

Artificial Ground and Landslip

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	MGR	Made Ground (Undivided)	Artificial Deposit	Holocene - Holocene
	WGR	Worked Ground (Undivided)	Void	Holocene - Holocene

Superficial Geology

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	ALV	Alluvium	Clay, Silt, Sand and Gravel	Flandrian - Flandrian
	TILLD	Till, Devensian	Diamicton	Devensian - Devensian
	GFDUD	Glaciofluvial Deposits, Devensian	Sand and Gravel	Devensian - Devensian
	GLLD	Glaciocustrine Deposits	Clay and Silt	Pleistocene - Pleistocene
	HEAD	Head	Clay, Silt, Sand and Gravel	Quaternary - Quaternary
	RTD1	River Terrace Deposits, 1	Sand and Gravel	Quaternary - Quaternary

Bedrock and Faults

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	MMG	Mercia Mudstone Group	Mudstone	Rhaetian - Scythian
	MMMF	Mercia Mudstone Group (Marginal Facies)	Conglomerate	Triassic - Triassic
	BD	Brithdir Member	Sandstone	Westphalian D - Westphalian D
	SWUCM	South Wales Upper Coal Measures Formation	Mudstone, Siltstone and Sandstone	Westphalian D - Westphalian C
	RA	Rhonda Member	Sandstone	Westphalian D - Westphalian C
	RA	Rhonda Member	Mudstone, Siltstone and Sandstone	Westphalian D - Westphalian C
	SWMCM	South Wales Middle Coal Measures Formation	Mudstone, Siltstone and Sandstone	Boisovian (Westphalian C) - Boisovian (Westphalian B)
	SWLCM	South Wales Lower Coal Measures Formation	Mudstone, Siltstone and Sandstone	Langsettian (Westphalian A) - Langsettian

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	MARR	Marros Group	Mudstone, Siltstone and Sandstone	Namurian - Namurian
	OHL	Oxwich Head Limestone Formation	Limestone	Brigantian - Asbian
	ARL	Argoed Limestone Member	Limestone	Holkerian - Holkerian
	STYL	Stormy Limestone Formation	Limestone	Asbian - Holkerian
	CBM	Caswell Bay Mudstone Formation	INTERBEDDED LIMESTONE AND MUDSTONE	Arundian - Arundian
	HTL	High Tor Limestone Formation	Limestone	Arundian - Arundian
	HTL	High Tor Limestone Formation	Limestone	Arundian - Arundian
	CEO	Cefnyrhendy Oolite Member	Ooidol Limestone	Arundian - Arundian
	HBO	Hunts Bay Oolite Subgroup	Ooidol Limestone	Holkerian - Arundian
	CNLL	Cornelly Oolite Formation	Ooidol Limestone	Holkerian - Arundian
	GUO	Gully Oolite Formation	Ooidol Limestone	Chadian - Chadian
	BHL	Barry Harbour Limestone Formation	Limestone	Courceyan - Courceyan
	CCM	Cwmyniscy Mudstone Formation	Mudstone and Limestone, Interbedded	Courceyan - Courceyan
	BFO	Brofiscin Oolite Formation	Ooidol Limestone	Courceyan - Courceyan
	FPL	Friars Point Limestone Formation	Limestone	Chadian - Courceyan
	FPL	Friars Point Limestone Formation	Dolomitic Limestone and Dolomite	Chadian - Courceyan
	CCL	Castell Coch Limestone Formation	Ooidol Limestone	Courceyan - Courceyan
	TGW	Tongwynlais Formation	INTERBEDDED LIMESTONE AND MUDSTONE	Courceyan - Courceyan
	QCG	Quartz Conglomerate Group (South Wales)	Interbedded Sandstone and Conglomerate	Famennian - Famennian
	CWA	Cwrt-Yr-Ala Formation	Sandstone and Siltstone,	Late Devonian - Late Devonian

Geology 1:50,000 Maps

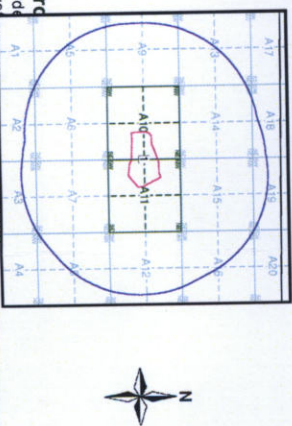
This report contains geological map extracts taken from the BGS Digital Geological map of Great Britain at 1:50,000 scale and is designed for users carrying out preliminary site assessments who require geological maps for the area around the site. This mapping may be more up to date than previously published paper maps.

