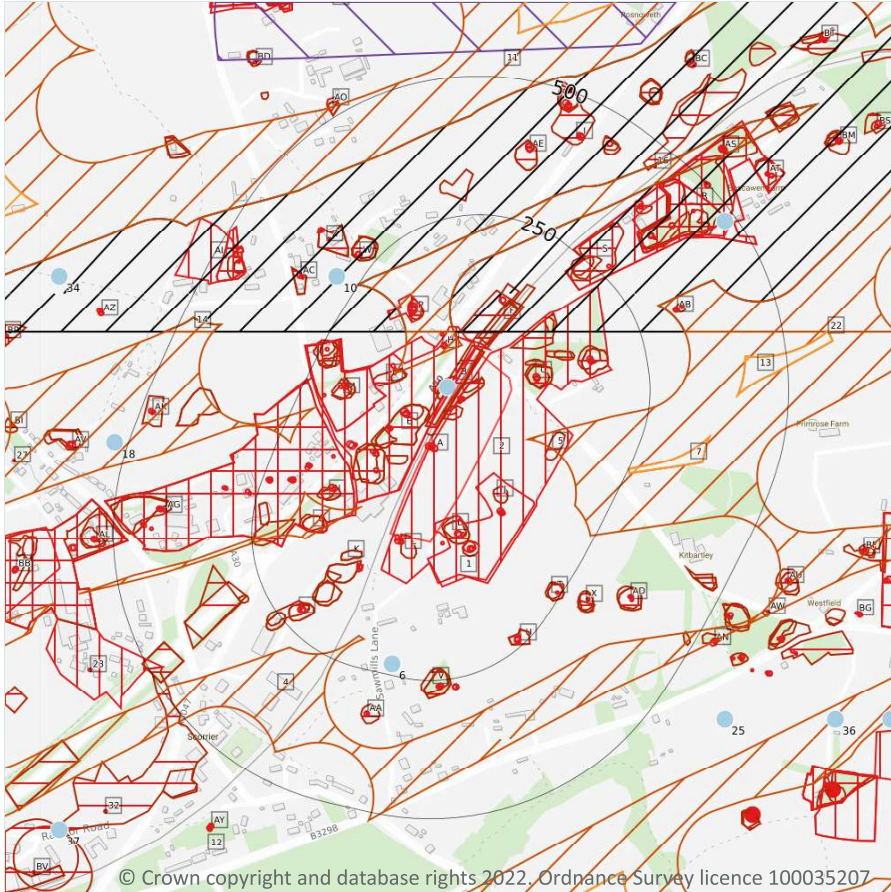


18 Mining, ground workings and natural cavities



- Site Outline
- Search buffers in metres (m)
- Natural cavities (Area)
- Natural cavities (Point)
- BritPits
- Surface ground workings
- Underground workings
- Historical Mineral Planning Areas
- Mining Cavities
- Non Coal Mining
- Sporadic underground mining of restricted extent possible
- Localised small scale underground mining possible
- Small scale mining possible
- Underground mining known or likely within or in close proximity
- Underground mining known within or in very close proximity

18.1 Natural cavities

Records within 500m

0

Industry recognised national database of natural cavities. Sinkholes and caves are formed by the dissolution of soluble rock, such as chalk and limestone, gulls and fissures by cambering. Ground instability can result from movement of loose material contained within these cavities, often triggered by water.

This data is sourced from Stantec UK Ltd.

18.2 BritPits

Records within 500m

0

BritPits (an abbreviation of British Pits) is a database maintained by the British Geological Survey of currently active and closed surface and underground mineral workings. Details of major mineral handling sites, such as wharfs and rail depots are also held in the database.

This data is sourced from the British Geological Survey.

18.3 Surface ground workings

Records within 250m

84

Historical land uses identified from Ordnance Survey mapping that involved ground excavation at the surface. These features may or may not have been subsequently backfilled.

Features are displayed on the Mining, ground workings and natural cavities map on **page 118**

ID	Location	Land Use	Year of mapping	Mapping scale
B	On site	Cuttings	1958	1:10560
B	On site	Refuse Heap	1908	1:10560
B	On site	Refuse Heap	1908	1:10560
B	On site	Cuttings	1908	1:10560
B	On site	Cuttings	1879	1:10560
B	On site	Refuse Heap	1958	1:10560
B	On site	Refuse Heap	1958	1:10560
B	On site	Unspecified Heap	1879	1:10560
C	On site	Unspecified Heap	1879	1:10560
D	3m SE	Refuse Heap	1958	1:10560
D	6m SE	Refuse Heap	1908	1:10560
D	6m SE	Unspecified Heap	1879	1:10560
B	13m NW	Refuse Heap	1908	1:10560
B	13m NW	Unspecified Heap	1879	1:10560
F	16m NE	Cuttings	1879	1:10560
E	21m NW	Refuse Heap	1908	1:10560
E	21m NW	Unspecified Heap	1879	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
F	22m NE	Cuttings	1908	1:10560
B	22m NW	Refuse Heap	1958	1:10560
E	23m NW	Unspecified Pit	1879	1:10560
G	29m E	Refuse Heap	1958	1:10560
G	32m E	Refuse Heap	1908	1:10560
G	32m E	Unspecified Heap	1879	1:10560
E	34m NW	Refuse Heap	1958	1:10560
F	37m N	Cuttings	1988	1:10000
G	38m NE	Unspecified Heap	1879	1:10560
F	39m N	Cuttings	1958	1:10560
G	44m NE	Refuse Heaps	1908	1:10560
E	46m NW	Refuse Heap	1908	1:10560
E	46m NW	Unspecified Heap	1879	1:10560
J	50m SE	Unspecified Heap	1879	1:10560
E	54m NW	Refuse Heap	1958	1:10560
E	55m NW	Refuse Heaps	1958	1:10560
D	55m SE	Refuse Heap	1908	1:10560
K	62m SW	Refuse Heap	1908	1:10560
K	62m SW	Unspecified Heap	1879	1:10560
K	74m SW	Refuse Heap	1908	1:10560
K	74m SW	Unspecified Heap	1879	1:10560
E	77m W	Disused Tin and Copper	1908	1:10560
G	78m NE	Unspecified Pit	1908	1:10560
G	91m NE	Unspecified Pit	1879	1:10560
L	91m NW	Unspecified Pit	1908	1:10560
L	91m NW	Unspecified Pit	1879	1:10560
F	97m NE	Unspecified Heap	1879	1:10560
5	101m SE	Unspecified Pit	1879	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
G	108m NE	Refuse Heap	1958	1:10560
N	109m W	Refuse Heap	1908	1:10560
N	109m W	Unspecified Heap	1879	1:10560
O	114m W	Refuse Heap	1908	1:10560
O	114m W	Unspecified Heap	1879	1:10560
K	118m SW	Refuse Heaps	1958	1:10560
O	120m W	Refuse Heap	1958	1:10560
N	121m W	Refuse Heap	1958	1:10560
P	122m NW	Refuse Heap	1879	1:10560
G	127m E	Refuse Heap	1958	1:10560
G	133m E	Refuse Heap	1908	1:10560
G	133m E	Unspecified Heap	1879	1:10560
K	137m SW	Refuse Heap	1908	1:10560
K	137m SW	Unspecified Heap	1879	1:10560
M	160m NW	Refuse Heap	1908	1:10560
M	160m NW	Unspecified Heap	1879	1:10560
M	167m NW	Refuse Heap	1958	1:10560
E	175m W	Unspecified Heap	1992	1:10000
Q	193m SW	Refuse Heap	1908	1:10560
Q	193m SW	Unspecified Heap	1879	1:10560
Q	198m SW	Refuse Heaps	1958	1:10560
S	209m NE	Unspecified Heap	1879	1:10560
M	210m NW	Unspecified Heap	1879	1:10560
M	213m NW	Refuse Heap	1908	1:10560
S	218m NE	Refuse Heap	1908	1:10560
S	218m NE	Refuse Heap	1958	1:10560
E	220m W	Pond	1879	1:10560
M	220m NW	Refuse Heap	1958	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
T	222m SE	Unspecified Heap	1958	1:10560
U	225m SE	Refuse Heap	1908	1:10560
U	225m SE	Refuse Heap	1879	1:10560
T	227m SE	Unspecified Heap	1908	1:10560
T	227m SE	Unspecified Heap	1879	1:10560
M	228m NW	Unspecified Heap	1879	1:10560
V	229m S	Refuse Heap	1958	1:10560
V	233m S	Refuse Heap	1908	1:10560
V	233m S	Unspecified Heap	1879	1:10560
Q	242m SW	Refuse Heap	1908	1:10560
Q	242m SW	Unspecified Heap	1879	1:10560

This data is sourced from Ordnance Survey/Groundsure.

18.4 Underground workings

Records within 1000m

565

Historical land uses identified from Ordnance Survey mapping that indicate the presence of underground workings e.g. mine shafts.

Features are displayed on the Mining, ground workings and natural cavities map on **page 118**

ID	Location	Land Use	Year of mapping	Mapping scale
2	On site	Disused Copper Mine	1879	1:10560
A	On site	Unspecified Shaft	1908	1:10560
A	On site	Unspecified Disused Shaft	1992	1:10000
A	On site	Unspecified Old Shafts	1958	1:10560
A	On site	Unspecified Disused Shaft	1980	1:10000
A	On site	Unspecified Disused Shaft	1974	1:10000
A	On site	Unspecified Shaft	1879	1:10560
B	On site	Unspecified Old Shaft	1908	1:10560
B	On site	Unspecified Disused Shaft	1992	1:10000



ID	Location	Land Use	Year of mapping	Mapping scale
B	On site	Unspecified Old Shaft	1958	1:10560
B	On site	Unspecified Disused Shaft	1980	1:10000
B	On site	Unspecified Disused Shaft	1974	1:10000
C	On site	Unspecified Shaft	1908	1:10560
D	On site	Unspecified Disused Mine	1958	1:10560
C	5m S	Unspecified Shaft	1958	1:10560
C	8m S	Unspecified Disused Shaft	1992	1:10000
C	8m S	Unspecified Disused Shaft	1980	1:10000
C	8m S	Unspecified Disused Shaft	1974	1:10000
E	8m NW	Disused Copper Mine	1879	1:10560
E	12m N	Disused Copper Mine	1908	1:10560
D	18m SE	Unspecified Shaft	1879	1:10560
D	28m SE	Unspecified Old Shafts	1958	1:10560
D	31m SE	Unspecified Old Shafts	1908	1:10560
D	39m SE	Unspecified Old Shafts	1879	1:10560
G	43m E	Unspecified Old Shafts	1958	1:10560
G	44m E	Unspecified Old Shafts	1908	1:10560
G	45m E	Unspecified Disused Shafts	1992	1:10000
G	45m E	Unspecified Disused Shafts	1980	1:10000
G	45m E	Unspecified Disused Shafts	1974	1:10000
E	53m NW	Unspecified Old Shafts	1908	1:10560
E	54m NW	Unspecified Disused Shafts	1980	1:10000
E	54m NW	Unspecified Disused Shafts	1974	1:10000
D	55m SE	Unspecified Old Shafts	1958	1:10560
H	55m NW	Unspecified Disused Shaft	1980	1:10000
H	55m NW	Unspecified Disused Shaft	1974	1:10000
E	57m NW	Unspecified Old Shafts	1958	1:10560
H	59m NW	Unspecified Old Shaft	1908	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
E	61m NW	Unspecified Disused Shafts	1980	1:10000
E	61m NW	Unspecified Disused Shafts	1974	1:10000
D	63m SE	Unspecified Old Shafts	1908	1:10560
D	66m SE	Unspecified Disused Shafts	1992	1:10000
D	66m SE	Unspecified Disused Shafts	1980	1:10000
D	66m SE	Unspecified Disused Shafts	1974	1:10000
E	70m NW	Unspecified Disused Shafts	1980	1:10000
E	70m NW	Unspecified Disused Shafts	1974	1:10000
D	71m SE	Unspecified Old Shafts	1879	1:10560
H	71m NW	Unspecified Old Shaft	1958	1:10560
J	73m SE	Unspecified Old Shafts	1958	1:10560
E	73m NW	Unspecified Old Shafts	1908	1:10560
E	74m NW	Unspecified Disused Shafts	1980	1:10000
E	74m NW	Unspecified Disused Shafts	1974	1:10000
J	76m SE	Unspecified Old Shaft	1908	1:10560
E	76m NW	Unspecified Old Shafts	1958	1:10560
K	76m SW	Unspecified Old Shaft	1908	1:10560
E	77m W	Disused Tin and Copper	1908	1:10560
K	78m SW	Unspecified Disused Shaft	1992	1:10000
K	78m SW	Unspecified Disused Shaft	1980	1:10000
K	78m SW	Unspecified Disused Shaft	1974	1:10000
J	78m SE	Unspecified Disused Shafts	1992	1:10000
J	78m SE	Unspecified Disused Shafts	1980	1:10000
J	78m SE	Unspecified Disused Shafts	1974	1:10000
E	79m NW	Unspecified Old Shafts	1908	1:10560
E	83m NW	Unspecified Old Shafts	1958	1:10560
J	83m SE	Unspecified Old Shaft	1879	1:10560
F	100m NE	Unspecified Disused Shaft	1980	1:10000



