

## Envirocheck<sup>®</sup> Report:

### Mining and Ground Stability Datasheet

#### Order Details:

**Order Number:**

243736515\_1\_1

**Customer Reference:**

WRGE/PQ/1.00/2020

**National Grid Reference:**

327630, 366570

**Slice:**

A

**Site Area (Ha):**

0.01

**Search Buffer (m):**

1000

#### Site Details:

Deeside Truck Services, Pinfold Lane

Alltami

MOLD

CH7 6NY

#### Client Details:

Mr A Morris

Enviroarm Limited

597 Walsall Road

Great Wyrley

Nr Walsall

WS6 6AE

Report Section and Details	Page Number
<b>Summary</b>	-
<p>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.</p> <p>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).</p>	
<b>Mining and Natural Cavities Data</b>	<b>1</b>
<p>The Mining and Natural Cavities Data section features data sets related to the existence of mining areas and their potential hazards; and details of naturally formed cavities.</p> <p>Data sets within this section are not plotted, with the exception of BGS Recorded Mineral Sites and Potential Mining Areas which feature on the Historical Land Use Information (1:10,000) map.</p>	
<b>Historical Land Use Information (1:2,500)</b>	<b>8</b>
<p>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.</p> <p>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.</p>	
<b>Historical Land Use Information (1:10,000)</b>	<b>9</b>
<p>The Historical Land Use (1:10,000) section covers data captured from the systematic analysis carried out by Landmark of 1:10, 560 and 1:10,000 scale historical Ordnance Survey mapping dating back to the mid-19th century, identifying potentially contaminative past industrial land uses.</p> <p>For the purpose of this Envirocheck module, only data relating to mining and ground stability has been included and plotted on the accompanying Historical Land Use Information (1:10,000) map.</p>	
<b>Ground Stability Data (1:50,000)</b>	<b>12</b>
<p>The Ground Stability (1:50,000) section includes the BGS Geosure data suite, reporting features to 250m and plotted onto 3 separate maps. Also reported is brine subsidence, brine mining and salt mining data sets, of which Brine Pumping and Salt Mining Related Features are plotted, and subsidence insurance claims and insurance investigations data, which is not plotted.</p>	
<b>Historical Map List</b>	<b>13</b>
<p>The Historical Map List section details the historical mapping that has been analysed for your site, in relation to the Historical Land Use Information sections.</p>	
<b>Data Currency</b>	<b>14</b>
<b>Data Suppliers</b>	<b>15</b>
<b>Useful Contacts</b>	<b>16</b>

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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

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m
<b>Mining and Natural Cavities Data</b>					
BGS Recorded Mineral Sites	pg 1		5	2	10
Coal Mining Affected Areas	pg 3	Yes	n/a	n/a	n/a
Man Made Mining Cavities					
Mining Instability	pg 3	Yes	n/a	n/a	n/a
Natural Cavities	pg 4				2
Non Coal Mining Areas of Great Britain	pg 4	Yes		n/a	n/a
Potential Mining Areas	pg 4	8	3	4	10
<b>Historical Land Use Information (1:2,500)</b>					
Extractive Industries or Potential Excavations from 1855-1909 (100m)				n/a	n/a
Extractive Industries or Potential Excavations from 1893-1915 (100m)	pg 8		5	n/a	n/a
Extractive Industries or Potential Excavations from 1906-1937 (100m)	pg 8		4	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
<b>Historical Land Use Information (1:10,000)</b>					
Air Shafts					
Disturbed Ground					
General Quarrying	pg 9		1	1	
Heap, unknown constituents	pg 9		1		1
Mineral Railway	pg 9			6	5
Mining & quarrying general	pg 9				2
Mining of coal & lignite	pg 9		1	1	6
Quarrying of sand & clay, operation of sand & gravel pits	pg 10		2	2	1
Former Marshes					
Potentially Infilled Land (Non-Water)	pg 10		2	3	8
Potentially Infilled Land (Water)	pg 11		1	1	7
<b>Ground Stability Data (1:50,000)</b>					
CBSCB Compensation District			n/a	n/a	n/a
Brine Pumping Related Features					
Brine Subsidence Solution Area					
Potential for Collapsible Ground Stability Hazards	pg 12	Yes		n/a	n/a
Potential for Compressible Ground Stability Hazards	pg 12	Yes	Yes	n/a	n/a
Potential for Ground Dissolution Stability Hazards	pg 12	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 12	Yes	Yes	n/a	n/a
Salt Mining Related Features					

