# APPENDIX F

SU 76 NE/137 7742, 6692 137

| | | | | |
|---|---|---|---|---|
| IGES | 19 Talisman Square, KENILWORTH, CV8 1JB. Tel: 01926 851113 Fax: 01926 851394 | Job No. 6685 | Site : CALDWELL NURSERIES, WOKINGHAM. Client : BRYANT COUNTRY HOMES LTD Engineer : | BOREHOLE LOG BH 2 Sheet 1 of 1 |

| Method | Date | Drilling Crew | Logged By | Scale |
|---|---|---|---|---|
| Endrive Hand System. | 01/12/97 - 01/12/97 | Danetre Drilling | LC | 1:25 |

| Dia (mm) | Coord | Ground Level m. |
|---|---|---|
| 100 | | |

| Date & Casing Depth | Depth m. | Sample Type | Water Level | SPT N or Cu | M/C % | Depth m. | Description of Strata | Legend |
|---|---|---|---|---|---|---|---|---|
| | 0.10 | D | | | | | TOPSOIL | |
| | 0.40 - 0.60 | D | | | | 0.40 | Very stiff desiccated, friable grey brown mottled orange brown very silty CLAY. | |
| | | | | | | 0.60 | Very stiff,desiccated, orange brown, very silty CLAY with occasional rootlets. | |
| | 1.40 - 1.60 | D,P | | >250 | | | | |
| | 1.80 - 1.90 | D,P | | >250 | | | -Becoming less desiccated with depth to 2.9m. | |
| | 2.40 - 2.50 | D,P | | >250 | | | -No rootlets below 2.4m. | |
| | | | | | | 2.90 | Very stiff fissured brown silty CLAY | |
| | 3.10 - 3.50 | D,P | | 150 | 28 | | | |
| | 3.60 - 3.90 | D,P | | 150 | | | | |
| | | | | | | 4.00 | | |
| 01/12/97 | | | | | | | | |

Remarks
1/ No groundwater encountered

GROUNDWATER

| Struck | Cased | 20 mins | Sealed | Remarks |
|---|---|---|---|---|
| | | | | |

British Geological Survey

BGS ID: 427093 : BGS Reference: SU76NE138
British National Grid (27700) : 477410,166870

SU 76 NE/138 7741, 6687 138

| IGES | 19 Talisman Square, KENILWORTH, CV8 1JB. Tel: 01926 851113 Fax: 01926 851394 | Job No. 6685 | Site : CALDWELL NURSERIES, WOKINGHAM. Client : BRYANT COUNTRY HOMES LTD Engineer : | BOREHOLE LOG BH 3 Sheet 1 of 1 |
|---|---|---|---|---|

| Method | Date | Drilling Crew | Logged By | Scale |
|---|---|---|---|---|
| Endrive Hand System. | 01/12/97 - 01/12/97 | Danetre Drilling | LC | 1:25 |

| Dia (mm) | Coord | Ground Level m. |
|---|---|---|
| 100 | | |

| Date & Casing Depth | Depth m. | Sample Type | Water Level | SPT N or Cu | M/C % | Depth m. | Description of Strata | Legend |
|---|---|---|---|---|---|---|---|---|
| | 0.10 | D | | | | | TURF over TOPSOIL | |
| | | | | | | 0.30 | | |
| | 0.50 - 0.60 | D,P | | 100 | 30 | | Stiff, orange brown, mottled grey very silty CLAY. | |
| | 1.10 - 1.30 | D,P | | 150 | | | | |
| | 1.80 - 1.90 | D,P | | 150 | | | | |
| | 2.30 - 2.40 | D,P | | 100 | | | | |
| | 2.70 - 2.90 | D,P | | 100 | | | Becoming fissured from 2.7m | |
| | | | | | | 3.30 | Very stiff, fissured brown silty CLAY | |
| | 3.50 - 3.90 | D,P | | 100 | | | | |
| | | | | | | 4.00 | | |
| 01/12/97 | | | | | | | | |

Remarks
1/ No groundwater encountered.

| GROUNDWATER | | | | |
|---|---|---|---|---|
| Struck | Cased | 20 mins | Sealed | Remarks |
| | | | | |

Contact BGS: ngdc@bgs.ac.uk

SU 76 NE/139 7744,6688 139

| IGES | 19 Talisman Square, KENILWORTH, CV8 1JB. Tel: 01926 851113 Fax: 01926 851394 | Job No. 6685 | Site : CALDWELL NURSERIES, WOKINGHAM. Client : BRYANT COUNTRY HOMES LTD Engineer : | BOREHOLE LOG BH 4 Sheet 1 of 1 |
|---|---|---|---|---|

| Method | Date | Drilling Crew | Logged By | Scale |
|---|---|---|---|---|
| Endrive Hand System. | 01/12/97 - 01/12/97 | Danetre Drilling | LC | 1:25 |

| Dia (mm) | Coord | Ground Level m. |
|---|---|---|
| 100 | | |

| Date & Casing Depth | Depth m. | Sample Type | Water Level | SPT N or Cu | M/C % | Depth m. | Description of Strata | Legend |
|---|---|---|---|---|---|---|---|---|
| | 0.10 | D | | | | | TOPSOIL | |
| | | | | | | 0.30 | Very stiff, desiccated, grey brown very silty CLAY with occasional rootlets. | |
| | 0.60 - 0.70 | D,P | | >250 | | | | |
| | 1.00 - 1.20 | D,P | | >250 | | 0.95 | Very stiff,desiccated, orange brown and grey very silty CLAY with occasional rootlets. | |
| | 1.80 - 1.90 | D,P | | >250 | | | | |
| | 2.30 | D,P | | >250 | | | -No rootlets below 2.5m. -With no evidence of decication from 3.10m. | |
| | 3.10 - 3.50 | D,P | | 150 | | | | |
| | | | | | | 3.40 | Very stiff fissured brown silty CLAY. | |
| | | | | | | 4.00 | | |
| 01/12/97 | | | | | | | | |

Remarks
1/ No groundwater encountered

| GROUNDWATER | | | | |
|---|---|---|---|---|
| Struck | Cased | 20 mins | Sealed | Remarks |
| | | | | |

SU76 NE/140 7743, 6686 140

| IGES | 19 Talisman Square, KENILWORTH, CV8 1JB. Tel: 01926 851113 Fax: 01926 851394 | Job No. 6685 | Site : CALDWELL NURSERIES, WOKINGHAM. Client : BRYANT COUNTRY HOMES LTD Engineer : | BOREHOLE LOG BH 5 Sheet 1 of 1 |
|---|---|---|---|---|

| Method | Date | Drilling Crew | Logged By | Scale |
|---|---|---|---|---|
| Endrive Hand System. | 01/12/97 - 01/12/97 | Danetre Drilling | LC | 1:25 |

| Dia (mm) | Coord | Ground Level m. |
|---|---|---|
| 100 | | |

| Date & Casing Depth | Depth m. | Sample Type | Water Level | SPT N or Cu | M/C % | Depth m. | Description of Strata | Legend |
|---|---|---|---|---|---|---|---|---|
| | 0.10 | D | | | | | TURF over TOPSOIL | |
| | | | | | | 0.40 | | |
| | 0.60 - 0.70 | D,P | | 100 | | | Stiff grey brown mottled orange brown slightly sandy silty CLAY. with occasional rootlets and rare medium subrounded gravel. | |
| | | | | | | 1.10 | | |
| | 1.20 - 1.50 | D,P | | 150 | | | Stiff grey brown mottled orange brown and grey very silty CLAY. | |
| | 1.90 | D,P | | 150 | | | | |
| | 2.40 - 2.50 | D,P | | 150 | | | | |
| | 3.10 - 3.30 | D,P | | 150 | | | -Becoming fissured with depth.<br>-Occassional orange brown silt inclusions. | |
| | 3.60 - 3.90 | D,P | | 150 | | 3.60 | Very stiff fissured brown silty CLAY | |
| | | | | | | 4.00 | | |
| 01/12/97 | | | | | | | | |

Remarks
1/ No groundwater encountered

| GROUNDWATER | | | | |
|---|---|---|---|---|
| Struck | Cased | 20 mins | Sealed | Remarks |
| | | | | |

7775 6586 SU 76 NE 110

# Holst Soil Engineering Limited

Borehole No. 77

## BOREHOLE LOG

Contract No. SI1449/F2758
Location Arborfield
Client Department of the Environment
Method of Boring Auger
Diameter of Borehole 0.406

Sheet 1 of 1
Chainage
Ground Level 54.10m AOD.
Date 17.12.73

| Description of Strata | Legend | Depth below G.L(m) | Thickness of Strata(m) | Type of Sample | c KN/sq.m | ø deg | m.c. % | y Kg/cum | N |
|---|---|---|---|---|---|---|---|---|---|
| TOPSOIL | | 0.20 | 0.20 | | | | | | |
| Soft brown sandy CLAY. | | 0.80 | 0.60 | | | | | | |
| Grey clayey SAND with very soft grey clay layers. | | 2.40 | 1.60 | | | | | | |
| Soft to firm grey silty CLAY. | | 3.00 | 0.60 | | | | | | |

Type of Sample
□ Undisturbed Sample
○ Disturbed Sample
△ Water Sample
I Penetration Test
c Apparent Cohesion
ø Angle of Friction
m.c. Moisture Content
y Bulk Density
N S.P.T. Value

Remarks (Observations of Ground Water etc)

Water struck 2.50m
standing level after 2 hrs. 2.30m

Water levels are subject to seasonal or tidal variations and should not be taken as constant

7729 6619 SU 76 NE 54

# Holst Soil Engineering Limited

Borehole No. 21

## BOREHOLE LOG

Contract No. SI1449/F2758
Location Arborfield
Client Department of the Environment
Method of Boring Percussion
Diameter of Borehole 0.15m

Sheet 1 of 1
Chainage
Ground Level 52.85m AOD.
Date 12.12.73

| Description of Strata | Legend | Depth below G.L(m) | Thickness of Strata(m) | Type of Sample | c KN/sq.m | ø deg | m.c. % | y Kg/cum | N |
|---|---|---|---|---|---|---|---|---|---|
| MADE GROUND Brick fragments in clay. | | 0.70 | 0.70 | 0.75 | | | | | |
| Firm grey silty CLAY. | | 2.00 | 1.30 | | 24 | 0 | 24.5 | 1990 | |
| Firm brown sandy CLAY. | | 4.00 | 2.00 | 2.50<br>4.00 | | | | | |
| Firm grey silty CLAY. | | 6.00 | 2.00 | 5.50 | 134 | 0 | 22.5 | 2040 | |

Type of Sample
□ Undisturbed Sample
○ Disturbed Sample
△ Water Sample
I Penetration Test
c Apparent Cohesion
ø Angle of Friction
m.c. Moisture Content
y Bulk Density
N S.P.T. Value

Remarks (Observations of Ground Water etc)

Water first struck 4.10m

Water levels are subject to seasonal or tidal variations and should not be taken as constant

7738 6616 SU76 NE 55

# Holst Soil Engineering Limited

Borehole No. 22

## BOREHOLE LOG

Contract No. SI1449/F2758
Location Arborfield
Client Department of the Environment.
Method of Boring Percussion
Diameter of Borehole 0.15m

Sheet 1 of 1
Chainage
Ground Level 51.75m AOD.
Date 12.12.73

| Description of Strata | Legend | Depth below G.L(m) | Thickness of Strata(m) | Type of Sample | c KN/sq.m | ø deg | m.c. % | y Kg/cum | N |
|---|---|---|---|---|---|---|---|---|---|
| MADE GROUND Brick fragments. in clay. | | 0.60 | 0.60 | | | | | | |
| Firm grey silty CLAY | | 2.30 | 1.70 | 0.75 | | | | | |
| Firm brown sandy CLAY | | 4.80 | 2.50 | 2.50 | 24 | 0 | 27.6 | 1910 | |
| | | | | 4.00 | | | | | |
| Firm grey silty CLAY. | | 6.00 | 1.20 | 5.50 | 157 | 4 | 33.1 | 2050 | |

Type of Sample
- Undisturbed Sample
- Disturbed Sample
- Water Sample
- I Penetration Test
- c Apparent Cohesion
- ø Angle of Friction
- m.c. Moisture Content
- y Bulk Density
- N S.P.T. Value

Remarks (Observations of Ground Water etc)

Water first struck 2.80m

Water levels are subject to seasonal or tidal variations and should not be taken as constant

# Holst Soil Engineering Limited

## BOREHOLE LOG

Borehole No. 79

9076 NE 112
7786 6580

Contract No. SI1449/F2758
Location Arborfield
Client Department of the Environment
Method of Boring Auger
Diameter of Borehole 0.406m

Sheet 1 of 1
Chainage
Ground Level 57.20m AOD.
Date 17.12.73

| Description of Strata | Legend | Depth below G.L(m) | Thickness of Strata(m) | Type of Sample | c KN/sq.m | ø deg | m.c. % | y Kg/cum | N |
|---|---|---|---|---|---|---|---|---|---|
| TOPSOIL | | 0.30 | 0.30 | | | | | | |
| Brown SAND | | 3.00 | 2.70 | | | | | | |

Type of Sample
□ Undisturbed Sample
○ Disturbed Sample
△ Water Sample
I Penetration Test
c Apparent Cohesion
ø Angle of Friction
m.c. Moisture Content
y Bulk Density
N S.P.T. Value

Remarks (Observations of Ground Water etc)

Water not encountered while boring
still dry after 2 hours.

Water levels are subject to seasonal or tidal variations and should not be taken as constant

7698 6645 SU76 NE 87

# Holst Soil Engineering Limited

Borehole No. 54

## BOREHOLE LOG

Contract No. SI1449/F2758
Location Arborfield
Client Department of the Environment
Method of Boring Auger (Mechanical)
Diameter of Borehole 0.406m

Sheet 1 of 1
Chainage
Ground Level 55.40m AOD.
Date 19.12.73

| Description of Strata | Legend | Depth below G.L(m) | Thickness of Strata(m) | Type of Sample | c KN/sq.m | ø deg | m.c. % | γ Kg/cum | N |
|---|---|---|---|---|---|---|---|---|---|
| MADE GROUND Rock and brick fragments in clay. | | 0.50 | 0.50 | | | | | | |
| Soft to firm brown grey mottled silty sandy CLAY. | | 3.00 | 2.50 | | | | | | |

Type of Sample
□ Undisturbed Sample
○ Disturbed Sample
△ Water Sample
I Penetration Test
c Apparent Cohesion
ø Angle of Friction
m.c. Moisture Content
γ Bulk Density
N S.P.T. Value

Remarks (Observations of Ground Water etc)
Water not encountered while boring
Borehole backfilled.

Water levels are subject to seasonal or tidal variations and should not be taken as constant

770 / 6652 SU 76NE 88

# Holst Soil Engineering Limited

Borehole No. 55

## BOREHOLE LOG

Contract No. SI1449/F2758
Location Arborfield
Client Department of the Environment
Method of Boring Auger
Diameter of Borehole 0.406m

Sheet 1 of 1
Chainage
Ground Level 57.50m AOD.
Date 19.12.73

| Description of Strata | Legend | Depth below G.L(m) | Thickness of Strata(m) | Type of Sample | c KN/sq.m | ø deg | m.c. % | γ Kg/cum | N |
|---|---|---|---|---|---|---|---|---|---|
| TOPSOIL and MADE GROUND | | 0.30 | 0.30 | | | | | | |
| Soft to firm brown grey mottled silty sandy CLAY. | | 3.00 | 2·70 | | | | | | |

Type of Sample
□ Undisturbed Sample
○ Disturbed Sample
△ Water Sample
I Penetration Test
c Apparent Cohesion
ø Angle of Friction
m.c. Moisture Content
γ Bulk Density
N S.P.T. Value

Remarks (Observations of Ground Water etc)

Not encountered while boring
Borehole backfilled.

Water levels are subject to seasonal or tidal variations and should not be taken as constant

7720 6621 SU 76 NE 90

# Holst Soil Engineering Limited

Borehole No. 57

## BOREHOLE LOG

Contract No. SI1449/F2758
Location Arborfield
Client Department of the Environment
Method of Boring Auger
Diameter of Borehole 0.406m

Sheet 1 of 1
Chainage
Ground Level 54.75m AOD.
Date 19.12.73

| Description of Strata | Legend | Depth below G.L(m) | Thickness of Strata(m) | Type of Sample | c KN/sq.m | ø deg | m.c. % | γ Kg/cum | N |
|---|---|---|---|---|---|---|---|---|---|
| TOPSOIL | | 0.20 | 0.20 | | | | | | |
| Soft grey/brown mottled silty CLAY. | | 1.00 | 0.80 | | | | | | |
| Soft to firm brown grey mottled sandy CLAY with clayey sand lenses. | | 3.00 | 2·00 | | | | | | |

Type of Sample
□ Undisturbed Sample
○ Disturbed Sample
△ Water Sample
I Penetration Test
c Apparent Cohesion
ø Angle of Friction
m.c. Moisture Content
γ Bulk Density
N S.P.T. Value

Remarks (Observations of Ground Water etc)

Not encountered while boring
Borehole backfilled.

Water levels are subject to seasonal or tidal variations and should not be taken as constant

7746 660 / SU 76 NE 99

# Holst Soil Engineering Limited

Borehole No. 66

## BOREHOLE LOG

Contract No. SI1449/F2758
Location Arborfield
Client Department of the Environment
Method of Boring Auger
Diameter of Borehole 0.406m

Sheet 1 of 1
Chainage
Ground Level 50.40m AOD.
Date 17.12.73

| Description of Strata | Legend | Depth below G.L(m) | Thickness of Strata(m) | Type of Sample | c KN/sq.m | ø deg | m.c. % | y Kg/cum | N |
|---|---|---|---|---|---|---|---|---|---|
| MADE GROUND Brick fragments concrete stones in clay. | | 0.70 | 0.70 | | | | | | |
| MADE GROUND Stoney clay with peat. | | 2.00 | 1.30 | | | | | | |
| MADE GROUND Clayey gravel | | 2.50 | 0.50 | | | | | | |
| Soft brown/grey CLAY. | | 3.00 | 1.00 | | | | | | |

Type of Sample
□ Undisturbed Sample
○ Disturbed Sample
△ Water Sample
I Penetration Test
c Apparent Cohesion

ø Angle of Friction
m.c. Moisture Content
y Bulk Density
N S.P.T. Value

Remarks (Observations of Ground Water etc)

Water levels are subject to seasonal or tidal variations and should not be taken as constant

7733 6614 SU 76NE 56

# Holst Soil Engineering Limited

Borehole No. 23

## BOREHOLE LOG

Contract No. SI1449/F2758
Location Arborfield
Client Department of the Environment
Method of Boring Percussion
Diameter of Borehole 0.15m

Sheet 1 of 2
Chainage
Ground Level 52.60m AOD.
Date 11.12.73

| Description of Strata | Legend | Depth below G.L.(m) | Thickness of Strata(m) | Type of Sample | c KN/sq.m | ø deg | m.c. % | y Kg/cum | N |
|---|---|---|---|---|---|---|---|---|---|
| MADE GROUND - Clay topsoil and stones. | | 0.60 | 0.60 | | | | | | |
| Soft grey silty CLAY | | 2.00 | 1.40 | 0.75 | 35 | 0 | 28.7 | 1940 | |
| Firm brown silty sandy CLAY | | 5.00 | 3.00 | 2.50<br>4.00 | 23 | 4 | 21.1 | 1980 | |
| Firm grey silty CLAY | | 7.00 | 2.00 | 5.50<br>7.00 | 122 | 0 | 23.0 | 2030 | |
| Stiff grey silty CLAY | | | | 8.50<br>10.00 | 189 | 3 | 23.1 | 2030 | |

log continued.....

Type of Sample
□ Undisturbed Sample
○ Disturbed Sample
△ Water Sample
I Penetration Test
c Apparent Cohesion
ø Angle of Friction
m.c. Moisture Content
y Bulk Density
N S.P.T. Value

Remarks (Observations of Ground Water etc)

see water level chart.

Water levels are subject to seasonal or tidal variations and should not be taken as constant

# Holst Soil Engineering Limited

Borehole No. 23

## BOREHOLE LOG

Contract No. SI1449/F2758
Location Arborfield
Client Department of the Environment
Method of Boring Percussion
Diameter of Borehole 0.15m

SU76 NE/56

Sheet 2 of 2
Chainage
Ground Level
Date

| Description of Strata | Legend | Depth below G.L(m) | Thickness of Strata(m) | Type of Sample | c KN/sq.m | ø deg | m.c. % | y Kg/cum | N |
|---|---|---|---|---|---|---|---|---|---|
| Stiff grey silty CLAY | | | | | | | | | |
| | | | | 11.50 | | | | | |
| | | | | | 193 | 0 | 24.4 | 2020 | |
| | | | | 13.00 | | | | | |
| | | | | 15.00 | | | | | |
| | | 15.50 | 8·50 | | | | | | |

Type of Sample
- Undisturbed Sample
- Disturbed Sample
- Water Sample
- I Penetration Test
- c Apparent Cohesion
- ø Angle of Friction
- m.c. Moisture Content
- y Bulk Density
- N S.P.T. Value

Remarks (Observations of Ground Water etc)

Water levels are subject to seasonal or tidal variations and should not be taken as constant

British Geological Survey

BGS ID: 427026 : BGS Reference: SU76NE71
British National Grid (27700) : 477150,165980

TNS 6548 SU 76 NE 71

# Holst Soil Engineering Limited

Borehole No. 38

## BOREHOLE LOG

Contract No. SI1449/F2758
Location Arborfield
Client Department of the Environment
Method of Boring Percussion
Diameter of Borehole 0.20m

Sheet 1 of 2
Chainage
Ground Level 53.50m AOD
Date 7.12.73

| Description of Strata | Legend | Depth below G.L(m) | Thickness of Strata(m) | Type of Sample | c KN/sq.m | ø deg | m.c. % | y Kg/cum | N |
|---|---|---|---|---|---|---|---|---|---|
| TOPSOIL | | 0.20 | 0.20 | | | | | | |
| Soft to firm brown grey mottled silty sandy CLAY becoming stiff with depth | | | | 0.45 | | | | | |
| | | | | 1.60 | 73 | 0 | 22.0 | 1960 | |
| | | | | 2.60 | 122 | 0 | 21.8 | 2000 | |
| | | 3.60 | 3.40 | | | | | | |
| Stiff grey silty CLAY. | | | | 4.05 | | | | | |
| | | | | 6.00 | 173 | 0 | 23.9 | 1980 | |
| | | | | 7.70 | | | | | |
| | | | | 9.20 | | | | | |

log continued....

Type of Sample
□ Undisturbed Sample
○ Disturbed Sample
△ Water Sample
I Penetration Test
c Apparent Cohesion
ø Angle of Friction
m.c. Moisture Content
y Bulk Density
N S.P.T. Value

Remarks (Observations of Ground Water etc)

borehole dry during boring
Standing level after 24 hrs 1.

Water levels are subject to seasonal or tidal variations and should not be taken as consta

Contact BGS: ngdc@bgs.ac.uk

# Holst Soil Engineering Limited

Borehole No. 38

## BOREHOLE LOG

Contract No. SI1449/F2758
Location Arborfield
Client Department of the Environment
Method of Boring Percussion
Diameter of Borehole 0.20m

SU 76 NE/71

Sheet 2 of 2
Chainage
Ground Level
Date

| Description of Strata | Legend | Depth below G.L(m) | Thickness of Strata(m) | Type of Sample | c KN/sq.m | ø deg | m.c. % | y Kg/cum | N |
|---|---|---|---|---|---|---|---|---|---|
| Stiff grey silty CLAY. | | | | 10.70 | 155 | 8 | 19.1 | 2050 | |
| | | | | 12.20 | | | | | |
| | | | | 13.70 | | | | | |
| | | | | 15.30 | | | | | |
| | | 15.75 | 12.15 | | | | | | |

Type of Sample
□ Undisturbed Sample
○ Disturbed Sample
△ Water Sample
I Penetration Test
c Apparent Cohesion
ø Angle of Friction
m.c. Moisture Content
y Bulk Density
N S.P.T. Value

Remarks (Observations of Ground Water etc)

Water levels are subject to seasonal or tidal variations and should not be taken as constant

174 6518 SU 76 NE 79

# Holst Soil Engineering Limited

Borehole No. 46

## BOREHOLE LOG

Contract No. SI1449/F2758
Location Arborfield
Client Dept. of the Environment
Method of Boring Percussion
Diameter of Borehole 0.15m

Sheet 1 of 2
Chainage
Ground Level 54.60m AUD
Date 11.12.73

| Description of Strata | Legend | Depth below G.L(m) | Thickness of Strata(m) | Type of Sample | c KN/sq.m | ø deg | m.c. % | y Kg/cum | N |
|---|---|---|---|---|---|---|---|---|---|
| TOPSOIL | | 0.20 | 0.20 | | | | | | |
| Soft to firm brown grey mottled silty sandy CLAY | | | | 1.00 | 79 | 0 | 24.8 | 2010 | |
| | | | | 2.50 | 48 | 0 | 22.9 | 2020 | |
| | | 3.60 | 3.40 | | | | | | |
| Stiff grey silty CLAY becoming very stiff with depth. | | | | 4.00 | 131 | 0 | 21.9 | 2170 | |
| | | | | 5.50 | | | | | |
| | | | | 7.00 | | | | | |
| | | | | 8.50 | 190 | 0 | 20.1 | 2200 | |
| log contd..... | | | | 10.00 | | | | | |

Type of Sample
- ☐ Undisturbed Sample
- O Disturbed Sample
- △ Water Sample
- I Penetration Test
- c Apparent Cohesion
- ø Angle of Friction
- m.c. Moisture Content
- y Bulk Density
- N S.P.T. Value

Remarks (Observations of Ground Water etc)

see water level chart.

Water levels are subject to seasonal or tidal variations and should not be taken as consta

# Holst Soil Engineering Limited

Borehole No. 46

## BOREHOLE LOG

Contract No. SI1449/F2758
Location Arborfield
Client Department of the Environment
Method of Boring Percussion
Diameter of Borehole 0.15m

SU 76 NE 79

Sheet 2 of 2
Chainage
Ground Level
Date

| Description of Strata | Legend | Depth below G.L(m) | Thickness of Strata(m) | Type of Sample | c KN/sq.m | ø deg | m.c. % | y Kg/cum | N |
|---|---|---|---|---|---|---|---|---|---|
| Stiff grey silty CLAY becoming very stiff with depth. | | 10.50 | 6.90 | | | | | | |
| Grey SILTSTONE | | 10.70 | 0.20 | | | | | | |
| Hard grey silty CLAY. | | | | | | | | | |
| | | | | 13.00 | 211 | 0 | 18.8 | 2150 | |
| | | | | 14.50 | | | | | |
| | | | | 16.00 | | | | | |
| | | | | 17.50 | 218 | 0 | 22.2 | 2160 | |
| | | | | 19.50 | | | | | |
| | | 20.00 | 9.30 | | | | | | |

Type of Sample
□ Undisturbed Sample
○ Disturbed Sample
△ Water Sample
I Penetration Test
c Apparent Cohesion
ø Angle of Friction
m.c. Moisture Content
y Bulk Density
N S.P.T. Value

Remarks (Observations of Ground Water etc)

Water levels are subject to seasonal or tidal variations and should not be taken as constant

