

## 2 Past land use - un-grouped



- Site Outline
- Search buffers in metres (m)
- Historical industrial land uses

### 2.1 Historical industrial land uses

#### Records within 500m

2

Potentially contaminative land use features digitised from historical Ordnance Survey mapping at 1:10,000 and 10,560 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on [page 18](#) >

| ID | Location | Land Use | Date | Group ID |
|----|----------|----------|------|----------|
| A  | 428m SW  | Cuttings | 1985 | 2120374  |
| A  | 428m SW  | Cuttings | 1969 | 2120374  |

*This data is sourced from Ordnance Survey / Groundsure.*



## 2.2 Historical tanks

**Records within 500m****0**

Tank features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

*This data is sourced from Ordnance Survey / Groundsure.*

## 2.3 Historical energy features

**Records within 500m****0**

Energy features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

*This data is sourced from Ordnance Survey / Groundsure.*

## 2.4 Historical petrol stations

**Records within 500m****0**

Petrol stations digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

*This data is sourced from Ordnance Survey / Groundsure.*

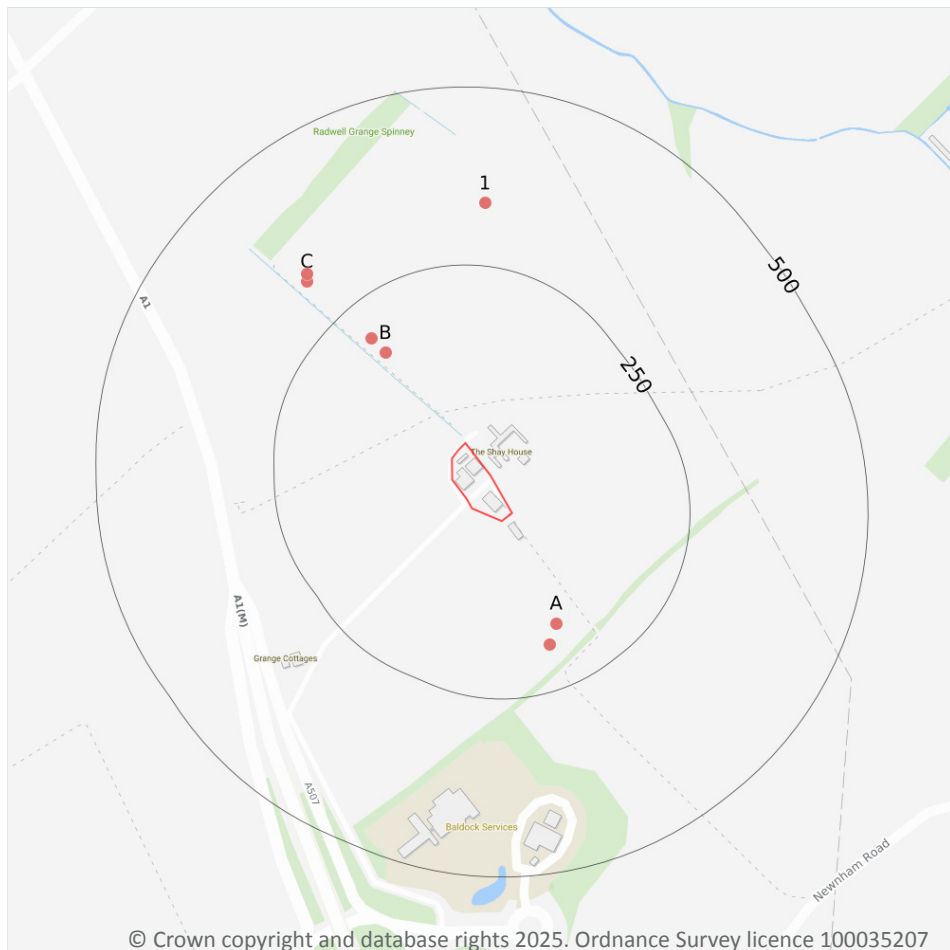
## 2.5 Historical garages

**Records within 500m****0**

Garages digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

*This data is sourced from Ordnance Survey / Groundsure.*

## 3 Waste and landfill



- Site Outline
- Search buffers in metres (m)
- Waste exemptions

### 3.1 Active or recent landfill

Records within 500m

0

Active or recently closed landfill sites under Environment Agency/Natural Resources Wales regulation.

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

### 3.2 Historical landfill (BGS records)

Records within 500m

0

Landfill sites identified on a survey carried out on behalf of the DoE in 1973. These sites may have been closed or operational at this time.

*This data is sourced from the British Geological Survey.*



### 3.3 Historical landfill (LA/mapping records)

Records within 500m

0

Landfill sites identified from Local Authority records and high detail historical mapping.

*This data is sourced from the Ordnance Survey/Groundsure and Local Authority records.*

### 3.4 Historical landfill (EA/NRW records)

Records within 500m

0

Known historical (closed) landfill sites (e.g. sites where there is no PPC permit or waste management licence currently in force). This includes sites that existed before the waste licensing regime and sites that have been licensed in the past but where a licence has been revoked, ceased to exist or surrendered and a certificate of completion has been issued.

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

### 3.5 Historical waste sites

Records within 500m

0

Waste site records derived from Local Authority planning records and high detail historical mapping.

*This data is sourced from Ordnance Survey/Groundsure and Local Authority records.*

### 3.6 Licensed waste sites

Records within 500m

0

Active or recently closed waste sites under Environment Agency/Natural Resources Wales regulation.

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

### 3.7 Waste exemptions

Records within 500m

7

Activities involving the storage, treatment, use or disposal of waste that are exempt from needing a permit. Exemptions have specific limits and conditions that must be adhered to.

Features are displayed on the Waste and landfill map on [page 20](#) >

| ID | Location | Site | Reference | Category                | Sub-Category | Description       |
|----|----------|------|-----------|-------------------------|--------------|-------------------|
| A  | 163m SE  | -    | WEX232792 | Storing waste exemption | On a farm    | Storage of sludge |