ID	Location	Land Use	Year of mapping	Mapping scale
F	100m NE	Unspecified Disused Shaft	1973	1:10000
M	107m NW	Unspecified Disused Mine	1980	1:10000
M	107m NW	Unspecified Disused Mine	1974	1:10000
L	112m NW	Unspecified Shafts	1879	1:10560
E	116m NW	Unspecified Shaft	1879	1:10560
L	117m NW	Unspecified Shafts	1879	1:10560
E	117m NW	Unspecified Old Shafts	1908	1:10560
N	119m W	Unspecified Disused Shafts	1980	1:10000
N	119m W	Unspecified Disused Shafts	1974	1:10000
E	121m NW	Unspecified Old Shafts	1958	1:10560
N	122m W	Unspecified Old Shafts	1958	1:10560
P	124m NW	Unspecified Disused Mine	1958	1:10560
P	136m NW	Unspecified Disused Shaft	1988	1:10000
P	136m NW	Unspecified Disused Shaft	1980	1:10000
P	136m NW	Unspecified Disused Shaft	1973	1:10000
P	138m NW	Unspecified Old Shaft	1958	1:10560
P	138m NW	Unspecified Old Shaft	1908	1:10560
E	144m NW	Unspecified Shafts	1879	1:10560
G	144m E	Unspecified Old Shafts	1958	1:10560
G	146m E	Unspecified Old Shafts	1908	1:10560
G	146m E	Unspecified Disused Shafts	1992	1:10000
G	146m E	Unspecified Disused Shafts	1980	1:10000
G	146m E	Unspecified Disused Shafts	1974	1:10000
E	175m W	Unspecified Shafts	1879	1:10560
E	175m W	Unspecified Old Shaft	1908	1:10560
M	176m NW	Unspecified Old Shaft	1908	1:10560
M	176m NW	Unspecified Shafts	1879	1:10560
E	178m W	Unspecified Disused Shafts	1992	1:10000



ID	Location	Land Use	Year of mapping	Mapping scale
E	178m W	Unspecified Disused Shafts	1980	1:10000
E	178m W	Unspecified Disused Shafts	1974	1:10000
M	184m NW	Unspecified Old Shaft	1958	1:10560
E	193m W	Unspecified Old Shafts	1908	1:10560
E	193m W	Unspecified Shafts	1879	1:10560
E	193m W	Unspecified Disused Shafts	1992	1:10000
E	193m W	Unspecified Disused Shafts	1980	1:10000
E	193m W	Unspecified Disused Shafts	1974	1:10000
E	200m W	Unspecified Old Shafts	1958	1:10560
R	202m NE	Disused Copper Mine	1908	1:10560
R	202m NE	Disused Copper Mine	1879	1:10560
M	205m NW	Unspecified Shafts	1879	1:10560
Q	205m SW	Unspecified Disused Shaft	1992	1:10000
Q	205m SW	Unspecified Disused Shaft	1980	1:10000
Q	205m SW	Unspecified Disused Shaft	1974	1:10000
Q	206m SW	Unspecified Old Shaft	1958	1:10560
U	229m SE	Unspecified Old Shaft	1958	1:10560
U	230m SE	Unspecified Old Shaft	1908	1:10560
E	232m W	Unspecified Disused Shafts	1992	1:10000
E	232m W	Unspecified Disused Shafts	1980	1:10000
E	232m W	Unspecified Disused Shafts	1974	1:10000
U	233m SE	Unspecified Disused Shaft	1992	1:10000
U	233m SE	Unspecified Disused Shaft	1980	1:10000
U	233m SE	Unspecified Disused Shaft	1974	1:10000
E	234m W	Unspecified Old Shafts	1908	1:10560
M	237m NW	Unspecified Shaft	1879	1:10560
E	237m W	Unspecified Old Shafts	1958	1:10560
U	239m SE	Unspecified Old Shaft	1879	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
T	240m SE	Unspecified Old Shafts	1879	1:10560
V	256m S	Unspecified Disused Shaft	1992	1:10000
V	256m S	Unspecified Disused Shaft	1980	1:10000
V	256m S	Unspecified Disused Shaft	1974	1:10000
V	258m S	Unspecified Old Shaft	1958	1:10560
V	260m S	Unspecified Old Shaft	1908	1:10560
V	261m S	Unspecified Disused Shaft	1992	1:10000
V	261m S	Unspecified Disused Shaft	1980	1:10000
V	261m S	Unspecified Disused Shaft	1974	1:10000
E	261m W	Unspecified Old Shafts	1908	1:10560
E	264m W	Unspecified Old Shafts	1958	1:10560
S	266m NE	Unspecified Old Shaft	1879	1:10560
W	274m NW	Unspecified Shaft	1908	1:10560
W	274m NW	Unspecified Shaft	1879	1:10560
W	276m NW	Unspecified Disused Shaft	1988	1:10000
W	276m NW	Unspecified Disused Shaft	1980	1:10000
W	276m NW	Unspecified Disused Shaft	1973	1:10000
W	276m NW	Unspecified Shaft	1958	1:10560
X	293m SE	Unspecified Old Shafts	1879	1:10560
E	304m W	Unspecified Old Shafts	1908	1:10560
E	308m W	Unspecified Old Shafts	1958	1:10560
AB	321m E	Unspecified Disused Shaft	1988	1:10000
AB	321m E	Unspecified Disused Shaft	1980	1:10000
AB	321m E	Unspecified Disused Shaft	1973	1:10000
AB	322m E	Unspecified Old Shaft	1958	1:10560
AA	324m S	Unspecified Disused Shaft	1992	1:10000
AA	324m S	Unspecified Disused Shaft	1980	1:10000
AA	324m S	Unspecified Disused Shaft	1974	1:10000



ID	Location	Land Use	Year of mapping	Mapping scale
R	331m NE	Unspecified Disused Mine	1988	1:10000
R	331m NE	Unspecified Disused Mine	1980	1:10000
R	331m NE	Unspecified Disused Mine	1973	1:10000
AB	335m E	Unspecified Old Shaft	1908	1:10560
AB	335m E	Unspecified Old Shaft	1879	1:10560
R	337m NE	Unspecified Disused Mine	1958	1:10560
Z	337m NW	Unspecified Shaft	1879	1:10560
AC	341m NW	Unspecified Old Shaft	1908	1:10560
AC	343m NW	Unspecified Shaft	1879	1:10560
AD	355m SE	Unspecified Old Shaft	1958	1:10560
AD	356m SE	Unspecified Disused Shaft	1992	1:10000
AD	356m SE	Unspecified Disused Shaft	1980	1:10000
AD	356m SE	Unspecified Disused Shaft	1974	1:10000
R	357m NE	Unspecified Disused Shafts	1988	1:10000
R	357m NE	Unspecified Disused Shafts	1980	1:10000
R	357m NE	Unspecified Disused Shafts	1973	1:10000
R	357m NE	Unspecified Old Shafts	1958	1:10560
Z	357m NW	Unspecified Disused Shaft	1988	1:10000
Z	357m NW	Unspecified Disused Shaft	1980	1:10000
Z	357m NW	Unspecified Disused Shaft	1973	1:10000
Z	357m NW	Unspecified Shaft	1958	1:10560
R	357m NE	Unspecified Old Shafts	1908	1:10560
Z	358m NW	Unspecified Shaft	1908	1:10560
AD	361m SE	Unspecified Old Shaft	1908	1:10560
AD	361m SE	Unspecified Old Shaft	1879	1:10560
R	361m NE	Unspecified Old Shaft	1879	1:10560
AE	375m N	Unspecified Old Shaft	1908	1:10560
AE	375m N	Unspecified Old Shaft	1879	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
AE	377m N	Unspecified Disused Shaft	1988	1:10000
AE	377m N	Unspecified Disused Shaft	1980	1:10000
AE	382m N	Unspecified Old Shafts	1958	1:10560
R	385m NE	Unspecified Old Shafts	1908	1:10560
R	386m NE	Unspecified Disused Shafts	1988	1:10000
R	386m NE	Unspecified Disused Shafts	1980	1:10000
R	386m NE	Unspecified Disused Shafts	1973	1:10000
R	397m NE	Unspecified Disused Shafts	1988	1:10000
R	397m NE	Unspecified Disused Shafts	1980	1:10000
R	397m NE	Unspecified Disused Shafts	1973	1:10000
AG	406m W	Unspecified Shaft	1879	1:10560
AG	412m W	Unspecified Old Shafts	1908	1:10560
AG	414m W	Unspecified Disused Shaft	1992	1:10000
AG	414m W	Unspecified Old Shafts	1958	1:10560
AG	414m W	Unspecified Disused Shaft	1980	1:10000
AG	414m W	Unspecified Disused Shaft	1974	1:10000
I	427m NE	Unspecified Disused Shafts	1988	1:10000
I	427m NE	Unspecified Disused Shafts	1980	1:10000
I	427m NE	Unspecified Old Shafts	1908	1:10560
I	427m NE	Unspecified Old Shaft	1879	1:10560
I	428m NE	Unspecified Disused Shafts	1973	1:10000
AG	428m W	Unspecified Old Shafts	1958	1:10560
I	432m NE	Unspecified Old Shafts	1958	1:10560
AI	435m NW	Tin and Copper Mine	1879	1:10560
AI	436m NW	Disused Tin and Copper	1908	1:10560
AG	441m W	Unspecified Old Shafts	1908	1:10560
I	442m NE	Unspecified Disused Shaft	1988	1:10000
I	442m NE	Unspecified Disused Shaft	1980	1:10000