The various geological layers - artificial and landslip deposits, superficial geology and solid (bedrock) geology are displayed in separate maps, but superimposed on the final 'Combined Surface Geology' map. All map legends feature on this page. Not all layers have complete nationwide coverage, so availability of data for relevant map sheets is indicated below.

Geology 1:50,000 Maps Coverage

Map ID: 1
Map Sheet No: 202
Map Name: 1
Map Scale: 1:50,000
Bedrock Geology: Available
Superficial Geology: Available
Artificial Geology: Available
Landslip: Available
Rock Segments: Available

Geology 1:50,000 Maps - Slice A



National Grid Reference: 305390, 181000
Site Area (Ha): 11.05
Search Buffer (m): 1000

Site Details:

Tarmac Western Ltd, Hendy Quarry, School Road, Miskin, Miskin Heights, PONTYCLUN, Mid Glamorgan, CF72 8PG

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
			Interbedded	
	BRS	Brownstones Formation	Interbedded Sandstone And [Subequal/Subordinate] Argillaceous Rocks	Emsian - Lochkovian
	LLC	Llanishen Conglomerate	Conglomerate and [Subequal/Subordinate] Sandstone, Interbedded	Early Devonian - Early Devonian
		Faults		
		Rock Segments		

Order Details:

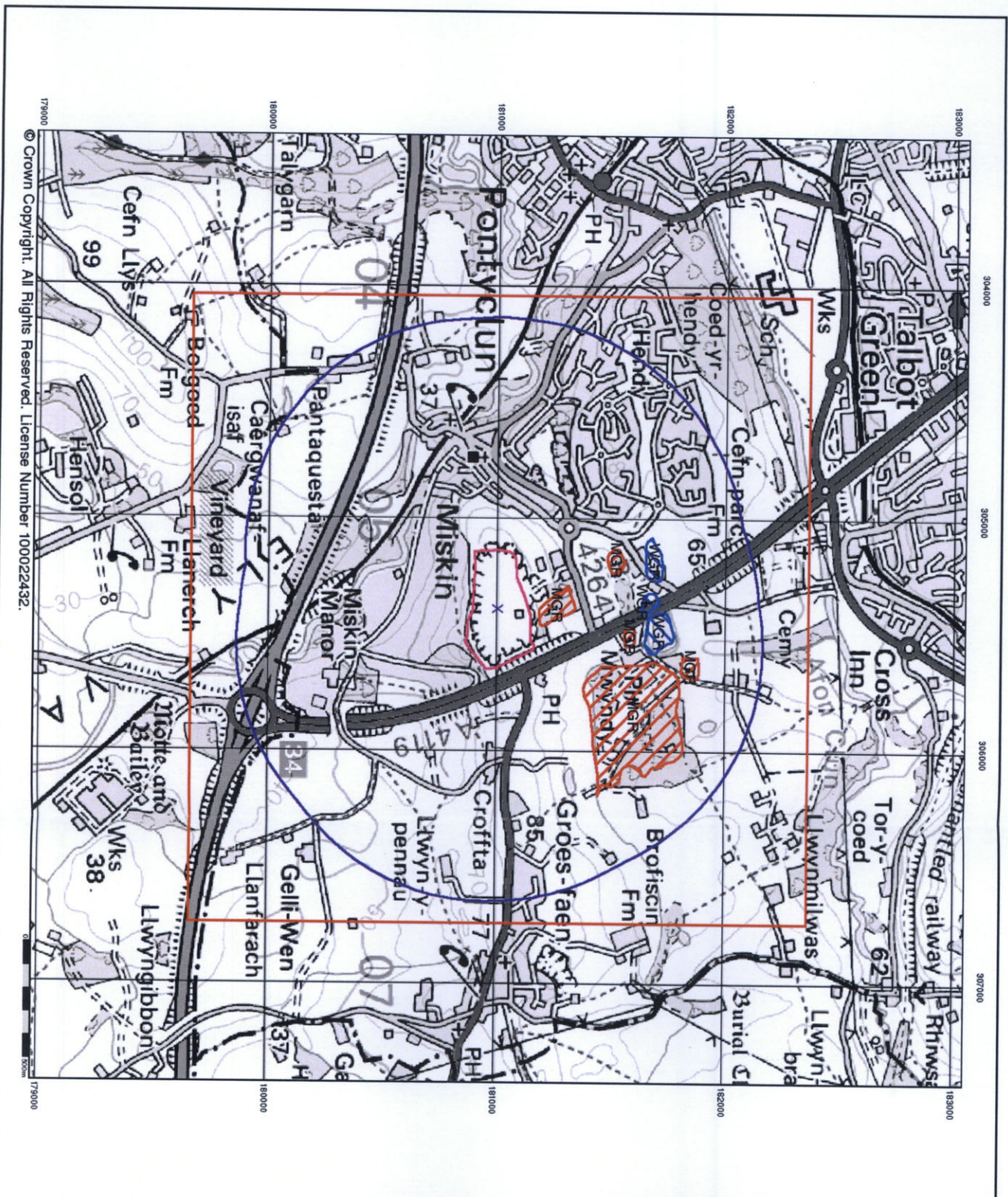
Order Number: 39299510_1_1
Customer Reference: HND488
National Grid Reference: 305390, 181000
Site: A
Site Area (Ha): 11.05
Search Buffer (m): 1000

