:         Very Low           Source:         British Geological Survey, National Geoscience Information Service	(SW)	13	1	355000 425000
69	Potential for Running Sand Ground Stability Hazards           Hazard Potential:         Low           Source:         British Geological Survey, National Geoscience Information Service	C3NE (NE)	15	1	355510 425804
70	Potential for Running Sand Ground Stability Hazards           Hazard Potential:         Very Low           Source:         British Geological Survey, National Geoscience Information Service	(SW)	51	1	355000 425095
71	Potential for Running Sand Ground Stability Hazards           Hazard Potential:         Low           Source:         British Geological Survey, National Geoscience Information Service	(SW)	95	1	355000 425227
72	Potential for Running Sand Ground Stability Hazards           Hazard Potential:         Very Low           Source:         British Geological Survey, National Geoscience Information Service	C3NE (SW)	122	1	355294 425703
73	Potential for Running Sand Ground Stability Hazards           Hazard Potential:         Very Low           Source:         British Geological Survey, National Geoscience Information Service	C3NW (W)	182	1	355000 425703

Order Number: 289775268\_1\_1 Date: 14-Jan-2022 rpr\_ec\_datasheet v53.0

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### Ground Stability Data (1:50,000)

Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Runn	ing Sand Ground Stability Hazards				
74	Hazard Potential: Source:	Low British Geological Survey, National Geoscience Information Service	(SW)	233	1	354814 425000
	Potential for Shrin	king or Swelling Clay Ground Stability Hazards				
75	Hazard Potential: Source:	Very Low British Geological Survey, National Geoscience Information Service	(S)	0	1	355294 425000
	Potential for Shrin	king or Swelling Clay Ground Stability Hazards				
76	Hazard Potential: Source:	Very Low British Geological Survey, National Geoscience Information Service	C3NE (SW)	0	1	355294 425703
	Potential for Shrin	king or Swelling Clay Ground Stability Hazards				
77	Hazard Potential: Source:	Very Low British Geological Survey, National Geoscience Information Service	(SW)	13	1	355000 425000
	Potential for Shrin	king or Swelling Clay Ground Stability Hazards				
78	Hazard Potential: Source:	Very Low British Geological Survey, National Geoscience Information Service	C3NW (W)	51	1	355000 425703
	Potential for Shrin	king or Swelling Clay Ground Stability Hazards				
	Hazard Potential: Source:	No Hazard British Geological Survey, National Geoscience Information Service	(S)	0	1	355570 424664



#### No Historical Land Use information available.

#### The following mapping has been analysed for Historical Land Use Information (1:10,000):

1:10,560	Mapsheet	Published Date
Lancashire And Furness	069_00	1848
Lancashire And Furness	061_00	1849
Lancashire And Furness	069_NE	1894
Lancashire And Furness	069_NW	1894
Lancashire And Furness	061_SE	1895
Lancashire And Furness	061_SW	1895
Lancashire And Furness	069_NW	1912
Lancashire And Furness	061_SE	1913
Lancashire And Furness	061_SW	1913
Lancashire And Furness	069_NE	1914
Lancashire And Furness	069_NE	1931
Lancashire And Furness	069_NW	1931
Lancashire And Furness	061_SE	1932
Lancashire And Furness	061_SW	1932
Ordnance Survey Plan	SD52NW	1955
Ordnance Survey Plan	SD52NE	1956
1:10,000	Mapsheet	Published Date
Ordnance Survey Plan	SD52NE	1988
Ordnance Survey Plan	SD52NW	1991

**Data Currency** 

LANDMARK INFORMATION	GROUP*
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Mining and Cavities Data	Version	Update Cycle
BGS Recorded Mineral Sites		
British Geological Survey - National Geoscience Information Service	November 2021	Bi-Annually
Coal Mining Affected Areas		
The Coal Authority - Property Searches	March 2014	Annual Rolling Update
Man Made Mining Cavities		
Stantec UK Ltd	December 2021	Bi-Annually
Mining Instability		
Ove Arup & Partners	June 1998	Not Applicable
Natural Cavities		
Stantec UK Ltd	December 2021	Bi-Annually
Non Coal Mining Areas of Great Britain		
British Geological Survey - National Geoscience Information Service	May 2015	Not Applicable
Historical Land Use Information (1:2,500)	Version	Update Cycle
Subterranean Features		
Landmark Information Group Limited	February 2020	Bi-Annually
Ground Stability Data (1:50,000)	Version	Update Cycle
CBSCB Compensation District		
Cheshire Brine Subsidence Compensation Board (CBSCB)	August 2011	
Cheshire Brine Subsidence Compensation Board (CBSCB)	November 2020	As notified
Potential for Collapsible Ground Stability Hazards		
British Geological Survey - National Geoscience Information Service	April 2020	Annually
Potential for Compressible Ground Stability Hazards		
British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Ground Dissolution Stability Hazards		
British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Landslide Ground Stability Hazards		
British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Running Sand Ground Stability Hazards		
British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Shrinking or Swelling Clay Ground Stability Hazards		
British Geological Survey - National Geoscience Information Service	January 2019	Annually
Brine Subsidence Solution Area		
Johnson Poole & Bloomer	December 2020	Annual Rolling Update