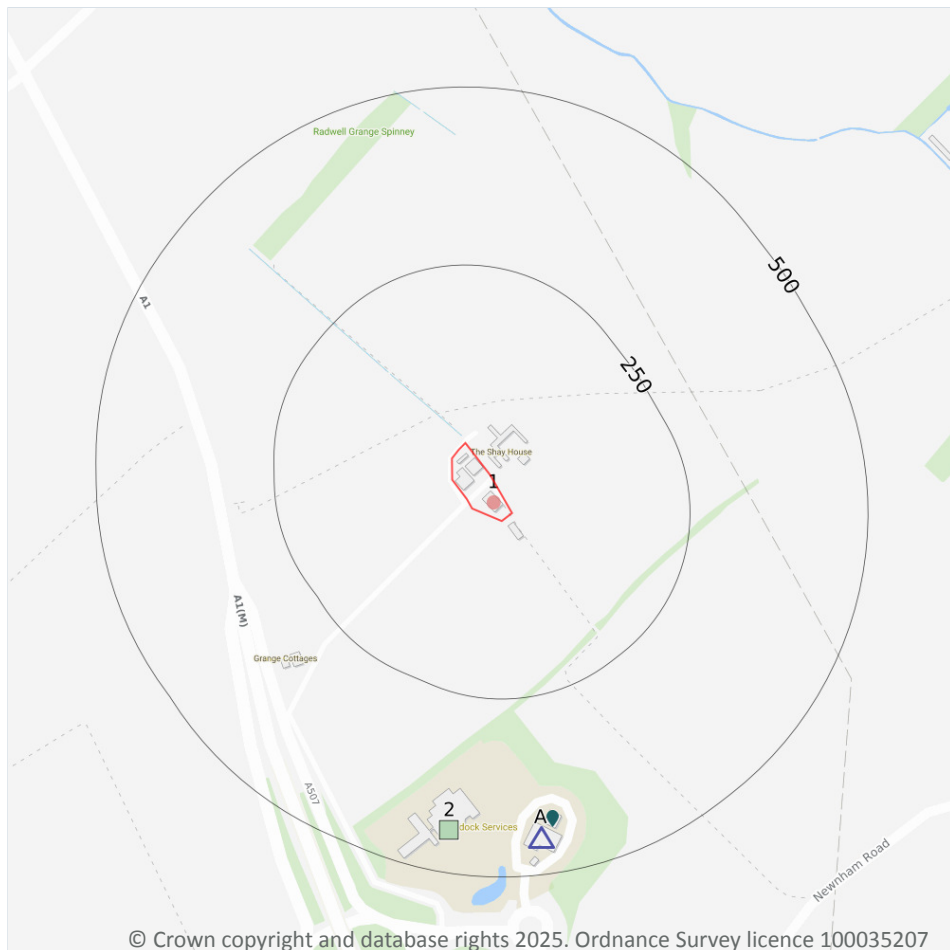


| ID | Location | Site                               | Reference          | Category                | Sub-Category                | Description       |
|----|----------|------------------------------------|--------------------|-------------------------|-----------------------------|-------------------|
| B  | 169m NW  | -                                  | WEX307501          | Storing waste exemption | On a farm                   | Storage of sludge |
| A  | 186m SE  | -                                  | WEX373941          | Storing waste exemption | On a farm                   | Storage of sludge |
| B  | 197m NW  | -                                  | WEX391402          | Storing waste exemption | On a farm                   | Storage of sludge |
| C  | 317m NW  | Land At Grid Reference: TI23253739 | EPR/SE5641N H/A001 | Storing waste exemption | Non-agricultural waste only | Storage of sludge |
| C  | 325m NW  | -                                  | WEX248672          | Storing waste exemption | On a farm                   | Storage of sludge |
| 1  | 337m N   | -                                  | WEX307500          | Storing waste exemption | On a farm                   | Storage of sludge |

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



## 4 Current industrial land use



- Site Outline
- Search buffers in metres (m)
- Recent industrial land uses
- △ Current or recent petrol stations
- Licensed pollutant release (Part A(2)/B)
- List 2 Dangerous Substances

### 4.1 Recent industrial land uses

#### Records within 250m

1

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on [page 23](#) >

| ID | Location | Company                           | Address                                                                     | Activity           | Category            |
|----|----------|-----------------------------------|-----------------------------------------------------------------------------|--------------------|---------------------|
| 1  | On site  | Herts & Beds<br>Transmissions Ltd | 3 Radwell Grange Farm, Great North Road,<br>Radwell, Hertfordshire, SG7 5EU | Vehicle Components | Industrial Products |

*This data is sourced from Ordnance Survey.*



## 4.2 Current or recent petrol stations

**Records within 500m****1**

Open, closed, under development and obsolete petrol stations.

Features are displayed on the Current industrial land use map on [page 23](#) >

| ID | Location | Company | Address                                                  | LPG | Status |
|----|----------|---------|----------------------------------------------------------|-----|--------|
| A  | 448m S   | SHELL   | A1(m) J10, Baldock Road, Baldock, Hertfordshire, SG7 5TR | No  | Open   |

*This data is sourced from Experian.*

## 4.3 Electricity cables

**Records within 500m****0**

High voltage underground electricity transmission cables.

*This data is sourced from National Grid.*

## 4.4 Gas pipelines

**Records within 500m****0**

High pressure underground gas transmission pipelines.

*This data is sourced from National Grid.*

## 4.5 Sites determined as Contaminated Land

**Records within 500m****0**

Contaminated Land Register of sites designated under Part 2a of the Environmental Protection Act 1990.

*This data is sourced from Local Authority records.*

## 4.6 Control of Major Accident Hazards (COMAH)

**Records within 500m****0**

Control of Major Accident Hazards (COMAH) sites. This data includes upper and lower tier sites, and includes a historical archive of COMAH sites and Notification of Installations Handling Hazardous Substances (NIHHS) records.

*This data is sourced from the Health and Safety Executive.*



## 4.7 Regulated explosive sites

**Records within 500m****0**

Sites registered and licensed by the Health and Safety Executive under the Manufacture and Storage of Explosives Regulations 2005 (MSER). The last update to this data was in April 2011.

*This data is sourced from the Health and Safety Executive.*

## 4.8 Hazardous substance storage/usage

**Records within 500m****0**

Consents granted for a site to hold certain quantities of hazardous substances at or above defined limits in accordance with the Planning (Hazardous Substances) Regulations 2015.

*This data is sourced from Local Authority records.*

## 4.9 Historical licensed industrial activities (IPC)

**Records within 500m****0**

Integrated Pollution Control (IPC) records of substance releases to air, land and water. This data represents a historical archive as the IPC regime has been superseded.

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

## 4.10 Licensed industrial activities (Part A(1))

**Records within 500m****0**

Records of Part A(1) installations regulated under the Environmental Permitting (England and Wales) Regulations 2016 for the release of substances to the environment.

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

## 4.11 Licensed pollutant release (Part A(2)/B)

**Records within 500m****1**

Records of Part A(2) and Part B installations regulated under the Environmental Permitting (England and Wales) Regulations 2016 for the release of substances to the environment.

Features are displayed on the Current industrial land use map on [page 23](#) >

| ID | Location | Address                                                                                                               | Details                                                                                                        |                                                                                                                             |
|----|----------|-----------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| A  | 424m S   | Extra MSA Forecourts (formerly Shell), Baldock Services, A1/A507 Interchange Radwell, Baldock, Hertfordshire, SG7 5TR | Process: Unloading of Petrol into Storage at Service Stations<br>Status: Current Permit<br>Permit Type: Part B | Enforcement: No Enforcements Notified<br>Date of enforcement: No Enforcements Notified<br>Comment: No Enforcements Notified |

*This data is sourced from Local Authority records.*

## 4.12 Radioactive Substance Authorisations

|                            |          |
|----------------------------|----------|
| <b>Records within 500m</b> | <b>0</b> |
|----------------------------|----------|

Records of the storage, use, accumulation and disposal of radioactive substances regulated under the Radioactive Substances Act 1993.

