

Figure Title
Sand and Gravel: Resource Area 1

District: West Oxfordshire DC

Total Area: 9,697 Ha

	Ha	%
Area in Flood Zone 1	8997	92.8
Area in Flood Zone 2	82	0.8
Area in Flood Zone 3a with Climate Change	0	0.0
Area in Flood Zone 3a	16	0.2
Area in Flood Zone 3b	602	6.2

MAIN RIVER
The River Evenlode flows west to east through the centre of the Resource Area. The Cornwell Brook flows south to join the Evenlode at Kingham.

FLOOD RECORDS
There are records of flooding along the Evenlode floodplain. Properties have been affected by fluvial flooding in Shipton-Under-Wynchwood, Ascot-Under-Wychwood and Charlbury.

There are no recorded incidents of sewer or groundwater flooding in this area.

N.B: the surface water modelling for the 1 in 100 year storm has only been undertaken for SODC and WHDC as part of their combined SFRA.

Location Overview

Legend

- County/District Boundary
- Parish Boundary
- Minerals Resource Area
- Canal
- Flood Zone 2
- Flood Zone 3a
- Flood Zone 3a + CC
- Flood Zone 3b
- EA Historic Flood Outline
- Flood Defences
- Flood Storage Areas
- July 2007 Flood Records
- Groundwater Flooding
- EA Main Rivers

Sewer Flooding Incidents

0 to 0
1 to 2
3 to 4
5 to 8
9 to 11

Surface Water Flooding

1 in 100 year: Max depth [m]

0.0 - 0.1	0.5 - 0.6
0.1 - 0.2	0.6 - 0.7
0.2 - 0.3	0.7 - 0.8
0.3 - 0.4	0.8 - 5.0
0.4 - 0.5	

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Drawing Number
D126605 / Sand Gravel 1

Drawn SL	Approved EB	Date 09/10	Scale @ A3 1:100,000
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NORTH

Sand and Gravel: Resource Area 2

District: West Oxfordshire DC & Cherwell DC

Total Area: 31,750 Ha

	Ha	%
Area in Flood Zone 1	29,459	92.7
Area in Flood Zone 2	114	0.4
Area in Flood Zone 3a with Climate Change	440	1.4
Area in Flood Zone 3a	19	0.1
Area in Flood Zone 3b	1,718	5.4

MAIN RIVER

The River Cherwell flows north to south along the eastern edge of the Resource Area, adjacent to the Oxford Canal.

The Hook Norton Brook, Sor Brook, Bloxham Brook and Deddington Brook flow east across the Resource Area to join the River Cherwell.

FLOOD RECORDS

Thames Water has records of properties affected by sewer flooding in the southern half of the Resource Area.

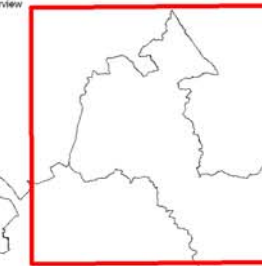
The historical flood outline shows that there are records of flooding along these main rivers.

Properties within Banbury have been affected by flooding from fluvial sources and overwhelmed drainage systems.

Properties have been affected by fluvial flooding at Lower Tadmarton, Bloxham and Adderbury, from the Sor Brook and Bloxham Brook respectively.

N.B: the surface water modelling for the 1 in 100 year storm has only been undertaken for SODC and VW HDC as part of their combined SFRA.

Location Overview



Legend

- County/District Boundary
- Parish Boundary
- Minerals Resource Area
- Canal
- Flood Zone 2
- Flood Zone 3a
- Flood Zone 3a + CC
- Flood Zone 3b
- EA Historic Flood Outline
- Flood Defences
- Flood Storage Areas
- July 2007 Flood Records
- Groundwater Flooding
- EA Main Rivers
- Canal Overtopping Incidents (BW, July 2007)

Sewer Flooding Incidents

- 0 to 1
- 1 to 2
- 3 to 4
- 5 to 8
- 9 to 11

Surface Water Flooding

- 1 in 100 year: Max depth [m]
- 0.0 - 0.1
 - 0.1 - 0.2
 - 0.2 - 0.3
 - 0.3 - 0.4
 - 0.4 - 0.5
 - 0.5 - 0.6
 - 0.6 - 0.7
 - 0.7 - 0.8
 - 0.8 - 0.9