Site Details:

Tarmac Western Ltd, Hendy Quarry, School Road, Miskin, Miskin Heights, PONTYCLUN, Mid Glamorgan, CF72 8PG



Tel: 0844 844 8952
Fax: 0844 844 8951
Web: www.envirocheck.co.uk



© Crown Copyright. All Rights Reserved. License Number 100022432.



Artificial Ground and Landslip

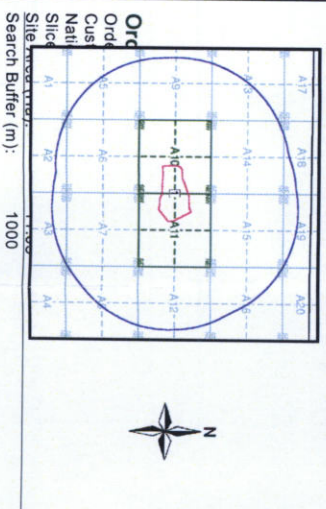
Artificial ground is a term used by BGS for those areas where the ground surface has been significantly modified by human activity. Information about previously developed ground is especially important, as it is often associated with potentially contaminated material, unpredictable engineering conditions and unstable ground.

Artificial ground includes:

- Made ground - man-made deposits such as embankments and spoil heaps on the natural ground surface.
- Worked ground - areas where the ground has been cut away such as quarries and road cuttings.
- In-filled ground - areas where the ground has been cut away then wholly or partially backfilled.
- Landscaped ground - areas where the surface has been reshaped.
- Disturbed ground - areas of ill-defined shallow or near surface mineral workings where it is impracticable to map made and worked ground separately.

Mass movement (landslip) deposits on BGS geological maps are primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground. The dataset also includes faulted strata, where the ground has collapsed due to subsidence.

Artificial Ground and Landslip Map - Slice A



Search Buffer (m): 1000

Site Details:
Tarmac Western Ltd, Hendy Quarry, School Road, Miskin,
Miskin Heights, PONTYCLUN, Mid Glamorgan, CF72 8PG

Landmark
T: 0844 844 9952
F: 0844 844 9951
W: www.envirocheck.co.uk

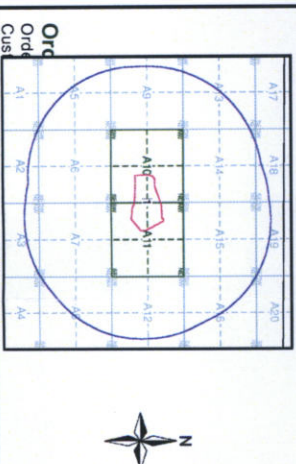
Superficial Geology

Superficial Deposits are the youngest geological deposits formed during the most recent period of geological time, the Quaternary, which extends back about 1.8 million years from the present.