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

## 4.13 Licensed Discharges to controlled waters

|                            |          |
|----------------------------|----------|
| <b>Records within 500m</b> | <b>0</b> |
|----------------------------|----------|

Discharges of treated or untreated effluent to controlled waters under the Water Resources Act 1991.

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

## 4.14 Pollutant release to surface waters (Red List)

|                            |          |
|----------------------------|----------|
| <b>Records within 500m</b> | <b>0</b> |
|----------------------------|----------|

Discharges of specified substances under the Environmental Protection (Prescribed Processes and Substances) Regulations 1991.

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

## 4.15 Pollutant release to public sewer

|                            |          |
|----------------------------|----------|
| <b>Records within 500m</b> | <b>0</b> |
|----------------------------|----------|

Discharges of Special Category Effluents to the public sewer.

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

## 4.16 List 1 Dangerous Substances

**Records within 500m****0**

Discharges of substances identified on List I of European Directive E 2006/11/EC, and regulated under the Environmental Damage (Prevention and Remediation) Regulations 2015.

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

## 4.17 List 2 Dangerous Substances

**Records within 500m****1**

Discharges of substances identified on List II of European Directive E 2006/11/EC, and regulated under the Environmental Damage (Prevention and Remediation) Regulations 2015.

Features are displayed on the Current industrial land use map on [page 23 >](#)

| ID | Location | Name             | Status     | Receiving Water | Authorised Substances |
|----|----------|------------------|------------|-----------------|-----------------------|
| 2  | 440m S   | Baldock Services | Not Active | Na              | pH                    |

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

## 4.18 Pollution Incidents (EA/NRW)

**Records within 500m****0**

Records of substantiated pollution incidents. Since 2006 this data has only included category 1 (major) and 2 (significant) pollution incidents.

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

## 4.19 Pollution inventory substances

**Records within 500m****0**

The pollution inventory (substances) includes reporting on annual emissions of certain regulated substances to air, controlled waters and land. A reporting threshold for each substance is also included. Where emissions fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

*This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.*



## 4.20 Pollution inventory waste transfers

Records within 500m

0

The pollution inventory (waste transfers) includes reporting on annual transfers and recovery/disposal of controlled wastes from a site. A reporting threshold for each waste type is also included. Where releases fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

*This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.*

## 4.21 Pollution inventory radioactive waste

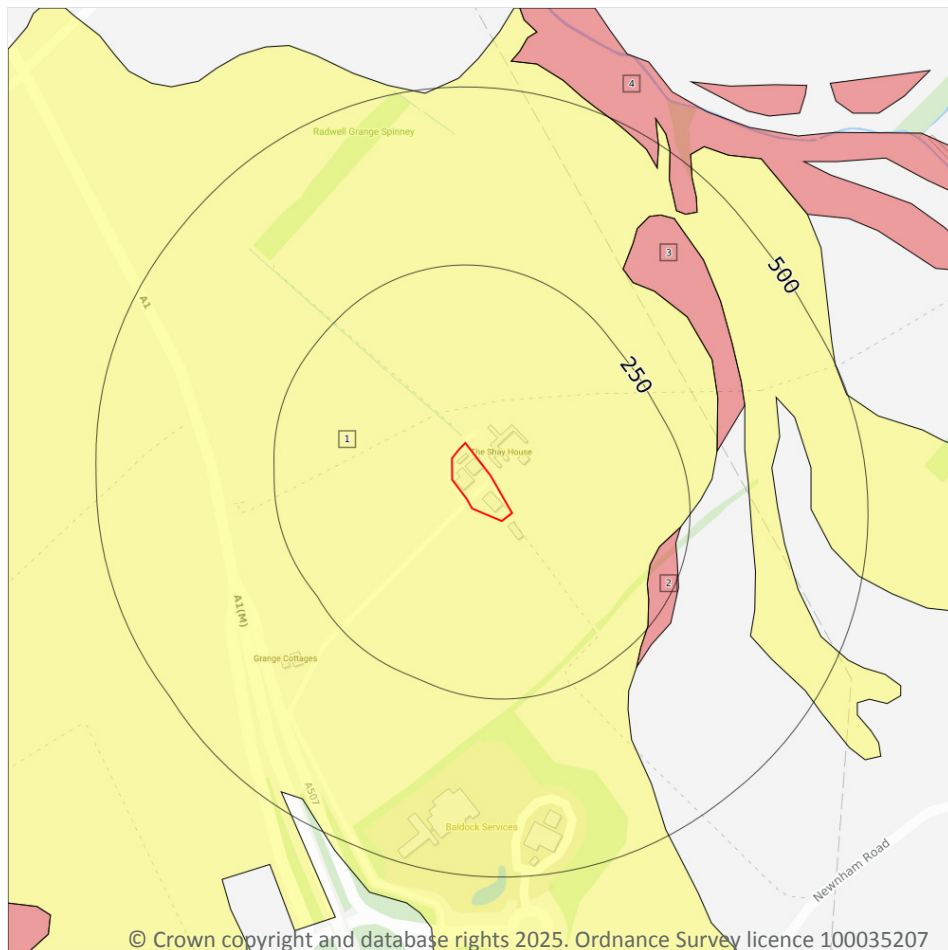
Records within 500m

0

The pollution inventory (radioactive wastes) includes reporting on annual releases of radioactive substances from a site, including the means of release. Where releases fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

*This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.*

## 5 Hydrogeology - Superficial aquifer



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

### 5.1 Superficial aquifer

Records within 500m

4

Aquifer status of groundwater held within superficial geology.

Features are displayed on the Hydrogeology map on [page 29 >](#)

| ID | Location | Designation                | Description                                                                                                                                                                                                                                             |
|----|----------|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1  | On site  | Secondary Undifferentiated | Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type |
| 2  | 207m SE  | 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                  |

