

ID	Distance (m)	Direction	NGR	Use	Date
Not shown	907.0	W	280308 211313	Old Coal Level	1901
1551E V	913.0	S	285393 209306	Air Shaft	1903
1552E V	915.0	S	285393 209305	Air Shaft	1900
Not shown	927.0	NW	280577 211967	Old Coal Level	1948
Not shown	927.0	NW	280577 211967	Unspecified Old Level	1903
Not shown	945.0	NW	280670 212114	Old Coal Levels	1948
Not shown	952.0	NW	280686 212157	Unspecified Old Levels	1903
Not shown	955.0	S	285496 209269	Air Shaft	1903
Not shown	966.0	S	285424 209231	Unspecified Level	1876
Not shown	970.0	S	285887 209168	Disused Colliery	1900
Not shown	981.0	NW	280256 211438	Old Coal Level	1877
Not shown	982.0	S	282119 209172	Coal Pit	1877
Not shown	985.0	NW	280664 212182	Unspecified Old Shaft	1903
Not shown	985.0	NW	280251 211438	Old Coal Level	1901
Not shown	986.0	NW	280666 212186	Old Coal Shaft	1877
Not shown	988.0	NW	280657 212184	Unspecified Disused Shaft	1987
Not shown	997.0	NW	280608 212112	Unspecified Old Levels	1903
Not shown	998.0	W	280230 210538	Air Shaft	1877
Not shown	999.0	S	285430 209220	Unspecified Level	1903
Not shown	999.0	W	280159 211138	Disused Air Shaft	1965
Not shown	999.0	W	280159 211138	Disused Air Shaft	1987
Not shown	999.0	S	285430 209221	Unspecified Level	1900

4.3 Current Ground Workings

This dataset is derived from the BGS BRITPITS database covering active; inactive mines; quarries; oil wells; gas wells and mineral wharves; and rail deposits throughout the British Isles.

Are there any BGS Current Ground Workings within 1000m of the study site boundary? Yes

The following Current Ground Workings information is provided by British Geological Survey:

ID	Distance (m)	Direction	NGR	Commodity Produced	Pit Name	Type of working	Status
1572AA	0.0	On Site	285138 210535	Coal, Deep	Gors Llwyn	Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Ceased
1573AJ	0.0	On Site	285270 210381	Coal, Deep	Gors Llwyn	Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Ceased
1574AO	0.0	On Site	283365 211835	Coal, Surface Mined	Cefn Byrle OCCS	A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Ceased
1575AG	0.0	On Site	285396 210276	Coal, Deep	Gors Llwyn	Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Ceased
1576	0.0	On Site	284000 211325	Coal, Surface Mined	Nant Helen OCCS	A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Ceased
1577EW	0.0	On Site	283385 211743	Coal, Deep	Glynllech Colliery	Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Ceased
1578BB	0.0	On Site	283242 211893	Sandstone	Cefn-yr-erw	A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Ceased
1579BO	0.0	On Site	283845 210911	Coal, Deep	Onllwyn Level	Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Ceased
1580EX	0.0	On Site	283722 211015	Coal, Deep	Onllwyn Trial Shaft	Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Ceased
1581EW	0.0	On Site	283211 211755	Coal, Deep	Cefn-byrle	Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Ceased
1582EX	0.0	On Site	283638 211016	Coal, Deep	Onllwyn Slope	Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Ceased

ID	Distance (m)	Direction	NGR	Commodity Produced	Pit Name	Type of working	Status
1583G	0.0	On Site	283155 211737	Coal, Deep	Cefn-byrle	Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Ceased
1584AL	0.0	On Site	283914 210451	Coal, Deep	Onllwyn Slope	Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Ceased
1585AL	0.0	On Site	283868 210398	Coal, Deep	Drym Colliery	Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Ceased
1586AL	0.0	On Site	283814 210451	Coal, Deep	Drym Colliery	Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Ceased
1587AL	0.0	On Site	283834 210402	Coal, Deep	Drym Colliery	Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Ceased
1588EC	0.0	On Site	283772 210411	Coal, Deep	Drym Colliery	Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Ceased
1589BL	0.0	On Site	283461 210779	Coal, Deep	Cwm Mawr Level	Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Ceased
1590BL	0.0	On Site	283517 210696	Coal, Deep	Cwm Mawr Coal Workings	A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Ceased
1591BL	0.0	On Site	283445 210781	Coal, Deep	Cwm Mawr Level	Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Ceased
1592BL	0.0	On Site	283427 210770	Coal, Deep	Cwm Mawr Level	Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Ceased
1593EC	0.0	On Site	283683 210409	Coal, Deep	Dulais Colliery	Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Ceased
1594ED	0.0	On Site	283331 210870	Coal, Deep	Cwm Mawr Level	Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Ceased
1595ED	0.0	On Site	283323 210868	Coal, Deep	Cwm Mawr Air Shaft	Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Ceased

ID	Distance (m)	Direction	NGR	Commodity Produced	Pit Name	Type of working	Status
1596BL	0.0	On Site	283381 210730	Coal, Deep	Cwm Mawr Level	Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Ceased
1597N	0.0	On Site	282906 211464	Sandstone	Cefn-yr-erw	A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Ceased
1598CG	0.0	On Site	283683 210333	Coal, Deep	Onllwyn Shaft	Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Ceased
1599AS	0.0	On Site	282592 212011	Coal, Deep	Abercrave Middle Main	Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Ceased
1600AQ	0.0	On Site	282736 211561	Sandstone	Cefn-yr-erw	A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Ceased
1601U	0.0	On Site	282550 211927	Coal, Deep	Abercrave Black Drift	Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Ceased
1602AS	0.0	On Site	282501 211999	Coal, Deep	Aber-craf Colliery	Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Ceased
1603EY	0.0	On Site	282639 211661	Sandstone	Aber-cral Colliery	A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Ceased
1604U	0.0	On Site	282533 211884	Coal, Deep	Aber-craf Colliery	Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Ceased
1605EZ	0.0	On Site	282877 211179	Sandstone	Cwm-mawr	A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Ceased
1606AT	0.0	On Site	282519 211768	Sandstone	Aber-cral Colliery	A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Ceased
1607K	0.0	On Site	282549 211530	Sandstone	Aber-cral Colliery	A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Ceased
1608	0.0	On Site	282600 211400	Coal, Surface Mined	Nant Helen OCCS	A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Ceased
1609U	0.0	On Site	282330 211919	Coal, Deep	Aber-craf Colliery	Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Ceased
1610K	0.0	On Site	282470 211516	Sandstone	Aber-cral Colliery	A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Ceased
1611FA	0.0	On Site	281668 210916	Sandstone	Hendre-ladis	A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Ceased

ID	Distance (m)	Direction	NGR	Commodity Produced	Pit Name	Type of working	Status
1612T	0.0	On Site	282193 211956	Coal, Deep	Aber-craf Colliery	Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Ceased
1613	0.0	On Site	281765 211500	Coal, Surface Mined	Nant Helen OCCS	A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Ceased
1614BT	0.0	On Site	283270 210146	Coal, Deep	Halfway House	Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Ceased
1615V	0.0	On Site	281836 211649	Coal, Deep	Llwyn-llafrad	Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Ceased
1616V	0.0	On Site	281874 211669	Coal, Deep	Llwyn-llafrad	Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Ceased
1617B	0.0	On Site	282017 211780	Sandstone	Aber-cral Colliery	A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Ceased
1618J	0.0	On Site	282168 211488	Sandstone	Aber-cral Colliery	A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Ceased
1619A N	0.0	On Site	282203 211649	Coal, Deep	Aber-cral Colliery	Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Ceased
1620AR	0.0	On Site	282106 212011	Coal, Deep	Aber-craf Colliery	Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Ceased
1621	0.0	On Site	282465 211240	Coal, Surface Mined	Nant Helen Extension Surface Coal Mine	A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Ceased
1622C O	2.0	S	285363 210228	Coal, Deep	Gors Llwyn	Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Ceased
1623AK	12.0	W	284178 210370	Coal, Deep	Onllwyn Colliery, No. 1 Drift	Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Ceased
1624CK	16.0	NE	285076 210809	Sandstone	Gors Llwyn	A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Ceased
1625CG	31.0	N	283496 210283	Coal, Deep	Onllwyn Trial Pit	Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Ceased

ID	Distance (m)	Direction	NGR	Commodity Produced	Pit Name	Type of working	Status
1626BC	37.0	SE	283831 210265	Coal, Deep	Onllwyn Trial Drift	Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Ceased
1627CO	40.0	S	285423 210184	Coal, Deep	Gors Llwyn	Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Ceased
1628BC	42.0	S	283752 210229	Coal, Deep	Onllwyn Level	Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Ceased
1629CQ	50.0	NW	281885 212046	Coal, Deep	Llwyn-llafrad	Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Ceased
1630CP	51.0	N	283903 210577	Coal, Deep	Onllwyn Level	Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Ceased
1631CV	53.0	NE	285457 210447	Coal, Deep	Llwyn-pica	Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Ceased
1632BC	59.0	S	283813 210234	Coal, Deep	Onllwyn Colliery Fan Drift	Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Ceased
1633BX	60.0	W	284148 210311	Coal, Deep	Onllwyn Colliery	Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Ceased
1634CU	61.0	NE	282412 212192	Coal, Deep	Cae-Hopkin	Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Ceased
1635CJ	70.0	N	283700 210590	Coal, Surface Mined	Onllwyn OCCS	A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Ceased
1636DE	86.0	S	283719 210171	Coal, Deep	Onllwyn Level	Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Ceased
1637CT	86.0	SE	284460 210260	Sandstone	Rhos-y-gelynen Quarries	A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Ceased
1638DB	87.0	SE	283841 210717	Clay & Shale	Onllwyn Clay Pit	Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Ceased

ID	Distance (m)	Direction	NGR	Commodity Produced	Pit Name	Type of working	Status
1639CT	93.0	S	284431 210239	Coal, Deep	Rhos-y-gelynen Level	Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Ceased
1640CN	94.0	S	284638 210222	Sandstone	Rhos-y-gelynen Quarries	A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Ceased
1641FB	97.0	N	284122 210686	Coal, Deep	Halfway House	Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Ceased
1642BK	97.0	S	284577 210232	Sandstone	Rhos-y-gelynen Quarries	A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Ceased
1643DE	98.0	S	283788 210183	Coal, Deep	Onllwyn Pit	Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Ceased
1644CP	116.0	N	283962 210662	Coal, Deep	Onllwyn Pit	Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Ceased
1645DK	123.0	NW	284342 210940	Sand & Gravel	Onllwyn Gravel Pit	A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Ceased
1646CW	135.0	S	284289 210184	Sandstone	Onllwyn Inn Quarry	A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Ceased
1647CR	139.0	S	283477 210062	Coal, Deep	Onllwyn Four Feet	Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Ceased
1648CW	139.0	SW	284119 210202	Coal, Deep	Onllwyn Pit	Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Ceased
1649DI	141.0	S	283679 210102	Coal, Deep	Onllwyn Air Shaft	Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Ceased
1650DL	158.0	S	285178 210063	Coal, Deep	Gors Llwyn	Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Ceased
1651DG	158.0	NW	281441 211844	Ironstone	Llwyn-llafrad	Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Ceased
1652EI	170.0	NE	284066 211888	Ironstone	Cefn-y-byrle	A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Ceased
1653CW	179.0	S	284212 210125	Sandstone	Onllwyn Inn Quarry	A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Ceased

ID	Distance (m)	Direction	NGR	Commodity Produced	Pit Name	Type of working	Status
1654DS	181.0	SE	284024 210198	Coal, Deep	Onllwyn Level	Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Ceased
1655DS	188.0	SW	284079 210173	Coal, Deep	Onllwyn Level	Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Ceased
1656DS	202.0	SE	284025 210175	Sandstone	Onllwyn Quarry	A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Ceased
1657DJ	212.0	N	282414 212347	Sandstone	Cae-Hopkin	A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Ceased
1658DG	212.0	NW	281362 211832	Ironstone	Llwyn-llafrad	Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Ceased
1659	218.0	NW	281635 212083	Sandstone	Llwyn-llafrad	A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Ceased
1660CW	225.0	SW	284114 210103	Coal, Deep	Onllwyn Level	Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Ceased
1661FC	242.0	N	282417 212377	Sandstone	Cae-Hopkin	A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Ceased
1662EF	279.0	S	283892 210029	Coal, Deep	Onllwyn Level	Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Ceased
1663DY	289.0	NW	281239 211782	Ironstone	Llwyn-llafrad	Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Ceased
1664EF	301.0	S	283879 210000	Coal, Deep	Onllwyn Air Shaft	Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Ceased
1665	306.0	N	282425 212440	Sandstone	Ty-mawr	A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Ceased
1666EI	326.0	NE	284243 211927	Ironstone	Cefn-y-byrle Ironstone Pit	Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Ceased
1667DY	356.0	NW	281143 211750	Sandstone	Gwaun-ton	A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Ceased
1668	357.0	NE	284356 211810	Ironstone	Cefn-y-byrle	A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Ceased

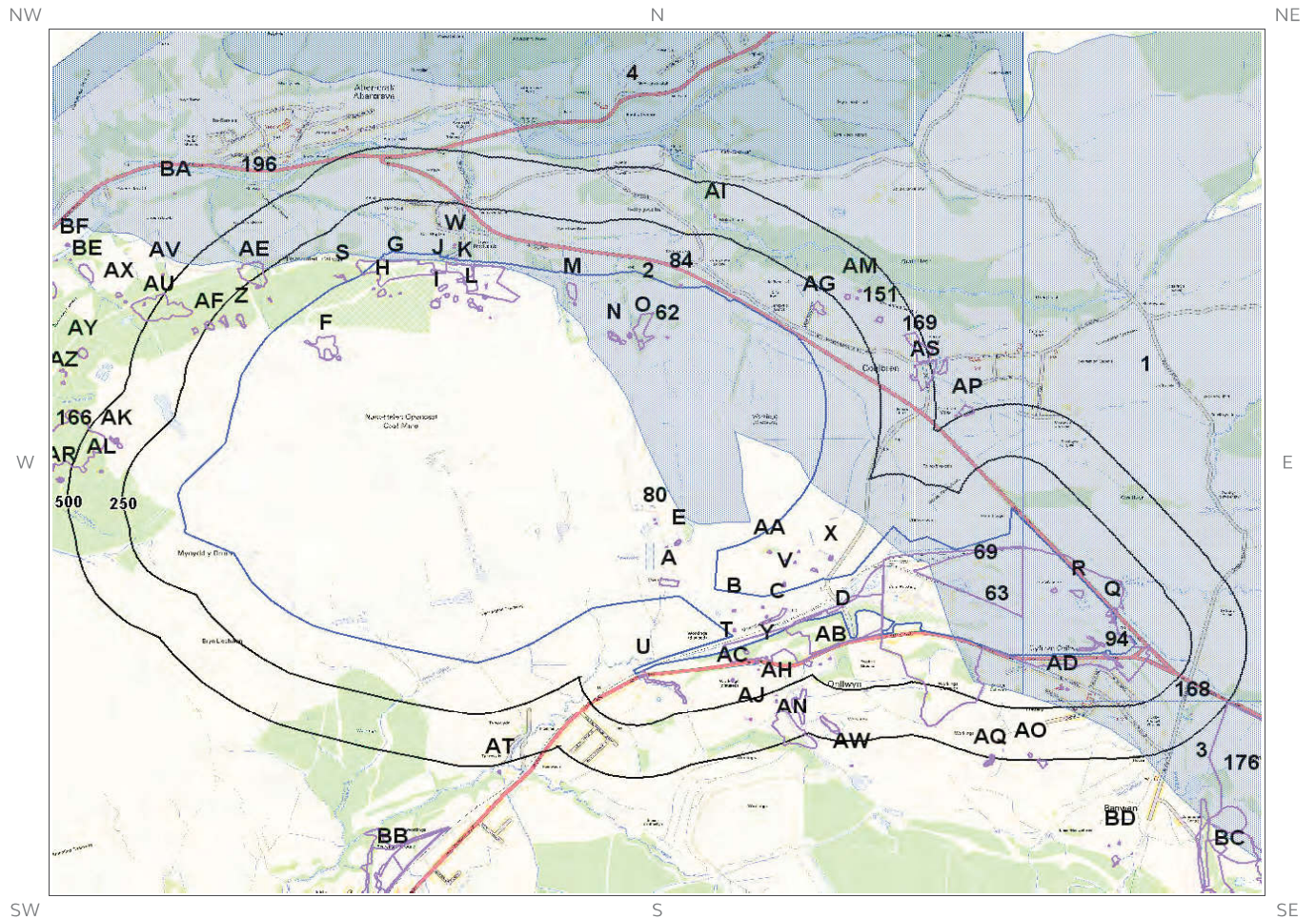
ID	Distance (m)	Direction	NGR	Commodity Produced	Pit Name	Type of working	Status
1669DY	359.0	NW	281205 211862	Sandstone	Gwaun-y-clawdd	A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Ceased
1670EJ	362.0	NW	280880 211241	Ironstone	Hendre-ladis	Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Ceased
1671EJ	366.0	NW	280850 211200	Coal, Surface Mined	Nant Helen Remainder Surface Coal Mine	A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Inactive
Not shown	371.0	W	280806 211104	Ironstone	Hendre-ladis	Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Ceased
1673FD	393.0	S	284134 209919	Coal, Deep	Onllwyn Level	Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Ceased
1674	394.0	W	281050 211600	Coal, Surface Mined	Gwaunton OCCS	A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Ceased
1675FH	409.0	E	284498 211553	Ironstone	Pen-y-graig	A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Ceased
1676FE	413.0	SE	285760 209937	Coal, Deep	Coedcae	Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Ceased
1677DY	430.0	NW	281112 211845	Sandstone	Gwaun-ton	A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Ceased
1678	435.0	E	284482 211717	Ironstone	Pen-y-graig	A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Ceased
1679FD	444.0	SE	284000 209895	Coal, Deep	Onllwyn Level	Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Ceased
1680	471.0	W	280944 211480	Coal, Deep	Gwaun-ton	Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Ceased
1681EP	483.0	NW	281175 212032	Coal, Deep	Gwaun-ton	Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Ceased
1682FD	486.0	S	284142 209823	Coal, Deep	Onllwyn Level	Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Ceased
1683	489.0	NW	281005 211772	Sandstone	Gwaun-ton	A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Ceased

ID	Distance (m)	Direction	NGR	Commodity Produced	Pit Name	Type of working	Status
1684EN	501.0	S	282574 209687	Coal, Deep	Ty-newydd	Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Ceased
1685FF	515.0	N	284756 211398	Ironstone	Pen-y-graig	A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Ceased
1686EL	528.0	S	284839 209702	Coal, Deep	Blaen-Nantcellwen	Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Ceased
1687EL	528.0	S	285090 209690	Sandstone	Blaen-Nantcellwen	A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Ceased
1688FG	538.0	NW	281589 212442	Coal, Deep	Llwyn-Turnor	Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Ceased
Not shown	541.0	W	280623 211065	Ironstone	Hendre-ladis	Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Ceased
1690FH	554.0	E	284640 211586	Ironstone	Pen-y-graig	A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Ceased
1691	555.0	W	280905 211688	Sandstone	Gwaun-ton	A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Ceased
1692EO	558.0	NW	281007 211919	Coal, Deep	Gwaun-ton	Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Ceased
1693	583.0	S	283916 209713	Sandstone	Onllwyn Quarry	A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Ceased
1694EQ	610.0	S	284215 209694	Coal, Deep	Onllwyn Pit	Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Ceased
Not shown	616.0	W	280580 211200	Clay & Shale	Penrhos Brick Works	A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Ceased
1696ER	672.0	NW	280894 211951	Coal, Deep	Gwaun-ton	Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Ceased
Not shown	673.0	W	280490 211069	Ironstone	Hendre-ladis	Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Ceased
Not shown	703.0	NW	280623 211468	Ironstone	Gwaun-ton	Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Ceased

ID	Distance (m)	Direction	NGR	Commodity Produced	Pit Name	Type of working	Status
Not shown	712.0	W	280737 211657	Ironstone	Gwaun-ton	Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Ceased
Not shown	724.0	W	280473 210721	Ironstone	Hendre-ladis	Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Ceased
Not shown	727.0	NW	280630 211514	Ironstone	Gwaun-ton	Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Ceased
Not shown	730.0	W	280458 210768	Ironstone	Hendre-ladis	Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Ceased
Not shown	745.0	W	280436 211169	Ironstone	Hendre-ladis	Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Ceased
Not shown	757.0	NW	280628 211555	Ironstone	Gwaun-ton	Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Ceased
Not shown	761.0	W	280686 211649	Sandstone	Gwaun-ton	A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Ceased
Not shown	789.0	NW	280632 211606	Ironstone	Gwaun-ton	Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Ceased
1707ES	793.0	NW	281138 212429	Coal, Deep	Plas-y-ddol	Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Ceased
Not shown	831.0	NW	280470 211471	Coal, Deep	Gwaun-ton	Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Ceased
Not shown	847.0	NW	280686 211935	Coal, Deep	Gwaun-ton	Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Ceased
Not shown	859.0	W	280310 210842	Ironstone	Hendre-ladis	Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Ceased
Not shown	865.0	SW	280469 210334	Ironstone	Blaen-nant-teg	Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Ceased

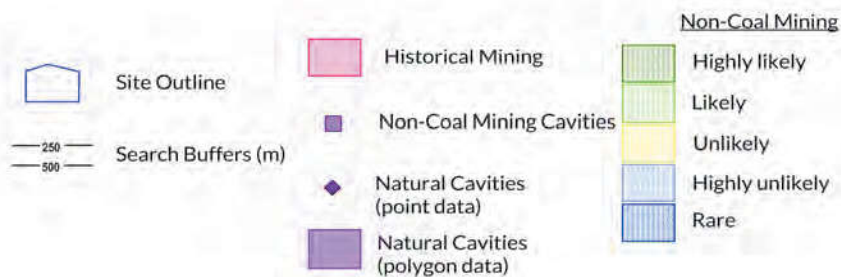
ID	Distance (m)	Direction	NGR	Commodity Produced	Pit Name	Type of working	Status
Not shown	870.0	W	280355 210572	Sandstone	Blaen-nant-teg	A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Ceased
Not shown	875.0	NW	280768 212136	Coal, Deep	Gwaun-ton	Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Ceased
Not shown	878.0	NW	280730 212079	Coal, Deep	Gwaun-ton	Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Ceased
Not shown	879.0	W	280281 210913	Ironstone	Hendre-ladis	Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Ceased
Not shown	882.0	W	280342 210572	Ironstone	Blaen-nant-teg	Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Ceased
Not shown	912.0	SW	280350 210460	Ironstone	Blaen-nant-teg	Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Ceased
Not shown	923.0	W	280579 211878	Coal, Deep	Little London	Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Ceased
Not shown	995.0	NW	280665 212197	Coal, Deep	Gwaun-ton	Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Ceased
Not shown	998.0	S	285416 209224	Coal, Deep	Pant-y-ddraenen	Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots)	Ceased

5 Mining, Extraction & Natural Cavities map



Mining, Extraction and
Natural Cavities Legend

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5 Mining, Extraction & Natural Cavities

5.1 Historical Mining

This dataset is derived from Groundsure unique Historical Land-use Database that are indicative of mining or extraction activities.