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Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	<p><b>BGS Recorded Mineral Sites</b></p> <p>Site Name: Parry'S Quarry            Location: Ewloe, Buckley, Flintshire            Source: British Geological Survey, National Geoscience Information Service            Reference: 1991            Type: Opencast  <b>Status: Dormant</b>            Operator: Individual'S Name Withheld            Operator Location: Not Supplied            Periodic Type: Carboniferous            Geology: Etruria Formation (Buckley Fireclay Formation)            Commodity: Common Clay and Shale            Positional Accuracy: Located by supplier to within 10m</p>	A13SE (S)	29	1	327630 366540
2	<p><b>BGS Recorded Mineral Sites</b></p> <p>Site Name: Parry'S Quarry            Location: Ewloe, Buckley, Flintshire            Source: British Geological Survey, National Geoscience Information Service            Reference: 253038            Type: Opencast  <b>Status: Ceased</b>            Operator: Individual'S Name Withheld            Operator Location: Not Supplied            Periodic Type: Carboniferous            Geology: Etruria Formation (Buckley Fireclay Formation)            Commodity: Fireclay            Positional Accuracy: Located by supplier to within 10m</p>	A13NE (NE)	104	1	327711 366632
3	<p><b>BGS Recorded Mineral Sites</b></p> <p>Site Name: Castle Brick Works            Location: Ewloe, Buckley, Flintshire            Source: British Geological Survey, National Geoscience Information Service            Reference: 253037            Type: Opencast  <b>Status: Ceased</b>            Operator: Individual'S Name Withheld            Operator Location: Not Supplied            Periodic Type: Carboniferous            Geology: Etruria Formation (Buckley Fireclay Formation)            Commodity: Fireclay            Positional Accuracy: Located by supplier to within 10m</p>	A13NW (NW)	128	1	327527 366647
4	<p><b>BGS Recorded Mineral Sites</b></p> <p>Site Name: Parry'S Brick Works            Location: &lt;Null&gt;, Ewloe, Buckley, Flintshire            Source: British Geological Survey, National Geoscience Information Service            Reference: 253036            Type: Opencast  <b>Status: Ceased</b>            Operator: Individual'S Name Withheld            Operator Location: Not Supplied            Periodic Type: Carboniferous            Geology: Etruria Formation (Buckley Fireclay Formation)            Commodity: Fireclay            Positional Accuracy: Located by supplier to within 10m</p>	A13SW (SW)	131	1	327571 366452
5	<p><b>BGS Recorded Mineral Sites</b></p> <p>Site Name: Parry'S Brick Works            Location: &lt;Null&gt;, Ewloe, Buckley, Flintshire            Source: British Geological Survey, National Geoscience Information Service            Reference: 253035            Type: Opencast  <b>Status: Ceased</b>            Operator: Individual'S Name Withheld            Operator Location: Not Supplied            Periodic Type: Carboniferous            Geology: Etruria Formation (Buckley Fireclay Formation)            Commodity: Fireclay            Positional Accuracy: Located by supplier to within 10m</p>	A13SW (S)	235	1	327598 366336
6	<p><b>BGS Recorded Mineral Sites</b></p> <p>Site Name: Pinfold Lane North Quarry            Location: Alltami, Buckley, Flintshire            Source: British Geological Survey, National Geoscience Information Service            Reference: 1992            Type: Opencast  <b>Status: Dormant</b>            Operator: D. Morgan Plc            Operator Location: Not Supplied            Periodic Type: Carboniferous            Geology: Hollin Rock            Commodity: Sandstone            Positional Accuracy: Located by supplier to within 10m</p>	A13NW (W)	339	1	327300 366650