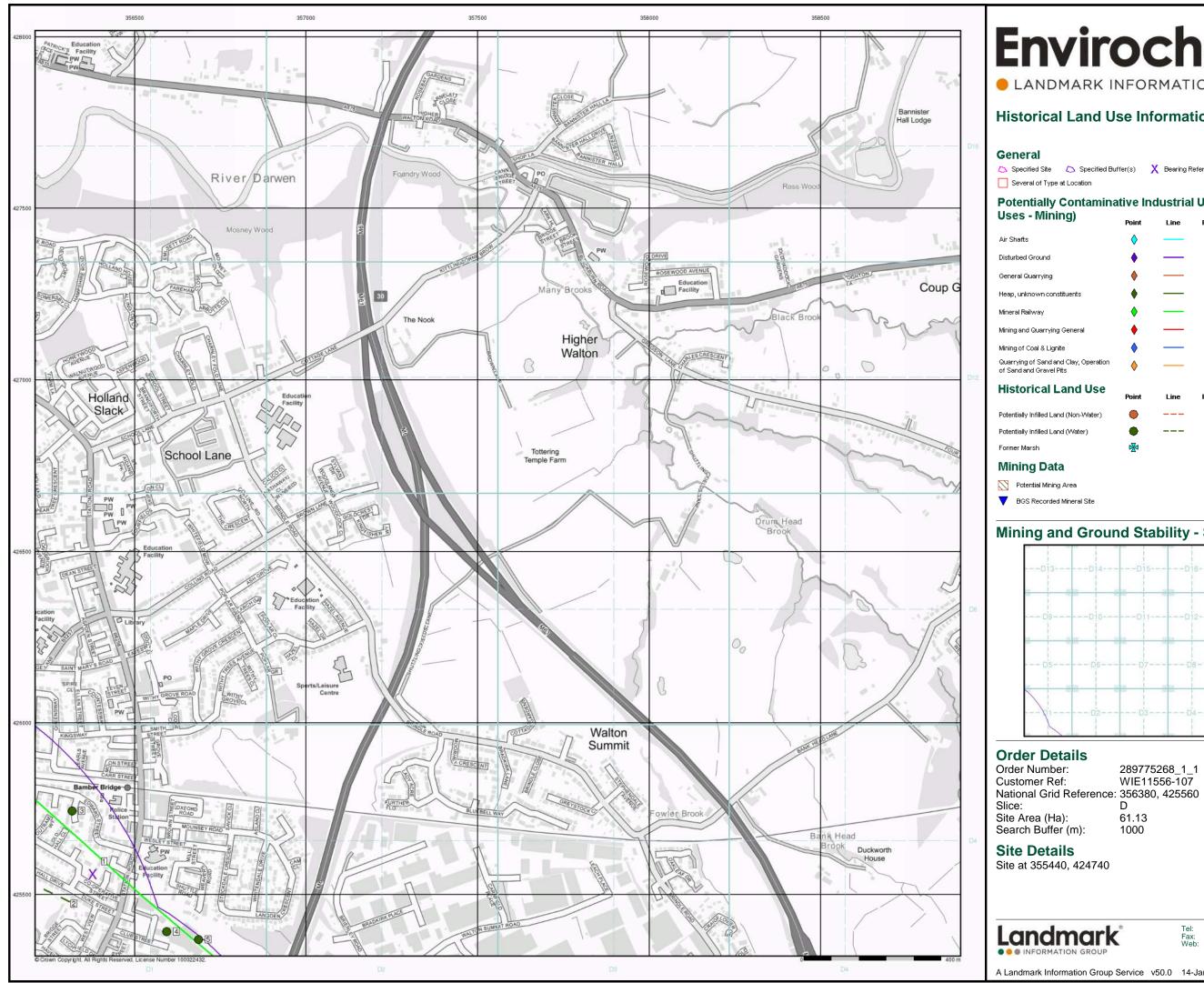
A selection of organisations who provide data within this report