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Drawing Number
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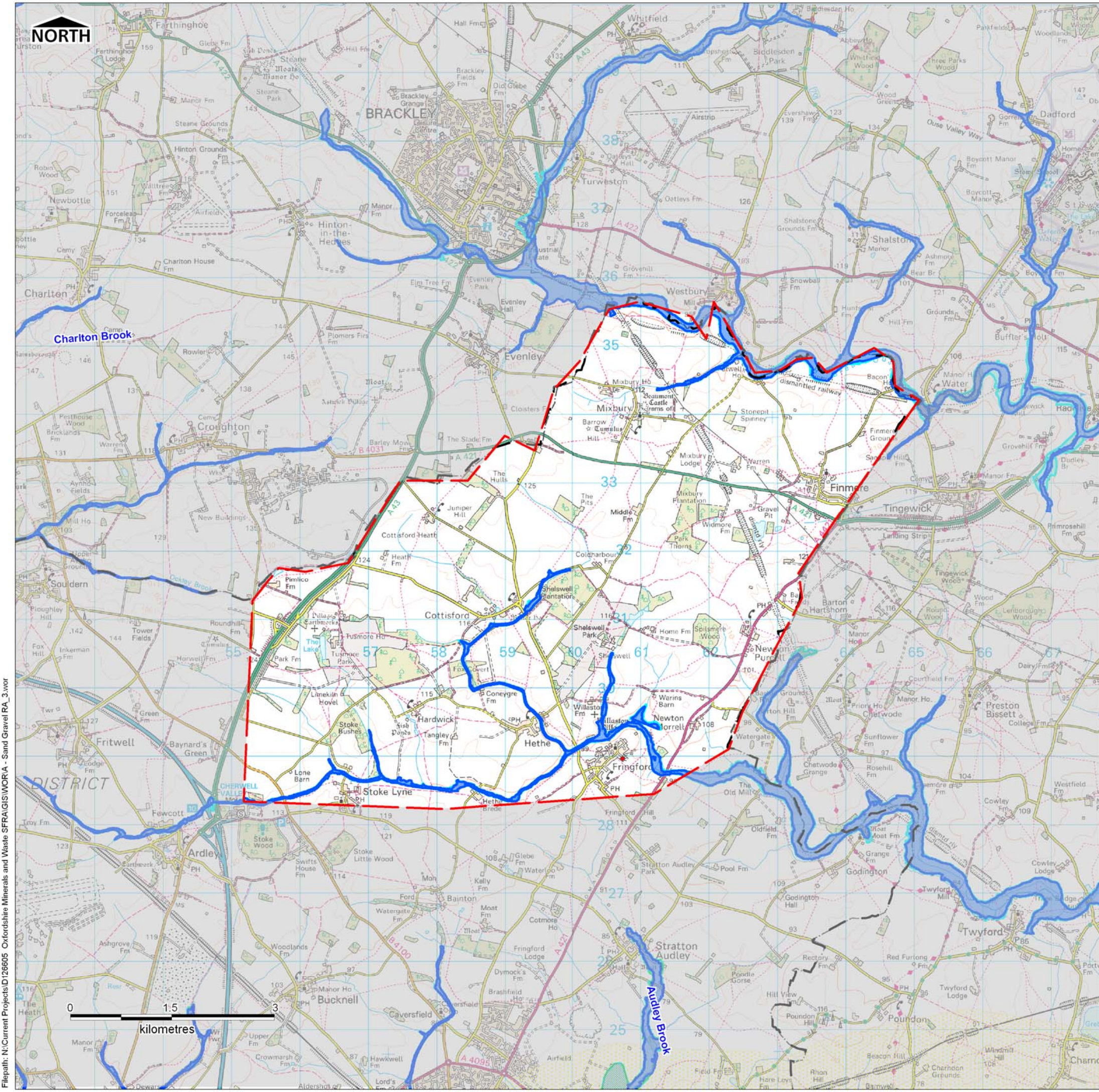


Figure Title
Sand and Gravel: Resource Area 3

District: Cherwell DC

Total Area: 4,438 Ha

	Ha	%
Area in Flood Zone 1	4,333	97.6
Area in Flood Zone 2	14	0.3
Area in Flood Zone 3a with Climate Change	0	0
Area in Flood Zone 3a	91	2.1
Area in Flood Zone 3b	0	0

MAIN RIVER
There are no Environment Agency designated main rivers within this Resource Area.