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
6	<p><b>BGS Recorded Mineral Sites</b></p> <p>Site Name: Pinfold Lane North Quarry            Location: Alltami, Buckley, Flintshire            Source: British Geological Survey, National Geoscience Information Service            Reference: 1992            Type: Opencast  <b>Status: Dormant</b>            Operator: D. Morgan Plc            Operator Location: Not Supplied            Periodic Type: Carboniferous            Geology: Etruria Formation (Buckley Fireclay Formation)            Commodity: Common Clay and Shale            Positional Accuracy: Located by supplier to within 10m</p>	A13NW (W)	339	1	327300 366650
7	<p><b>BGS Recorded Mineral Sites</b></p> <p>Site Name: Pinfold Lane Southside Quarry            Location: Alltami, Flintshire            Source: British Geological Survey, National Geoscience Information Service            Reference: 5825            Type: Opencast  <b>Status: Dormant</b>            Operator: D. Morgan Plc            Operator Location: Not Supplied            Periodic Type: Carboniferous            Geology: Etruria Formation (Buckley Fireclay Formation)            Commodity: Common Clay and Shale            Positional Accuracy: Located by supplier to within 10m</p>	A7NE (SW)	623	1	327120 366210
8	<p><b>BGS Recorded Mineral Sites</b></p> <p>Site Name: Oak Farm Clay Pit            Location: Buckley, Flintshire            Source: British Geological Survey, National Geoscience Information Service            Reference: 136859            Type: Opencast  <b>Status: Ceased</b>            Operator: Unknown Operator            Operator Location: Not Supplied            Periodic Type: Quaternary            Geology: Till, Devensian            Commodity: Common Clay and Shale            Positional Accuracy: Located by supplier to within 10m</p>	A8SW (S)	807	1	327565 365765
9	<p><b>BGS Recorded Mineral Sites</b></p> <p>Site Name: Cheapside Colliery, No. 1 Shaft            Location: Buckley, Flintshire            Source: British Geological Survey, National Geoscience Information Service            Reference: 253075            Type: Underground  <b>Status: Ceased</b>            Operator: Unknown Operator            Operator Location: Not Supplied            Periodic Type: Carboniferous            Geology: Main Coal (North Wales)            Commodity: Coal - Deep            Positional Accuracy: Located by supplier to within 10m</p>	A9NE (SE)	873	1	328341 366066
10	<p><b>BGS Recorded Mineral Sites</b></p> <p>Site Name: Cheapside Colliery, No. 2 Shaft            Location: Buckley, Flintshire            Source: British Geological Survey, National Geoscience Information Service            Reference: 253076            Type: Underground  <b>Status: Ceased</b>            Operator: Unknown Operator            Operator Location: Not Supplied            Periodic Type: Carboniferous            Geology: Main Coal (North Wales)            Commodity: Coal - Deep            Positional Accuracy: Located by supplier to within 10m</p>	A9NE (SE)	877	1	328394 366143
11	<p><b>BGS Recorded Mineral Sites</b></p> <p>Site Name: Ewloegreen Farm            Location: Ewloe, Buckley, Flintshire            Source: British Geological Survey, National Geoscience Information Service            Reference: 136835            Type: Underground  <b>Status: Ceased</b>            Operator: Unknown Operator            Operator Location: Not Supplied            Periodic Type: Carboniferous            Geology: Pennine Middle Coal Measures Formation            Commodity: Coal - Deep            Positional Accuracy: Located by supplier to within 10m</p>	A14SE (E)	946	1	328527 366276

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
12	<b>BGS Recorded Mineral Sites</b> Site Name: Brookhill Brickworks Location: Brookhill, Buckley, Flintshire Source: British Geological Survey, National Geoscience Information Service Reference: 5833 Type: Opencast <b>Status: Ceased</b> Operator: J. J. Cummins Ltd. Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Etruria Formation ( Buckley Fireclay Formation) Commodity: Fireclay Positional Accuracy: Located by supplier to within 10m	A8SE (S)	979	1	327885 365625
13	<b>BGS Recorded Mineral Sites</b> Site Name: Brookhill Fields Occs Location: Brookhill, Buckley, Flintshire Source: British Geological Survey, National Geoscience Information Service Reference: 4786 Type: Opencast <b>Status: Ceased</b> Operator: A D Waste Ltd. Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Coal - Opencast Positional Accuracy: Located by supplier to within 100m	A8SE (S)	985	1	327800 365600
13	<b>BGS Recorded Mineral Sites</b> Site Name: Brookhill Fields Occs Location: Brookhill, Buckley, Flintshire Source: British Geological Survey, National Geoscience Information Service Reference: 4786 Type: Opencast <b>Status: Ceased</b> Operator: A D Waste Ltd. Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Etruria Formation (Buckley Fireclay Formation) Commodity: Fireclay Positional Accuracy: Located by supplier to within 100m	A8SE (S)	985	1	327800 365600
14	<b>BGS Recorded Mineral Sites</b> Site Name: Ash Colliery Location: Alltami, Buckley, Flintshire Source: British Geological Survey, National Geoscience Information Service Reference: 253057 Type: Underground <b>Status: Ceased</b> Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Main Coal (North Wales) Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A7SE (SW)	994	1	327037 365771
15	<b>BGS Recorded Mineral Sites</b> Site Name: Oak House Pit Location: Alltami, Buckley, Flintshire Source: British Geological Survey, National Geoscience Information Service Reference: 253060 Type: Underground <b>Status: Ceased</b> Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A7SE (S)	1000	1	327290 365628
	<b>Coal Mining Affected Areas</b> Description: In an area which may be affected by coal mining activity. It is recommended that a coal mining report is obtained from the Coal Authority. Contact details are included in the Useful Contacts section of this report.	A13NE (NE)	0	2	327628 366569
	<b>Mining Instability</b> Mining Evidence: Inconclusive Coal Mining Source: Ove Arup & Partners Boundary Quality: As Supplied	A13NE (NE)	0	3	327628 366569