Data Supplier	Data Supplier Logo
Ordnance Survey	Map data
British Geological Survey	British Geological Survey
The Coal Authority	The Coal Authority
Ove Arup	ARUP
Stantec UK Ltd	Stantec
Wardell Armstrong	your earth our world
Johnson Poole & Bloomer	ЛЬВ

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### **Useful Contacts**

Contact	Name and Address	Contact Details
1	British Geological Survey - Enquiry Service British Geological Survey, Environmental Science Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
-	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



## **Envirocheck**<sup>®</sup> LANDMARK INFORMATION GROUP\*

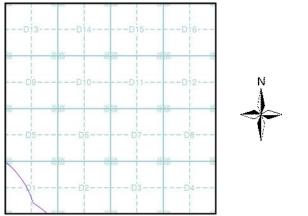
#### Historical Land Use Information (1:10,000)

🛆 Specified Site 🔿 Specified Buffer(s) 🕺 Bearing Reference Point 🛽 Map ID

#### Potentially Contaminative Industrial Uses (Past Land

Uses - Wining)	Point	Line	Polygon
Air Shafts	$\diamond$		
Disturbed Ground	•		
General Quarrying	•		
Heap, unknown constituents	•		(ZZ)
Mineral Railway	<b>♦</b>		
Mining and Quarrying General	•		
Mining of Coal & Lignite	<b>♦</b>		
Quarrying of Sand and Clay, Operation of Sand and Gravel Pits	<b>♦</b>		
Historical Land Use	Point	Line	Polygon
Potentially Infilled Land (Non-Water)	٠		
Potentially Infilled Land (Water)	•		
Former Marsh	⊮		

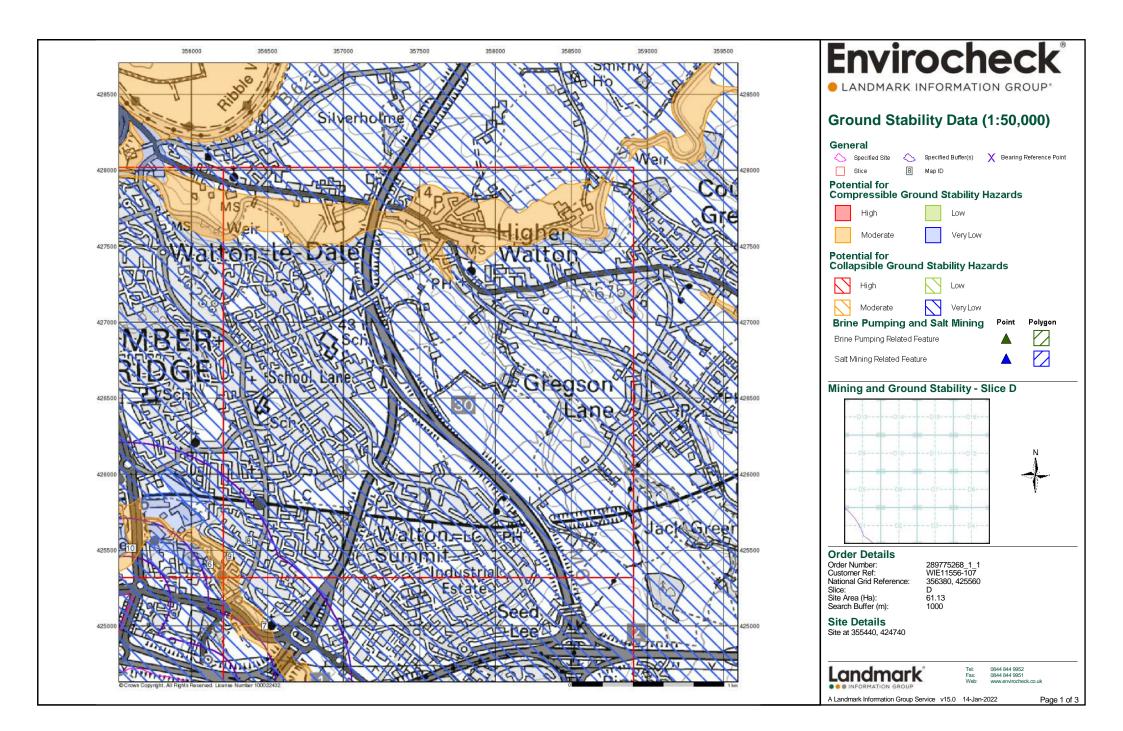
#### Mining and Ground Stability - Slice D

