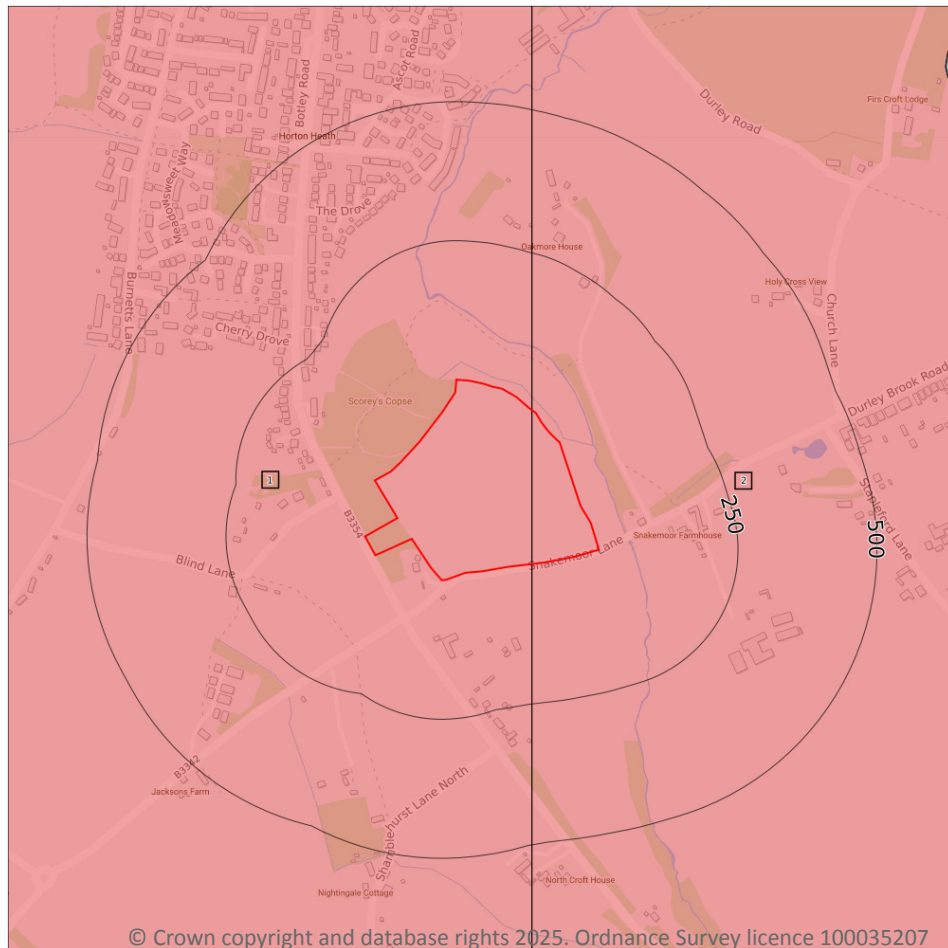


Bedrock aquifer



- Site Outline
- Search buffers in metres (m)
- Principal
 - Secondary A
 - Secondary B
 - Secondary Undifferentiated
 - Unproductive

5.2 Bedrock aquifer

Records within 500m

2

Aquifer status of groundwater held within bedrock geology.