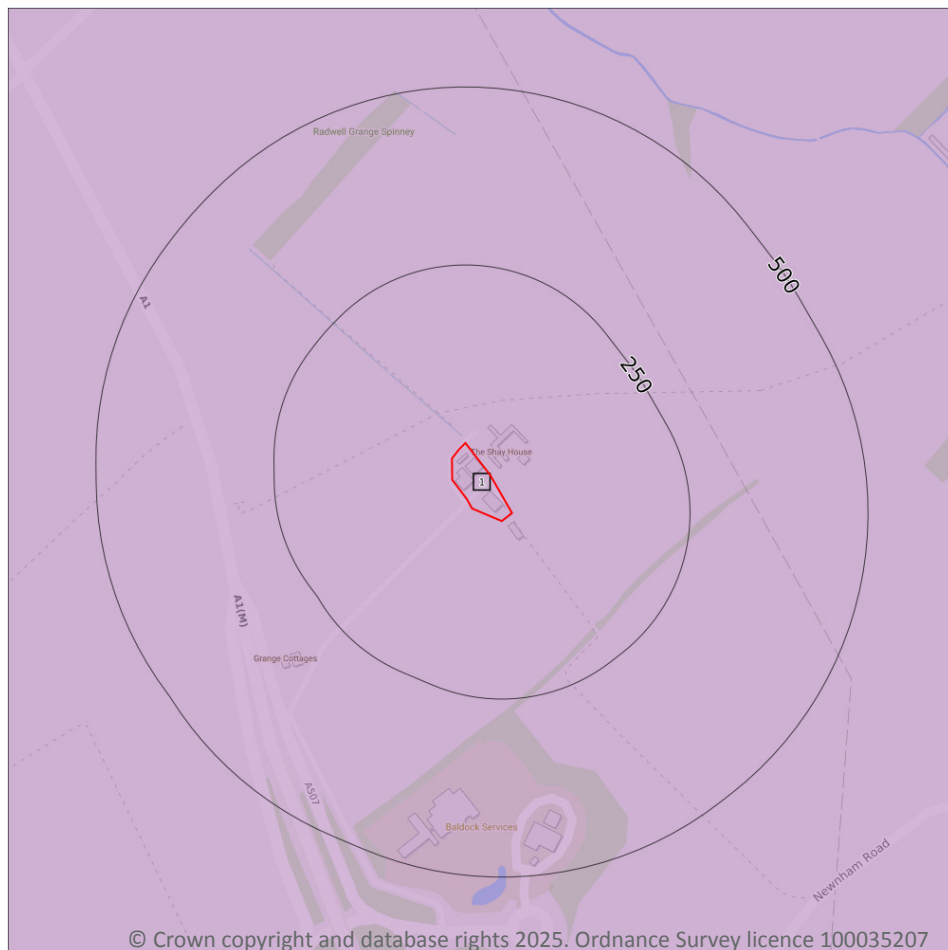


| ID | Location | Designation | Description                                                                                                                                                                                                                            |
|----|----------|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3  | 301m E   | 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 |
| 4  | 441m NE  | 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.*



## Bedrock aquifer



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

### 5.2 Bedrock aquifer

Records within 500m

1

Aquifer status of groundwater held within bedrock geology.

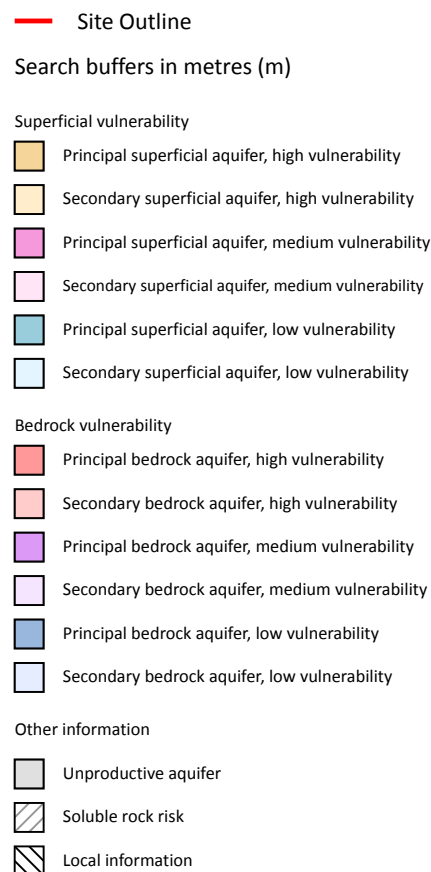
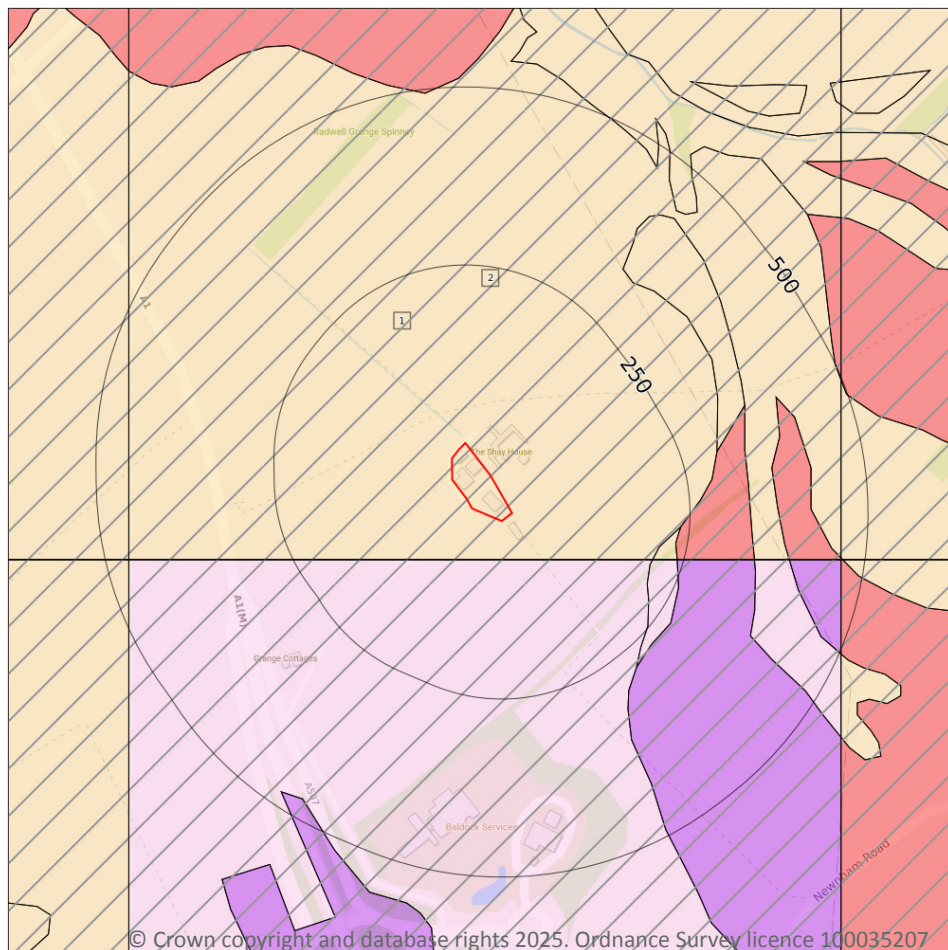
Features are displayed on the Bedrock aquifer map on [page 31](#) >

| ID | Location | Designation | Description                                                                                                                                                                                                                                |
|----|----------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1  | On site  | Principal   | Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major 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

1

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 32](#) >



| ID | Location | Summary                                                                                                                                                                                        | Soil / surface                                                                                             | Superficial geology                                                                                                                                            | Bedrock geology                                                                                                    |
|----|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| 1  | On site  | <b>Summary Classification:</b><br>Secondary superficial aquifer<br>- High Vulnerability<br><b>Combined classification:</b><br>Productive Bedrock Aquifer,<br>Productive Superficial<br>Aquifer | <b>Leaching class:</b> High<br><b>Infiltration value:</b><br>>70%<br><b>Dilution value:</b><br><300mm/year | <b>Vulnerability:</b> High<br><b>Aquifer type:</b> Secondary<br><b>Thickness:</b> 3-10m<br><b>Patchiness value:</b> <90%<br><b>Recharge potential:</b> No Data | <b>Vulnerability:</b> High<br><b>Aquifer type:</b> Principal<br><b>Flow mechanism:</b> Well<br>connected fractures |