ID	Location	Land Use	Year of mapping	Mapping scale
I	442m NE	Unspecified Disused Shaft	1973	1:10000
AG	444m W	Unspecified Old Shafts	1958	1:10560
R	445m NE	Unspecified Old Shafts	1958	1:10560
R	446m NE	Unspecified Old Shafts	1908	1:10560
AI	453m NW	Unspecified Shaft	1879	1:10560
16	459m NE	Unspecified Shaft	1879	1:10560
AI	459m NW	Unspecified Shaft	1958	1:10560
AI	462m NW	Unspecified Disused Shaft	1988	1:10000
AI	462m NW	Unspecified Disused Shaft	1980	1:10000
AI	462m NW	Unspecified Disused Shaft	1973	1:10000
AI	466m NW	Unspecified Shaft	1908	1:10560
I	467m N	Unspecified Old Shafts	1908	1:10560
I	467m N	Unspecified Old Shaft	1879	1:10560
I	471m N	Unspecified Disused Shafts	1988	1:10000
I	471m N	Unspecified Disused Shafts	1980	1:10000
I	471m N	Unspecified Disused Shafts	1973	1:10000
I	472m N	Unspecified Old Shafts	1958	1:10560
R	474m NE	Unspecified Old Shaft	1879	1:10560
AK	475m W	Unspecified Old Shaft	1908	1:10560
AK	475m W	Unspecified Shaft	1879	1:10560
AM	475m W	Disused Tin and Copper Mine	1879	1:10560
AK	479m W	Unspecified Old Shaft	1958	1:10560
R	494m NE	Unspecified Disused Shafts	1988	1:10000
R	494m NE	Unspecified Disused Shafts	1980	1:10000
R	494m NE	Unspecified Disused Shafts	1973	1:10000
R	497m NE	Unspecified Old Shafts	1908	1:10560
R	497m NE	Unspecified Old Shafts	1958	1:10560
AO	512m NW	Unspecified Shaft	1958	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
AN	525m SE	Unspecified Old Shaft	1908	1:10560
AN	526m SE	Unspecified Disused Shafts	1992	1:10000
AN	526m SE	Unspecified Disused Shafts	1980	1:10000
AN	526m SE	Unspecified Disused Shafts	1974	1:10000
AL	527m W	Unspecified Old Shafts	1908	1:10560
AN	528m SE	Unspecified Old Shaft	1958	1:10560
AN	529m SE	Unspecified Disused Shafts	1992	1:10000
AN	529m SE	Unspecified Disused Shafts	1980	1:10000
AN	529m SE	Unspecified Disused Shafts	1974	1:10000
AL	530m W	Unspecified Disused Shaft	1992	1:10000
AL	530m W	Unspecified Old Shafts	1958	1:10560
AL	530m W	Unspecified Disused Shaft	1980	1:10000
AL	530m W	Unspecified Disused Shaft	1974	1:10000
AN	531m SE	Unspecified Old Shafts	1879	1:10560
AN	534m SE	Unspecified Old Shaft	1908	1:10560
AN	534m SE	Unspecified Shaft	1879	1:10560
AS	559m NE	Unspecified Old Shafts	1908	1:10560
AS	559m NE	Unspecified Old Shafts	1958	1:10560
AS	562m NE	Unspecified Disused Shaft	1988	1:10000
AS	562m NE	Unspecified Disused Shaft	1980	1:10000
AS	562m NE	Unspecified Disused Shaft	1973	1:10000
AS	562m NE	Unspecified Old Shaft	1879	1:10560
AL	566m W	Unspecified Old Shafts	1908	1:10560
AL	569m W	Unspecified Old Shafts	1958	1:10560
AN	572m SE	Unspecified Old Shafts	1958	1:10560
AN	582m SE	Unspecified Old Shafts	1958	1:10560
AN	583m SE	Unspecified Disused Shafts	1992	1:10000
AN	583m SE	Unspecified Disused Shafts	1980	1:10000



ID	Location	Land Use	Year of mapping	Mapping scale
AN	583m SE	Unspecified Disused Shafts	1974	1:10000
AN	587m SE	Unspecified Old Shafts	1908	1:10560
AN	587m SE	Unspecified Old Shafts	1879	1:10560
AW	588m SE	Unspecified Old Shaft	1879	1:10560
AT	590m NE	Unspecified Old Shafts	1958	1:10560
AV	590m W	Unspecified Old Shaft	1908	1:10560
AT	591m NE	Unspecified Old Shafts	1908	1:10560
AV	592m W	Unspecified Shaft	1879	1:10560
AU	593m SE	Unspecified Shaft	1958	1:10560
23	593m SW	Unspecified Shaft	1879	1:10560
AU	593m SE	Unspecified Disused Shaft	1992	1:10000
AU	593m SE	Unspecified Disused Shaft	1980	1:10000
AU	593m SE	Unspecified Disused Shaft	1974	1:10000
AT	593m NE	Unspecified Disused Shafts	1988	1:10000
AT	593m NE	Unspecified Disused Shafts	1980	1:10000
AT	593m NE	Unspecified Disused Shafts	1973	1:10000
AV	595m W	Unspecified Disused Shafts	1992	1:10000
AV	595m W	Unspecified Old Shaft	1958	1:10560
AV	595m W	Unspecified Disused Shafts	1980	1:10000
AV	595m W	Unspecified Disused Shafts	1974	1:10000
AX	600m W	Unspecified Disused Mine	1958	1:10560
AU	601m SE	Unspecified Shaft	1908	1:10560
AU	601m SE	Unspecified Shaft	1879	1:10560
AN	613m SE	Unspecified Shaft	1879	1:10560
AY	616m SW	Unspecified Disused Shaft	1992	1:10000
AY	616m SW	Unspecified Disused Shaft	1980	1:10000
AY	616m SW	Unspecified Disused Shaft	1974	1:10000
AY	621m SW	Unspecified Old Shaft	1908	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
AY	622m SW	Unspecified Old Shaft	1958	1:10560
AW	628m SE	Unspecified Shaft	1958	1:10560
AZ	631m NW	Unspecified Disused Shaft	1988	1:10000
AZ	631m NW	Unspecified Disused Shaft	1980	1:10000
AZ	631m NW	Unspecified Disused Shaft	1973	1:10000
AW	631m SE	Unspecified Disused Shafts	1992	1:10000
AW	631m SE	Unspecified Disused Shafts	1980	1:10000
AW	631m SE	Unspecified Disused Shafts	1974	1:10000
AZ	634m NW	Unspecified Old Shaft	1908	1:10560
AW	636m SE	Unspecified Shaft	1908	1:10560
AW	636m SE	Unspecified Shaft	1879	1:10560
AZ	636m NW	Unspecified Old Shaft	1958	1:10560
AN	638m SE	Unspecified Old Shaft	1958	1:10560
AN	641m SE	Unspecified Disused Shafts	1992	1:10000
AN	641m SE	Unspecified Disused Shafts	1980	1:10000
AN	641m SE	Unspecified Disused Shafts	1974	1:10000
AN	641m SE	Unspecified Old Shaft	1908	1:10560
BC	643m NE	Unspecified Disused Shaft	1988	1:10000
AW	660m SE	Unspecified Shaft	1958	1:10560
BD	661m NW	Unspecified Shaft	1879	1:10560
AW	668m SE	Unspecified Shaft	1908	1:10560
AW	668m SE	Unspecified Shaft	1879	1:10560
BB	675m W	Unspecified Disused Shaft	1992	1:10000
BB	675m W	Unspecified Disused Shaft	1980	1:10000
BB	675m W	Unspecified Disused Shaft	1974	1:10000
BB	677m W	Unspecified Old Shaft	1908	1:10560
27	690m W	Unspecified Shaft	1879	1:10560
BF	694m E	Unspecified Old Shaft	1958	1:10560

ID	Location	Land Use	Year of mapping	Mapping scale
BF	696m E	Unspecified Disused Shaft	1992	1:10000
BF	696m E	Unspecified Disused Shaft	1980	1:10000
BF	696m E	Unspecified Disused Shaft	1974	1:10000
BF	697m E	Unspecified Old Shaft	1908	1:10560
BK	706m NW	Disused Tin and Copper Mine	1879	1:10560
BI	707m W	Unspecified Shaft	1879	1:10560
BL	708m E	Disused Tin and Copper	1908	1:10560
BL	708m E	Disused Tin and Copper	1879	1:10560
BK	710m NW	Disused Tin and Copper Mine	1908	1:10560
32	716m SW	Unspecified Shaft	1879	1:10560
BM	728m NE	Unspecified Disused Shafts	1988	1:10000
BM	728m NE	Unspecified Disused Shafts	1980	1:10000
BM	728m NE	Unspecified Disused Shafts	1973	1:10000
BM	728m NE	Unspecified Old Shaft	1908	1:10560
BM	729m NE	Unspecified Old Shafts	1958	1:10560
-	730m W	Unspecified Old Shaft	1958	1:10560
-	731m NW	Unspecified Disused Shaft	1988	1:10000
-	731m NW	Unspecified Disused Shaft	1980	1:10000
-	731m NW	Unspecified Disused Shaft	1973	1:10000
-	731m NW	Unspecified Shaft	1958	1:10560
BG	732m SE	Unspecified Old Shaft	1958	1:10560
-	732m NW	Unspecified Shaft	1908	1:10560
-	733m NW	Unspecified Shaft	1879	1:10560
BG	737m SE	Unspecified Disused Shafts	1992	1:10000
BG	737m SE	Unspecified Disused Shafts	1980	1:10000
BG	737m SE	Unspecified Disused Shafts	1974	1:10000
BG	740m SE	Unspecified Old Shafts	1908	1:10560
BG	740m SE	Unspecified Old Shafts	1879	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
BK	751m NW	Unspecified Disused Mine	1988	1:10000
BK	751m NW	Unspecified Disused Mine	1980	1:10000
BK	751m NW	Unspecified Disused Mine	1973	1:10000
BK	751m NW	Unspecified Disused Mine	1958	1:10560
BF	752m SE	Unspecified Old Shafts	1908	1:10560
BF	752m SE	Unspecified Shafts	1879	1:10560
BF	753m SE	Unspecified Old Shafts	1958	1:10560
BF	755m SE	Unspecified Disused Shafts	1992	1:10000
BF	755m SE	Unspecified Disused Shafts	1980	1:10000
BF	755m SE	Unspecified Disused Shafts	1974	1:10000
BO	757m SE	Unspecified Old Shaft	1958	1:10560
BO	758m SE	Unspecified Disused Shaft	1992	1:10000
BO	758m SE	Unspecified Disused Shaft	1980	1:10000
BO	758m SE	Unspecified Disused Shaft	1974	1:10000
-	760m N	Unspecified Old Shaft	1879	1:10560
BO	760m SE	Unspecified Old Shaft	1908	1:10560
-	762m N	Unspecified Disused Shaft	1988	1:10000
-	762m N	Unspecified Disused Shaft	1980	1:10000
-	762m N	Unspecified Disused Shaft	1973	1:10000
-	765m N	Unspecified Old Shaft	1958	1:10560
-	765m E	Unspecified Old Shafts	1958	1:10560
-	767m E	Unspecified Old Shafts	1908	1:10560
-	767m E	Unspecified Disused Shafts	1992	1:10000
-	767m E	Unspecified Disused Shafts	1980	1:10000
-	767m E	Unspecified Disused Shafts	1974	1:10000
BP	773m W	Unspecified Old Shaft	1908	1:10560
-	775m W	Unspecified Disused Shafts	1992	1:10000
-	775m W	Unspecified Disused Shafts	1980	1:10000