Features are displayed on the Bedrock aquifer map on [page 38](#) >

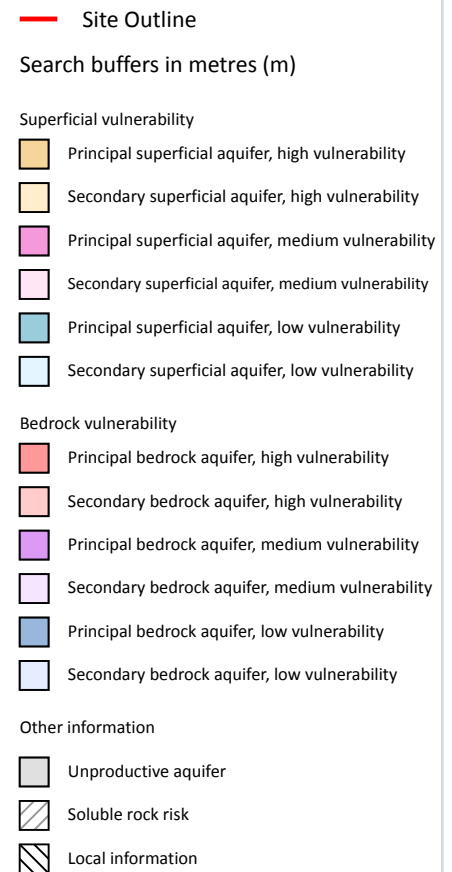
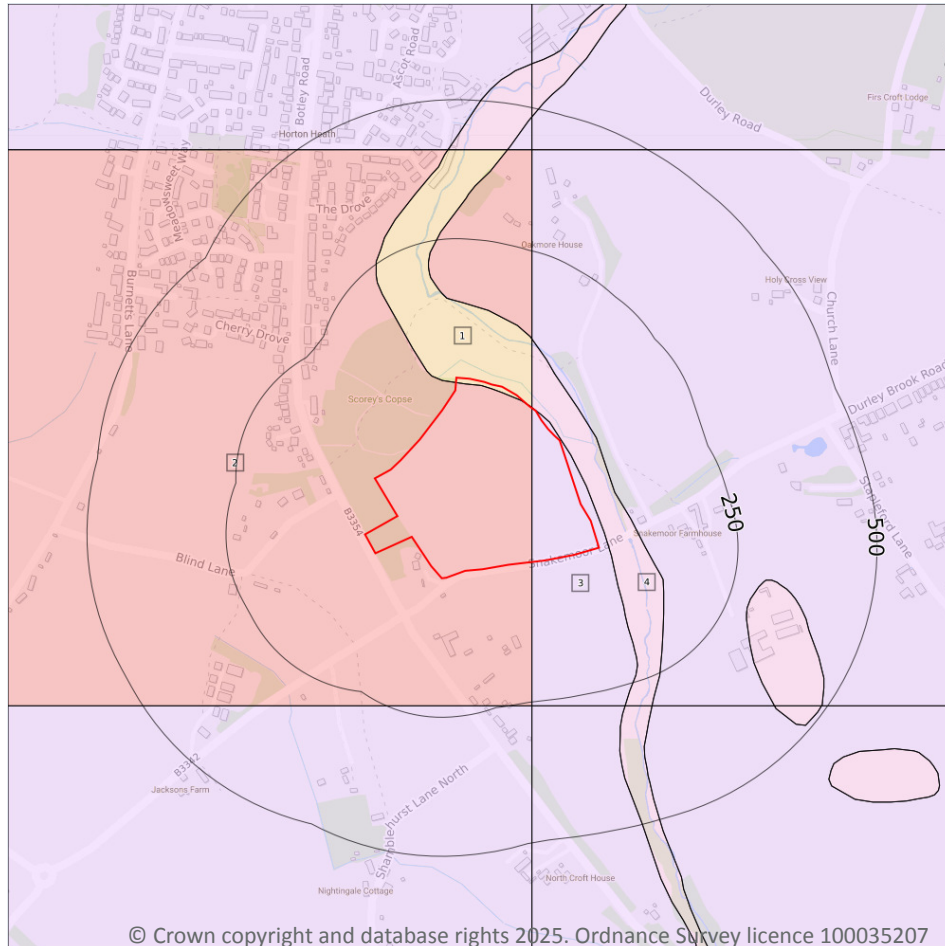
ID	Location	Designation	Description
1	On site	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
2	On site	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers



This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.



Groundwater vulnerability



5.3 Groundwater vulnerability

Records within 50m

4

An assessment of the vulnerability of groundwater to a pollutant discharged at ground level based on the hydrological, geological, hydrogeological and soil properties within a one kilometre square grid. Groundwater vulnerability is described as High, Medium or Low as follows:

- High - Areas able to easily transmit pollution to groundwater. They are likely to be characterised by high leaching soils and the absence of low permeability superficial deposits.
- Medium - Intermediate between high and low vulnerability.
- Low - Areas that provide the greatest protection from pollution. They are likely to be characterised by low leaching soils and/or the presence of superficial deposits characterised by a low permeability.

Features are displayed on the Groundwater vulnerability map on [page 40](#) >



ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: 40- 70% Dilution value: 300- 550mm/year	Vulnerability: High Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Secondary Flow mechanism: Intergranular
2	On site	Summary Classification: Secondary bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: High Infiltration value: 40- 70% Dilution value: 300- 550mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Secondary Flow mechanism: Intergranular
3	On site	Summary Classification: Secondary bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Low Infiltration value: 40- 70% Dilution value: 300- 550mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Mixed
4	1m NE	Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: 40- 70% Dilution value: 300- 550mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Mixed

This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.

5.4 Groundwater vulnerability- soluble rock risk

Records on site

0

This dataset identifies areas where solution features that enable rapid movement of a pollutant may be present within a 1km grid square.

This data is sourced from the British Geological Survey and the Environment Agency.