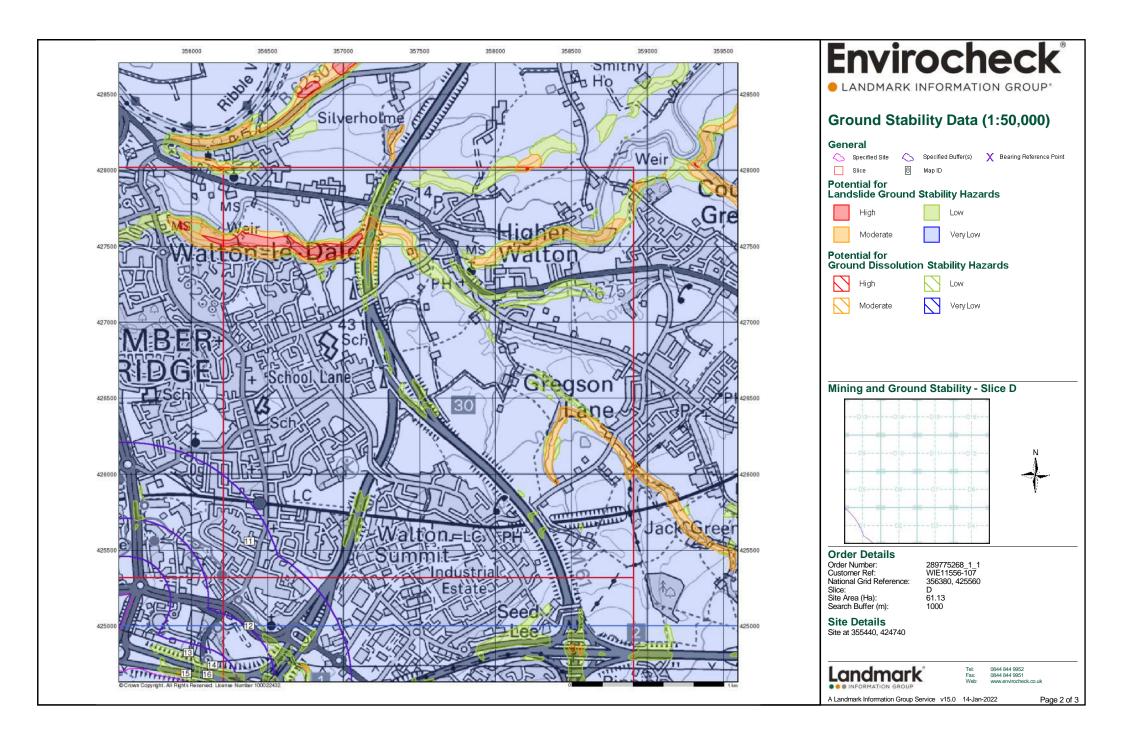


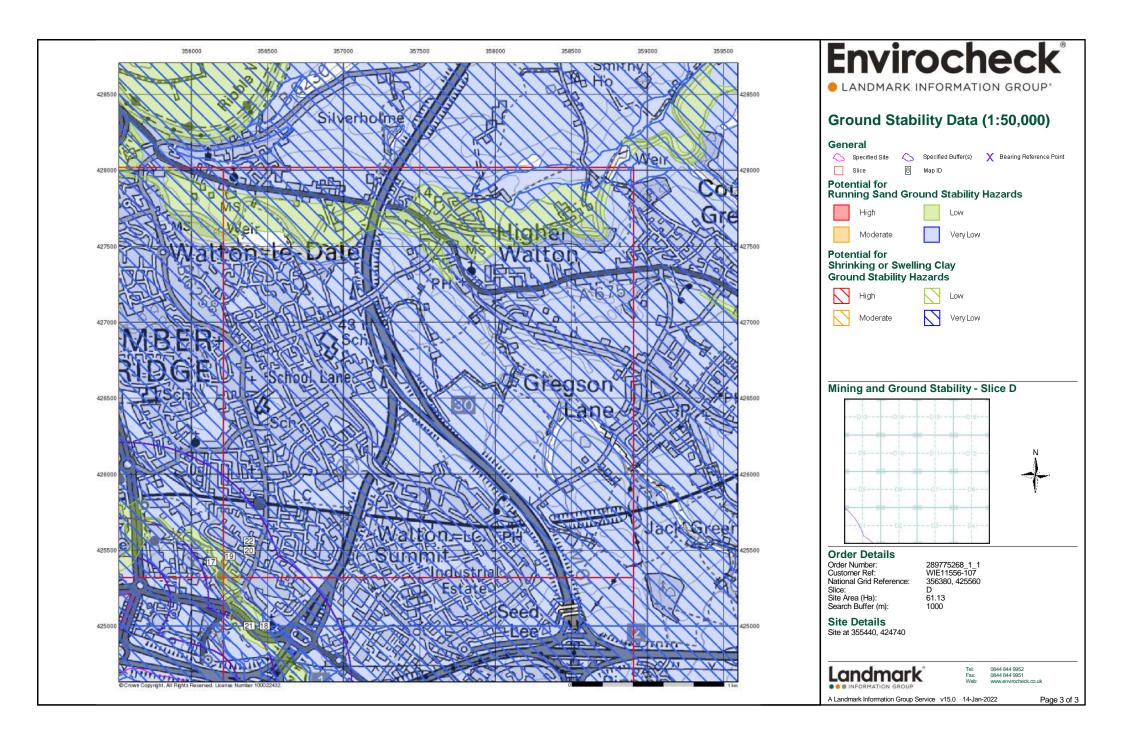
D 61.13 1000



Tel: Fax: Web:









### **Envirocheck**<sup>®</sup> Report:

### Mining and Ground Stability Datasheet

#### **Order Details:**

Order Number: 289775268\_1\_1

Customer Reference: WIE11556-107

National Grid Reference: 356380, 425560

Slice:

Site Area (Ha): 61.13

Search Buffer (m): 1000

Site Details: Site at 355440, 424740

#### **Client Details:**

Mr R Panter Waterman Infrastructure & Environment Ltd Waterman Group 5th Floor 1 Cornwall Street Birmingham West Midlands B3 2DX