They rest on older deposits or rocks referred to as Bedrock. This dataset contains Superficial deposits that are of natural origin and 'in place'. Other Superficial strata may be held in the Mass Movement dataset where they have been moved, or in the Artificial Ground dataset where they are of man-made origin.

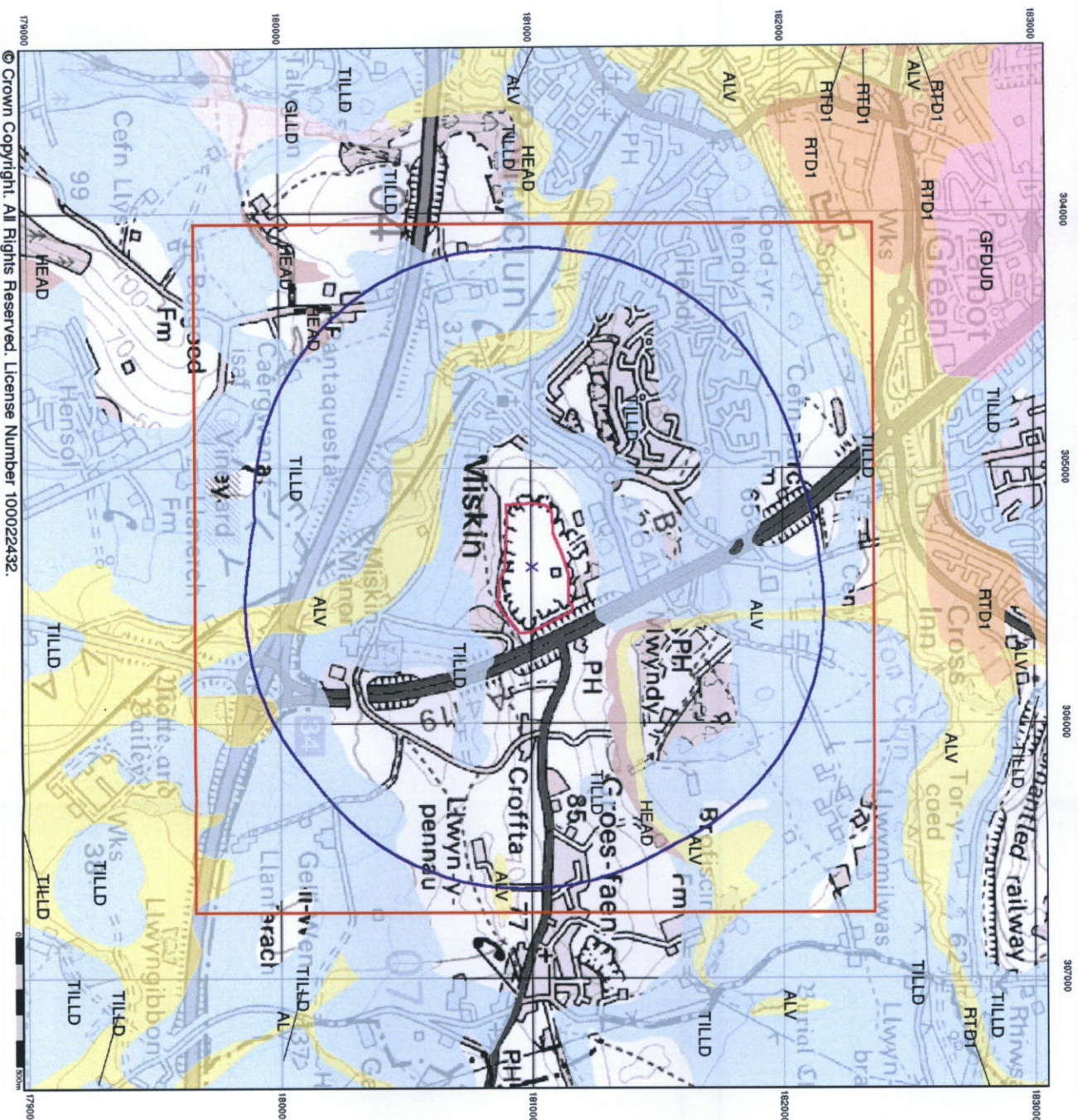
Most of these Superficial deposits are unconsolidated sediments such as gravel, sand, silt and clay, and onshore they form relatively thin, often discontinuous patches or larger spreads.