FLOOD RECORDS
There are no recorded incidents of flooding within this Resource Area.

N.B: the surface water modelling for the 1 in 100 year storm has only been undertaken for SODC and VWDC as part of their combined SFRA.

Location Overview

Legend

- County/District Boundary
- Parish Boundary
- Minerals Resource Area
- Canal
- Flood Zone 2
- Flood Zone 3a
- Flood Zone 3a + CC
- Flood Zone 3b
- EA Historic Flood Outline
- Flood Defences
- Flood Storage Areas
- July 2007 Flood Records
- Groundwater Flooding
- EA Main Rivers

Sewer Flooding Incidents

0 to 0
1 to 2
3 to 4
5 to 8
9 to 11

Surface Water Flooding

1 in 100 year: Max depth [m]	
0.0 - 0.1	0.5 - 0.6
0.1 - 0.2	0.6 - 0.7
0.2 - 0.3	0.7 - 0.8
0.3 - 0.4	0.8 - 5.0
0.4 - 0.5	

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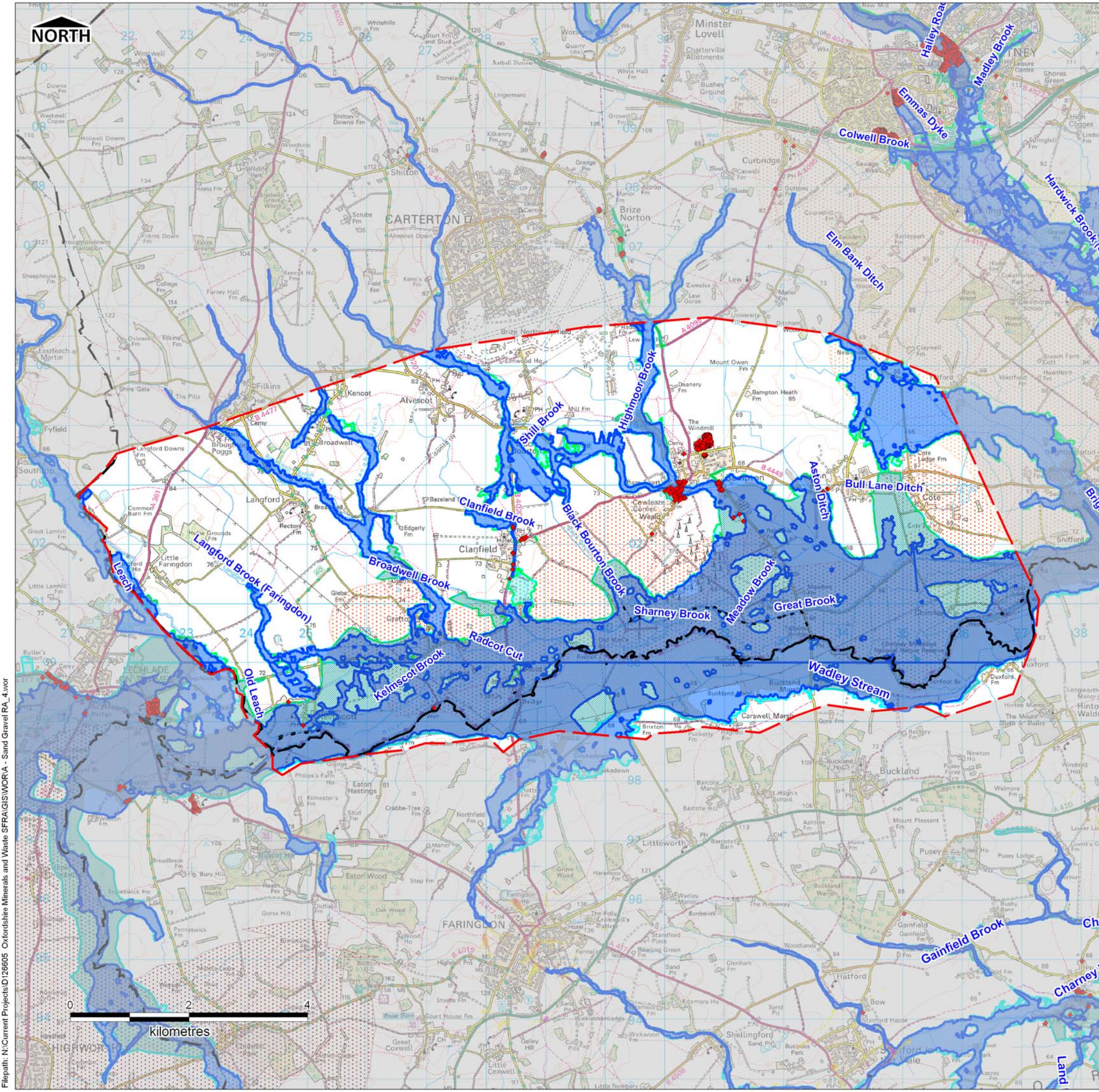
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Sand and Gravel: Resource Area 4