5.5 Groundwater vulnerability- local information

Records on site

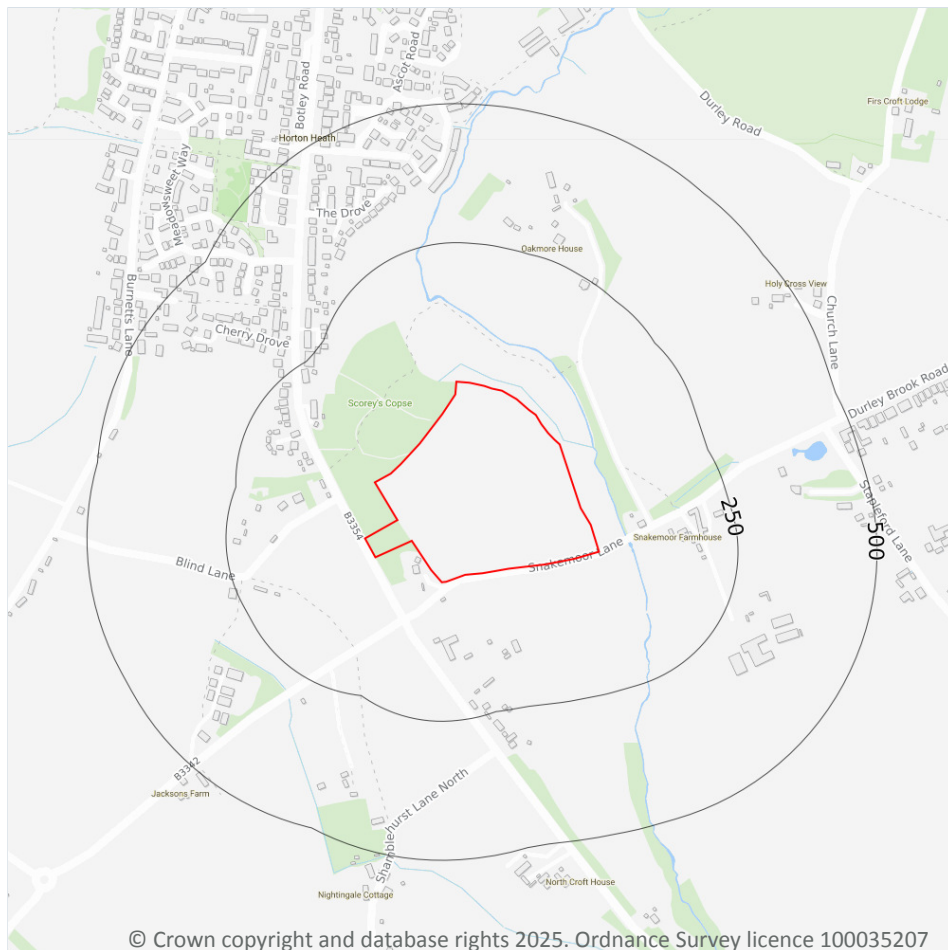
0

This dataset identifies areas where additional local information affecting vulnerability is held by the Environment Agency. Further information can be obtained by contacting the Environment Agency local Area groundwater team through the Environment Agency National Customer Call Centre on 03798 506 506 or by email on enquiries@environment-agency.gov.uk ↗.

This data is sourced from the British Geological Survey and the Environment Agency.



Abstractions and Source Protection Zones



- Site Outline
- Search buffers in metres (m)**
- Source Protection Zone 1
Inner catchment
- Source Protection Zone 2
Outer catchment
- Source Protection Zone 3
Total catchment
- Source Protection Zone 4
Zone of Special Interest
- Source Protection Zone 1c
Inner catchment - confined aquifer
- Source Protection Zone 2c
Outer catchment - confined aquifer
- Source Protection Zone 3c
Total catchment - confined aquifer
- Drinking water abstraction licences
Polygon features
- Drinking water abstraction licences
Linear features
- Groundwater abstraction licence (point)
- Groundwater abstraction licence (area)
- Groundwater abstraction licence (linear)
- Surface Water Abstractions (point)
- Surface Water Abstractions (area)
- Surface Water Abstractions (linear)

5.6 Groundwater abstractions

Records within 2000m

0

Licensed groundwater abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, between two points (line data) or a larger area.

This data is sourced from the Environment Agency and Natural Resources Wales.

5.7 Surface water abstractions

Records within 2000m

8

Licensed surface water abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, a stretch of watercourse or a larger area.