# APPENDIX G

Groundsure
LOCATION INTELLIGENCE

# Enviro+Geo Insight

## Barkham Square, Barkham Square, Arborfield, Wokingham, RG41 4TJ

## Order Details

**Date:** 26/02/2024

**Your ref:** EMS_927592_1150615

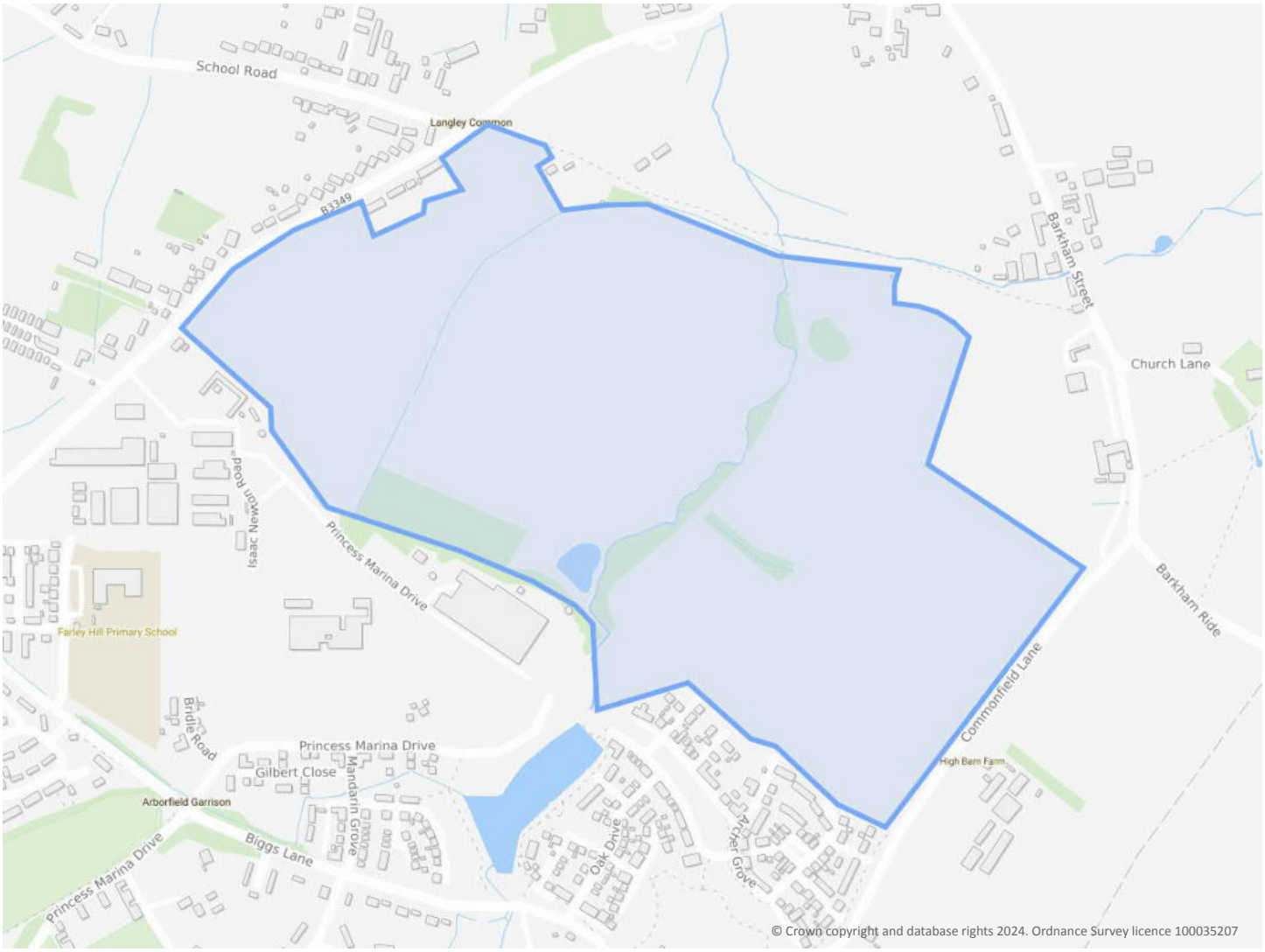
**Our Ref:** EMS-927592_1181346

## Site Details

**Location:** 477590 166321

**Area:** 57.66 ha

**Authority:** Wokingham Borough Council ↗





**Summary of findings** p. 2 >

**Aerial image** p. 9 >

**OS MasterMap site plan** N/A: >10ha

groundsure.com/insightuserguide ↗



Contact us with any questions at:
info@groundsure.com ↗
01273 257 755


Certified B Corporation

# Summary of findings

| Page | Section | Past land use > | On site | 0-50m | 50-250m | 250-500m | 500-2000m |
|---|---|---|---|---|---|---|---|
| 14 > | 1.1 > | Historical industrial land uses > | 3 | 7 | 6 | 9 | - |
| 16 > | 1.2 > | Historical tanks > | 0 | 7 | 6 | 7 | - |
| 17 > | 1.3 > | Historical energy features > | 0 | 2 | 0 | 4 | - |
| 17 | 1.4 | Historical petrol stations | 0 | 0 | 0 | 0 | - |
| 17 > | 1.5 > | Historical garages > | 0 | 3 | 0 | 0 | - |
| 18 | 1.6 | Historical military land | 0 | 0 | 0 | 0 | - |
| **Page** | **Section** | **Past land use - un-grouped >** | **On site** | **0-50m** | **50-250m** | **250-500m** | **500-2000m** |
| 19 > | 2.1 > | Historical industrial land uses > | 3 | 9 | 8 | 13 | - |
| 21 > | 2.2 > | Historical tanks > | 0 | 14 | 7 | 16 | - |
| 22 > | 2.3 > | Historical energy features > | 0 | 2 | 0 | 4 | - |
| 23 | 2.4 | Historical petrol stations | 0 | 0 | 0 | 0 | - |
| 23 > | 2.5 > | Historical garages > | 0 | 6 | 0 | 0 | - |
| **Page** | **Section** | **Waste and landfill >** | **On site** | **0-50m** | **50-250m** | **250-500m** | **500-2000m** |
| 24 | 3.1 | Active or recent landfill | 0 | 0 | 0 | 0 | - |
| 24 | 3.2 | Historical landfill (BGS records) | 0 | 0 | 0 | 0 | - |
| 25 | 3.3 | Historical landfill (LA/mapping records) | 0 | 0 | 0 | 0 | - |
| 25 | 3.4 | Historical landfill (EA/NRW records) | 0 | 0 | 0 | 0 | - |
| 25 | 3.5 | Historical waste sites | 0 | 0 | 0 | 0 | - |
| 25 > | 3.6 > | Licensed waste sites > | 0 | 0 | 2 | 0 | - |
| 26 > | 3.7 > | Waste exemptions > | 0 | 18 | 65 | 54 | - |
| **Page** | **Section** | **Current industrial land use >** | **On site** | **0-50m** | **50-250m** | **250-500m** | **500-2000m** |
| 38 > | 4.1 > | Recent industrial land uses > | 0 | 8 | 11 | - | - |
| 40 | 4.2 | Current or recent petrol stations | 0 | 0 | 0 | 0 | - |
| 40 | 4.3 | Electricity cables | 0 | 0 | 0 | 0 | - |
| 40 | 4.4 | Gas pipelines | 0 | 0 | 0 | 0 | - |
| 40 | 4.5 | Sites determined as Contaminated Land | 0 | 0 | 0 | 0 | - |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 40 | 4.6 | Control of Major Accident Hazards (COMAH) | 0 | 0 | 0 | 0 | - |
| 41 | 4.7 | Regulated explosive sites | 0 | 0 | 0 | 0 | - |
| 41 | 4.8 | Hazardous substance storage/usage | 0 | 0 | 0 | 0 | - |
| 41 | 4.9 | Historical licensed industrial activities (IPC) | 0 | 0 | 0 | 0 | - |
| 41 | 4.10 | Licensed industrial activities (Part A(1)) | 0 | 0 | 0 | 0 | - |
| 41 | 4.11 | Licensed pollutant release (Part A(2)/B) | 0 | 0 | 0 | 0 | - |
| **42 >** | **4.12 >** | **Radioactive Substance Authorisations >** | 0 | 0 | 0 | 1 | - |
| **42 >** | **4.13 >** | **Licensed Discharges to controlled waters >** | 0 | 0 | 4 | 0 | - |
| 43 | 4.14 | Pollutant release to surface waters (Red List) | 0 | 0 | 0 | 0 | - |
| 43 | 4.15 | Pollutant release to public sewer | 0 | 0 | 0 | 0 | - |
| 43 | 4.16 | List 1 Dangerous Substances | 0 | 0 | 0 | 0 | - |
| 43 | 4.17 | List 2 Dangerous Substances | 0 | 0 | 0 | 0 | - |
| **44 >** | **4.18 >** | **Pollution Incidents (EA/NRW) >** | 0 | 0 | 1 | 1 | - |
| 44 | 4.19 | Pollution inventory substances | 0 | 0 | 0 | 0 | - |
| 44 | 4.20 | Pollution inventory waste transfers | 0 | 0 | 0 | 0 | - |
| 45 | 4.21 | Pollution inventory radioactive waste | 0 | 0 | 0 | 0 | - |
| Page | Section | **Hydrogeology >** | On site | 0-50m | 50-250m | 250-500m | 500-2000m |
| **46 >** | **5.1 >** | **Superficial aquifer >** | Identified (within 500m) | | | | |
| **47 >** | **5.2 >** | **Bedrock aquifer >** | Identified (within 500m) | | | | |
| **48 >** | **5.3 >** | **Groundwater vulnerability >** | Identified (within 50m) | | | | |
| 51 | 5.4 | Groundwater vulnerability- soluble rock risk | None (within 0m) | | | | |
| 51 | 5.5 | Groundwater vulnerability- local information | None (within 0m) | | | | |
| **52 >** | **5.6 >** | **Groundwater abstractions >** | 0 | 0 | 0 | 0 | 6 |
| **54 >** | **5.7 >** | **Surface water abstractions >** | 0 | 0 | 0 | 0 | 6 |
| **56 >** | **5.8 >** | **Potable abstractions >** | 0 | 0 | 0 | 0 | 1 |
| 56 | 5.9 | Source Protection Zones | 0 | 0 | 0 | 0 | - |
| 57 | 5.10 | Source Protection Zones (confined aquifer) | 0 | 0 | 0 | 0 | - |
| Page | Section | **Hydrology >** | On site | 0-50m | 50-250m | 250-500m | 500-2000m |
| **58 >** | **6.1 >** | **Water Network (OS MasterMap) >** | 13 | 14 | 34 | - | - |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 63 > | 6.2 > | Surface water features > | 1 | 6 | 18 | - | - |
| 64 > | 6.3 > | WFD Surface water body catchments > | 1 | - | - | - | - |
| 64 > | 6.4 > | WFD Surface water bodies > | 0 | 1 | 0 | - | - |
| 64 > | 6.5 > | WFD Groundwater bodies > | 1 | - | - | - | - |
| Page | Section | River and coastal flooding > | On site | 0-50m | 50-250m | 250-500m | 500-2000m |
| 66 > | 7.1 > | Risk of flooding from rivers and the sea > | High (within 50m) | | | | |
| 67 | 7.2 | Historical Flood Events | 0 | 0 | 0 | - | - |
| 67 | 7.3 | Flood Defences | 0 | 0 | 0 | - | - |
| 67 | 7.4 | Areas Benefiting from Flood Defences | 0 | 0 | 0 | - | - |
| 67 | 7.5 | Flood Storage Areas | 0 | 0 | 0 | - | - |
| 68 > | 7.6 > | Flood Zone 2 > | Identified (within 50m) | | | | |
| 69 > | 7.7 > | Flood Zone 3 > | Identified (within 50m) | | | | |
| Page | Section | Surface water flooding > | | | | | |
| 70 > | 8.1 > | Surface water flooding > | 1 in 30 year, Greater than 1.0m (within 50m) | | | | |
| Page | Section | Groundwater flooding > | | | | | |
| 72 > | 9.1 > | Groundwater flooding > | Moderate (within 50m) | | | | |
| Page | Section | Environmental designations > | On site | 0-50m | 50-250m | 250-500m | 500-2000m |
| 73 > | 10.1 > | Sites of Special Scientific Interest (SSSI) > | 0 | 0 | 1 | 0 | 0 |
| 74 | 10.2 | Conserved wetland sites (Ramsar sites) | 0 | 0 | 0 | 0 | 0 |
| 74 | 10.3 | Special Areas of Conservation (SAC) | 0 | 0 | 0 | 0 | 0 |
| 74 | 10.4 | Special Protection Areas (SPA) | 0 | 0 | 0 | 0 | 0 |
| 74 | 10.5 | National Nature Reserves (NNR) | 0 | 0 | 0 | 0 | 0 |
| 75 > | 10.6 > | Local Nature Reserves (LNR) > | 0 | 0 | 1 | 0 | 0 |
| 75 > | 10.7 > | Designated Ancient Woodland > | 7 | 0 | 0 | 4 | 35 |
| 78 | 10.8 | Biosphere Reserves | 0 | 0 | 0 | 0 | 0 |
| 78 | 10.9 | Forest Parks | 0 | 0 | 0 | 0 | 0 |
| 78 | 10.10 | Marine Conservation Zones | 0 | 0 | 0 | 0 | 0 |
| 78 | 10.11 | Green Belt | 0 | 0 | 0 | 0 | 0 |
| 79 | 10.12 | Proposed Ramsar sites | 0 | 0 | 0 | 0 | 0 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 79 | 10.13 | Possible Special Areas of Conservation (pSAC) | 0 | 0 | 0 | 0 | 0 |
| 79 | 10.14 | Potential Special Protection Areas (pSPA) | 0 | 0 | 0 | 0 | 0 |
| 79 | 10.15 | Nitrate Sensitive Areas | 0 | 0 | 0 | 0 | 0 |
| **80 >** | **10.16 >** | **Nitrate Vulnerable Zones >** | 2 | 0 | 0 | 0 | 2 |
| **81 >** | **10.17 >** | **SSSI Impact Risk Zones >** | 4 | - | - | - | - |
| **84 >** | **10.18 >** | **SSSI Units >** | 0 | 0 | 1 | 0 | 1 |
| Page | Section | **Visual and cultural designations >** | On site | 0-50m | 50-250m | 250-500m | 500-2000m |
| 85 | 11.1 | World Heritage Sites | 0 | 0 | 0 | - | - |
| 86 | 11.2 | Area of Outstanding Natural Beauty | 0 | 0 | 0 | - | - |
| 86 | 11.3 | National Parks | 0 | 0 | 0 | - | - |
| **86 >** | **11.4 >** | **Listed Buildings >** | 0 | 0 | 1 | - | - |
| 87 | 11.5 | Conservation Areas | 0 | 0 | 0 | - | - |
| 87 | 11.6 | Scheduled Ancient Monuments | 0 | 0 | 0 | - | - |
| 87 | 11.7 | Registered Parks and Gardens | 0 | 0 | 0 | - | - |
| Page | Section | **Agricultural designations >** | On site | 0-50m | 50-250m | 250-500m | 500-2000m |
| **88 >** | **12.1 >** | **Agricultural Land Classification >** | Non Agricultural (within 250m) | | | | |
| 89 | 12.2 | Open Access Land | 0 | 0 | 0 | - | - |
| **89 >** | **12.3 >** | **Tree Felling Licences >** | 0 | 0 | 1 | - | - |
| **90 >** | **12.4 >** | **Environmental Stewardship Schemes >** | 2 | 0 | 2 | - | - |
| 90 | 12.5 | Countryside Stewardship Schemes | 0 | 0 | 0 | - | - |
| Page | Section | **Habitat designations >** | On site | 0-50m | 50-250m | 250-500m | 500-2000m |
| **91 >** | **13.1 >** | **Priority Habitat Inventory >** | 8 | 4 | 30 | - | - |
| **93 >** | **13.2 >** | **Habitat Networks >** | 0 | 1 | 0 | - | - |
| 93 | 13.3 | Open Mosaic Habitat | 0 | 0 | 0 | - | - |
| 94 | 13.4 | Limestone Pavement Orders | 0 | 0 | 0 | - | - |
| Page | Section | **Geology 1:10,000 scale >** | On site | 0-50m | 50-250m | 250-500m | 500-2000m |
| **95 >** | **14.1 >** | **10k Availability >** | Identified (within 500m) | | | | |
| **96 >** | **14.2 >** | **Artificial and made ground (10k) >** | 2 | 1 | 4 | 2 | - |
| **98 >** | **14.3 >** | **Superficial geology (10k) >** | 1 | 0 | 0 | 0 | - |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 99 | 14.4 | Landslip (10k) | 0 | 0 | 0 | 0 | - |
| 100 > | 14.5 > | Bedrock geology (10k) > | 2 | 0 | 0 | 0 | - |
| 101 | 14.6 | Bedrock faults and other linear features (10k) | 0 | 0 | 0 | 0 | - |
| Page | Section | Geology 1:50,000 scale > | On site | 0-50m | 50-250m | 250-500m | 500-2000m |
| 102 > | 15.1 > | 50k Availability > | Identified (within 500m) | | | | |
| 103 | 15.2 | Artificial and made ground (50k) | 0 | 0 | 0 | 0 | - |
| 103 | 15.3 | Artificial ground permeability (50k) | 0 | 0 | - | - | - |
| 104 > | 15.4 > | Superficial geology (50k) > | 1 | 0 | 0 | 0 | - |
| 105 > | 15.5 > | Superficial permeability (50k) > | Identified (within 50m) | | | | |
| 105 | 15.6 | Landslip (50k) | 0 | 0 | 0 | 0 | - |
| 105 | 15.7 | Landslip permeability (50k) | None (within 50m) | | | | |
| 106 > | 15.8 > | Bedrock geology (50k) > | 2 | 0 | 0 | 0 | - |
| 107 > | 15.9 > | Bedrock permeability (50k) > | Identified (within 50m) | | | | |
| 107 | 15.10 | Bedrock faults and other linear features (50k) | 0 | 0 | 0 | 0 | - |
| Page | Section | Boreholes > | On site | 0-50m | 50-250m | 250-500m | 500-2000m |
| 108 > | 16.1 > | BGS Boreholes > | 0 | 10 | 31 | - | - |
| Page | Section | Natural ground subsidence > | | | | | |
| 111 > | 17.1 > | Shrink swell clays > | Low (within 50m) | | | | |
| 112 > | 17.2 > | Running sands > | Low (within 50m) | | | | |
| 114 > | 17.3 > | Compressible deposits > | Moderate (within 50m) | | | | |
| 116 > | 17.4 > | Collapsible deposits > | Very low (within 50m) | | | | |
| 117 > | 17.5 > | Landslides > | Very low (within 50m) | | | | |
| 118 > | 17.6 > | Ground dissolution of soluble rocks > | Negligible (within 50m) | | | | |
| Page | Section | Mining and ground workings > | On site | 0-50m | 50-250m | 250-500m | 500-2000m |
| 120 | 18.1 | BritPits | 0 | 0 | 0 | 0 | - |
| 121 > | 18.2 > | Surface ground workings > | 2 | 2 | 1 | - | - |
| 121 | 18.3 | Underground workings | 0 | 0 | 0 | 0 | 0 |
| 121 | 18.4 | Underground mining extents | 0 | 0 | 0 | 0 | - |
| 121 | 18.5 | Historical Mineral Planning Areas | 0 | 0 | 0 | 0 | - |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 122 | 18.6 | Non-coal mining | 0 | 0 | 0 | 0 | 0 |
| 122 | 18.7 | JPB mining areas | None (within 0m) | | | | |
| 122 | 18.8 | The Coal Authority non-coal mining | 0 | 0 | 0 | 0 | - |
| **122 >** | **18.9 >** | **Researched mining >** | 0 | 1 | 0 | 0 | - |
| 123 | 18.10 | Mining record office plans | 0 | 0 | 0 | 0 | - |
| 123 | 18.11 | BGS mine plans | 0 | 0 | 0 | 0 | - |
| 123 | 18.12 | Coal mining | None (within 0m) | | | | |
| 123 | 18.13 | Brine areas | None (within 0m) | | | | |
| 123 | 18.14 | Gypsum areas | None (within 0m) | | | | |
| 124 | 18.15 | Tin mining | None (within 0m) | | | | |
| 124 | 18.16 | Clay mining | None (within 0m) | | | | |
| Page | Section | Ground cavities and sinkholes | On site | 0-50m | 50-250m | 250-500m | 500-2000m |
| 125 | 19.1 | Natural cavities | 0 | 0 | 0 | 0 | - |
| 125 | 19.2 | Mining cavities | 0 | 0 | 0 | 0 | 0 |
| 125 | 19.3 | Reported recent incidents | 0 | 0 | 0 | 0 | - |
| 125 | 19.4 | Historical incidents | 0 | 0 | 0 | 0 | - |
| 126 | 19.5 | National karst database | 0 | 0 | 0 | 0 | - |
| Page | Section | **Radon >** | | | | | |
| **127 >** | **20.1 >** | **Radon >** | Less than 1% (within 0m) | | | | |
| Page | Section | **Soil chemistry >** | On site | 0-50m | 50-250m | 250-500m | 500-2000m |
| **129 >** | **21.1 >** | **BGS Estimated Background Soil Chemistry >** | 22 | 7 | - | - | - |
| 131 | 21.2 | BGS Estimated Urban Soil Chemistry | 0 | 0 | - | - | - |
| 131 | 21.3 | BGS Measured Urban Soil Chemistry | 0 | 0 | - | - | - |
| Page | Section | Railway infrastructure and projects | On site | 0-50m | 50-250m | 250-500m | 500-2000m |
| 132 | 22.1 | Underground railways (London) | 0 | 0 | 0 | - | - |
| 132 | 22.2 | Underground railways (Non-London) | 0 | 0 | 0 | - | - |
| 132 | 22.3 | Railway tunnels | 0 | 0 | 0 | - | - |
| 132 | 22.4 | Historical railway and tunnel features | 0 | 0 | 0 | - | - |
| 132 | 22.5 | Royal Mail tunnels | 0 | 0 | 0 | - | - |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 133 | 22.6 | Historical railways | 0 | 0 | 0 | - | - |
| 133 | 22.7 | Railways | 0 | 0 | 0 | - | - |
| 133 | 22.8 | Crossrail 1 | 0 | 0 | 0 | 0 | - |
| 133 | 22.9 | Crossrail 2 | 0 | 0 | 0 | 0 | - |
| 133 | 22.10 | HS2 | 0 | 0 | 0 | 0 | - |

## Recent aerial photograph

Capture Date: 30/04/2022

Site Area: 57.66ha

## Recent site history - 2019 aerial photograph

Capture Date: 29/06/2019

Site Area: 57.66ha

## Recent site history - 2010 aerial photograph

Capture Date: 25/09/2010

Site Area: 57.66ha

## Recent site history - 2005 aerial photograph

Capture Date: 12/07/2005

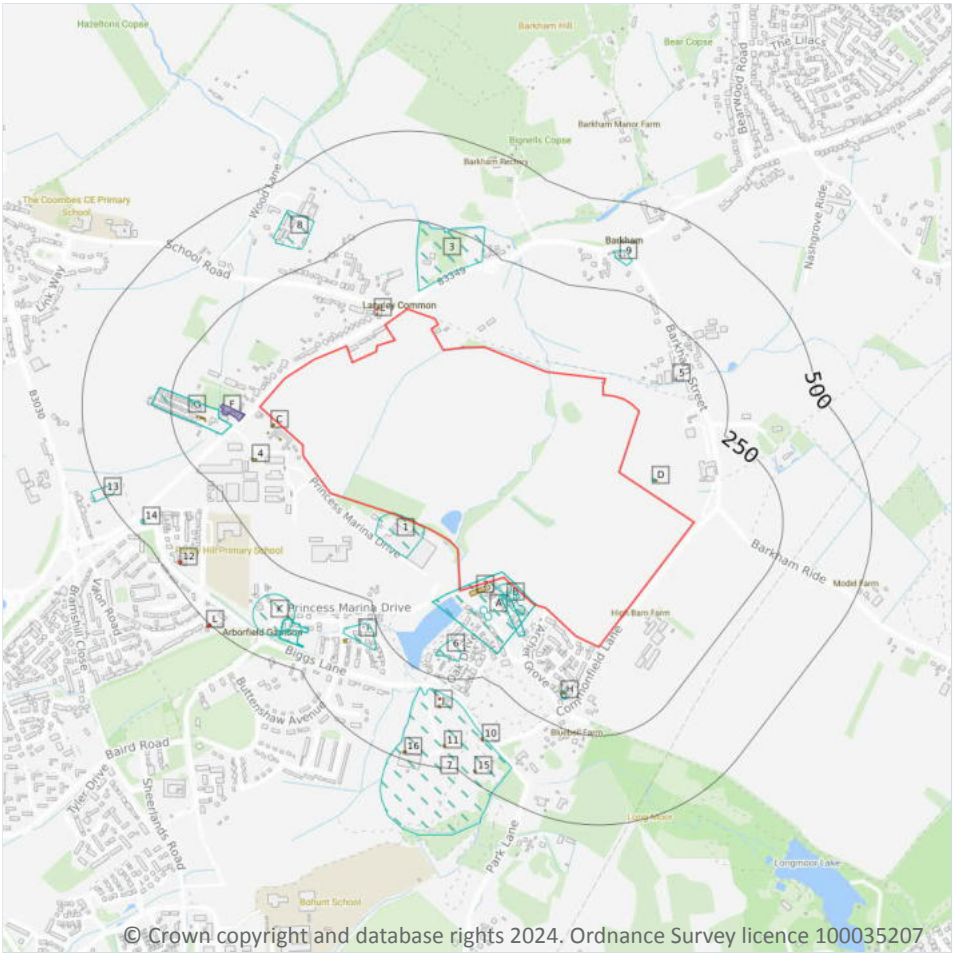
Site Area: 57.66ha

## Recent site history - 1999 aerial photograph

Capture Date: 04/09/1999

Site Area: 57.66ha

# 1 Past land use




Site Outline

Search buffers in metres (m)

- Historical industrial land uses
- Historical tanks
- Historical energy features
- Historical garages

## 1.1 Historical industrial land uses

| Records within 500m | 25 |
|---|---|

Potentially contaminative land use features digitised from historical Ordnance Survey mapping at 1:10,000 and 1:10,560 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. 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 map on **page 14 >**

| ID | Location | Land use | Dates present | Group ID |
|---|---|---|---|---|
| **1** | **On site** | **Unspecified Heap** | **1988** | **1869654** |

| ID | Location | Land use | Dates present | Group ID |
|---|---|---|---|---|
| **A** | **On site** | **Unspecified Works** | **1961** | **1860401** |
| **A** | **On site** | **Disused Sewage Works** | **1969** | **1872208** |
| B | 4m S | Unspecified Tanks | 1961 - 1969 | 1955296 |
| B | 4m S | Unspecified Tanks | 1961 | 1870900 |
| B | 26m S | Rifle Range | 1988 | 1923994 |
| B | 26m S | Rifle Range | 1978 | 1962096 |
| D | 33m E | Unspecified Tank | 1910 | 1943539 |
| D | 34m E | Unspecified Tank | 1961 | 1887542 |
| D | 36m E | Unspecified Tank | 1932 - 1938 | 1929147 |
| 3 | 58m N | Nursery | 1969 | 1867831 |
| A | 61m S | Unspecified Tanks | 1961 - 1969 | 1900892 |
| G | 94m W | Unspecified Depot | 1988 | 1890878 |
| G | 94m W | Unspecified Depot | 1978 | 1953412 |
| 6 | 141m S | Unspecified Heap | 1988 | 1869655 |
| H | 152m S | Unspecified Tanks | 1932 - 1938 | 1961653 |
| I | 271m SW | Unspecified Heap | 1988 | 1869657 |
| 7 | 287m S | Barracks | 1969 - 1978 | 1946287 |
| 8 | 300m NW | Nursery | 1969 - 1978 | 1937047 |
| K | 319m SW | Unspecified Tank | 1932 - 1938 | 1928881 |
| 9 | 323m NE | Smithy | 1910 | 1875976 |
| K | 367m SW | Filter Beds | 1938 | 1933731 |
| K | 370m SW | Filter Beds | 1932 | 1889897 |
| 13 | 452m W | Brick Kiln | 1898 | 1859646 |
| 14 | 455m W | Unspecified Tank | 1961 | 1858206 |

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

## 1.2 Historical tanks

| Records within 500m | 20 |
|---|---|

Tank features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. 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 map on **page 14 >**

| ID | Location | Land use | Dates present | Group ID |
|---|---|---|---|---|
| 2 | 6m S | Settling Tanks | 1967 | 309223 |
| C | 10m W | Unspecified Tank | 1967 - 1996 | 312975 |
| C | 10m W | Unspecified Tank | 1978 - 1987 | 322407 |
| C | 28m W | Unspecified Tank | 1933 | 305644 |
| D | 35m E | Unspecified Tank | 1967 - 1997 | 321830 |
| D | 37m E | Unspecified Tank | 1911 - 1933 | 314261 |
| C | 38m W | Unspecified Tank | 1996 | 305645 |
| 4 | 115m W | Tanks | 1967 - 1978 | 327298 |
| 5 | 136m NE | Unspecified Tank | 1997 | 305627 |
| H | 155m S | Tanks | 1933 | 310526 |
| G | 156m W | Unspecified Tank | 1967 | 305646 |
| G | 157m W | Tanks | 1967 | 310524 |
| G | 175m W | Unspecified Tank | 1967 | 305647 |
| J | 326m S | Unspecified Tank | 1967 - 1975 | 326990 |
| I | 347m SW | Unspecified Tank | 1967 - 1993 | 319933 |
| K | 363m SW | Unspecified Tank | 1933 | 305643 |
| 10 | 388m S | Unspecified Tank | 1967 - 1975 | 328207 |
| 11 | 435m S | Unspecified Tank | 1967 - 1975 | 318968 |
| 15 | 470m S | Unspecified Tank | 1967 - 1975 | 315253 |
| 16 | 475m S | Unspecified Tank | 1967 - 1975 | 320743 |

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

## 1.3 Historical energy features

| Records within 500m | 6 |
|---|---|

Energy features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. 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 map on **page 14 >**

| ID | Location | Land use | Dates present | Group ID |
|---|---|---|---|---|
| E | 37m NW | Electricity Substation | 1987 | 189556 |
| E | 46m NW | Electricity Substation | 1993 | 189555 |
| J | 306m S | Electricity Substation | 1975 | 189553 |
| 12 | 450m W | Electricity Substation | 1978 | 189554 |
| L | 499m SW | Electricity Substation | - | 187729 |
| L | 499m SW | Electricity Substation | 1975 - 1999 | 202816 |

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

## 1.4 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, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. 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.*

## 1.5 Historical garages

| Records within 500m | 3 |
|---|---|

Garages digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. 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 map on **page 14 >**

| ID | Location | Land use | Dates present | Group ID |
|---|---|---|---|---|
| F | 47m W | Garage | 1967 | 61051 |
| F | 47m W | Garage | 1993 - 1996 | 64926 |
| F | 49m W | Garage | 1978 - 1987 | 65167 |

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

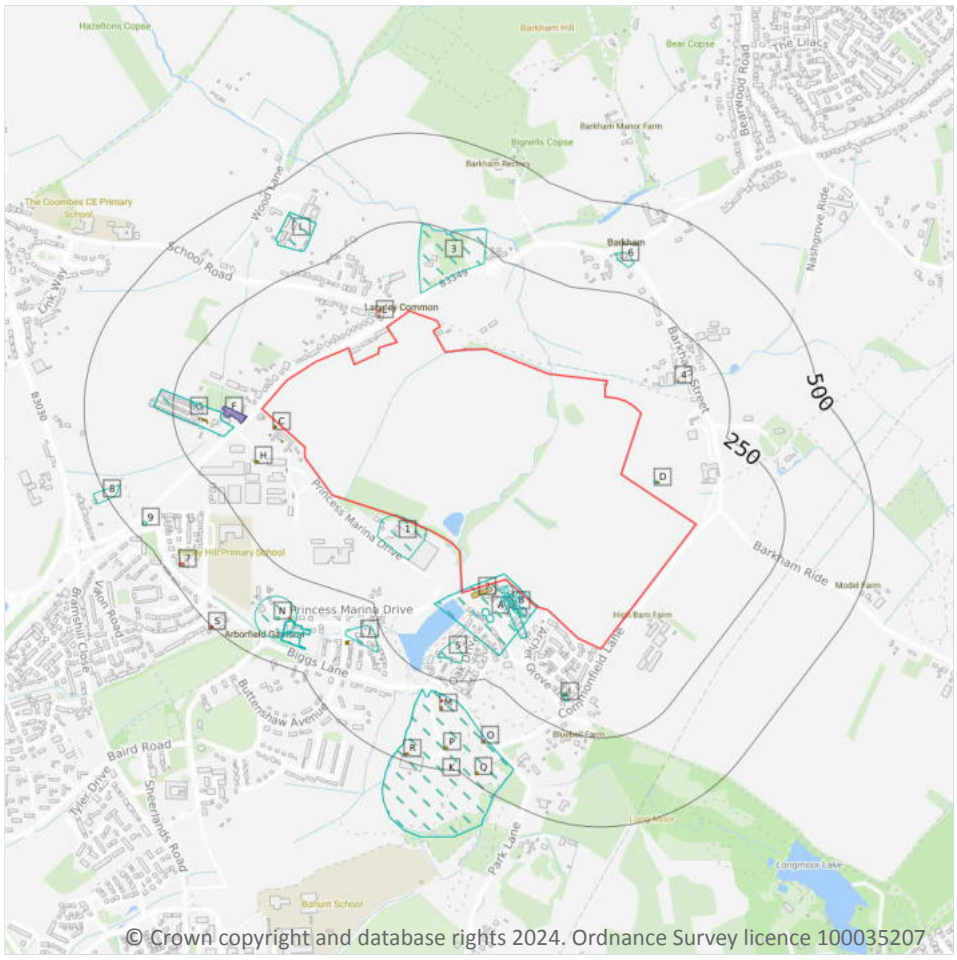
## 1.6 Historical military land

| **Records within 500m** | **0** |
|---|---|

Areas of military land digitised from multiple sources including the National Archives, local records, MOD records and verified other sources, intelligently grouped into contiguous features.

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

# 2 Past land use - un-grouped




Site Outline

Search buffers in metres (m)

- Historical industrial land uses
- Historical tanks
- Historical energy features
- Historical garages

## 2.1 Historical industrial land uses

| Records within 500m | 33 |
|---|---|

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 19 >**

| ID | Location | Land Use | Date | Group ID |
|---|---|---|---|---|
| **1** | **On site** | **Unspecified Heap** | **1988** | **1869654** |
| **A** | **On site** | **Disused Sewage Works** | **1969** | **1872208** |
| **A** | **On site** | **Unspecified Works** | **1961** | **1860401** |

| ID | Location | Land Use | Date | Group ID |
|---|---|---|---|---|
| B | 4m S | Unspecified Tanks | 1969 | 1955296 |
| B | 4m S | Unspecified Tanks | 1961 | 1870900 |
| B | 16m S | Unspecified Tanks | 1961 | 1955296 |
| B | 26m S | Rifle Range | 1988 | 1923994 |
| B | 26m S | Rifle Range | 1978 | 1962096 |
| D | 33m E | Unspecified Tank | 1910 | 1943539 |
| D | 34m E | Unspecified Tank | 1961 | 1887542 |
| D | 36m E | Unspecified Tank | 1932 | 1929147 |
| D | 37m E | Unspecified Tank | 1938 | 1929147 |
| 3 | 58m N | Nursery | 1969 | 1867831 |
| A | 61m S | Unspecified Tanks | 1969 | 1900892 |
| A | 61m S | Unspecified Tanks | 1961 | 1900892 |
| G | 94m W | Unspecified Depot | 1988 | 1890878 |
| G | 94m W | Unspecified Depot | 1978 | 1953412 |
| 5 | 141m S | Unspecified Heap | 1988 | 1869655 |
| I | 152m S | Unspecified Tanks | 1938 | 1961653 |
| I | 157m S | Unspecified Tanks | 1932 | 1961653 |
| J | 271m SW | Unspecified Heap | 1988 | 1869657 |
| K | 287m S | Barracks | 1969 | 1946287 |
| K | 287m S | Barracks | 1978 | 1946287 |
| L | 300m NW | Nursery | 1969 | 1937047 |
| L | 300m NW | Nursery | 1978 | 1937047 |
| N | 319m SW | Unspecified Tank | 1938 | 1928881 |
| 6 | 323m NE | Smithy | 1910 | 1875976 |
| N | 367m SW | Filter Beds | 1938 | 1933731 |
| N | 370m SW | Filter Beds | 1932 | 1889897 |
| N | 370m SW | Filter Beds | 1932 | 1889897 |
| N | 373m SW | Unspecified Tank | 1932 | 1928881 |

| ID | Location | Land Use | Date | Group ID |
|---|---|---|---|---|
| 8 | 452m W | Brick Kiln | 1898 | 1859646 |
| 9 | 455m W | Unspecified Tank | 1961 | 1858206 |

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

## 2.2 Historical tanks

| **Records within 500m** | **37** |
|---|---|

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'.

Features are displayed on the Past land use - un-grouped map on **page 19 >**

| ID | Location | Land Use | Date | Group ID |
|---|---|---|---|---|
| 2 | 6m S | Settling Tanks | 1967 | 309223 |
| C | 10m W | Unspecified Tank | 1967 | 312975 |
| C | 10m W | Unspecified Tank | 1978 | 322407 |
| C | 10m W | Unspecified Tank | 1987 | 322407 |
| C | 11m W | Unspecified Tank | 1996 | 312975 |
| C | 11m W | Unspecified Tank | 1993 | 312975 |
| C | 11m W | Unspecified Tank | 1993 | 312975 |
| C | 11m W | Unspecified Tank | 1987 | 312975 |
| C | 28m W | Unspecified Tank | 1933 | 305644 |
| D | 35m E | Unspecified Tank | 1997 | 321830 |
| D | 36m E | Unspecified Tank | 1967 | 321830 |
| D | 37m E | Unspecified Tank | 1911 | 314261 |
| D | 37m E | Unspecified Tank | 1933 | 314261 |
| C | 38m W | Unspecified Tank | 1996 | 305645 |
| H | 115m W | Tanks | 1967 | 327298 |
| H | 116m W | Tanks | 1978 | 327298 |
| 4 | 136m NE | Unspecified Tank | 1997 | 305627 |
| I | 155m S | Tanks | 1933 | 310526 |

| ID | Location | Land Use | Date | Group ID |
|---|---|---|---|---|
| G | 156m W | Unspecified Tank | 1967 | 305646 |
| G | 157m W | Tanks | 1967 | 310524 |
| G | 175m W | Unspecified Tank | 1967 | 305647 |
| M | 326m S | Unspecified Tank | 1975 | 326990 |
| M | 326m S | Unspecified Tank | 1967 | 326990 |
| J | 347m SW | Unspecified Tank | 1993 | 319933 |
| J | 347m SW | Unspecified Tank | 1993 | 319933 |
| J | 348m SW | Unspecified Tank | 1975 | 319933 |
| J | 348m SW | Unspecified Tank | 1967 | 319933 |
| J | 350m SW | Unspecified Tank | 1987 | 319933 |
| N | 363m SW | Unspecified Tank | 1933 | 305643 |
| O | 388m S | Unspecified Tank | 1975 | 328207 |
| O | 388m S | Unspecified Tank | 1967 | 328207 |
| P | 435m S | Unspecified Tank | 1975 | 318968 |
| P | 435m S | Unspecified Tank | 1967 | 318968 |
| Q | 470m S | Unspecified Tank | 1975 | 315253 |
| Q | 470m S | Unspecified Tank | 1967 | 315253 |
| R | 475m S | Unspecified Tank | 1967 | 320743 |
| R | 475m S | Unspecified Tank | 1975 | 320743 |

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

## 2.3 Historical energy features

| Records within 500m | 6 |
|---|---|

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'.

Features are displayed on the Past land use - un-grouped map on **page 19 >**

| ID | Location | Land Use | Date | Group ID |
|---|---|---|---|---|
| E | 37m NW | Electricity Substation | 1987 | 189556 |

| ID | Location | Land Use | Date | Group ID |
|---|---|---|---|---|
| E | 46m NW | Electricity Substation | 1993 | 189555 |
| M | 306m S | Electricity Substation | 1975 | 189553 |
| 7 | 450m W | Electricity Substation | 1978 | 189554 |
| S | 499m SW | Electricity Substation | - | 187729 |
| S | 499m SW | Electricity Substation | 1975 | 202816 |

*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 | 6 |
|---|---|

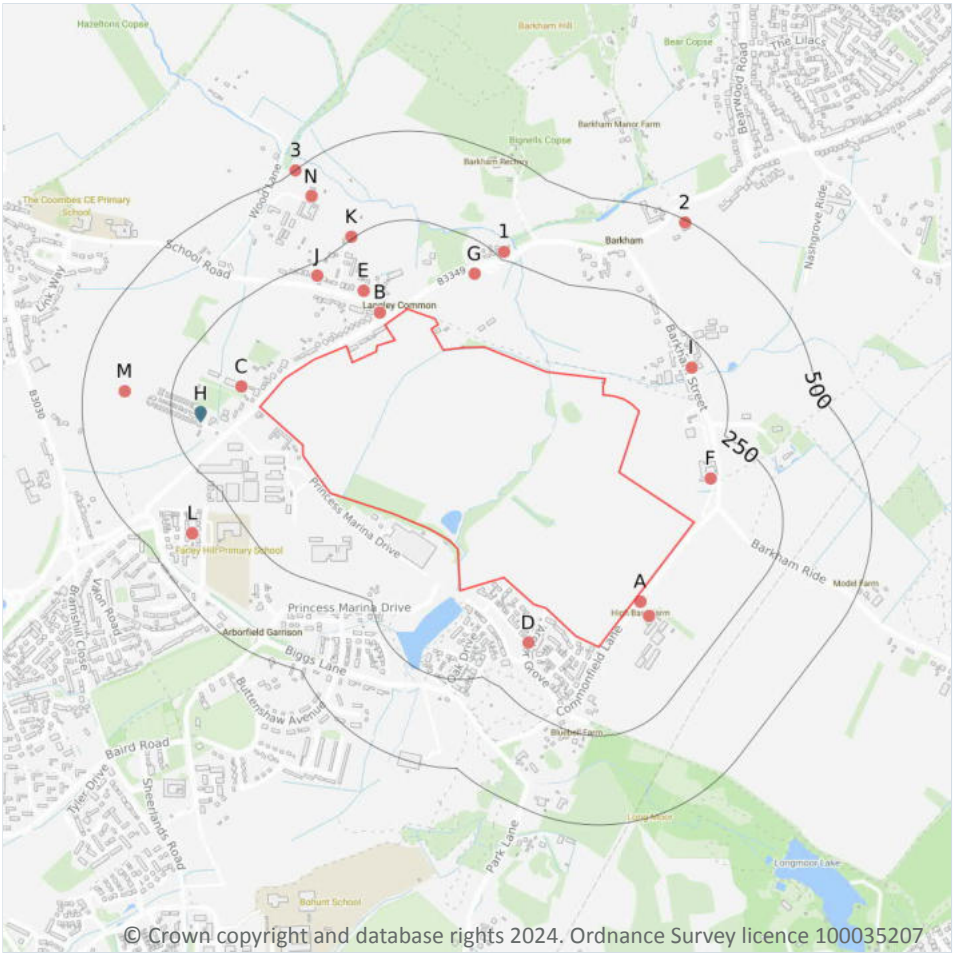
Garages digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on **page 19 >**

| ID | Location | Land Use | Date | Group ID |
|---|---|---|---|---|
| F | 47m W | Garage | 1967 | 61051 |
| F | 47m W | Garage | 1996 | 64926 |
| F | 47m W | Garage | 1993 | 64926 |
| F | 47m W | Garage | 1993 | 64926 |
| F | 49m W | Garage | 1978 | 65167 |
| F | 49m W | Garage | 1987 | 65167 |

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

# 3 Waste and landfill




Site Outline

Search buffers in metres (m)

Licensed waste sites

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 | 2 |
|---|---|

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

Features are displayed on the Waste and landfill map on **page 24 >**

| ID | Location | Details | | |
|---|---|---|---|---|
| H | 168m W | Site Name: Lanstar, Langley Common Rd, Barkham Rg40<br>Site Address: Lanstar Ltd, 64, Langley Common Rd, Barkham, Wokingham, Berkshire, RG40 4TS<br>Correspondence Address: - | Type of Site: Special Waste Transfer Station<br>Size: 25000 tonnes<br>Environmental Permitting Regulations (Waste) Licence Number: LAN004<br>EPR reference: EA/EPR/DP3593EZ/S003<br>Operator: Lanstar Ltd<br>Waste Management licence No: 83151<br>Annual Tonnage: 50000 | Issue Date: 29/03/1995<br>Effective Date: -<br>Modified: -<br>Surrendered Date: Oct 27 1999 12:00AM<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Surrendered |

| ID | Location | Details | | |
|---|---|---|---|---|
| H | 168m W | Site Name: Lanstar, Langley Common Rd, Barkham Rg40<br>Site Address: 64, Langley Common Rd, Barkham, Wokingham, Berkshire, RG40 4TS<br>Correspondence Address: - | Type of Site: Special Waste Transfer Station<br>Size: >= 25000 tonnes 75000 tonnes<br>Environmental Permitting Regulations (Waste) Licence Number: 646073<br>EPR reference: EA/EPR/DP3593EZ<br>Operator: Lanstar Limited<br>Waste Management licence No: 83151<br>Annual Tonnage: 50000 | Issue Date: 29/03/1995<br>Effective Date: 29/03/1995<br>Modified: -<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Surrendered |