District: Vale of White Horse DC & West Oxfordshire DC

Total Area: 8,950 Ha

	Ha	%
Area in Flood Zone 1	5,078	56.7
Area in Flood Zone 2	615	6.9
Area in Flood Zone 3a with Climate Change	0	0.0
Area in Flood Zone 3a	15	0.2
Area in Flood Zone 3b	3,243	36.2

MAIN RIVER
 The Upper Thames flows west to east across the south of the Resource Area. Several tributaries flow north to south to join the Upper Thames along its length including the Langford Brook, Broadwell Brook, Kelmscot Brook, Radcot Cut, Clanfield Brook, Shill Brook, Black Bourton Brook, Highmoor Brook, Sharney Brook, Meadow Brook, Great Brook, Aston Ditch and the Bull Lane Ditch. The Wadley Stream flows west to east, on the south side of the Upper Thames.

FLOOD RECORDS
 Approximately a third of this Resource Area has been affected by flooding from the Upper Thames in the past.

There are records of properties affected by flooding in Bampton.
 Thames Water had records of flooding in Bampton, in the centre of this Resource Area.
 There are no reported incidents of groundwater flooding in this area.

N.B: the surface water modelling for the 1 in 100 year storm has only been undertaken for SODC and VVHDC as part of their combined SFRA. There are no area identified at risk of surface water flooding in the part of this Resource Area within SODC.

Location Overview

Legend

- County/District Boundary
- Parish Boundary
- Minerals Resource Area
- Canal
- Flood Zone 2
- Flood Zone 3a
- Flood Zone 3a + CC
- Flood Zone 3b
- EA Historic Flood Outline
- Flood Defences
- Flood Storage Areas
- July 2007 Flood Records
- Groundwater Flooding
- EA Main Rivers

Sewer Flooding Incidents

0 to 0
1 to 2
3 to 4
5 to 8
9 to 11

Surface Water Flooding

1 in 100 year: Max depth [m]

0.0 - 0.1	0.5 - 0.6
0.1 - 0.2	0.6 - 0.7
0.2 - 0.3	0.7 - 0.8
0.3 - 0.4	0.8 - 5.0
0.4 - 0.5	

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Sand and Gravel: Resource Area 5

District: West Oxfordshire DC

Total Area: 5,199 Ha

	Ha	%
Area in Flood Zone 1	2,515	48.4
Area in Flood Zone 2	396	7.6
Area in Flood Zone 3a with Climate Change	0	0.0
Area in Flood Zone 3a	220	4.2
Area in Flood Zone 3b	2,068	39.8

MAIN RIVER

The River Windrush and Hardwock Brook flow north to south through this Resource Area to join the Upper Thames which flows north to south around the southern edge of the Resource Area. Several smaller watercourses feed into the Windrush and Upper Thames including the Harcourt Brook, Westend Brook, Linchill Brook, Newbridge Cut and Bighthampton Cut.

FLOOD RECORDS

There are records of flooding associated with the Upper Thames, as shown by the historic outline. In addition, there are records of properties in Standlake that have been affected by fluvial flooding associated with the Newbridge Cut

Thames Water has records of sewer flooding within this Resource Area.