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>Natural Cavities</b> Cavity Type: Swallow Hole Solid Geology Detail: Carboniferous Limestone Supergroup, Lower Coal Measures, Middle Coal Measures, Millstone Grit Group, Upper Carboniferous Limestone Superficial Geology Detail: No Details	A19NW (NE)	848	4	328020 367320
	<b>Natural Cavities</b> Cavity Type: Swallow Hole Solid Geology Detail: Carboniferous Limestone Supergroup, Lower Coal Measures, Middle Coal Measures, Millstone Grit Group, Upper Carboniferous Limestone Superficial Geology Detail: No Details	A19NW (NE)	901	4	328140 367310
	<b>Non Coal Mining Areas of Great Britain</b> Risk: Rare Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	0	1	327628 366569
16	<b>Potential Mining Areas</b> Name: Buckley Ceased Operation: 1897 Commodity: Coal; Hollin Reference: 3699 Alternate Name/Mine: Ash New Alternate Name/Mine: Elm Nos. 1, 2 Custodian: Not Supplied	A13NE (NE)	0	5	327628 366569
17	<b>Potential Mining Areas</b> Name: Buckley Ceased Operation: 1893 Commodity: Coal; Brassey Reference: 3000 Alternate Name/Mine: Elm Custodian: Not Supplied	A13NE (NE)	0	5	327628 366569
18	<b>Potential Mining Areas</b> Name: Buckley Ceased Operation: 1929 Commodity: Coal; Main Reference: 9938 Alternate Name/Mine: Elm Nos. 1, 2, 3 Custodian: Not Supplied	A13NE (NE)	0	5	327628 366569
19	<b>Potential Mining Areas</b> Name: Buckley Ceased Operation: 1930 Commodity: Coal; Brassey; Premier Reference: 10065 Alternate Name/Mine: Elm Alternate Name/Mine: Nos. 1, 2 Alternate Name/Mine: Oak Great Custodian: Not Supplied	A13NE (NE)	0	5	327628 366569
20	<b>Potential Mining Areas</b> Name: Buckley Ceased Operation: 1929 Commodity: Coal; Main Reference: 9937 Alternate Name/Mine: Elm Nos. 1, 2 Alternate Name/Mine: Mountain Alternate Name/Mine: Oak Great Alternate Name/Mine: Willow Custodian: Not Supplied	A13NE (NE)	0	5	327628 366569

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
21	<b>Potential Mining Areas</b> Name: Buckley Ceased Operation: 1933 Commodity: Coal; Main Reference: 10959 Alternate: Elm Name/Mine: Alternate: Nos. 1, 2, 3 Name/Mine: Custodian: Not Supplied	A13NE (NE)	0	5	327628 366569
22	<b>Potential Mining Areas</b> Name: Buckley Ceased Operation: 1932 Commodity: Coal; Wall and Bench; Premier Reference: 10867 Alternate: Elm Nos. 1, 3 Name/Mine: Custodian: Not Supplied	A13NE (NE)	0	5	327628 366569
23	<b>Potential Mining Areas</b> Name: Buckley Ceased Operation: 1934 Commodity: Coal; Brassey; Hollin Reference: 11222 Alternate: Elm Name/Mine: Alternate: Nos. 1, 2, 3 Name/Mine: Alternate: Oak Name/Mine: Alternate: Oak Great Name/Mine: Custodian: Not Supplied	A13NE (NE)	0	5	327628 366569
24	<b>Potential Mining Areas</b> Name: Buckley Ceased Operation: 1928 Commodity: Coal; Queen Reference: 11518 Alternate: Elm Name/Mine: Alternate: No. 3 Name/Mine: Custodian: Not Supplied	A13SW (S)	68	5	327627 366501
25	<b>Potential Mining Areas</b> Name: Oak Ceased Operation: 1908 Commodity: Coal; Hollin Reference: 5230 Alternate: Elm Name/Mine: Alternate: Nos. 2, 3 Name/Mine: Custodian: Not Supplied	A13SW (S)	68	5	327627 366501
26	<b>Potential Mining Areas</b> Name: Ash Ceased Operation: 1913 Commodity: Coal; Brassey; Wall and Bench; Main Reference: 6060 Alternate: Oak Name/Mine: Custodian: Not Supplied	A13SW (W)	241	5	327397 366505
27	<b>Potential Mining Areas</b> Name: Sycamore Ceased Operation: 1927 Commodity: Coal; Queen; Premier Reference: 8843 Alternate: Not Supplied Name/Mine: Custodian: Not Supplied	A13NE (N)	335	5	327634 366903
28	<b>Potential Mining Areas</b> Name: Dublin Main Ceased Operation: 1896 Commodity: Coal; Hollin Reference: 3384 Alternate: Not Supplied Name/Mine: Custodian: Not Supplied	A18SW (NW)	407	5	327403 366907