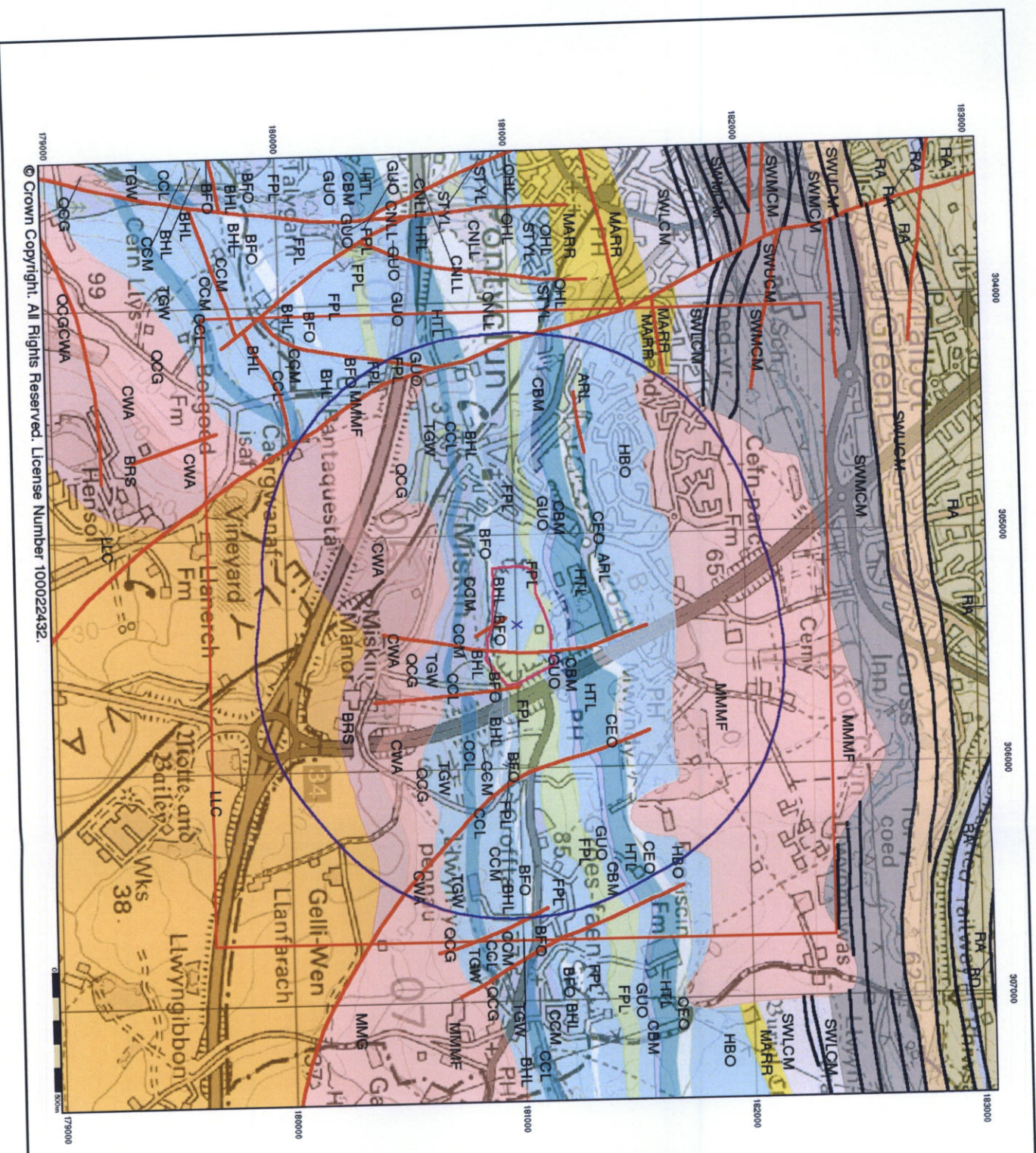
Superficial Geology Map - Slice A



Ord. Cus. National Grid Reference: 305390, 181000
Slice: A
Site Area (Ha): 11.05
Search Buffer (m): 1000
Site Details:
Tarmac Western Ltd, Hendy Quarry, School Road, Miskin,
Miskin Heights, PONTYCLUN, Mid Glamorgan, CF72 8PG

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





© Crown Copyright. All Rights Reserved. License Number 100022432.



Bedrock and Faults

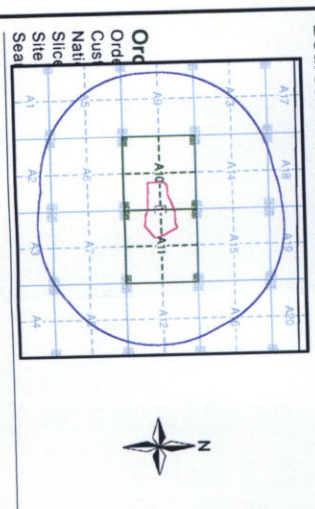
Bedrock geology is a term used for the main mass of rocks forming the Earth and are present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

The bedrock has formed over vast lengths of geological time ranging from ancient and highly altered rocks of the Proterozoic, some 2500 million years ago, or older, up to the relatively young Pliocene, 1.8 million years ago.

The bedrock geology includes many lithologies, often classified into three types based on origin: igneous, metamorphic and sedimentary.