N.B: the surface water modelling for the 1 in 100 year storm has only been undertaken for SODC and VW HDC as part of their combined SFRA.

Location Overview



- Legend
- County/District Boundary
 - Parish Boundary
 - Minerals Resource Area
 - Canal
 - Flood Zone 2
 - Flood Zone 3a
 - Flood Zone 3a + CC
 - Flood Zone 3b
 - EA Historic Flood Outline
 - Flood Defences
 - Flood Storage Areas
 - July 2007 Flood Records
 - Groundwater Flooding
 - EA Main Rivers

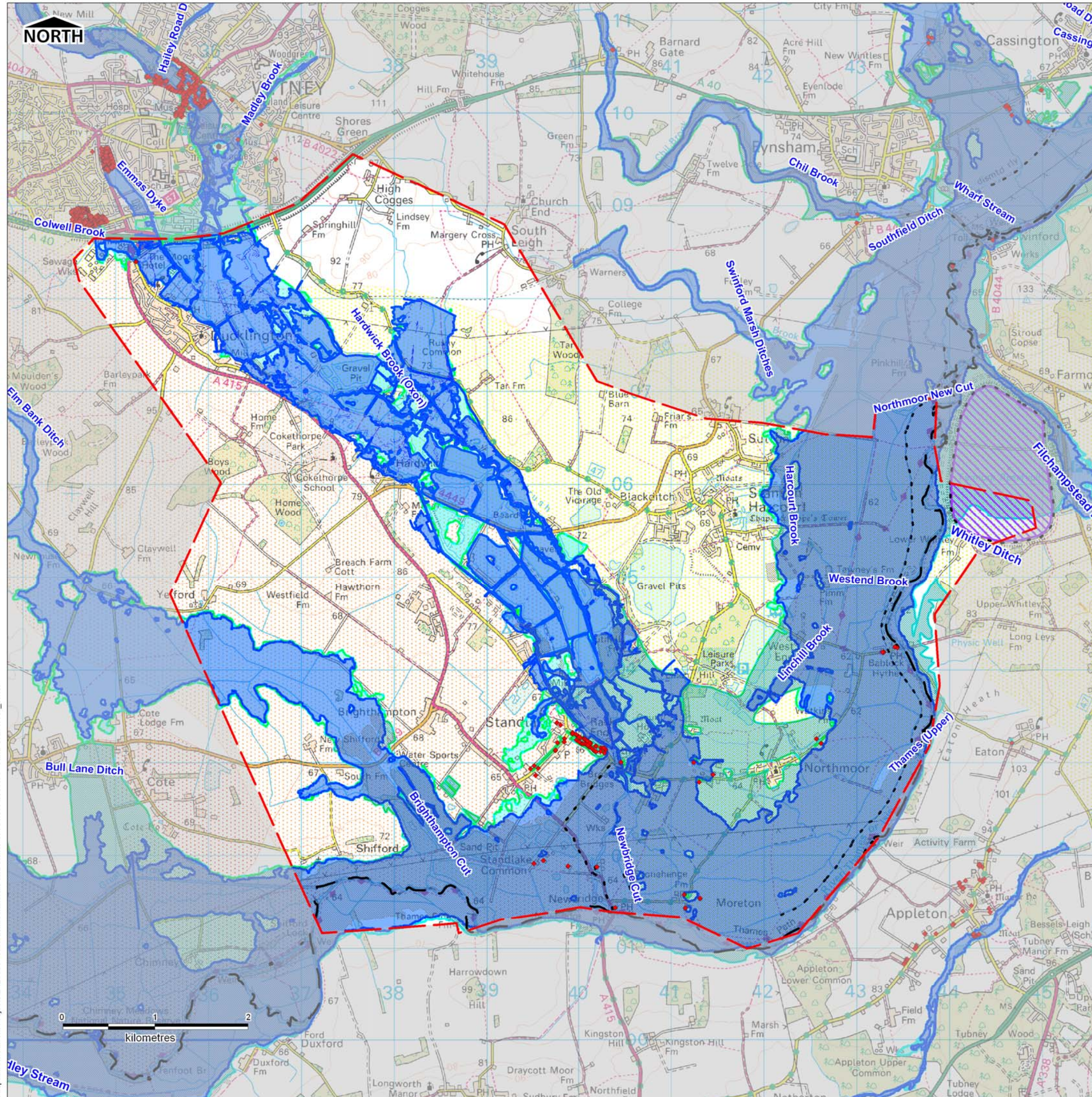
Sewer Flooding Incidents	Surface Water Flooding	
	1 in 100 year: Max depth [m]	
0 to 0	0.0 - 0.1	0.5 - 0.6
1 to 2	0.1 - 0.2	0.6 - 0.7
3 to 4	0.2 - 0.3	0.7 - 0.8
5 to 8	0.3 - 0.4	0.8 - 5.0
9 to 11	0.4 - 0.5	