### Envirocheck LANDMARK INFORMATION GROUP\*

Report Section and Details	Page Number			
Summary	-			
The Summary section provides an overview of the data contained within the report, detailing the number of data set features or the existence of a data set in relation to the buffer selected. For ease of reference, the report is broken down into 4 sections of data; Mining and Natural Cavities Data, Historical Land Use Information (1:2,500), Historical Land Use Information (1:10,000) and Ground Stability Data (1:50,000).				
Mining and Natural Cavities Data	-			
The Mining and Natural Cavities Data section features data sets related to the existence of mir hazards; and details of naturally formed cavities. Data sets within this section are not plotted, with the exception of BGS Recorded Mineral Sites which feature on the Historical Land Use Information (1:10,000) map.	5			
Historical Land Use Information (1:2,500)	-			
The Historical Land Use Information (1:2,500) section contains data captured from analysis carried out by Landmark of 1:1,250 and 1:2,500 scale historical Ordnance Survey mapping, identifying areas where, historically, the land uses were potentially contaminative. For the purpose of this Envirocheck module, only historical data relating to mining and ground stability has been included and plotted on the corresponding Historical Land Use Information (1:2,500) map. This section also includes the Subterranean Features data set, which details various man-made and man-used underground spaces obtained from the Subterranea Britannica society.				
Historical Land Use Information (1:10,000)	1			
	-			
The Historical Land Use (1:10,000) section covers data captured from the systematic analysis 1:10, 560 and 1:10,000 scale historical Ordnance Survey mapping dating back to the mid-19th contaminative past industrial land uses. For the purpose of this Envirocheck module, only data relating to mining and ground stability has	carried out by Landmark of century, identifying potentially			
The Historical Land Use (1:10,000) section covers data captured from the systematic analysis 1:10, 560 and 1:10,000 scale historical Ordnance Survey mapping dating back to the mid-19th contaminative past industrial land uses.	carried out by Landmark of century, identifying potentially			
The Historical Land Use (1:10,000) section covers data captured from the systematic analysis 1:10, 560 and 1:10,000 scale historical Ordnance Survey mapping dating back to the mid-19th contaminative past industrial land uses. For the purpose of this Envirocheck module, only data relating to mining and ground stability has on the accompanying Historical Land Use Information (1:10,000) map.	carried out by Landmark of century, identifying potentially as been included and plotted <b>2</b> es to 250m and plotted onto 3 hich Brine Pumping and Salt			
The Historical Land Use (1:10,000) section covers data captured from the systematic analysis 1:10, 560 and 1:10,000 scale historical Ordnance Survey mapping dating back to the mid-19th contaminative past industrial land uses. For the purpose of this Envirocheck module, only data relating to mining and ground stability has on the accompanying Historical Land Use Information (1:10,000) map. <b>Ground Stability Data (1:50,000)</b> The Ground Stability (1:50,000) section includes the BGS Geosure data suite, reporting features separate maps. Also reported is brine subsidence, brine mining and salt mining data sets, of w Mining Related Features are plotted, and subsidence insurance claims and insurance investigation.	carried out by Landmark of century, identifying potentially as been included and plotted <b>2</b> es to 250m and plotted onto 3 hich Brine Pumping and Salt			
The Historical Land Use (1:10,000) section covers data captured from the systematic analysis 1:10, 560 and 1:10,000 scale historical Ordnance Survey mapping dating back to the mid-19th contaminative past industrial land uses. For the purpose of this Envirocheck module, only data relating to mining and ground stability has on the accompanying Historical Land Use Information (1:10,000) map. <b>Ground Stability Data (1:50,000)</b> The Ground Stability (1:50,000) section includes the BGS Geosure data suite, reporting feature separate maps. Also reported is brine subsidence, brine mining and salt mining data sets, of w Mining Related Features are plotted, and subsidence insurance claims and insurance investiga plotted.	carried out by Landmark of century, identifying potentially as been included and plotted 2 es to 250m and plotted onto 3 hich Brine Pumping and Salt tions data, which is not 4			