Are there any Historical Mining areas within 1000m of the study site boundary? Yes

The following Historical Mining information is provided by Groundsure:

ID	Distance (m)	Direction	NGR	Details	Date
5A	0.0	On Site	283390 210568	Unspecified Disused Level	1965
6A	0.0	On Site	283390 210568	Unspecified Disused Level	1987
7E	0.0	On Site	283429 210759	Old Coal Level	1901
8B	0.0	On Site	283683 210434	Unspecified Disused Level	1987
9B	0.0	On Site	283685 210341	Unspecified Disused Shaft	1987
10B	0.0	On Site	283686 210336	Unspecified Disused Level	1965
11C	0.0	On Site	283891 210408	Unspecified Disused Level	1987
12C	0.0	On Site	283891 210408	Unspecified Disused Level	1965
13C	0.0	On Site	283833 210404	Old Coal Pit	1901
14D	0.0	On Site	284139 210397	Colliery	1901
15C	0.0	On Site	283816 210446	Unspecified Old Shaft	1948
16D	0.0	On Site	284270 210478	Colliery	1948
17C	0.0	On Site	283841 210403	Unspecified Old Shaft	1948
18E	0.0	On Site	283378 210737	Old Coal Level	1948
19C	0.0	On Site	283814 210451	Unspecified Old Shaft	1903
20E	0.0	On Site	283425 210758	Coal Level	1903
21C	0.0	On Site	283834 210407	Unspecified Old Shaft	1903
22U	0.0	On Site	283271 210143	Old Coal Level	1903
23C	0.0	On Site	283834 210407	Old Coal Pit	1877
24E	0.0	On Site	283425 210758	Old Coal Level	1877

ID	Distance (m)	Direction	NGR	Details	Date
25F	0.0	On Site	281808 211693	Unspecified Disused Levels	1965
26F	0.0	On Site	281842 211662	Unspecified Old Levels	1903
27F	0.0	On Site	281868 211655	Old Coal Level	1877
28F	0.0	On Site	281888 211646	Unspecified Old Levels	1903
29F	0.0	On Site	281893 211637	Old Coal Level	1877
30G	0.0	On Site	282141 212051	Colliery	1948
31G	0.0	On Site	282141 212051	Colliery	1903
32G	0.0	On Site	282047 211976	Old Coal Level	1877
33H	0.0	On Site	282083 211958	Unspecified Disused Level	1965
34H	0.0	On Site	282124 211941	Unspecified Old Level	1948
35H	0.0	On Site	282168 211954	Old Coal Level	1877
36I	0.0	On Site	282328 211899	Unspecified Old Levels	1948
37J	0.0	On Site	282341 212059	Unspecified Mine	1965
38I	0.0	On Site	282328 211908	Unspecified Disused Levels	1965
39J	0.0	On Site	282362 211979	Unspecified Disused Levels	1965
40I	0.0	On Site	282352 211932	Coal Levels	1877
41I	0.0	On Site	282367 211948	Coal Levels	1877
42I	0.0	On Site	282382 211942	Unspecified Disused Levels	1965
43K	0.0	On Site	282478 212034	Colliery	1877
44I	0.0	On Site	282422 211928	Unspecified Disused Levels	1965
45K	0.0	On Site	282568 212004	Colliery	1948
46K	0.0	On Site	282568 212004	Colliery	1903
47L	0.0	On Site	282487 211918	Unspecified Old Levels	1903
48L	0.0	On Site	282506 211890	Old Coal Level	1877
49L	0.0	On Site	282531 211881	Unspecified Old Levels	1903
50L	0.0	On Site	282578 211838	Unspecified Old Level	1948
51M	0.0	On Site	282949 211962	Unspecified Disused Drift	1987
52M	0.0	On Site	282949 211962	Unspecified Disused Drift	1965
53N	0.0	On Site	283137 211748	Unspecified Disused Levels	1965

ID	Distance (m)	Direction	NGR	Details	Date
54N	0.0	On Site	283139 211746	Unspecified Old Levels	1903
55N	0.0	On Site	283161 211737	Unspecified Disused Levels	1987
56N	0.0	On Site	283168 211718	Old Coal Levels	1948
57N	0.0	On Site	283211 211754	Unspecified Disused Levels	1965
58N	0.0	On Site	283209 211740	Unspecified Old Level	1903
59N	0.0	On Site	283214 211752	Unspecified Disused Levels	1987
60O	0.0	On Site	283279 211732	Colliery	1948
61O	0.0	On Site	283263 211727	Unspecified Disused Drift	1987
62	0.0	On Site	283382 211742	Coal Shaft	1948
63	0.0	On Site	284964 210308	Colliery	1948
64P	0.0	On Site	285348 210272	Old Coal Level	1900
65P	0.0	On Site	285328 210258	Old Coal Pit	1903
66P	0.0	On Site	285402 210270	Old Coal Level	1903
67Q	0.0	On Site	285404 210409	Old Coal Level	1948
68Q	0.0	On Site	285391 210419	Unspecified Disused Level	1962
69	0.0	On Site	284751 210569	Opencast Workings	1987
70R	0.0	On Site	285244 210511	Old Coal Level	1903
71R	0.0	On Site	285142 210529	Old Coal Level	1900
72N	0.0	On Site	283183 211721	Air Shaft	1903
73M	0.0	On Site	282961 211903	Unspecified Drift	1948
74K	0.0	On Site	282560 211990	Unspecified Drift	1903
75L	0.0	On Site	282556 211936	Unspecified Drift	1903
76L	0.0	On Site	282552 211933	Unspecified Drift	1948
77K	0.0	On Site	282462 212011	Unspecified Drift	1948
78J	0.0	On Site	282421 212114	Air Shaft	1948
79J	0.0	On Site	282419 212112	Air Shaft	1903
80	0.0	On Site	283324 210868	Air Shaft	1948
81E	0.0	On Site	283331 210850	Air Shaft	1903
82P	4.0	S	285370 210223	Old Coal Level	1903

ID	Distance (m)	Direction	NGR	Details	Date
83P	5.0	S	285368 210223	Old Coal Pit	1900
84	5.0	N	283442 211991	Unspecified Disused Drift	1987
85P	6.0	S	285424 210190	Old Coal Level	1900
86S	7.0	NW	281890 212030	Old Coal Level	1877
87S	7.0	NW	281890 212030	Old Coal Level	1903
88T	9.0	S	283648 210226	Old Coal Level	1948
89T	9.0	S	283648 210226	Old Coal Level	1903
90U	10.0	SE	283424 210059	Old Coal Level	1901
91D	11.0	W	284186 210339	Air Shaft	1948
92T	20.0	S	283741 210237	Old Coal Level	1901
93V	20.0	N	283912 210558	Unspecified Old Level	1948
94	37.0	S	285429 210179	Old Coal Level	1903
95V	37.0	N	284050 210625	Old Coal Pit	1877
96W	41.0	NE	282415 212173	Unspecified Old Level	1903
97Q	46.0	NE	285454 210446	Unspecified Disused Level	1977
98S	47.0	NW	281873 212040	Old Coal Level	1948
99W	53.0	NE	282417 212185	Old Coal Level	1877
100P	58.0	S	285351 210164	Old Coal Level	1903
101AA	83.0	SE	283845 210715	Unspecified Old Shafts	1903
102X	84.0	N	284123 210683	Disused Old Coal Pit	1877
103X	84.0	N	284121 210677	Old Coal Pit	1901
104X	85.0	N	284124 210677	Unspecified Old Shaft	1903
105Y	85.0	S	283832 210210	Old Trial Drift	1948
106Y	86.0	S	283784 210190	Unspecified Drift	1876
107T	90.0	S	283787 210186	Unspecified Drift	1877
108X	94.0	N	284128 210689	Old Coal Shaft	1948
109Z	106.0	NW	281445 211821	Unspecified Old Levels	1903
110Z	106.0	NW	281445 211821	Old Ironstone Levels	1948
111Z	109.0	NW	281446 211821	Old Ironstone Level	1877

ID	Distance (m)	Direction	NGR	Details	Date
112Z	112.0	NW	281577 211923	Unspecified Drifts	1948
113AA	114.0	N	283961 210663	Old Coal Pit	1901
114AA	114.0	N	283961 210663	Old Coal Shafts	1948
115AA	114.0	N	283961 210663	Unspecified Old Shafts	1903
116Y	130.0	S	283796 210150	Air Shaft	1877
117AA	132.0	N	283921 210673	Old Coal Shafts	1948
118AB	134.0	SW	284121 210205	Old Coal Pit	1948
119AB	134.0	SW	284121 210205	Old Coal Pit	1903
120AB	135.0	SW	284119 210203	Old Coal Pit	1901
121AC	136.0	S	283677 210103	Air Shaft	1876
122AC	137.0	S	283853 210162	Air Shaft	1876
123AC	140.0	S	283675 210100	Air Shaft	1877
124AG	145.0	NE	284074 211883	Old Ironstone Quarry	1877
125AD	154.0	S	285177 210061	Old Coal Level	1903
126AA	158.0	N	283979 210717	Old Coal Shafts	1948
127AD	164.0	S	285203 210054	Old Coal Level	1900
128AD	165.0	S	285203 210053	Old Coal Level	1903
129Z	172.0	NW	281369 211820	Unspecified Old Levels	1903
130Z	172.0	NW	281369 211820	Old Ironstone Levels	1948
131Z	176.0	NW	281364 211820	Old Ironstone Level	1877
132AB	176.0	SE	284020 210182	Old Coal Level	1903
133AB	184.0	SW	284077 210176	Old Coal Level	1948
134AE	192.0	NW	281505 212047	Colliery	1903
135AE	197.0	NW	281522 211984	Unspecified Drifts	1948
136Z	220.0	NW	281301 211801	Old Ironstone Levels	1948
137AF	222.0	NW	281302 211799	Old Ironstone Level	1877
138AH	271.0	S	283878 210029	Old Coal Drift	1948
139AF	272.0	NW	281236 211775	Old Ironstone Level	1948
140AF	280.0	NW	281234 211764	Unspecified Old Level	1903

ID	Distance (m)	Direction	NGR	Details	Date
141AG	290.0	NE	284201 211938	Old Ironstone Level	1948
142AH	294.0	SE	283981 209973	Old Coal Drift	1901
143AH	295.0	S	283877 210002	Air Shaft	1876
144AH	298.0	S	283877 210000	Air Shaft	1877
145AH	319.0	S	283923 209995	Old Coal Drift	1903
146AG	325.0	NE	284245 211932	Old Ironstone Level	1877
147AK	326.0	NW	280856 211254	Disused Old Ironstone Level	1877
148AI	330.0	N	283598 212323	Unspecified Melin	1903
149AI	330.0	N	283598 212323	Unspecified Melin	1877
150AI	330.0	N	283598 212323	Unspecified Melin	1948
151	339.0	NE	284345 211829	Old Ironstone Quarry	1877
152AJ	343.0	S	283760 209911	Air Shaft	1876
153AU	343.0	NW	281083 211888	Colliery	1877
154AJ	345.0	S	283760 209909	Air Shaft	1877
155AN	355.0	S	283959 209863	Old Coal Level	1901
156AM	355.0	NE	284255 211966	Unspecified Disused Level	1987
157AK	356.0	NW	280876 211246	Unspecified Old Level	1903
158AK	358.0	NW	280877 211248	Disused Old Ironstone Level	1901
159AL	361.0	W	280810 211098	Unspecified Disused Shaft	1965
160AL	366.0	W	280805 211095	Old Ironstone Pit	1901
161AL	367.0	W	280807 211101	Unspecified Old Shaft	1903
162AL	367.0	W	280807 211101	Old Ironstone Shaft	1948
163AM	388.0	NE	284301 211959	Unspecified Old Level	1903
164AS	395.0	E	284548 211557	Old Ironstone Quarry	1877
165AN	400.0	S	284121 209883	Old Coal Level	1948
166	400.0	NW	280585 211222	Disused Old Ironstone Level	1877
167AN	403.0	S	284118 209888	Old Coal Level	1903
168	414.0	SE	285766 209936	Old Coal Level	1948
169	425.0	E	284523 211693	Old Ironstone Quarry	1877

ID	Distance (m)	Direction	NGR	Details	Date
170AO	466.0	S	285035 209739	Old Coal Level	1948
171AO	485.0	S	284867 209719	Old Coal Level	1948
172AQ	487.0	S	284859 209713	Old Coal Level	1900
173AO	489.0	S	284863 209724	Old Coal Level	1903
174AP	491.0	N	284747 211392	Old Ironstone Quarry	1877
175AO	498.0	S	285088 209698	Old Coal Level	1948
176	501.0	SE	286806 209361	Opencast Workings	1981
177AP	510.0	NW	284697 211365	Air Shaft	1948
178AQ	518.0	S	284844 209697	Old Coal Level	1903
179AR	522.0	W	280626 211061	Unspecified Old Level	1903
180AR	522.0	W	280626 211061	Old Ironstone Levels	1948
181AR	522.0	W	280626 211061	Old Ironstone Level	1877
182AS	522.0	E	284635 211598	Old Ironstone Quarry	1877
183AR	525.0	W	280620 211058	Old Ironstone Level	1901
184AT	529.0	S	282619 209661	Old Coal Pit	1901
185AT	529.0	S	282619 209661	Old Coal Pit	1948
186AT	529.0	S	282619 209661	Old Coal Pit	1903
187AT	534.0	S	282622 209659	Coal Pit	1876
188AT	536.0	S	282620 209656	Coal Pit	1877
189AU	545.0	NW	281008 211899	Old Coal Shaft	1948
190AU	547.0	NW	281004 211899	Unspecified Old Shaft	1903
191AU	549.0	NW	281008 211905	Old Coal Shaft	1877
192AV	551.0	NW	281093 212043	Unspecified Old Level	1903
193AV	551.0	NW	281093 212043	Old Coal Level	1948
194AV	554.0	NW	281090 212043	Old Coal Level	1877
Not shown	571.0	W	280573 211010	Old Ironstone Levels	1948
196	576.0	NW	281525 212450	Air Shaft	1877
Not shown	584.0	W	280492 211070	Disused Ironstone Level	1877
Not shown	598.0	W	280557 211002	Air Shaft	1948

ID	Distance (m)	Direction	NGR	Details	Date
Not shown	598.0	W	280557 211002	Air Shaft	1903
Not shown	598.0	W	280557 211002	Air Shaft	1877
201AW	612.0	S	284217 209688	Old Coal Pit	1901
202AW	613.0	S	284220 209688	Old Coal Pit	1948
203AW	613.0	S	284220 209688	Old Coal Pit	1903
Not shown	613.0	W	280506 211079	Disused Ironstone Level	1901
205AU	624.0	NW	280918 211914	Unspecified Disused Level	1987
206AX	658.0	NW	280891 211946	Unspecified Disused Level	1965
Not shown	662.0	W	280488 211030	Unspecified Old Level	1903
208AX	669.0	NW	280885 211936	Unspecified Old Level	1903
209AX	672.0	NW	280884 211938	Old Coal Level	1948
Not shown	703.0	W	280488 210727	Unspecified Old Shaft	1903
Not shown	703.0	W	280488 210727	Old Ironstone Level	1948
Not shown	703.0	W	280488 210727	Old Ironstone Level	1877
213AY	704.0	W	280724 211670	Old Ironstone Level	1877
Not shown	707.0	W	280485 210722	Disused Ironstone Pit	1901
Not shown	709.0	W	280477 210713	Disused Ironstone Pit	1877
216AZ	720.0	NW	280637 211522	Old Ironstone Level	1877
Not shown	725.0	W	280459 210763	Unspecified Disused Level	1987
218AY	737.0	NW	280650 211567	Unspecified Level	1877
Not shown	743.0	W	280384 210823	Disused Ironstone Level	1877
Not shown	754.0	W	280396 210846	Old Ironstone Level	1948
Not shown	755.0	W	280408 211164	Disused Old Ironstone Level	1901
Not shown	755.0	W	280407 211164	Unspecified Old Level	1903
223AZ	764.0	NW	280631 211582	Old Ironstone Level	1877
224BC	782.0	SE	285954 209248	Colliery	1948
225BA	788.0	NW	281143 212430	Old Coal Shaft	1948
226BA	788.0	NW	281143 212430	Unspecified Shaft	1903
227BB	801.0	S	282186 209202	Colliery	1948

ID	Distance (m)	Direction	NGR	Details	Date
228BB	806.0	S	282091 209140	Colliery	1901
229BE	810.0	NW	280740 212048	Unspecified Disused Level	1987
230BB	811.0	S	282134 209184	Unspecified Mine	1988
231BB	811.0	S	282134 209184	Unspecified Mine	1964
Not shown	814.0	NW	280440 211586	Old Coal Level	1877
Not shown	839.0	W	280318 210838	Unspecified Disused Level	1965
Not shown	840.0	W	280312 210836	Unspecified Old Level	1903
Not shown	845.0	W	280307 210830	Disused Ironstone Level	1901
Not shown	858.0	SW	280476 210329	Trial Shaft	1948
Not shown	861.0	W	280355 210562	Unspecified Old Shaft	1903
Not shown	864.0	SW	280469 210327	Unspecified Disused Shaft	1965
Not shown	864.0	SW	280469 210327	Unspecified Disused Shaft	1987
240BC	864.0	SE	285949 209246	Unspecified Mine	1980
241BC	864.0	SE	285949 209246	Unspecified Mine	1964
Not shown	865.0	W	280284 210911	Unspecified Disused Level	1965
Not shown	866.0	W	280279 210907	Unspecified Old Level	1903
Not shown	866.0	W	280279 210907	Old Ironstone Level	1948
Not shown	866.0	W	280279 210907	Ironstone Level	1877
Not shown	868.0	SW	280471 210323	Trial Shaft	1903
Not shown	869.0	W	280357 210562	Disused Ironstone Pit	1901
Not shown	870.0	W	280351 210566	Old Ironstone Shaft	1948
Not shown	873.0	W	280269 210904	Ironstone Level	1901
Not shown	874.0	W	280348 210567	Unspecified Disused Shaft	1987
Not shown	874.0	W	280348 210567	Unspecified Disused Shaft	1965
Not shown	876.0	W	280345 210570	Disused Ironstone Pit	1877
Not shown	880.0	NW	280425 211497	Unspecified Old Shaft	1903
Not shown	883.0	NW	280422 211495	Old Coal Pit	1877
Not shown	884.0	SW	280378 210458	Trial Shaft	1948
Not shown	888.0	SW	280371 210458	Unspecified Disused Shaft	1965

ID	Distance (m)	Direction	NGR	Details	Date
Not shown	888.0	SW	280371 210458	Unspecified Disused Shaft	1987
Not shown	894.0	SW	280370 210452	Trial Shaft	1903
259BD	899.0	S	285438 209317	Air Shaft	1903
Not shown	905.0	W	280312 211317	Old Coal Level	1877
Not shown	907.0	W	280308 211313	Old Coal Level	1901
262BD	913.0	S	285393 209306	Air Shaft	1903
263BD	915.0	S	285393 209305	Air Shaft	1900
264BE	927.0	NW	280577 211967	Unspecified Old Level	1903
265BE	927.0	NW	280577 211967	Old Coal Level	1948
266BE	945.0	NW	280670 212114	Old Coal Levels	1948
267BF	952.0	NW	280686 212157	Unspecified Old Levels	1903
268BD	955.0	S	285496 209269	Air Shaft	1903
269BD	966.0	S	285424 209231	Unspecified Level	1876
270BC	970.0	S	285887 209168	Disused Colliery	1900
Not shown	981.0	NW	280256 211438	Old Coal Level	1877
272BB	982.0	S	282119 209172	Coal Pit	1877
273BF	985.0	NW	280664 212182	Unspecified Old Shaft	1903
Not shown	985.0	NW	280251 211438	Old Coal Level	1901
275BF	986.0	NW	280666 212186	Old Coal Shaft	1877
276BF	988.0	NW	280657 212184	Unspecified Disused Shaft	1987
277BE	997.0	NW	280608 212112	Unspecified Old Levels	1903
Not shown	998.0	W	280230 210538	Air Shaft	1877
279BD	999.0	S	285430 209220	Unspecified Level	1903
Not shown	999.0	W	280159 211138	Disused Air Shaft	1965
Not shown	999.0	W	280159 211138	Disused Air Shaft	1987
282BD	999.0	S	285430 209221	Unspecified Level	1900

5.2 Coal Mining

This dataset provides information as to whether the study site lies within a known coal mining affected area as defined by the coal authority.