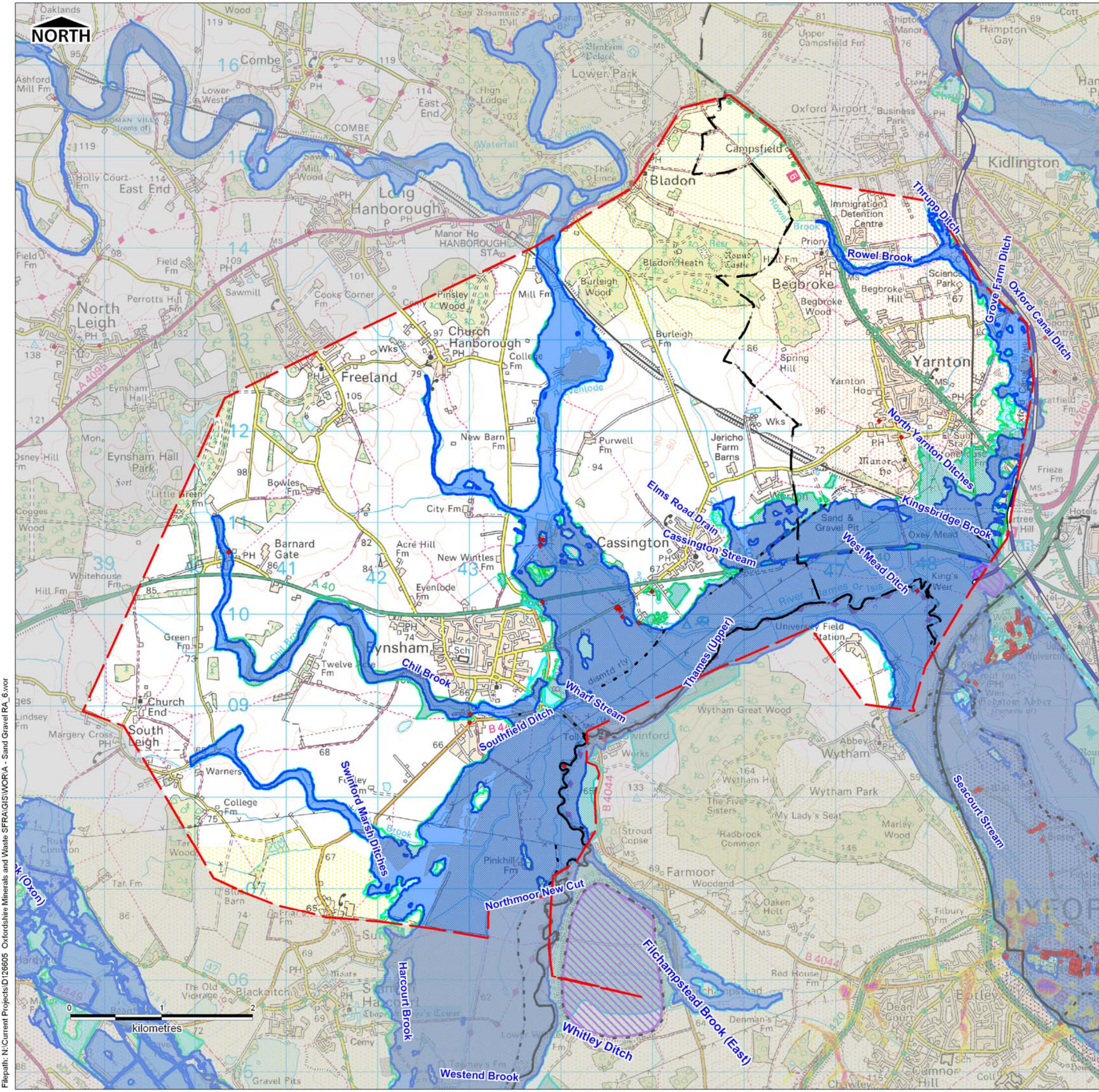
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Sand and Gravel: Resource Area 6