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

## 5.4 Groundwater vulnerability- soluble rock risk

|                        |          |
|------------------------|----------|
| <b>Records on site</b> | <b>1</b> |
|------------------------|----------|

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

| ID | Maximum soluble risk category                                                                                                           | Percentage of grid square covered by maximum risk |
|----|-----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| 2  | <b>Significant soluble rocks are likely to be present. Problems unlikely except with considerable surface or subsurface water flow.</b> | <b>82.0%</b>                                      |

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

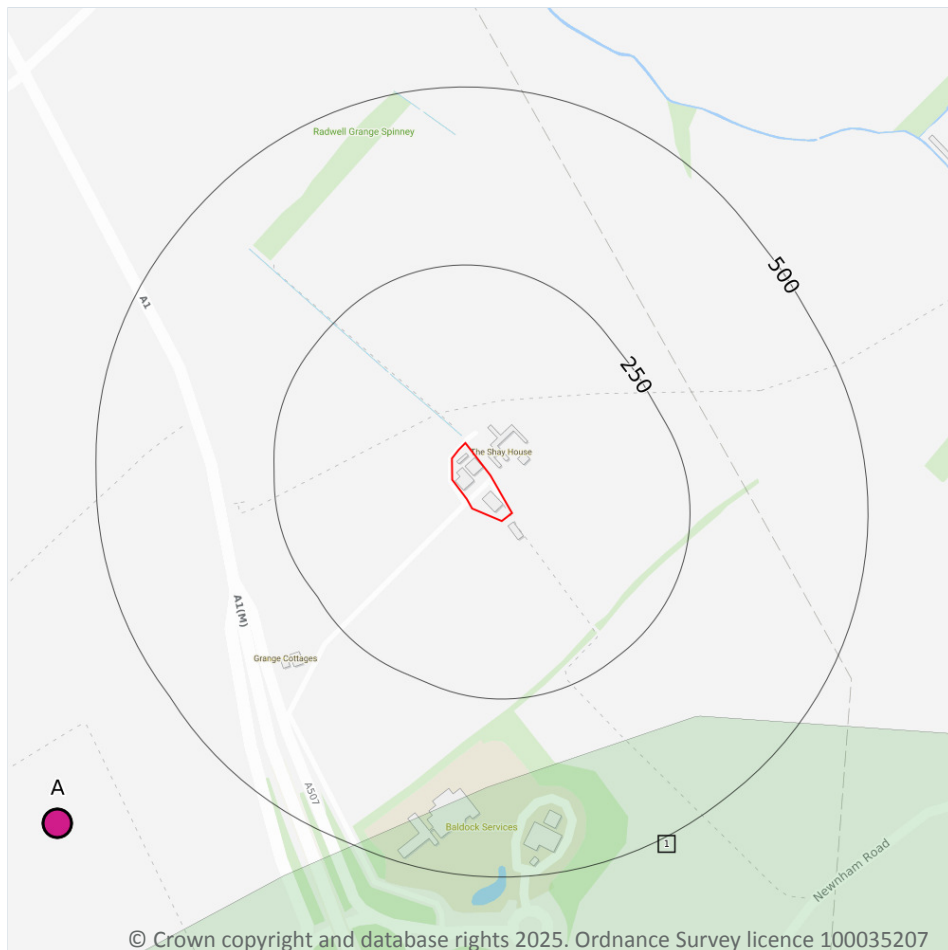
## 5.5 Groundwater vulnerability- local information

|                        |          |
|------------------------|----------|
| <b>Records on site</b> | <b>0</b> |
|------------------------|----------|

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](mailto: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  
Point features
- 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

6

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.

Features are displayed on the Abstractions and Source Protection Zones map on [page 34](#) >



| ID | Location | Details                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                 |
|----|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| A  | 731m SW  | Status: Active<br>Licence No: 6/33/14/*G/0026<br>Details: Spray Irrigation - Direct<br>Direct Source: GROUND WATER SOURCE OF SUPPLY<br>Point: WELL W OF RADWELL<br>Data Type: Point<br>Name: MEREDITH HARDY FARM PARTNERSHIP<br>Easting: 522900<br>Northing: 236630  | Annual Volume (m <sup>3</sup> ): 4591<br>Max Daily Volume (m <sup>3</sup> ): 111.6<br>Original Application No: -<br>Original Start Date: 01/04/1968<br>Expiry Date: -<br>Issue No: 100<br>Version Start Date: 01/04/1997<br>Version End Date: - |
| A  | 731m SW  | Status: Active<br>Licence No: 6/33/14/*G/0026<br>Details: General Farming & Domestic<br>Direct Source: GROUND WATER SOURCE OF SUPPLY<br>Point: WELL W OF RADWELL<br>Data Type: Point<br>Name: MEREDITH HARDY FARM PARTNERSHIP<br>Easting: 522900<br>Northing: 236630 | Annual Volume (m <sup>3</sup> ): 4591<br>Max Daily Volume (m <sup>3</sup> ): 111.6<br>Original Application No: -<br>Original Start Date: 01/04/1968<br>Expiry Date: -<br>Issue No: 100<br>Version Start Date: 01/04/1997<br>Version End Date: - |
| -  | 1256m S  | Status: Historical<br>Licence No: 6/33/14/*G/0035<br>Details: General Farming & Domestic<br>Direct Source: GROUND WATER SOURCE OF SUPPLY<br>Point: BOREHOLE AT RADWELL<br>Data Type: Point<br>Name: D NORTHERN & SONS<br>Easting: 523350<br>Northing: 235810         | Annual Volume (m <sup>3</sup> ): -<br>Max Daily Volume (m <sup>3</sup> ): -<br>Original Application No: -<br>Original Start Date: 01/01/1968<br>Expiry Date: -<br>Issue No: 100<br>Version Start Date: 01/01/1968<br>Version End Date: -        |
| -  | 1265m NE | Status: Active<br>Licence No: 6/33/14/*G/0028<br>Details: General Farming & Domestic<br>Direct Source: GROUND WATER SOURCE OF SUPPLY<br>Point: BOREHOLE AT NEWNHAM<br>Data Type: Point<br>Name: A E & W A FARR LTD<br>Easting: 524660<br>Northing: 237650            | Annual Volume (m <sup>3</sup> ): 8018<br>Max Daily Volume (m <sup>3</sup> ): 52.73<br>Original Application No: -<br>Original Start Date: 01/10/1967<br>Expiry Date: -<br>Issue No: 100<br>Version Start Date: 01/04/2008<br>Version End Date: - |
| -  | 1543m SW | Status: Active<br>Licence No: 6/33/14/*G/0026<br>Details: General Farming & Domestic<br>Direct Source: GROUND WATER SOURCE OF SUPPLY<br>Point: WELL W OF RADWELL<br>Data Type: Point<br>Name: MEREDITH HARDY FARM PARTNERSHIP<br>Easting: 522860<br>Northing: 235660 | Annual Volume (m <sup>3</sup> ): 4591<br>Max Daily Volume (m <sup>3</sup> ): 111.6<br>Original Application No: -<br>Original Start Date: 01/04/1968<br>Expiry Date: -<br>Issue No: 100<br>Version Start Date: 01/04/1997<br>Version End Date: - |