Features are displayed on the Abstractions and Source Protection Zones map on [page 42 >](#)

ID	Location	Details	
-	1614m SE	Status: Historical Licence No: 11/42/25.1/65CA Details: Spray Irrigation - Direct Direct Source: Southern Region Surface Waters Point: BOTLEY HOTEL & COUNTRY CLUB AT MADDOXFORD (POINT A) Data Type: Point Name: Macdonald Hotels Ltd Easting: 450800 Northing: 114820	Annual Volume (m ³): 8500 Max Daily Volume (m ³): 85 Original Application No: - Original Start Date: 31/10/1989 Expiry Date: - Issue No: 101 Version Start Date: 01/04/2016 Version End Date: -
-	1659m SE	Status: Historical Licence No: 11/42/25.1/65CA Details: Spray Irrigation - Direct Direct Source: Southern Region Surface Waters Point: BOTLEY HOTEL & COUNTRY CLUB AT MADDOXFORD (POINT B) Data Type: Point Name: Macdonald Hotels Ltd Easting: 451120 Northing: 114960	Annual Volume (m ³): 8500 Max Daily Volume (m ³): 85 Original Application No: - Original Start Date: 31/10/1989 Expiry Date: - Issue No: 101 Version Start Date: 01/04/2016 Version End Date: -
-	1749m NE	Status: Historical Licence No: 31/088CA Details: Spray Irrigation - Direct Direct Source: Southern Region Surface Waters Point: EAST HORTON FARM, FAIR OAK Data Type: Point Name: East Horton Golf Centre Ltd Easting: 450800 Northing: 118100	Annual Volume (m ³): 9000 Max Daily Volume (m ³): 88 Original Application No: - Original Start Date: - Expiry Date: - Issue No: 101 Version Start Date: 06/09/1999 Version End Date: -
-	1749m NE	Status: Historical Licence No: 30/054 Details: Spray Irrigation - Direct Direct Source: Southern Region Surface Waters Point: EAST HORTON FARM, FAIR OAK Data Type: Point Name: East Horton Golf Centre Ltd Easting: 450800 Northing: 118100	Annual Volume (m ³): 9000 Max Daily Volume (m ³): 88 Original Application No: - Original Start Date: - Expiry Date: - Issue No: 1 Version Start Date: 12/06/2009 Version End Date: -



ID	Location	Details	
-	1766m NE	Status: Active Licence No: 30/054 Details: Spray Irrigation - Direct Direct Source: Southern Region Surface Waters Point: EAST HORTON FARM, FAIR OAK Data Type: Point Name: East Horton Golf Centre Ltd Easting: 450949 Northing: 118030	Annual Volume (m ³): 9000 Max Daily Volume (m ³): 37.03 Original Application No: NPS/WR/015184 Original Start Date: 02/11/1992 Expiry Date: - Issue No: 2 Version Start Date: 19/12/2014 Version End Date: -
-	1788m NE	Status: Active Licence No: 30/050/R01 Details: Spray Irrigation - Storage Direct Source: Southern Region Surface Waters Point: POINT A AT EAST HORTON FARM Data Type: Point Name: East Horton Golf Centre Ltd Easting: 450803 Northing: 118143	Annual Volume (m ³): 8182 Max Daily Volume (m ³): 126 Original Application No: NPS/WR/012658 Original Start Date: 16/03/2014 Expiry Date: 31/03/2028 Issue No: 1 Version Start Date: 01/04/2021 Version End Date: -
-	1793m NE	Status: Historical Licence No: 30/050 Details: Spray Irrigation - Storage Direct Source: Southern Region Surface Waters Point: POINT A AT EAST HORTON FARM Data Type: Point Name: East Horton Golf Centre Ltd Easting: 450800 Northing: 118150	Annual Volume (m ³): 9091 Max Daily Volume (m ³): 126 Original Application No: - Original Start Date: - Expiry Date: 15/03/2014 Issue No: 101 Version Start Date: 12/06/2009 Version End Date: -
-	1997m NW	Status: Historical Licence No: 11/42/22.10/120 Details: Spray Irrigation - Direct Direct Source: Southern Region Surface Waters Point: TRIBUTARY OF RIVER ITCHEN AT ALLINGTON MANOR FARM, FAIR OAK Data Type: Line Name: Arturi Easting: 447870 Northing: 117610	Annual Volume (m ³): 2275 Max Daily Volume (m ³): 100 Original Application No: - Original Start Date: 23/12/1965 Expiry Date: - Issue No: 101 Version Start Date: 23/10/2018 Version End Date: -

This data is sourced from the Environment Agency and Natural Resources Wales.

5.8 Potable abstractions

Records within 2000m

0

Licensed potable water abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, a stretch of watercourse or a larger area.