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
29	<b>Potential Mining Areas</b> Name: Dublin Main Ceased Operation: 1886 Commodity: Coal; Hollin; Main Reference: 1861 Alternate: Nos. 1, 2 Name/Mine: Custodian: Not Supplied	A18SW (NW)	407	5	327403 366907
30	<b>Potential Mining Areas</b> Name: Buckley Ceased Operation: 1878 Commodity: Coal; Main Reference: 894 Alternate: Oak Name/Mine: Alternate: Willow Name/Mine: Custodian: Not Supplied	A8NW (S)	470	5	327621 366099
31	<b>Potential Mining Areas</b> Name: Ewloe Hall and Cheapside Ceased Operation: 1849 Commodity: Coal; Main Reference: R386 Alternate: Not Supplied Name/Mine: Custodian: Not Supplied	A14SW (E)	578	5	328201 366492
32	<b>Potential Mining Areas</b> Name: Cheapside Ceased Operation: 1875 Commodity: Coal; Main Reference: 204 Alternate: Nos. 1, 2 Name/Mine: Custodian: Not Supplied	A14SW (E)	578	5	328201 366492
33	<b>Potential Mining Areas</b> Name: Buckley Ceased Operation: 1887 Commodity: Coal; Main; Hollin Reference: 2030 Alternate: Maesygrug Nos. 1, 2 Name/Mine: Custodian: Not Supplied	A12NE (W)	633	5	326996 366579
34	<b>Potential Mining Areas</b> Name: Ewloe Hall Ceased Operation: 1879 Commodity: Coal; Main; Hollin; Brassey Reference: 1053 Alternate: Not Supplied Name/Mine: Custodian: Not Supplied	A9NW (SE)	742	5	328194 366090
35	<b>Potential Mining Areas</b> Name: Cheapside Ceased Operation: 1876 Commodity: Coal; Brassey Reference: 588 Alternate: Not Supplied Name/Mine: Custodian: Not Supplied	A9NW (SE)	742	5	328194 366090
36	<b>Potential Mining Areas</b> Name: Hawarden Ceased Operation: Not Supplied Commodity: Coal Reference: Not Supplied Alternate: Not Supplied Name/Mine: Custodian: Not Supplied	A9NW (SE)	742	5	328194 366090

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
37	<b>Potential Mining Areas</b> Name: Alltami Ceased Operation: 1885 Commodity: Coal; Main; Hollin Reference: 1779 Alternate Name/Mine: Garner's Alternate Name/Mine: Leonard's Alternate Name/Mine: Lily Alternate Name/Mine: Square Custodian: Not Supplied	A7NE (SW)	789	5	326988 366110
38	<b>Potential Mining Areas</b> Name: Northop Hall Ceased Operation: Not Supplied Commodity: Coal; Hollin; Main Reference: R328 Alternate Name/Mine: Not Supplied Custodian: Not Supplied	A17NE (NW)	972	5	327008 367316
39	<b>Potential Mining Areas</b> Name: Main Ceased Operation: 1914 Commodity: Coal; Hollin; Main Reference: 6281 Alternate Name/Mine: Nos. 1, 2, 3 Custodian: Not Supplied	A17NE (NW)	972	5	327008 367316
40	<b>Potential Mining Areas</b> Name: Aston Hall Ceased Operation: 1906 Commodity: Coal; Four Feet; Yard Reference: 4970 Alternate Name/Mine: Nos. 1, 2 Custodian: Not Supplied	A14SE (E)	977	5	328604 366553

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
41	<b>Extractive Industries or Potential Excavations from 1893-1915</b> Use: Castle Brick Works First Map Published 1899 Date: Last Map Published Not Applicable Date:	A13SW (W)	51	-	327581 366554
42	<b>Extractive Industries or Potential Excavations from 1893-1915</b> Use: Unspecified Quarry First Map Published 1899 Date: Last Map Published Not Applicable Date:	A13SW (W)	51	-	327581 366554
43	<b>Extractive Industries or Potential Excavations from 1893-1915</b> Use: Brick Works First Map Published 1899 Date: Last Map Published Not Applicable Date:	A13SW (SW)	79	-	327566 366522
44	<b>Extractive Industries or Potential Excavations from 1893-1915</b> Use: Unspecified Deposited Material First Map Published 1899 Date: Last Map Published Not Applicable Date:	A13SW (S)	93	-	327614 366478
45	<b>Extractive Industries or Potential Excavations from 1893-1915</b> Use: Unspecified Quarry First Map Published 1899 Date: Last Map Published Not Applicable Date:	A13SW (SW)	98	-	327565 366495
46	<b>Extractive Industries or Potential Excavations from 1906-1937</b> Use: Castle Brick Works First Map Published 1912 Date: Last Map Published Not Applicable Date:	A13SW (W)	51	-	327580 366553
47	<b>Extractive Industries or Potential Excavations from 1906-1937</b> Use: Unspecified Quarry First Map Published 1912 Date: Last Map Published Not Applicable Date:	A13SW (W)	66	-	327563 366568
48	<b>Extractive Industries or Potential Excavations from 1906-1937</b> Use: Brick Works First Map Published 1912 Date: Last Map Published Not Applicable Date:	A13SW (SW)	68	-	327598 366509
49	<b>Extractive Industries or Potential Excavations from 1906-1937</b> Use: Unspecified Quarry First Map Published 1912 Date: Last Map Published Not Applicable Date:	A13SW (SW)	80	-	327587 366501
50	<b>Extractive Industries or Potential Excavations from 1950-1980</b> Use: Clay Pits First Map Published 1964 Date: Last Map Published N/A Date:	A13NW (W)	23	-	327605 366569