Are there any Coal Mining areas within 1000m of the study site boundary? Yes

The following Coal Mining information provided by the Coal Authority is not represented on Mapping:

Distance (m)	Direction	Details
0.0	On Site	The site lies in or in proximity to the coal mining reporting area as defined by the Coal Authority

5.3 Johnson Poole and Bloomer

This dataset provides information as to whether the study site lies within an area where JPB hold information relating to mining.

Are there any JPB Mining areas within 1000m of the study site boundary? No

The following information provided by JPB is not represented on mapping: Database searched and no data found.

5.4 Non-Coal Mining

This dataset provides information as to whether the study site lies within an area which may have been subject to non-coal historic mining.

Are there any Non-Coal Mining areas within 1000m of the study site boundary? Yes

The following non-coal mining information is provided by the BGS:

ID	Distance (m)	Direction	Name	Commodity	Assessment of likelihood
1	0.0	On Site	Not available	Iron Ore (Bedded)	Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered
2	0.0	On Site	Not available	Iron Ore (Bedded)	Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered
3	219.0	S	Not available	Iron Ore (Bedded)	Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered
4	535.0	N	Not available	Vein Mineral	Sporadic underground mining of restricted extent may have occurred. Potential for difficult ground conditions are unlikely and localised and are at a level where they need not be considered

5.5 Non-Coal Mining Cavities

This dataset provides information from the Peter Brett Associates (PBA) mining cavities database (compiled for the national study entitled “Review of mining instability in Great Britain, 1990” PBA has also continued adding to this database) on mineral extraction by mining.

Are there any Non-Coal Mining cavities within 1000m of the study site boundary? No

Database searched and no data found.

5.6 Natural Cavities

This dataset provides information based on the Peter Brett Associates natural cavities database. The dataset is made up of points and polygons. Where polygons are used these represent an area in which it is expected the cavities could be found. It does not indicate that cavities are present everywhere within the polygon, and caution should be used in the interpretation of this data.

Are there any Natural Cavities within 1000m of the study site boundary? No

Database searched and no data found.

5.7 Brine Extraction

This data provides information from the Cheshire Brine Subsidence Compensation Board.

Are there any Brine Extraction areas within 1000m of the study site boundary? No

Database searched and no data found.

5.8 Gypsum Extraction

This dataset provides information on Gypsum extraction from British Gypsum records.

Are there any Gypsum Extraction areas within 1000m of the study site boundary? No

Database searched and no data found.

5.9 Cornwall and Devon Metalliferous Mining

This dataset provides information on metalliferous mining areas in Cornwall/Devon and is derived from records held by Mining Searches UK.

Are there any Cornwall and Devon Metalliferous Mining areas within 1000m of the study site boundary? No

Database searched and no data found.

5.10 Clay Mining

This dataset provides information on Kaolin and Ball Clay mining from relevant mining records.

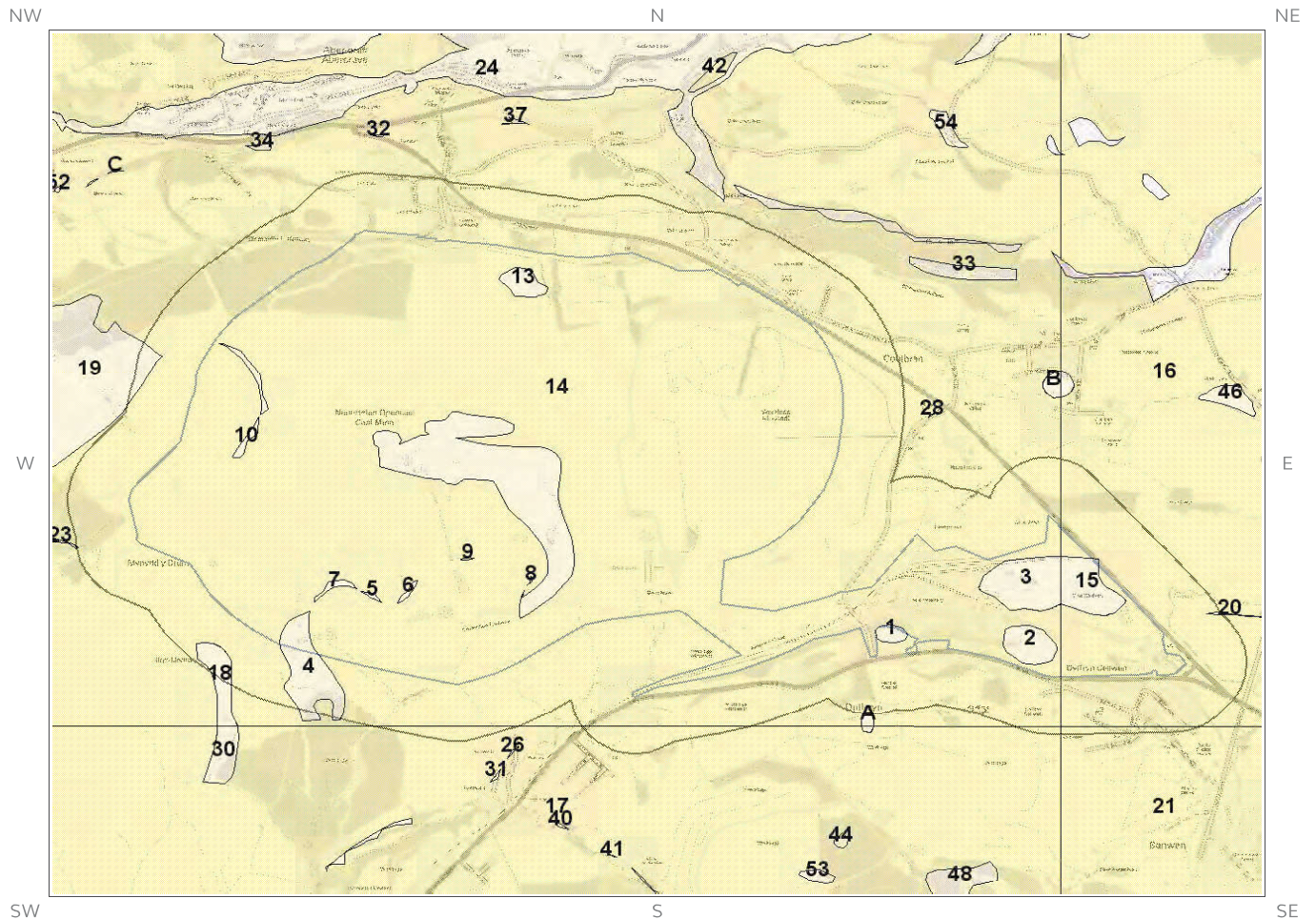
Are there any Clay Mining areas within 1000m of the study site boundary?

No

Database searched and no data found.

6 Natural Ground Subsidence

6.1 Shrink-Swell Clay map

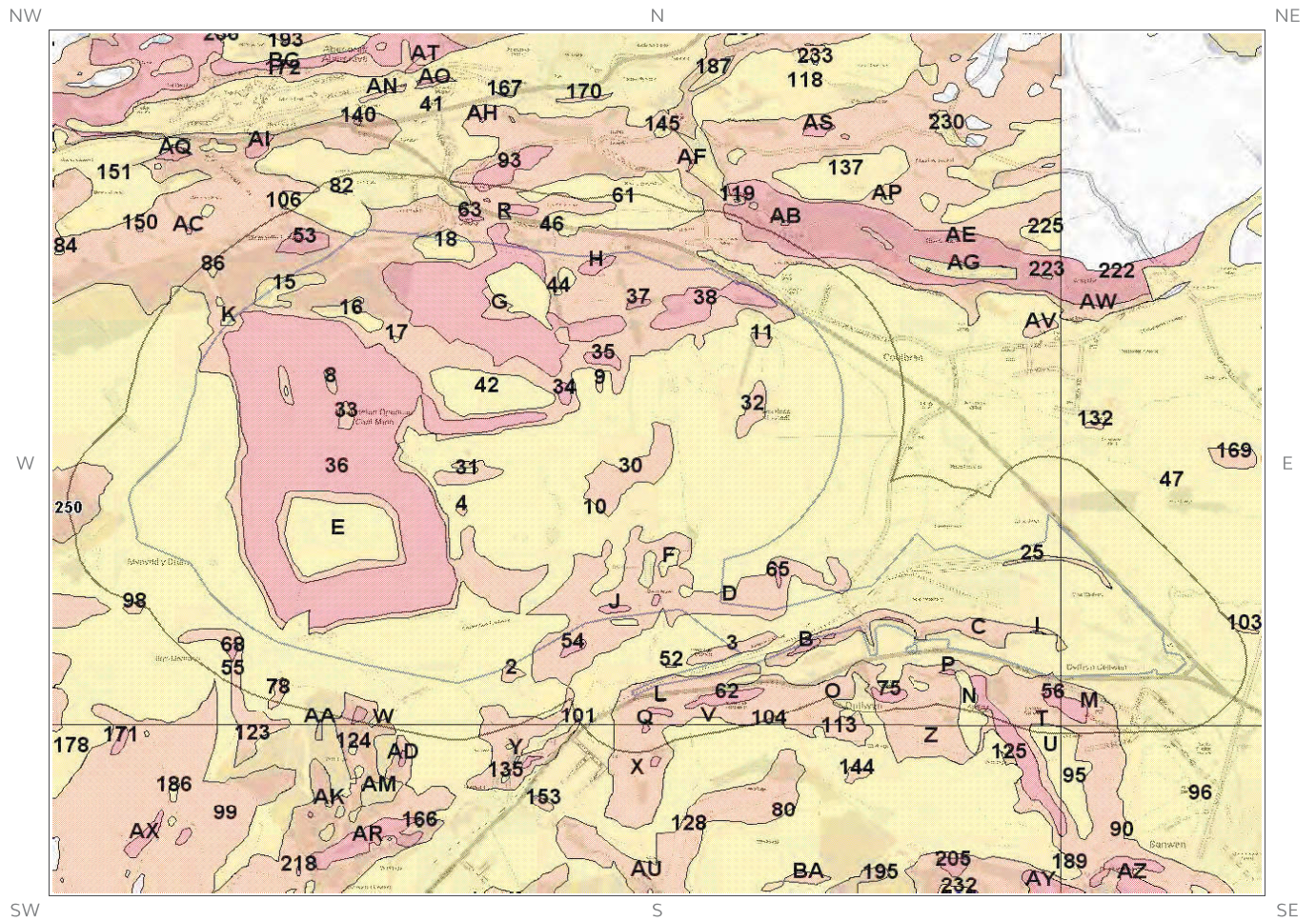


Shrink Swell Clay Legend

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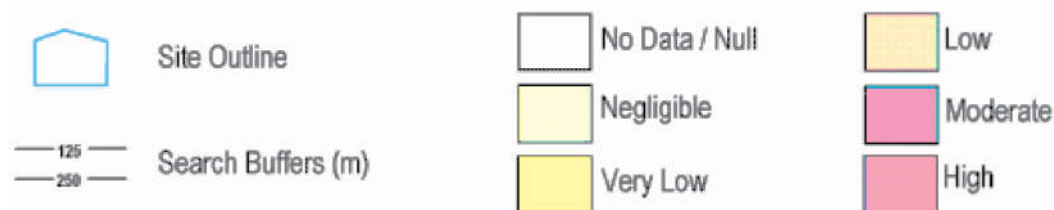


6.2 Landslides map

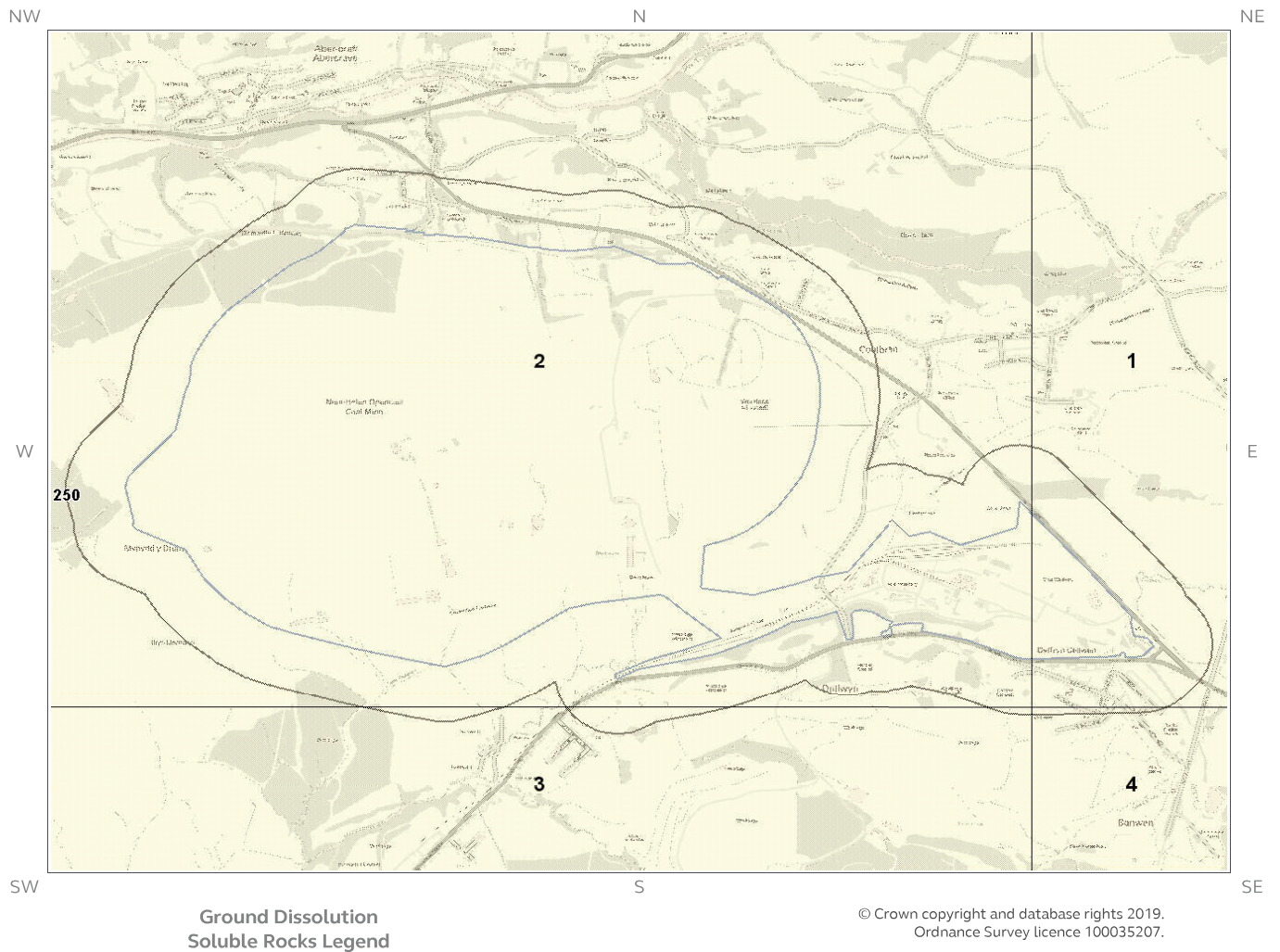


Landslides Legend

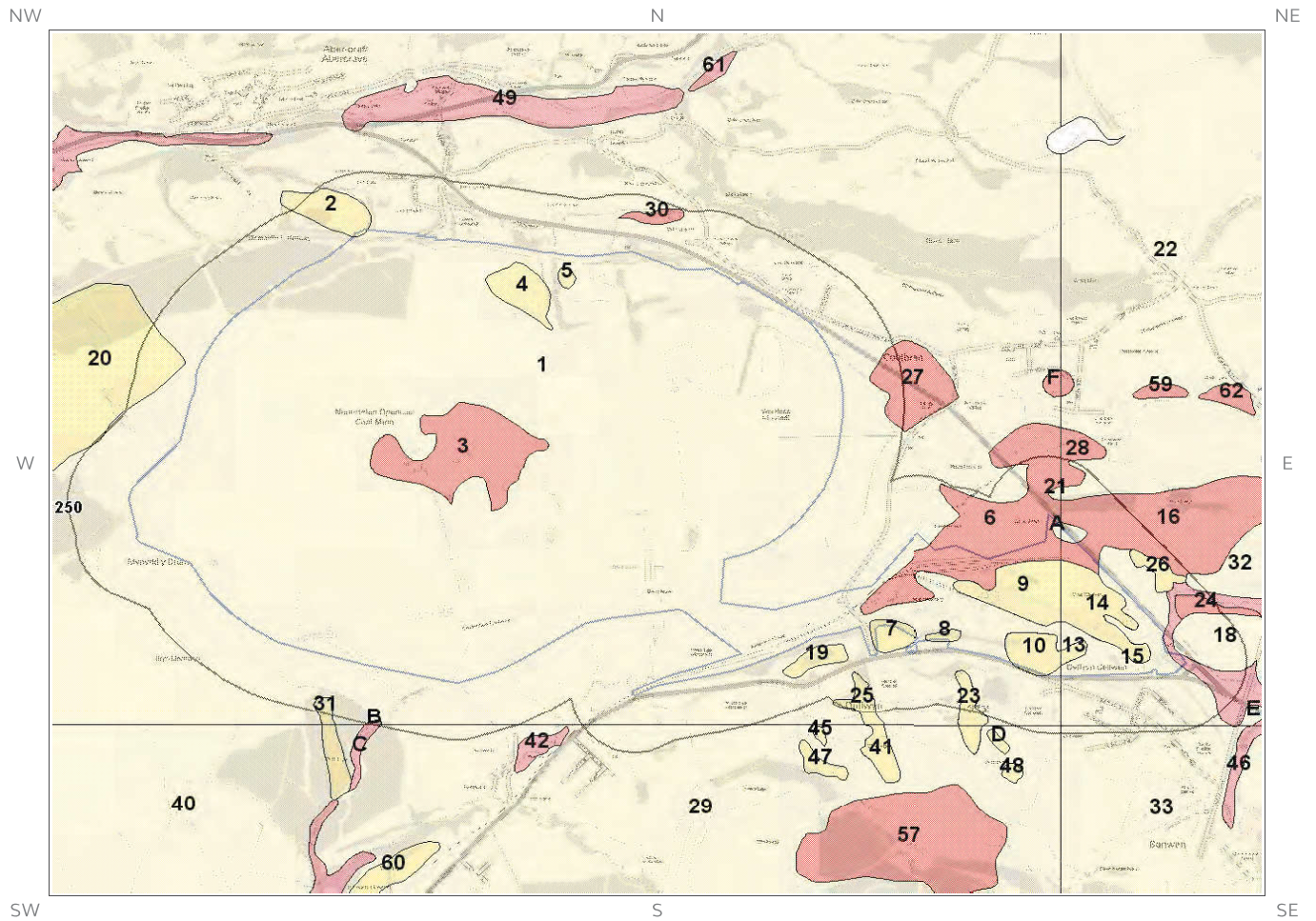
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6.3 Ground Dissolution of Soluble Rocks map



6.4 Compressible Deposits map

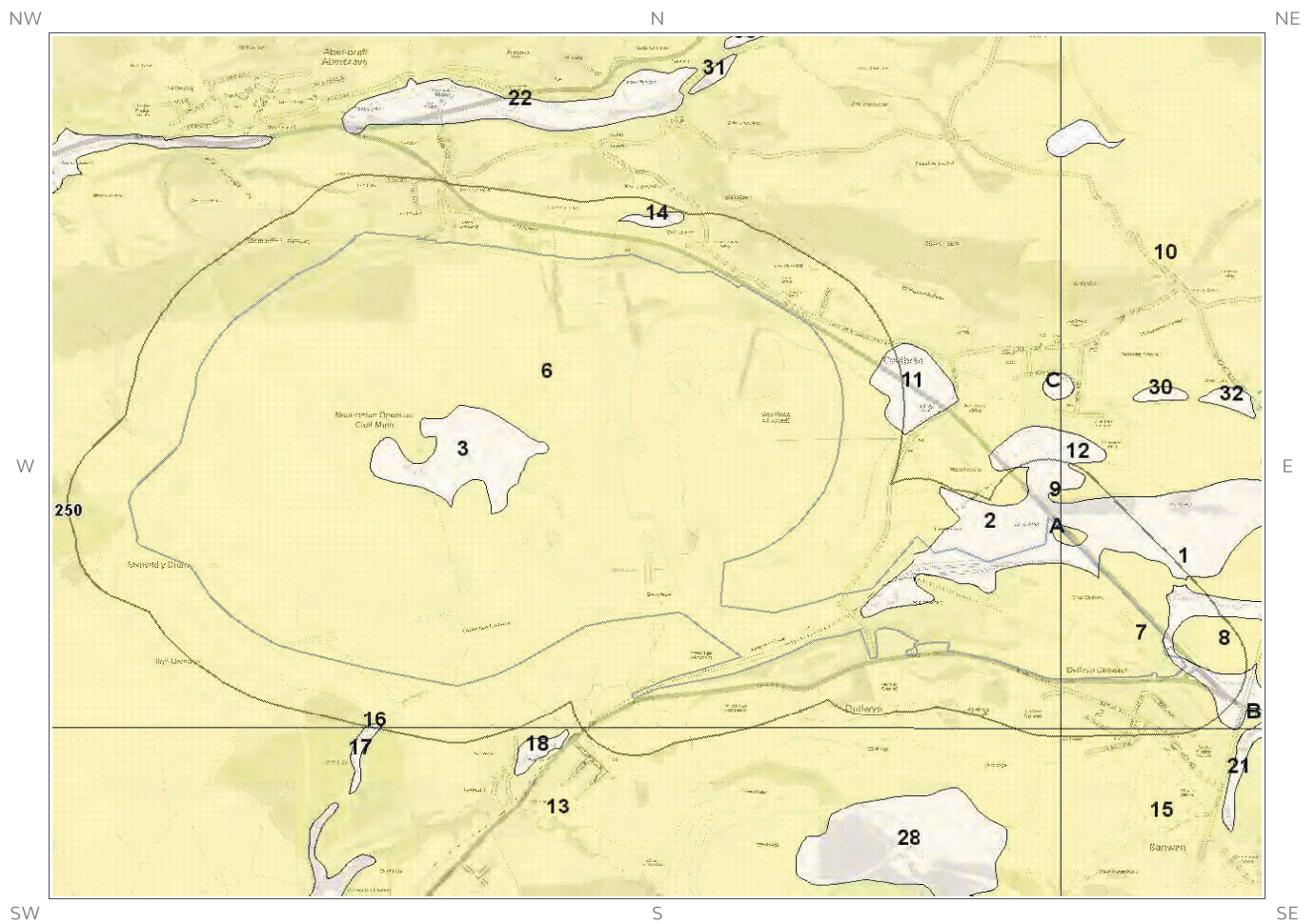


Compressible Deposits Legend

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6.5 Collapsible Deposits map