| ID | Location | Details                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                 |
|----|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| -  | 1543m SW | Status: Active<br>Licence No: 6/33/14/*G/0026<br>Details: Spray Irrigation - Direct<br>Direct Source: GROUND WATER SOURCE OF SUPPLY<br>Point: WELL W OF RADWELL<br>Data Type: Point<br>Name: MEREDITH HARDY FARM PARTNERSHIP<br>Easting: 522860<br>Northing: 235660 | Annual Volume (m <sup>3</sup> ): 4591<br>Max Daily Volume (m <sup>3</sup> ): 111.6<br>Original Application No: -<br>Original Start Date: 01/04/1968<br>Expiry Date: -<br>Issue No: 100<br>Version Start Date: 01/04/1997<br>Version End Date: - |

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

## 5.7 Surface water abstractions

|                             |           |
|-----------------------------|-----------|
| <b>Records within 2000m</b> | <b>11</b> |
|-----------------------------|-----------|

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 34 >](#)

| ID | Location | Details                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                   |
|----|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| -  | 939m N   | Status: Historical<br>Licence No: 6/33/14/*S/0065<br>Details: Spray Irrigation - Direct<br>Direct Source: SURFACE WATER SOURCE OF SUPPLY<br>Point: CAT DITCH - NEWNHAM '5'<br>Data Type: Point<br>Name: A E & W A FARR LTD<br>Easting: 523400<br>Northing: 238100 | Annual Volume (m <sup>3</sup> ): -<br>Max Daily Volume (m <sup>3</sup> ): -<br>Original Application No: -<br>Original Start Date: 01/05/1993<br>Expiry Date: 30/09/2002<br>Issue No: 100<br>Version Start Date: 01/05/1993<br>Version End Date: - |
| -  | 1065m NE | Status: Historical<br>Licence No: 6/33/14/*S/0065<br>Details: Spray Irrigation - Direct<br>Direct Source: SURFACE WATER SOURCE OF SUPPLY<br>Point: CAT DITCH - NEWNHAM "4"<br>Data Type: Point<br>Name: A E & W A FARR LTD<br>Easting: 524400<br>Northing: 237700 | Annual Volume (m <sup>3</sup> ): -<br>Max Daily Volume (m <sup>3</sup> ): -<br>Original Application No: -<br>Original Start Date: 01/05/1993<br>Expiry Date: 30/09/2002<br>Issue No: 100<br>Version Start Date: 01/05/1993<br>Version End Date: - |



| ID | Location | Details                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                 |
|----|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| -  | 1174m E  | Status: Historical<br>Licence No: 6/33/14/*S/0065<br>Details: Spray Irrigation - Direct<br>Direct Source: SURFACE WATER SOURCE OF SUPPLY<br>Point: UN-NAMED DRAIN - NEWNHAM 'C'<br>Data Type: Point<br>Name: A E & W A FARR LTD<br>Easting: 524700<br>Northing: 236900           | Annual Volume (m <sup>3</sup> ): -<br>Max Daily Volume (m <sup>3</sup> ): -<br>Original Application No: -<br>Original Start Date: 01/05/1993<br>Expiry Date: 30/09/2002<br>Issue No: 100<br>Version Start Date: 01/05/1993<br>Version End Date: -               |
| -  | 1290m E  | Status: Historical<br>Licence No: 6/33/14/*S/0065<br>Details: Spray Irrigation - Direct<br>Direct Source: SURFACE WATER SOURCE OF SUPPLY<br>Point: UN-NAMED DRAIN - NEWNHAM 'B'<br>Data Type: Point<br>Name: A E & W A FARR LTD<br>Easting: 524800<br>Northing: 236800           | Annual Volume (m <sup>3</sup> ): -<br>Max Daily Volume (m <sup>3</sup> ): -<br>Original Application No: -<br>Original Start Date: 01/05/1993<br>Expiry Date: 30/09/2002<br>Issue No: 100<br>Version Start Date: 01/05/1993<br>Version End Date: -               |
| -  | 1294m SW | Status: Active<br>Licence No: AN/033/0014/005<br>Details: Spray Irrigation - Storage<br>Direct Source: SURFACE WATER SOURCE OF SUPPLY<br>Point: RADWELL LAKE AT RADWELL<br>Data Type: Point<br>Name: Northern of Radwell<br>Easting: 522981<br>Northing: 235879                  | Annual Volume (m <sup>3</sup> ): 50000<br>Max Daily Volume (m <sup>3</sup> ): -<br>Original Application No: NPS/WR/032118<br>Original Start Date: 23/12/2021<br>Expiry Date: 31/03/2028<br>Issue No: 1<br>Version Start Date: 23/12/2021<br>Version End Date: - |
| -  | 1318m SW | Status: Active<br>Licence No: 6/33/14/*S/0027<br>Details: Spray Irrigation - Direct<br>Direct Source: SURFACE WATER SOURCE OF SUPPLY<br>Point: TRIB OF RIVER IVEL AT RADWELL<br>Data Type: Point<br>Name: MEREDITH HARDY FARM PARTNERSHIP<br>Easting: 522880<br>Northing: 235900 | Annual Volume (m <sup>3</sup> ): 1091<br>Max Daily Volume (m <sup>3</sup> ): 98<br>Original Application No: -<br>Original Start Date: 01/04/1968<br>Expiry Date: -<br>Issue No: 100<br>Version Start Date: 01/04/2008<br>Version End Date: -                    |
| -  | 1396m SW | Status: Active<br>Licence No: 6/33/14/*S/0027<br>Details: Spray Irrigation - Direct<br>Direct Source: SURFACE WATER SOURCE OF SUPPLY<br>Point: RIVER IVEL AT RADWELL<br>Data Type: Point<br>Name: MEREDITH HARDY FARM PARTNERSHIP<br>Easting: 522740<br>Northing: 235890         | Annual Volume (m <sup>3</sup> ): 1091<br>Max Daily Volume (m <sup>3</sup> ): 98<br>Original Application No: -<br>Original Start Date: 01/04/1968<br>Expiry Date: -<br>Issue No: 100<br>Version Start Date: 01/04/2008<br>Version End Date: -                    |