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
51	<b>General Quarrying</b> Use: Not Supplied Date of Mapping: 1992	A13SE (S)	188	-	327699 366396
52	<b>General Quarrying</b> Use: Not Supplied Date of Mapping: 1882	A18SW (NW)	481	-	327345 366957
53	<b>Heap, unknown constituents</b> Use: Not Supplied Date of Mapping: 1914	A13SE (S)	113	-	327654 366459
54	<b>Heap, unknown constituents</b> Use: Not Supplied Date of Mapping: 1914	A9NE (SE)	869	-	328334 366063
55	<b>Mineral Railway</b> Use: Not Supplied Date of Mapping: 1881 - 1963	A13SE (SE)	256	-	327834 366416
56	<b>Mineral Railway</b> Use: Not Supplied Date of Mapping: 1881 - 1963	A13NE (N)	275	-	327691 366836
57	<b>Mineral Railway</b> Use: Not Supplied Date of Mapping: 1881	A13NE (N)	285	-	327659 366852
58	<b>Mineral Railway</b> Use: Not Supplied Date of Mapping: 1900	A13SW (W)	309	-	327330 366491
59	<b>Mineral Railway</b> Use: Not Supplied Date of Mapping: 1881	A13SW (S)	310	-	327592 366262
60	<b>Mineral Railway</b> Use: Not Supplied Date of Mapping: 1900 - 1963	A13NW (NW)	310	-	327452 366824
61	<b>Mineral Railway</b> Use: Not Supplied Date of Mapping: 1900 - 1938	A7NE (SW)	599	-	327278 366083
62	<b>Mineral Railway</b> Use: Not Supplied Date of Mapping: 1914 - 1938	A7NE (SW)	653	-	327281 366016
63	<b>Mineral Railway</b> Use: Not Supplied Date of Mapping: 1900 - 1938	A8NW (SW)	663	-	327292 365998
64	<b>Mineral Railway</b> Use: Not Supplied Date of Mapping: 1900 - 1938	A7NE (SW)	728	-	327254 365945
65	<b>Mineral Railway</b> Use: Not Supplied Date of Mapping: 1900	A7NE (SW)	731	-	327218 365965
66	<b>Mining &amp; quarrying general</b> Use: Not Supplied Date of Mapping: 1992	A18SE (N)	566	-	327769 367117
67	<b>Mining &amp; quarrying general</b> Use: Not Supplied Date of Mapping: 1882	A18SW (NW)	725	-	327349 367238
68	<b>Mining of coal &amp; lignite</b> Use: Not Supplied Date of Mapping: 1881 - 1963	A13SW (SW)	186	-	327512 366424
69	<b>Mining of coal &amp; lignite</b> Use: Not Supplied Date of Mapping: 1881	A13SW (SW)	350	-	327492 366248
70	<b>Mining of coal &amp; lignite</b> Use: Not Supplied Date of Mapping: 1900	A7NE (SW)	693	-	327232 366001
71	<b>Mining of coal &amp; lignite</b> Use: Not Supplied Date of Mapping: 1900	A7NE (SW)	796	-	327190 365904