This data is sourced from the Environment Agency and Natural Resources Wales.

5.9 Source Protection Zones

Records within 500m

0

Source Protection Zones define the sensitivity of an area around a potable abstraction site to contamination.

This data is sourced from the Environment Agency and Natural Resources Wales.

5.10 Source Protection Zones (confined aquifer)

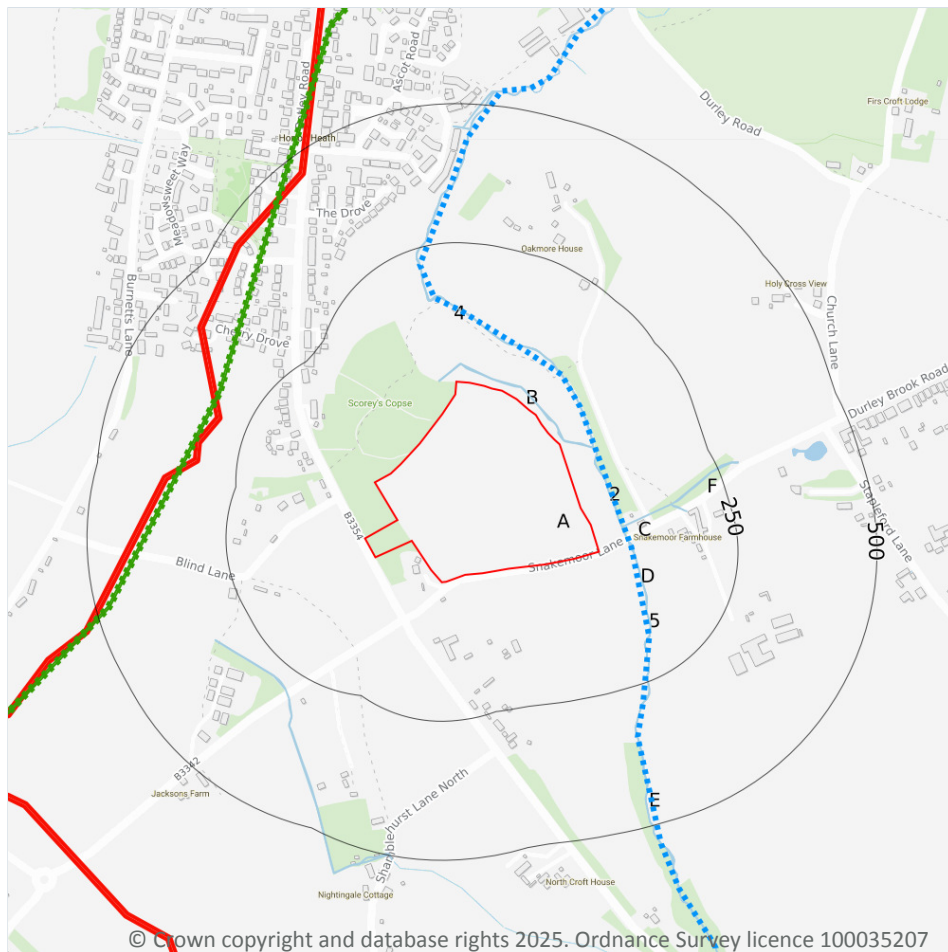
Records within 500m

0

Source Protection Zones in the confined aquifer define the sensitivity around a deep groundwater abstraction to contamination. A confined aquifer would normally be protected from contamination by overlying geology and is only considered a sensitive resource if deep excavation/drilling is taking place.

This data is sourced from the Environment Agency and Natural Resources Wales.

6 Hydrology



- Site Outline
- Search buffers in metres (m)
- Water Network (OS MasterMap)
- Surface water features (wider than 5m)
- Surface water features (narrower than 5m)
- ⋯ WFD River, canal and surface water transfer water bodies
- WFD Lake water bodies
- WFD Transitional and coastal water bodies
- WFD Surface water body catchments boundaries
- WFD Groundwater body boundaries

6.1 Water Network (OS MasterMap)

Records within 250m

16

Detailed water network of Great Britain showing the flow and precise central course of every river, stream, lake and canal.

Features are displayed on the Hydrology map on [page 46 >](#)

ID	Location	Type of water feature	Ground level	Permanence	Name
B	10m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-



ID	Location	Type of water feature	Ground level	Permanence	Name
2	50m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	53m E	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
D	53m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
4	55m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	108m E	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
5	136m SE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
E	141m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	150m E	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	150m E	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	151m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	152m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	153m E	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
F	157m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