| ID | Location | Details                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                   |
|----|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| -  | 1421m SW | Status: Active<br>Licence No: 6/33/14/*S/0027<br>Details: Spray Irrigation - Direct<br>Direct Source: SURFACE WATER SOURCE OF SUPPLY<br>Point: RIVER IVEL AT RADWELL<br>Data Type: Point<br>Name: MEREDITH HARDY FARM PARTNERSHIP<br>Easting: 522890<br>Northing: 235780 | Annual Volume (m <sup>3</sup> ): 1091<br>Max Daily Volume (m <sup>3</sup> ): 98<br>Original Application No: -<br>Original Start Date: 01/04/1968<br>Expiry Date: -<br>Issue No: 100<br>Version Start Date: 01/04/2008<br>Version End Date: -      |
| -  | 1461m S  | Status: Active<br>Licence No: 6/33/14/*S/0027<br>Details: Spray Irrigation - Direct<br>Direct Source: SURFACE WATER SOURCE OF SUPPLY<br>Point: RIVER IVEL AT RADWELL<br>Data Type: Point<br>Name: MEREDITH HARDY FARM PARTNERSHIP<br>Easting: 523000<br>Northing: 235690 | Annual Volume (m <sup>3</sup> ): 1091<br>Max Daily Volume (m <sup>3</sup> ): 98<br>Original Application No: -<br>Original Start Date: 01/04/1968<br>Expiry Date: -<br>Issue No: 100<br>Version Start Date: 01/04/2008<br>Version End Date: -      |
| -  | 1510m NE | Status: Historical<br>Licence No: 6/33/14/*S/0065<br>Details: Spray Irrigation - Direct<br>Direct Source: SURFACE WATER SOURCE OF SUPPLY<br>Point: CAT DITCH - NEWNHAM "3"<br>Data Type: Point<br>Name: A E & W A FARR LTD<br>Easting: 524800<br>Northing: 237900        | Annual Volume (m <sup>3</sup> ): -<br>Max Daily Volume (m <sup>3</sup> ): -<br>Original Application No: -<br>Original Start Date: 01/05/1993<br>Expiry Date: 30/09/2002<br>Issue No: 100<br>Version Start Date: 01/05/1993<br>Version End Date: - |
| -  | 1726m E  | Status: Historical<br>Licence No: 6/33/14/*S/0065<br>Details: Spray Irrigation - Direct<br>Direct Source: SURFACE WATER SOURCE OF SUPPLY<br>Point: UN-NAMED DRAIN - NEWNHAM 'A'<br>Data Type: Point<br>Name: A E & W A FARR LTD<br>Easting: 525200<br>Northing: 236600   | Annual Volume (m <sup>3</sup> ): -<br>Max Daily Volume (m <sup>3</sup> ): -<br>Original Application No: -<br>Original Start Date: 01/05/1993<br>Expiry Date: 30/09/2002<br>Issue No: 100<br>Version Start Date: 01/05/1993<br>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****1**

Source Protection Zones define the sensitivity of an area around a potable abstraction site to contamination. Features are displayed on the Abstractions and Source Protection Zones map on [page 34 >](#)

| ID | Location | Type | Description     |
|----|----------|------|-----------------|
| 1  | 347m S   | 3    | Total catchment |

*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

3

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 40 >](#)

| ID | Location | Type of water feature                               | Ground level      | Permanence                                                      | Name |
|----|----------|-----------------------------------------------------|-------------------|-----------------------------------------------------------------|------|
| A  | 12m N    | 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 |
|----|----------|-----------------------------------------------------|-------------------|-----------------------------------------------------------------|------|
| A  | 21m N    | Inland river not influenced by normal tidal action. | Underground       | Watercourse contains water year round (in normal circumstances) | -    |
| 3  | 32m NW   | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | -    |

*This data is sourced from the Ordnance Survey.*

## 6.2 Surface water features

|                            |          |
|----------------------------|----------|
| <b>Records within 250m</b> | <b>3</b> |
|----------------------------|----------|

Covering rivers, streams and lakes (some overlap with OS MasterMap Water Network data in previous section) but additionally covers smaller features such as ponds. Rivers and streams narrower than 5m are represented as a single line. Lakes, ponds and rivers or streams wider than 5m are represented as polygons.

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

*This data is sourced from the Ordnance Survey.*

## 6.3 WFD Surface water body catchments

|                        |          |
|------------------------|----------|
| <b>Records on site</b> | <b>1</b> |
|------------------------|----------|

The Water Framework Directive is an EU-led framework for the protection of inland surface waters, estuaries, coastal waters and groundwater through river basin-level management planning. In terms of surface water, these basins are broken down into smaller units known as management, operational and water body catchments.

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

| ID | Location | Type  | Water body catchment | Water body ID  | Operational catchment | Management catchment   |
|----|----------|-------|----------------------|----------------|-----------------------|------------------------|
| 1  | On site  | River | Cat Ditch            | GB105033037740 | Ivel                  | Ouse Upper and Bedford |

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

## 6.4 WFD Surface water bodies

|                           |          |
|---------------------------|----------|
| <b>Records identified</b> | <b>1</b> |
|---------------------------|----------|

Surface water bodies under the Directive may be rivers, lakes, estuary or coastal. To achieve the purpose of the Directive, environmental objectives have been set and are reported on for each water body. The progress towards delivery of the objectives is then reported on by the relevant competent authorities at the end of each six-year cycle. The river water body directly associated with the catchment listed in the previous section is detailed below, along with any lake, canal, coastal or artificial water body within 250m of the site. Click on the water body ID in the table to visit the EA Catchment Explorer to find out more about each water body listed.

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

| ID | Location | Type  | Name      | Water body ID                    | Overall rating | Chemical rating | Ecological rating | Year |
|----|----------|-------|-----------|----------------------------------|----------------|-----------------|-------------------|------|
| -  | 571m NE  | River | Cat Ditch | <a href="#">GB105033037740</a> ↗ | Moderate       | Fail            | Good              | 2019 |

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

## 6.5 WFD Groundwater bodies

|                        |          |
|------------------------|----------|
| <b>Records on site</b> | <b>1</b> |
|------------------------|----------|

Groundwater bodies are also covered by the Directive and the same regime of objectives and reporting detailed in the previous section is in place. Click on the water body ID in the table to visit the EA Catchment Explorer to find out more about each groundwater body listed.

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

| ID | Location | Name                     | Water body ID                    | Overall rating | Chemical rating | Quantitative | Year |
|----|----------|--------------------------|----------------------------------|----------------|-----------------|--------------|------|
| 2  | On site  | Upper Bedford Ouse Chalk | <a href="#">GB40601G603000</a> ↗ | Poor           | Poor            | Poor         | 2019 |

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

## 7 River and coastal flooding

### 7.1 Risk of flooding from rivers and the sea

**Records within 50m****0**

The chance of flooding from rivers and/or the sea in any given year, based on cells of 50m within the Risk of Flooding from Rivers and Sea (RoFRaS)/Flood Risk Assessment Wales (FRAW) models. Each cell is allocated one of four flood risk categories, taking into account flood defences and their condition. The risk categories for RoFRaS for rivers and the sea and FRAW for rivers are; Very low (less than 1 in 1000 chance in any given year), Low (less than 1 in 100 but greater than or equal to 1 in 1000 chance), Medium (less than 1 in 30 but greater than or equal to 1 in 100 chance) or High (greater than or equal to 1 in 30 chance). The risk categories for FRAW for the sea are; Very low (less than 1 in 1000 chance in any given year), Low (less than 1 in 200 but greater than or equal to 1 in 1000 chance), Medium (less than 1 in 30 but greater than or equal to 1 in 200 chance) or High (greater than or equal to 1 in 30 chance).