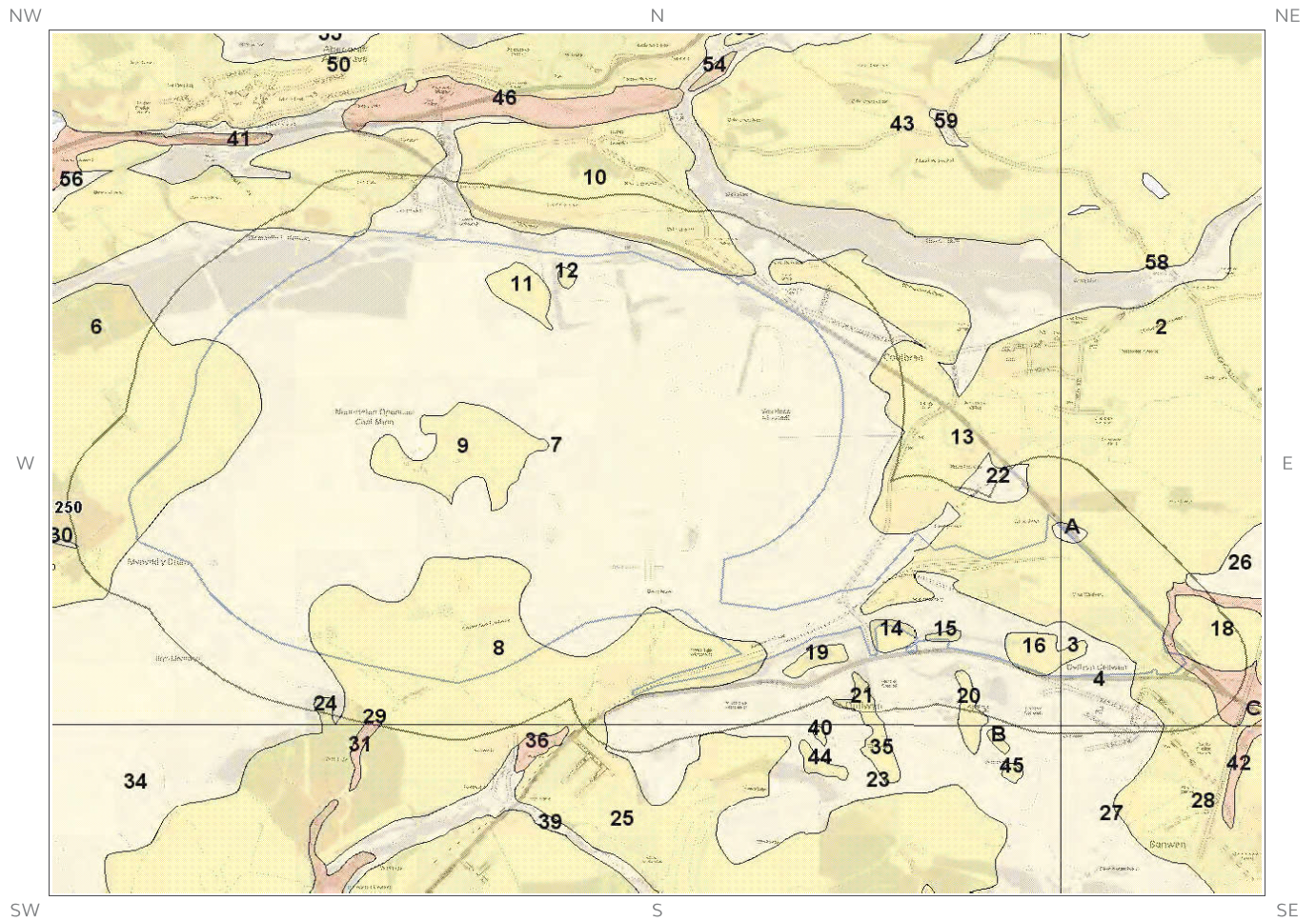


Collapsible Deposits Legend

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6.6 Running Sand map



Running Sand Legend

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6 Natural Ground Subsidence

The National Ground Subsidence rating is obtained through the 6 natural ground stability hazard datasets, which are supplied by the British Geological Survey (BGS).

The following GeoSure data represented on the mapping is derived from the BGS Digital Geological map of Great Britain at 1:50,000 scale.

What is the maximum hazard rating of natural subsidence within the study site* boundary? High

6.1 Shrink-Swell Clays

The following Shrink Swell information provided by the British Geological Survey:

ID	Distance (m)	Direction	Hazard Rating	Details
1	0.0	On Site	Negligible	Ground conditions predominantly non-plastic. No special actions required to avoid problems due to shrink-swell clays. No special ground investigation required, and increased construction costs or increased financial risks are unlikely likely due to potential problems with shrink-swell clays.
2	0.0	On Site	Negligible	Ground conditions predominantly non-plastic. No special actions required to avoid problems due to shrink-swell clays. No special ground investigation required, and increased construction costs or increased financial risks are unlikely likely due to potential problems with shrink-swell clays.
3	0.0	On Site	Negligible	Ground conditions predominantly non-plastic. No special actions required to avoid problems due to shrink-swell clays. No special ground investigation required, and increased construction costs or increased financial risks are unlikely likely due to potential problems with shrink-swell clays.
4	0.0	On Site	Negligible	Ground conditions predominantly non-plastic. No special actions required to avoid problems due to shrink-swell clays. No special ground investigation required, and increased construction costs or increased financial risks are unlikely likely due to potential problems with shrink-swell clays.
5	0.0	On Site	Negligible	Ground conditions predominantly non-plastic. No special actions required to avoid problems due to shrink-swell clays. No special ground investigation required, and increased construction costs or increased financial risks are unlikely likely due to potential problems with shrink-swell clays.

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

ID	Distance (m)	Direction	Hazard Rating	Details
6	0.0	On Site	Negligible	Ground conditions predominantly non-plastic. No special actions required to avoid problems due to shrink-swell clays. No special ground investigation required, and increased construction costs or increased financial risks are unlikely likely due to potential problems with shrink-swell clays.
7	0.0	On Site	Negligible	Ground conditions predominantly non-plastic. No special actions required to avoid problems due to shrink-swell clays. No special ground investigation required, and increased construction costs or increased financial risks are unlikely likely due to potential problems with shrink-swell clays.
8	0.0	On Site	Negligible	Ground conditions predominantly non-plastic. No special actions required to avoid problems due to shrink-swell clays. No special ground investigation required, and increased construction costs or increased financial risks are unlikely likely due to potential problems with shrink-swell clays.
9	0.0	On Site	Negligible	Ground conditions predominantly non-plastic. No special actions required to avoid problems due to shrink-swell clays. No special ground investigation required, and increased construction costs or increased financial risks are unlikely likely due to potential problems with shrink-swell clays.
10	0.0	On Site	Negligible	Ground conditions predominantly non-plastic. No special actions required to avoid problems due to shrink-swell clays. No special ground investigation required, and increased construction costs or increased financial risks are unlikely likely due to potential problems with shrink-swell clays.
11	0.0	On Site	Negligible	Ground conditions predominantly non-plastic. No special actions required to avoid problems due to shrink-swell clays. No special ground investigation required, and increased construction costs or increased financial risks are unlikely likely due to potential problems with shrink-swell clays.
12	0.0	On Site	Negligible	Ground conditions predominantly non-plastic. No special actions required to avoid problems due to shrink-swell clays. No special ground investigation required, and increased construction costs or increased financial risks are unlikely likely due to potential problems with shrink-swell clays.
13	0.0	On Site	Negligible	Ground conditions predominantly non-plastic. No special actions required to avoid problems due to shrink-swell clays. No special ground investigation required, and increased construction costs or increased financial risks are unlikely likely due to potential problems with shrink-swell clays.
14	0.0	On Site	Very Low	Ground conditions predominantly low plasticity. No special actions required to avoid problems due to shrink-swell clays. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with shrink-swell clays.

ID	Distance (m)	Direction	Hazard Rating	Details
15	0.0	On Site	Negligible	Ground conditions predominantly non-plastic. No special actions required to avoid problems due to shrink-swell clays. No special ground investigation required, and increased construction costs or increased financial risks are unlikely likely due to potential problems with shrink-swell clays.
16	0.0	On Site	Very Low	Ground conditions predominantly low plasticity. No special actions required to avoid problems due to shrink-swell clays. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with shrink-swell clays.

6.2 Landslides

The following Landslides information provided by the British Geological Survey:

ID	Distance (m)	Direction	Hazard Rating	Details
10	0.0	On Site	Low	Possibility of slope instability problems after major changes in ground conditions. Consideration should be given to stability if changes to drainage or excavations take place. Possible increase in construction cost to reduce potential slope stability problems. Existing property - no significant increase in insurance risk due to natural slope instability problems.
2	0.0	On Site	Low	Possibility of slope instability problems after major changes in ground conditions. Consideration should be given to stability if changes to drainage or excavations take place. Possible increase in construction cost to reduce potential slope stability problems. Existing property - no significant increase in insurance risk due to natural slope instability problems.
3	0.0	On Site	Low	Possibility of slope instability problems after major changes in ground conditions. Consideration should be given to stability if changes to drainage or excavations take place. Possible increase in construction cost to reduce potential slope stability problems. Existing property - no significant increase in insurance risk due to natural slope instability problems.
4	0.0	On Site	Low	Possibility of slope instability problems after major changes in ground conditions. Consideration should be given to stability if changes to drainage or excavations take place. Possible increase in construction cost to reduce potential slope stability problems. Existing property - no significant increase in insurance risk due to natural slope instability problems.
5C	0.0	On Site	Low	Possibility of slope instability problems after major changes in ground conditions. Consideration should be given to stability if changes to drainage or excavations take place. Possible increase in construction cost to reduce potential slope stability problems. Existing property - no significant increase in insurance risk due to natural slope instability problems.

ID	Distance (m)	Direction	Hazard Rating	Details
6D	0.0	On Site	Low	Possibility of slope instability problems after major changes in ground conditions. Consideration should be given to stability if changes to drainage or excavations take place. Possible increase in construction cost to reduce potential slope stability problems. Existing property - no significant increase in insurance risk due to natural slope instability problems.
7A	0.0	On Site	Low	Possibility of slope instability problems after major changes in ground conditions. Consideration should be given to stability if changes to drainage or excavations take place. Possible increase in construction cost to reduce potential slope stability problems. Existing property - no significant increase in insurance risk due to natural slope instability problems.
8	0.0	On Site	Low	Possibility of slope instability problems after major changes in ground conditions. Consideration should be given to stability if changes to drainage or excavations take place. Possible increase in construction cost to reduce potential slope stability problems. Existing property - no significant increase in insurance risk due to natural slope instability problems.
9	0.0	On Site	Low	Possibility of slope instability problems after major changes in ground conditions. Consideration should be given to stability if changes to drainage or excavations take place. Possible increase in construction cost to reduce potential slope stability problems. Existing property - no significant increase in insurance risk due to natural slope instability problems.
10	0.0	On Site	Very Low	Slope instability problems are unlikely to be present. No special actions required to avoid problems due to landslides. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with landslides.
11	0.0	On Site	Low	Possibility of slope instability problems after major changes in ground conditions. Consideration should be given to stability if changes to drainage or excavations take place. Possible increase in construction cost to reduce potential slope stability problems. Existing property - no significant increase in insurance risk due to natural slope instability problems.
12G	0.0	On Site	Low	Possibility of slope instability problems after major changes in ground conditions. Consideration should be given to stability if changes to drainage or excavations take place. Possible increase in construction cost to reduce potential slope stability problems. Existing property - no significant increase in insurance risk due to natural slope instability problems.
13K	0.0	On Site	Very Low	Slope instability problems are unlikely to be present. No special actions required to avoid problems due to landslides. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with landslides.

ID	Distance (m)	Direction	Hazard Rating	Details
14A	0.0	On Site	Very Low	Slope instability problems are unlikely to be present. No special actions required to avoid problems due to landslides. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with landslides.
15	0.0	On Site	Very Low	Slope instability problems are unlikely to be present. No special actions required to avoid problems due to landslides. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with landslides.
16	0.0	On Site	Very Low	Slope instability problems are unlikely to be present. No special actions required to avoid problems due to landslides. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with landslides.
17	0.0	On Site	Very Low	Slope instability problems are unlikely to be present. No special actions required to avoid problems due to landslides. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with landslides.
18	0.0	On Site	Very Low	Slope instability problems are unlikely to be present. No special actions required to avoid problems due to landslides. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with landslides.
19B	0.0	On Site	Moderate	Significant potential for slope instability with relatively small changes in ground conditions. Avoid large amounts of water entering the ground through pipe leakage or soak-aways. Do not undercut or place large amounts of material on slopes without technical advice. For new build - consider the potential and consequences of ground movement during excavations, or consequence of changes to loading or drainage. For existing property - probable increase in insurance risk is likely due to potential natural slope instability after changes to ground conditions such as a very long, excessively wet winter.
20B	0.0	On Site	Moderate	Significant potential for slope instability with relatively small changes in ground conditions. Avoid large amounts of water entering the ground through pipe leakage or soak-aways. Do not undercut or place large amounts of material on slopes without technical advice. For new build - consider the potential and consequences of ground movement during excavations, or consequence of changes to loading or drainage. For existing property - probable increase in insurance risk is likely due to potential natural slope instability after changes to ground conditions such as a very long, excessively wet winter.

ID	Distance (m)	Direction	Hazard Rating	Details
21I	0.0	On Site	Moderate	Significant potential for slope instability with relatively small changes in ground conditions. Avoid large amounts of water entering the ground through pipe leakage or soak-aways. Do not undercut or place large amounts of material on slopes without technical advice. For new build - consider the potential and consequences of ground movement during excavations, or consequence of changes to loading or drainage. For existing property - probable increase in insurance risk is likely due to potential natural slope instability after changes to ground conditions such as a very long, excessively wet winter.
22C	0.0	On Site	Moderate	Significant potential for slope instability with relatively small changes in ground conditions. Avoid large amounts of water entering the ground through pipe leakage or soak-aways. Do not undercut or place large amounts of material on slopes without technical advice. For new build - consider the potential and consequences of ground movement during excavations, or consequence of changes to loading or drainage. For existing property - probable increase in insurance risk is likely due to potential natural slope instability after changes to ground conditions such as a very long, excessively wet winter.
23J	0.0	On Site	Moderate	Significant potential for slope instability with relatively small changes in ground conditions. Avoid large amounts of water entering the ground through pipe leakage or soak-aways. Do not undercut or place large amounts of material on slopes without technical advice. For new build - consider the potential and consequences of ground movement during excavations, or consequence of changes to loading or drainage. For existing property - probable increase in insurance risk is likely due to potential natural slope instability after changes to ground conditions such as a very long, excessively wet winter.
24D	0.0	On Site	Moderate	Significant potential for slope instability with relatively small changes in ground conditions. Avoid large amounts of water entering the ground through pipe leakage or soak-aways. Do not undercut or place large amounts of material on slopes without technical advice. For new build - consider the potential and consequences of ground movement during excavations, or consequence of changes to loading or drainage. For existing property - probable increase in insurance risk is likely due to potential natural slope instability after changes to ground conditions such as a very long, excessively wet winter.
25	0.0	On Site	Low	Possibility of slope instability problems after major changes in ground conditions. Consideration should be given to stability if changes to drainage or excavations take place. Possible increase in construction cost to reduce potential slope stability problems. Existing property - no significant increase in insurance risk due to natural slope instability problems.

ID	Distance (m)	Direction	Hazard Rating	Details
26E	0.0	On Site	Very Low	Slope instability problems are unlikely to be present. No special actions required to avoid problems due to landslides. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with landslides.
27F	0.0	On Site	Very Low	Slope instability problems are unlikely to be present. No special actions required to avoid problems due to landslides. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with landslides.
28E	0.0	On Site	Low	Possibility of slope instability problems after major changes in ground conditions. Consideration should be given to stability if changes to drainage or excavations take place. Possible increase in construction cost to reduce potential slope stability problems. Existing property - no significant increase in insurance risk due to natural slope instability problems.
29F	0.0	On Site	Very Low	Slope instability problems are unlikely to be present. No special actions required to avoid problems due to landslides. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with landslides.
30	0.0	On Site	Low	Possibility of slope instability problems after major changes in ground conditions. Consideration should be given to stability if changes to drainage or excavations take place. Possible increase in construction cost to reduce potential slope stability problems. Existing property - no significant increase in insurance risk due to natural slope instability problems.
31	0.0	On Site	Low	Possibility of slope instability problems after major changes in ground conditions. Consideration should be given to stability if changes to drainage or excavations take place. Possible increase in construction cost to reduce potential slope stability problems. Existing property - no significant increase in insurance risk due to natural slope instability problems.
32	0.0	On Site	Low	Possibility of slope instability problems after major changes in ground conditions. Consideration should be given to stability if changes to drainage or excavations take place. Possible increase in construction cost to reduce potential slope stability problems. Existing property - no significant increase in insurance risk due to natural slope instability problems.
33	0.0	On Site	Low	Possibility of slope instability problems after major changes in ground conditions. Consideration should be given to stability if changes to drainage or excavations take place. Possible increase in construction cost to reduce potential slope stability problems. Existing property - no significant increase in insurance risk due to natural slope instability problems.

ID	Distance (m)	Direction	Hazard Rating	Details
34	0.0	On Site	Moderate	Significant potential for slope instability with relatively small changes in ground conditions. Avoid large amounts of water entering the ground through pipe leakage or soak-aways. Do not undercut or place large amounts of material on slopes without technical advice. For new build - consider the potential and consequences of ground movement during excavations, or consequence of changes to loading or drainage. For existing property - probable increase in insurance risk is likely due to potential natural slope instability after changes to ground conditions such as a very long, excessively wet winter.
35	0.0	On Site	Moderate	Significant potential for slope instability with relatively small changes in ground conditions. Avoid large amounts of water entering the ground through pipe leakage or soak-aways. Do not undercut or place large amounts of material on slopes without technical advice. For new build - consider the potential and consequences of ground movement during excavations, or consequence of changes to loading or drainage. For existing property - probable increase in insurance risk is likely due to potential natural slope instability after changes to ground conditions such as a very long, excessively wet winter.
36	0.0	On Site	Moderate	Significant potential for slope instability with relatively small changes in ground conditions. Avoid large amounts of water entering the ground through pipe leakage or soak-aways. Do not undercut or place large amounts of material on slopes without technical advice. For new build - consider the potential and consequences of ground movement during excavations, or consequence of changes to loading or drainage. For existing property - probable increase in insurance risk is likely due to potential natural slope instability after changes to ground conditions such as a very long, excessively wet winter.
37	0.0	On Site	Moderate	Significant potential for slope instability with relatively small changes in ground conditions. Avoid large amounts of water entering the ground through pipe leakage or soak-aways. Do not undercut or place large amounts of material on slopes without technical advice. For new build - consider the potential and consequences of ground movement during excavations, or consequence of changes to loading or drainage. For existing property - probable increase in insurance risk is likely due to potential natural slope instability after changes to ground conditions such as a very long, excessively wet winter.

ID	Distance (m)	Direction	Hazard Rating	Details
38	0.0	On Site	Moderate	Significant potential for slope instability with relatively small changes in ground conditions. Avoid large amounts of water entering the ground through pipe leakage or soak-aways. Do not undercut or place large amounts of material on slopes without technical advice. For new build - consider the potential and consequences of ground movement during excavations, or consequence of changes to loading or drainage. For existing property - probable increase in insurance risk is likely due to potential natural slope instability after changes to ground conditions such as a very long, excessively wet winter.
39H	0.0	On Site	Moderate	Significant potential for slope instability with relatively small changes in ground conditions. Avoid large amounts of water entering the ground through pipe leakage or soak-aways. Do not undercut or place large amounts of material on slopes without technical advice. For new build - consider the potential and consequences of ground movement during excavations, or consequence of changes to loading or drainage. For existing property - probable increase in insurance risk is likely due to potential natural slope instability after changes to ground conditions such as a very long, excessively wet winter.
40G	0.0	On Site	Moderate	Significant potential for slope instability with relatively small changes in ground conditions. Avoid large amounts of water entering the ground through pipe leakage or soak-aways. Do not undercut or place large amounts of material on slopes without technical advice. For new build - consider the potential and consequences of ground movement during excavations, or consequence of changes to loading or drainage. For existing property - probable increase in insurance risk is likely due to potential natural slope instability after changes to ground conditions such as a very long, excessively wet winter.
41	0.0	On Site	Very Low	Slope instability problems are unlikely to be present. No special actions required to avoid problems due to landslides. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with landslides.
42	0.0	On Site	Very Low	Slope instability problems are unlikely to be present. No special actions required to avoid problems due to landslides. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with landslides.
43G	0.0	On Site	Very Low	Slope instability problems are unlikely to be present. No special actions required to avoid problems due to landslides. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with landslides.