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
72	<b>Mining of coal &amp; lignite</b> Use: Not Supplied Date of Mapping: 1881	A8SW (S)	844	-	327547 365729
73	<b>Mining of coal &amp; lignite</b> Use: Not Supplied Date of Mapping: 1881	A14SE (E)	942	-	328520 366266
74	<b>Mining of coal &amp; lignite</b> Use: Not Supplied Date of Mapping: 1900	A18NW (N)	963	-	327357 367493
75	<b>Mining of coal &amp; lignite</b> Use: Not Supplied Date of Mapping: 1900	A7SE (SW)	988	-	327045 365772
76	<b>Quarrying of sand &amp; clay, operation of sand &amp; gravel pits</b> Use: Not Supplied Date of Mapping: 1963	A13SW (W)	52	-	327581 366550
77	<b>Quarrying of sand &amp; clay, operation of sand &amp; gravel pits</b> Use: Not Supplied Date of Mapping: 1963	A13NW (N)	228	-	327573 366790
78	<b>Quarrying of sand &amp; clay, operation of sand &amp; gravel pits</b> Use: Not Supplied Date of Mapping: 1963	A8NE (S)	360	-	327682 366213
79	<b>Quarrying of sand &amp; clay, operation of sand &amp; gravel pits</b> Use: Not Supplied Date of Mapping: 1963	A12SE (SW)	480	-	327206 366342
80	<b>Quarrying of sand &amp; clay, operation of sand &amp; gravel pits</b> Use: Not Supplied Date of Mapping: 1900	A8SW (S)	812	-	327565 365760
81	<b>Potentially Infilled Land (Non-Water)</b> Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A13SE (S)	161	-	327638 366409
82	<b>Potentially Infilled Land (Non-Water)</b> Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A13NW (N)	182	-	327601 366749
83	<b>Potentially Infilled Land (Non-Water)</b> Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A13SW (SW)	263	-	327477 366355
84	<b>Potentially Infilled Land (Non-Water)</b> Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A13SE (S)	337	-	327688 366238
85	<b>Potentially Infilled Land (Non-Water)</b> Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A12SE (SW)	370	-	327289 366422
86	<b>Potentially Infilled Land (Non-Water)</b> Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A8NE (S)	672	-	327756 365910
87	<b>Potentially Infilled Land (Non-Water)</b> Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A7NE (SW)	693	-	327232 366001
88	<b>Potentially Infilled Land (Non-Water)</b> Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A18SW (NW)	725	-	327349 367238
89	<b>Potentially Infilled Land (Non-Water)</b> Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A8SW (S)	812	-	327565 365760
90	<b>Potentially Infilled Land (Non-Water)</b> Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A8SW (S)	844	-	327547 365729
91	<b>Potentially Infilled Land (Non-Water)</b> Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A14SE (E)	942	-	328520 366266
92	<b>Potentially Infilled Land (Non-Water)</b> Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A18NW (N)	963	-	327357 367493

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
93	<b>Potentially Infilled Land (Non-Water)</b> Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1992	A7SE (SW)	988	-	327045 365772
94	<b>Potentially Infilled Land (Water)</b> Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1963	A13SW (S)	106	-	327626 366464
95	<b>Potentially Infilled Land (Water)</b> Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1963	A8NW (SW)	463	-	327418 366158
96	<b>Potentially Infilled Land (Water)</b> Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1963	A14SW (SE)	505	-	328081 366345
97	<b>Potentially Infilled Land (Water)</b> Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1963	A8NE (S)	518	-	327662 366052
98	<b>Potentially Infilled Land (Water)</b> Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1938	A8NE (S)	578	-	327649 365992
99	<b>Potentially Infilled Land (Water)</b> Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1938	A8NE (S)	639	-	327674 365932
100	<b>Potentially Infilled Land (Water)</b> Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1963	A18NE (N)	731	-	327687 367297
101	<b>Potentially Infilled Land (Water)</b> Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1938	A8SW (S)	756	-	327495 365826
102	<b>Potentially Infilled Land (Water)</b> Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1963	A18NE (N)	786	-	327709 367350

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>CBSCB Compensation District</b> The site does not fall within the brine compensation area.				
	<b>Brine Subsidence Solution Area</b> The site does not fall within the brine subsidence solution area.				
103	<b>Potential for Collapsible Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	0	1	327628 366569
104	<b>Potential for Compressible Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	163	1	327557 366715
105	<b>Potential for Compressible Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (S)	207	1	327604 366364
	<b>Potential for Compressible Ground Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	0	1	327628 366569
	<b>Potential for Ground Dissolution Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	0	1	327628 366569
106	<b>Potential for Landslide Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	0	1	327628 366569
107	<b>Potential for Landslide Ground Stability Hazards</b> Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	62	1	327570 366550
108	<b>Potential for Landslide Ground Stability Hazards</b> Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	128	1	327501 366572
109	<b>Potential for Landslide Ground Stability Hazards</b> Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	152	1	327479 366542
110	<b>Potential for Landslide Ground Stability Hazards</b> Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	155	1	327744 366672
111	<b>Potential for Landslide Ground Stability Hazards</b> Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NE (N)	160	1	327630 366729
112	<b>Potential for Landslide Ground Stability Hazards</b> Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	185	1	327444 366576
113	<b>Potential for Landslide Ground Stability Hazards</b> Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	208	1	327422 366557
114	<b>Potential for Landslide Ground Stability Hazards</b> Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NE (E)	208	1	327821 366646
115	<b>Potential for Landslide Ground Stability Hazards</b> Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	236	1	327417 366465
116	<b>Potential for Running Sand Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	128	1	327501 366572
	<b>Potential for Running Sand Ground Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	0	1	327628 366569
117	<b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	128	1	327501 366572
	<b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	0	1	327628 366569