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

### 7.2 Historical Flood Events

**Records within 250m****0**

Records of historic flooding from rivers, the sea, groundwater and surface water. Records began in 1946 when predecessor bodies started collecting detailed information about flooding incidents, although limited details may be included on flooding incidents prior to this date. Takes into account the presence of defences, structures, and other infrastructure where they existed at the time of flooding, and includes flood extents that may have been affected by overtopping, breaches or blockages.

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

### 7.3 Flood Defences

**Records within 250m****0**

Records of flood defences owned, managed or inspected by the Environment Agency and Natural Resources Wales. Flood defences can be structures, buildings or parts of buildings. Typically these are earth banks, stone and concrete walls, or sheet-piling that is used to prevent or control the extent of flooding.

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



## 7.4 Areas Benefiting from Flood Defences

Records within 250m

0

Areas that would benefit from the presence of flood defences in a 1 in 100 (1%) chance of flooding each year from rivers or 1 in 200 (0.5%) chance of flooding each year from the sea.

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

## 7.5 Flood Storage Areas

Records within 250m

0

Areas that act as a balancing reservoir, storage basin or balancing pond to attenuate an incoming flood peak to a flow level that can be accepted by the downstream channel or to delay the timing of a flood peak so that its volume is discharged over a longer period.

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



## River and coastal flooding - Flood Zones

### 7.6 Flood Zone 2

Records within 50m

0

Areas of land at risk of flooding, when the presence of flood defences are ignored. Covering land between Flood Zone 3 (see next section) and the extent of the flooding from rivers or the sea with a 1 in 1000 (0.1%) chance of flooding each year.

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

### 7.7 Flood Zone 3

Records within 50m

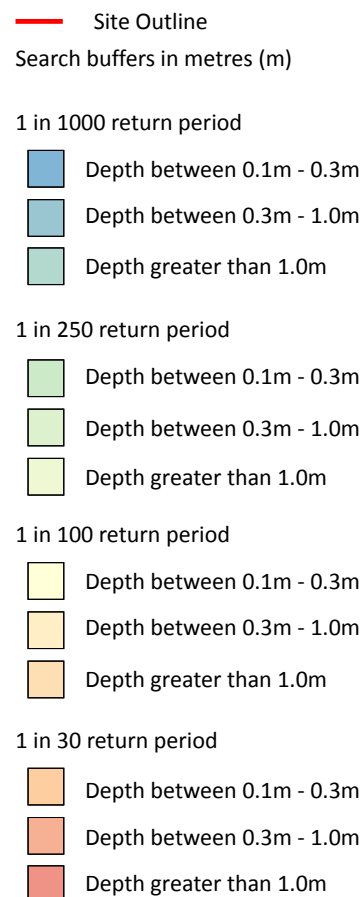
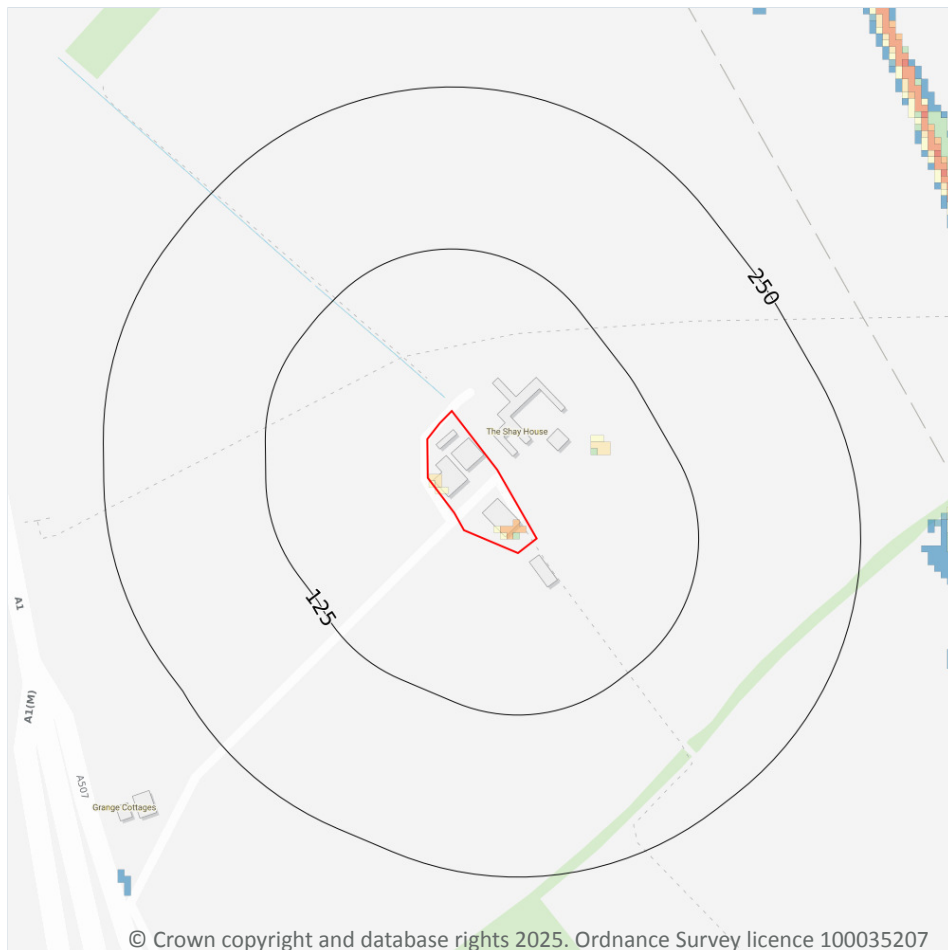
0

Areas of land at risk of flooding, when the presence of flood defences are ignored. Covering land with a 1 in 100 (1%) or greater chance of flooding each year from rivers or a 1 in 200 (0.5%) or greater chance of flooding each year from the sea.

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



## 8 Surface water flooding



### 8.1 Surface water flooding

**Highest risk on site**

**1 in 30 year, 0.1m - 0.3m**

**Highest risk within 50m**

**1 in 30 year, 0.1m - 0.3m**

Ambiental Risk Analytics surface water (pluvial) FloodMap identifies areas likely to flood as a result of extreme rainfall events, i.e. land naturally vulnerable to surface water ponding or flooding. This data set was produced by simulating 1 in 30 year, 1 in 100 year, 1 in 250 year and 1 in 1,000 year rainfall events. Modern urban drainage systems are typically built to cope with rainfall events between 1 in 20 and 1 in 30 years, though some older ones may flood in a 1 in 5 year rainfall event.

Features are displayed on the Surface water flooding map on [page 46 >](#)

The data shown on the map and in the table above shows the highest likelihood of flood events happening at the site. Lower likelihood events may have greater flood depths and hence a greater potential impact on a site.