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

## 3.7 Waste exemptions

| Records within 500m | 137 |
|---|---|

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 24 >**

| ID | Location | Site | Reference | Category | Sub-Category | Description |
|---|---|---|---|---|---|---|
| A | 15m SE | - | WEX326295 | Using waste exemption | On a farm | Use of waste in construction |
| A | 15m SE | - | WEX326295 | Using waste exemption | On a farm | Spreading of plant matter to confer benefit |
| A | 15m SE | - | WEX326295 | Using waste exemption | On a farm | Spreading waste on agricultural land to confer benefit |
| A | 15m SE | - | WEX326295 | Disposing of waste exemption | On a farm | Burning waste in the open |
| A | 15m SE | - | WEX193988 | Using waste exemption | On a Farm | Use of waste in construction |
| A | 15m SE | - | WEX193988 | Using waste exemption | On a Farm | Spreading of plant matter to confer benefit |
| A | 15m SE | Highbarn Farm Commonfield Lane WOKINGHAM Berkshire RG40 4PR | EPR/FH0179NG/A001 | Using waste exemption | Agricultural Waste Only | Use of waste in construction |

| ID | Location | Site | Reference | Category | Sub-Category | Description |
|---|---|---|---|---|---|---|
| A | 15m SE | Highbarn Farm Commonfield Lane WOKINGHAM Berkshire RG40 4PR | EPR/FH0179NG/A001 | Using waste exemption | Agricultural Waste Only | Spreading of plant matter to confer benefit |
| A | 15m SE | - | WEX193988 | Using waste exemption | On a Farm | Spreading waste on agricultural land to confer benefit |
| A | 15m SE | - | WEX193988 | Disposing of waste exemption | On a Farm | Burning waste in the open |
| A | 15m SE | Highbarn Farm Commonfield Lane WOKINGHAM Berkshire RG40 4PR | EPR/FH0179NG/A001 | Disposing of waste exemption | Agricultural Waste Only | Burning waste in the open |
| B | 37m NW | Field Farm, Langley Common Road, Barkham, Wokingham, RG40 4TS | WEX297042 | Disposing of waste exemption | On a Farm | Deposit of waste from dredging of inland waters |
| B | 37m NW | Field Farm, Langley Common Road, Barkham, Wokingham, RG40 4TS | WEX297042 | Treating waste exemption | On a Farm | Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising |
| B | 37m NW | Field Farm, Langley Common Road, Barkham, Wokingham, RG40 4TS | WEX297042 | Using waste exemption | On a Farm | Spreading waste on non-agricultural land to confer benefit |
| B | 37m NW | Field Farm, Langley Common Road, Barkham, Wokingham, RG40 4TS | WEX297042 | Using waste exemption | On a Farm | Use of waste for a specified purpose |
| B | 37m NW | Field Farm, Langley Common Road, Barkham, Wokingham, RG40 4TS | WEX297042 | Using waste exemption | On a Farm | Use of waste in construction |
| B | 37m NW | Field Farm, Langley Common Road, Barkham, Wokingham, RG40 4TS | WEX297042 | Disposing of waste exemption | On a Farm | Burning waste in the open |
| B | 37m NW | Field Farm, Langley Common Road, Barkham, Wokingham, RG40 4TS | WEX297042 | Using waste exemption | On a Farm | Spreading waste on agricultural land to confer benefit |
| A | 59m SE | HIGHBARN FARM, COMMONFIELD LANE, BARKHAM, WOKINGHAM, RG40 4PR | WEX130576 | Using waste exemption | On a farm | Use of waste for a specified purpose |

| ID | Location | Site | Reference | Category | Sub-Category | Description |
|---|---|---|---|---|---|---|
| A | 59m SE | HIGHBARN FARM, COMMONFIELD LANE, BARKHAM, WOKINGHAM, RG40 4PR | WEX038999 | Using waste exemption | On a farm | Use of waste in construction |
| A | 59m SE | HIGHBARN FARM, COMMONFIELD LANE, BARKHAM, WOKINGHAM, RG40 4PR | WEX038999 | Using waste exemption | On a farm | Spreading of plant matter to confer benefit |
| A | 59m SE | HIGHBARN FARM, COMMONFIELD LANE, BARKHAM, WOKINGHAM, RG40 4PR | WEX038999 | Disposing of waste exemption | On a farm | Burning waste in the open |
| A | 59m SE | HIGHBARN FARM, COMMONFIELD LANE, BARKHAM, WOKINGHAM, RG40 4PR | WEX038999 | Using waste exemption | On a farm | Spreading waste on agricultural land to confer benefit |
| C | 77m W | Field Farm, Langley Common Road, Barkham, Wokingham, RG40 4TS | WEX158232 | Using waste exemption | On a Farm | Use of waste in construction |
| C | 77m W | Field Farm, Langley Common Road, Barkham, Wokingham, RG40 4TS | WEX158232 | Treating waste exemption | On a Farm | Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising |
| C | 77m W | Field Farm, Langley Common Road, Barkham, Wokingham, RG40 4TS | WEX158232 | Using waste exemption | On a Farm | Spreading waste on non-agricultural land to confer benefit |
| C | 77m W | Field Farm, Langley Common Road, Barkham, Wokingham, RG40 4TS | WEX158232 | Using waste exemption | On a Farm | Use of waste for a specified purpose |
| C | 77m W | Field Farm, Langley Common Road, Barkham, Wokingham, RG40 4TS | WEX158232 | Disposing of waste exemption | On a Farm | Deposit of waste from dredging of inland waters |
| C | 77m W | Field Farm, Langley Common Road, Barkham, Wokingham, RG40 4TS | WEX158232 | Using waste exemption | On a Farm | Spreading waste on agricultural land to confer benefit |
| C | 77m W | Field Farm, Langley Common Road, Barkham, Wokingham, RG40 4TS | WEX158232 | Disposing of waste exemption | On a Farm | Burning waste in the open |
| D | 107m S | - | WEX156524 | Using waste exemption | Not on a Farm | Use of waste in construction |
| D | 107m S | - | WEX156524 | Treating waste exemption | Not on a Farm | Screening and blending of waste |

| ID | Location | Site | Reference | Category | Sub-Category | Description |
|---|---|---|---|---|---|---|
| E | 114m NW | HANDPOST FARM, SCHOOL ROAD, BARKHAM, WOKINGHAM, RG41 4TN | WEX158113 | Using waste exemption | On a Farm | Spreading of plant matter to confer benefit |
| E | 114m NW | HANDPOST FARM, SCHOOL ROAD, BARKHAM, WOKINGHAM, RG41 4TN | WEX158113 | Using waste exemption | On a Farm | Use of waste in construction |
| E | 114m NW | HANDPOST FARM, SCHOOL ROAD, BARKHAM, WOKINGHAM, RG41 4TN | WEX158113 | Disposing of waste exemption | On a Farm | Deposit of waste from dredging of inland waters |
| E | 114m NW | HANDPOST FARM, SCHOOL ROAD, BARKHAM, WOKINGHAM, RG41 4TN | WEX158113 | Using waste exemption | On a Farm | Use of waste for a specified purpose |
| E | 114m NW | HANDPOST FARM, SCHOOL ROAD, BARKHAM, WOKINGHAM, RG41 4TN | WEX158113 | Treating waste exemption | On a Farm | Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising |
| E | 114m NW | HANDPOST FARM, SCHOOL ROAD, BARKHAM, WOKINGHAM, RG41 4TN | WEX158113 | Using waste exemption | On a Farm | Spreading waste on agricultural land to confer benefit |
| E | 114m NW | HANDPOST FARM, SCHOOL ROAD, BARKHAM, WOKINGHAM, RG41 4TN | WEX158113 | Disposing of waste exemption | On a Farm | Burning waste in the open |
| F | 126m E | BARKHAM SQUARE, BARKHAM STREET, BARKHAM, WOKINGHAM, RG40 4PN | WEX304136 | Disposing of waste exemption | On a farm | Deposit of waste from dredging of inland waters |
| F | 126m E | BARKHAM SQUARE, BARKHAM STREET, BARKHAM, WOKINGHAM, RG40 4PN | WEX304136 | Treating waste exemption | On a farm | Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising |
| F | 126m E | BARKHAM SQUARE, BARKHAM STREET, BARKHAM, WOKINGHAM, RG40 4PN | WEX304136 | Using waste exemption | On a farm | Spreading of plant matter to confer benefit |
| F | 126m E | BARKHAM SQUARE, BARKHAM STREET, BARKHAM, WOKINGHAM, RG40 4PN | WEX304136 | Using waste exemption | On a farm | Use of waste for a specified purpose |
| F | 126m E | BARKHAM SQUARE, BARKHAM STREET, BARKHAM, WOKINGHAM, RG40 4PN | WEX304136 | Using waste exemption | On a farm | Use of waste in construction |

| ID | Location | Site | Reference | Category | Sub-Category | Description |
|---|---|---|---|---|---|---|
| F | 126m E | BARKHAM SQUARE, BARKHAM STREET, BARKHAM, WOKINGHAM, RG40 4PN | WEX304136 | Disposing of waste exemption | On a farm | Burning waste in the open |
| F | 126m E | BARKHAM SQUARE, BARKHAM STREET, BARKHAM, WOKINGHAM, RG40 4PN | WEX304136 | Using waste exemption | On a farm | Spreading waste on agricultural land to confer benefit |
| F | 126m E | BARKHAM SQUARE, BARKHAM STREET, BARKHAM, WOKINGHAM, RG40 4PN | WEX168376 | Using waste exemption | On a farm | Use of waste for a specified purpose |
| F | 126m E | BARKHAM SQUARE, BARKHAM STREET, BARKHAM, WOKINGHAM, RG40 4PN | WEX168376 | Disposing of waste exemption | On a farm | Deposit of waste from dredging of inland waters |
| F | 126m E | BARKHAM SQUARE, BARKHAM STREET, BARKHAM, WOKINGHAM, RG40 4PN | WEX168376 | Using waste exemption | On a farm | Use of waste in construction |
| F | 126m E | BARKHAM SQUARE, BARKHAM STREET, BARKHAM, WOKINGHAM, RG40 4PN | WEX168376 | Using waste exemption | On a farm | Spreading of plant matter to confer benefit |
| F | 126m E | BARKHAM SQUARE, BARKHAM STREET, BARKHAM, WOKINGHAM, RG40 4PN | WEX168376 | Treating waste exemption | On a farm | Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising |
| F | 126m E | BARKHAM SQUARE, BARKHAM STREET, BARKHAM, WOKINGHAM, RG40 4PN | WEX138625 | Using waste exemption | On a farm | Use of waste for a specified purpose |
| F | 126m E | BARKHAM SQUARE, BARKHAM STREET, BARKHAM, WOKINGHAM, RG40 4PN | WEX138625 | Using waste exemption | On a farm | Use of waste in construction |
| F | 126m E | BARKHAM SQUARE FARM, BARKHAM STREET, BARKHAM, WOKINGHAM, RG40 4PN | WEX000962 | Disposing of waste exemption | On a farm | Deposit of waste from dredging of inland waters |

| ID | Location | Site | Reference | Category | Sub-Category | Description |
|---|---|---|---|---|---|---|
| F | 126m E | BARKHAM SQUARE FARM, BARKHAM STREET, BARKHAM, WOKINGHAM, RG40 4PN | WEX000962 | Treating waste exemption | On a farm | Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising |
| F | 126m E | BARKHAM SQUARE FARM, BARKHAM STREET, BARKHAM, WOKINGHAM, RG40 4PN | WEX000962 | Using waste exemption | On a farm | Spreading of plant matter to confer benefit |
| F | 126m E | BARKHAM SQUARE FARM, BARKHAM STREET, BARKHAM, WOKINGHAM, RG40 4PN | WEX000962 | Using waste exemption | On a farm | Use of waste for a specified purpose |
| F | 126m E | BARKHAM SQUARE, BARKHAM STREET, BARKHAM, WOKINGHAM, RG40 4PN | WEX168376 | Using waste exemption | On a farm | Spreading waste on agricultural land to confer benefit |
| F | 126m E | BARKHAM SQUARE, BARKHAM STREET, BARKHAM, WOKINGHAM, RG40 4PN | WEX168376 | Disposing of waste exemption | On a farm | Burning waste in the open |
| F | 126m E | BARKHAM SQUARE FARM, BARKHAM STREET, BARKHAM, WOKINGHAM, RG40 4PN | WEX000962 | Disposing of waste exemption | On a farm | Burning waste in the open |
| F | 126m E | BARKHAM SQUARE FARM, BARKHAM STREET, BARKHAM, WOKINGHAM, RG40 4PN | WEX000962 | Using waste exemption | On a farm | Spreading waste on agricultural land to confer benefit |
| G | 166m N | - | WEX276478 | Using waste exemption | Not on a farm | Use of waste in construction |
| G | 167m N | - | WEX249555 | Using waste exemption | Not on a farm | Use of waste in construction |
| I | 190m NE | BROOK HOUSE, BARKHAM STREET, BARKHAM, WOKINGHAM, RG40 4PH | WEX298930 | Disposing of waste exemption | On a Farm | Deposit of waste from dredging of inland waters |
| I | 190m NE | BROOK HOUSE, BARKHAM STREET, BARKHAM, WOKINGHAM, RG40 4PH | WEX298930 | Treating waste exemption | On a Farm | Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising |
| I | 190m NE | BROOK HOUSE, BARKHAM STREET, BARKHAM, WOKINGHAM, RG40 4PH | WEX298930 | Using waste exemption | On a Farm | Spreading of plant matter to confer benefit |

| ID | Location | Site | Reference | Category | Sub-Category | Description |
|---|---|---|---|---|---|---|
| I | 190m NE | BROOK HOUSE, BARKHAM STREET, BARKHAM, WOKINGHAM, RG40 4PH | WEX298930 | Using waste exemption | On a Farm | Use of waste for a specified purpose |
| I | 190m NE | BROOK HOUSE, BARKHAM STREET, BARKHAM, WOKINGHAM, RG40 4PH | WEX298930 | Using waste exemption | On a Farm | Use of waste in construction |
| I | 190m NE | BROOK HOUSE, BARKHAM STREET, BARKHAM, WOKINGHAM, RG40 4PH | WEX298930 | Disposing of waste exemption | On a Farm | Burning waste in the open |
| I | 190m NE | BROOK HOUSE, BARKHAM STREET, BARKHAM, WOKINGHAM, RG40 4PH | WEX298930 | Using waste exemption | On a Farm | Spreading waste on agricultural land to confer benefit |
| I | 190m NE | BROOK HOUSE, BARKHAM STREET, BARKHAM, WOKINGHAM, RG40 4PH | WEX164098 | Using waste exemption | On a Farm | Use of waste in construction |
| I | 190m NE | BROOK HOUSE, BARKHAM STREET, BARKHAM, WOKINGHAM, RG40 4PH | WEX164098 | Treating waste exemption | On a Farm | Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising |
| I | 190m NE | BROOK HOUSE, BARKHAM STREET, BARKHAM, WOKINGHAM, RG40 4PH | WEX164098 | Disposing of waste exemption | On a Farm | Deposit of waste from dredging of inland waters |
| I | 190m NE | BROOK HOUSE, BARKHAM STREET, BARKHAM, WOKINGHAM, RG40 4PH | WEX164098 | Using waste exemption | On a Farm | Spreading of plant matter to confer benefit |
| I | 190m NE | BROOK HOUSE, BARKHAM STREET, BARKHAM, WOKINGHAM, RG40 4PH | WEX164098 | Using waste exemption | On a Farm | Use of waste for a specified purpose |
| I | 190m NE | BROOK HOUSE, BARKHAM STREET, BARKHAM, WOKINGHAM, RG40 4PH | WEX164098 | Disposing of waste exemption | On a Farm | Burning waste in the open |
| I | 190m NE | BROOK HOUSE, BARKHAM STREET, BARKHAM, WOKINGHAM, RG40 4PH | WEX164098 | Using waste exemption | On a Farm | Spreading waste on agricultural land to confer benefit |
| J | 213m NW | Handpost Farm School Road WOKINGHAM Berkshire RG41 4TN | EPR/ZH0013RF /A001 | Disposing of waste exemption | Agricultural Waste Only | Deposit of waste from dredging of inland waters |
| J | 213m NW | Handpost Farm School Road WOKINGHAM Berkshire RG41 4TN | EPR/ZH0013RF /A001 | Treating waste exemption | Agricultural Waste Only | Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising |

| ID | Location | Site | Reference | Category | Sub-Category | Description |
|---|---|---|---|---|---|---|
| J | 213m NW | Handpost Farm School Road WOKINGHAM Berkshire RG41 4TN | EPR/ZH0013RF /A001 | Using waste exemption | Agricultural Waste Only | Spreading of plant matter to confer benefit |
| J | 213m NW | Handpost Farm School Road WOKINGHAM Berkshire RG41 4TN | EPR/ZH0013RF /A001 | Using waste exemption | Agricultural Waste Only | Use of waste for a specified purpose |
| J | 213m NW | Handpost Farm School Road WOKINGHAM Berkshire RG41 4TN | EPR/ZH0013RF /A001 | Disposing of waste exemption | Agricultural Waste Only | Burning waste in the open |
| J | 213m NW | Handpost Farm School Road WOKINGHAM Berkshire RG41 4TN | EPR/ZH0013RF /A001 | Using waste exemption | Agricultural Waste Only | Spreading waste on agricultural land to confer benefit |
| K | 256m NW | WILLOW FARM, SCHOOL ROAD, BARKHAM, WOKINGHAM, RG41 4TN | WEX300062 | Disposing of waste exemption | On a Farm | Deposit of waste from dredging of inland waters |
| K | 256m NW | WILLOW FARM, SCHOOL ROAD, BARKHAM, WOKINGHAM, RG41 4TN | WEX300062 | Treating waste exemption | On a Farm | Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising |
| K | 256m NW | WILLOW FARM, SCHOOL ROAD, BARKHAM, WOKINGHAM, RG41 4TN | WEX300062 | Using waste exemption | On a Farm | Spreading of plant matter to confer benefit |
| K | 256m NW | WILLOW FARM, SCHOOL ROAD, BARKHAM, WOKINGHAM, RG41 4TN | WEX300062 | Using waste exemption | On a Farm | Use of waste for a specified purpose |
| K | 256m NW | WILLOW FARM, SCHOOL ROAD, BARKHAM, WOKINGHAM, RG41 4TN | WEX300062 | Using waste exemption | On a Farm | Use of waste in construction |
| K | 256m NW | WILLOW FARM, SCHOOL ROAD, BARKHAM, WOKINGHAM, RG41 4TN | WEX300062 | Disposing of waste exemption | On a Farm | Burning waste in the open |
| K | 256m NW | WILLOW FARM, SCHOOL ROAD, BARKHAM, WOKINGHAM, RG41 4TN | WEX300062 | Using waste exemption | On a Farm | Spreading waste on agricultural land to confer benefit |
| K | 256m NW | WILLOW FARM, SCHOOL ROAD, BARKHAM, WOKINGHAM, RG41 4TN | WEX163563 | Disposing of waste exemption | On a Farm | Deposit of waste from dredging of inland waters |
| K | 256m NW | WILLOW FARM, SCHOOL ROAD, BARKHAM, WOKINGHAM, RG41 4TN | WEX163563 | Treating waste exemption | On a Farm | Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising |

| ID | Location | Site | Reference | Category | Sub-Category | Description |
|---|---|---|---|---|---|---|
| K | 256m NW | WILLOW FARM, SCHOOL ROAD, BARKHAM, WOKINGHAM, RG41 4TN | WEX163563 | Using waste exemption | On a Farm | Spreading of plant matter to confer benefit |
| K | 256m NW | WILLOW FARM, SCHOOL ROAD, BARKHAM, WOKINGHAM, RG41 4TN | WEX163563 | Using waste exemption | On a Farm | Use of waste in construction |
| K | 256m NW | WILLOW FARM, SCHOOL ROAD, BARKHAM, WOKINGHAM, RG41 4TN | WEX163563 | Using waste exemption | On a Farm | Use of waste for a specified purpose |
| K | 256m NW | WILLOW FARM, SCHOOL ROAD, BARKHAM, WOKINGHAM, RG41 4TN | WEX002772 | Disposing of waste exemption | On a farm | Deposit of waste from dredging of inland waters |
| K | 256m NW | WILLOW FARM, SCHOOL ROAD, BARKHAM, WOKINGHAM, RG41 4TN | WEX002772 | Treating waste exemption | On a farm | Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising |
| K | 256m NW | WILLOW FARM, SCHOOL ROAD, BARKHAM, WOKINGHAM, RG41 4TN | WEX002772 | Using waste exemption | On a farm | Spreading of plant matter to confer benefit |
| K | 256m NW | WILLOW FARM, SCHOOL ROAD, BARKHAM, WOKINGHAM, RG41 4TN | WEX002772 | Using waste exemption | On a farm | Use of waste for a specified purpose |
| K | 256m NW | WILLOW FARM, SCHOOL ROAD, BARKHAM, WOKINGHAM, RG41 4TN | WEX163563 | Disposing of waste exemption | On a Farm | Burning waste in the open |
| K | 256m NW | WILLOW FARM, SCHOOL ROAD, BARKHAM, WOKINGHAM, RG41 4TN | WEX163563 | Using waste exemption | On a Farm | Spreading waste on agricultural land to confer benefit |
| K | 256m NW | WILLOW FARM, SCHOOL ROAD, BARKHAM, WOKINGHAM, RG41 4TN | WEX002772 | Disposing of waste exemption | On a farm | Burning waste in the open |
| K | 256m NW | WILLOW FARM, SCHOOL ROAD, BARKHAM, WOKINGHAM, RG41 4TN | WEX002772 | Using waste exemption | On a farm | Spreading waste on agricultural land to confer benefit |
| 1 | 270m N | - | WEX263217 | Treating waste exemption | Not on a farm | Screening and blending of waste |
| L | 381m W | - | WEX273096 | Using waste exemption | Not on a farm | Spreading waste on non-agricultural land to confer benefit |

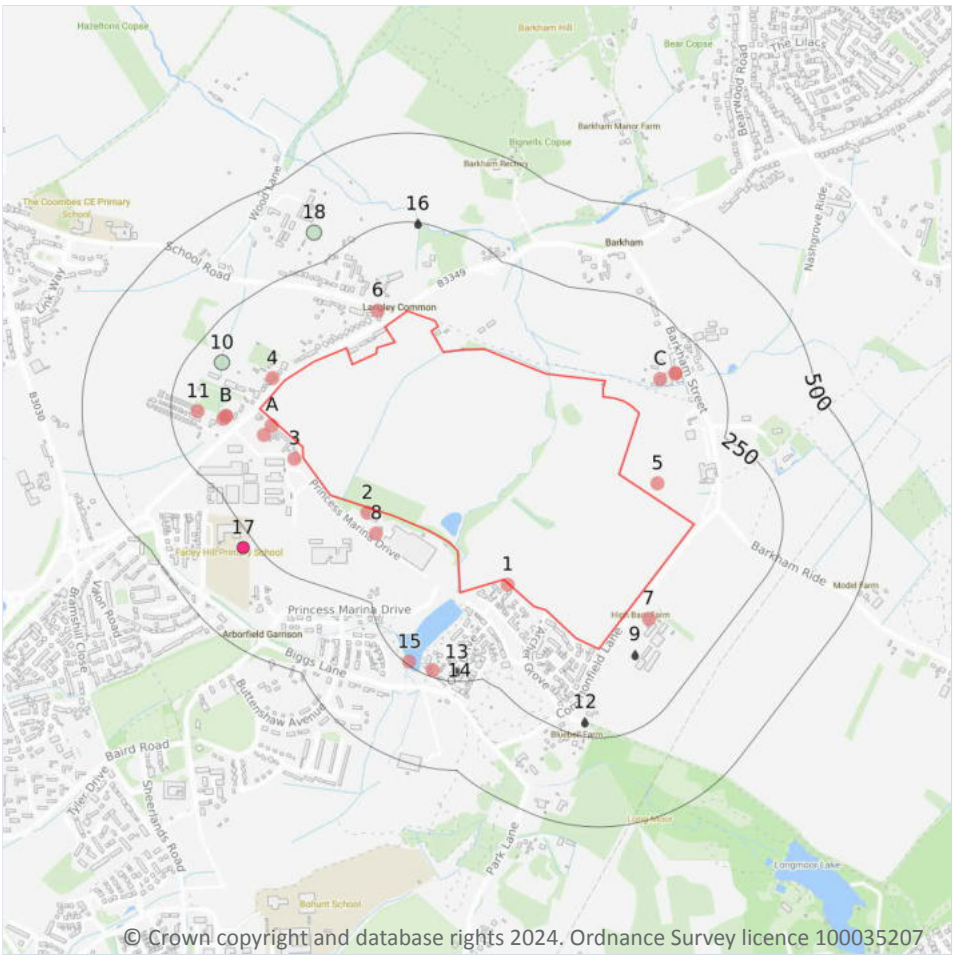
| ID | Location | Site | Reference | Category | Sub-Category | Description |
|---|---|---|---|---|---|---|
| L | 381m W | - | WEX273096 | Treating waste exemption | Not on a farm | Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising |
| L | 381m W | - | WEX273096 | Treating waste exemption | Not on a farm | Aerobic composting and associated prior treatment |
| L | 381m W | - | WEX273096 | Using waste exemption | Not on a farm | Use of mulch |
| L | 381m W | Arborfield Garrison, Reading, Berks, RG2 9NH | WEX133895 | Treating waste exemption | Not on a farm | Aerobic composting and associated prior treatment |
| L | 381m W | Arborfield Garrison, Reading, Berks, RG2 9NH | WEX133895 | Treating waste exemption | Not on a farm | Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising |
| L | 381m W | Arborfield Garrison, Reading, Berks, RG2 9NH | WEX134560 | Using waste exemption | Not on a farm | Spreading waste on non-agricultural land to confer benefit |
| L | 381m W | Arborfield Garrison, Reading, Berks, RG2 9NH | WEX133895 | Using waste exemption | Not on a farm | Use of mulch |
| L | 381m W | Arborfield Garrison Berks RG2 9NH | EPR/HF0604HV/A001 | Treating waste exemption | Non-Agricultural Waste Only | Aerobic composting and associated prior treatment |
| L | 381m W | Arborfield Garrison Berks RG2 9NH | EPR/HF0604HV/A001 | Using waste exemption | Non-Agricultural Waste Only | Use of mulch |
| L | 382m W | Hazebrouck Barracks READING RG2 9NH | EPR/BF0736EV/A001 | Treating waste exemption | Non-Agricultural Waste Only | Aerobic composting and associated prior treatment |
| L | 382m W | Hazebrouck Barracks READING RG2 9NH | EPR/BF0736EV/A001 | Treating waste exemption | Non-Agricultural Waste Only | Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising |
| M | 384m W | Field Farm Langley Common Road Barkham RG40 4TS | EPR/PF0704EQ/A001 | Disposing of waste exemption | Both agricultural and non-agricultural waste | Deposit of waste from dredging of inland waters |
| M | 384m W | Field Farm Langley Common Road Barkham RG40 4TS | EPR/PF0704EQ/A001 | Treating waste exemption | Both agricultural and non-agricultural waste | Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising |

| ID | Location | Site | Reference | Category | Sub-Category | Description |
|---|---|---|---|---|---|---|
| M | 384m W | Field Farm Langley Common Road Barkham RG40 4TS | EPR/PF0704EQ /A001 | Using waste exemption | Both agricultural and non-agricultural waste | Use of waste in construction |
| M | 384m W | Field Farm Langley Common Road Barkham RG40 4TS | EPR/PF0704EQ /A001 | Using waste exemption | Both agricultural and non-agricultural waste | Spreading waste on non-agricultural land to confer benefit |
| M | 384m W | Field Farm Langley Common Road Barkham RG40 4TS | EPR/PF0704EQ /A001 | Using waste exemption | Both agricultural and non-agricultural waste | Use of waste for a specified purpose |
| M | 384m W | Field Farm Langley Common Road Barkham RG40 4TS | EPR/SE5353ZY /A001 | Disposing of waste exemption | Agricultural Waste Only | Deposit of waste from dredging of inland waters |
| M | 384m W | Field Farm Langley Common Road Barkham RG40 4TS | EPR/SE5353ZY /A001 | Treating waste exemption | Both agricultural and non-agricultural waste | Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising |
| M | 384m W | Field Farm Langley Common Road Barkham RG40 4TS | EPR/SE5353ZY /A001 | Using waste exemption | Both agricultural and non-agricultural waste | Use of waste in construction |
| M | 384m W | Field Farm Langley Common Road Barkham RG40 4TS | EPR/SE5353ZY /A001 | Using waste exemption | Both agricultural and non-agricultural waste | Use of waste for a specified purpose |
| M | 384m W | Field Farm Langley Common Road Barkham RG40 4TS | EPR/PF0704EQ /A001 | Disposing of waste exemption | Both agricultural and non-agricultural waste | Burning waste in the open |
| M | 384m W | Field Farm Langley Common Road Barkham RG40 4TS | EPR/PF0704EQ /A001 | Using waste exemption | Both agricultural and non-agricultural waste | Spreading waste on agricultural land to confer benefit |

| ID | Location | Site | Reference | Category | Sub-Category | Description |
|---|---|---|---|---|---|---|
| M | 384m W | Field Farm Langley Common Road Barkham RG40 4TS | EPR/SE5353ZY /A001 | Disposing of waste exemption | Agricultural Waste Only | Deposit of agricultural waste consisting of plant tissue under a Plant Health notice |
| M | 384m W | Field Farm Langley Common Road Barkham RG40 4TS | EPR/SE5353ZY /A001 | Using waste exemption | Agricultural Waste Only | Spreading waste on agricultural land to confer benefit |
| M | 384m W | Field Farm Langley Common Road Barkham RG40 4TS | EPR/SE5353ZY /A001 | Disposing of waste exemption | Both agricultural and non-agricultural waste | Burning waste in the open |
| N | 414m NW | Land Adjoing Arborfield Sewage Treatment Works, Wood Lane, Barkham, RG41 4TS, RG41 4TS | WEX362058 | Using waste exemption | On a farm | Use of waste in construction |
| N | 414m NW | Land Adjoing Arborfield Sewage Treatment Works, Wood Lane, Barkham, RG41 4TS | WEX225359 | Using waste exemption | On a Farm | Use of waste in construction |
| N | 414m NW | Wokingham Borugh Counil Chipping Dump, Wood Lane, Arborfield, RG41 4TS | WEX022995 | Storing waste exemption | Not on a farm | Storage of waste in a secure place |
| N | 414m NW | Safe horses turst, Wood Lane, Barkham, WOKINGHAM, RG41 4TS | WEX160553 | Using waste exemption | Not on a Farm | Use of waste in construction |
| N | 414m NW | VolkerHighways, Wokingham Borough Council storage area, Wood Lane, Arborfield, RG41 4TS | WEX165490 | Storing waste exemption | Not on a Farm | Storage of waste in a secure place |
| 2 | 491m NE | Home Farm Buildings adjoining The Baliffs Cottage Barkham Road Barkham Berkshire RG41 4TG | EPR/YE5944N M/A001 | Using waste exemption | Non-Agricultural Waste Only | Use of waste in construction |
| 3 | 499m NW | - | WEX373519 | Storing waste exemption | Not on a farm | Storage of waste in a secure place |

*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
- Radioactive Substance Authorisations
- Licensed Discharges to controlled waters
- Pollution Incidents (EA/NRW)

## 4.1 Recent industrial land uses

| Records within 250m | 19 |
|---|---|

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on **page 38 >**

| ID | Location | Company | Address | Activity | Category |
|---|---|---|---|---|---|
| 1 | 3m S | Electricity Sub Station | Berkshire, RG2 | Electrical Features | Infrastructure and Facilities |
| A | 12m W | Tank | Berkshire, RG40 | Tanks (Generic) | Industrial Features |
| 2 | 15m W | Mast | Berkshire, RG40 | Telecommunications Features | Infrastructure and Facilities |

| ID | Location | Company | Address | Activity | Category |
|---|---|---|---|---|---|
| 3 | 25m W | Water Tower | Berkshire, RG40 | Water Pumping Stations | Industrial Features |
| 4 | 30m NW | Iona Engineering | 38, Langley Common Road, Barkham, Berkshire, RG40 4TS | Precision Engineers | Engineering Services |
| 5 | 38m E | Tank | Berkshire, RG40 | Tanks (Generic) | Industrial Features |
| A | 48m W | Tank | Berkshire, RG40 | Tanks (Generic) | Industrial Features |
| 6 | 50m NW | Electricity Sub Station | Berkshire, RG40 | Electrical Features | Infrastructure and Facilities |
| 7 | 59m SE | Aj Lake | High Barn Farm, Commonfield Lane, Barkham, Berkshire, RG40 4PR | Agricultural Contractors | Contract Services |
| 8 | 62m SW | Electricity Sub Station | Berkshire, RG40 | Electrical Features | Infrastructure and Facilities |
| B | 98m W | Stay Sure Tyres | 58-62, Langley Common Road, Barkham, Berkshire, RG40 4TS | Vehicle Parts and Accessories | Motoring |
| B | 98m W | Coupes & Convertibles Ltd | 58-62, Langley Common Road, Barkham, Berkshire, RG40 4TS | Secondhand Vehicles | Motoring |
| B | 108m W | Redlake Garage Services Ltd | 58-62, Langley Common Road, Barkham, Wokingham, Berkshire, RG40 4TS | Vehicle Repair, Testing and Servicing | Repair and Servicing |
| C | 111m NE | Jomar Engineering | Unit 5 Barkham Grange, Barkham Street, Barkham, Berkshire, RG40 4PJ | Metalworkers Including Blacksmiths | Construction Services |
| C | 151m NE | Axis Tooling Solutions Ltd | Barkham Grange, Barkham Street, Barkham, Berkshire, RG40 4PJ | Rubber, Silicones and Plastics | Industrial Products |
| C | 151m NE | Little Knocks | Barkham Grange, Barkham Street, Barkham, Berkshire, RG40 4PJ | Vehicle Repair, Testing and Servicing | Repair and Servicing |
| 11 | 174m W | Imperial Bodycraft | 64b, Langley Common Road, Barkham, Berkshire, RG40 4TS | Vehicle Repair, Testing and Servicing | Repair and Servicing |
| 14 | 230m S | Electricity Sub Station | Berkshire, RG2 | Electrical Features | Infrastructure and Facilities |
| 15 | 241m S | Jetty | Berkshire, RG2 | Moorings and Unloading Facilities | Water |

*This data is sourced from Ordnance Survey.*

## 4.2 Current or recent petrol stations

| Records within 500m | 0 |
|---|---|

Open, closed, under development and obsolete petrol stations.

*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 | 0 |
|---|---|

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.

*This data is sourced from Local Authority records.*

## 4.12 Radioactive Substance Authorisations

| Records within 500m | 1 |
|---|---|

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

Features are displayed on the Current industrial land use map on **page 38 >**

| ID | Location | Address | Details | |
|---|---|---|---|---|
| 17 | 285m W | Ministry Of Defence, School Of Electronic Engineering,hazelbrouck Barracks,aborfield, Reading, Berkshire, RG2 9NH | Operator: Ministry Of Defence<br>Type: Keeping And Use Of Radioactive Materials (was Rsa60 Section 1).<br>Permission number: AM4762<br>Date of approval: 31/03/1991 | Effective from: 31/03/1991<br>Last date of update: 01/01/2015<br>Status: Superseded By Variation |

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

## 4.13 Licensed Discharges to controlled waters

| Records within 500m | 4 |
|---|---|

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

Features are displayed on the Current industrial land use map on **page 38 >**

| ID | Location | Address | Details | |
|---|---|---|---|---|
| 9 | 89m SE | BROOK FARM, COMMONFIELD LANE, BARKH, BROOK FARM, COMMONFIELD LANE, BARKHAM, WOKINGHAM, BERKS | Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY<br>Permit Number: CTCU.1396<br>Permit Version: 1<br>Receiving Water: SAND (LWR BAGSHOT BEDS) STRATA | Status: TRANSFERRED FROM WRA 1963<br>Issue date: 03/06/1985<br>Effective Date: 03/06/1985<br>Revocation Date: - |
| 12 | 209m S | WINDMILL FARM COTTAGE, COMMONFIELD LANE, BARKHAM, WOKINGHAM, BERKSHIRE, RG40 4PP | Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY<br>Permit Number: CASM.0785<br>Permit Version: 1<br>Receiving Water: LAND AND TRIB OF LONGMOOR LAKE | Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995)<br>Issue date: 21/02/2003<br>Effective Date: 06/02/2003<br>Revocation Date: - |
| 13 | 224m S | ARBORFIELD GARRISON, ARBORFIELD, NE, ARBORFIELD GARRISON, ARBORFIELD NEAR READING, BERKSHIRE | Effluent Type: TRADE DISCHARGES - SITE DRAINAGE<br>Permit Number: CATM.2572<br>Permit Version: 1<br>Receiving Water: TRIBUTARY OFTHE BARKHAMBROOK | Status: NEW CONSENT, BY APPLICATION (WRA 91, SECTION 88)<br>Issue date: 19/12/1996<br>Effective Date: 19/12/1996<br>Revocation Date: - |

| ID | Location | Address | Details | |
|---|---|---|---|---|
| 16 | 246m N | CALDWELL HOUSE, BARKHAM ROAD, BARKHAM, WOKINGHAM, BERKSHIRE | Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY<br>Permit Number: CASM.0130<br>Permit Version: 1<br>Receiving Water: LAND AND BARKHAM BROOK | Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995)<br>Issue date: 26/05/2000<br>Effective Date: 13/09/1999<br>Revocation Date: - |

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

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

| Records within 500m | 0 |
|---|---|

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

| Records within 500m | 0 |
|---|---|

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 | 0 |
|---|---|

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.