ID	Location	Land Use	Year of mapping	Mapping scale
-	775m W	Unspecified Disused Shafts	1974	1:10000
BP	775m W	Unspecified Shaft	1879	1:10560
-	778m W	Unspecified Disused Shaft	1992	1:10000
-	778m W	Unspecified Shaft	1958	1:10560
-	778m W	Unspecified Disused Shaft	1980	1:10000
-	778m W	Unspecified Disused Shaft	1974	1:10000
-	780m W	Unspecified Old Shafts	1908	1:10560
-	780m W	Unspecified Shaft	1879	1:10560
-	782m N	Unspecified Old Shaft	1879	1:10560
-	786m W	Unspecified Old Shafts	1958	1:10560
-	791m W	Unspecified Old Shaft	1908	1:10560
-	793m W	Unspecified Shaft	1879	1:10560
-	797m W	Unspecified Disused Shaft	1992	1:10000
-	797m W	Unspecified Old Shaft	1958	1:10560
-	797m W	Unspecified Disused Shaft	1980	1:10000
-	797m W	Unspecified Disused Shaft	1974	1:10000
BW	799m SE	Unspecified Disused Mine	1992	1:10000
BW	799m SE	Unspecified Disused Mine	1958	1:10560
BW	799m SE	Unspecified Disused Mine	1980	1:10000
BW	799m SE	Unspecified Disused Mine	1974	1:10000
-	800m W	Unspecified Disused Shafts	1992	1:10000
-	800m W	Unspecified Disused Shafts	1980	1:10000
-	800m W	Unspecified Disused Shafts	1974	1:10000
BS	800m NE	Unspecified Shaft	1879	1:10560
BS	804m NE	Unspecified Disused Shafts	1988	1:10000
BS	804m NE	Unspecified Disused Shafts	1980	1:10000
BS	804m NE	Unspecified Disused Shafts	1973	1:10000
-	809m W	Unspecified Old Shafts	1908	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
-	810m SW	Unspecified Shaft	1879	1:10560
-	811m W	Unspecified Old Shafts	1958	1:10560
BW	823m SE	Disused Tin and Copper Mine	1908	1:10560
BW	823m SE	Tin and Copper Mine	1879	1:10560
-	824m E	Unspecified Disused Shafts	1992	1:10000
-	824m E	Unspecified Old Shafts	1958	1:10560
-	824m E	Unspecified Disused Shafts	1980	1:10000
-	824m E	Unspecified Disused Shafts	1974	1:10000
-	825m W	Unspecified Disused Shafts	1992	1:10000
-	825m W	Unspecified Disused Shafts	1980	1:10000
-	825m W	Unspecified Disused Shafts	1974	1:10000
-	825m SW	Unspecified Shaft	1879	1:10560
-	827m E	Unspecified Old Shafts	1908	1:10560
BT	828m NE	Unspecified Old Shaft	1908	1:10560
-	829m W	Unspecified Old Shafts	1908	1:10560
BW	830m SE	Unspecified Shaft	1958	1:10560
BT	830m NE	Unspecified Disused Shafts	1980	1:10000
BT	830m NE	Unspecified Disused Shafts	1973	1:10000
BT	832m NE	Unspecified Old Shaft	1958	1:10560
-	832m W	Unspecified Old Shafts	1958	1:10560
-	842m NW	Unspecified Disused Shaft	1988	1:10000
-	842m NW	Unspecified Disused Shaft	1980	1:10000
-	842m NW	Unspecified Disused Shaft	1973	1:10000
-	843m NW	Unspecified Old Shaft	1908	1:10560
-	843m NW	Unspecified Shaft	1879	1:10560
BW	847m SE	Unspecified Old Shaft	1992	1:10000
BW	847m SE	Unspecified Disused Shaft	1980	1:10000
BW	847m SE	Unspecified Old Shaft	1974	1:10000



ID	Location	Land Use	Year of mapping	Mapping scale
-	849m NW	Unspecified Old Shaft	1958	1:10560
BW	850m SE	Unspecified Shaft	1879	1:10560
-	865m E	Unspecified Old Shafts	1958	1:10560
CB	865m SE	Tin and Copper Mine	1879	1:10560
-	867m E	Unspecified Old Shafts	1908	1:10560
-	868m E	Unspecified Disused Shafts	1992	1:10000
-	868m E	Unspecified Disused Shafts	1980	1:10000
-	868m E	Unspecified Disused Shafts	1974	1:10000
-	869m N	Unspecified Old Shaft	1879	1:10560
-	870m W	Unspecified Disused Shafts	1992	1:10000
-	870m W	Unspecified Disused Shafts	1980	1:10000
-	870m W	Unspecified Disused Shafts	1974	1:10000
-	870m W	Unspecified Shaft	1879	1:10560
-	871m E	Unspecified Shafts	1879	1:10560
-	872m E	Unspecified Old Shafts	1908	1:10560
-	874m E	Unspecified Disused Shafts	1992	1:10000
-	874m E	Unspecified Disused Shafts	1980	1:10000
-	874m E	Unspecified Disused Shafts	1974	1:10000
-	875m W	Unspecified Disused Shafts	1992	1:10000
-	875m W	Unspecified Disused Shafts	1980	1:10000
-	875m W	Unspecified Disused Shafts	1974	1:10000
-	875m W	Unspecified Shaft	1879	1:10560
BW	876m SE	Unspecified Shaft	1908	1:10560
-	877m W	Unspecified Old Shaft	1908	1:10560
-	877m W	Unspecified Disused Shafts	1992	1:10000
-	877m W	Unspecified Disused Shafts	1980	1:10000
-	877m W	Unspecified Disused Shafts	1974	1:10000
-	878m SW	Unspecified Old Shaft	1908	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
-	878m W	Unspecified Shaft	1879	1:10560
-	879m W	Unspecified Old Shafts	1908	1:10560
-	879m SW	Unspecified Disused Shaft	1992	1:10000
-	879m SW	Unspecified Disused Shaft	1980	1:10000
-	879m SW	Unspecified Disused Shaft	1974	1:10000
-	880m N	Unspecified Old Shaft	1879	1:10560
-	881m W	Unspecified Old Shafts	1908	1:10560
-	881m W	Unspecified Old Shafts	1958	1:10560
-	882m W	Unspecified Shaft	1958	1:10560
-	883m SW	Unspecified Old Shaft	1958	1:10560
-	884m SW	Unspecified Shaft	1879	1:10560
-	886m W	Unspecified Old Shafts	1958	1:10560
BV	887m SW	Unspecified Shaft	1879	1:10560
-	888m NE	Unspecified Shaft	1879	1:10560
-	891m NW	Unspecified Shaft	1908	1:10560
-	891m NW	Unspecified Shaft	1879	1:10560
-	895m NW	Unspecified Shaft	1958	1:10560
-	895m NE	Unspecified Disused Shaft	1988	1:10000
-	895m NE	Unspecified Disused Shaft	1980	1:10000
-	895m NE	Unspecified Disused Shaft	1973	1:10000
-	907m NE	Unspecified Shaft	1908	1:10560
-	907m NE	Unspecified Shaft	1879	1:10560
-	907m E	Unspecified Old Shafts	1958	1:10560
-	908m E	Unspecified Disused Shafts	1992	1:10000
-	908m E	Unspecified Disused Shafts	1980	1:10000
-	908m E	Unspecified Disused Shafts	1974	1:10000
-	909m NE	Unspecified Shaft	1908	1:10560
-	911m E	Unspecified Old Shafts	1958	1:10560

ID	Location	Land Use	Year of mapping	Mapping scale
-	912m E	Unspecified Old Shafts	1908	1:10560
-	914m E	Unspecified Disused Shafts	1992	1:10000
-	914m E	Unspecified Disused Shafts	1980	1:10000
-	914m E	Unspecified Disused Shafts	1974	1:10000
-	915m W	Unspecified Disused Shafts	1992	1:10000
-	915m W	Unspecified Disused Shafts	1980	1:10000
-	915m W	Unspecified Disused Shafts	1974	1:10000
-	915m W	Unspecified Disused Shafts	1992	1:10000
-	915m W	Unspecified Disused Shafts	1980	1:10000
-	915m W	Unspecified Disused Shafts	1974	1:10000
-	917m NE	Unspecified Shaft	1879	1:10560
-	917m NE	Unspecified Old Shaft	1958	1:10560
-	919m W	Unspecified Old Shaft	1908	1:10560
-	919m W	Unspecified Shafts	1879	1:10560
-	921m NE	Unspecified Old Shaft	1908	1:10560
-	921m W	Unspecified Disused Shafts	1992	1:10000
-	921m W	Unspecified Disused Shafts	1980	1:10000
-	921m W	Unspecified Disused Shafts	1974	1:10000
-	922m NE	Unspecified Disused Shaft	1988	1:10000
-	922m NE	Unspecified Disused Shaft	1980	1:10000
-	922m NE	Unspecified Disused Shaft	1973	1:10000
-	923m W	Unspecified Old Shaft	1958	1:10560
-	926m E	Unspecified Shafts	1879	1:10560
-	926m NE	Unspecified Shaft	1879	1:10560
-	928m E	Unspecified Shafts	1879	1:10560
-	929m E	Unspecified Disused Shafts	1992	1:10000
-	929m E	Unspecified Disused Shafts	1980	1:10000
-	929m E	Unspecified Disused Shafts	1974	1:10000



ID	Location	Land Use	Year of mapping	Mapping scale
-	934m SE	Engine Shaft	1992	1:10000
-	934m SE	Engine Shaft	1980	1:10000
-	934m SE	Engine Shaft	1974	1:10000
-	934m W	Unspecified Old Shafts	1958	1:10560
-	942m W	Engine Shaft	1908	1:10560
-	942m W	Unspecified Shaft	1958	1:10560
-	943m NW	Unspecified Old Shaft	1879	1:10560
-	946m SW	Unspecified Old Shaft	1908	1:10560
-	946m SW	Unspecified Old Shaft	1958	1:10560
-	946m SW	Unspecified Shaft	1879	1:10560
-	951m SE	Unspecified Shaft	1879	1:10560
-	953m SE	Unspecified Shaft	1958	1:10560
-	955m W	Unspecified Shafts	1879	1:10560
-	955m SE	Unspecified Disused Shaft	1992	1:10000
-	955m SE	Unspecified Disused Shaft	1980	1:10000
-	955m SE	Unspecified Disused Shaft	1974	1:10000
-	957m NE	Unspecified Shaft	1958	1:10560
-	958m SE	Unspecified Shaft	1908	1:10560
-	960m W	Unspecified Old Shaft	1908	1:10560
-	962m W	Unspecified Shaft	1879	1:10560
-	963m W	Unspecified Disused Shafts	1992	1:10000
-	963m W	Unspecified Old Shaft	1958	1:10560
-	963m W	Unspecified Disused Shafts	1980	1:10000
-	963m W	Unspecified Disused Shafts	1974	1:10000
-	963m W	Unspecified Disused Shafts	1992	1:10000
-	963m W	Unspecified Disused Shafts	1980	1:10000
-	963m W	Unspecified Disused Shafts	1974	1:10000
-	964m W	Unspecified Disused Shafts	1992	1:10000



ID	Location	Land Use	Year of mapping	Mapping scale
-	964m W	Unspecified Disused Shafts	1980	1:10000
-	964m W	Unspecified Disused Shafts	1974	1:10000
-	970m W	Unspecified Old Shaft	1908	1:10560
-	970m W	Unspecified Shaft	1879	1:10560
-	970m N	Unspecified Old Shaft	1879	1:10560
-	972m W	Unspecified Old Shafts	1958	1:10560
-	979m W	Unspecified Old Shafts	1908	1:10560
-	984m W	Unspecified Disused Shafts	1992	1:10000
-	984m W	Unspecified Old Shafts	1958	1:10560
-	984m W	Unspecified Disused Shafts	1980	1:10000
-	984m W	Unspecified Disused Shafts	1974	1:10000
-	990m SE	Unspecified Disused Shaft	1992	1:10000
-	990m SE	Unspecified Disused Shaft	1980	1:10000
-	990m SE	Unspecified Disused Shaft	1974	1:10000
-	990m SE	Engine Shaft	1958	1:10560
-	991m W	Unspecified Old Shafts	1908	1:10560
-	991m SE	Engine Shaft	1908	1:10560
-	996m W	Unspecified Disused Shafts	1992	1:10000
-	996m W	Unspecified Old Shafts	1958	1:10560
-	996m W	Unspecified Disused Shafts	1980	1:10000
-	996m W	Unspecified Disused Shafts	1974	1:10000
-	997m W	Unspecified Disused Shafts	1992	1:10000
-	997m W	Unspecified Disused Shafts	1980	1:10000
-	997m W	Unspecified Disused Shafts	1974	1:10000

This is data is sourced from Ordnance Survey/Groundsure.