ID	Distance (m)	Direction	Hazard Rating	Details
44	0.0	On Site	Very Low	Slope instability problems are unlikely to be present. No special actions required to avoid problems due to landslides. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with landslides.
45H	0.0	On Site	Very Low	Slope instability problems are unlikely to be present. No special actions required to avoid problems due to landslides. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with landslides.
46	0.0	On Site	Low	Possibility of slope instability problems after major changes in ground conditions. Consideration should be given to stability if changes to drainage or excavations take place. Possible increase in construction cost to reduce potential slope stability problems. Existing property - no significant increase in insurance risk due to natural slope instability problems.
47	0.0	On Site	Very Low	Slope instability problems are unlikely to be present. No special actions required to avoid problems due to landslides. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with landslides.
48I	0.0	On Site	Low	Possibility of slope instability problems after major changes in ground conditions. Consideration should be given to stability if changes to drainage or excavations take place. Possible increase in construction cost to reduce potential slope stability problems. Existing property - no significant increase in insurance risk due to natural slope instability problems.
49	0.0	On Site	Low	Possibility of slope instability problems after major changes in ground conditions. Consideration should be given to stability if changes to drainage or excavations take place. Possible increase in construction cost to reduce potential slope stability problems. Existing property - no significant increase in insurance risk due to natural slope instability problems.
50J	5.0	S	Very Low	Slope instability problems are unlikely to be present. No special actions required to avoid problems due to landslides. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with landslides.
51M	20.0	S	Low	Possibility of slope instability problems after major changes in ground conditions. Consideration should be given to stability if changes to drainage or excavations take place. Possible increase in construction cost to reduce potential slope stability problems. Existing property - no significant increase in insurance risk due to natural slope instability problems.

ID	Distance (m)	Direction	Hazard Rating	Details
52	27.0	N	Low	Possibility of slope instability problems after major changes in ground conditions. Consideration should be given to stability if changes to drainage or excavations take place. Possible increase in construction cost to reduce potential slope stability problems. Existing property - no significant increase in insurance risk due to natural slope instability problems.
53	36.0	NW	Moderate	Significant potential for slope instability with relatively small changes in ground conditions. Avoid large amounts of water entering the ground through pipe leakage or soak-aways. Do not undercut or place large amounts of material on slopes without technical advice. For new build - consider the potential and consequences of ground movement during excavations, or consequence of changes to loading or drainage. For existing property - probable increase in insurance risk is likely due to potential natural slope instability after changes to ground conditions such as a very long, excessively wet winter.
54	43.0	SE	Moderate	Significant potential for slope instability with relatively small changes in ground conditions. Avoid large amounts of water entering the ground through pipe leakage or soak-aways. Do not undercut or place large amounts of material on slopes without technical advice. For new build - consider the potential and consequences of ground movement during excavations, or consequence of changes to loading or drainage. For existing property - probable increase in insurance risk is likely due to potential natural slope instability after changes to ground conditions such as a very long, excessively wet winter.
55	47.0	SW	Low	Possibility of slope instability problems after major changes in ground conditions. Consideration should be given to stability if changes to drainage or excavations take place. Possible increase in construction cost to reduce potential slope stability problems. Existing property - no significant increase in insurance risk due to natural slope instability problems.

6.3 Ground Dissolution of Soluble Rocks

The following Ground Dissolution information provided by the British Geological Survey:

ID	Distance (m)	Direction	Hazard Rating	Details
1	0.0	On Site	Negligible	Soluble rocks are present, but unlikely to cause problems except under exceptional conditions. No special actions required to avoid problems due to soluble rocks. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with soluble rocks.
2	0.0	On Site	Negligible	Soluble rocks are present, but unlikely to cause problems except under exceptional conditions. No special actions required to avoid problems due to soluble rocks. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with soluble rocks.

6.4 Compressible Deposits

The following Compressible Deposits information provided by the British Geological Survey:

ID	Distance (m)	Direction	Hazard Rating	Details
1	0.0	On Site	Negligible	No indicators for compressible deposits identified. No special actions required to avoid problems due to compressible deposits. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with compressible deposits.
2	0.0	On Site	Very Low	Very low potential for compressible deposits to be present. No special actions required to avoid problems due to compressible deposits. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with compressible deposits.
3	0.0	On Site	High	Very significant potential for compressibility problems. Avoid large differential loadings of ground. Do not drain or de-water ground near the property without technical advice. For new build - consider possibility of compressible ground in ground investigation, construction and building design. Consider effects of groundwater changes. Construction may not be possible at economic cost. For existing property - probable increase in insurance risk from compressibility especially if water conditions or loading of the ground change significantly.
4	0.0	On Site	Very Low	Very low potential for compressible deposits to be present. No special actions required to avoid problems due to compressible deposits. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with compressible deposits.
5	0.0	On Site	Very Low	Very low potential for compressible deposits to be present. No special actions required to avoid problems due to compressible deposits. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with compressible deposits.
6	0.0	On Site	High	Very significant potential for compressibility problems. Avoid large differential loadings of ground. Do not drain or de-water ground near the property without technical advice. For new build - consider possibility of compressible ground in ground investigation, construction and building design. Consider effects of groundwater changes. Construction may not be possible at economic cost. For existing property - probable increase in insurance risk from compressibility especially if water conditions or loading of the ground change significantly.
7	0.0	On Site	Very Low	Very low potential for compressible deposits to be present. No special actions required to avoid problems due to compressible deposits. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with compressible deposits.
8	0.0	On Site	Very Low	Very low potential for compressible deposits to be present. No special actions required to avoid problems due to compressible deposits. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with compressible deposits.
9	0.0	On Site	Very Low	Very low potential for compressible deposits to be present. No special actions required to avoid problems due to compressible deposits. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with compressible deposits.
10	0.0	On Site	Very Low	Very low potential for compressible deposits to be present. No special actions required to avoid problems due to compressible deposits. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with compressible deposits.
11A	0.0	On Site	Negligible	No indicators for compressible deposits identified. No special actions required to avoid problems due to compressible deposits. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with compressible deposits.
12A	0.0	On Site	Negligible	No indicators for compressible deposits identified. No special actions required to avoid problems due to compressible deposits. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with compressible deposits.

ID	Distance (m)	Direction	Hazard Rating	Details
13	0.0	On Site	Very Low	Very low potential for compressible deposits to be present. No special actions required to avoid problems due to compressible deposits. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with compressible deposits.
14	0.0	On Site	Very Low	Very low potential for compressible deposits to be present. No special actions required to avoid problems due to compressible deposits. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with compressible deposits.
15	0.0	On Site	Negligible	No indicators for compressible deposits identified. No special actions required to avoid problems due to compressible deposits. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with compressible deposits.
16	0.0	On Site	High	Very significant potential for compressibility problems. Avoid large differential loadings of ground. Do not drain or de-water ground near the property without technical advice. For new build - consider possibility of compressible ground in ground investigation, construction and building design. Consider effects of groundwater changes. Construction may not be possible at economic cost. For existing property - probable increase in insurance risk from compressibility especially if water conditions or loading of the ground change significantly.
17	0.0	On Site	Moderate	Significant potential for compressibility problems. Avoid large differential loadings of ground. Do not drain or de-water ground near the property without technical advice. For new build - consider possibility of compressible ground in ground investigation, construction and building design. Consider effects of groundwater changes. Extra construction costs are likely. For existing property - possible increase in insurance risk from compressibility, especially if water conditions or loading of the ground change significantly.
18	4.0	NE	Negligible	No indicators for compressible deposits identified. No special actions required to avoid problems due to compressible deposits. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with compressible deposits.
19	36.0	SE	Very Low	Very low potential for compressible deposits to be present. No special actions required to avoid problems due to compressible deposits. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with compressible deposits.

6.5 Collapsible Deposits

The following Collapsible Rocks information provided by the British Geological Survey:

ID	Distance (m)	Direction	Hazard Rating	Details
1	0.0	On Site	Negligible	No indicators for collapsible deposits identified. No actions required to avoid problems due to collapsible deposits. No special ground investigation required, or increased construction costs or increased financial risk due to potential problems with collapsible deposits.
2	0.0	On Site	Negligible	No indicators for collapsible deposits identified. No actions required to avoid problems due to collapsible deposits. No special ground investigation required, or increased construction costs or increased financial risk due to potential problems with collapsible deposits.
3	0.0	On Site	Negligible	No indicators for collapsible deposits identified. No actions required to avoid problems due to collapsible deposits. No special ground investigation required, or increased construction costs or increased financial risk due to potential problems with collapsible deposits.
4A	0.0	On Site	Very Low	Deposits with potential to collapse when loaded and saturated are unlikely to be present. No special ground investigation required or increased construction costs or increased financial risk due to potential problems with collapsible deposits.
5A	0.0	On Site	Very Low	Deposits with potential to collapse when loaded and saturated are unlikely to be present. No special ground investigation required or increased construction costs or increased financial risk due to potential problems with collapsible deposits.

ID	Distance (m)	Direction	Hazard Rating	Details
6	0.0	On Site	Very Low	Deposits with potential to collapse when loaded and saturated are unlikely to be present. No special ground investigation required or increased construction costs or increased financial risk due to potential problems with collapsible deposits.
7	0.0	On Site	Very Low	Deposits with potential to collapse when loaded and saturated are unlikely to be present. No special ground investigation required or increased construction costs or increased financial risk due to potential problems with collapsible deposits.
8	4.0	NE	Very Low	Deposits with potential to collapse when loaded and saturated are unlikely to be present. No special ground investigation required or increased construction costs or increased financial risk due to potential problems with collapsible deposits.

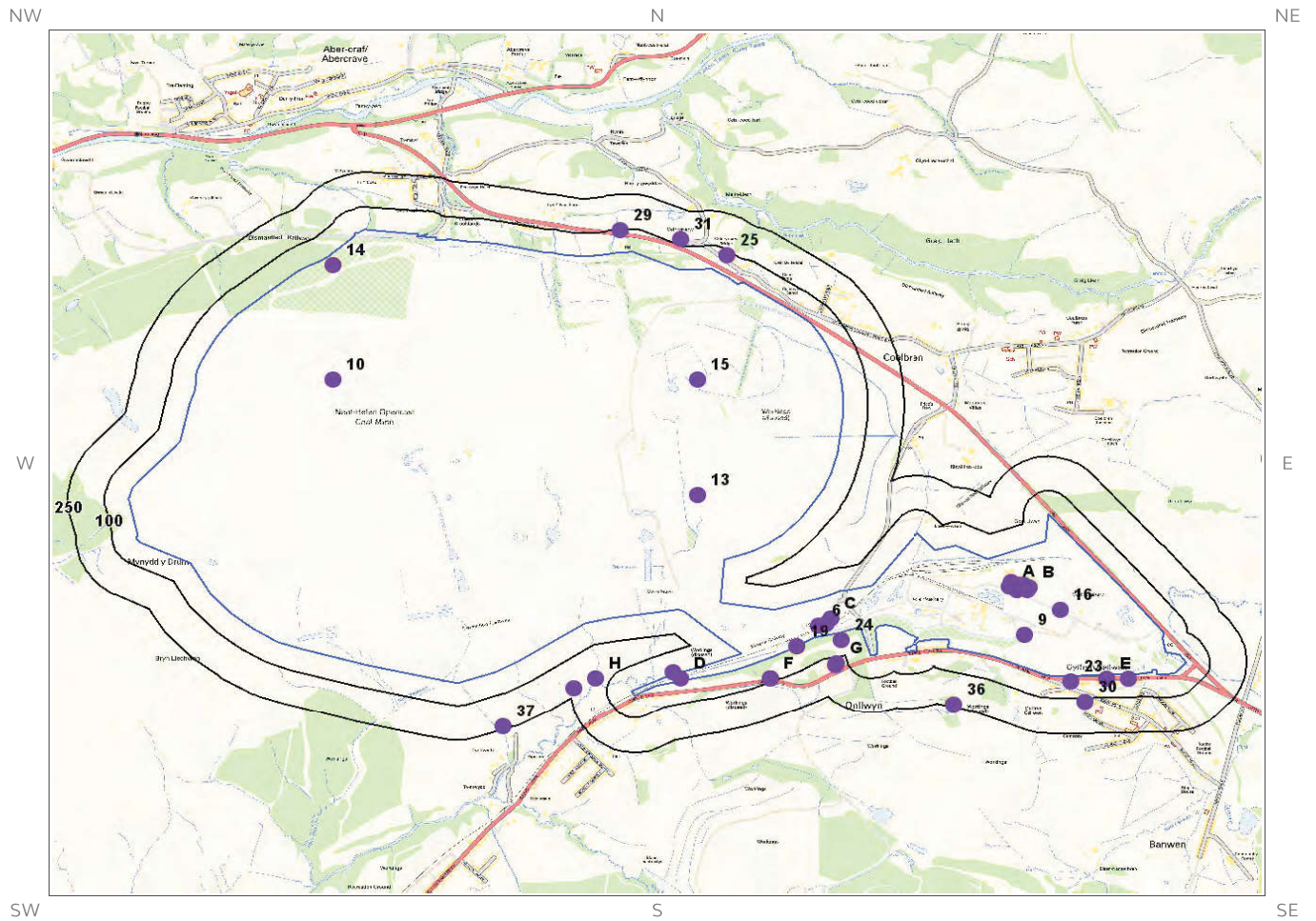
6.6 Running Sands

The following Running Sands information provided by the British Geological Survey:

ID	Distance (m)	Direction	Hazard Rating	Details
1A	0.0	On Site	Negligible	No indicators for running sand identified. No special actions required to avoid problems due to running sand. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with running sand.
2	0.0	On Site	Very Low	Very low potential for running sand problems if water table rises or if sandy strata are exposed to water. No special actions required, to avoid problems due to running sand. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with running sand.
3	0.0	On Site	Very Low	Very low potential for running sand problems if water table rises or if sandy strata are exposed to water. No special actions required, to avoid problems due to running sand. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with running sand.
4	0.0	On Site	Negligible	No indicators for running sand identified. No special actions required to avoid problems due to running sand. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with running sand.
5	0.0	On Site	Low	Possibility of running sand problems after major changes in ground conditions. Normal maintenance to avoid leakage of water-bearing services or water bodies (ponds, swimming pools) should reduce likelihood of problems due to running sand. For new build - consider possibility of running sand into trenches or excavations if water table is high or sandy strata are exposed to water. Avoid concentrated water inputs to site. Unlikely to be an increase in construction costs due to potential for running sand. For existing property - no significant increase in insurance risk due to running sand problems is likely.
6	0.0	On Site	Very Low	Very low potential for running sand problems if water table rises or if sandy strata are exposed to water. No special actions required, to avoid problems due to running sand. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with running sand.
7	0.0	On Site	Negligible	No indicators for running sand identified. No special actions required to avoid problems due to running sand. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with running sand.
8	0.0	On Site	Very Low	Very low potential for running sand problems if water table rises or if sandy strata are exposed to water. No special actions required, to avoid problems due to running sand. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with running sand.

ID	Distance (m)	Direction	Hazard Rating	Details
9	0.0	On Site	Very Low	Very low potential for running sand problems if water table rises or if sandy strata are exposed to water. No special actions required, to avoid problems due to running sand. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with running sand.
10	0.0	On Site	Very Low	Very low potential for running sand problems if water table rises or if sandy strata are exposed to water. No special actions required, to avoid problems due to running sand. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with running sand.
11	0.0	On Site	Very Low	Very low potential for running sand problems if water table rises or if sandy strata are exposed to water. No special actions required, to avoid problems due to running sand. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with running sand.
12	0.0	On Site	Very Low	Very low potential for running sand problems if water table rises or if sandy strata are exposed to water. No special actions required, to avoid problems due to running sand. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with running sand.
13	0.0	On Site	Very Low	Very low potential for running sand problems if water table rises or if sandy strata are exposed to water. No special actions required, to avoid problems due to running sand. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with running sand.
14	0.0	On Site	Very Low	Very low potential for running sand problems if water table rises or if sandy strata are exposed to water. No special actions required, to avoid problems due to running sand. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with running sand.
15	0.0	On Site	Very Low	Very low potential for running sand problems if water table rises or if sandy strata are exposed to water. No special actions required, to avoid problems due to running sand. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with running sand.
16	0.0	On Site	Very Low	Very low potential for running sand problems if water table rises or if sandy strata are exposed to water. No special actions required, to avoid problems due to running sand. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with running sand.
17A	0.0	On Site	Negligible	No indicators for running sand identified. No special actions required to avoid problems due to running sand. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with running sand.
18	4.0	NE	Very Low	Very low potential for running sand problems if water table rises or if sandy strata are exposed to water. No special actions required, to avoid problems due to running sand. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with running sand.
19	36.0	SE	Very Low	Very low potential for running sand problems if water table rises or if sandy strata are exposed to water. No special actions required, to avoid problems due to running sand. No special ground investigation required, and increased construction costs or increased financial risks are unlikely due to potential problems with running sand.

7 Borehole Records map



Borehole Records Legend

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7 Borehole Records

The systematic analysis of data extracted from the BGS Borehole Records database provides the following information.

Records of boreholes within 250m of the study site boundary:

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ID	Distance (m)	Direction	NGR	BGS Reference	Drilled Length	Borehole Name
1D	0.0	On Site	283430 210200	SN81SW11	15.85	YSTRADGYNLAIS- ONLLWYN ROAD 41
2C	0.0	On Site	284050 210460	SN81SW39	1.5	NANT HELEN O C C S TP3
3B	0.0	On Site	284869 210600	SN81SW35	22	ONLLWYN 7
4A	0.0	On Site	284787 210602	SN81SW30	30	ONLLWYN 2
5A	0.0	On Site	284813 210603	SN81SW32	24	ONLLWYN 4
6	0.0	On Site	284000 210430	SN81SW37	1.9	NANT HELEN O C C S TP1
7A	0.0	On Site	284795 210621	SN81SW29	25.55	ONLLWYN 1
8B	0.0	On Site	284824 210610	SN81SW33	24	ONLLWYN 5
9	0.0	On Site	284850 210390	SN81SW19	45.11	ONLLWYN TIP. ON10
10	0.0	On Site	282000 211500	SN81SW2	Not Available	ABERCRAVE, 579
11C	0.0	On Site	284030 210440	SN81SW38	2	NANT HELEN O C C S TP2
12B	0.0	On Site	284862 210586	SN81SW36	23	ONLLWYN 8
13	0.0	On Site	283500 211000	SN81SW1	Not Available	ONLLWYN, O/C SITE. 070402
14	0.0	On Site	282000 212000	SN81SW28	Not Available	ABERCRAVE & INTERNATIONAL COLLIERY
15	0.0	On Site	283500 211500	SN81SW5	Not Available	CEFN BYRLE, 880
16	0.0	On Site	285000 210500	SN81SE1	Not Available	LLWYND PCA, 547
17A	0.0	On Site	284845 210609	SN81SW34	24	ONLLWYN 6
18A	0.0	On Site	284818 210585	SN81SW31	24	ONLLWYN 3
19	2.0	SE	283910 210340	SN81SW20	24.38	ONLLWYN TIP. ON11
20D	10.0	N	283400 210230	SN81SW10	14.63	YSTRADGYNLAIS- ONLLWYN ROAD 40
21E	21.0	S	285190 210200	SN81SE5	4	DYFFRYN CELLWEN NEATH L2
22E	23.0	S	285280 210200	SN81SE6	4	DYFFRYN CELLWEN NEATH L3

ID	Distance (m)	Direction	NGR	BGS Reference	Drilled Length	Borehole Name
23	27.0	S	285040 210190	SN81SE4	5	DYFFRYN CELLWEN NEATH L1
24	31.0	S	284090 210370	SN81SW17	23.16	ONLLWYN TIP. ON7
25	78.0	NE	283620 212040	SN81SW42	Not Available	COELBEREN SEWER RELIEF TP 3
26F	86.0	S	283800 210200	SN81SW43	Not Available	DRYM PIT ONLLWYN
27F	86.0	S	283800 210200	SN81SW46	Not Available	DRYM TRIAL PIT ONLLWYN
28F	86.0	S	283800 210200	SN81SW47	Not Available	CROSS MEASURE DRIFT, ONLLWYN NO.1 COLLIERY
29	93.0	N	283180 212150	SN81SW40	Not Available	COELBEREN SEWER RELIEF TP 1
30	119.0	S	285100 210100	SN81SE2	Not Available	CELLWN, 404
31	121.0	N	283430 212110	SN81SW41	Not Available	COELBEREN SEWER RELIEF TP 2
32G	129.0	S	284073 210268	SN81SW12	24.38	ONLLWYN TIP. ON1
33G	137.0	S	284070 210260	SN81SW13	9.14	ONLLWYN TIP. ON1A
34H	157.0	W	283080 210200	SN81SW9	7.62	YSTRADGYNLAIS- ONLLWYN ROAD 39
35H	218.0	SE	282990 210160	SN81SW8	7.62	YSTRADGYNLAIS- ONLLWYN ROAD 38
36	239.0	S	284560 210090	SN81SW16	15.54	ONLLWYN TIP. ON4
37	240.0	S	282700 209990	SN80NW29	7.77	YSTRADGYNLAIS- ONLLWYN RD 37

The borehole records are available using the hyperlinks below: Please note that if the donor of the borehole record has requested the information be held as commercial-in-confidence, the additional data will be held separately by the BGS and a formal request must be made for its release.