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

## 4.18 Pollution Incidents (EA/NRW)

| Records within 500m | 2 |
|---|---|

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

Features are displayed on the Current industrial land use map on **page 38 >**

| ID | Location | Details | |
|---|---|---|---|
| 10 | 165m W | Incident Date: 15/08/2002<br>Incident Identification: 100497<br>Pollutant: Inert Materials and Wastes<br>Pollutant Description: Other Inert Material or Waste | Water Impact: Category 3 (Minor)<br>Land Impact: Category 4 (No Impact)<br>Air Impact: Category 4 (No Impact) |
| 18 | 332m NW | Incident Date: 12/08/2002<br>Incident Identification: 99483<br>Pollutant: Inert Materials and Wastes<br>Pollutant Description: Soils and Clay | Water Impact: Category 4 (No Impact)<br>Land Impact: Category 2 (Significant)<br>Air Impact: Category 4 (No Impact) |

*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.*

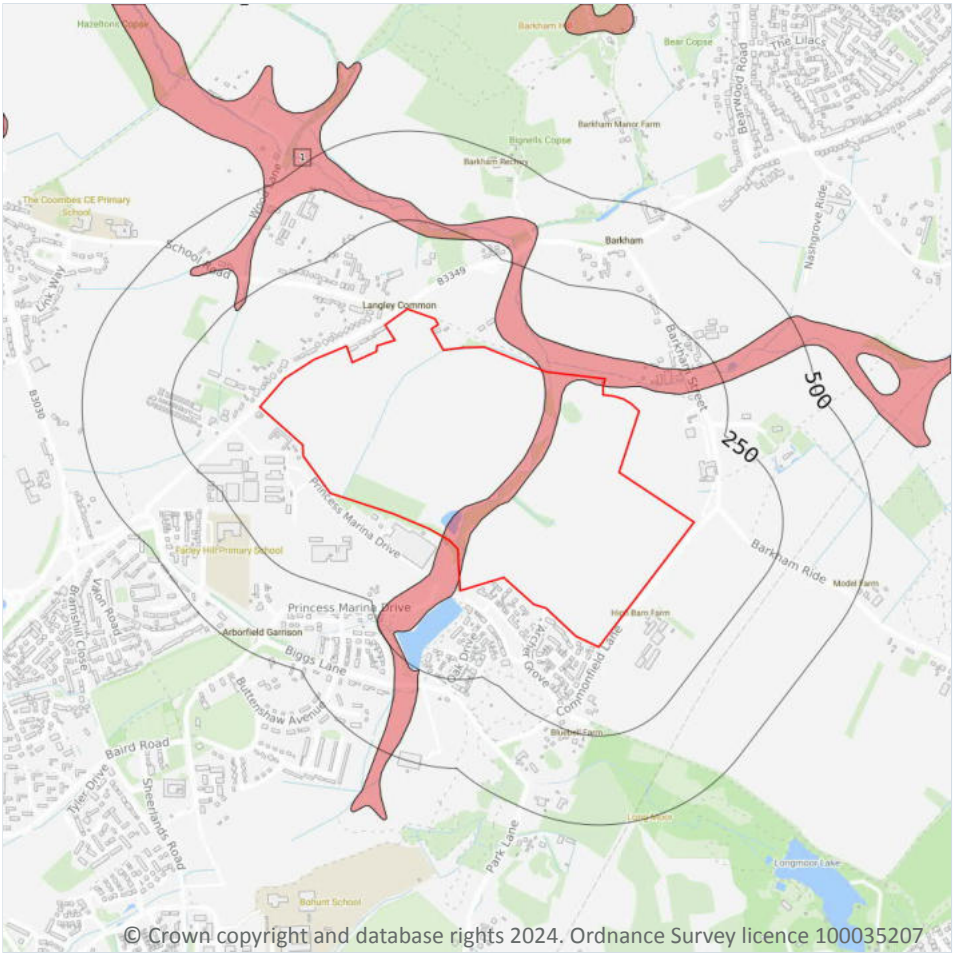
## 4.21 Pollution inventory radioactive waste

| 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




© Crown copyright and database rights 2024. Ordnance Survey licence 100035207

Site Outline

Search buffers in metres (m)

- Principal
- Secondary A
- Secondary B
- Secondary Undifferentiated
- Unproductive
- Unknown

## 5.1 Superficial aquifer

| Records within 500m | 1 |
|---|---|

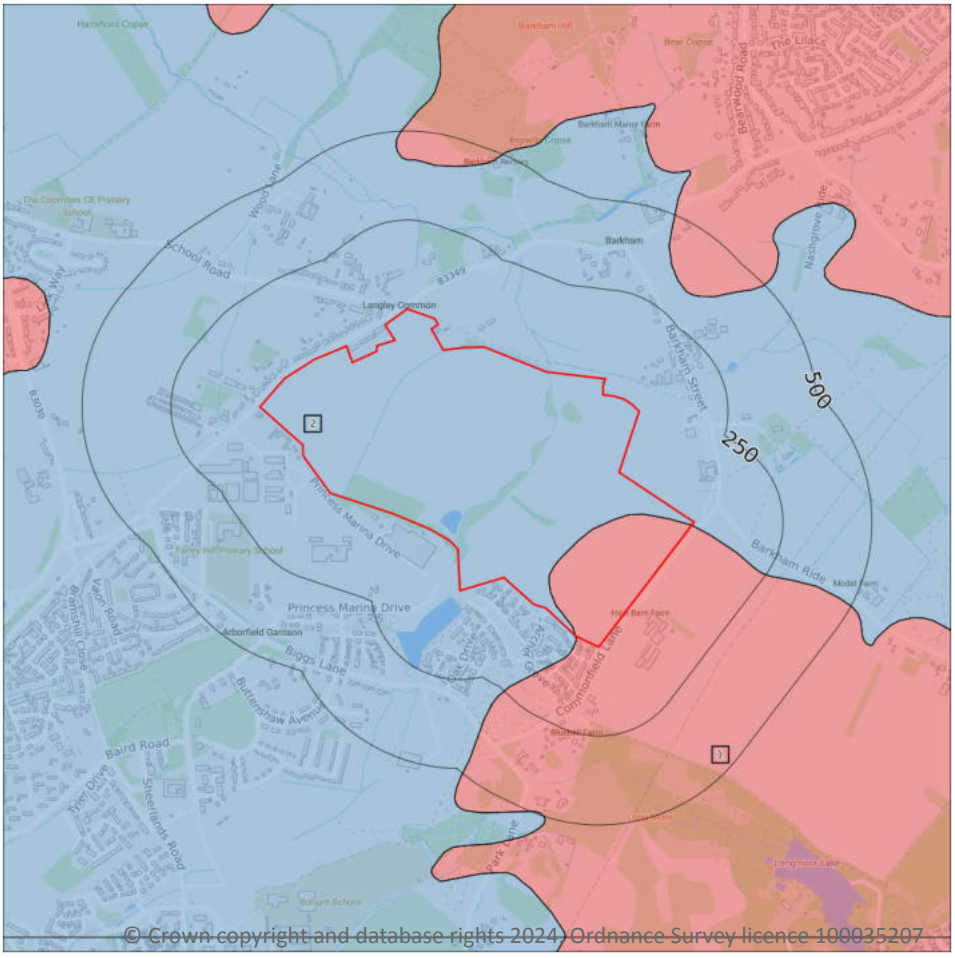
Aquifer status of groundwater held within superficial geology.

Features are displayed on the Hydrogeology map on **page 46** >

| 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** |

*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 | 2 |
|---|---|

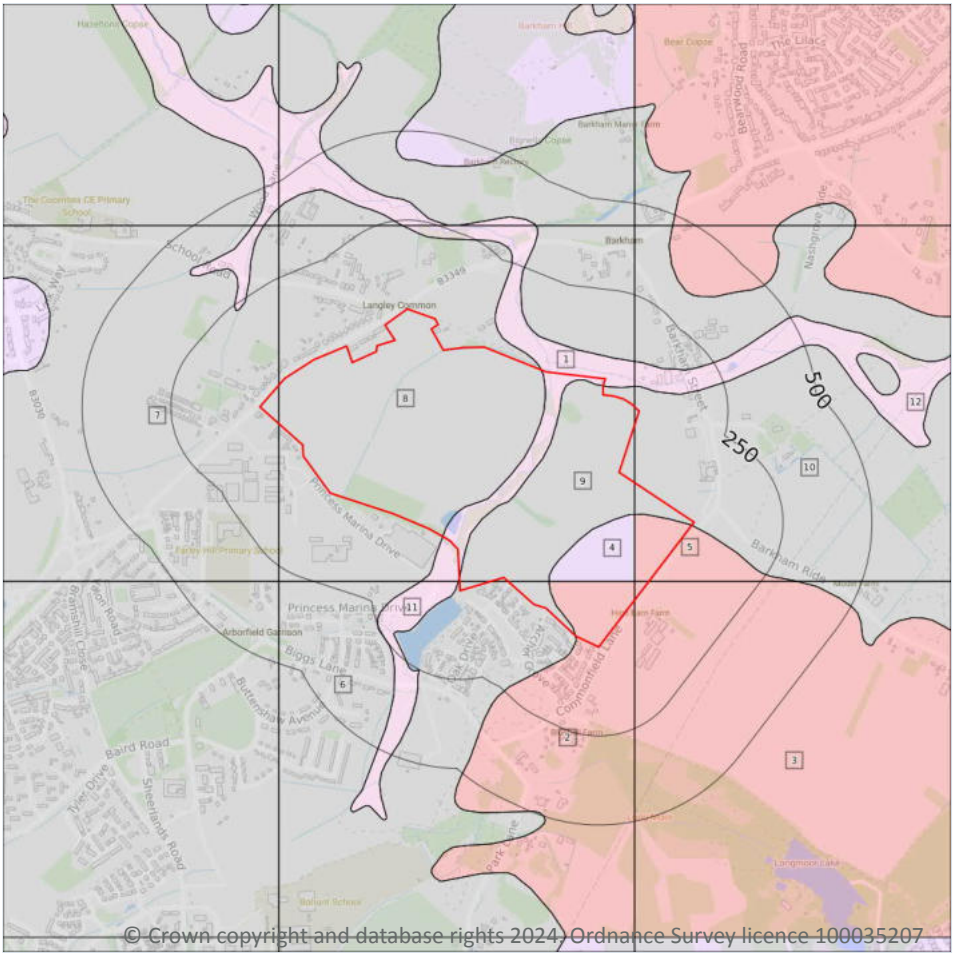
Aquifer status of groundwater held within bedrock geology.

Features are displayed on the Bedrock aquifer map on **page 47 >**

| 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 | Unproductive | These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow |

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

# Groundwater vulnerability




Site Outline

Search buffers in metres (m)

Superficial vulnerability

- Principal superficial aquifer, high vulnerability
- Secondary superficial aquifer, high vulnerability
- Principal superficial aquifer, medium vulnerability
- Secondary superficial aquifer, medium vulnerability
- Principal superficial aquifer, low vulnerability
- Secondary superficial aquifer, low vulnerability

Bedrock vulnerability

- Principal bedrock aquifer, high vulnerability
- Secondary bedrock aquifer, high vulnerability
- Principal bedrock aquifer, medium vulnerability
- Secondary bedrock aquifer, medium vulnerability
- Principal bedrock aquifer, low vulnerability
- Secondary bedrock aquifer, low vulnerability

Other information

- Unproductive aquifer
- Soluble rock risk
- Local information

## 5.3 Groundwater vulnerability

| Records within 50m | 12 |
|---|---|

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 48 >**

| ID | Location | Summary | Soil / surface | Superficial geology | Bedrock geology |
|---|---|---|---|---|---|
| 1 | On site | Summary Classification: Secondary superficial aquifer - Medium Vulnerability<br>Combined classification: Unproductive Bedrock Aquifer, Productive Superficial Aquifer | Leaching class: Low<br>Infiltration value: 40-70%<br>Dilution value: <300mm/year | Vulnerability: Medium<br>Aquifer type: Secondary<br>Thickness: <3m<br>Patchiness value: <90%<br>Recharge potential: No Data | Vulnerability: Unproductive<br>Aquifer type: Unproductive<br>Flow mechanism: Mixed |
| 2 | On site | Summary Classification: Secondary bedrock aquifer - High Vulnerability<br>Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer | Leaching class: Low<br>Infiltration value: >70%<br>Dilution value: <300mm/year | Vulnerability: -<br>Aquifer type: -<br>Thickness: <3m<br>Patchiness value: <90%<br>Recharge potential: No Data | Vulnerability: High<br>Aquifer type: Secondary<br>Flow mechanism: Mixed |
| 3 | On site | Summary Classification: Secondary bedrock aquifer - High Vulnerability<br>Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer | Leaching class: Intermediate<br>Infiltration value: >70%<br>Dilution value: 300-550mm/year | Vulnerability: -<br>Aquifer type: -<br>Thickness: <3m<br>Patchiness value: <90%<br>Recharge potential: No Data | Vulnerability: High<br>Aquifer type: Secondary<br>Flow mechanism: Mixed |
| 4 | On site | Summary Classification: Secondary bedrock aquifer - Medium Vulnerability<br>Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer | Leaching class: Low<br>Infiltration value: 40-70%<br>Dilution value: <300mm/year | Vulnerability: -<br>Aquifer type: -<br>Thickness: <3m<br>Patchiness value: <90%<br>Recharge potential: No Data | Vulnerability: Medium<br>Aquifer type: Secondary<br>Flow mechanism: Mixed |
| 5 | On site | Summary Classification: Secondary bedrock aquifer - High Vulnerability<br>Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer | Leaching class: Low<br>Infiltration value: >70%<br>Dilution value: <300mm/year | Vulnerability: -<br>Aquifer type: -<br>Thickness: <3m<br>Patchiness value: <90%<br>Recharge potential: No Data | Vulnerability: High<br>Aquifer type: Secondary<br>Flow mechanism: Mixed |
| 6 | On site | Summary Classification: Unproductive aquifer (may have productive aquifer beneath)<br>Combined classification: Unproductive Bedrock Aquifer, No Superficial Aquifer | Leaching class: Low<br>Infiltration value: >70%<br>Dilution value: <300mm/year | Vulnerability: -<br>Aquifer type: -<br>Thickness: <3m<br>Patchiness value: <90%<br>Recharge potential: No Data | Vulnerability: Unproductive<br>Aquifer type: Unproductive<br>Flow mechanism: Mixed |

| ID | Location | Summary | Soil / surface | Superficial geology | Bedrock geology |
|---|---|---|---|---|---|
| **7** | **On site** | **Summary Classification: Unproductive aquifer (may have productive aquifer beneath) Combined classification: Unproductive Bedrock Aquifer, No Superficial Aquifer** | **Leaching class: Low Infiltration value: 40-70% Dilution value: <300mm/year** | **Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data** | **Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Mixed** |
| **8** | **On site** | **Summary Classification: Unproductive aquifer (may have productive aquifer beneath) Combined classification: Unproductive Bedrock Aquifer, No Superficial Aquifer** | **Leaching class: Low Infiltration value: 40-70% Dilution value: <300mm/year** | **Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data** | **Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Mixed** |
| **9** | **On site** | **Summary Classification: Unproductive aquifer (may have productive aquifer beneath) Combined classification: Unproductive Bedrock Aquifer, No Superficial Aquifer** | **Leaching class: Low Infiltration value: 40-70% Dilution value: <300mm/year** | **Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data** | **Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Mixed** |
| **10** | **On site** | **Summary Classification: Unproductive aquifer (may have productive aquifer beneath) Combined classification: Unproductive Bedrock Aquifer, No Superficial Aquifer** | **Leaching class: Low Infiltration value: >70% Dilution value: <300mm/year** | **Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data** | **Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Mixed** |
| 11 | 3m S | Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Unproductive Bedrock Aquifer, Productive Superficial Aquifer | Leaching class: Low Infiltration value: >70% Dilution value: <300mm/year | Vulnerability: Medium Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: No Data | Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Mixed |
| 12 | 46m NE | Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Unproductive Bedrock Aquifer, Productive Superficial Aquifer | Leaching class: Low Infiltration value: >70% Dilution value: <300mm/year | Vulnerability: Medium Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: No Data | Vulnerability: Unproductive Aquifer type: Unproductive 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
- 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 52 >**

| ID | Location | Details | |
|---|---|---|---|
| - | 1447m NW | Status: Historical<br>Licence No: 28/39/24/0102<br>Details: General Farming & Domestic<br>Direct Source: THAMES GROUNDWATER<br>Point: WELL AT NEWLANDS, ARBORFIELD<br>Data Type: Point<br>Name: HATCH FARM DAIRIES LTD<br>Easting: 476800<br>Northing: 168100 | Annual Volume ($m^3$): -<br>Max Daily Volume ($m^3$): -<br>Original Application No: -<br>Original Start Date: 08/05/1967<br>Expiry Date: -<br>Issue No: 101<br>Version Start Date: 01/04/2001<br>Version End Date: - |
| - | 1943m E | Status: Historical<br>Licence No: 28/39/24/0250<br>Details: Spray Irrigation - Direct<br>Direct Source: THAMES GROUNDWATER<br>Point: SANDMARTINS GOLF CLUB WOKINGHAM-BOREHOLE 'B'<br>Data Type: Point<br>Name: SANDMARTINS GOLF CLUB LIMITED<br>Easting: 480110<br>Northing: 166200 | Annual Volume ($m^3$): 30000<br>Max Daily Volume ($m^3$): 150<br>Original Application No: -<br>Original Start Date: 31/08/2006<br>Expiry Date: 31/03/2016<br>Issue No: 1<br>Version Start Date: 31/08/2006<br>Version End Date: - |
| - | 1945m E | Status: Active<br>Licence No: 28/39/24/0250/R01<br>Details: Spray Irrigation - Direct<br>Direct Source: THAMES GROUNDWATER<br>Point: SANDMARTINS GOLF CLUB WOKINGHAM-BOREHOLE 'B'<br>Data Type: Point<br>Name: SANDMARTINS GOLF CLUB LIMITED<br>Easting: 480112<br>Northing: 166212 | Annual Volume ($m^3$): 15000<br>Max Daily Volume ($m^3$): 150<br>Original Application No: NPS/WR/019290<br>Original Start Date: 01/04/2016<br>Expiry Date: 31/03/2028<br>Issue No: 1<br>Version Start Date: 01/04/2021<br>Version End Date: - |
| - | 1945m E | Status: Historical<br>Licence No: 28/39/24/0250<br>Details: Spray Irrigation - Direct<br>Direct Source: THAMES GROUNDWATER<br>Point: SANDMARTINS GOLF CLUB WOKINGHAM-BOREHOLE 'B'<br>Data Type: Point<br>Name: SANDMARTINS GOLF CLUB LIMITED<br>Easting: 480112<br>Northing: 166212 | Annual Volume ($m^3$): 30000<br>Max Daily Volume ($m^3$): 150<br>Original Application No: -<br>Original Start Date: 31/08/2006<br>Expiry Date: 31/03/2016<br>Issue No: 1<br>Version Start Date: 31/08/2006<br>Version End Date: - |

| ID | Location | Details | |
|---|---|---|---|
| - | 1983m E | Status: Historical<br>Licence No: 28/39/24/0250<br>Details: Spray Irrigation - Direct<br>Direct Source: THAMES GROUNDWATER<br>Point: SANDMARTINS GOLF CLUB WOKINGHAM -BOREHOLE 'A'<br>Data Type: Point<br>Name: SANDMARTINS GOLF CLUB LIMITED<br>Easting: 480150<br>Northing: 166200 | Annual Volume ($m^3$): 30000<br>Max Daily Volume ($m^3$): 150<br>Original Application No: -<br>Original Start Date: 31/08/2006<br>Expiry Date: 31/03/2016<br>Issue No: 1<br>Version Start Date: 31/08/2006<br>Version End Date: - |
| - | 1988m N | Status: Historical<br>Licence No: 28/39/24/0152<br>Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services<br>Direct Source: THAMES GROUNDWATER<br>Point: BEAR WOOD, SINDLESHAM - BOREHOLE 'B'<br>Data Type: Point<br>Name: ROYAL MERCHANT NAVY SCHOOL FOUNDATION<br>Easting: 476900<br>Northing: 168700 | Annual Volume ($m^3$): -<br>Max Daily Volume ($m^3$): -<br>Original Application No: -<br>Original Start Date: 09/10/1972<br>Expiry Date: -<br>Issue No: 100<br>Version Start Date: 05/03/1980<br>Version End Date: - |

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

## 5.7 Surface water abstractions

| **Records within 2000m** | **6** |
|---|---|

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 52 >**

| ID | Location | Details | |
|---|---|---|---|
| - | 1646m N | Status: Historical<br>Licence No: 28/39/24/0223<br>Details: Spray Irrigation - Direct<br>Direct Source: THAMES SURFACE WATER - NON TIDAL<br>Point: BEARWOOD LAKE AT BEARWOOD LAKES GOLF CLUB<br>Data Type: Point<br>Name: WARD WILSON INVESTMENTS LTD<br>Easting: 477560<br>Northing: 168400 | Annual Volume ($m^3$): 26940<br>Max Daily Volume ($m^3$): 427<br>Original Application No: -<br>Original Start Date: 02/05/1996<br>Expiry Date: 31/12/2006<br>Issue No: 100<br>Version Start Date: 21/05/1998<br>Version End Date: - |

| ID | Location | Details | |
|---|---|---|---|
| - | 1646m N | Status: Historical<br>Licence No: 28/39/24/0251<br>Details: Spray Irrigation - Direct<br>Direct Source: THAMES SURFACE WATER - NON TIDAL<br>Point: BEARWOOD LAKE AT BEARWOOD LAKES GOLF CLUB<br>Data Type: Point<br>Name: WARD WILSON INVESTMENTS LTD<br>Easting: 477560<br>Northing: 168400 | Annual Volume ($m^3$): 26940<br>Max Daily Volume ($m^3$): 427<br>Original Application No: -<br>Original Start Date: 01/01/2007<br>Expiry Date: 31/03/2016<br>Issue No: 1<br>Version Start Date: 01/04/2012<br>Version End Date: - |
| - | 1646m N | Status: Historical<br>Licence No: 28/39/24/0251/R01<br>Details: Spray Irrigation - Direct<br>Direct Source: THAMES SURFACE WATER - NON TIDAL<br>Point: BEARWOOD LAKE AT BEARWOOD LAKES GOLF CLUB<br>Data Type: Point<br>Name: WARD WILSON INVESTMENTS LTD<br>Easting: 477560<br>Northing: 168400 | Annual Volume ($m^3$): 26940<br>Max Daily Volume ($m^3$): 427<br>Original Application No: -<br>Original Start Date: 01/04/2016<br>Expiry Date: 31/03/2028<br>Issue No: 1<br>Version Start Date: 01/04/2016<br>Version End Date: - |
| - | 1646m N | Status: Historical<br>Licence No: 28/39/24/0251/R01<br>Details: Spray Irrigation - Storage<br>Direct Source: THAMES SURFACE WATER - NON TIDAL<br>Point: BEARWOOD LAKE AT BEARWOOD LAKES GOLF CLUB<br>Data Type: Point<br>Name: WARD WILSON INVESTMENTS LTD<br>Easting: 477560<br>Northing: 168400 | Annual Volume ($m^3$): 36000<br>Max Daily Volume ($m^3$): 854<br>Original Application No: NPS/WR/029765<br>Original Start Date: 01/04/2016<br>Expiry Date: 31/03/2028<br>Issue No: 3<br>Version Start Date: 01/04/2019<br>Version End Date: - |
| - | 1995m N | Status: Historical<br>Licence No: 28/39/24/0200<br>Details: Spray Irrigation - Direct<br>Direct Source: THAMES SURFACE WATER - NON TIDAL<br>Point: BEARWOOD LAKE AT BEARWOOD GOLF COURSE, SINDLESHAM<br>Data Type: Point<br>Name: RFC Bearwood Limited<br>Easting: 477071<br>Northing: 168740 | Annual Volume ($m^3$): 2273<br>Max Daily Volume ($m^3$): 33<br>Original Application No: NPS/WR/025060<br>Original Start Date: 01/08/1989<br>Expiry Date: -<br>Issue No: 102<br>Version Start Date: 22/12/2016<br>Version End Date: - |

| ID | Location | Details | |
|---|---|---|---|
| - | 1995m N | Status: Historical<br>Licence No: 28/39/24/0200<br>Details: Spray Irrigation - Direct<br>Direct Source: THAMES SURFACE WATER - NON TIDAL<br>Point: BEARWOOD LAKE AT BEARWOOD GOLF COURSE, SINDLESHAM<br>Data Type: Point<br>Name: ROYAL MERCHANT NAVY SCHOOL FOUNDATION<br>Easting: 477070<br>Northing: 168740 | Annual Volume ($m^3$): 2273<br>Max Daily Volume ($m^3$): 33<br>Original Application No: -<br>Original Start Date: 01/08/1989<br>Expiry Date: -<br>Issue No: 100<br>Version Start Date: 01/04/2008<br>Version End Date: - |

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

## 5.8 Potable abstractions

| Records within 2000m | 1 |
|---|---|

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.

Features are displayed on the Abstractions and Source Protection Zones map on **page 52 >**

| ID | Location | Details | |
|---|---|---|---|
| - | 1988m N | Status: Historical<br>Licence No: 28/39/24/0152<br>Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services<br>Direct Source: THAMES GROUNDWATER<br>Point: BEAR WOOD, SINDLESHAM - BOREHOLE 'B'<br>Data Type: Point<br>Name: ROYAL MERCHANT NAVY SCHOOL FOUNDATION<br>Easting: 476900<br>Northing: 168700 | Annual Volume ($m^3$): -<br>Max Daily Volume ($m^3$): -<br>Original Application No: -<br>Original Start Date: 09/10/1972<br>Expiry Date: -<br>Issue No: 100<br>Version Start Date: 05/03/1980<br>Version End Date: - |

*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.*

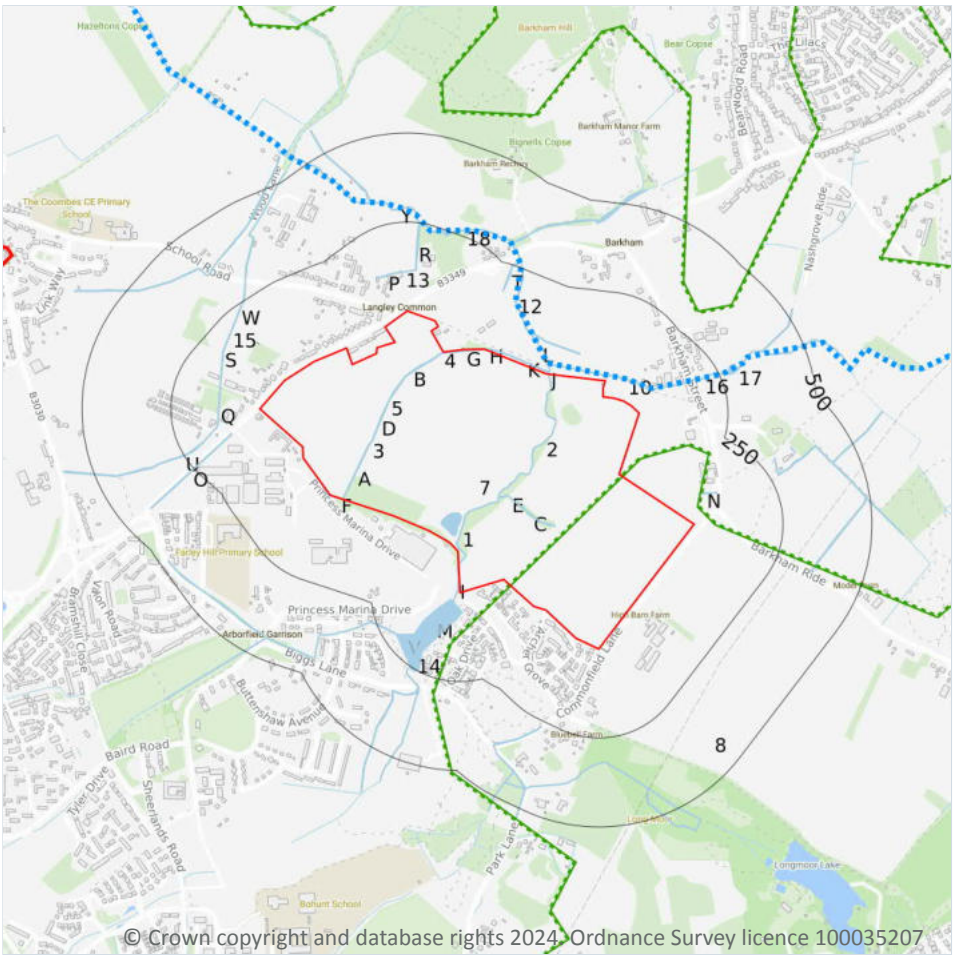
## 5.10 Source Protection Zones (confined aquifer)

| 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




## 6.1 Water Network (OS MasterMap)

| Records within 250m | 61 |
|---|---|

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 58 >**

| ID | Location | Type of water feature | Ground level | Permanence | Name |
|---|---|---|---|---|---|
| **1** | **On site** | **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** | **On site** | **Inland river not influenced by normal tidal action.** | **On ground surface** | **Watercourse contains water year round (in normal circumstances)** | **-** |
| **3** | **On site** | **Inland river not influenced by normal tidal action.** | **Underground** | **Watercourse contains water year round (in normal circumstances)** | **-** |
| **4** | **On site** | **Inland river not influenced by normal tidal action.** | **Underground** | **Watercourse contains water year round (in normal circumstances)** | **-** |
| **5** | **On site** | **Inland river not influenced by normal tidal action.** | **Underground** | **Watercourse contains water year round (in normal circumstances)** | **-** |
| **A** | **On site** | **Inland river not influenced by normal tidal action.** | **On ground surface** | **Watercourse contains water year round (in normal circumstances)** | **-** |
| **B** | **On site** | **Inland river not influenced by normal tidal action.** | **On ground surface** | **Watercourse contains water year round (in normal circumstances)** | **-** |
| **C** | **On site** | **Inland river not influenced by normal tidal action.** | **On ground surface** | **Watercourse contains water year round (in normal circumstances)** | **-** |
| **D** | **On site** | **Inland river not influenced by normal tidal action.** | **On ground surface** | **Watercourse contains water year round (in normal circumstances)** | **-** |
| **E** | **On site** | **Inland river not influenced by normal tidal action.** | **On ground surface** | **Watercourse contains water year round (in normal circumstances)** | **-** |
| **E** | **On site** | **Inland river not influenced by normal tidal action.** | **On ground surface** | **Watercourse contains water year round (in normal circumstances)** | **-** |
| **F** | **On site** | **Inland river not influenced by normal tidal action.** | **On ground surface** | **Watercourse contains water year round (in normal circumstances)** | **-** |
| **G** | **On site** | **Inland river not influenced by normal tidal action.** | **On ground surface** | **Watercourse contains water year round (in normal circumstances)** | **-** |
| F | 1m W | 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 |
|---|---|---|---|---|---|
| H | 3m N | Inland river not influenced by normal tidal action. | Underground | Watercourse contains water year round (in normal circumstances) | - |
| I | 3m S | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | - |
| I | 3m S | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | - |
| H | 4m N | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | - |
| J | 5m NE | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | - |
| J | 5m NE | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | - |
| J | 7m NE | Inland river not influenced by normal tidal action. | Underground | Watercourse contains water year round (in normal circumstances) | - |
| K | 7m NE | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | - |
| I | 9m S | Inland river not influenced by normal tidal action. | Underground | Watercourse contains water year round (in normal circumstances) | - |
| H | 10m N | Inland river not influenced by normal tidal action. | Underground | Watercourse contains water year round (in normal circumstances) | - |
| 10 | 15m NE | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | - |
| L | 27m NE | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | - |
| M | 31m S | Lake, loch or reservoir. | On ground surface | Watercourse contains water year round (in normal circumstances) | - |

| ID | Location | Type of water feature | Ground level | Permanence | Name |
|---|---|---|---|---|---|
| L | 66m NE | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | - |
| N | 78m E | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | - |
| 12 | 92m N | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | - |
| N | 100m E | Inland river not influenced by normal tidal action. | Underground | Watercourse contains water year round (in normal circumstances) | - |
| O | 104m W | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | - |
| N | 104m E | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | - |
| 13 | 109m NW | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | - |
| P | 113m NW | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | - |
| Q | 115m W | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | - |
| R | 117m N | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | - |
| P | 120m NW | Inland river not influenced by normal tidal action. | Underground | Watercourse contains water year round (in normal circumstances) | - |
| Q | 120m W | Inland river not influenced by normal tidal action. | Underground | Watercourse contains water year round (in normal circumstances) | - |
| Q | 122m W | Inland river not influenced by normal tidal action. | Underground | Watercourse contains water year round (in normal circumstances) | - |

| ID | Location | Type of water feature | Ground level | Permanence | Name |
|---|---|---|---|---|---|
| Q | 123m W | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | - |
| Q | 124m W | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | - |
| P | 124m NW | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | - |
| Q | 127m W | Inland river not influenced by normal tidal action. | Underground | Watercourse contains water year round (in normal circumstances) | - |
| Q | 128m W | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | - |
| Q | 138m W | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | - |
| Q | 148m W | Inland river not influenced by normal tidal action. | Underground | Watercourse contains water year round (in normal circumstances) | - |
| S | 149m W | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | - |
| T | 171m N | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | - |
| U | 183m W | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | - |
| 14 | 191m S | Lake, loch or reservoir. | On ground surface | Watercourse contains water year round (in normal circumstances) | - |
| V | 191m S | Lake, loch or reservoir. | On ground surface | Watercourse contains water year round (in normal circumstances) | - |
| 15 | 202m NW | Inland river not influenced by normal tidal action. | Underground | Watercourse contains water year round (in normal circumstances) | - |

| ID | Location | Type of water feature | Ground level | Permanence | Name |
|---|---|---|---|---|---|
| 16 | 203m NE | Inland river not influenced by normal tidal action. | Underground | Watercourse contains water year round (in normal circumstances) | - |
| W | 203m NW | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | - |
| 17 | 206m NE | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | - |
| V | 215m SW | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | - |
| V | 224m SW | Inland river not influenced by normal tidal action. | Underground | Watercourse contains water year round (in normal circumstances) | - |
| V | 227m SW | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | - |
| 18 | 233m N | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | - |
| Y | 246m N | 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

| Records within 250m | 25 |
|---|---|

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 58 >**

*This data is sourced from the Ordnance Survey.*

## 6.3 WFD Surface water body catchments

| Records on site | 1 |
|---|---|

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 58 >**

| ID | Location | Type | Water body catchment | Water body ID | Operational catchment | Management catchment |
|---|---|---|---|---|---|---|
| **7** | **On site** | **River** | **Barkham Brook** | **GB106039017400** | **Loddon** | **Loddon and Trib** |

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

## 6.4 WFD Surface water bodies

| Records identified | 1 |
|---|---|

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 58 >**

| ID | Location | Type | Name | Water body ID | Overall rating | Chemical rating | Ecological rating | Year |
|---|---|---|---|---|---|---|---|---|
| 11 | 17m NE | River | Barkham Brook | GB106039017400 ↗ | Moderate | Fail | Moderate | 2019 |

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

## 6.5 WFD Groundwater bodies

| Records on site | 1 |
|---|---|

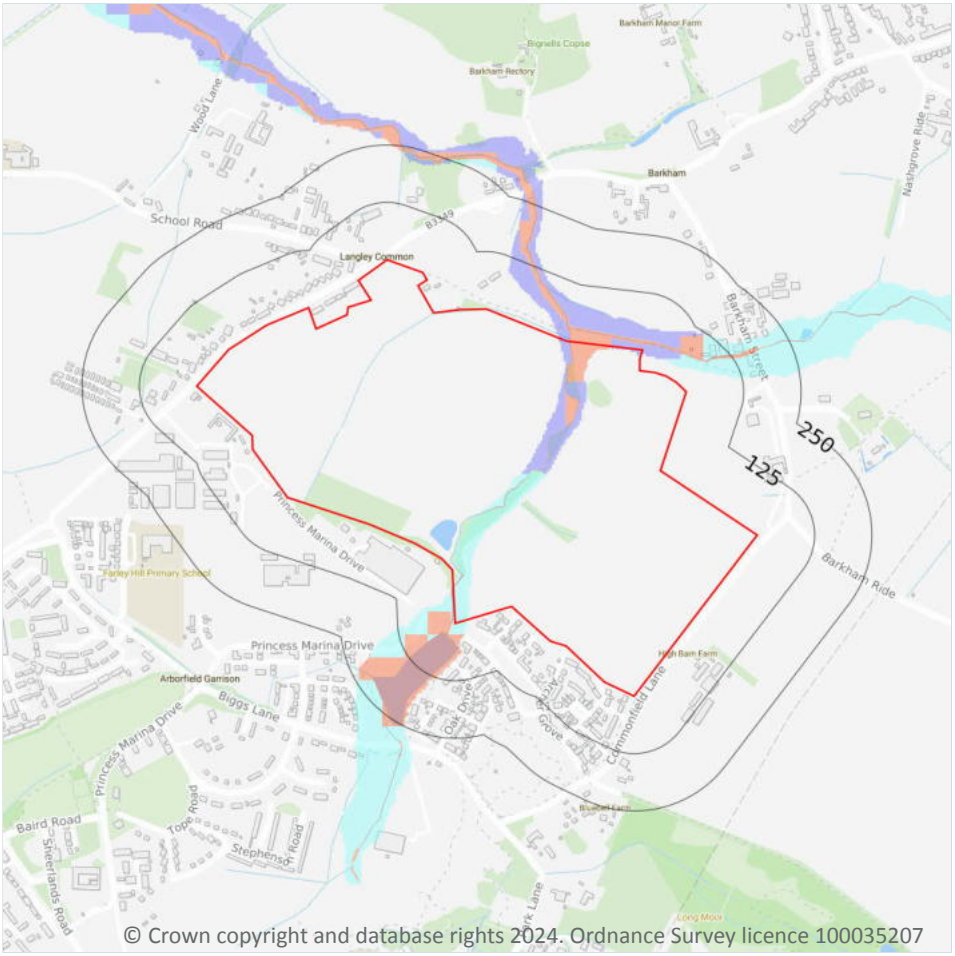
Groundwater bodies are also covered by the Directive and the same regime of objectives and reporting detailed in the previous section is in place. Click on the water body ID in the table to visit the EA Catchment Explorer to find out more about each groundwater body listed.