18.5 Historical Mineral Planning Areas

Records within 500m

0

Boundaries of mineral planning permissions for England and Wales. This data was collated between the 1940s (and retrospectively to the 1930s) and the mid 1980s. The data includes permitted, withdrawn and refused permissions.

This data is sourced from the British Geological Survey.

18.6 Non-coal mining

Records within 1000m

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The potential for historical non-coal mining to have affected an area. The assessment is drawn from expert knowledge and literature in addition to the digital geological map of Britain. Mineral commodities may be divided into seven general categories - vein minerals, chalk, oil shale, building stone, bedded ores, evaporites and 'other' commodities (including ball clay, jet, black marble, graphite and chert).

Features are displayed on the Mining, ground workings and natural cavities map on **page 118**

ID	Location	Name	Commodity	Class	Likelihood
1	On site	Not available	Vein Mineral	E	Underground mining is known to have occurred within or very close to the area. Potential for difficult ground conditions should be investigated. Potential for localised subsidence is at a level where it should be considered
H	34m NW	Not available	Vein Mineral	D	Underground mining is known or considered likely to have occurred within or close to the area. Potential for difficult ground conditions are at a level where they should be considered
I	38m N	Not available	Vein Mineral	E	Underground mining is known to have occurred within or very close to the area. Potential for difficult ground conditions should be investigated. Potential for localised subsidence is at a level where it should be considered
3	59m NW	Not available	Vein Mineral	D	Underground mining is known or considered likely to have occurred within or close to the area. Potential for difficult ground conditions are at a level where they should be considered
4	63m SE	Not available	Vein Mineral	D	Underground mining is known or considered likely to have occurred within or close to the area. Potential for difficult ground conditions are at a level where they should be considered
E	69m W	Not available	Vein Mineral	D	Underground mining is known or considered likely to have occurred within or close to the area. Potential for difficult ground conditions are at a level where they should be considered



ID	Location	Name	Commodity	Class	Likelihood
7	250m SE	South West England	Vein Mineral	C	Small scale underground mining may have occurred; mine adits, shafts and tunnels may be present. Potential for localised difficult ground conditions are at a level where they should be considered
11	299m NE	Not available	Vein Mineral	D	Underground mining is known or considered likely to have occurred within or close to the area. Potential for difficult ground conditions are at a level where they should be considered
12	390m SE	Not available	Vein Mineral	E	Underground mining is known to have occurred within or very close to the area. Potential for difficult ground conditions should be investigated. Potential for localised subsidence is at a level where it should be considered
13	409m E	South West England	Vein Mineral	C	Small scale underground mining may have occurred; mine adits, shafts and tunnels may be present. Potential for localised difficult ground conditions are at a level where they should be considered
14	431m NW	Not available	Vein Mineral	D	Underground mining is known or considered likely to have occurred within or close to the area. Potential for difficult ground conditions are at a level where they should be considered
AP	507m N	Not available	Vein Mineral	E	Underground mining is known to have occurred within or very close to the area. Potential for difficult ground conditions should be investigated. Potential for localised subsidence is at a level where it should be considered
AQ	516m NW	Not available	Vein Mineral	E	Underground mining is known to have occurred within or very close to the area. Potential for difficult ground conditions should be investigated. Potential for localised subsidence is at a level where it should be considered
22	579m E	South West England	Vein Mineral	C	Small scale underground mining may have occurred; mine adits, shafts and tunnels may be present. Potential for localised difficult ground conditions are at a level where they should be considered
AP	582m N	South West England	Vein Mineral	C	Small scale underground mining may have occurred; mine adits, shafts and tunnels may be present. Potential for localised difficult ground conditions are at a level where they should be considered
26	676m E	Not available	Vein Mineral	E	Underground mining is known to have occurred within or very close to the area. Potential for difficult ground conditions should be investigated. Potential for localised subsidence is at a level where it should be considered



ID	Location	Name	Commodity	Class	Likelihood
28	690m SE	South West England	Vein Mineral	C	Small scale underground mining may have occurred; mine adits, shafts and tunnels may be present. Potential for localised difficult ground conditions are at a level where they should be considered
29	703m E	Not available	Vein Mineral	E	Underground mining is known to have occurred within or very close to the area. Potential for difficult ground conditions should be investigated. Potential for localised subsidence is at a level where it should be considered
-	923m SE	Not available	Vein Mineral	E	Underground mining is known to have occurred within or very close to the area. Potential for difficult ground conditions should be investigated. Potential for localised subsidence is at a level where it should be considered

This data is sourced from the British Geological Survey.

18.7 Mining cavities

Records within 1000m

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Industry recognised national database of mining cavities. Degraded mines may result in hazardous subsidence (crown holes). Climatic conditions and water escape can also trigger subsidence over mine entrances and workings.

Features are displayed on the Mining, ground workings and natural cavities map on **page 118**

ID	Location	Mine Address	Mineral	Data source	Publisher
B	16m NW	Hallenbeagle, Scorrier, Cornwall	Bornite, Chalcocite, Copper, Malachite, Native Copper, Tetrahedrite	CORNISH MINES (METALLIFEROUS AND ASSOCIATED MINERALS 1845-1913)	UNIVERSITY OF EXETER
M	194m NW	Downs East, Scorrier, Cornwall	Bornite, Chalcocite, Copper, Malachite, Native Copper, Tetrahedrite	CORNISH MINES (METALLIFEROUS AND ASSOCIATED MINERALS 1845-1913)	UNIVERSITY OF EXETER
6	230m S	Chance East, Scorrier, Cornwall	Unknown	CORNWALL MINES DATABASE	UNPUBLISHED PRIVATE DOCUMENT.
10	292m NW	Treskerby North, Scorrier, Cornwall	Unknown	CORNWALL MINES DATABASE	UNPUBLISHED PRIVATE DOCUMENT.



ID	Location	Mine Address	Mineral	Data source	Publisher
R	480m NE	Boscawen, Blackwater, Cornwall	Bornite, Chalcocite, Copper, Malachite, Native Copper, Tetrahedrite	CORNISH MINES (METALLIFEROUS AND ASSOCIATED MINERALS 1845-1913)	UNIVERSITY OF EXETER
18	524m W	Truan(trewan)mine, Scorrier, Cornwall	Unknown	CORNWALL MINES DATABASE	UNPUBLISHED PRIVATE DOCUMENT.
25	620m SE	Black Dog, Redruth, Cornwall	Cassiterite, Tin, Tinstone	Mining in Cornwall & Decon, Mines and Men	University of Exeter Press
-	710m W	Owla, Scorrier, Cornwall	Unknown	CORNWALL MINES DATABASE	UNPUBLISHED PRIVATE DOCUMENT.
34	731m NW	Truan(trewan)east, Scorrier, Cornwall	Unknown	CORNWALL MINES DATABASE	UNPUBLISHED PRIVATE DOCUMENT.
-	732m NW	Scorrier Consols, Blackwater, Cornwall	Cassiterite, Tin, Tinstone	CORNISH MINES (METALLIFEROUS AND ASSOCIATED MINERALS 1845-1913)	UNIVERSITY OF EXETER
36	789m SE	Black Dog, Scorrier, Cornwall	Cassiterite, Tin, Tinstone	CORNISH MINES (METALLIFEROUS AND ASSOCIATED MINERALS 1845-1913)	UNIVERSITY OF EXETER
-	798m W	Hawke, Scorrier, Cornwall	Unknown	CORNWALL MINES DATABASE	UNPUBLISHED PRIVATE DOCUMENT.
37	803m SW	Chance, Scorrier, Cornwall	Unknown	CORNWALL MINES DATABASE	UNPUBLISHED PRIVATE DOCUMENT.
-	840m N	Britain, Blackwater, Cornwall	Cassiterite, Tin, Tinstone	CORNISH MINES (METALLIFEROUS AND ASSOCIATED MINERALS 1845-1913)	UNIVERSITY OF EXETER
-	840m W	Rose, Scorrier, Cornwall	Bornite, Chalcocite, Copper, Malachite, Native Copper, Tetrahedrite	CORNISH MINES (METALLIFEROUS AND ASSOCIATED MINERALS 1845-1913)	UNIVERSITY OF EXETER
-	865m SW	Hawke South, Scorrier, Cornwall	Unknown	CORNWALL MINES DATABASE	UNPUBLISHED PRIVATE DOCUMENT.
-	865m SW	Scorrier Wolfram, Scorrier, Cornwall	Unknown	CORNWALL MINES DATABASE	UNPUBLISHED PRIVATE DOCUMENT.



ID	Location	Mine Address	Mineral	Data source	Publisher
-	869m NW	Briton West, Blackwater, Cornwall	Unknown	CORNWALL MINES DATABASE	UNPUBLISHED PRIVATE DOCUMENT.
42	877m SE	Killefreh, Chacewater, Cornwall	Bornite, Chalcocite, Copper, Malachite, Native Copper, Tetrahedrite	CORNISH MINES (METALLIFEROUS AND ASSOCIATED MINERALS 1845-1913)	UNIVERSITY OF EXETER
-	935m W	Truan(trewan)west, Scorrier, Cornwall	Unknown	CORNWALL MINES DATABASE	UNPUBLISHED PRIVATE DOCUMENT.
-	949m N	Briton, Blackwater, Cornwall	Unknown	CORNWALL MINES DATABASE	UNPUBLISHED PRIVATE DOCUMENT.
-	990m E	Ann, Chacewater, Cornwall	Unknown	CORNWALL MINES DATABASE	UNPUBLISHED PRIVATE DOCUMENT.
-	998m W	Vreah(variah), Scorrier, Cornwall	Unknown	CORNWALL MINES DATABASE	UNPUBLISHED PRIVATE DOCUMENT.

This data is sourced from Stantec UK Ltd.

18.8 JPB mining areas

Records on site

0

Areas which could be affected by former coal and other mining. This data includes some mine plans unavailable to the Coal Authority.

This data is sourced from Johnson Poole and Bloomer.

18.9 Coal mining

Records on site

0

Areas which could be affected by past, current or future coal mining.

This data is sourced from the Coal Authority.



18.10 Brine areas

Records on site

0

The Cheshire Brine Compensation District indicates areas that may be affected by salt and brine extraction in Cheshire and where compensation would be available where damage from this mining has occurred. Damage from salt and brine mining can still occur outside this district, but no compensation will be available.

This data is sourced from the Cheshire Brine Subsidence Compensation Board.