The Historical Land Use (1:10,000) section covers data captured from the systematic analysis 1:10, 560 and 1:10,000 scale historical Ordnance Survey mapping dating back to the mid-19th contaminative past industrial land uses. For the purpose of this Envirocheck module, only data relating to mining and ground stability has on the accompanying Historical Land Use Information (1:10,000) map. <b>Ground Stability Data (1:50,000)</b> The Ground Stability (1:50,000) section includes the BGS Geosure data suite, reporting features separate maps. Also reported is brine subsidence, brine mining and salt mining data sets, of w Mining Related Features are plotted, and subsidence insurance claims and insurance investigar plotted. <b>Historical Map List</b> The Historical Map List section details the historical mapping that has been analysed for your s	carried out by Landmark of century, identifying potentially as been included and plotted 2 es to 250m and plotted onto 3 hich Brine Pumping and Salt titons data, which is not 4			
The Historical Land Use (1:10,000) section covers data captured from the systematic analysis 1:10, 560 and 1:10,000 scale historical Ordnance Survey mapping dating back to the mid-19th contaminative past industrial land uses. For the purpose of this Envirocheck module, only data relating to mining and ground stability has on the accompanying Historical Land Use Information (1:10,000) map. <b>Ground Stability Data (1:50,000)</b> The Ground Stability (1:50,000) section includes the BGS Geosure data suite, reporting features separate maps. Also reported is brine subsidence, brine mining and salt mining data sets, of w Mining Related Features are plotted, and subsidence insurance claims and insurance investiga plotted. <b>Historical Map List</b> The Historical Map List section details the historical mapping that has been analysed for your s Land Use Information sections.	carried out by Landmark of century, identifying potentially as been included and plotted 2 es to 250m and plotted onto 3 hich Brine Pumping and Salt titions data, which is not 4 itte, in relation to the Historical			

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The brine subsidence data relating to the Driotwich area as provided in this report is derived from JPB studies and physical monitoring undertaken annually over more than 35 years. For more detailed interpretation contact enquires@jpb.co.uk. JPB retain the copyright and intellectual rights to this data and accept no liability for any loss or damage, including in direct or consequential loss, arising from the use of this data.

The Mining Instability data was obtained on licence from Ove Arup & Partners Limited (for further information, contact mining.review@arup.com). No reproduction or further use of such Data is to be made without the prior written consent of Ove Arup & Partners Limited. The supplied Mining Instability data is derived from publicly available records and other third party sources and neither Ove Arup & Partners nor Landmark warrant the accuracy or completeness of such information or data.

#### Report Version v53.0

#### Contents

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### Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000n
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BGS Recorded Mineral Sites					
Coal Mining Affected Areas			n/a	n/a	n/a
Man Made Mining Cavities					
Mining Instability			n/a	n/a	n/a
Natural Cavities					
Non Coal Mining Areas of Great Britain				n/a	n/a
Potential Mining Areas					
Historical Land Use Information (1:2,500)					
Extractive Industries or Potential Excavations from 1855-1909 (100m)				n/a	n/a
Extractive Industries or Potential Excavations from 1893-1915 (100m)				n/a	n/a
Extractive Industries or Potential Excavations from 1906-1937 (100m)				n/a	n/a
Extractive Industries or Potential Excavations from 1924-1949 (100m)				n/a	n/a
Extractive Industries or Potential Excavations from 1950-1980 (100m)				n/a	n/a
Subterranean Features (100m)				n/a	n/a
Historical Land Use Information (1:10,000)					
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Brine Pumping Related Features					
Brine Subsidence Solution Area					
Potential for Collapsible Ground Stability Hazards	pg 2	Yes	Yes	n/a	n/a
Potential for Compressible Ground Stability Hazards	pg 2	Yes	Yes	n/a	n/a
Potential for Ground Dissolution Stability Hazards	pg 2	Yes		n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 2	Yes	Yes	n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 2	Yes	Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 3	Yes		n/a	n/a
Salt Mining Related Features					