Features are displayed on the Hydrology map on **page 58 >**

| ID | Location | Name | Water body ID | Overall rating | Chemical rating | Quantitative | Year |
|---|---|---|---|---|---|---|---|
| **8** | **On site** | **Farnborough Bagshot Beds** | **GB40602G601300** ↗ | **Good** | **Good** | **Good** | **2019** |

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

# 7 River and coastal flooding




Site Outline

Search buffers in metres (m)

River and coastal flooding:

- High
- Medium
- Low
- Very Low

- Historical Flood Events
- Areas Used for Flood Storage
- Areas Benefiting from Flood Defences

- Flood Defences

## 7.1 Risk of flooding from rivers and the sea

| Records within 50m | 15 |
|---|---|

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).

Features are displayed on the River and coastal flooding map on **page 66 >**

| Distance | Flood risk category |
|---|---|
| **On site** | **High** |
| 0 - 50m | High |

*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.*

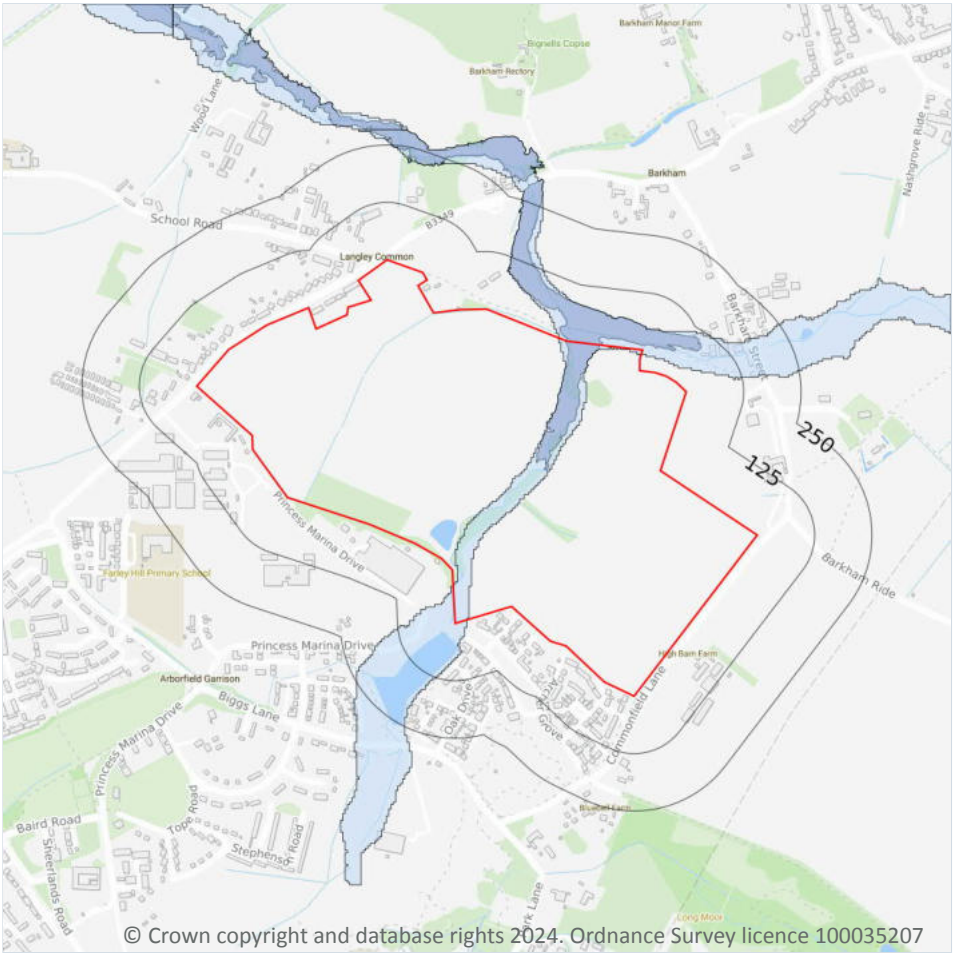
## 7.5 Flood Storage Areas

| 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




Site Outline

Search buffers in metres (m)

Flood zone 2

Flood zone 3

## 7.6 Flood Zone 2

| Records within 50m | 1 |
|---|---|

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.

Features are displayed on the River and coastal flooding map on **page 66 >**

| Location | Type |
|---|---|
| **On site** | **Zone 2 - (Fluvial /Tidal Models)** |

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

## 7.7 Flood Zone 3

| Records within 50m | 1 |
|---|---|

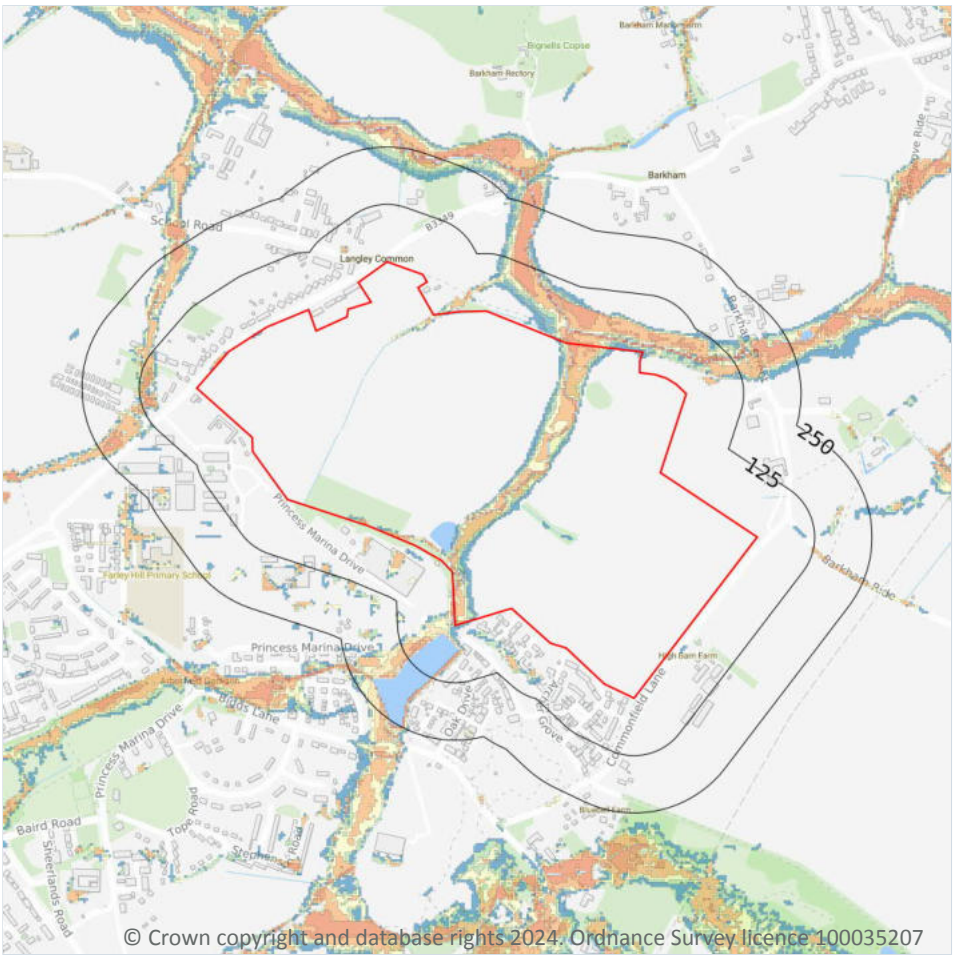
Areas of land at risk of flooding, when the presence of flood defences are ignored. Covering land with a 1 in 100 (1%) or greater chance of flooding each year from rivers or a 1 in 200 (0.5%) or greater chance of flooding each year from the sea.

Features are displayed on the River and coastal flooding map on **page 66 >**

| Location | Type |
|---|---|
| **On site** | **Zone 3 - (Fluvial Models)** |

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

# 8 Surface water flooding




Site Outline

Search buffers in metres (m)

1 in 1000 return period
- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 250 return period
- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 100 return period
- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 30 return period
- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

## 8.1 Surface water flooding

| | |
|---|---|
| **Highest risk on site** | **1 in 30 year, Greater than 1.0m** |
| **Highest risk within 50m** | **1 in 30 year, Greater than 1.0m** |

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 70 >**

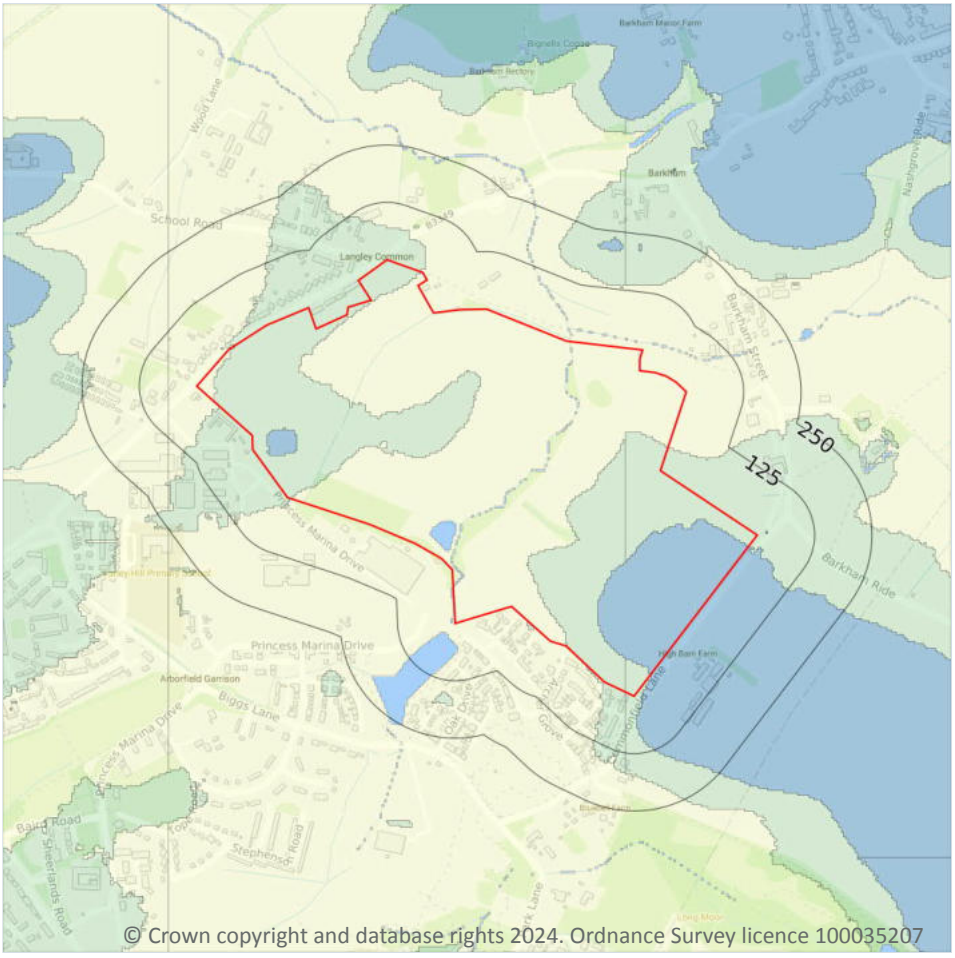
The data shown on the map and in the table above shows the highest likelihood of flood events happening at the site. Lower likelihood events may have greater flood depths and hence a greater potential impact on a site.

The table below shows the maximum flood depths for a range of return periods for the site.

| Return period | Maximum modelled depth |
|---|---|
| 1 in 1000 year | Greater than 1.0m |
| 1 in 250 year | Greater than 1.0m |
| 1 in 100 year | Greater than 1.0m |
| 1 in 30 year | Greater than 1.0m |

*This data is sourced from Ambiental Risk Analytics.*

# 9 Groundwater flooding




Site Outline

Search buffers in metres (m)

- High
- Moderate - High
- Moderate
- Low
- Negligible

## 9.1 Groundwater flooding

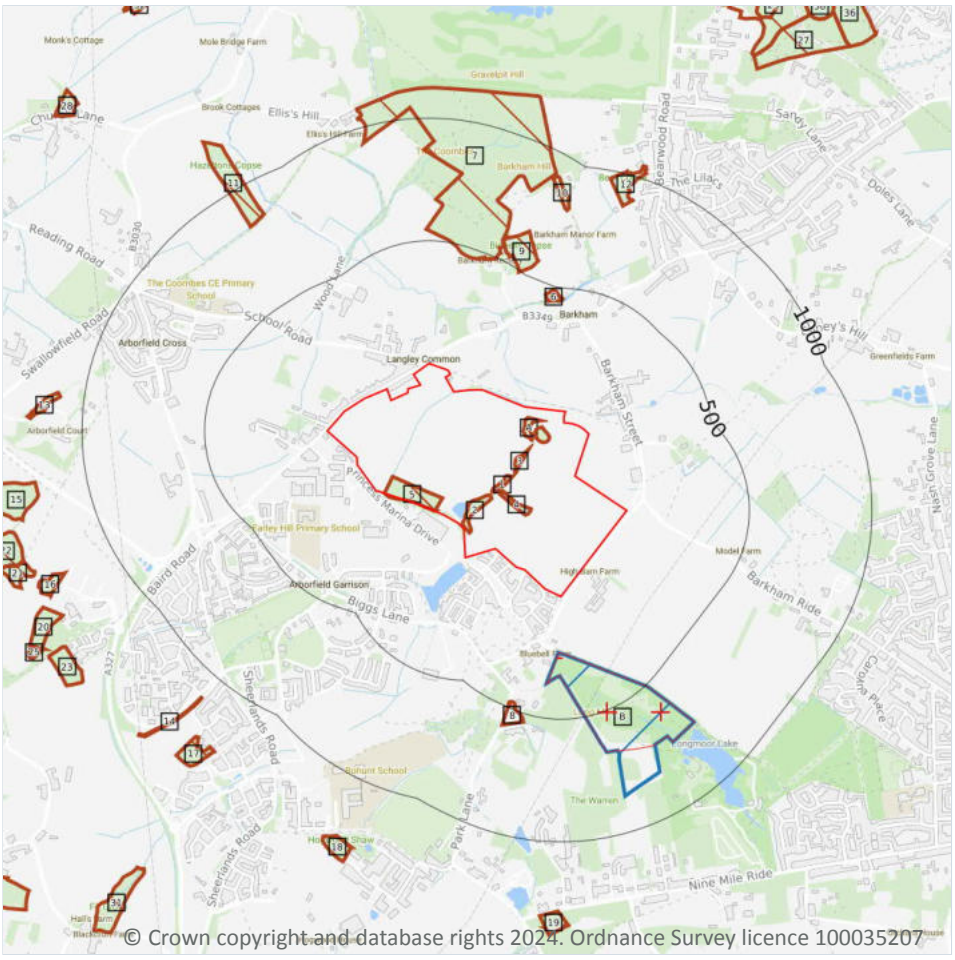
| | |
|---|---|
| **Highest risk on site** | **Moderate** |
| **Highest risk within 50m** | **Moderate** |

Groundwater flooding is caused by unusually high groundwater levels. It occurs when the water table rises above the ground surface or within underground structures such as basements or cellars. Groundwater flooding tends to exhibit a longer duration than surface water flooding, possibly lasting for weeks or months, and as a result it can cause significant damage to property. This risk assessment is based on a 1 in 100 year return period and a 5m Digital Terrain Model (DTM).

Features are displayed on the Groundwater flooding map on **page 72 >**

*This data is sourced from Ambiental Risk Analytics.*

# 10 Environmental designations




Site Outline

Search buffers in metres (m)

Sites of Special Scientific Interest (SSSI)

Local Nature Reserves (LNR)

Designated Ancient Woodland

## 10.1 Sites of Special Scientific Interest (SSSI)

| Records within 2000m | 1 |
|---|---|

Sites providing statutory protection for the best examples of UK flora, fauna, or geological or physiographical features. Originally notified under the National Parks and Access to the Countryside Act 1949, SSSIs were re-notified under the Wildlife and Countryside Act 1981. Improved provisions for the protection and management of SSSIs were introduced by the Countryside and Rights of Way Act 2000 (in England and Wales) and (in Scotland) by the Nature Conservation (Scotland) Act 2004 and the Wildlife and Natural Environment (Scotland) Act 2010.

Features are displayed on the Environmental designations map on **page 73 >**

| ID | Location | Name | Data source |
|---|---|---|---|
| B | 228m S | Longmoor Bog | Natural England |

*This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.*

## 10.2 Conserved wetland sites (Ramsar sites)

| Records within 2000m | 0 |
|---|---|

Ramsar sites are designated under the Convention on Wetlands of International Importance, agreed in Ramsar, Iran, in 1971. They cover all aspects of wetland conservation and wise use, recognizing wetlands as ecosystems that are extremely important for biodiversity conservation in general and for the well-being of human communities. These sites cover a broad definition of wetland; marsh, fen, peatland or water, whether natural or artificial, permanent or temporary, with water that is static or flowing, fresh, brackish or salt, and even some marine areas.

*This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.*

## 10.3 Special Areas of Conservation (SAC)

| Records within 2000m | 0 |
|---|---|

Areas which have been identified as best representing the range and variety within the European Union of habitats and (non-bird) species listed on Annexes I and II to the Directive. SACs are designated under the EC Habitats Directive.

*This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.*

## 10.4 Special Protection Areas (SPA)

| Records within 2000m | 0 |
|---|---|

Sites classified by the UK Government under the EC Birds Directive, SPAs are areas of the most important habitat for rare (listed on Annex I to the Directive) and migratory birds within the European Union.

*This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.*

## 10.5 National Nature Reserves (NNR)

| Records within 2000m | 0 |
|---|---|

Sites containing examples of some of the most important natural and semi-natural terrestrial and coastal ecosystems in Great Britain. They are managed to conserve their habitats, provide special opportunities for scientific study or to provide public recreation compatible with natural heritage interests.

*This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.*

## 10.6 Local Nature Reserves (LNR)

| Records within 2000m | 1 |
|---|---|

Sites managed for nature conservation, and to provide opportunities for research and education, or simply enjoying and having contact with nature. They are declared by local authorities under the National Parks and Access to the Countryside Act 1949 after consultation with the relevant statutory nature conservation agency.

Features are displayed on the Environmental designations map on **page 73 >**

| ID | Location | Name | Data source |
|---|---|---|---|
| B | 227m S | Longmoor Bog | Natural England |

*This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.*

## 10.7 Designated Ancient Woodland

| Records within 2000m | 46 |
|---|---|

Ancient woodlands are classified as areas which have been wooded continuously since at least 1600 AD. This includes semi-natural woodland and plantations on ancient woodland sites. 'Wooded continuously' does not mean there is or has previously been continuous tree cover across the whole site, and not all trees within the woodland have to be old.

Features are displayed on the Environmental designations map on **page 73 >**

| ID | Location | Name | Woodland Type |
|---|---|---|---|
| **1** | **On site** | **Kidgem Copse (Tithe:kitchem Coppice)(tithe:kitchen Coppice)(osd=kidghans (?) Coppice)** | **Ancient & Semi-Natural Woodland** |
| **2** | **On site** | **Kidgem Copse (Tithe:kitchem Coppice)(tithe:kitchen Coppice)(osd=kidghans (?) Coppice)** | **Ancient & Semi-Natural Woodland** |
| **3** | **On site** | **Kidgem Copse (Tithe:kitchem Coppice)(tithe:kitchen Coppice)(osd=kidghans (?) Coppice)** | **Ancient & Semi-Natural Woodland** |
| **4** | **On site** | **Kidgem Copse (Tithe:kitchem Coppice)(tithe:kitchen Coppice)(osd=kidghans (?) Coppice)** | **Ancient & Semi-Natural Woodland** |
| **5** | **On site** | **Kidgem Copse (Tithe:kitchem Coppice)(tithe:kitchen Coppice)(osd=kidghans (?) Coppice)** | **Ancient & Semi-Natural Woodland** |
| **A** | **On site** | **Kidgem Copse (Tithe:kitchem Coppice)(tithe:kitchen Coppice)(osd=kidghans (?) Coppice)** | **Ancient & Semi-Natural Woodland** |
| **A** | **On site** | **Kidgem Copse (Tithe:kitchem Coppice)(tithe:kitchen Coppice)(osd=kidghans (?) Coppice)** | **Ancient & Semi-Natural Woodland** |
| 6 | 435m N | (Tithe:little Coppice) | Ancient & Semi-Natural Woodland |

| ID | Location | Name | Woodland Type |
|---|---|---|---|
| 7 | 464m N | The Coombes | Ancient & Semi-Natural Woodland |
| 8 | 472m S | (Tithe=411=the Clumps; Osd=long Moor) | Ancient & Semi-Natural Woodland |
| 9 | 493m N | Bignell's Copse(tithe:bignolds Coppice) | Ancient & Semi-Natural Woodland |
| 10 | 808m N | The Coombes | Ancient & Semi-Natural Woodland |
| 11 | 840m NW | (Epo2: Hazeltons Copse; Tithe:hazletons Copse) | Ancient & Semi-Natural Woodland |
| 12 | 871m NE | Bears Copse(tithe:bears Coppice) | Ancient & Semi-Natural Woodland |
| 13 | 1097m W | Unknown | Ancient & Semi-Natural Woodland |
| 14 | 1104m SW | Whitehall Copse (Tithe Map: White Hall Coppice)(tithe:white Hall Coppice) | Ancient & Semi-Natural Woodland |
| 15 | 1207m W | (Epo2:spring Copse. Tithe Map: Spring Coppice)(tithe:spring Coppice) | Ancient & Semi-Natural Woodland |
| 16 | 1217m W | Long Copse (Tithe Map: The Long Coppice)(tithe:long Coppice Hurdle Coppice) | Ancient & Semi-Natural Woodland |
| 17 | 1238m SW | Whitehall Copse (Tithe Map: White Hall Coppice)(tithe:white Hall Coppice) | Ancient & Semi-Natural Woodland |
| 18 | 1249m S | Hogwood Shaw(tithe: Hogwood Shaw) | Ancient & Semi-Natural Woodland |
| 19 | 1283m S | Unknown | Ancient & Semi-Natural Woodland |
| 20 | 1314m W | (Tithe Map: Hurdle Coppice)(tithe:long Coppice Hurdle Coppice) | Ancient & Semi-Natural Woodland |
| 21 | 1323m W | Long Copse (Tithe Map: The Long Coppice)(tithe:long Coppice Hurdle Coppice) | Ancient & Semi-Natural Woodland |
| 22 | 1334m W | Long Copse (Tithe Map: The Long Coppice)(tithe:long Coppice Hurdle Coppice) | Ancient & Semi-Natural Woodland |
| 23 | 1383m SW | Robinhood Copse (Tithe Map: Robin Hood's Coppice)(tithe:robin Wood Coppice) | Ancient & Semi-Natural Woodland |
| - | 1461m W | (Tithe Map: Coppice) | Ancient & Semi-Natural Woodland |

| ID | Location | Name | Woodland Type |
|---|---|---|---|
| 25 | 1467m W | Unknown | Ancient & Semi-Natural Woodland |
| - | 1505m S | (Tithe: Sandpit Copse) | Ancient & Semi-Natural Woodland |
| 27 | 1601m NE | Unknown | Ancient & Semi-Natural Woodland |
| 28 | 1635m NW | (Tithe Map: Brick Kiln Coppice)(tithe:brickkiln Coppice) | Ancient & Semi-Natural Woodland |
| 29 | 1641m NE | Unknown | Ancient & Semi-Natural Woodland |
| - | 1789m S | (Tithe: Garden Shaw) | Ancient & Semi-Natural Woodland |
| 31 | 1811m SW | (Epoch2:fir Grove)(tithe: Yew Tree Copse) | Ancient & Semi-Natural Woodland |
| 32 | 1827m NW | (Tithe:dog Kennel Copse) | Ancient & Semi-Natural Woodland |
| - | 1846m S | (Tithe: Redgates Shaw) | Ancient & Semi-Natural Woodland |
| - | 1872m W | Castle Copse (Tithe Map: Castle Coppice) | Ancient & Semi-Natural Woodland |
| - | 1879m W | Bottom Copse (Tithe Map: Bottoms Coppice)(tithe:bottom Coppice) | Ancient Replanted Woodland |
| 36 | 1887m NE | Unknown | Ancient & Semi-Natural Woodland |
| - | 1895m NE | Bottle Copse(tithe: Bottle Coppice) | Ancient & Semi-Natural Woodland |
| 38 | 1898m NE | Fox Hill(tithe: Fox Hill) | Ancient & Semi-Natural Woodland |
| - | 1902m W | Castle Copse (Tithe Map: Castle Coppice) | Ancient & Semi-Natural Woodland |
| - | 1905m NE | Bottle Copse(tithe: Bottle Coppice) | Ancient & Semi-Natural Woodland |
| - | 1918m W | Pound Copse (Tithe Map: Pound Coppice Wellan's Coppice)(tithe:pond Or Willans Coppice) | Ancient & Semi-Natural Woodland |
| - | 1962m W | Castle Copse (Tithe Map: Castle Coppice) | Ancient & Semi-Natural Woodland |
| - | 1984m W | Castle Copse (Tithe Map: Castle Coppice) | Ancient & Semi-Natural Woodland |

| ID | Location | Name | Woodland Type |
|---|---|---|---|
| - | 1994m NE | Round Hill(tithe: 363=limma Hill Plantation) | Ancient & Semi-Natural Woodland |

*This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.*

## 10.8 Biosphere Reserves

| Records within 2000m | 0 |
|---|---|

Biosphere Reserves are internationally recognised by UNESCO as sites of excellence to balance conservation and socioeconomic development between nature and people. They are recognised under the Man and the Biosphere (MAB) Programme with the aim of promoting sustainable development founded on the work of the local community.

*This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.*

## 10.9 Forest Parks

| Records within 2000m | 0 |
|---|---|

These are areas managed by the Forestry Commission designated on the basis of recreational, conservation or scenic interest.

*This data is sourced from the Forestry Commission.*

## 10.10 Marine Conservation Zones

| Records within 2000m | 0 |
|---|---|

A type of marine nature reserve in UK waters established under the Marine and Coastal Access Act (2009). They are designated with the aim to protect nationally important, rare or threatened habitats and species.

*This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.*

## 10.11 Green Belt

| Records within 2000m | 0 |
|---|---|

Areas designated to prevent urban sprawl by keeping land permanently open.

*This data is sourced from the Ministry of Housing, Communities and Local Government.*

## 10.12 Proposed Ramsar sites

| Records within 2000m | 0 |
|---|---|

Ramsar sites are areas listed as a Wetland of International Importance under the Convention on Wetlands of International Importance especially as Waterfowl Habitat (the Ramsar Convention) 1971. The sites here supplied have a status of 'Proposed' having been identified for potential adoption under the framework.

*This data is sourced from Natural England.*

## 10.13 Possible Special Areas of Conservation (pSAC)

| Records within 2000m | 0 |
|---|---|

Special Areas of Conservation are areas which have been identified as best representing the range and variety within the European Union of habitats and (non-bird) species listed on Annexes I and II to the Directive. SACs are designated under the EC Habitats Directive. Those sites supplied here are those with a status of 'Possible' having been identified for potential adoption under the framework.

*This data is sourced from Natural England and Natural Resources Wales.*

## 10.14 Potential Special Protection Areas (pSPA)

| Records within 2000m | 0 |
|---|---|

Special Protection Areas (SPAs) are areas designated (or ‘classified’) under the European Union Wild Birds Directive for the protection of nationally and internationally important populations of wild birds. Those sites supplied here are those with a status of 'Potential' having been identified for potential adoption under the framework.

*This data is sourced from Natural England.*

## 10.15 Nitrate Sensitive Areas

| Records within 2000m | 0 |
|---|---|

Areas where nitrate concentrations in drinking water sources exceeded or was at risk of exceeding the limit of 50 mg/l set by the 1980 EC Drinking Water Directive. Voluntary agricultural measures as a means of reducing the levels of nitrate were introduced by DEFRA as MAFF, with payments being made to farmers who complied. The scheme was started as a pilot in 1990 in ten areas, later implemented within 32 areas. The scheme was closed to further new entrants in 1998, although existing agreements continued for their full term. All Nitrate Sensitive Areas fell within the areas designated as Nitrate Vulnerable Zones (NVZs) in 1996 under the EC Nitrate Directive (91/676/EEC).

*This data is sourced from Natural England.*

## 10.16 Nitrate Vulnerable Zones

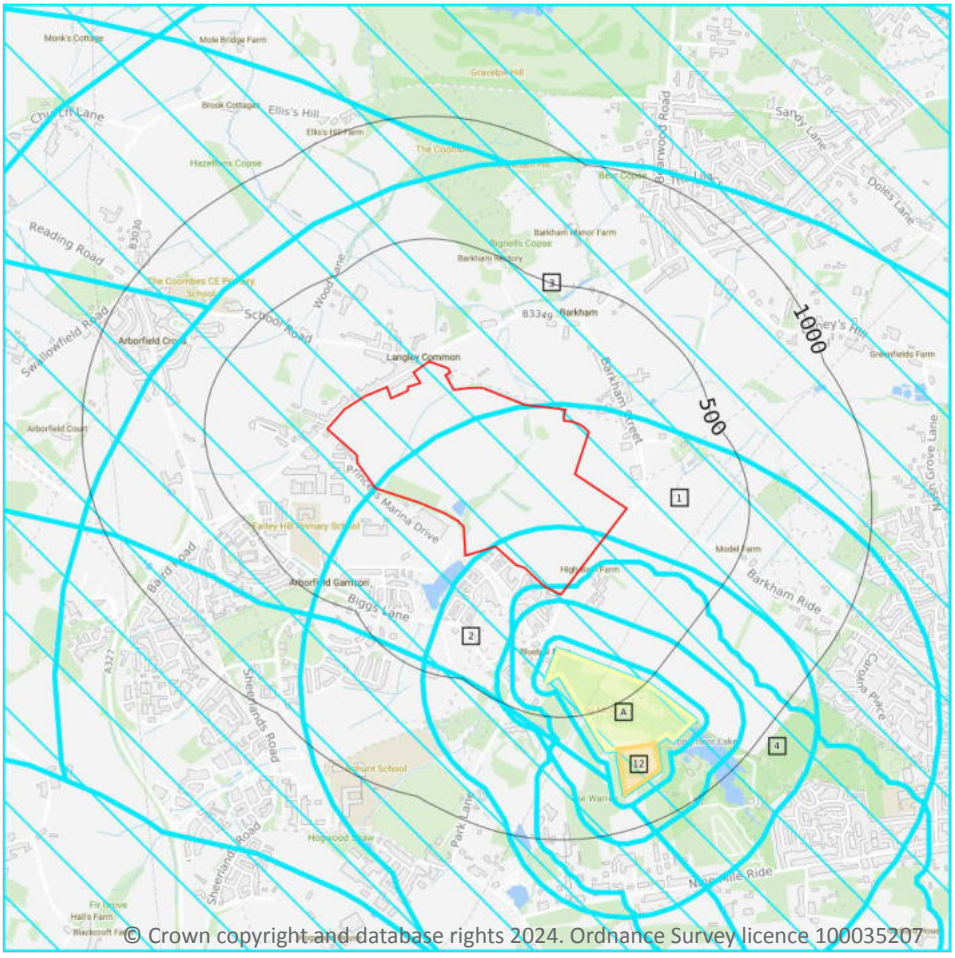
| Records within 2000m | 4 |
|---|---|

Areas at risk from agricultural nitrate pollution designated under the EC Nitrate Directive (91/676/EEC). These are areas of land that drain into waters polluted by nitrates. Farmers operating within these areas have to follow mandatory rules to tackle nitrate loss from agriculture.

| Location | Name | Type | NVZ ID | Status |
|---|---|---|---|---|
| **On site** | **Barkham Brook NVZ** | **Surface Water** | **449** | **Existing** |
| **On site** | **Barkham Brook NVZ** | **Surface Water** | **449** | **Existing** |
| 1415m NE | Emm Brook NVZ | Surface Water | 460 | Existing |
| 1909m E | Emm Brook NVZ | Surface Water | 460 | Existing |

*This data is sourced from Natural England and Natural Resources Wales.*

# SSSI Impact Zones and Units




© Crown copyright and database rights 2024. Ordnance Survey licence 100035207

Site Outline

Search buffers in metres (m)

SSSI Impact Risk Zones

SSSI Units

- Not recorded
- Favourable
- Unfavourable - Recovering
- Unfavourable - No change
- Unfavourable - Declining
- Partially destroyed
- Destroyed

## 10.17 SSSI Impact Risk Zones

| Records on site | 4 |
|---|---|

Developed to allow rapid initial assessment of the potential risks to SSSIs posed by development proposals. They define zones around each SSSI which reflect the particular sensitivities of the features for which it is notified and indicate the types of development proposal which could potentially have adverse impacts.