18.11 Gypsum areas

Records on site

0

Generalised areas that may be affected by gypsum extraction.

This data is sourced from British Gypsum.

18.12 Tin mining

Records on site

1

Generalised areas that may be affected by historical tin mining.

Location	Details
On site	The site is within an area where tin mining is reported to have occurred. This does not mean that the site is definitely directly affected but further consideration of tin mining is advised. Further mining searches are available at Groundsure.

This data is sourced from Groundsure.

18.13 Clay mining

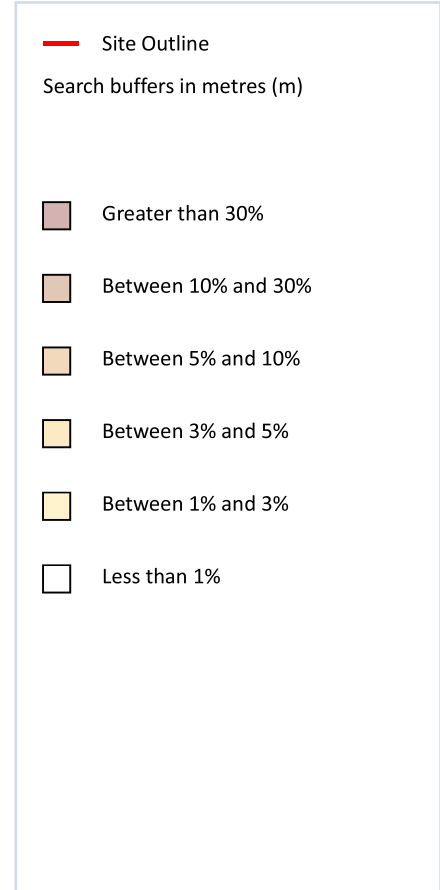
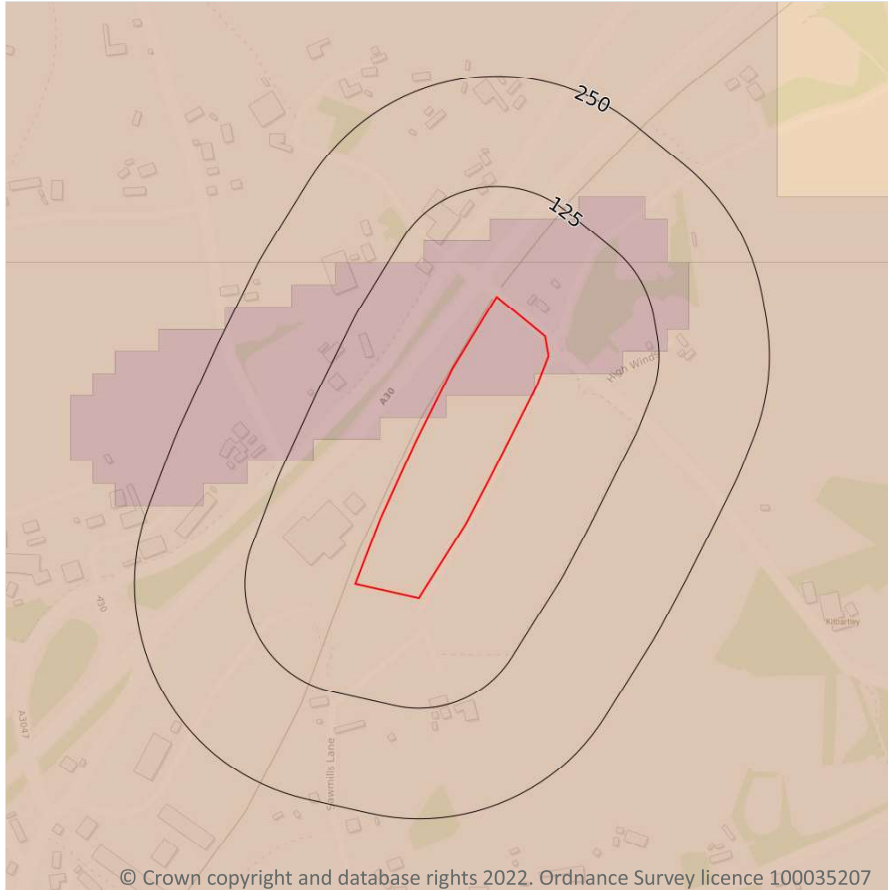
Records on site

0

Generalised areas that may be affected by kaolin and ball clay extraction.

This data is sourced from the Kaolin and Ball Clay Association (UK).

19 Radon



19.1 Radon

Records on site

2

Estimated percentage of dwellings exceeding the Radon Action Level. This data is the highest resolution radon dataset available for the UK and is produced to a 75m level of accuracy to allow for geological data accuracy and a 'residential property' buffer. The findings of this section should supersede any estimations derived from the Indicative Atlas of Radon in Great Britain. The data was derived from both geological assessments and long term measurements of radon in more than 479,000 households.

Features are displayed on the Radon map on **page 149**

Location	Estimated properties affected	Radon Protection Measures required
On site	Greater than 30%	Full
On site	Between 10% and 30%	Full

This data is sourced from the British Geological Survey and Public Health England.



20 Soil chemistry

20.1 BGS Estimated Background Soil Chemistry

Records within 50m

4

The estimated values provide the likely background concentration of the potentially harmful elements Arsenic, Cadmium, Chromium, Lead and Nickel in topsoil. The values are estimated primarily from rural topsoil data collected at a sample density of approximately 1 per 2 km². In areas where rural soil samples are not available, estimation is based on stream sediment data collected from small streams at a sampling density of 1 per 2.5 km²; this is the case for most of Scotland, Wales and southern England. The stream sediment data are converted to soil-equivalent concentrations prior to the estimation.

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	>120 mg/kg	> 18 mg/kg	200 - 300 mg/kg	120 - 240 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	>120 mg/kg	> 18 mg/kg	200 - 300 mg/kg	120 - 240 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
38m N	60 - 120 mg/kg	9 - 18 mg/kg	200 - 300 mg/kg	120 - 240 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
38m N	>120 mg/kg	> 18 mg/kg	200 - 300 mg/kg	120 - 240 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg

This data is sourced from the British Geological Survey.

20.2 BGS Estimated Urban Soil Chemistry

Records within 50m

0

Estimated topsoil chemistry of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc and bioaccessible Arsenic and Lead in 23 urban centres across Great Britain. These estimates are derived from interpolation of the measured urban topsoil data referred to above and provide information across each city between the measured sample locations (4 per km²).

This data is sourced from the British Geological Survey.



20.3 BGS Measured Urban Soil Chemistry

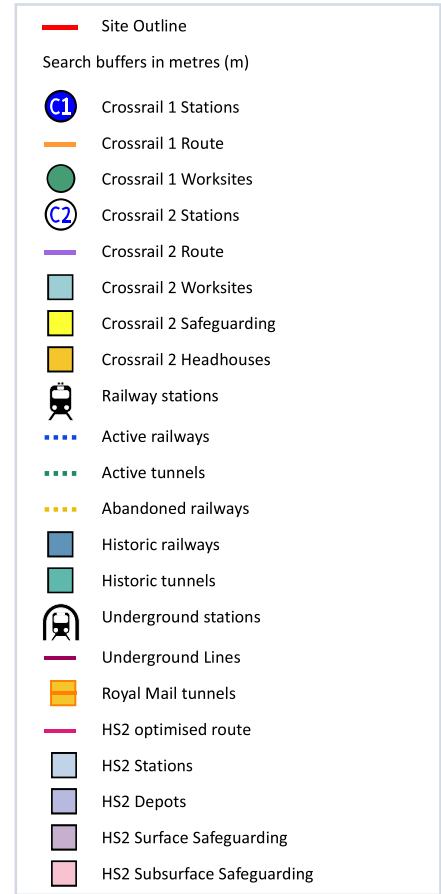
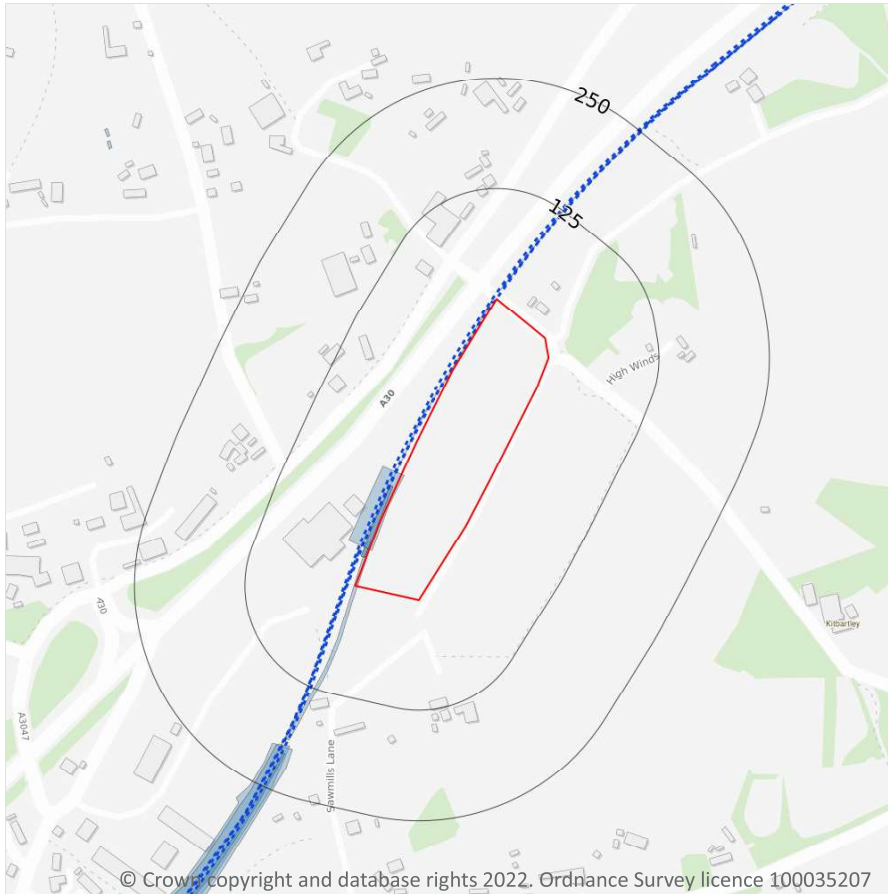
Records within 50m

0

The locations and measured total concentrations (mg/kg) of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc in urban topsoil samples from 23 urban centres across Great Britain. These are collected at a sample density of 4 per km².

This data is sourced from the British Geological Survey.

21 Railway infrastructure and projects



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21.1 Underground railways (London)

Records within 250m

0

Details of all active London Underground lines, including approximate tunnel roof depth and operational hours.

This data is sourced from publicly available information by Groundsure.

21.2 Underground railways (Non-London)

Records within 250m

0

Details of the Merseyrail system, the Tyne and Wear Metro and the Glasgow Subway. Not all parts of all systems are located underground. The data contains location information only and does not include a depth assessment.

This data is sourced from publicly available information by Groundsure.

21.3 Railway tunnels

Records within 250m

0

Railway tunnels taken from contemporary Ordnance Survey mapping.

This data is sourced from the Ordnance Survey.

21.4 Historical railway and tunnel features

Records within 250m

6

Railways and tunnels digitised from historical Ordnance Survey mapping as scales of 1:1,250, 1:2,500, 1:10,000 and 1:10,560.