The BGS Faults and Rock Segments dataset includes geological faults (e.g. normal, thrust), and thin beds mapped as lines (e.g. coal seam, gypsum bed). Some of these are linked to other particular 1:50,000 Geology datasets, for example, coal seams are part of the bedrock sequence, most faults and mineral veins primarily affect the bedrock but cut across the strata and post date its deposition.

Bedrock and Faults Map - Slice A



Site Details:

Tarmac Western Ltd, Hendy Quarry, School Road, Miskin, Miskin Heights, PONTYCLUN, Mid Glamorgan, CF72 8PG

Landmark
Information Group
Tel: 0344 844 8052
Fax: 0344 844 8053
Web: www.envirocheck.co.uk

Combined Surface Geology

The Combined Surface Geology map combines all the previous maps into one combined geological overview of your site.

Please consult the legends to the previous maps to interpret the Combined "Surface Geology" map.

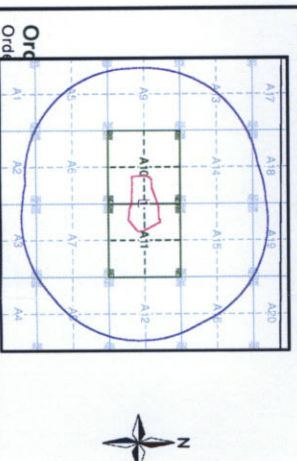
Additional Information

More information on 1:50,000 Geological mapping and explanations of rock classifications can be found on the BGS website. Using the LEX Codes in this report, further descriptions of rock types can be obtained by interrogating the BGS Lexicon of Named Rock Units. This database can be accessed by following the "Information and Data" link on the BGS website.