Features are displayed on the SSSI Impact Zones and Units map on **page 81 >**

| ID | Location | Type of developments requiring consultation |
|---|---|---|
| 1 | On site | Infrastructure - Pipelines and underground cables, pylons and overhead cables. Any transport proposal including road, rail and by water (excluding routine maintenance). Airports, helipads and other aviation proposals.<br>Minerals, Oil and Gas - Planning applications for quarries, including: new proposals, Review of Minerals Permissions (ROMP), extensions, variations to conditions etc. Oil & gas exploration/extraction.<br>Residential - Residential development of 100 units or more.<br>Rural residential - Any residential development of 50 or more houses outside existing settlements/urban areas.<br>Air pollution - Any industrial/agricultural development that could cause AIR POLLUTION (incl: industrial processes, livestock & poultry units with floorspace > 500m², slurry lagoons & digestate stores > 200m², manure stores > 250t).<br>Combustion - General combustion processes >20MW energy input. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion.<br>Waste - Landfill. Incl: inert landfill, non-hazardous landfill, hazardous landfill.<br>Composting - Any composting proposal with more than 500 tonnes maximum annual operational throughput. Incl: open windrow composting, in-vessel composting, anaerobic digestion, other waste management.<br>Water supply - Large infrastructure such as warehousing / industry where net additional gross internal floorspace is > 1,000m² or any development needing its own water supply .<br>Notes: Strategic solutions for recreational impacts are in place. Please contact your Local Planning Authority as they have the information to advise on specific requirements. |
| 2 | On site | Infrastructure - Pipelines and underground cables, pylons and overhead cables. Any transport proposal including road, rail and by water (excluding routine maintenance). Airports, helipads and other aviation proposals.<br>Minerals, Oil and Gas - Planning applications for quarries, including: new proposals, Review of Minerals Permissions (ROMP), extensions, variations to conditions etc. Oil & gas exploration/extraction.<br>Residential - Residential development of 100 units or more.<br>Rural residential - Any residential development of 50 or more houses outside existing settlements/urban areas.<br>Air pollution - Any development that could cause AIR POLLUTION (incl: industrial/commercial processes, livestock & poultry units, slurry lagoons & digestate stores, manure stores).<br>Combustion - All general combustion processes. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion.<br>Waste - Mechanical and biological waste treatment, inert landfill, non-hazardous landfill, hazardous landfill, household civic amenity recycling facilities construction, demolition and excavation waste, other waste management.<br>Composting - Any composting proposal. Incl: open windrow composting, in-vessel composting, anaerobic digestion, other waste management.<br>Water supply - Large infrastructure such as warehousing / industry where net additional gross internal floorspace is > 1,000m² or any development needing its own water supply .<br>Notes: Strategic solutions for recreational impacts are in place. Please contact your Local Planning Authority as they have the information to advise on specific requirements. |

| ID | Location | Type of developments requiring consultation |
|---|---|---|
| 3 | On site | Infrastructure - Pipelines and underground cables, pylons and overhead cables. Any transport proposal including road, rail and by water (excluding routine maintenance). Airports, helipads and other aviation proposals.<br>Minerals, Oil and Gas - Planning applications for quarries, including: new proposals, Review of Minerals Permissions (ROMP), extensions, variations to conditions etc. Oil & gas exploration/extraction.<br>Air pollution - Any industrial/agricultural development that could cause AIR POLLUTION (incl: industrial processes, livestock & poultry units with floorspace > 500m², slurry lagoons & digestate stores > 200m², manure stores > 250t).<br>Combustion - General combustion processes >20MW energy input. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion.<br>Waste - Landfill. Incl: inert landfill, non-hazardous landfill, hazardous landfill.<br>Composting - Any composting proposal with more than 75000 tonnes maximum annual operational throughput. Incl: open windrow composting, in-vessel composting, anaerobic digestion, other waste management.<br>Water supply - Large infrastructure such as warehousing / industry where total net additional gross internal floorspace following development is 1,000m² or more.<br>Notes: Strategic solutions for recreational impacts are in place. Please contact your Local Planning Authority as they have the information to advise on specific requirements. |
| 4 | On site | Infrastructure - Pipelines and underground cables, pylons and overhead cables. Any transport proposal including road, rail and by water (excluding routine maintenance). Airports, helipads and other aviation proposals.<br>Minerals, Oil and Gas - Planning applications for quarries, including: new proposals, Review of Minerals Permissions (ROMP), extensions, variations to conditions etc. Oil & gas exploration/extraction.<br>Rural non-residential - Large non residential developments outside existing settlements/urban areas where net additional gross internal floorspace is > 1,000m² or footprint exceeds 0.2ha.<br>Residential - Residential development of 100 units or more.<br>Rural residential - Any residential development of 50 or more houses outside existing settlements/urban areas.<br>Air pollution - Any development that could cause AIR POLLUTION (incl: industrial/commercial processes, livestock & poultry units, slurry lagoons & digestate stores, manure stores).<br>Combustion - All general combustion processes. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion.<br>Waste - Mechanical and biological waste treatment, inert landfill, non-hazardous landfill, hazardous landfill, household civic amenity recycling facilities construction, demolition and excavation waste, other waste management.<br>Composting - Any composting proposal. Incl: open windrow composting, in-vessel composting, anaerobic digestion, other waste management.<br>Discharges - Any discharge of water or liquid waste that is discharged to ground (ie to seep away) or to surface water, such as a beck or stream.<br>Water supply - Large infrastructure such as warehousing / industry where net additional gross internal floorspace is > 1,000m² or any development needing its own water supply .<br>Notes: Strategic solutions for recreational impacts are in place. Please contact your Local Planning Authority as they have the information to advise on specific requirements. |

*This data is sourced from Natural England.*

## 10.18 SSSI Units

| Records within 2000m | 2 |
|---|---|

Divisions of SSSIs used to record management and condition details. Units are the smallest areas for which Natural England gives a condition assessment, however, the size of units varies greatly depending on the types of management and the conservation interest.

Features are displayed on the SSSI Impact Zones and Units map on **page 81 >**

ID: A
Location: 228m S
SSSI name: Longmoor Bog
Unit name: Wdc
Broad habitat: Fen, Marsh And Swamp - Lowland
Condition: Unfavourable - Recovering
Reportable features:

| Feature name | Feature condition | Date of assessment |
|---|---|---|
| Lowland fens, including basin, flood-plain, open water transition and valley fens | Unfavourable - Recovering | 22/07/2013 |
| Lowland wet heath | Unfavourable - Recovering | 22/07/2013 |
| Wet woodland | Favourable | 22/07/2013 |

ID: 12
Location: 671m SE
SSSI name: Longmoor Bog
Unit name: California
Broad habitat: Fen, Marsh And Swamp - Lowland
Condition: Unfavourable - No change
Reportable features:

| Feature name | Feature condition | Date of assessment |
|---|---|---|
| Lowland wet heath | Unfavourable - No change | 22/07/2013 |

*This data is sourced from Natural England and Natural Resources Wales.*

# 11 Visual and cultural designations

Site Outline

Search buffers in metres (m)

- Listed buildings
- Conservation areas
- Conservation areas - no data
- National Parks
- Areas of Outstanding Natural Beauty
- Registered parks and gardens
- Scheduled Monuments
- World Heritage Sites

## 11.1 World Heritage Sites

| Records within 250m | 0 |
|---|---|

Sites designated for their globally important cultural or natural interest requiring appropriate management and protection measures. World Heritage Sites are designated to meet the UK's commitments under the World Heritage Convention.

*This data is sourced from Historic England, Cadw and Historic Environment Scotland.*

## 11.2 Area of Outstanding Natural Beauty

| Records within 250m | 0 |
|---|---|

Areas of Outstanding Natural Beauty (AONB) are conservation areas, chosen because they represent 18% of the finest countryside. Each AONB has been designated for special attention because of the quality of their flora, fauna, historical and cultural associations, and/or scenic views. The National Parks and Access to the Countryside Act of 1949 created AONBs and the Countryside and Rights of Way Act, 2000 added further regulation and protection. There are likely to be restrictions to some developments within these areas.

*This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.*

## 11.3 National Parks

| Records within 250m | 0 |
|---|---|

In England and Wales, the purpose of National Parks is to conserve and enhance landscapes within the countryside whilst promoting public enjoyment of them and having regard for the social and economic well-being of those living within them. In Scotland National Parks have the additional purpose of promoting the sustainable use of the natural resources of the area and the sustainable social and economic development of its communities. The National Parks and Access to the Countryside Act 1949 established the National Park designation in England and Wales, and The National Parks (Scotland) Act 2000 in Scotland.

*This data is sourced from Natural England, Natural Resources Wales and the Scottish Government.*

## 11.4 Listed Buildings

| Records within 250m | 1 |
|---|---|

Buildings listed for their special architectural or historical interest. Building control in the form of 'listed building consent' is required in order to make any changes to that building which might affect its special interest. Listed buildings are graded to indicate their relative importance, however building controls apply to all buildings equally, irrespective of their grade, and apply to the interior and exterior of the building in its entirety, together with any curtilage structures.

Features are displayed on the Visual and cultural designations map on **page 85 >**

| ID | Location | Name | Grade | Reference Number | Listed date |
|---|---|---|---|---|---|
| 1 | 126m E | Barkham Square | II | 1118115 | 26/01/1967 |

*This data is sourced from Historic England, Cadw and Historic Environment Scotland.*

## 11.5 Conservation Areas

| Records within 250m | 0 |
|---|---|

Local planning authorities are obliged to designate as conservation areas any parts of their own area that are of special architectural or historic interest, the character and appearance of which it is desirable to preserve or enhance. Designation of a conservation area gives broader protection than the listing of individual buildings. All the features within the area, listed or otherwise, are recognised as part of its character. Conservation area designation is the means of recognising the importance of all factors and of ensuring that planning decisions address the quality of the landscape in its broadest sense.

*This data is sourced from Historic England, Cadw and Historic Environment Scotland.*

## 11.6 Scheduled Ancient Monuments

| Records within 250m | 0 |
|---|---|

A scheduled monument is an historic building or site that is included in the Schedule of Monuments kept by the Secretary of State for Digital, Culture, Media and Sport. The regime is set out in the Ancient Monuments and Archaeological Areas Act 1979. The Schedule of Monuments has c.20,000 entries and includes sites such as Roman remains, burial mounds, castles, bridges, earthworks, the remains of deserted villages and industrial sites. Monuments are not graded, but all are, by definition, considered to be of national importance.

*This data is sourced from Historic England, Cadw and Historic Environment Scotland.*

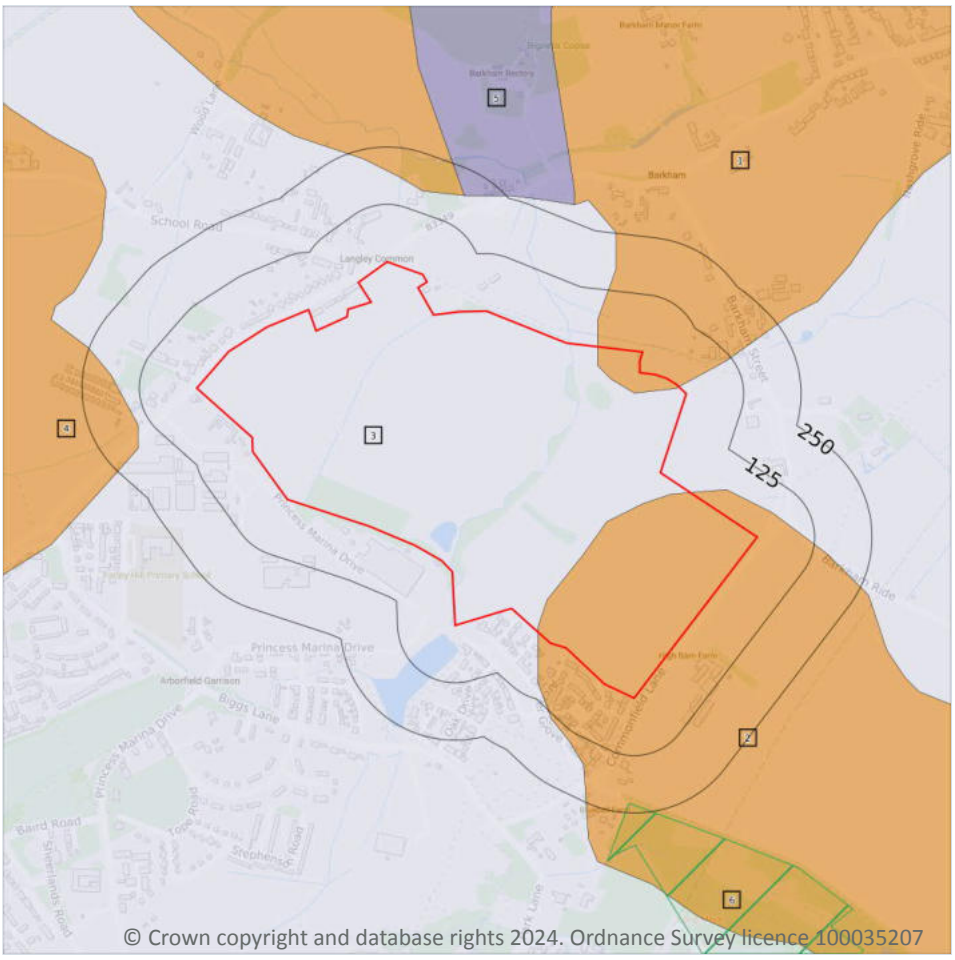
## 11.7 Registered Parks and Gardens

| Records within 250m | 0 |
|---|---|

Parks and gardens assessed to be of particular interest and of special historic interest. The emphasis being on 'designed' landscapes, rather than on planting or botanical importance. Registration is a 'material consideration' in the planning process, meaning that planning authorities must consider the impact of any proposed development on the special character of the landscape.

*This data is sourced from Historic England, Cadw and Historic Environment Scotland.*

# 12 Agricultural designations




Site Outline

Search buffers in metres (m)

- Grade 1 - excellent quality
- Grade 2 - very good quality
- Grade 3 - good to moderate quality
- Grade 3a - good quality
- Grade 3b - moderate quality
- Grade 4 - poor quality
- Grade 5 - very poor quality
- Non-agricultural land
- Urban land
- Exclusion land
- Tree felling licences
- Open Access land

## 12.1 Agricultural Land Classification

| Records within 250m | 5 |
|---|---|

Classification of the quality of agricultural land taking into consideration multiple factors including climate, physical geography and soil properties. It should be noted that the categories for the grading of agricultural land are not consistent across England, Wales and Scotland.

Features are displayed on the Agricultural designations map on **page 88 >**

| ID | Location | Classification | Description |
|---|---|---|---|
| **1** | **On site** | **Grade 3** | **Good to moderate quality agricultural land. Land with moderate limitations which affect the choice of crops, timing and type of cultivation, harvesting or the level of yield. Where more demanding crops are grown yields are generally lower or more variable than on land in Grades 1 and 2.** |

| ID | Location | Classification | Description |
|---|---|---|---|
| **2** | **On site** | **Grade 3** | **Good to moderate quality agricultural land. Land with moderate limitations which affect the choice of crops, timing and type of cultivation, harvesting or the level of yield. Where more demanding crops are grown yields are generally lower or more variable than on land in Grades 1 and 2.** |
| **3** | **On site** | **Grade 4** | **Poor quality agricultural land. Land with severe limitations which significantly restrict the range of crops and/or level of yields. It is mainly suited to grass with occasional arable crops (e.g. cereals and forage crops) the yields of which are variable. In moist climates, yields of grass may be moderate to high but there may be difficulties in utilisation. The grade also includes very droughty arable land.** |
| 4 | 151m W | Grade 3 | Good to moderate quality agricultural land. Land with moderate limitations which affect the choice of crops, timing and type of cultivation, harvesting or the level of yield. Where more demanding crops are grown yields are generally lower or more variable than on land in Grades 1 and 2. |
| 5 | 194m N | Non Agricultural | - |

*This data is sourced from Natural England.*

## 12.2 Open Access Land

| Records within 250m | 0 |
|---|---|

The Countryside and Rights of Way Act 2000 (CROW Act) gives a public right of access to land without having to use paths. Access land includes mountains, moors, heaths and downs that are privately owned. It also includes common land registered with the local council and some land around the England Coast Path. Generally permitted activities on access land are walking, running, watching wildlife and climbing.

*This data is sourced from Natural England and Natural Resources Wales.*

## 12.3 Tree Felling Licences

| Records within 250m | 1 |
|---|---|

Felling Licence Application (FLA) areas approved by Forestry Commission England. Anyone wishing to fell trees must ensure that a licence or permission under a grant scheme has been issued by the Forestry Commission before any felling is carried out or that one of the exceptions apply.

Features are displayed on the Agricultural designations map on **page 88 >**

| ID | Location | Description | Reference | Application date |
|---|---|---|---|---|
| 6 | 229m S | Selective Fell/Thin (Unconditional) | 019/426/99-00 | 28/06/2000 |

*This data is sourced from the Forestry Commission.*

## 12.4 Environmental Stewardship Schemes

| Records within 250m | 4 |
|---|---|

Environmental Stewardship covers a range of schemes that provide financial incentives to farmers, foresters and land managers to look after and improve the environment. The schemes identified may be historical schemes that have now expired, or may still be active.

| Location | Reference | Scheme | Start Date | End date |
|---|---|---|---|---|
| **On site** | **AG00514111** | **Organic Entry Level Stewardship** | **01/10/2013** | **30/09/2018** |
| **On site** | **AG00514111** | **Organic Entry Level Stewardship** | **01/10/2013** | **30/09/2018** |
| 83m E | AG00514111 | Organic Entry Level Stewardship | 01/10/2013 | 30/09/2018 |
| 227m S | AG00373849 | Higher Level Stewardship | 01/06/2011 | 31/05/2023 |

*This data is sourced from Natural England.*

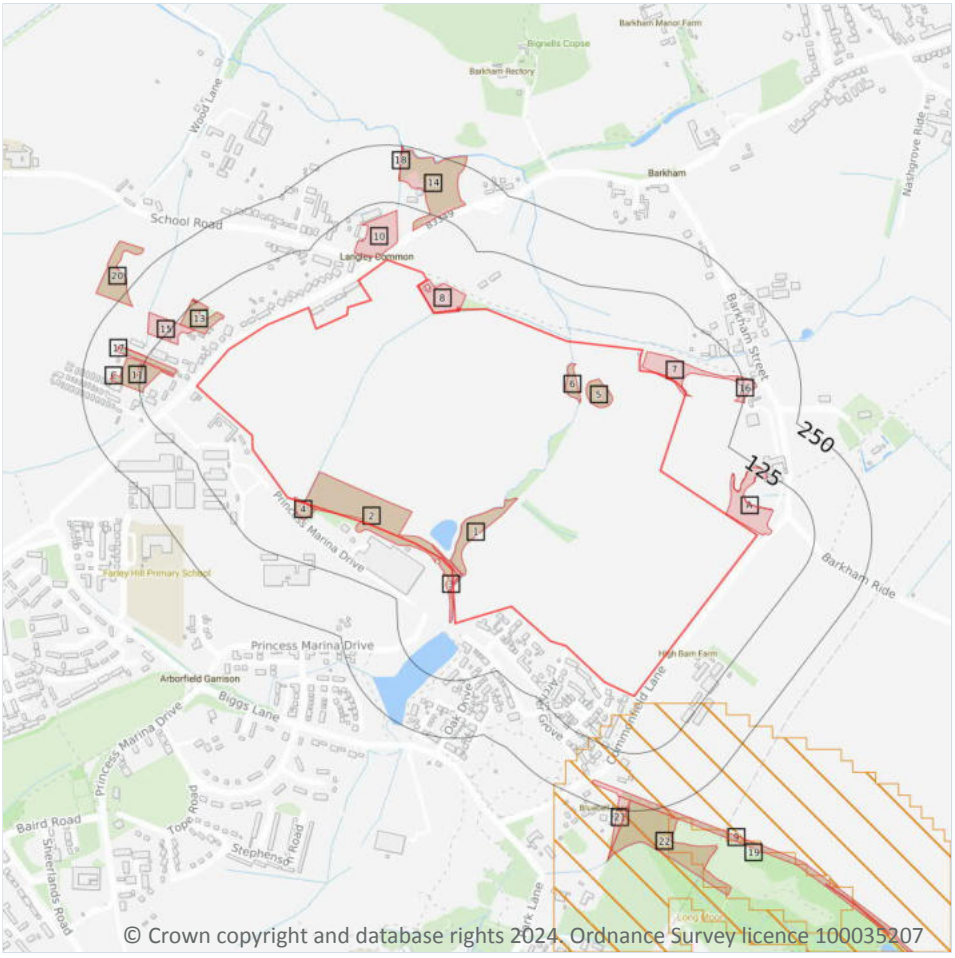
## 12.5 Countryside Stewardship Schemes

| Records within 250m | 0 |
|---|---|

Countryside Stewardship covers a range of schemes that provide financial incentives to farmers, foresters and land managers to look after and improve the environment. Main objectives are to improve the farmed environment for wildlife and to reduce diffuse water pollution.

*This data is sourced from Natural England.*

# 13 Habitat designations




## 13.1 Priority Habitat Inventory

| Records within 250m | 42 |
|---|---|

Habitats of principal importance as named under Natural Environment and Rural Communities Act (2006) Section 41.

Features are displayed on the Habitat designations map on **page 91 >**

| ID | Location | Main Habitat | Other habitats |
|---|---|---|---|
| **1** | **On site** | **Deciduous woodland** | **Main habitat: DWOOD (INV > 50%)** |
| **2** | **On site** | **Deciduous woodland** | **Main habitat: DWOOD (INV > 50%)** |
| **3** | **On site** | **Deciduous woodland** | **Main habitat: DWOOD (INV > 50%)** |
| **4** | **On site** | **Deciduous woodland** | **Main habitat: DWOOD (INV > 50%)** |

| ID | Location | Main Habitat | Other habitats |
|---|---|---|---|
| **5** | **On site** | **Deciduous woodland** | **Main habitat: DWOOD (INV > 50%)** |
| **6** | **On site** | **Deciduous woodland** | **Main habitat: DWOOD (INV > 50%)** |
| **7** | **On site** | **No main habitat but additional habitats present** | **Additional: TORCH (INV  50%)** |
| **8** | **On site** | **No main habitat but additional habitats present** | **Additional: TORCH (INV  50%)** |
| A | 1m E | Traditional orchard | Overruled by Traditional Orchards HAP Inventory dataset |
| 10 | 16m NW | Traditional orchard | Overruled by Traditional Orchards HAP Inventory dataset |
| A | 47m E | Traditional orchard | Main habitat: TORCH (INV > 50%) |
| A | 47m E | Traditional orchard | Overruled by Traditional Orchards HAP Inventory dataset |
| A | 51m E | Traditional orchard | Overruled by Traditional Orchards HAP Inventory dataset |
| B | 55m E | Traditional orchard | Overruled by Traditional Orchards HAP Inventory dataset |
| B | 55m E | Traditional orchard | Overruled by Traditional Orchards HAP Inventory dataset |
| 11 | 55m W | Traditional orchard | Overruled by Traditional Orchards HAP Inventory dataset |
| 12 | 55m W | Traditional orchard | Overruled by Traditional Orchards HAP Inventory dataset |
| B | 58m E | Traditional orchard | Main habitat: TORCH (INV > 50%) |
| B | 59m E | Traditional orchard | Overruled by Traditional Orchards HAP Inventory dataset |
| B | 59m E | Traditional orchard | Main habitat: TORCH (INV > 50%) |
| 13 | 61m NW | Deciduous woodland | Main habitat: DWOOD (INV > 50%) |
| B | 74m E | Traditional orchard | Main habitat: TORCH (INV > 50%) |
| 14 | 79m N | Deciduous woodland | Main habitat: DWOOD (INV > 50%) |
| B | 80m E | Traditional orchard | Overruled by Traditional Orchards HAP Inventory dataset |
| B | 82m E | Traditional orchard | Overruled by Traditional Orchards HAP Inventory dataset |
| 15 | 84m NW | No main habitat but additional habitats present | Main habitat: DWOOD (INV > 50%) |
| B | 91m E | Traditional orchard | Main habitat: TORCH (INV > 50%) |
| B | 95m E | Traditional orchard | Main habitat: TORCH (INV > 50%) |
| B | 97m E | Traditional orchard | Main habitat: TORCH (INV > 50%) |
| B | 98m E | Traditional orchard | Overruled by Traditional Orchards HAP Inventory dataset |
| B | 102m E | Traditional orchard | Main habitat: TORCH (INV > 50%) |

| ID | Location | Main Habitat | Other habitats |
|---|---|---|---|
| 16 | 108m E | Traditional orchard | Overruled by Traditional Orchards HAP Inventory dataset |
| B | 116m E | Traditional orchard | Main habitat: TORCH (INV > 50%) |
| B | 119m E | Traditional orchard | Main habitat: TORCH (INV > 50%) |
| 17 | 128m W | Traditional orchard | Overruled by Traditional Orchards HAP Inventory dataset |
| 18 | 174m N | Deciduous woodland | Main habitat: DWOOD (INV > 50%) |
| C | 181m W | Traditional orchard | Main habitat: TORCH (INV > 50%) |
| C | 184m W | Traditional orchard | Overruled by Traditional Orchards HAP Inventory dataset |
| 19 | 202m S | Deciduous woodland | Main habitat: DWOOD (INV > 50%) |
| 20 | 219m NW | Deciduous woodland | Main habitat: DWOOD (INV > 50%) |
| 21 | 220m S | Deciduous woodland | Main habitat: DWOOD (INV > 50%) |
| 22 | 227m S | Deciduous woodland | Main habitat: DWOOD (INV > 50%); LHEAT (ENSIS L1); Additional: LFENS (ENSIS L2) |

*This data is sourced from Natural England.*

## 13.2 Habitat Networks

| Records within 250m | 1 |
|---|---|

Habitat networks for 18 priority habitat networks (based primarily, but not exclusively, on the priority habitat inventory) and areas suitable for the expansion of networks through restoration and habitat creation.

Features are displayed on the Habitat designations map on **page 91 >**

| ID | Location | Type | Habitat |
|---|---|---|---|
| 9 | 16m SE | Network Enhancement Zone 1 | Not specified |

*This data is sourced from Natural England.*

## 13.3 Open Mosaic Habitat

| Records within 250m | 0 |
|---|---|

Sites verified as Open Mosaic Habitat. Mosaic habitats are brownfield sites that are identified under the UK Biodiversity Action Plan as a priority habitat due to the habitat variation within a single site, supporting an array of invertebrates.

*This data is sourced from Natural England.*

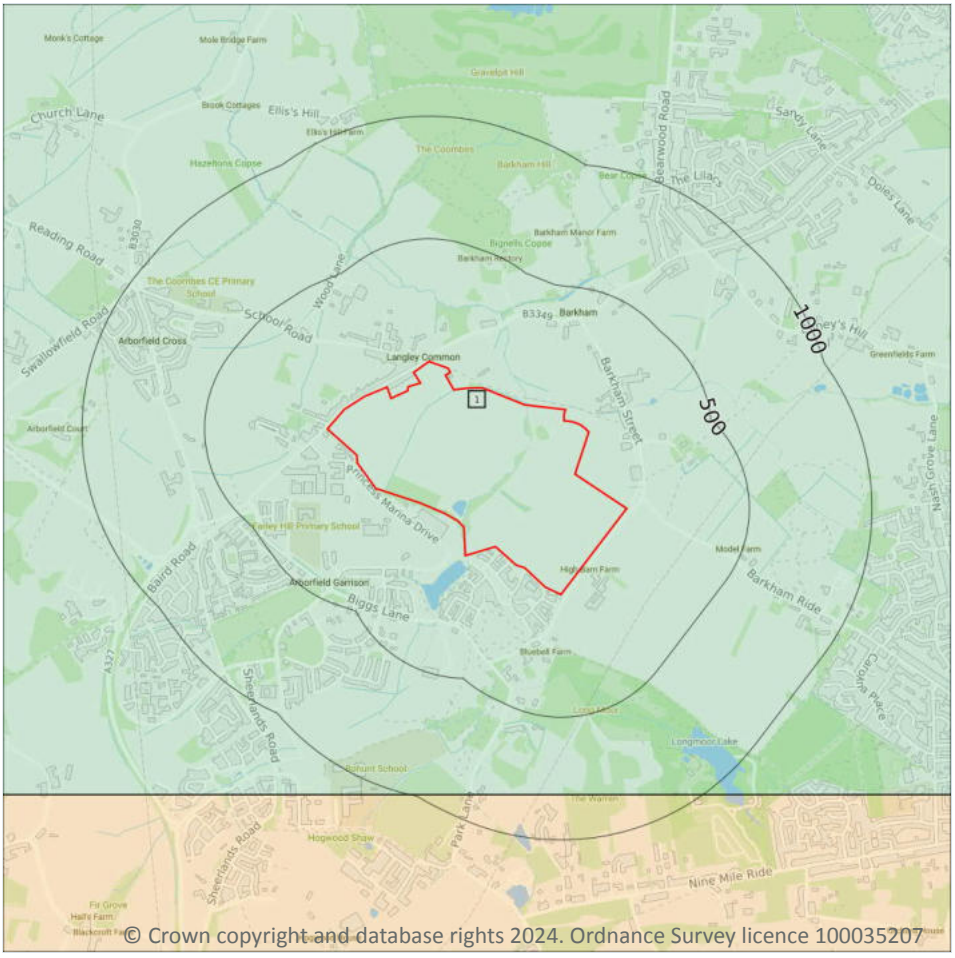
## 13.4 Limestone Pavement Orders

| Records within 250m | 0 |
|---|---|

Limestone pavements are outcrops of limestone where the surface has been worn away by natural means over millennia. These rocks have the appearance of paving blocks, hence their name. Not only do they have geological interest, they also provide valuable habitats for wildlife. These habitats are threatened due to their removal for use in gardens and water features. Many limestone pavements have been designated as SSSIs which affords them some protection. In addition, Section 34 of the Wildlife and Countryside Act 1981 gave them additional protection via the creation of Limestone Pavement Orders, which made it a criminal offence to remove any part of the outcrop. The associated Limestone Pavement Priority Habitat is part of the UK Biodiversity Action Plan priority habitat in England.

*This data is sourced from Natural England.*

# 14 Geology 1:10,000 scale - Availability




© Crown copyright and database rights 2024. Ordnance Survey licence 100035207

Site Outline

Search buffers in metres (m)

- Full coverage
- Partial coverage
- No coverage

## 14.1 10k Availability

| Records within 500m | 1 |
|---|---|

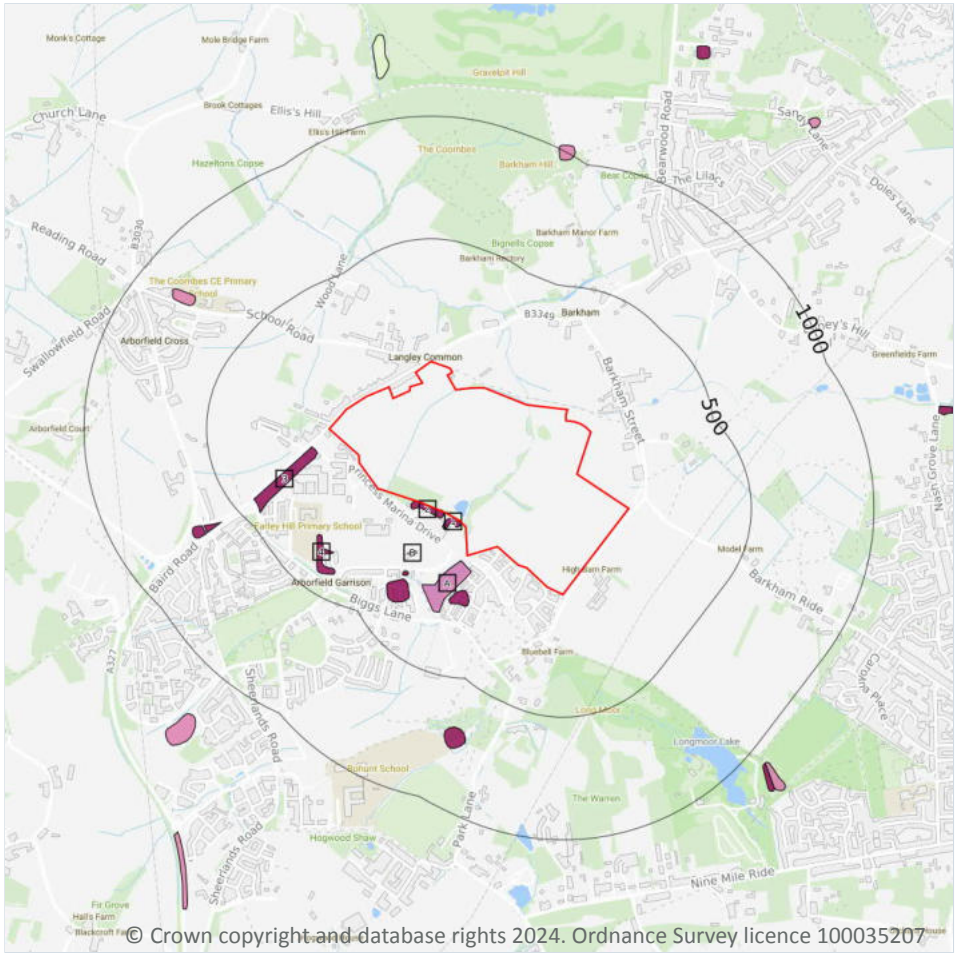
An indication on the coverage of 1:10,000 scale geology data for the site, the most detailed dataset provided by the British Geological Survey. Either 'Full', 'Partial' or 'No coverage' for each geological theme.

Features are displayed on the Geology 1:10,000 scale - Availability map on **page 95 >**

| ID | Location | Artificial | Superficial | Bedrock | Mass movement | Sheet No. |
|---|---|---|---|---|---|---|
| **1** | **On site** | **Full** | **Full** | **Full** | **No coverage** | **SU76NE** |

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

# Geology 1:10,000 scale - Artificial and made ground




Site Outline

Search buffers in metres (m)

- Reclaimed ground
- Made ground
- Worked ground
- Infilled ground
- Disturbed ground
- Landscaped ground

## 14.2 Artificial and made ground (10k)

| Records within 500m | 9 |
|---|---|

Details of made, worked, infilled, disturbed and landscaped ground at 1:10,000 scale. Artificial ground can be associated with potentially contaminated material, unpredictable engineering conditions and instability.

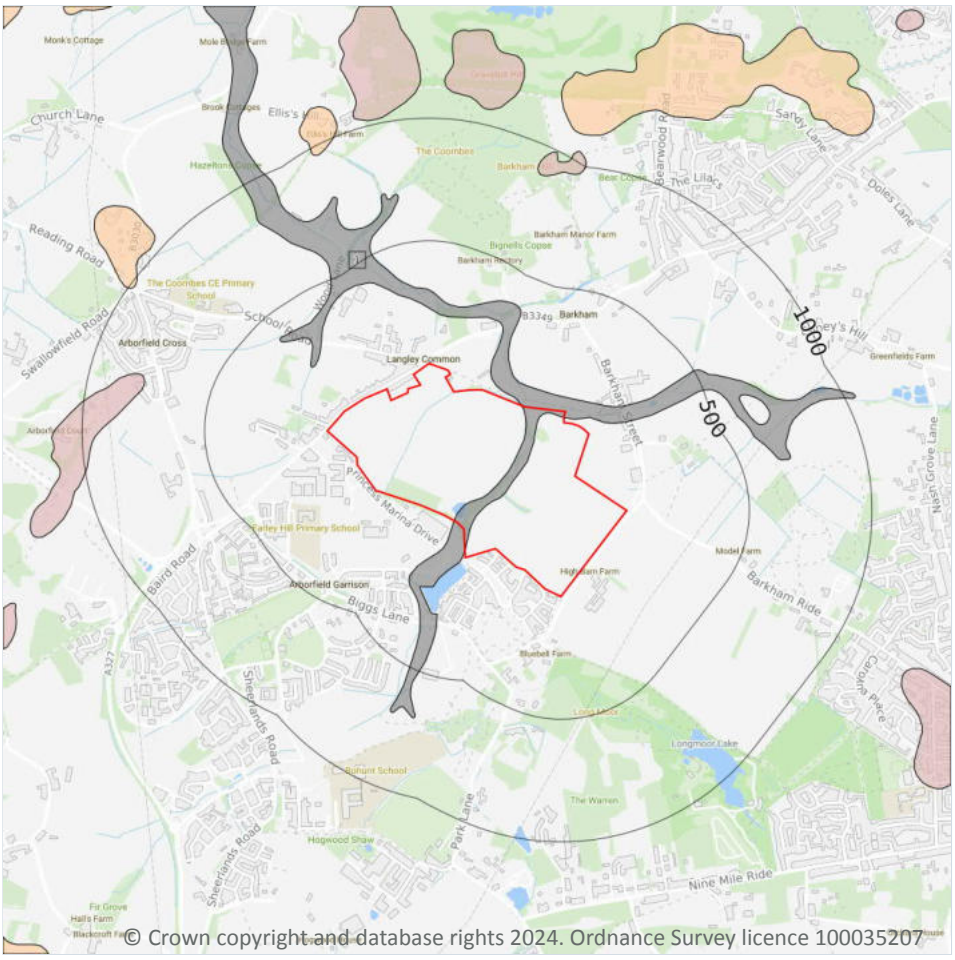
Features are displayed on the Geology 1:10,000 scale - Artificial and made ground map on **page 96 >**

| ID | Location | LEX Code | Description | Rock description |
|---|---|---|---|---|
| **1** | **On site** | **MGR-ARTDP** | **Made Ground (Undivided)** | **Artificial Deposit** |
| **2** | **On site** | **MGR-ARTDP** | **Made Ground (Undivided)** | **Artificial Deposit** |
| A | 33m S | WGR-VOID | Worked Ground (Undivided) | Void |
| 3 | 101m W | MGR-ARTDP | Made Ground (Undivided) | Artificial Deposit |

| ID | Location | LEX Code | Description | Rock description |
|---|---|---|---|---|
| A | 143m S | MGR-ARTDP | Made Ground (Undivided) | Artificial Deposit |
| B | 189m SW | MGR-ARTDP | Made Ground (Undivided) | Artificial Deposit |
| B | 249m SW | MGR-ARTDP | Made Ground (Undivided) | Artificial Deposit |
| B | 269m SW | MGR-ARTDP | Made Ground (Undivided) | Artificial Deposit |
| 4 | 298m W | MGR-ARTDP | Made Ground (Undivided) | Artificial Deposit |

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

# Geology 1:10,000 scale - Superficial




Site Outline

Search buffers in metres (m)

Landslip (10k)

Superficial geology (10k)
Please see table for more details.