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

1:2,500	Mapsheets	Published Date
Flintshire	014_01	1874
Flintshire	010_13	1876
Flintshire	010_13	1898
Flintshire	014_01	1899
Flintshire	010_13	1912
Flintshire	014_01	1912
Ordnance Survey Plan	SJ2766	1964

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

1:10,560	Mapsheets	Published Date
Flintshire	014_00	1881
Flintshire	010_00	1882
Cheshire	038A_00	1882
Flintshire	010_SW	1900
Flintshire	014_NW	1900
Flintshire	010_SW	1913
Flintshire	014_NW	1914
Flintshire	010_SW	1938
Flintshire	014_NW	1938
Ordnance Survey Plan	SJ26NE	1963
1:10,000	Mapsheets	Published Date
Ordnance Survey Plan	SJ26NE	1992

<b>Mining and Cavities Data</b>	<b>Version</b>	<b>Update Cycle</b>
<b>BGS Recorded Mineral Sites</b> British Geological Survey - National Geoscience Information Service	October 2019	Bi-Annually
<b>Coal Mining Affected Areas</b> The Coal Authority - Property Searches	March 2014	Annual Rolling Update
<b>Man Made Mining Cavities</b> Peter Brett Associates	December 2019	Bi-Annually
<b>Mining Instability</b> Ove Arup & Partners	October 2000	Not Applicable
<b>Natural Cavities</b> Peter Brett Associates	December 2019	Bi-Annually
<b>Non Coal Mining Areas of Great Britain</b> British Geological Survey - National Geoscience Information Service	May 2015	Not Applicable
<b>Historical Land Use Information (1:2,500)</b>	<b>Version</b>	<b>Update Cycle</b>
<b>Subterranean Features</b> Landmark Information Group Limited	February 2020	Bi-Annually
<b>Ground Stability Data (1:50,000)</b>	<b>Version</b>	<b>Update Cycle</b>
<b>CBSCB Compensation District</b> Cheshire Brine Subsidence Compensation Board (CBSCB)	August 2011	Not Applicable
<b>Potential for Collapsible Ground Stability Hazards</b> British Geological Survey - National Geoscience Information Service	January 2019	Annually
<b>Potential for Compressible Ground Stability Hazards</b> British Geological Survey - National Geoscience Information Service	January 2019	Annually
<b>Potential for Ground Dissolution Stability Hazards</b> British Geological Survey - National Geoscience Information Service	January 2019	Annually
<b>Potential for Landslide Ground Stability Hazards</b> British Geological Survey - National Geoscience Information Service	January 2019	Annually
<b>Potential for Running Sand Ground Stability Hazards</b> British Geological Survey - National Geoscience Information Service	January 2019	Annually
<b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b> British Geological Survey - National Geoscience Information Service	January 2019	Annually
<b>Brine Subsidence Solution Area</b> Johnson Poole & Bloomer	January 2015	Annual Rolling Update

A selection of organisations who provide data within this report

Data Supplier	Data Supplier Logo
Ordnance Survey	
British Geological Survey	 <b>British Geological Survey</b> <small>NATURAL ENVIRONMENT RESEARCH COUNCIL</small>
The Coal Authority	 The Coal Authority
Ove Arup	
Peter Brett Associates	
Wardell Armstrong	 <i>your earth our world</i>
Johnson Poole & Bloomer	

Contact	Name and Address	Contact Details
1	<b>British Geological Survey - Enquiry Service</b> 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	<b>The Coal Authority - Property Searches</b> 200 Lichfield Lane, Mansfield, Nottinghamshire, NG18 4RG	Telephone: 0345 762 6848 Fax: 01623 637 338 Email: groundstability@coal.gov.uk Website: www2.groundstability.com
3	<b>Ove Arup &amp; Partners</b> Central Square, Forth Street, Newcastle upon Tyne, Tyne and Wear, NE1 3PL	Telephone: 0191 261 6080 Fax: 0191 261 7879
4	<b>Peter Brett Associates</b> Caversham Bridge House, Waterman Place, Reading, Berkshire, RG1 8DN	Telephone: 0118 950 0761 Fax: 0118 959 7498 Email: reading@pba.co.uk Website: www.pba.co.uk
5	<b>Landmark Information Group Limited</b> Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9960 Fax: 0844 844 9951 Email: customerservice@promap.co.uk Website: www.landmarkinfo.co.uk
-	<b>Landmark Information Group Limited</b> 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