#1D: scans.bgs.ac.uk/sobi_scans/boreholes/258497
#2C: scans.bgs.ac.uk/sobi_scans/boreholes/258525
#3B: scans.bgs.ac.uk/sobi_scans/boreholes/258521
#4A: scans.bgs.ac.uk/sobi_scans/boreholes/258516
#5A: scans.bgs.ac.uk/sobi_scans/boreholes/258518
#6: scans.bgs.ac.uk/sobi_scans/boreholes/258523
#7A: scans.bgs.ac.uk/sobi_scans/boreholes/258515
#8B: scans.bgs.ac.uk/sobi_scans/boreholes/258519
#9: scans.bgs.ac.uk/sobi_scans/boreholes/258505
#10: scans.bgs.ac.uk/sobi_scans/boreholes/258488
#11C: scans.bgs.ac.uk/sobi_scans/boreholes/258524
#12B: scans.bgs.ac.uk/sobi_scans/boreholes/258522
#13: scans.bgs.ac.uk/sobi_scans/boreholes/258487
#14: scans.bgs.ac.uk/sobi_scans/boreholes/258514
#15: scans.bgs.ac.uk/sobi_scans/boreholes/258491
#16: scans.bgs.ac.uk/sobi_scans/boreholes/258479
#17A: scans.bgs.ac.uk/sobi_scans/boreholes/258520
#18A: scans.bgs.ac.uk/sobi_scans/boreholes/258517
#19: scans.bgs.ac.uk/sobi_scans/boreholes/258506
#20D: scans.bgs.ac.uk/sobi_scans/boreholes/258496
#21E: scans.bgs.ac.uk/sobi_scans/boreholes/258483
#22E: scans.bgs.ac.uk/sobi_scans/boreholes/258484
#23: scans.bgs.ac.uk/sobi_scans/boreholes/258482
#24: scans.bgs.ac.uk/sobi_scans/boreholes/258503
#26F: scans.bgs.ac.uk/sobi_scans/boreholes/258529
#27F: scans.bgs.ac.uk/sobi_scans/boreholes/258532
#28F: scans.bgs.ac.uk/sobi_scans/boreholes/258533
#30: scans.bgs.ac.uk/sobi_scans/boreholes/258480
#32G: scans.bgs.ac.uk/sobi_scans/boreholes/258498
#33G: scans.bgs.ac.uk/sobi_scans/boreholes/258499
#34H: scans.bgs.ac.uk/sobi_scans/boreholes/258495
#35H: scans.bgs.ac.uk/sobi_scans/boreholes/258494
#36: scans.bgs.ac.uk/sobi_scans/boreholes/258502
#37: scans.bgs.ac.uk/sobi_scans/boreholes/258113

8 Estimated Background Soil Chemistry

Records of background estimated soil chemistry within 250m of the study site boundary:

142

For further information on how this data is calculated and limitations upon its use, please see the Groundsure Geo Insight User Guide, available on request.

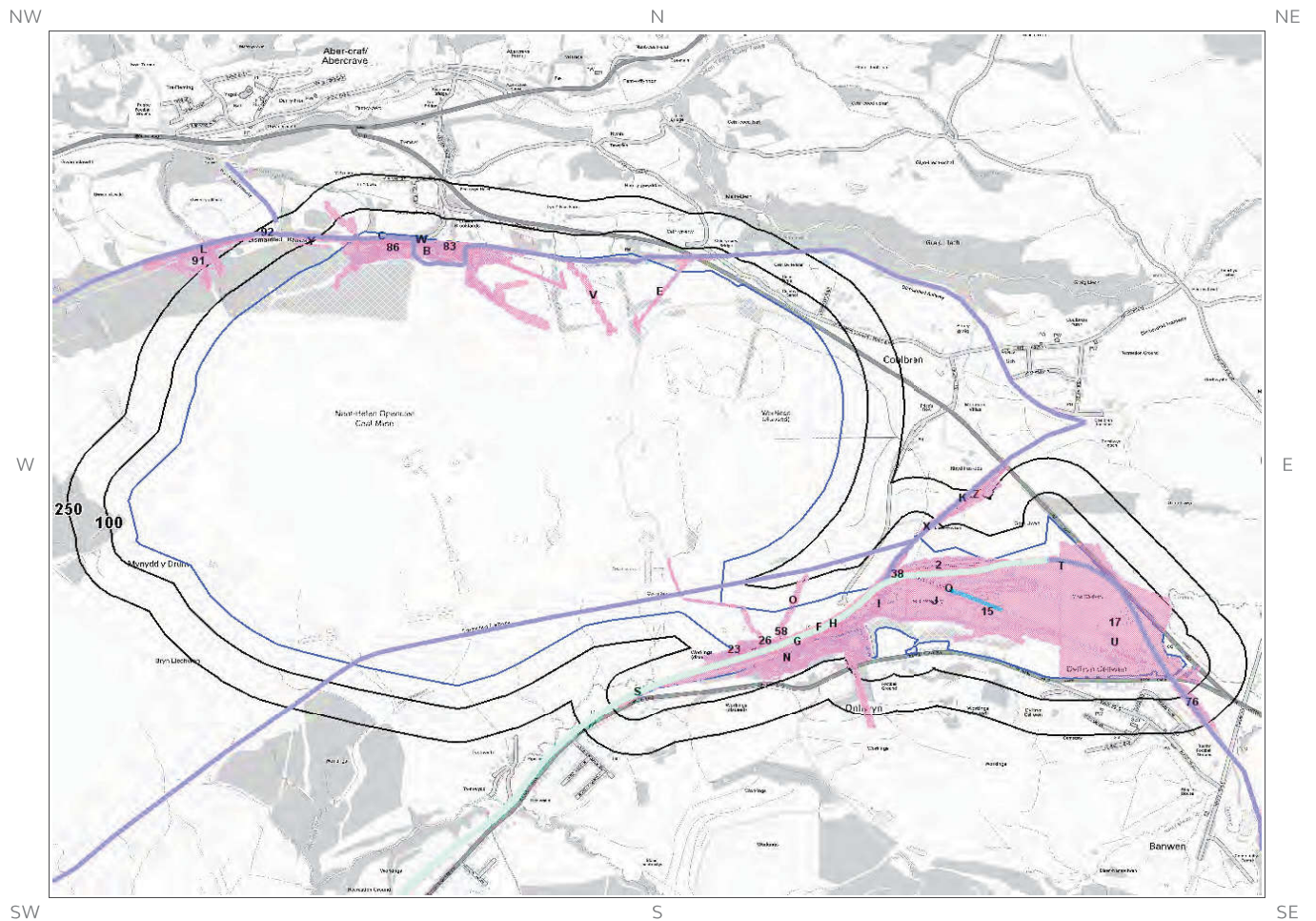
Distance (m)	Direction	Sample Type	Arsenic (As)	Cadmium (Cd)	Chromium (Cr)	Nickel (Ni)	Lead (Pb)
0.0	On Site	Sediment	25 - 35 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg	<100 mg/kg
0.0	On Site	Sediment	15 - 25 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg	<100 mg/kg
0.0	On Site	Sediment	25 - 35 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	<100 mg/kg
0.0	On Site	Sediment	35 - 45 mg/kg	1.8 - 2.2 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	<100 mg/kg
0.0	On Site	Sediment	25 - 35 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	<100 mg/kg
0.0	On Site	Sediment	15 - 25 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	<100 mg/kg
0.0	On Site	Sediment	15 - 25 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	<100 mg/kg
0.0	On Site	Sediment	45 - 60 mg/kg	1.8 - 2.2 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	<100 mg/kg
0.0	On Site	Sediment	25 - 35 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg	<100 mg/kg
0.0	On Site	Sediment	45 - 60 mg/kg	3.0 - 6.0 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	<100 mg/kg
0.0	On Site	Sediment	35 - 45 mg/kg	3.0 - 6.0 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	<100 mg/kg
0.0	On Site	Sediment	15 - 25 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	<100 mg/kg
0.0	On Site	Sediment	25 - 35 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	<100 mg/kg
0.0	On Site	Sediment	25 - 35 mg/kg	3.0 - 6.0 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg	<100 mg/kg
0.0	On Site	Sediment	25 - 35 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg	<100 mg/kg
0.0	On Site	Sediment	15 - 25 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	<100 mg/kg
0.0	On Site	Sediment	15 - 25 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	<100 mg/kg
0.0	On Site	Sediment	15 - 25 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	<100 mg/kg
0.0	On Site	Sediment	25 - 35 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg	<100 mg/kg
0.0	On Site	Sediment	25 - 35 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	<100 mg/kg
0.0	On Site	Sediment	25 - 35 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg	<100 mg/kg
0.0	On Site	Sediment	25 - 35 mg/kg	1.8 - 2.2 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg	<100 mg/kg
0.0	On Site	Sediment	15 - 25 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	<100 mg/kg
0.0	On Site	Sediment	15 - 25 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	<100 mg/kg
0.0	On Site	Sediment	25 - 35 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg	<100 mg/kg
0.0	On Site	Sediment	15 - 25 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	<100 mg/kg
0.0	On Site	Sediment	25 - 35 mg/kg	1.8 - 2.2 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg	<100 mg/kg
0.0	On Site	Sediment	15 - 25 mg/kg	2.2 - 3.0 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg	<100 mg/kg
0.0	On Site	Sediment	15 - 25 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	<100 mg/kg
0.0	On Site	Sediment	15 - 25 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	<100 mg/kg
0.0	On Site	Sediment	15 - 25 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg	<100 mg/kg
0.0	On Site	Sediment	15 - 25 mg/kg	3.0 - 6.0 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg	<100 mg/kg
0.0	On Site	Sediment	25 - 35 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	<100 mg/kg
0.0	On Site	Sediment	15 - 25 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg	<100 mg/kg
0.0	On Site	Sediment	25 - 35 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	<100 mg/kg
0.0	On Site	Sediment	15 - 25 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg	<100 mg/kg
0.0	On Site	Sediment	25 - 35 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	<100 mg/kg
0.0	On Site	Sediment	15 - 25 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg	<100 mg/kg
0.0	On Site	Sediment	15 - 25 mg/kg	3.0 - 6.0 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg	<100 mg/kg
0.0	On Site	Sediment	15 - 25 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	<100 mg/kg
0.0	On Site	Sediment	15 - 25 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	<100 mg/kg
0.0	On Site	Sediment	25 - 35 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg	<100 mg/kg
0.0	On Site	Sediment	15 - 25 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	<100 mg/kg

[illegible]

Distance (m)	Direction	Sample Type	Arsenic (As)	Cadmium (Cd)	Chromium (Cr)	Nickel (Ni)	Lead (Pb)
0.0	On Site	Sediment	25 - 35 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	<100 mg/kg
0.0	On Site	Sediment	15 - 25 mg/kg	3.0 - 6.0 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg	<100 mg/kg
0.0	On Site	Sediment	15 - 25 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	<100 mg/kg
0.0	On Site	Sediment	15 - 25 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	<100 mg/kg
0.0	On Site	Sediment	15 - 25 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	<100 mg/kg
0.0	On Site	Sediment	15 - 25 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	<100 mg/kg
0.0	On Site	Sediment	25 - 35 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg	<100 mg/kg
0.0	On Site	Sediment	45 - 60 mg/kg	3.0 - 6.0 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	<100 mg/kg
0.0	On Site	Sediment	15 - 25 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	<100 mg/kg
0.0	On Site	Sediment	15 - 25 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	<100 mg/kg
0.0	On Site	Sediment	15 - 25 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg	<100 mg/kg
0.0	On Site	Sediment	35 - 45 mg/kg	3.0 - 6.0 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	<100 mg/kg
0.0	On Site	Sediment	15 - 25 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg	<100 mg/kg
0.0	On Site	Sediment	15 - 25 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg	<100 mg/kg
0.0	On Site	Sediment	15 - 25 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	<100 mg/kg
0.0	On Site	Sediment	15 - 25 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	<100 mg/kg
0.0	On Site	Sediment	15 - 25 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg	<100 mg/kg
0.0	On Site	Sediment	15 - 25 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg	<100 mg/kg
0.0	On Site	Sediment	25 - 35 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	<100 mg/kg
0.0	On Site	Sediment	15 - 25 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg	<100 mg/kg
0.0	On Site	Sediment	15 - 25 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg	<100 mg/kg
0.0	On Site	Sediment	15 - 25 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg	<100 mg/kg
0.0	On Site	Sediment	15 - 25 mg/kg	2.2 - 3.0 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg	<100 mg/kg
0.0	On Site	Sediment	25 - 35 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	<100 mg/kg
0.0	On Site	Sediment	15 - 25 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	<100 mg/kg
0.0	On Site	Sediment	15 - 25 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg	<100 mg/kg
0.0	On Site	Sediment	15 - 25 mg/kg	3.0 - 6.0 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg	<100 mg/kg
0.0	On Site	Sediment	15 - 25 mg/kg	1.8 - 2.2 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg	<100 mg/kg
0.0	On Site	Sediment	25 - 35 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	<100 mg/kg
0.0	On Site	Sediment	15 - 25 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	<100 mg/kg
0.0	On Site	Sediment	15 - 25 mg/kg	3.0 - 6.0 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg	<100 mg/kg
0.0	On Site	Sediment	25 - 35 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg	<100 mg/kg
0.0	On Site	Sediment	45 - 60 mg/kg	3.0 - 6.0 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	<100 mg/kg
0.0	On Site	Sediment	15 - 25 mg/kg	3.0 - 6.0 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg	<100 mg/kg
0.0	On Site	Sediment	15 - 25 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	<100 mg/kg
0.0	On Site	Sediment	15 - 25 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	<100 mg/kg
1.0	SE	Sediment	35 - 45 mg/kg	3.0 - 6.0 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	<100 mg/kg
4.0	NE	Sediment	35 - 45 mg/kg	3.0 - 6.0 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	<100 mg/kg
7.0	NE	Sediment	35 - 45 mg/kg	3.0 - 6.0 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	<100 mg/kg
8.0	SE	Sediment	15 - 25 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	<100 mg/kg
10.0	N	Sediment	35 - 45 mg/kg	1.8 - 2.2 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	<100 mg/kg
10.0	NW	Sediment	15 - 25 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	<100 mg/kg
11.0	SE	Sediment	15 - 25 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	<100 mg/kg
13.0	N	Sediment	35 - 45 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	<100 mg/kg
13.0	NE	Sediment	45 - 60 mg/kg	3.0 - 6.0 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	<100 mg/kg
14.0	N	Sediment	35 - 45 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	<100 mg/kg
16.0	N	Sediment	25 - 35 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	<100 mg/kg
16.0	N	Sediment	25 - 35 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	<100 mg/kg
20.0	N	Sediment	35 - 45 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	<100 mg/kg
47.0	SW	Sediment	15 - 25 mg/kg	<1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg	<100 mg/kg

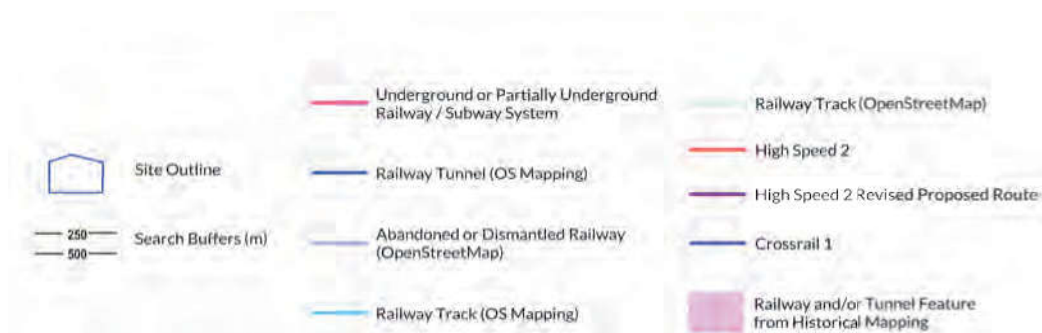
*As this data is based upon underlying 1:50,000 scale geological information, a 50m buffer has been added to the search radius.

9 Railways and Tunnels map



Railways and Tunnels Legend

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© OpenStreetMapContributors



9 Railways and Tunnels

9.1 Tunnels

This data is derived from OpenStreetMap and provides information on the possible locations of underground railway systems in the UK - the London Underground, the Tyne & Wear Metro and the Glasgow Subway.

Have any underground railway lines been identified within the study site boundary? No

Have any underground railway lines been identified within 250m of the study site boundary? No

Database searched and no data found.

Any records that have been identified are represented on the Railways and Tunnels map.

This data is derived from Ordnance Survey mapping and provides information on the possible locations of railway tunnels forming part of the UK overground railway network.

Have any other railway tunnels been identified within the site boundary? No

Have any other railway tunnels been identified within 250m of the site boundary? No

Database searched and no data found.

Any records that have been identified are represented on the Railways and Tunnels map.

9.2 Historical Railway and Tunnel Features

This data is derived from Groundsure's unique Historical Land-use Database and contains features relating to tunnels, railway tracks or associated works that have been identified from historical Ordnance Survey mapping.

Have any historical railway or tunnel features been identified within the study site boundary? Yes

Have any historical railway or tunnel features been identified within 250m of the study site boundary? Yes

ID	Distance (m)	Direction	NGR	Details	Date
1K	0	On Site	284576 210960	Railway Sidings	1921
2	0	On Site	284430 210683	Railway Sidings	1921
3A	0	On Site	282203 212067	Railway Sidings	1921
4B	0	On Site	282086 211994	Railway Sidings	1921
5A	0	On Site	282130 212064	Railway Sidings	1914
6B	0	On Site	282570 211973	Railway Sidings	1948

ID	Distance (m)	Direction	NGR	Details	Date
7B	0	On Site	282096 212030	Railway Sidings	1903
8C	0	On Site	282184 212125	Railway Sidings	1921
9C	0	On Site	282193 212121	Railway Sidings	1914
10W	0	On Site	282374 212107	Railway Sidings	1877
11D	0	On Site	282592 211920	Railway Sidings	1965
12D	0	On Site	282562 211966	Tramway Sidings	1921
13	0	On Site	282564 211961	Tramway Sidings	1914
14V	0	On Site	283067 211864	Tramway Sidings	1903
15	0	On Site	284385 210466	Railway Sidings	1948
16U	0	On Site	285233 210356	Railway Sidings	1977
17	0	On Site	285289 210506	Railway Sidings	1962
18E	0	On Site	283353 211886	Tramway Sidings	1921
19E	0	On Site	283349 211880	Tramway Sidings	1914
20	0	On Site	283357 211892	Tramway Sidings	1921
21R	0	On Site	283553 210544	Tramway Sidings	1903
22P	0	On Site	283571 210272	Railway Sidings	1921
23	0	On Site	283646 210326	Railway Sidings	1921
24F	0	On Site	284042 210395	Railway Sidings	1948
25O	0	On Site	283894 210537	Tramway Sidings	1903
26	0	On Site	283783 210366	Railway Sidings	1921
27F	0	On Site	284179 210511	Railway Sidings	1914
28F	0	On Site	284179 210511	Railway Sidings	1914
29G	0	On Site	283803 210354	Railway Sidings	1921
30F	0	On Site	284145 210479	Railway Sidings	1921
31G	0	On Site	283858 210398	Railway Sidings	1921
32H	0	On Site	284138 210479	Railway Sidings	1903
33F	0	On Site	284075 210469	Railway Sidings	1901
34N	0	On Site	283897 210309	Railway Sidings	1876
35H	0	On Site	284121 210503	Railway Sidings	1877

ID	Distance (m)	Direction	NGR	Details	Date
36M	0	On Site	283877 210338	Railway Sidings	1921
37H	0	On Site	284133 210491	Railway Sidings	1921
38	0	On Site	284325 210649	Railway Sidings	1901
39J	0	On Site	284163 210461	Mineral Railway Sidings	1987
40I	0	On Site	284249 210525	Railway Sidings	1921
41I	0	On Site	284261 210529	Railway Sidings	1921
42J	0	On Site	283953 210369	Railway Sidings	1965
52M	0	On Site	284071 210381	Tramway Sidings	1904
53N	0	On Site	283871 210292	Railway Sidings	1877
54F	0	On Site	283982 210408	Railway Sidings	1961
55F	0	On Site	283979 210408	Mineral Railway Sidings	1984
56N	0	On Site	283835 210307	Railway Sidings	1961
57H	0	On Site	284116 210510	Railway Sidings	1904
58	0	On Site	283847 210405	Railway Sidings	1918
59F	0	On Site	284168 210505	Railway Sidings	1918
60I	0	On Site	284202 210566	Mineral Railway Sidings	1962
61O	0	On Site	283894 210532	Tramway Sidings	1904
62P	0	On Site	283584 210268	Railway Sidings	1996
63Q	0	On Site	284538 210568	Mineral Railway Sidings	1997
64J	0	On Site	284569 210569	Mineral Railway Sidings	1986
65Q	0	On Site	284116 210365	Mineral Railway Sidings	1962
66R	0	On Site	283555 210542	Tramway Sidings	1904
67S	0	On Site	283249 210143	Mineral Railway Sidings	1986
68S	0	On Site	283249 210143	Mineral Railway Sidings	1984
69S	0	On Site	283266 210151	Railway Sidings	1961
70T	0	On Site	285005 210686	Railway Sidings	1989
71T	0	On Site	285005 210688	Railway Sidings	1978
72T	0	On Site	285005 210688	Railway Sidings	1989
73U	0	On Site	285225 210347	Mineral Railway Sidings	1978

ID	Distance (m)	Direction	NGR	Details	Date
74U	0	On Site	285227 210348	Mineral Railway Sidings	1989
75U	0	On Site	285227 210348	Mineral Railway Sidings	1919
76	0	On Site	285533 210113	Mineral Railway Sidings	1905
77E	0	On Site	283350 211885	Tramway Sidings	1962
78V	0	On Site	283079 211867	Old Tramway Sidings	1919
79	0	On Site	282650 211869	Railway Sidings	1905
80	0	On Site	282819 211972	Tramway Sidings	1919
81W	0	On Site	282098 212026	Railway Sidings	1962
82W	0	On Site	282568 211989	Railway Sidings	1905
83	0	On Site	282540 212066	Mineral Railway Sidings	1877
84B	0	On Site	282421 212064	Railway Sidings	1962
85B	0	On Site	282380 212062	Colliery Railway Sidings	1921
86	0	On Site	282252 212073	Railway Sidings	1962
43X	6	NE	284449 210859	Railway Sidings	1919
87X	14	NE	284442 210857	Mineral Railway Sidings	1948
88K	14	NE	284605 211000	Railway Sidings	1921
44K	17	NE	284597 210989	Railway Sidings	1919
45K	17	NE	284599 210986	Railway Sidings	1904
89Y	38	NW	281912 212099	Railway Sidings	1965
90Y	63	NW	281908 212127	Railway Sidings	1919
46Z	140	N	284654 210998	Railway Sidings	1921
91	155	NW	281236 211992	Railway Sidings	1914
47L	166	NW	281272 212028	Railway Sidings	1921
48L	169	NW	281278 212023	Railway Sidings	1962
49L	173	NW	281280 212029	Railway Sidings	1903
92	199	NW	281730 212138	Mineral Railway Sidings	1904
50L	200	NW	281390 212037	Railway Sidings	1962
93L	206	NW	281415 212051	Railway Sidings	1948
94Z	234	N	284703 211028	Railway Sidings	

ID	Distance (m)	Direction	NGR	Details	Date
51L	239	NW	281390 212074	Railway Sidings	

Any records that have been identified are represented on the Railways and Tunnels map.