## 14.3 Superficial geology (10k)

| Records within 500m | 1 |
|---|---|

Superficial geological deposits at 1:10,000 scale. Also known as 'drift', these are the youngest geological deposits, formed during the Quaternary. They rest on older deposits or rocks referred to as bedrock.

Features are displayed on the Geology 1:10,000 scale - Superficial map on **page 98 >**

| ID | Location | LEX Code | Description | Rock description |
|---|---|---|---|---|
| **1** | **On site** | **ALV-Z** | **Alluvium - Silt (unlithified Deposits Coding Scheme)** | **Silt** |

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

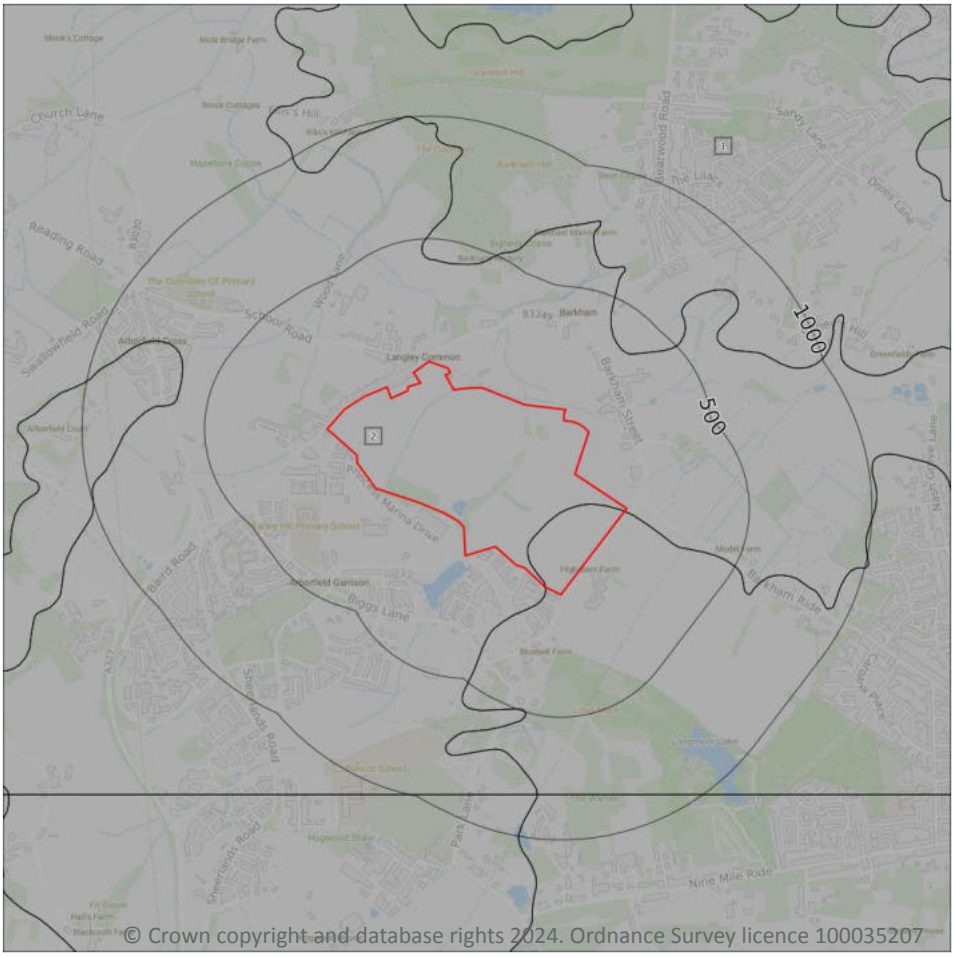
## 14.4 Landslip (10k)

| Records within 500m | 0 |
|---|---|

Mass movement deposits on BGS geological maps at 1:10,000 scale. Primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground.

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

# Geology 1:10,000 scale - Bedrock




© Crown copyright and database rights 2024. Ordnance Survey licence 100035207

Site Outline

Search buffers in metres (m)

Bedrock faults and other linear features (10k)

Bedrock geology (10k)
Please see table for more details.

## 14.5 Bedrock geology (10k)

| Records within 500m | 2 |
|---|---|

Bedrock geology at 1:10,000 scale. The main mass of rocks forming the Earth and present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

Features are displayed on the Geology 1:10,000 scale - Bedrock map on **page 100 >**

| ID | Location | LEX Code | Description | Rock age |
|---|---|---|---|---|
| **1** | **On site** | **BGS-SANDU** | **Bagshot Formation - Sand** | **Eocene Epoch** |
| **2** | **On site** | **LC-CLSISA** | **London Clay Formation - Clay, Silt And Sand** | **Eocene Epoch** |

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

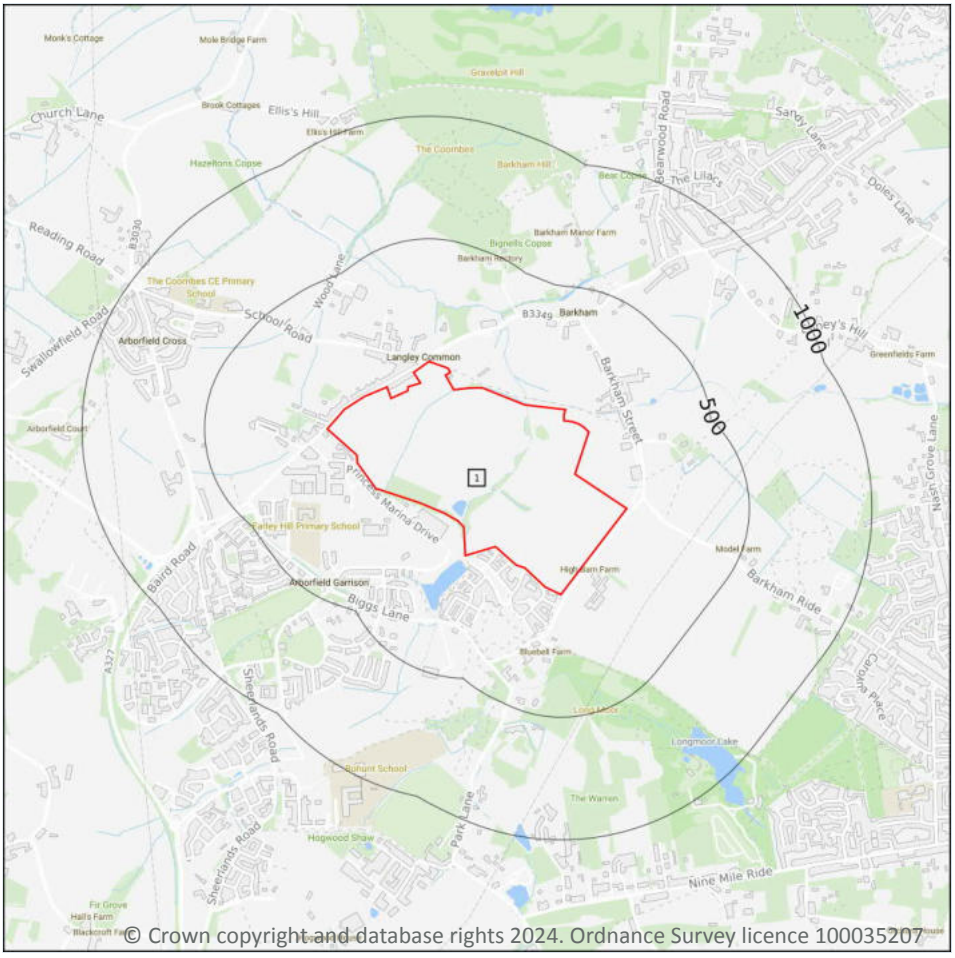
## 14.6 Bedrock faults and other linear features (10k)

| Records within 500m | 0 |
|---|---|

Linear features at the ground or bedrock surface at 1:10,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

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

# 15 Geology 1:50,000 scale - Availability




Site Outline

Search buffers in metres (m)

Geological map tile

## 15.1 50k Availability

| Records within 500m | 1 |
|---|---|

An indication on the coverage of 1:50,000 scale geology data for the site. Either 'Full' or 'No coverage' for each geological theme.

Features are displayed on the Geology 1:50,000 scale - Availability map on **page 102 >**

| ID | Location | Artificial | Superficial | Bedrock | Mass movement | Sheet No. |
|---|---|---|---|---|---|---|
| **1** | **On site** | **Full** | **Full** | **Full** | **No coverage** | **EW268_reading_v4** |

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

# Geology 1:50,000 scale - Artificial and made ground

## 15.2 Artificial and made ground (50k)

| Records within 500m | 0 |
|---|---|

Details of made, worked, infilled, disturbed and landscaped ground at 1:50,000 scale. Artificial ground can be associated with potentially contaminated material, unpredictable engineering conditions and instability.

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

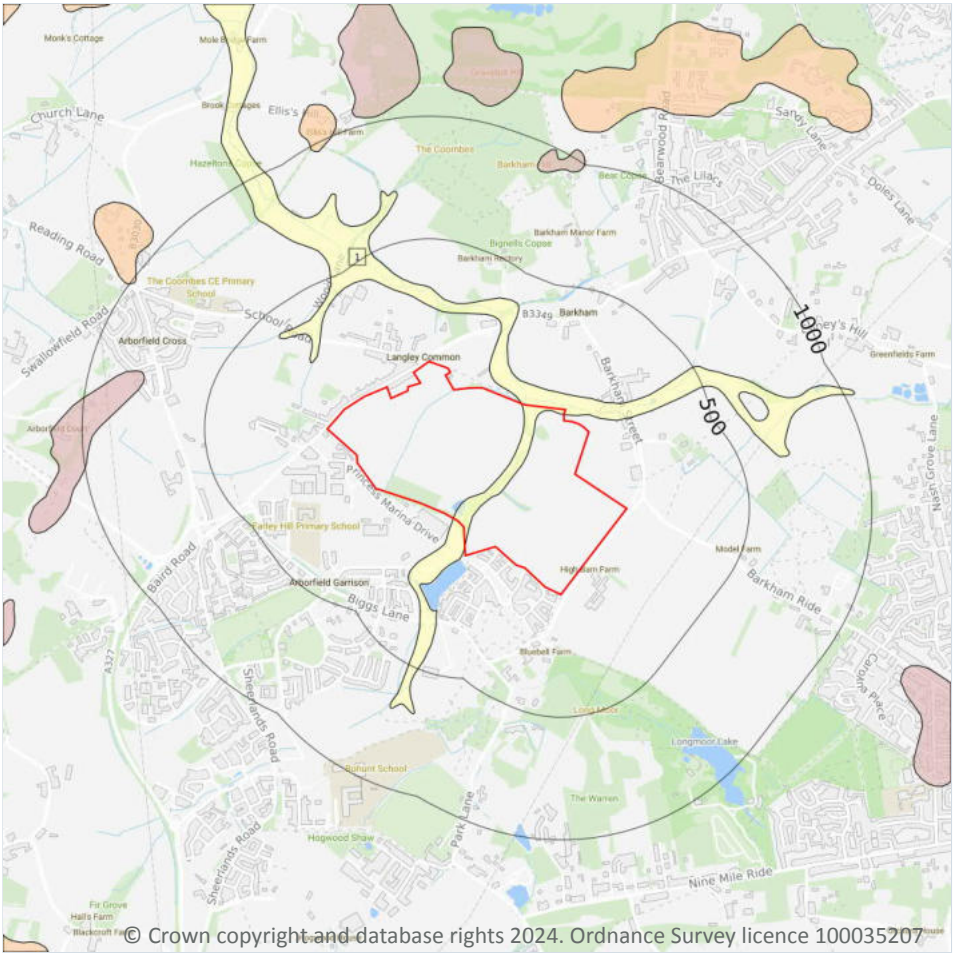
## 15.3 Artificial ground permeability (50k)

| Records within 50m | 0 |
|---|---|

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any artificial deposits (the zone between the land surface and the water table).

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

# Geology 1:50,000 scale - Superficial




Site Outline

Search buffers in metres (m)

Landslip (50k)

Superficial geology (50k)
Please see table for more details.

## 15.4 Superficial geology (50k)

| Records within 500m | 1 |
|---|---|

Superficial geological deposits at 1:50,000 scale. Also known as 'drift', these are the youngest geological deposits, formed during the Quaternary. They rest on older deposits or rocks referred to as bedrock.

Features are displayed on the Geology 1:50,000 scale - Superficial map on **page 104 >**

| ID | Location | LEX Code | Description | Rock description |
|---|---|---|---|---|
| **1** | **On site** | **ALV-XCZSV** | **ALLUVIUM** | **CLAY, SILT, SAND AND GRAVEL** |

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

## 15.5 Superficial permeability (50k)

| Records within 50m | 1 |
|---|---|

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any superficial deposits (the zone between the land surface and the water table).

| Location | Flow type | Maximum permeability | Minimum permeability |
|---|---|---|---|
| **On site** | **Intergranular** | **High** | **Very Low** |

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

## 15.6 Landslip (50k)

| Records within 500m | 0 |
|---|---|

Mass movement deposits on BGS geological maps at 1:50,000 scale. Primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground.

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

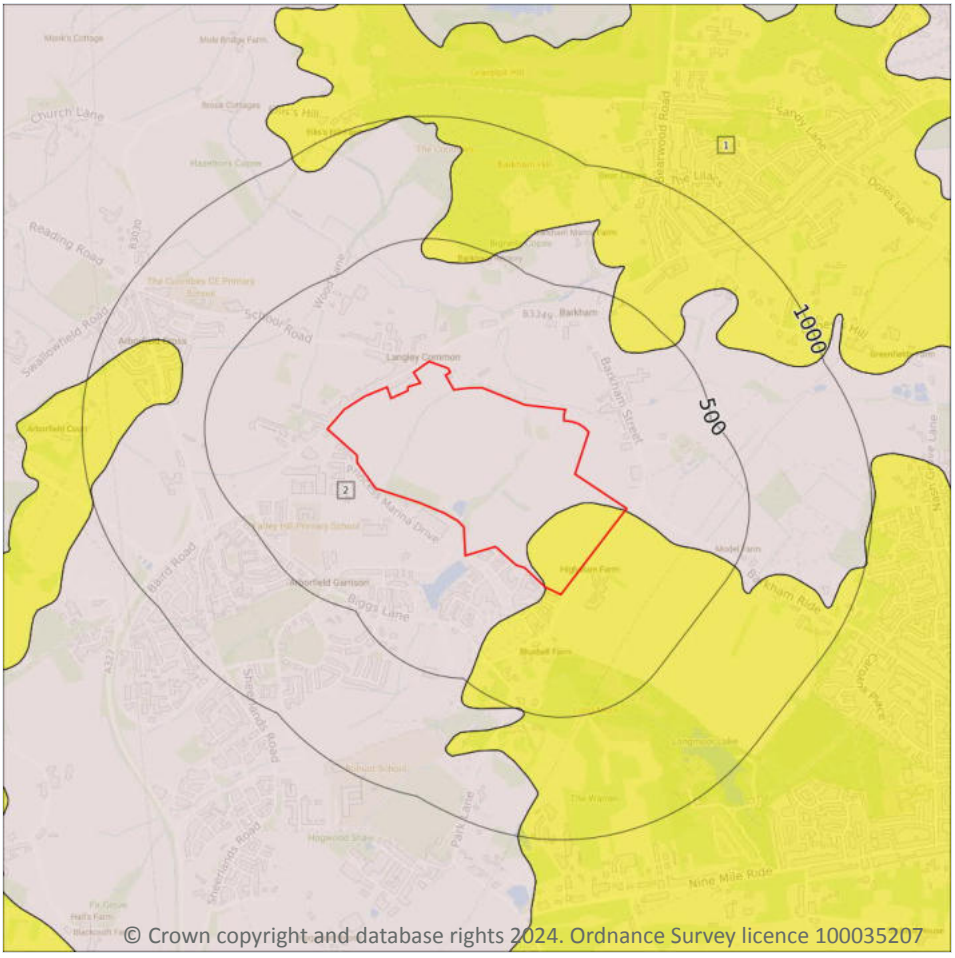
## 15.7 Landslip permeability (50k)

| Records within 50m | 0 |
|---|---|

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any landslip deposits (the zone between the land surface and the water table).

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

# Geology 1:50,000 scale - Bedrock




© Crown copyright and database rights 2024. Ordnance Survey licence 100035207

Site Outline

Search buffers in metres (m)

Bedrock faults and other linear features (50k)

Bedrock geology (50k)
Please see table for more details.

## 15.8 Bedrock geology (50k)

| Records within 500m | 2 |
|---|---|

Bedrock geology at 1:50,000 scale. The main mass of rocks forming the Earth and present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

Features are displayed on the Geology 1:50,000 scale - Bedrock map on **page 106 >**

| ID | Location | LEX Code | Description | Rock age |
|---|---|---|---|---|
| **1** | **On site** | **BGS-S** | **BAGSHOT FORMATION - SAND** | **YPRESIAN** |
| **2** | **On site** | **LC-XCZS** | **LONDON CLAY FORMATION - CLAY, SILT AND SAND** | **YPRESIAN** |

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

## 15.9 Bedrock permeability (50k)

| Records within 50m | 2 |
|---|---|

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of bedrock (the zone between the land surface and the water table).

| Location | Flow type | Maximum permeability | Minimum permeability |
|---|---|---|---|
| **On site** | **Intergranular** | **High** | **High** |
| **On site** | **Mixed** | **Moderate** | **Very Low** |

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

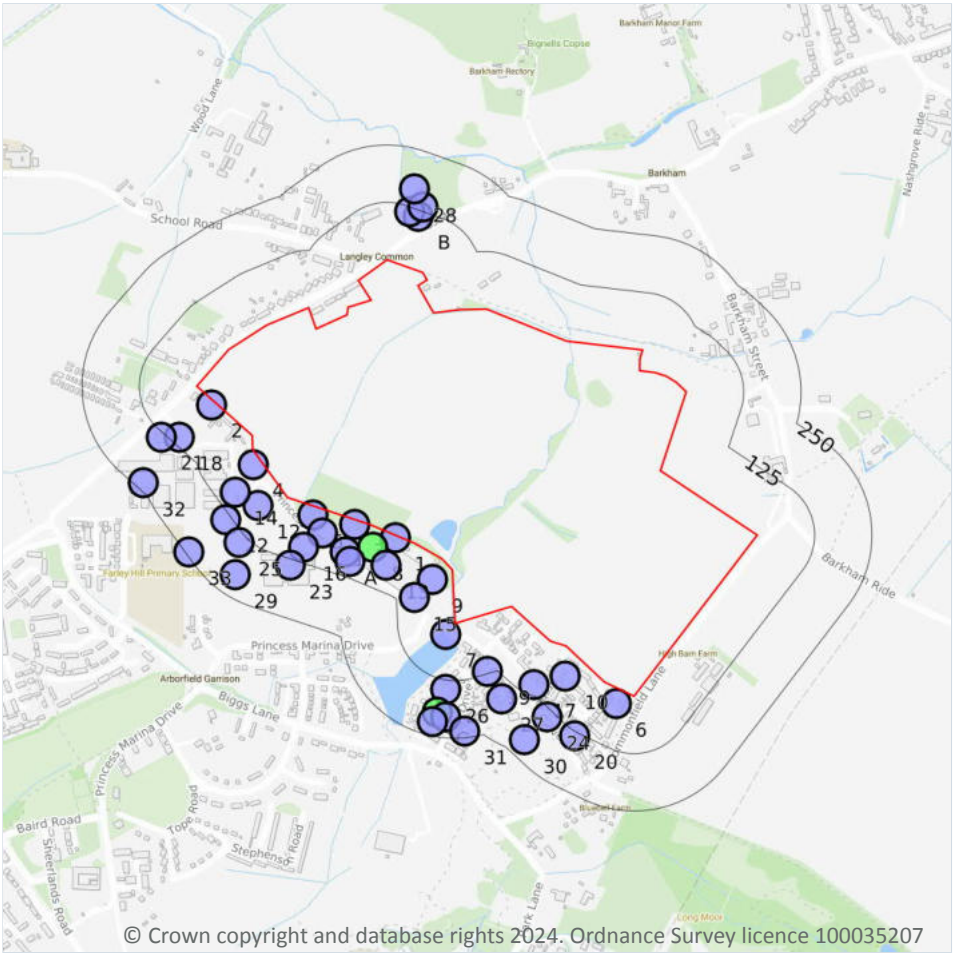
## 15.10 Bedrock faults and other linear features (50k)

| Records within 500m | 0 |
|---|---|

Linear features at the ground or bedrock surface at 1:50,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

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

# 16 Boreholes




## 16.1 BGS Boreholes

| Records within 250m | 41 |
|---|---|

The Single Onshore Boreholes Index (SOBI); an index of over one million records of boreholes, shafts and wells from all forms of drilling and site investigation work held by the British Geological Survey. Covering onshore and nearshore boreholes dating back to at least 1790 and ranging from one to several thousand metres deep.

Features are displayed on the Boreholes map on **page 108 >**

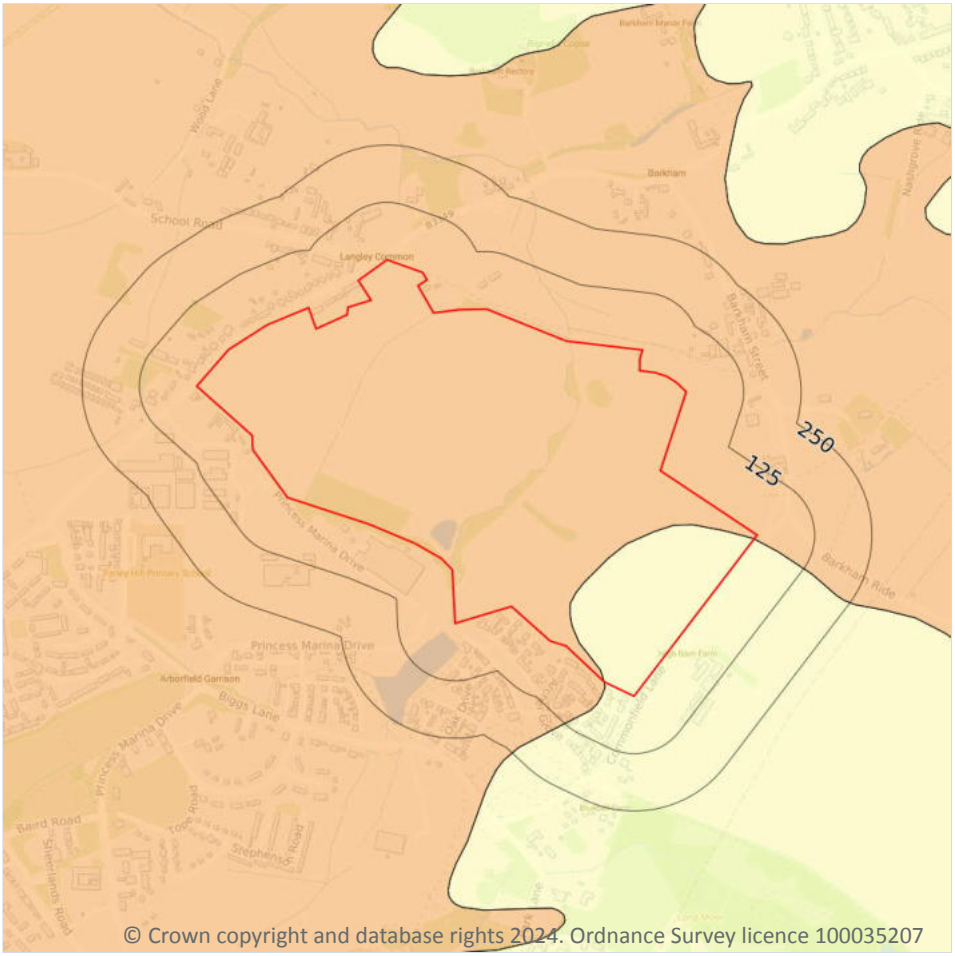
| ID | Location | Grid reference | Name | Length | Confidential | Web link |
|---|---|---|---|---|---|---|
| 1 | 5m SW | 477380 166160 | ARBORFIELD GARRISON 22 | 6.0 | N | 427010 ↗ |
| 2 | 9m W | 476980 166450 | ARBORFIELD GARRISON 54 | 3.0 | N | 427042 ↗ |
| 3 | 10m SW | 477290 166190 | ARBORFIELD GARRISON 21 | 6.0 | N | 427009 ↗ |

| ID | Location | Grid reference | Name | Length | Confidential | Web link |
|---|---|---|---|---|---|---|
| 4 | 18m W | 477070 166320 | ARBORFIELD GARRISON 55 | 3.0 | N | 427043 ↗ |
| 5 | 19m W | 477200 166210 | ARBORFIELD GARRISON 57 | 3.0 | N | 427045 ↗ |
| 6 | 31m SE | 477860 165800 | ARBORFIELD GARRISON 79 | 3.0 | N | 427067 ↗ |
| 7 | 31m S | 477490 165950 | ARBORFIELD GARRISON 70 | 3.0 | N | 427058 ↗ |
| 8 | 43m SW | 477330 166140 | ARBORFIELD GARRISON 23 | 15.0 | N | 427011 ↗ |
| 9 | 45m SW | 477460 166070 | ARBORFIELD GARRISON 66 | 3.0 | N | 427054 ↗ |
| 10 | 48m S | 477750 165860 | ARBORFIELD GARRISON 77 | 3.0 | N | 427065 ↗ |
| 11 | 51m W | 477220 166170 | ARBORFIELD GARRISON 58 | 3.0 | N | 427046 ↗ |
| 12 | 63m W | 477080 166230 | ARBORFIELD GARRISON 56 | 3.0 | N | 427044 ↗ |
| 13 | 69m SW | 477360 166100 | ARBORFIELD GARRISON 25 | 6.0 | N | 427013 ↗ |
| A | 73m SW | 477270 166130 | ARBORFIELD GARRISON 24 | 6.0 | N | 427012 ↗ |
| 14 | 86m W | 477030 166260 | ARBORFIELD GARRISON 29 | 6.0 | N | 427017 ↗ |
| 15 | 87m SW | 477420 166030 | ARBORFIELD GARRISON 65 | 3.0 | N | 427053 ↗ |
| A | 89m SW | 477280 166110 | ARBORFIELD GARRISON 61 | 3.0 | N | 427049 ↗ |
| 16 | 92m SW | 477180 166140 | ARBORFIELD GARRISON 60 | 3.0 | N | 427048 ↗ |
| 17 | 102m S | 477680 165840 | ARBORFIELD GARRISON 76 | 3.0 | N | 427064 ↗ |
| 18 | 107m W | 476910 166380 | ARBORFIELD GARRISON 27 | 10.0 | N | 427015 ↗ |
| B | 112m N | 477430 166860 | CALDWELL NURSERIES WOKINGHAM 5 | 4.0 | N | 427095 ↗ |
| B | 115m N | 477410 166870 | CALDWELL NURSERIES WOKINGHAM 3 | 4.0 | N | 427093 ↗ |
| 19 | 120m S | 477580 165870 | ARBORFIELD GARRISON 74 | 3.0 | N | 427062 ↗ |
| 20 | 133m S | 477770 165730 | ARBORFIELD GARRISON 81 | 3.0 | N | 427069 ↗ |
| 21 | 134m W | 476870 166380 | ARBORFIELD GARRISON 26 | 2.0 | N | 427014 ↗ |
| B | 134m N | 477440 166880 | CALDWELL NURSERIES WOKINGHAM 4 | 4.0 | N | 427094 ↗ |
| 22 | 137m W | 477010 166200 | ARBORFIELD GARRISON 31 | 10.0 | N | 427019 ↗ |
| 23 | 139m SW | 477150 166100 | ARBORFIELD GARRISON 36 | 6.0 | N | 427024 ↗ |
| 24 | 141m S | 477710 165770 | ARBORFIELD GARRISON 78 | 3.0 | N | 427066 ↗ |
| 25 | 143m W | 477040 166150 | ARBORFIELD GARRISON 59 | 3.0 | N | 427047 ↗ |
| 26 | 146m S | 477490 165830 | ARBORFIELD GARRISON 73 | 3.0 | N | 427061 ↗ |

| ID | Location | Grid reference | Name | Length | Confidential | Web link |
|---|---|---|---|---|---|---|
| 27 | 165m S | 477610 165810 | ARBORFIELD GARRISON 75 | 3.0 | N | 427063 ↗ |
| 28 | 165m N | 477420 166920 | CALDWELL NURSERIES WOKINGHAM 2 | 4.0 | N | 427092 ↗ |
| C | 198m S | 477470 165780 | ARBORFIELD GARRISON 46 | 20.0 | N | 427034 ↗ |
| 29 | 204m SW | 477030 166080 | ARBORFIELD GARRISON 35 | 10.0 | N | 427023 ↗ |
| C | 205m S | 477490 165770 | ARBORFIELD GARRISON 47 | 10.0 | N | 427035 ↗ |
| 30 | 212m S | 477660 165720 | ARBORFIELD GARRISON 80 | 3.0 | N | 427068 ↗ |
| C | 220m S | 477460 165760 | ARBORFIELD GARRISON 45 | 10.0 | N | 427033 ↗ |
| 31 | 235m S | 477530 165740 | ARBORFIELD GARRISON 48 | 10.0 | N | 427036 ↗ |
| 32 | 235m W | 476830 166280 | ARBORFIELD GARRISON 28 | 9.0 | N | 427016 ↗ |
| 33 | 243m W | 476930 166130 | ARBORFIELD GARRISON 33 | 6.0 | N | 427021 ↗ |

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

# 17 Natural ground subsidence - Shrink swell clays




Site Outline

Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

## 17.1 Shrink swell clays

| Records within 50m | 2 |
|---|---|

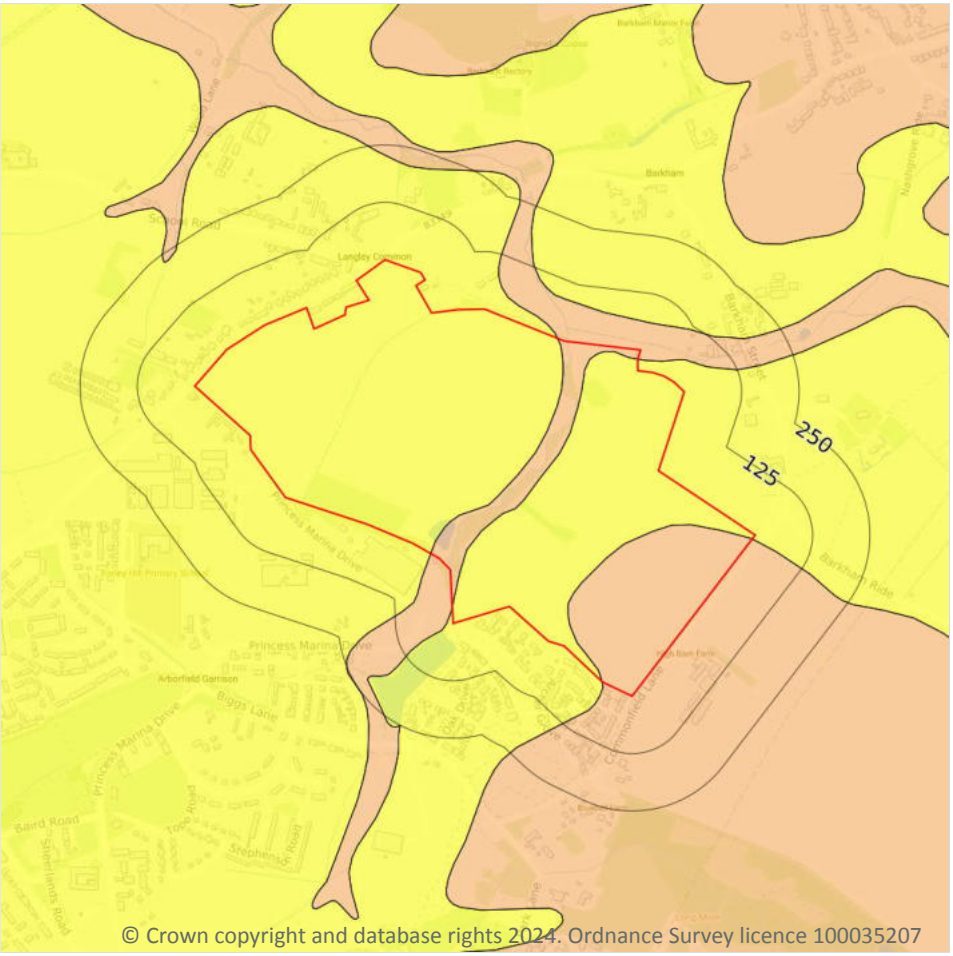
The potential hazard presented by soils that absorb water when wet (making them swell), and lose water as they dry (making them shrink). This shrink-swell behaviour is controlled by the type and amount of clay in the soil, and by seasonal changes in the soil moisture content (related to rainfall and local drainage).

Features are displayed on the Natural ground subsidence - Shrink swell clays map on **page 111 >**

| Location | Hazard rating | Details |
|---|---|---|
| **On site** | **Negligible** | **Ground conditions predominantly non-plastic.** |
| **On site** | **Low** | **Ground conditions predominantly medium plasticity.** |

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

# Natural ground subsidence - Running sands




Site Outline

Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

## 17.2 Running sands

| Records within 50m | 2 |
|---|---|

The potential hazard presented by rocks that can contain loosely-packed sandy layers that can become fluidised by water flowing through them. Such sands can 'run', removing support from overlying buildings and causing potential damage.