Features are displayed on the Railway infrastructure and projects map on **page 153**

Location	Land Use	Year of mapping	Mapping scale
On site	Railway Sidings	1880	2500
On site	Railway Sidings	1958	10560
1m W	Railway Sidings	1908	2500
196m S	Railway Sidings	1958	10560
198m S	Railway Sidings	1908	10560
205m SW	Railway Sidings	1908	2500

This data is sourced from Ordnance Survey/Groundsure.

21.5 Royal Mail tunnels

Records within 250m

0

The Post Office Railway, otherwise known as the Mail Rail, is an underground railway running through Central London from Paddington Head District Sorting Office to Whitechapel Eastern Head Sorting Office. The line is 10.5km long. The data includes details of the full extent of the tunnels, the depth of the tunnel, and the depth to track level.

This data is sourced from Groundsure/the Postal Museum.

21.6 Historical railways

Records within 250m

0

Former railway lines, including dismantled lines, abandoned lines, disused lines, historic railways and razed lines.

This data is sourced from OpenStreetMap.

21.7 Railways

Records within 250m

6

Currently existing railway lines, including standard railways, narrow gauge, funicular, trams and light railways. Features are displayed on the Railway infrastructure and projects map on **page 153**

Location	Name	Type
0m NW	The Cornish Main Line	rail
2m NW	Not given	Multi Track
4m NW	The Cornish Main Line	rail
10m W	Not given	Multi Track
12m NE	Not given	Multi Track
150m SW	Not given	Multi Track

This data is sourced from Ordnance Survey and OpenStreetMap.

21.8 Crossrail 1

Records within 500m

0

The Crossrail railway project links 41 stations over 100 kilometres from Reading and Heathrow in the west, through underground sections in central London, to Shenfield and Abbey Wood in the east.

This data is sourced from publicly available information by Groundsure.

21.9 Crossrail 2

Records within 500m

0

Crossrail 2 is a proposed railway linking the national rail networks in Surrey and Hertfordshire via an underground tunnel through London.

This data is sourced from publicly available information by Groundsure.



21.10 HS2

Records within 500m

0

HS2 is a proposed high speed rail network running from London to Manchester and Leeds via Birmingham. Main civils construction on Phase 1 (London to Birmingham) of the project began in 2019, and it is currently anticipated that this phase will be fully operational by 2026. Construction on Phase 2a (Birmingham to Crewe) is anticipated to commence in 2021, with the service fully operational by 2027. Construction on Phase 2b (Crewe to Manchester and Birmingham to Leeds) is scheduled to begin in 2023 and be operational by 2033.

This data is sourced from HS2 Ltd.



Data providers

Groundsure works with respected data providers to bring you the most relevant and accurate information. To find out who they are and their areas of expertise see <https://www.groundsure.com/sources-reference>.

Terms and conditions

Groundsure's Terms and Conditions can be accessed at this link: <https://www.groundsure.com/terms-and-conditions-jan-2020/>.

APPENDIX E
SUPPORTING DESK STUDY INFORMATION



British
Geological
Survey

Version 2.0.6.6

BGS ID: 657286 : BGS Reference: SW74SW61

British National Grid (27700) : 172490,44710

[Report an issue with this borehole](#)

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CORNWALL COUNTY COUNCIL HIGHWAYS DEPARTMENT

SOILS AND MATERIALS LABORATORY

sw/74 SW : 61

352

BOREHOLE LOG

SITE: Blackwater
 CHAINAGE: B11
 DRILLING METHOD: Percussive
 WATER TABLE: Not encountered.

DATE: 6/7/81
 WEATHER: Dry
 SCALE: 1:50
 GROUND LEVEL:

(Some water added)

DESCRIPTION OF STRATA	SAM- PLE	LEG- END	DEPTH m	M/C	L.L.	P.L.	N.	Pb pot kg/m ³
Topsoil Soft brown sandy Topsoil with some angular quartz stones upto cobble size.	1	Δ						2162
CLAY Stiff, creamy white to pale brown, china CLAY, with some china stone and some medium gravel of angular quartz and the occasional cobble. (The clay is a residual soil formed by the weathering of kaolinised slate).	1		0.5	16	27	19		1864
	2		1.0	19		(CL)	32	2261
			2.0				24	1908
	3		2.0	23	39	28		2143
	4		3.0	12		(MI)		1742
End of borehole at 3.2m.							50 per 11"	2356
								2096
			4.0					

m/c ~ moisture content
 LL ~ Liquid limit
 PL ~ Plastic limit
 N ~ SP-7 (Standard penetration test) value
 pb ~ bulk density
 pd ~ dry density
 SCR ~ solid core recovery
 TCR ~ total core recovery
 RQD ~ Rock Quality Designation

Δ DISTURBED SAMPLE
 | UNDISTURBED SAMPLE
 ○ BULK DISTURBED SAMPLE



British
Geological
Survey

Version 2.0.6.6

BGS ID: 657287 : BGS Reference: SW74SW62

British National Grid (27700) : 172630,44820

[Report an issue with this borehole](#)

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Page 1 of 1 ▾

Next >

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CORNWALL COUNTY COUNCIL HIGHWAYS DEPARTMENT

SOILS AND MATERIALS LABORATORY

SW/74 SW 62
352

BOREHOLE LOG

SITE: Blackwater
CHAINAGE: 8H2
DRILLING METHOD: Percussive
WATER TABLE: Not encountered

DATE: 7/7/81
WEATHER: Dry
SCALE: 1:50
GROUND LEVEL:

DESCRIPTION OF STRATA	SAM- PLE	LEG- END	DEPTH m	M/C	L.L.	P.L.	N.	Pb pd kg/m ³
CLAY Soft reddish brown CLAY with some angular medium gravel of quartz and occasional cobble. Slaty structure visible in places ie clay is a residual soil.	2	Δ	0		29	19		
			1.0			(CL)		
SLATE Stiff pale orange CLAY with some slaty cleavage visible. Also some angular medium quartz gravel. Changing to light brown and red kaolinised highly weathered SLATE with depth; large amount of quartz present.	3	Δ	2.0		32	23	18	1948
			3.0	12	(ML)		1754	
			4.0				50 per 10"	
			5.0				50 per initial 5"	
			6.0					

Δ DISTURBED SAMPLE
I UNDISTURBED SAMPLE
O BULK DISTURBED SAMPLE



British
Geological
Survey

Version 2.0.6.6

BGS ID: 657288 : BGS Reference: SW74SW63

British National Grid (27700) : 172760,44990

[Report an issue with this borehole](#)

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< Prev

Page 1 of 2 ▾

Next >

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CORNWALL COUNTY COUNCIL HIGHWAYS DEPARTMENT
SOILS AND MATERIALS LABORATORY

1 of 2.

BOREHOLE LOG

SW/74 SW: 63
352

SITE: Blackwater

DATE: 2/7/81

CHAINAGE: BH3

WEATHER: Dry

DRILLING METHOD: Rig. Percussive + Rotary

SCALE: 1:50

WATER TABLE: Not encountered

GROUND LEVEL:

DESCRIPTION OF STRATA	SAM- PLE	LEG- END	DEPTH m	M/C	L.L.	P.L.	N.	Ob pd kg/m ³
TOPSOIL			0					
CLAY light orange/brown CLAY with medium gravel of angular quartz fragments.	6		16					1645
			18					1406
SLATE completely weathered red kaolinised slate, very soft.	7		26				26	1696
			20	11				1523
SANDSTONE Highly/completely weathered very soft light yellow brown medium grain sandstone.	8		30	9.9			38	2043
			30	9.4				1862
Rotary drilling started at 3.0 m (cont. on sheet 2.)								
			40					

△ DISTURBED SAMPLE
I UNDISTURBED SAMPLE
O BULK DISTURBED SAMPLE



APPENDIX F
UTILITY SERVICE PLANS

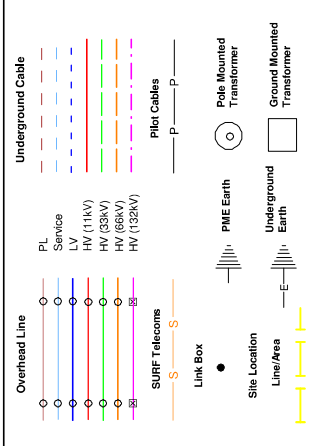
Contact Us

Mapping Enquiries: 0121 623 9780 All areas 0800 096 3080
 General Enquiries: 0800 096 3080
 Report damage immediately – **KEEP EVERYONE AWAY FROM THE AREA**
 0800 6783 105

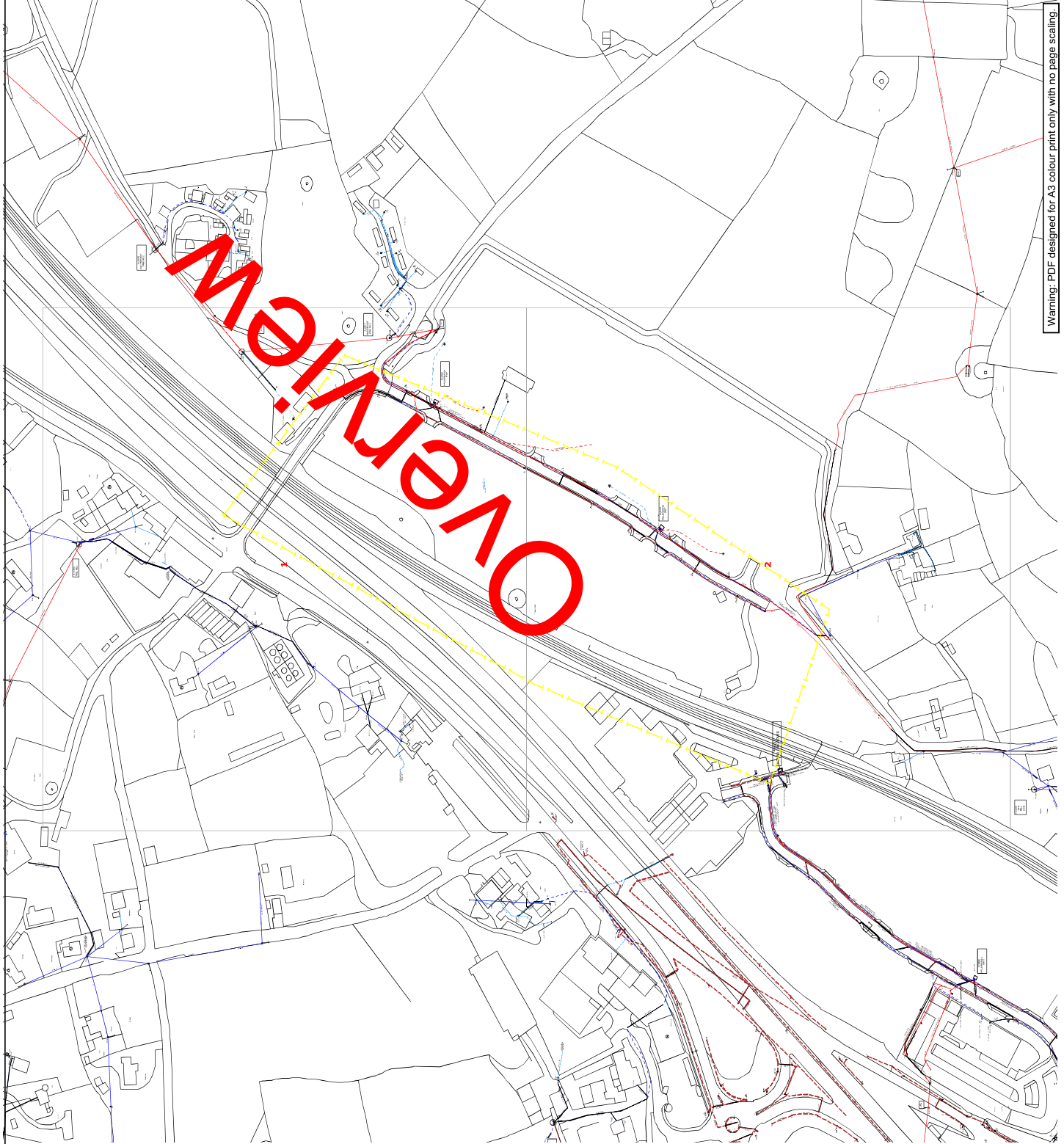
Date Requested: 03/05/2022
 Job Reference: 25510783
 Site Location: 172692.44782
 Requested by: Miss Monique Elsom
 Your Scheme/Reference: 315111