9.3 Historical Railways

This data is derived from OpenStreetMap and provides information on the possible alignments of abandoned or dismantled railway lines in proximity to the study site.

Have any historical railway lines been identified within the study site boundary? Yes

Have any historical railway lines been identified within 250m of the study site boundary? Yes

Distance (m)	Direction	Status
0	On Site	Abandoned
0	On Site	Razed
0	On Site	Razed
0	On Site	Abandoned
0	On Site	Razed
0	On Site	Abandoned
0	On Site	Abandoned
0	On Site	Razed
0	On Site	Razed
0	On Site	Abandoned
0	On Site	Razed
0	On Site	Abandoned
65	N	Abandoned
65	N	Razed
237	NW	Abandoned
237	NW	Razed

Multiple sections of the same track may be listed in the detail above

Any records that have been identified are represented on the Railways and Tunnels map.

9.4 Active Railways

These datasets are derived from Ordnance Survey mapping and OpenStreetMap and provide information on the possible locations of active railway lines in proximity to the study site.

Have any active railway lines been identified within the study site boundary? Yes

Have any active railway lines been identified within 250m of the study site boundary? Yes

Distance (m)	Direction	Name	Type
0	On Site	Not given	rail
0	On Site	Not given	Multi Track
0	On Site	Not given	Multi Track
0	On Site	Not given	Multi Track
0	On Site	Not given	Multi Track

Distance (m)	Direction	Name	Type
0	On Site	Not given	Multi Track
0	On Site	Not given	Multi Track
0	On Site	Not given	Multi Track
0	On Site	Not given	Multi Track
0	On Site	Not given	Multi Track
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0	On Site	Not given	Multi Track
0	On Site	Not given	rail
80	SW	Not given	Multi Track
80	SW	Not given	Multi Track

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Groundsure Helpline
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Web: www.bgs.ac.uk



BGS Geological Hazards Reports and general geological enquiries

British Gypsum

British Gypsum Ltd
East Leake
Loughborough
Leicestershire
LE12 6HX



The Coal Authority

200 Lichfield Lane
Mansfield
Notts NG18 4RG
Tel: 0345 7626 848
DX 716176 Mansfield 5
www.coal.gov.uk



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Public Health England, Wellington House
133-155 Waterloo Road, London, SE1 8UG
<https://www.gov.uk/government/organisations/public-health-england>
Email: enquiries@phe.gov.uk
Main switchboard: 020 7654 8000



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Ordnance Survey

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Getmapping PLC

Virginia Villas, High Street, Hartley Witney,
Hampshire RG27 8NW
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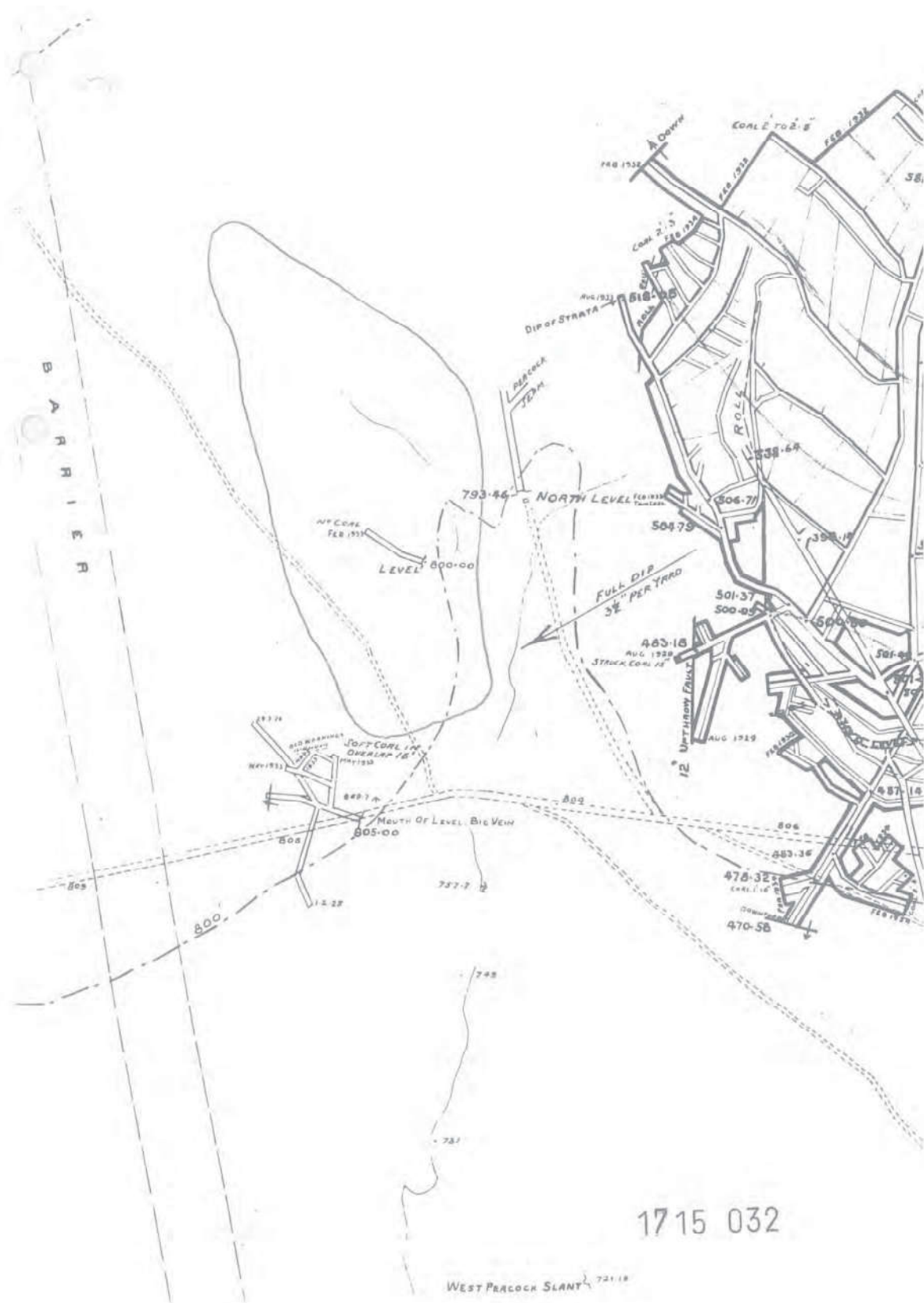
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Standard Terms and Conditions

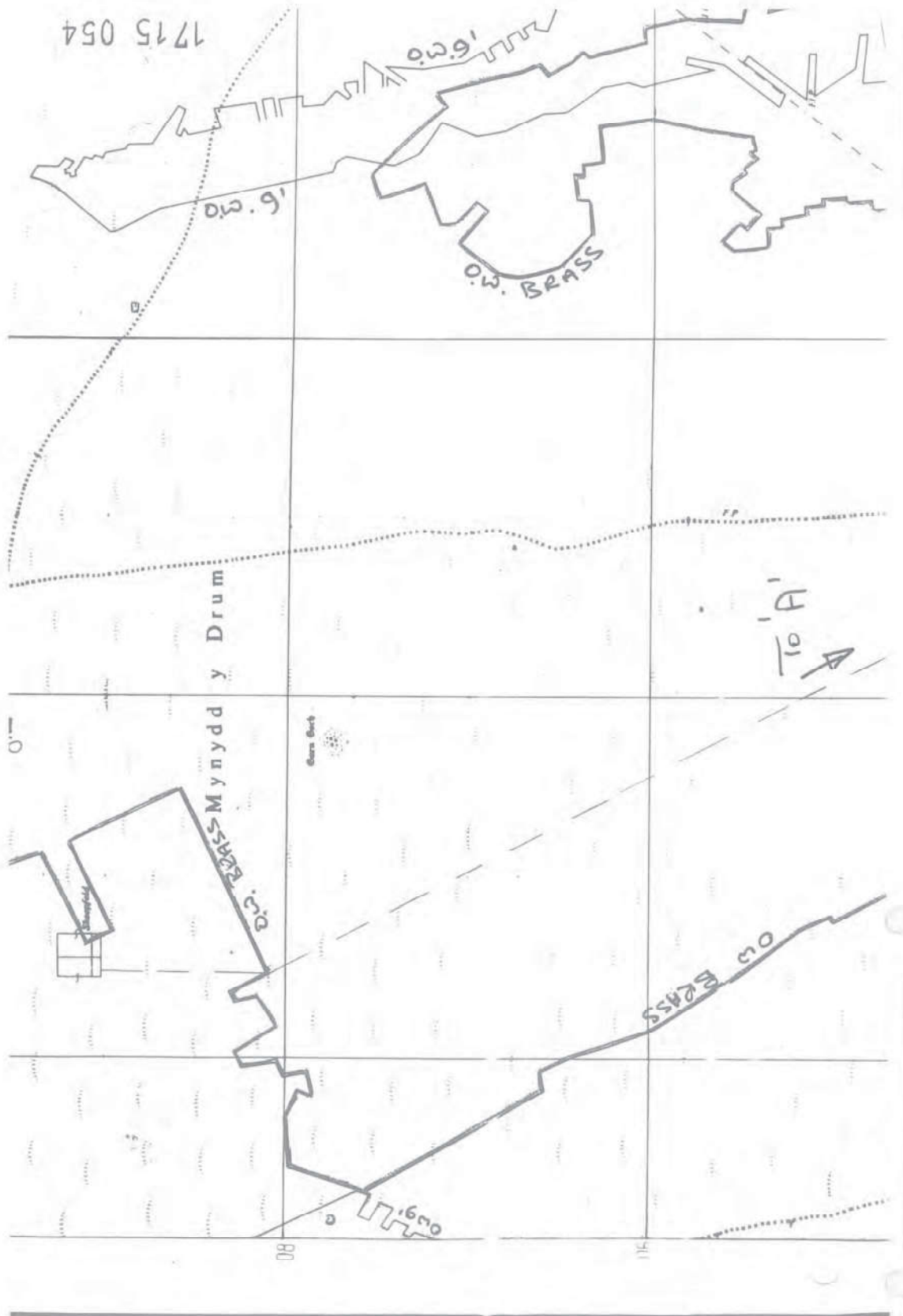
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<https://www.groundsure.com/terms-and-conditions-feb11-2019>

Appendix F

Nant Helen Underground
Workings - Celtic Energy







DULA!

1715 066





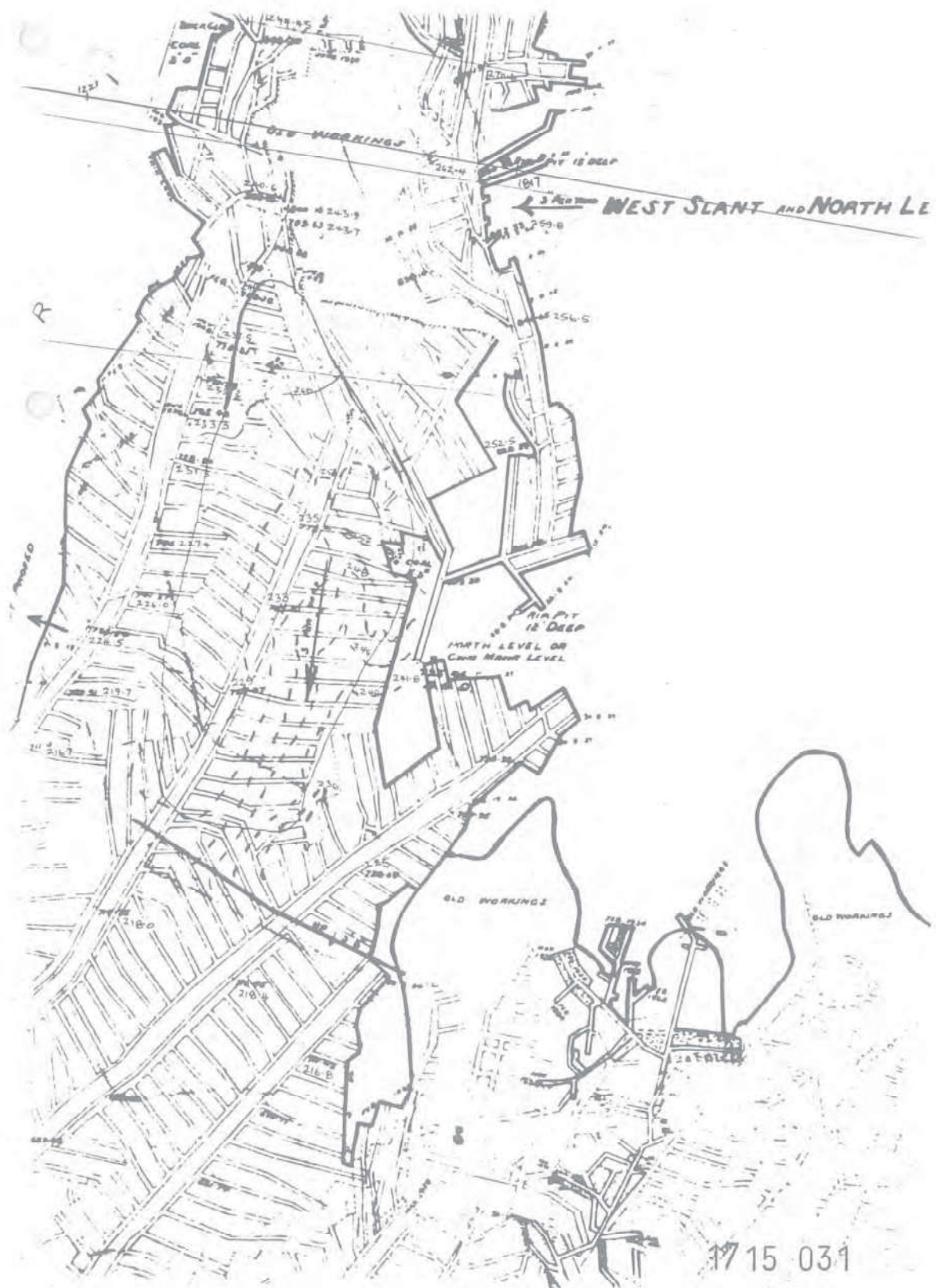
26 THIS PLAN IS A TRUE COPY OF THE WORKING PLAN OF THE MINE
AS COMPLETED UP TO 10TH FEBRUARY 1938, AND I CERTIFY AFTER
THOROUGH EXAMINATION AND INQUIRY THAT TO THE BEST OF
MY KNOWLEDGE AND BELIEF IT IS AN ACCURATE PLAN OF THE MINE 27
A. B. 10 C. 11/12/38 20 1502

19/5/34

~~SCALE 2 CHAINS TO ONE FT.~~

112500

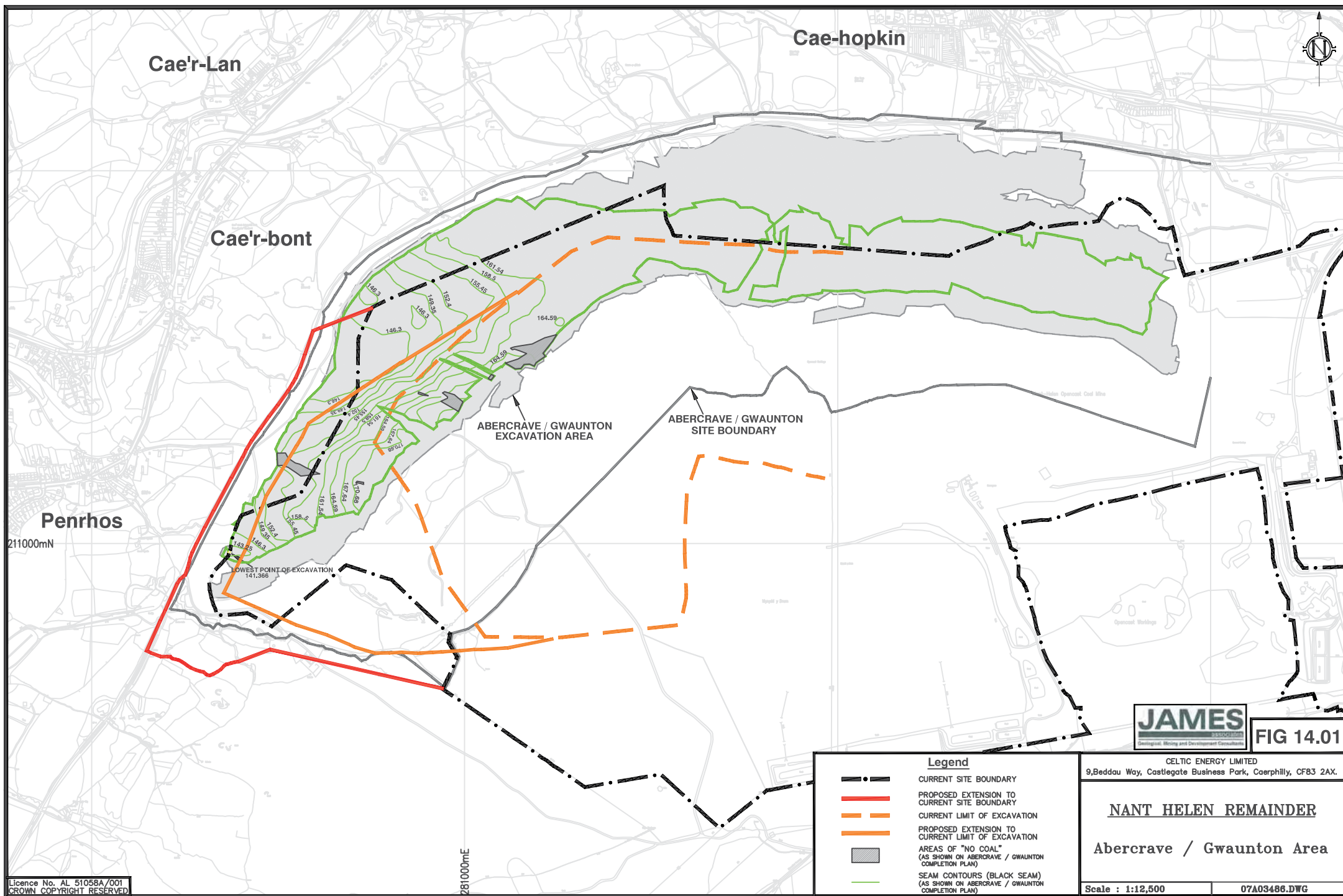




283000

Appendix G

Opencast Completion Plans - Celtic Energy





LEGEND

LOCATION

1:2500 SCALE ORDNANCE SHEET REFERENCE SN 8310: 8311: 8410: 8411
DATE OF ORDNANCE SHEET 1962: 1962: 1962: 1964
NAME OF SITE ONLLWYN
LOCATION OF SITE 2ml N.E. Seven Sisters, 1.5 ml S.E. Abercrove
COUNTY POWYS
DISTRICT BRECKNOCK
COMMUNITY YSTRADGYNLAIS HIGHER

QUANTITIES WORKED

TOTAL AREA ACQUIRED 258 ACRES SHEWN
TOTAL AREA WORKED EXCLUDING BATTERS 81.22 ACRES
TOTAL COAL RECOVERED FROM ABOVE 1,224,740 TONS

NAMES OF SEAMS WORKED FOR ABOVE TONNAGE

(SEAMS NAMES FROM LEFT TO RIGHT IN GEOLOGICAL DESCENDING ORDER)

AREA OF COAL SEAM WORKED COLOUR EDGE (SQUARE YARDS)
(SEAMS COLOURED FROM LEFT TO RIGHT IN GEOLOGICAL DESCENDING ORDER)

TOTAL OLD WORKING VOIDS IN COAL SEAM IN CUBIC YDS

AREA OF SEAM WHERE OLD WORKING VOIDS WERE LOCATED

DIP AND DIRECTION OF EACH SEAM SHEWN BY CONTOURS

REDUCED LEVELS TO ORDNANCE DATUM SHEWN

(RELATIVE TO NEWLYN)

FAULTS SHEWN WITH THROW IN FEET ON DOWNTROW SIDE

EXCAVATION ONLY

UPPER PEACOCK	PEACOCK 2	LOWER PEACOCK	BLUES	RHYD	GREY	NEW
82,122	11,638	32,228	395,302	227,249	225,080	187,380
NIL	NIL	NIL	NIL	NIL	NIL	NIL
GL 813.5	GL 803.3	GL 856.1	GL 802.7	GL 801.7	GL 802.8	GL 804.8
BC 797.3	BC 756.7	BC 780.7	BC 656.4	BC 630.4	BC 605.8	BC 552.8