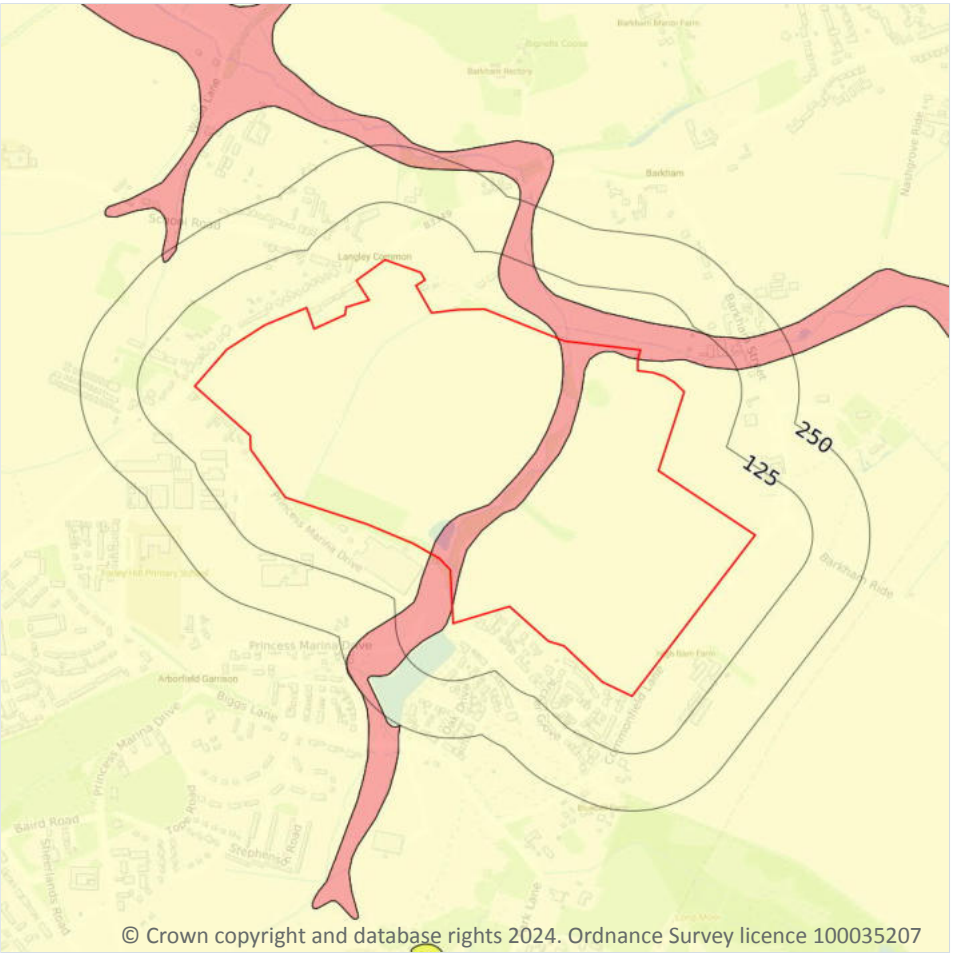
Features are displayed on the Natural ground subsidence - Running sands map on **page 112 >**

| Location | Hazard rating | Details |
|---|---|---|
| **On site** | **Very low** | **Running sand conditions are unlikely. No identified constraints on land use due to running conditions unless water table rises rapidly.** |

| Location | Hazard rating | Details |
|---|---|---|
| **On site** | **Low** | **Running sand conditions may be present. Constraints may apply to land uses involving excavation or the addition or removal of water.** |

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

# Natural ground subsidence - Compressible deposits




© Crown copyright and database rights 2024. Ordnance Survey licence 100035207

Site Outline

Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

## 17.3 Compressible deposits

| Records within 50m | 2 |
|---|---|

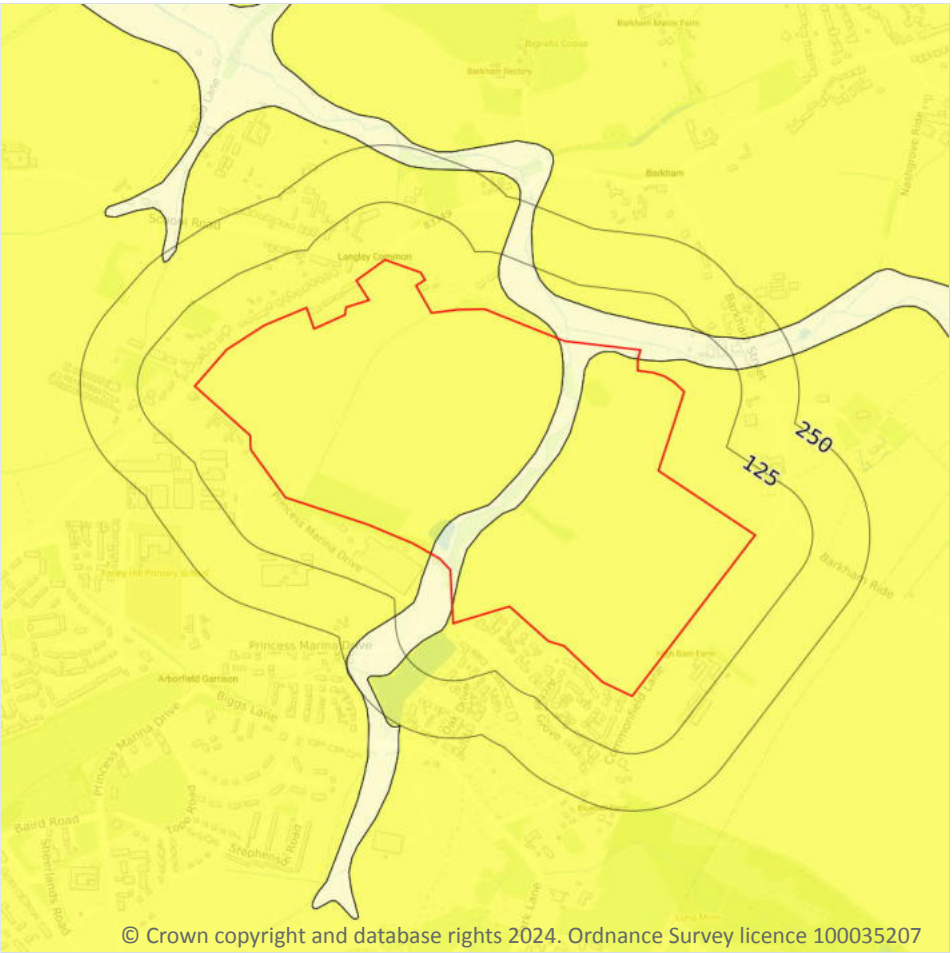
The potential hazard presented by types of ground that may contain layers of very soft materials like clay or peat and may compress if loaded by overlying structures, or if the groundwater level changes, potentially resulting in depression of the ground and disturbance of foundations.

Features are displayed on the Natural ground subsidence - Compressible deposits map on **page 114 >**

| Location | Hazard rating | Details |
|---|---|---|
| **On site** | **Negligible** | **Compressible strata are not thought to occur.** |
| **On site** | **Moderate** | **Compressibility and uneven settlement hazards are probably present. Land use should consider specifically the compressibility and variability of the site.** |

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

# Natural ground subsidence - Collapsible deposits




© Crown copyright and database rights 2024. Ordnance Survey licence 100035207

Site Outline

Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

## 17.4 Collapsible deposits

| Records within 50m | 2 |
|---|---|

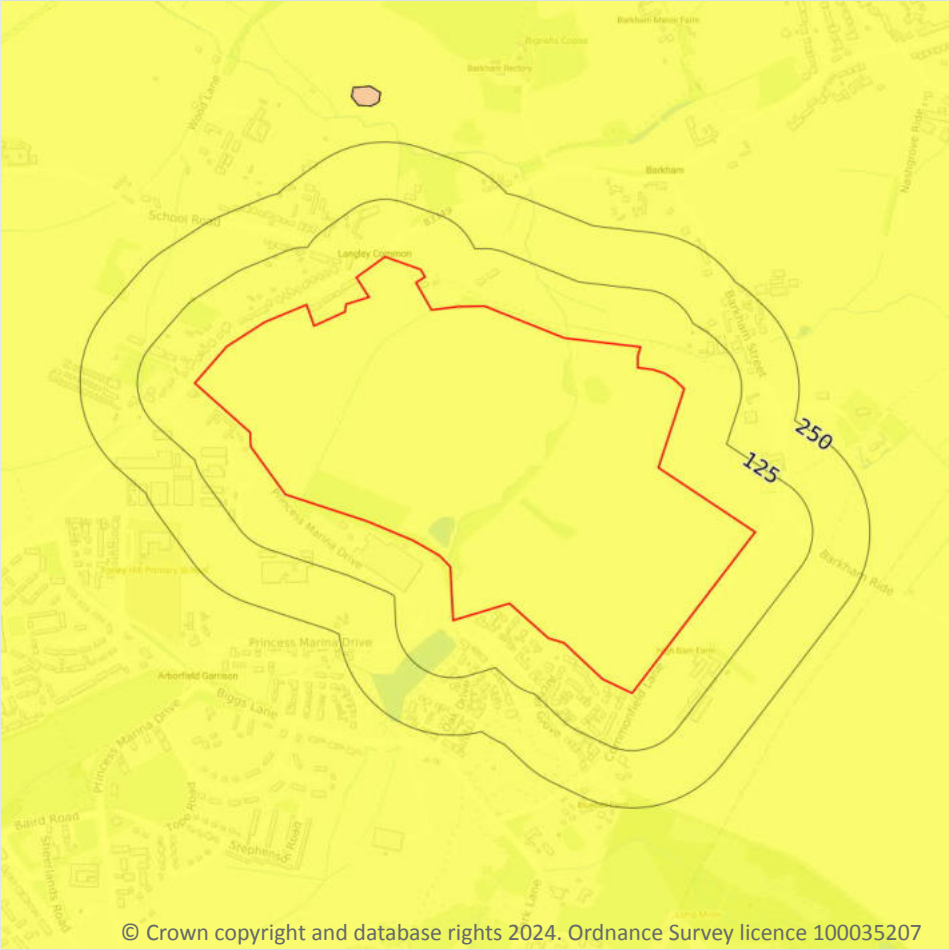
The potential hazard presented by natural deposits that could collapse when a load (such as a building) is placed on them or they become saturated with water.

Features are displayed on the Natural ground subsidence - Collapsible deposits map on **page 116 >**

| Location | Hazard rating | Details |
|---|---|---|
| **On site** | **Negligible** | **Deposits with potential to collapse when loaded and saturated are believed not to be present.** |
| **On site** | **Very low** | **Deposits with potential to collapse when loaded and saturated are unlikely to be present.** |

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

# Natural ground subsidence - Landslides




Site Outline

Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

## 17.5 Landslides

| Records within 50m | 1 |
|---|---|

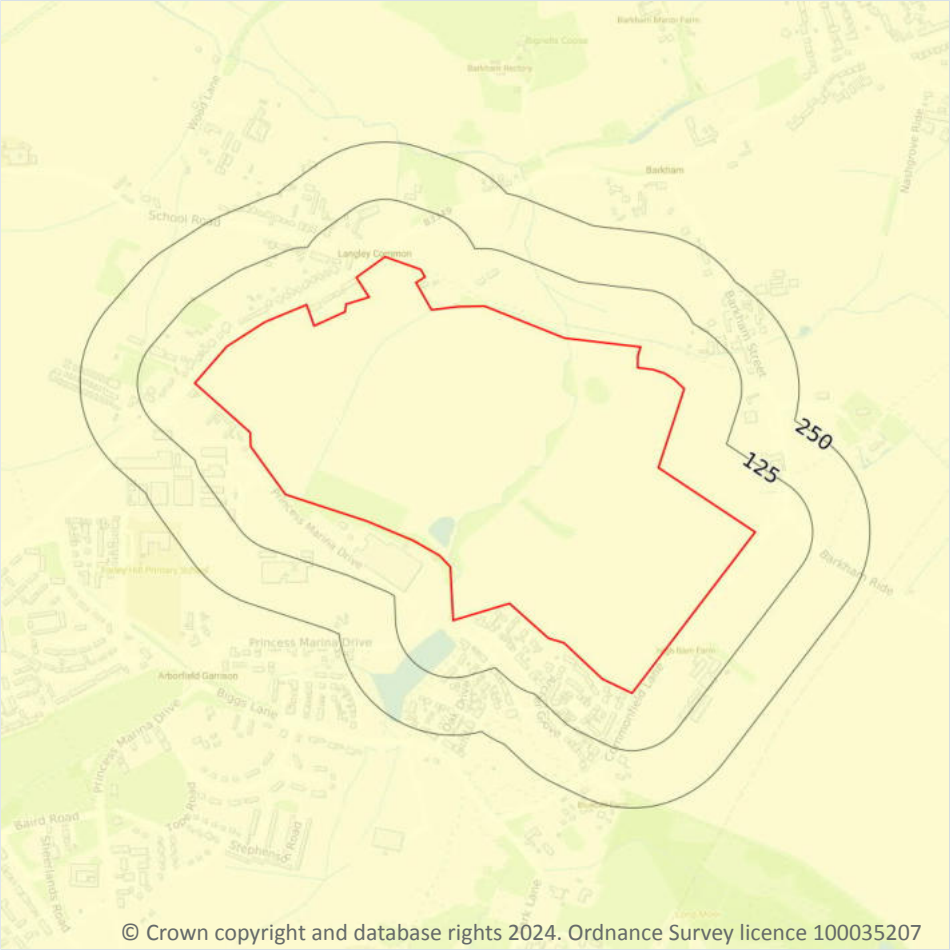
The potential for landsliding (slope instability) to be a hazard assessed using 1:50,000 scale digital maps of superficial and bedrock deposits, combined with information from the BGS National Landslide Database and scientific and engineering reports.

Features are displayed on the Natural ground subsidence - Landslides map on **page 117 >**

| Location | Hazard rating | Details |
|---|---|---|
| **On site** | **Very low** | **Slope instability problems are not likely to occur but consideration to potential problems of adjacent areas impacting on the site should always be considered.** |

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

# Natural ground subsidence - Ground dissolution of soluble rocks




© Crown copyright and database rights 2024. Ordnance Survey licence 100035207

Site Outline

Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

## 17.6 Ground dissolution of soluble rocks

| Records within 50m | 1 |
|---|---|

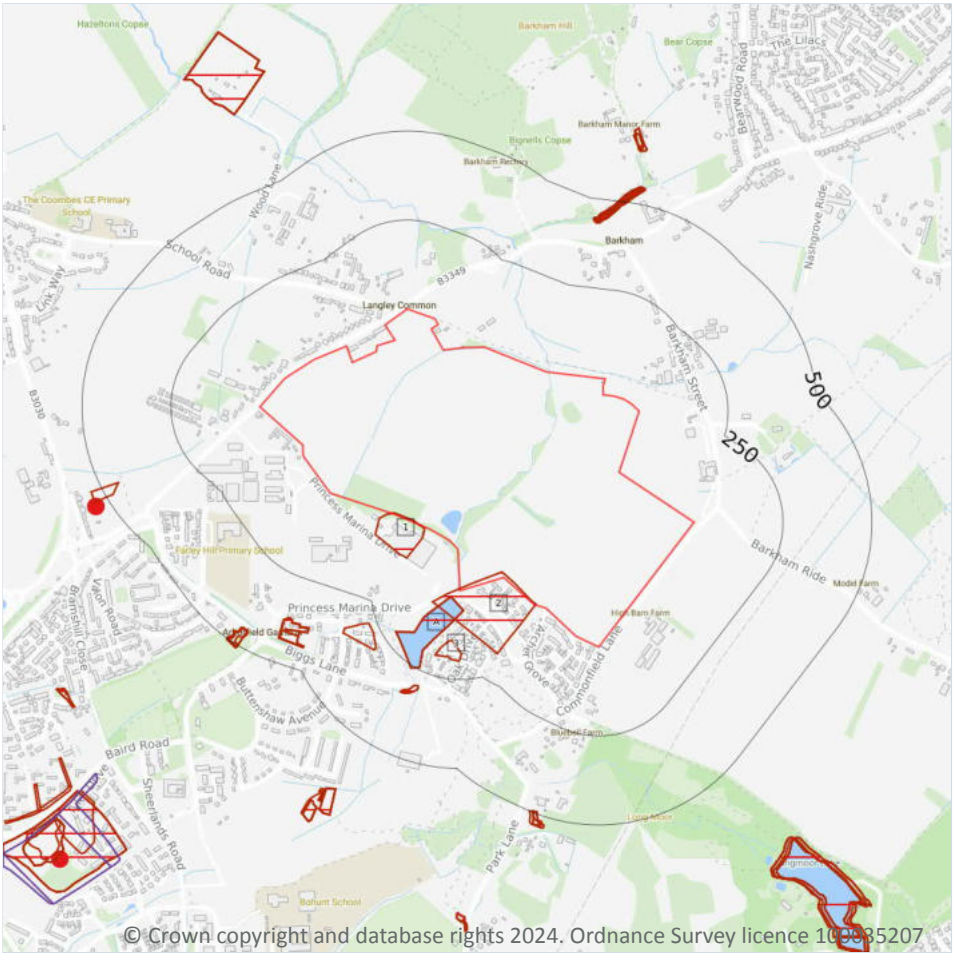
The potential hazard presented by ground dissolution, which occurs when water passing through soluble rocks produces underground cavities and cave systems. These cavities reduce support to the ground above and can cause localised collapse of the overlying rocks and deposits.

Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on **page 118 >**

| Location | Hazard rating | Details |
|---|---|---|
| **On site** | **Negligible** | **Soluble rocks are either not thought to be present within the ground, or not prone to dissolution. Dissolution features are unlikely to be present.** |

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

# 18 Mining and ground workings




Site Outline

Search buffers in metres (m)

- BritPits
- Surface ground workings
- Underground workings
- Underground mining extents
- Historical mineral planning areas
- TCA non-coal mining

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 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.*

## 18.2 Surface ground workings

| Records within 250m | 5 |
|---|---|

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 and ground workings map on **page 120 >**

| ID | Location | Land Use | Year of mapping | Mapping scale |
|---|---|---|---|---|
| **1** | **On site** | **Unspecified Heap** | **1988** | **1:10000** |
| **2** | **On site** | **Disused Sewage Works** | **1969** | **1:10000** |
| A | 31m S | Pond | 1988 | 1:10000 |
| A | 31m S | Pond | 1978 | 1:10000 |
| 3 | 141m S | Unspecified Heap | 1988 | 1:10000 |

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

## 18.3 Underground workings

| Records within 1000m | 0 |
|---|---|

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

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

## 18.4 Underground mining extents

| Records within 500m | 0 |
|---|---|

This data identifies underground mine workings that could present a potential risk, including adits and seam workings. These features have been identified from BGS Geological mapping and mine plans sourced from the BGS and various collections and sources.

*This data is sourced from 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 | 0 |
|---|---|

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).

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

## 18.7 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.*

## 18.8 The Coal Authority non-coal mining

| Records within 500m | 0 |
|---|---|

This data provides an indication of the potential zone of influence of recorded underground non-coal mining workings. Any and all analysis and interpretation of Coal Authority Data in this report is made by Groundsure, and is in no way supported, endorsed or authorised by the Coal Authority. The use of the data is restricted to the terms and provisions contained in this report. Data reproduced in this report may be the copyright of the Coal Authority and permission should be sought from Groundsure prior to any re-use.

*This data is sourced from The Coal Authority.*

## 18.9 Researched mining

| Records within 500m | 1 |
|---|---|

This data indicates areas of potential mining identified from alternative or archival sources, including; BGS Geological paper maps, Lidar data, aerial photographs (from World War II onwards), archaeological data services, websites, Tithe maps, and various text/plans from collected books and reports. Some of this data is approximate and Groundsure have interpreted the resultant risk area and, where possible, specific areas of risk have been captured.

| Location | Mineral type |
|---|---|
| 33m S | Stone |

*This data is sourced from Groundsure.*

## 18.10 Mining record office plans

| Records within 500m | 0 |
|---|---|

This dataset is representative of Mining Record Office and/or plan extents held by Groundsure and should be considered approximate. Where possible, plans have been located and any specific areas of risk they depict have been captured.

*This data is sourced from Groundsure.*

## 18.11 BGS mine plans

| Records within 500m | 0 |
|---|---|

This dataset is representative of BGS mine plans held by Groundsure and should be considered approximate. Where possible, plans have been located and any specific areas of risk they depict have been captured.

*This data is sourced from Groundsure.*

## 18.12 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.*

## 18.13 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.*

## 18.14 Gypsum areas

| Records on site | 0 |
|---|---|

Generalised areas that may be affected by gypsum extraction.

*This data is sourced from British Gypsum.*

## 18.15 Tin mining

| Records on site | 0 |
|---|---|

Generalised areas that may be affected by historical tin mining.

*This data is sourced from Groundsure.*

## 18.16 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 Ground cavities and sinkholes

## 19.1 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.*

## 19.2 Mining cavities

| Records within 1000m | 0 |
|---|---|

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.

*This data is sourced from Stantec UK Ltd.*

## 19.3 Reported recent incidents

| Records within 500m | 0 |
|---|---|

This data identifies sinkhole information gathered from media reports and Groundsure's own records. This data goes back to 2014 and includes relative accuracy ratings for each event and links to the original data sources. The data is updated on a regular basis and should not be considered a comprehensive catalogue of all sinkhole events. The absence of data in this database does not mean a sinkhole definitely has not occurred during this time.

*This data is sourced from Groundsure.*

## 19.4 Historical incidents

| Records within 500m | 0 |
|---|---|

This dataset comprises an extract of 1:10,560, 1:10,000, 1:2,500 and 1:1,250 scale historical Ordnance Survey maps held by Groundsure, dating back to the 1840s. It shows shakeholes, deneholes and other 'holes' as noted on these maps. Dene holes are medieval chalk extraction pits, usually comprising a narrow shaft with a number of chambers at the base of the shaft. Shakeholes are an alternative name for suffusion sinkholes, most commonly found in the limestone landscapes of North Yorkshire but also extensively noted around the Brecon Beacons National Park.

Not all 'holes' noted on Ordnance Survey mapping will necessarily be present within this dataset.

*This data is sourced from Groundsure.*

## 19.5 National karst database

| Records within 500m | 0 |
|---|---|

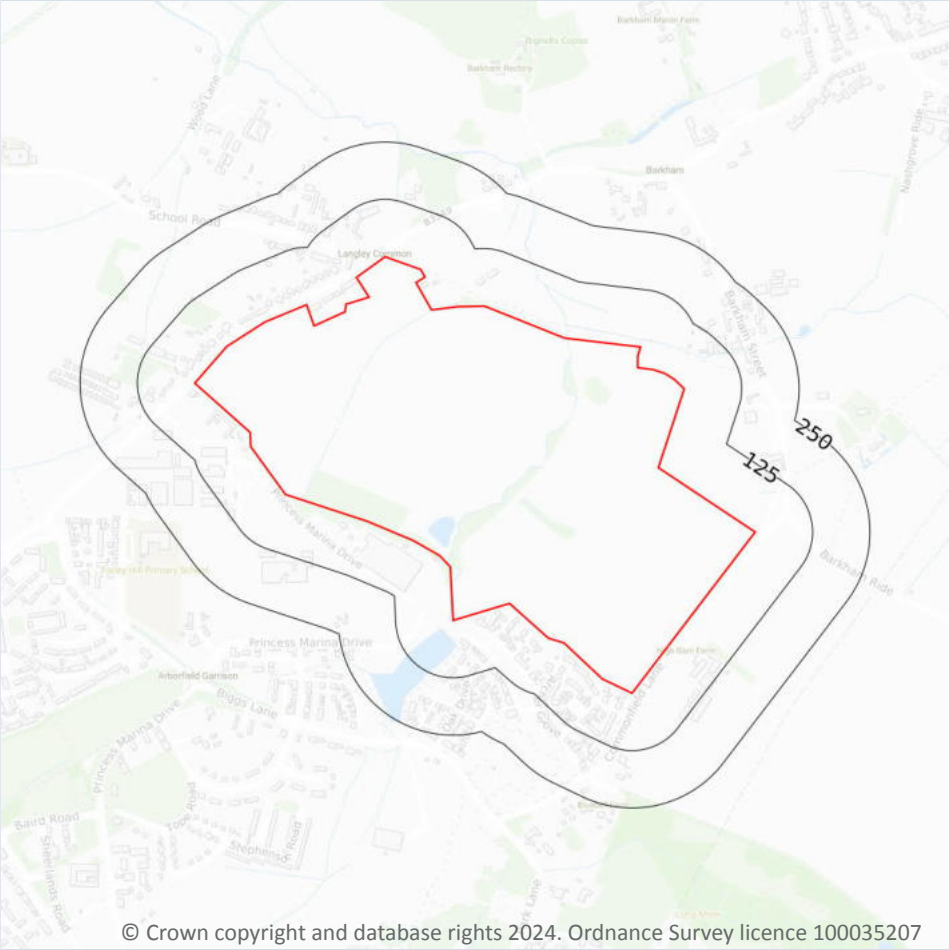
This is a comprehensive database of national karst information gathered from a wide range of sources. BGS have collected data on five main types of karst feature: Sinkholes, stream links, caves, springs, and incidences of associated damage to buildings, roads, bridges and other engineered works.

Since the database was set up in 2002 data covering most of the evaporite karst areas of the UK have now been added, along with data covering about 60% of the Chalk, and 35% of the Carboniferous Limestone outcrops. Many of the classic upland karst areas have yet to be included. Recorded so far are: Over 800 caves, 1300 stream sinks, 5600 springs, 10,000 sinkholes.

The database is not yet complete, and not all records have been verified. The absence of data does not mean that karst features are not present at a site. A reliability rating is included with each record.

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

# 20 Radon




© Crown copyright and database rights 2024. Ordnance Survey licence 100035207

Site Outline

Search buffers in metres (m)

- Greater than 30%
- Between 10% and 30%
- Between 5% and 10%
- Between 3% and 5%
- Between 1% and 3%
- Less than 1%

## 20.1 Radon

| Records on site | 1 |
|---|---|

The Radon Potential data classifies areas based on their likelihood of a property having a radon level at or above the Action Level in Great Britain. The dataset is intended for use at 1:50,000 scale and was derived from both geological assessments and indoor radon measurements (more than 560,000 records). A minimum 50m buffer should be considered when searching the maps, as the smallest detectable feature at this scale is 50m. The findings of this section should supersede any estimations derived from the Indicative Atlas of Radon in Great Britain (1:100,000 scale).

Features are displayed on the Radon map on **page 127 >**

| Location | Estimated properties affected | Radon Protection Measures required |
|---|---|---|
| **On site** | **Less than 1%** | **None** |

*This data is sourced from the British Geological Survey and UK Health Security Agency.*

# 21 Soil chemistry

## 21.1 BGS Estimated Background Soil Chemistry

| Records within 50m | 29 |
|---|---|

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 $km^2$. 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 $km^2$; 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** | **15 - 25 mg/kg** | **No data** | **100 mg/kg** | **60 mg/kg** | **1.8 mg/kg** | **60 - 90 mg/kg** | **15 - 30 mg/kg** |
| **On site** | **15 - 25 mg/kg** | **No data** | **100 mg/kg** | **60 mg/kg** | **1.8 mg/kg** | **60 - 90 mg/kg** | **15 - 30 mg/kg** |
| **On site** | **15 - 25 mg/kg** | **No data** | **100 mg/kg** | **60 mg/kg** | **1.8 mg/kg** | **60 - 90 mg/kg** | **15 - 30 mg/kg** |
| **On site** | **15 - 25 mg/kg** | **No data** | **100 mg/kg** | **60 mg/kg** | **1.8 mg/kg** | **60 - 90 mg/kg** | **15 - 30 mg/kg** |
| **On site** | **15 - 25 mg/kg** | **No data** | **100 mg/kg** | **60 mg/kg** | **1.8 mg/kg** | **60 - 90 mg/kg** | **15 - 30 mg/kg** |
| **On site** | **15 - 25 mg/kg** | **No data** | **100 mg/kg** | **60 mg/kg** | **1.8 mg/kg** | **60 - 90 mg/kg** | **15 - 30 mg/kg** |
| **On site** | **15 - 25 mg/kg** | **No data** | **100 mg/kg** | **60 mg/kg** | **1.8 mg/kg** | **60 - 90 mg/kg** | **15 - 30 mg/kg** |
| **On site** | **15 - 25 mg/kg** | **No data** | **100 mg/kg** | **60 mg/kg** | **1.8 mg/kg** | **60 - 90 mg/kg** | **15 - 30 mg/kg** |
| **On site** | **15 - 25 mg/kg** | **No data** | **100 mg/kg** | **60 mg/kg** | **1.8 mg/kg** | **60 - 90 mg/kg** | **15 - 30 mg/kg** |
| **On site** | **15 - 25 mg/kg** | **No data** | **100 mg/kg** | **60 mg/kg** | **1.8 mg/kg** | **60 - 90 mg/kg** | **15 - 30 mg/kg** |
| **On site** | **15 - 25 mg/kg** | **No data** | **100 mg/kg** | **60 mg/kg** | **1.8 mg/kg** | **60 - 90 mg/kg** | **15 - 30 mg/kg** |

| Location | Arsenic | Bioaccessible Arsenic | Lead | Bioaccessible Lead | Cadmium | Chromium | Nickel |
|---|---|---|---|---|---|---|---|
| **On site** | **15 - 25 mg/kg** | **No data** | **100 mg/kg** | **60 mg/kg** | **1.8 mg/kg** | **60 - 90 mg/kg** | **15 - 30 mg/kg** |
| **On site** | **15 - 25 mg/kg** | **No data** | **100 mg/kg** | **60 mg/kg** | **1.8 mg/kg** | **60 - 90 mg/kg** | **15 - 30 mg/kg** |
| **On site** | **15 - 25 mg/kg** | **No data** | **100 mg/kg** | **60 mg/kg** | **1.8 mg/kg** | **60 - 90 mg/kg** | **15 - 30 mg/kg** |
| **On site** | **15 - 25 mg/kg** | **No data** | **100 mg/kg** | **60 mg/kg** | **1.8 mg/kg** | **60 - 90 mg/kg** | **15 - 30 mg/kg** |
| **On site** | **15 - 25 mg/kg** | **No data** | **100 mg/kg** | **60 mg/kg** | **1.8 mg/kg** | **60 - 90 mg/kg** | **15 - 30 mg/kg** |
| **On site** | **15 - 25 mg/kg** | **No data** | **100 mg/kg** | **60 mg/kg** | **1.8 mg/kg** | **60 - 90 mg/kg** | **15 - 30 mg/kg** |
| **On site** | **15 - 25 mg/kg** | **No data** | **100 mg/kg** | **60 mg/kg** | **1.8 mg/kg** | **60 - 90 mg/kg** | **15 - 30 mg/kg** |
| **On site** | **15 - 25 mg/kg** | **No data** | **100 mg/kg** | **60 mg/kg** | **1.8 mg/kg** | **60 - 90 mg/kg** | **15 - 30 mg/kg** |
| **On site** | **15 - 25 mg/kg** | **No data** | **100 mg/kg** | **60 mg/kg** | **1.8 mg/kg** | **60 - 90 mg/kg** | **15 - 30 mg/kg** |
| **On site** | **15 - 25 mg/kg** | **No data** | **100 mg/kg** | **60 mg/kg** | **1.8 mg/kg** | **60 - 90 mg/kg** | **15 - 30 mg/kg** |
| 3m S | 15 mg/kg | No data | 100 mg/kg | 60 mg/kg | 1.8 mg/kg | 60 - 90 mg/kg | 15 - 30 mg/kg |
| 7m NE | 15 - 25 mg/kg | No data | 100 mg/kg | 60 mg/kg | 1.8 mg/kg | 60 - 90 mg/kg | 15 - 30 mg/kg |
| 7m NE | 15 - 25 mg/kg | No data | 100 mg/kg | 60 mg/kg | 1.8 mg/kg | 60 - 90 mg/kg | 15 - 30 mg/kg |
| 8m S | 15 mg/kg | No data | 100 mg/kg | 60 mg/kg | 1.8 mg/kg | 60 - 90 mg/kg | 15 - 30 mg/kg |
| 9m S | 15 - 25 mg/kg | No data | 100 mg/kg | 60 mg/kg | 1.8 mg/kg | 60 - 90 mg/kg | 15 - 30 mg/kg |
| 46m NE | 15 - 25 mg/kg | No data | 100 mg/kg | 60 mg/kg | 1.8 mg/kg | 60 - 90 mg/kg | 15 - 30 mg/kg |
| 46m NE | 15 - 25 mg/kg | No data | 100 mg/kg | 60 mg/kg | 1.8 mg/kg | 60 - 90 mg/kg | 15 - 30 mg/kg |

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

## 21.2 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 $km^2$).

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

## 21.3 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 $km^2$.

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

# 22 Railway infrastructure and projects

## 22.1 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.*

## 22.2 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.*

## 22.3 Railway tunnels

| Records within 250m | 0 |
|---|---|

Railway tunnels taken from contemporary Ordnance Survey mapping.

*This data is sourced from the Ordnance Survey.*

## 22.4 Historical railway and tunnel features

| Records within 250m | 0 |
|---|---|

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.

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

## 22.5 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.*

## 22.6 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.*

## 22.7 Railways

| Records within 250m | 0 |
|---|---|

Currently existing railway lines, including standard railways, narrow gauge, funicular, trams and light railways.

*This data is sourced from Ordnance Survey and OpenStreetMap.*

## 22.8 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.*

## 22.9 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.*

## 22.10 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.*

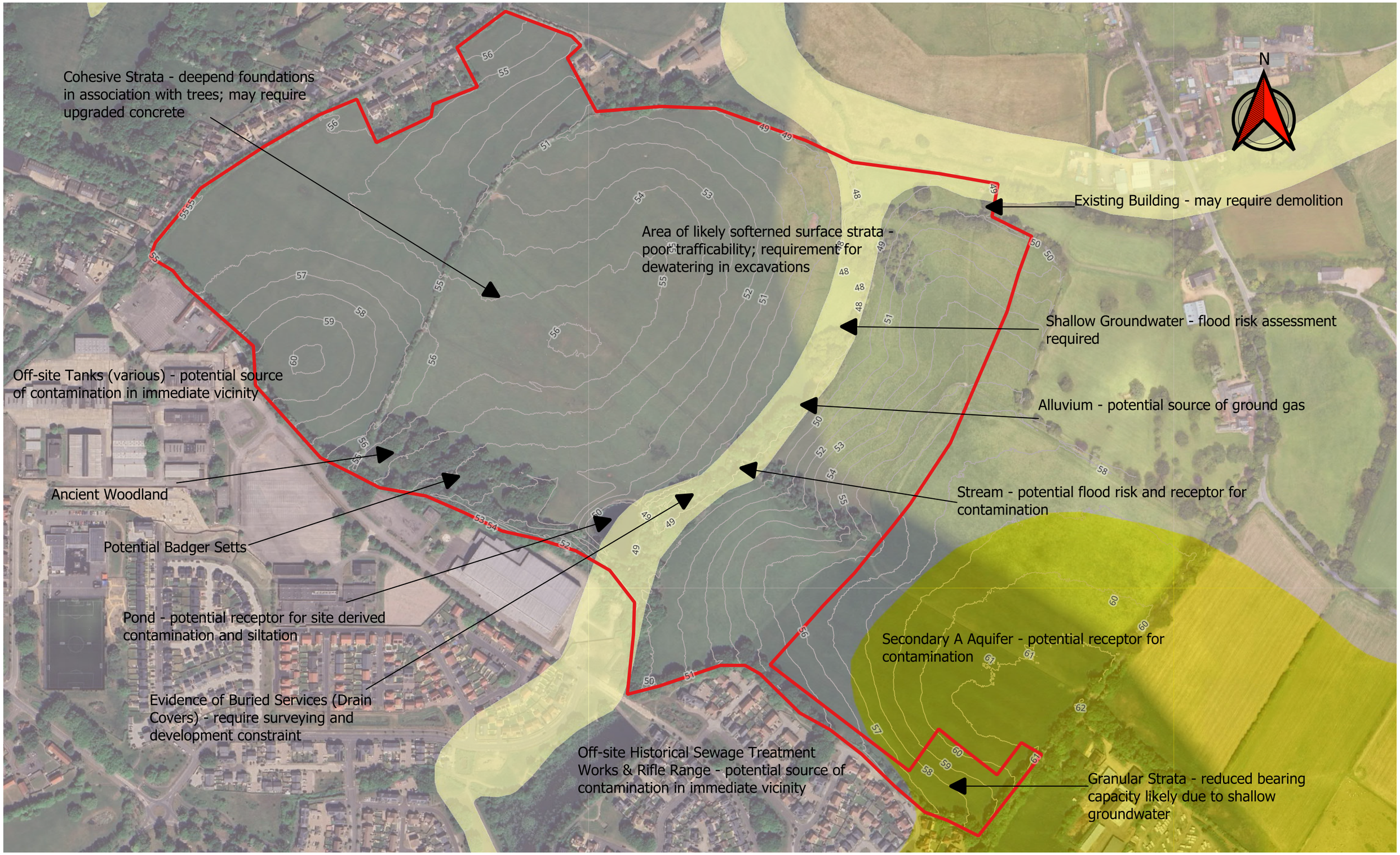
## Data providers

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: www.groundsure.com/terms-and-conditions-april-2023/ ↗.

# APPENDIX H




| | | | | |
|---|---|---|---|---|
| NOTES: | CLIENT: CREST NICHOLSON PARTNERSHIPS STRATEGIC LAND | PROJECT No: P10532 | DATE: Aug 2025 | DESIGN/DRAWN: RHC |
| | PROJECT: BARKHAM SQUARE, ARBORFIELD, WOKINGHAM | DRAWING NUMBER: Figure 04 | ISSUE: FINAL | |
| | TITLE: PHASE I SITE HAZARD PLAN | © GRM Development Solutions Ltd © Crown Copyright. AL 100014100 | | |

GRM Development Solutions Ltd
Tel: 01283 551 249
mail@grm-uk.comwww.grm-uk.com