IMPORTANT NOTICES

- This information is given as a guide only and its accuracy cannot be guaranteed. Services or recent additions to the network may not be shown.
- Cables, overhead lines & substations owned by other electricity network owners or private companies may be present and may not be shown.
- You should always verify exact locations of cables using a cable locator and by careful use of hand tools in accordance with HSE guidance note HSG47.
- When working within 10m of any overhead electric line you should follow the requirements of HSE Guidance Note G56.
- For further advice on working near our electricity cables or lines, call our Contact Centre on 0800 096 3080.
- Advice should be sought from the Western Power Distribution Contact Centre for any work that is to take place in proximity to 66kV or 132kV underground cables and 66kV 132kV overhead lines – 0800 096 3080



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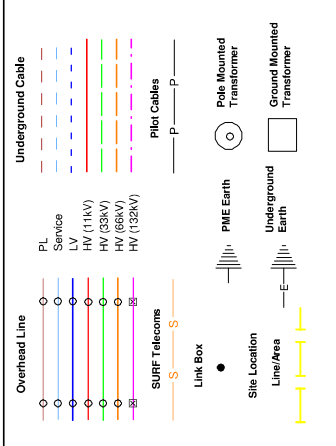
Contact Us

Mapping Enquiries: 0121 623 9780 All areas 0800 096 3080
General Enquiries: 0800 096 3080
Report damage immediately – KEEP EVERYONE AWAY FROM THE AREA
0800 6783 105

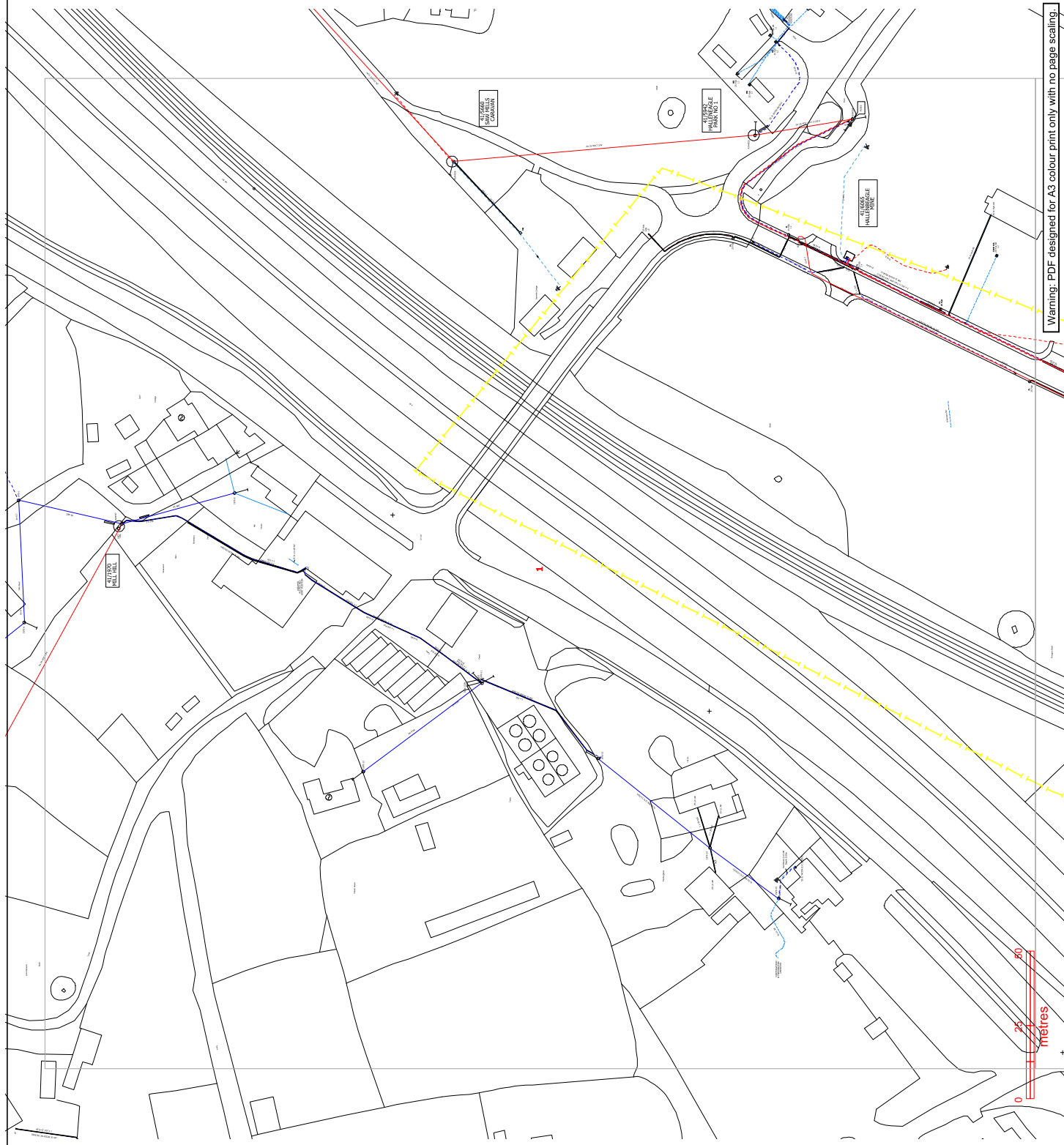
Date Requested: 03/05/2022
 Job Reference: 25510783
 Site Location: 172692.44782
 Requested by: Miss Monique Elsom
 Your Scheme/Reference: 315111
 Exact Scales:
 1:1250 Area or Circle dig site
 1:500 Line dig site

IMPORTANT NOTICES

- This information is given as a guide only and its accuracy cannot be guaranteed. Services or recent additions to the network may not be shown.
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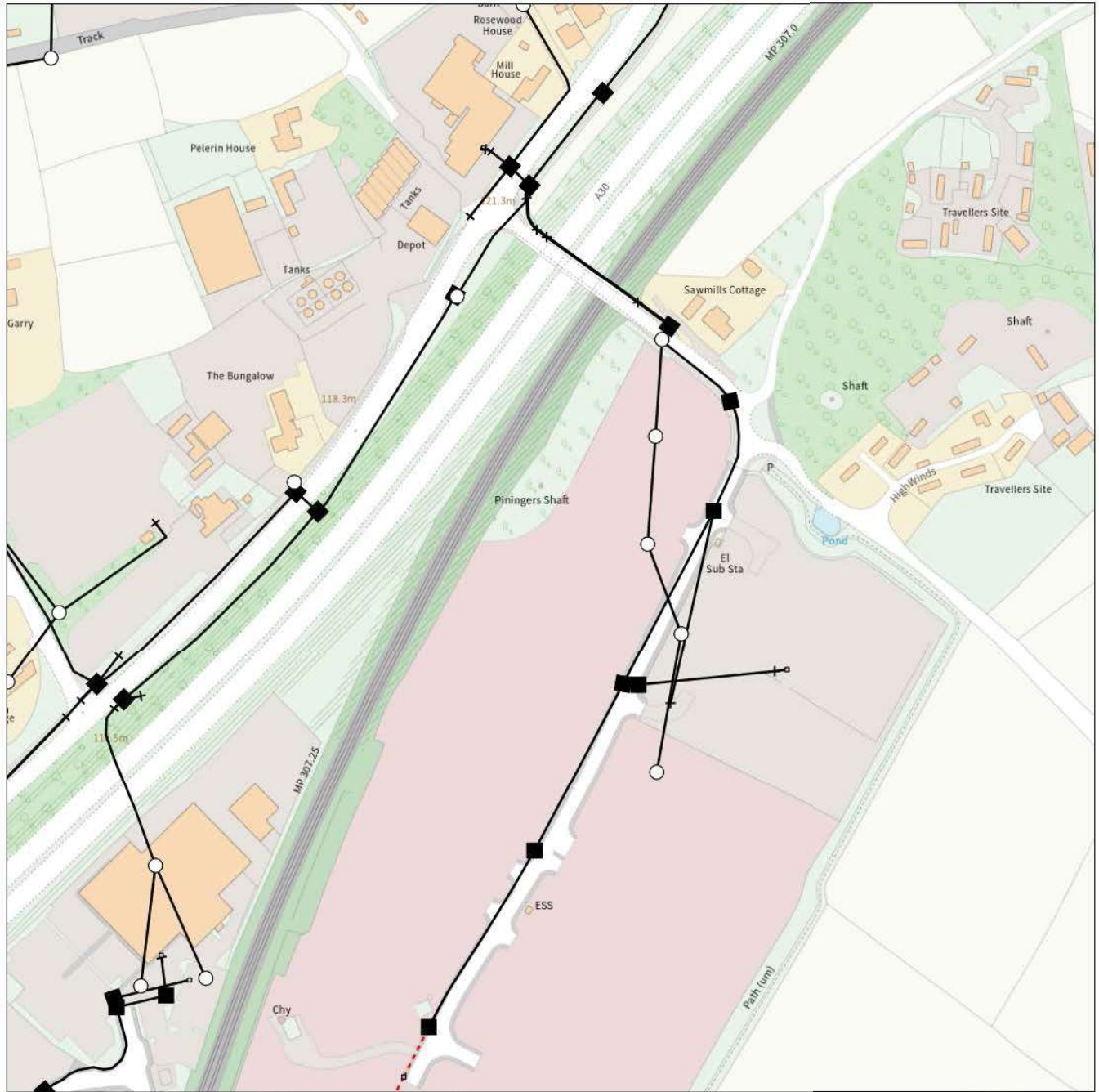


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Maps by email Plant Information Reply



IMPORTANT WARNING

Information regarding the location of BT apparatus is given for your assistance and is intended for general guidance only. No guarantee is given of its accuracy. It should not be relied upon in the event of excavations or other works being made near to BT apparatus which may exist at various depths and may deviate from the marked route.



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Accidents happen

If you do damage any Openreach equipment please let us know by calling 0800 023 2023 (opt 1 + opt 1) and we can get it fixed ASAP

KEY TO BT SYMBOLS

	Planned	Live	Change Of State	+	Hatchings
PCP			Split Coupling		Built
Pole			Duct Tee		Planned
Box			Building		Inferred
Manhole			Kiosk		Duct
Cabinet			Other proposed plant is shown using dashed lines. BT Symbols not listed above may be disregarded. Existing BT Plant may not be recorded. Information valid at time of preparation. Maps are only valid for 90 days after the date of publication.		
	Pending Add	In Place	Pending Remove	Not In Use	
Power Cable					
Power Duct				N/A	

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BT Ref : QNW04431
Map Reference : (centre) SW7273144848
Easting/Northing : (centre) 172731, 44848
Issued : 03/05/2022 16:44:05

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