GENERAL DESCRIPTION

TYPE OF LAND Grazing

NATURE OF OVERBURDEN Boulder Clay & Mudstones with some Shales & Sandstones

NATURE OF COAL Anthracite

SPECIAL REMARKS

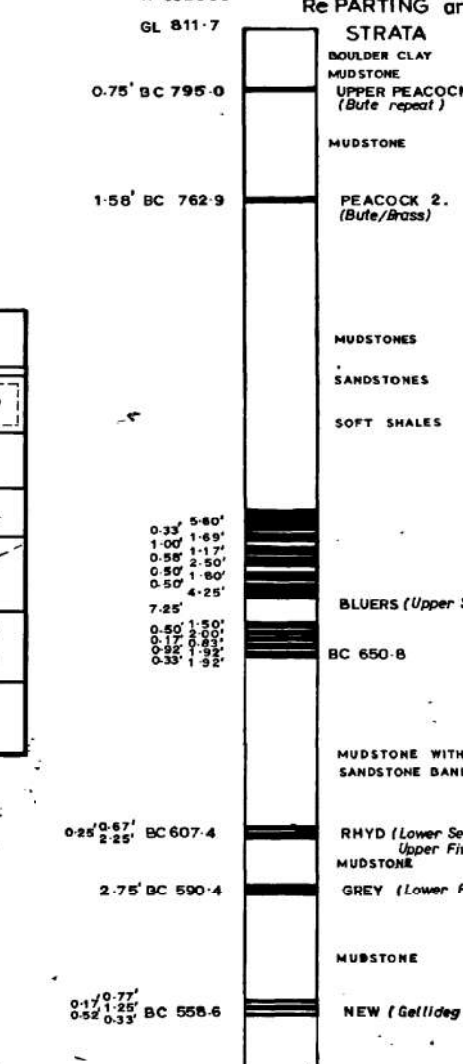
OPERATIONAL DATES

ACQUIRED August 1972
COMMENCEMENT OF COALING October 1973
COMPLETION OF COALING May 1982
COMPLETION OF RESOLING
HANDLED OVER TO MINISTRY OF AGRICULTURE F&F
FINALLY RELINQUISHED

COPY SENT TO	DATE	INITIAL
Winning Records (2)		
F&F (1)		
Geological Survey (1)		

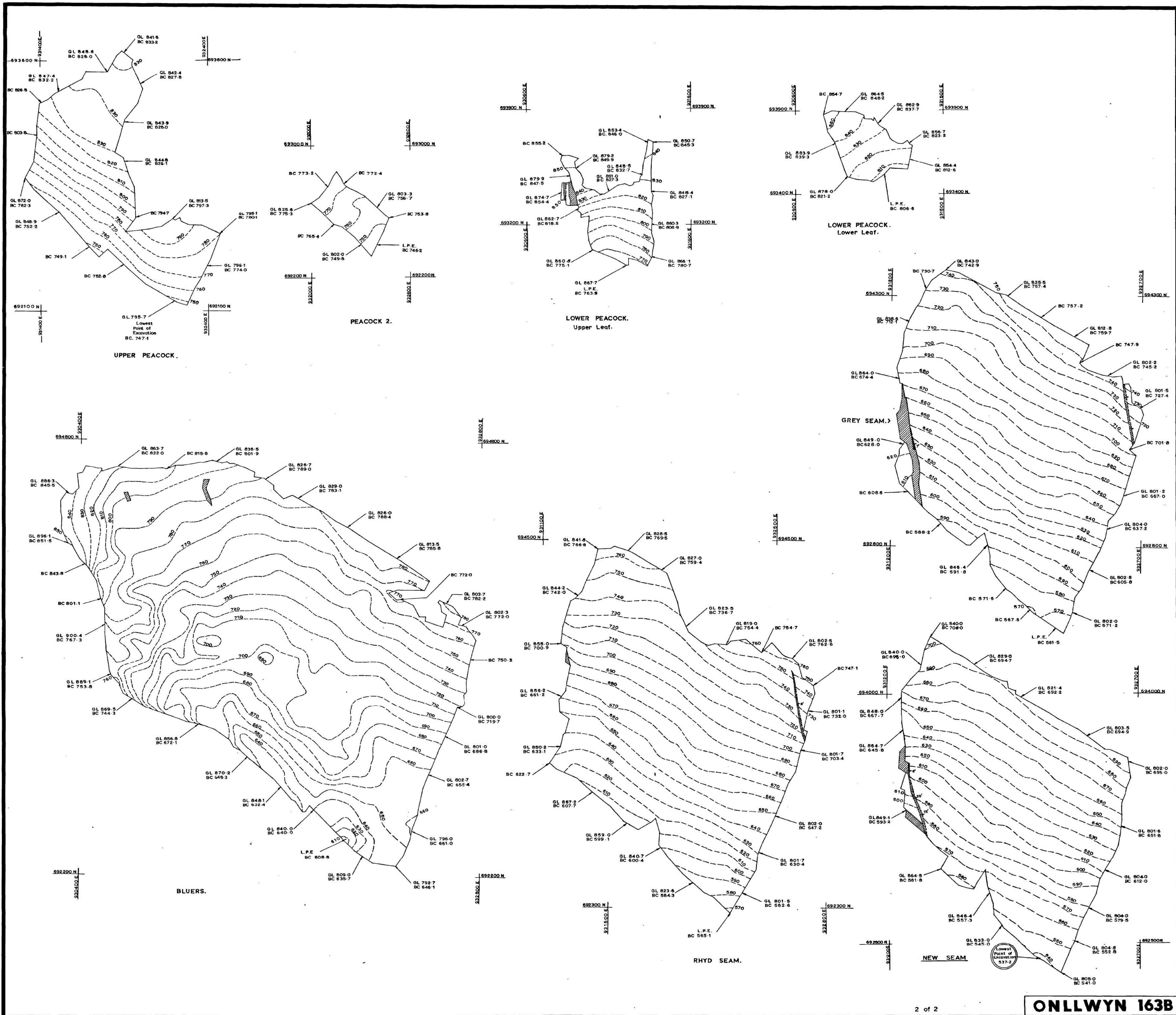
VERTICAL SECTION (S)

NATIONAL COAL BOARD, South Wales Area, Standard
OPEN MEASUREMENT, shown in brackets
VERTICAL SCALE 30 TO 1 INCH



NATIONAL COAL BOARD OPENCAST EXECUTIVE 200 LICHFIELD LANE, BERRY HILL MANSFIELD, NOTTS.	LAND SURVEY BRANCH DRAWN BY: C. Morgan DATE: September 1983 CHECKED BY: B. Evans DATE: December 1983 SCALE: 1:2500	NAME OF ZONE OR CONTRACT	NAME OF SITE. ONLLWYN	SITE REFERENCE NUMBER 070402 OPERATIONAL CONTRACT NUMBER 5066	DRAWING NUMBER OE/COMP/O /
--	---	-----------------------------	------------------------------	--	-------------------------------

163A



NATIONAL COAL BOARD
ORPINGTON EXECUTIVE
64A WHITCOMB STREET
LONDON, WC2

LAND SURVEY BRANCH
DRAWN BY: J. J. J.
CHECKED BY: J. J. J.
SCALE: 1:2500

NAME OF ZONE
OR CONTRACT

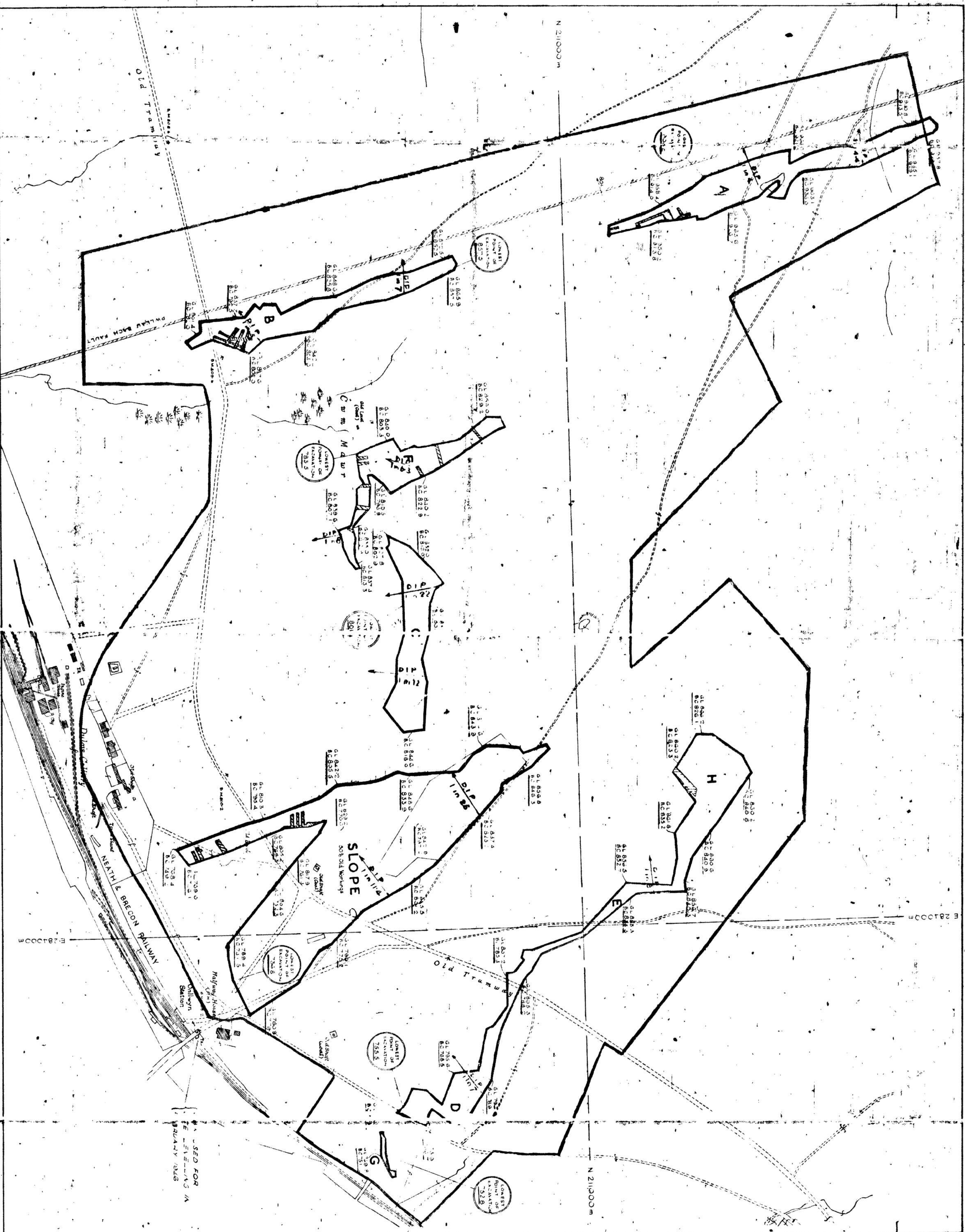
ONLLWYN

NAME OF SITE

ONLLWYN

ALL LEVELS ARE REFERRED TO THE LIVERPOOL DATUM

CROWN COPYRIGHT RESERVED



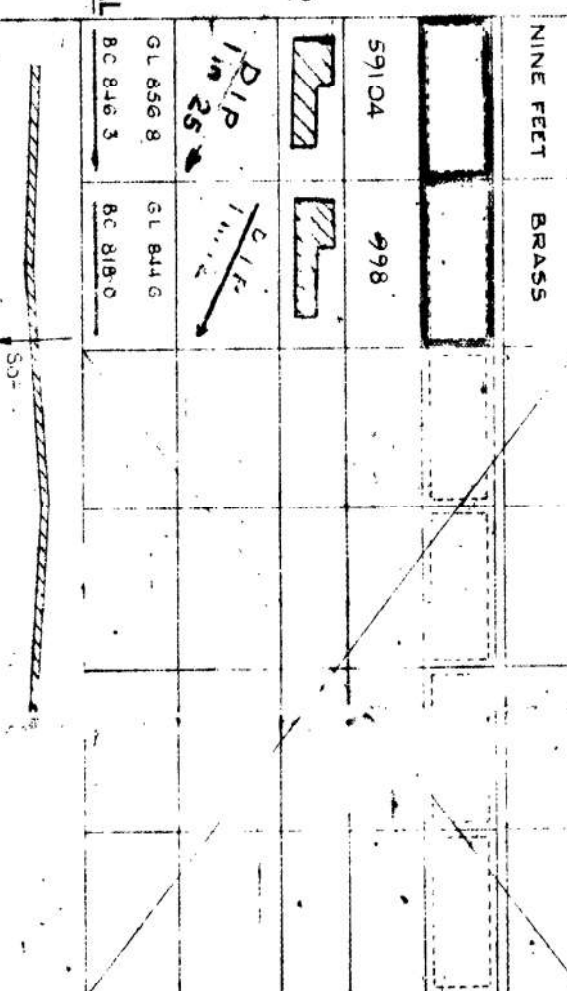
LEGEND

1:2500 SCALE (ADAPTED SHEET, REFERENCE: ORPINGTON SHEET, 1:2500 SCALE)
DATE OF SURVEY: 1947
DATE OF ORIGIN: 1947
NAME OF SITE: ONLLWYN
LOCATION OF SITE: 12 MILE N.W. ONLLWYN
COUNTY: BRECKNOSSHIRE
PARISH: VYRABOYNALAS HIGHER

QUANTITIES WORKED

TOTAL AREA ACQUIRED: 231.5 ACRES, SHEWY
TOTAL AREA WORKED EXCLUDING BATTERS: 28.85 ACRES
TOTAL COAL RECOVERED FROM ABOVE: 158,828 TONS

NAMES OF SEAMS WORKED FOR ABOVE TONNAGE
(SEAMS WORKED FROM LEFT TO RIGHT IN GEOLOGICAL ORDER)
AREA OF COAL SEAM WORKED: COLOQU, EGGED
(SEAM COLOQUED FROM LEFT TO RIGHT IN GEOLOGICAL ORDER)
TOTAL OLD WORKING VOIDS IN COAL SEAM IN CUBIC YDS.
AREA OF SEAM WHERE OLD WORKING VOIDS WERE LOCATED
DIP AND DIRECTION OF EACH SEAM: SHEWY
REDUCED LEVELS TO ORDNANCE DATUM SHEWY (GROUND LEVEL)
FAULTS: SHEWY WITH THROW IN FEET ON DOWNTHROW SIDE



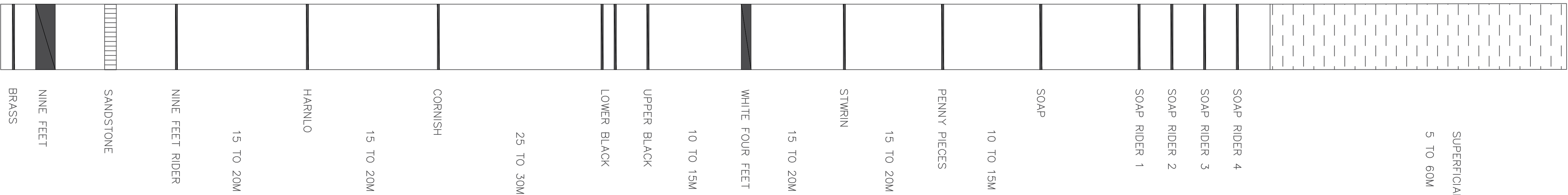
GENERAL DESCRIPTION

TYPE OF LAND: ROUGH HILL GRASSING
NATURE OF OVERLIE: CLAY, SHALE WITH THIN BANDS OF IRONSTONE
NATURE OF COAL: ANTHRACITE
SPECIAL REMARKS: SOME AREA AFFECTED BY OLD WORKINGS

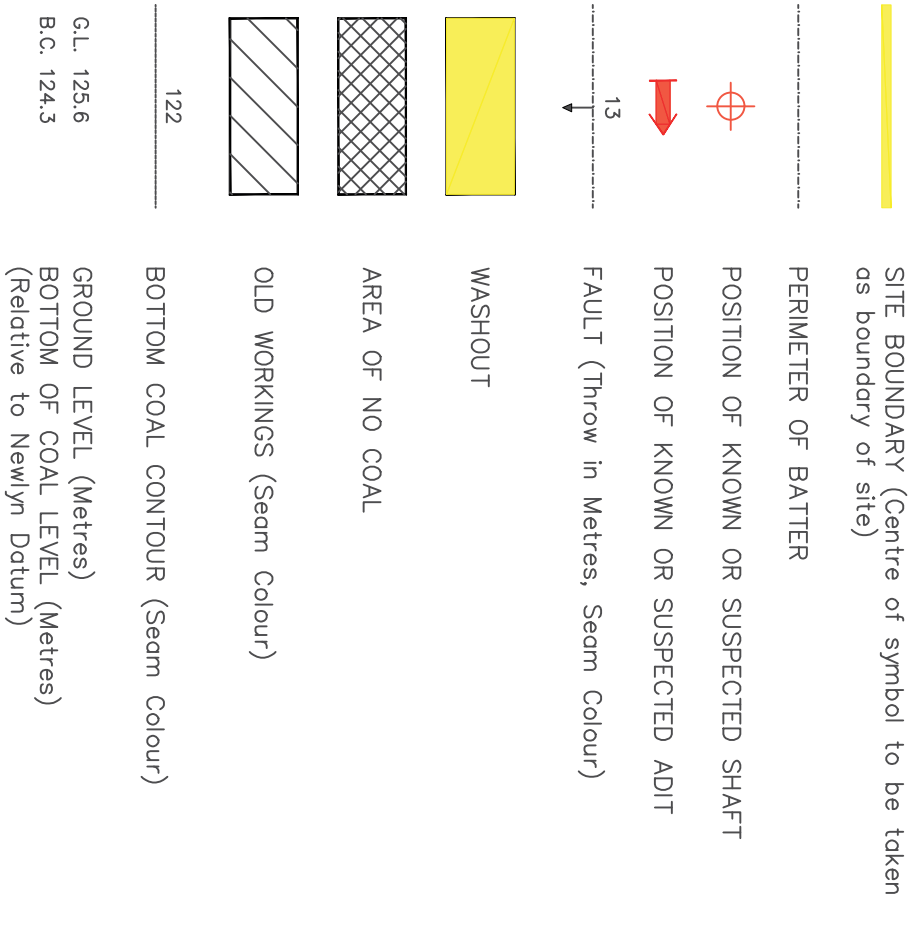
OPERATIONAL DATA

DATE ACQUIRED: 1840-1842, 1842-1843, 1843-1844, 1844-1845, 1845-1846, 1846-1847, 1847-1848, 1848-1849, 1849-1850, 1850-1851, 1851-1852, 1852-1853, 1853-1854, 1854-1855, 1855-1856, 1856-1857, 1857-1858, 1858-1859, 1859-1860, 1860-1861, 1861-1862, 1862-1863, 1863-1864, 1864-1865, 1865-1866, 1866-1867, 1867-1868, 1868-1869, 1869-1870, 1870-1871, 1871-1872, 1872-1873, 1873-1874, 1874-1875, 1875-1876, 1876-1877, 1877-1878, 1878-1879, 1879-1880, 1880-1881, 1881-1882, 1882-1883, 1883-1884, 1884-1885, 1885-1886, 1886-1887, 1887-1888, 1888-1889, 1889-1890, 1890-1891, 1891-1892, 1892-1893, 1893-1894, 1894-1895, 1895-1896, 1896-1897, 1897-1898, 1898-1899, 1899-1900, 1900-1901, 1901-1902, 1902-1903, 1903-1904, 1904-1905, 1905-1906, 1906-1907, 1907-1908, 1908-1909, 1909-1910, 1910-1911, 1911-1912, 1912-1913, 1913-1914, 1914-1915, 1915-1916, 1916-1917, 1917-1918, 1918-1919, 1919-1920, 1920-1921, 1921-1922, 1922-1923, 1923-1924, 1924-1925, 1925-1926, 1926-1927, 1927-1928, 1928-1929, 1929-1930, 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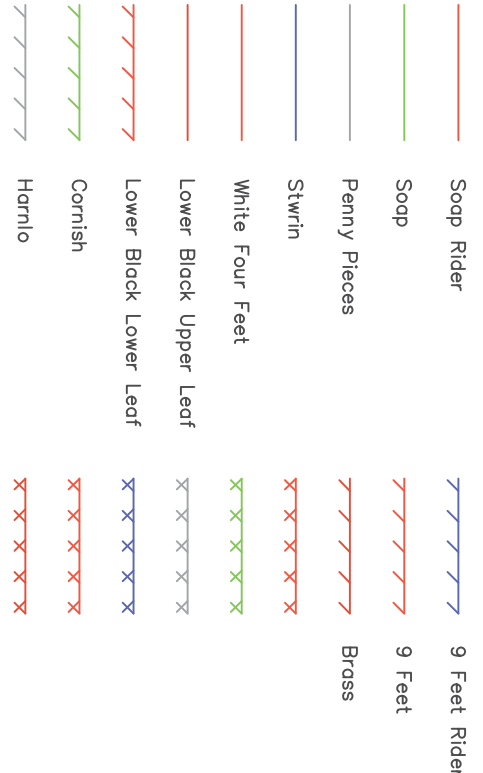
Vertical Sections



Legend



AREA OF SEAM WORKED (with seam code) IN GEOLOGICAL DESCENDING ORDER



NOTES

Scale (1:1) Refer to South Register	N	L
Site Bench Mark	284236	242.50

LAND TYPE AND USAGE

BEFORE OPERATIONS	Rough Pasture
AFTER RESTORATION	Rough Pasture
DETAILS OF OVERBURDEN	Good Duffieldstone Siltstone, Sandstone
DETAILS OF BACKFILL	
NATURE OF COAL	Anthracite
OPERATIONAL DATES	
AUTHORISED	September 1986
COALING COMMENCED	June 1987
COALING COMPLETED	March 1999
PLANS ISSUED	

NANT HELEN

CETIC ENERGY LIMITED
Heol Ty Aeron, Abercrom, Aberdare, Mid Glam CF44 6LX

SITE NAME

TITLE

COMPLETION PLAN

MINING ROWS	100000	COAL PARISH
LOCATION		