Contact

British Geological Survey
Kingsley Dunham Centre
Keyworth
Nottingham
NG12 5GG
Telephone: 0115 936 3143
Fax: 0115 936 3276
email: enquiries@bgs.ac.uk
website: www.bgs.ac.uk

Combined Geology Map - Slice A



Ord: HNC4788

Customer Reference: 305390, 181000

National Grid Reference: 305390, 181000

Slice: A

Site Area (Ha): 11.05

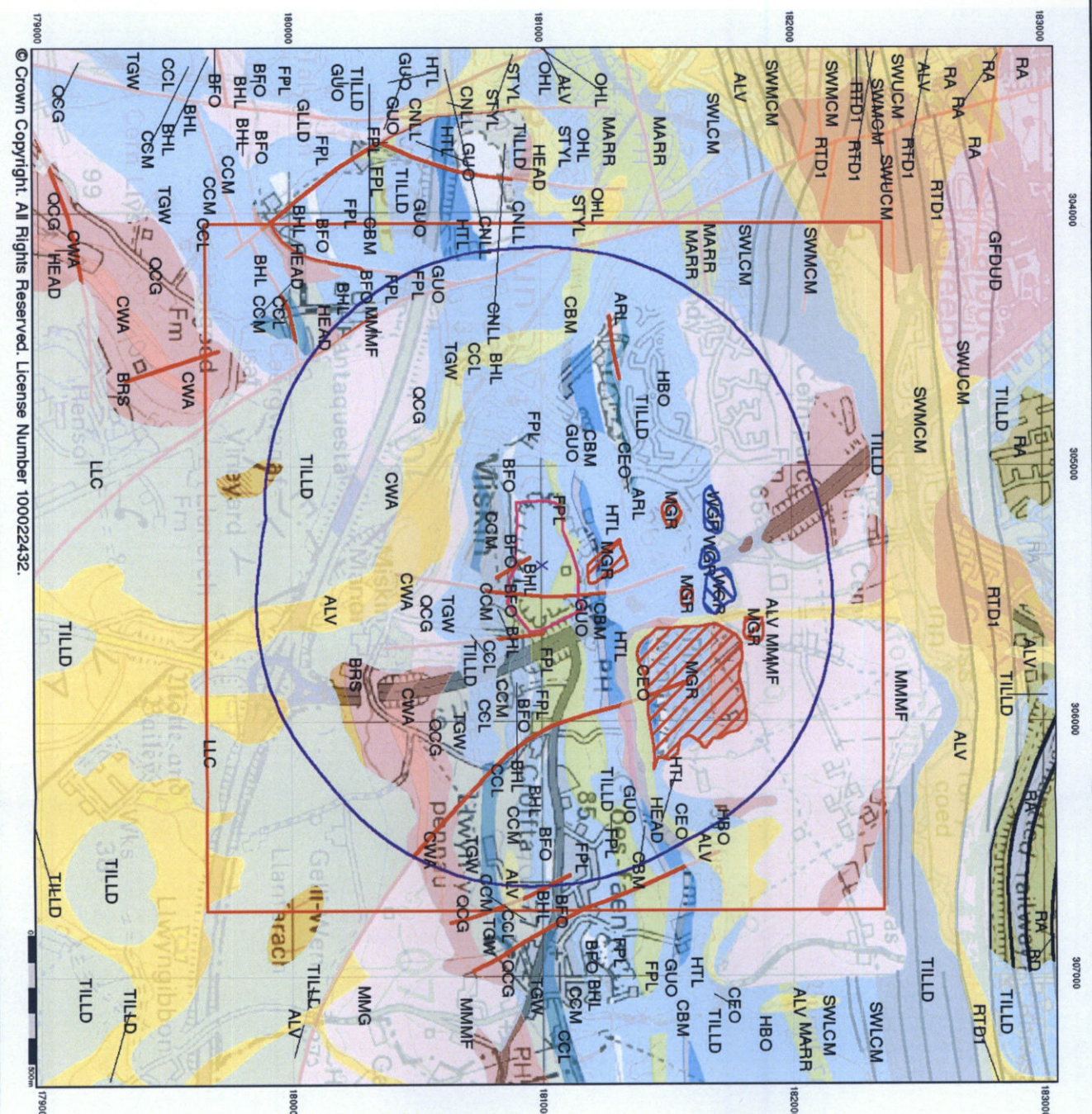
Search Buffer (m): 1000

Site Details:

Tarmac Western Ltd, Hendy Quarry, School Road, Miskin,
Miskin Heights, PONTYCLUN, Mid Glamorgan, CF72 8PG

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

V15.0 26-May-2012



© Crown Copyright. All Rights Reserved. License Number 100022432.