Order Number: 289775268\_1\_1 Date: 14-Jan-2022



Report Version v53.0

Summary

### Historical Land Use Information (1:10,000)

Map ID		Details		Estimated Distance From Site	Contact	NGR
	Mineral Railway					
1	Use: Date of Mapping:	Not Supplied 1848	D1SW (NE)	838	-	356411 425596
	Potentially Infilled	Land (Water)				
2	Use: Date of Mapping:	Unknown Filled Ground (Pond, marsh, river, stream, dock etc) 1956	D1SW (SW)	625	-	356323 425473
	Potentially Infilled	Land (Water)				
3	Use: Date of Mapping:	Unknown Filled Ground (Pond, marsh, river, stream, dock etc) 1914	D1NW (N)	903	-	356317 425744
	Potentially Infilled	Land (Water)				
4	Use: Date of Mapping:	Unknown Filled Ground (Pond, marsh, river, stream, dock etc) 1956	D1SE (SE)	954	-	356593 425392
	Potentially Infilled Land (Water)					
5	Use: Date of Mapping:	Unknown Filled Ground (Pond, marsh, river, stream, dock etc) 1894	D1SE (SE)	992	-	356686 425370

### Ground Stability Data (1:50,000)

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	CBSCB Compensation District				
	The site does not fall within the brine compensation area.				
	Brine Subsidence Solution Area The site does not fall within the brine subsidence solution area.				
	Potential for Collapsible Ground Stability Hazards				
6	Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	(SW)	0	1	356122 425406
	Potential for Collapsible Ground Stability Hazards				
7	Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	(S)	0	1	356482 425000
8	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low	D1SW	122	1	356378
0	Source: British Geological Survey, National Geoscience Information Service	(N)			425560
	Potential for Collapsible Ground Stability Hazards           Hazard Potential:         No Hazard           Source:         British Geological Survey, National Geoscience Information Service	D1SW (SW)	15	1	356254 425460
	Potential for Compressible Ground Stability Hazards				
9	Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	D1SW (SW)	15	1	356254 425460
10	Potential for Compressible Ground Stability Hazards           Hazard Potential:         Very Low           Source:         British Geological Survey, National Geoscience Information Service	(W)	213	1	355603 425513
	Potential for Compressible Ground Stability Hazards           Hazard Potential:         No Hazard           Source:         British Geological Survey, National Geoscience Information Service	(SW)	0	1	356122 425406
	Potential for Compressible Ground Stability Hazards           Hazard Potential:         No Hazard           Source:         British Geological Survey, National Geoscience Information Service	(S)	0	1	356482 425000
	Potential for Compressible Ground Stability Hazards           Hazard Potential:         No Hazard           Source:         British Geological Survey, National Geoscience Information Service	D1SW (N)	122	1	356378 425560
	Potential for Ground Dissolution Stability Hazards           Hazard Potential:         No Hazard           Source:         British Geological Survey, National Geoscience Information Service	(S)	0	1	356378 425000
	Potential for Ground Dissolution Stability Hazards           Hazard Potential:         No Hazard           Source:         British Geological Survey, National Geoscience Information Service	D1SW (N)	0	1	356378 425560
11	Potential for Landslide Ground Stability Hazards           Hazard Potential:         Very Low           Source:         British Geological Survey, National Geoscience Information Service	D1SW (N)	0	1	356378 425560
12	Potential for Landslide Ground Stability Hazards           Hazard Potential:         Very Low           Source:         British Geological Survey, National Geoscience Information Service	(S)	0	1	356378 425000
13	Potential for Landslide Ground Stability Hazards           Hazard Potential:         Low           Source:         British Geological Survey, National Geoscience Information Service	(SW)	11	1	355980 424824
14	Potential for Landslide Ground Stability Hazards           Hazard Potential:         Low           Source:         British Geological Survey, National Geoscience Information Service	(S)	35	1	356139 424743
15	Potential for Landslide Ground Stability Hazards           Hazard Potential:         Moderate           Source:         British Geological Survey, National Geoscience Information Service	(SW)	39	1	355964 424688
16	Potential for Landslide Ground Stability Hazards           Hazard Potential:         Very Low           Source:         British Geological Survey, National Geoscience Information Service	(S)	83	1	356107 424716
17	Potential for Running Sand Ground Stability Hazards           Hazard Potential:         Very Low           Source:         British Geological Survey, National Geoscience Information Service	(SW)	0	1	356133 425422
18	Potential for Running Sand Ground Stability Hazards           Hazard Potential:         Very Low           Source:         British Geological Survey, National Geoscience Information Service	(S)	0	1	356482 425000

### Ground Stability Data (1:50,000)

Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Runn	ing Sand Ground Stability Hazards				
19	Hazard Potential: Source:	Low British Geological Survey, National Geoscience Information Service	D1SW (SW)	15	1	356254 425460
	Potential for Runn	ing Sand Ground Stability Hazards				
20	Hazard Potential: Source:	Very Low British Geological Survey, National Geoscience Information Service	D1SW (N)	122	1	356378 425560
	Potential for Shrin	king or Swelling Clay Ground Stability Hazards				
21	Hazard Potential: Source:	Very Low British Geological Survey, National Geoscience Information Service	(S)	0	1	356378 425000
	Potential for Shrin	king or Swelling Clay Ground Stability Hazards				
22	Hazard Potential: Source:	Very Low British Geological Survey, National Geoscience Information Service	D1SW (N)	0	1	356378 425560
	Potential for Shrin	king or Swelling Clay Ground Stability Hazards				
	Hazard Potential: Source:	No Hazard British Geological Survey, National Geoscience Information Service	(SW)	0	1	355674 424627



#### No Historical Land Use information available.

#### The following mapping has been analysed for Historical Land Use Information (1:10,000):

1:10,560	Mapsheet	Published Date
Lancashire And Furness	069_00	1848
Lancashire And Furness	061_00	1849
Lancashire And Furness	069_NE	1894
Lancashire And Furness	061_SE	1895
Lancashire And Furness	061_SE	1913
Lancashire And Furness	069_NE	1914
Lancashire And Furness	069_NE	1931
Lancashire And Furness	061_SE	1932
Ordnance Survey Plan	SD52NE	1956
1:10,000	Mapsheet	Published Date
Ordnance Survey Plan	SD52NE	1988

**Data Currency** 

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Mining and Cavities Data	Version	Update Cycle
BGS Recorded Mineral Sites		
British Geological Survey - National Geoscience Information Service	November 2021	Bi-Annually
Coal Mining Affected Areas		
The Coal Authority - Property Searches	March 2014	Annual Rolling Update
Man Made Mining Cavities		
Stantec UK Ltd	December 2021	Bi-Annually
Mining Instability		
Ove Arup & Partners	June 1998	Not Applicable
Natural Cavities		
Stantec UK Ltd	December 2021	Bi-Annually
Non Coal Mining Areas of Great Britain		
British Geological Survey - National Geoscience Information Service	May 2015	Not Applicable
Historical Land Use Information (1:2,500)	Version	Update Cycle
Subterranean Features		
Landmark Information Group Limited	February 2020	Bi-Annually
Ground Stability Data (1:50,000)	Version	Update Cycle
CBSCB Compensation District		
Cheshire Brine Subsidence Compensation Board (CBSCB)	August 2011	
Cheshire Brine Subsidence Compensation Board (CBSCB)	November 2020	As notified
Potential for Collapsible Ground Stability Hazards		
British Geological Survey - National Geoscience Information Service	April 2020	Annually
Potential for Compressible Ground Stability Hazards		
British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Ground Dissolution Stability Hazards		
British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Landslide Ground Stability Hazards		
British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Running Sand Ground Stability Hazards		
British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Shrinking or Swelling Clay Ground Stability Hazards		
British Geological Survey - National Geoscience Information Service	January 2019	Annually
Brine Subsidence Solution Area		
Johnson Poole & Bloomer	December 2020	Annual Rolling Update



A selection of organisations who provide data within this report

Data Supplier	Data Supplier Logo
Ordnance Survey	Map data
British Geological Survey	British Geological Survey
The Coal Authority	The Coal Authority
Ove Arup	ARUP
Stantec UK Ltd	Stantec
Wardell Armstrong	your earth our world
Johnson Poole & Bloomer	ЛЬВ

LANDMARK INFORMATION GROUP\*

### **Useful Contacts**

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1	British Geological Survey - Enquiry Service British Geological Survey, Environmental Science Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
-	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