District: West Oxfordshire DC & Cherwell DC

Total Area: 5,474 Ha

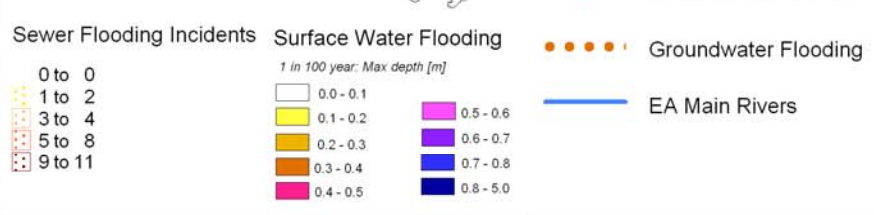
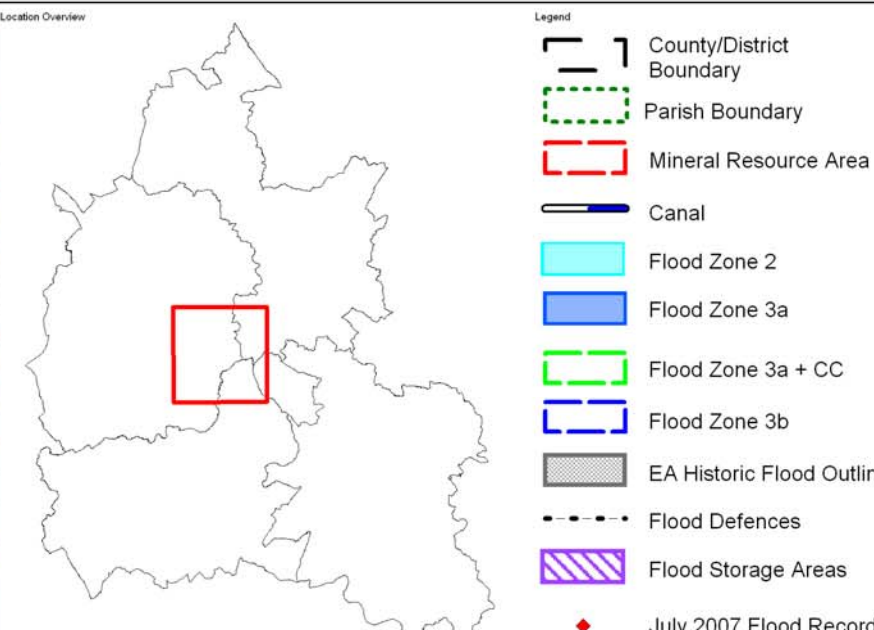
	Ha	%
Area in Flood Zone 1	3,948	72.2
Area in Flood Zone 2	163	3.0
Area in Flood Zone 3a with Climate Change	40	0.7
Area in Flood Zone 3a	34	0.6
Area in Flood Zone 3b	1,289	23.5

MAIN RIVER
 The Upper Thames River flows along the south edge of the Resource Area. Several tributaries flow south to join the Upper Thames including the Cassington Stream, Chill Brook, Swinford Marsh Ditches, Great Farm Ditch, North Yarnton Ditches, Kingsbridge Brook and the West Mead Ditch.

FLOOD RECORDS
 Approximately 25% of this Resource Area has been affected by flooding from the Upper Thames and its tributaries in the past.

There are records of 5-10 properties affected by fluvial flooding in Cassington.
 Thames Water has records of sewer flooding in the Yarnton area, in the east of this resource Area.
 There are no reported incidents of groundwater flooding in this area.

N.B: the surface water modelling for the 1 in 100 year storm has only been undertaken for SODC and VWDC as part of their combined SFRA.



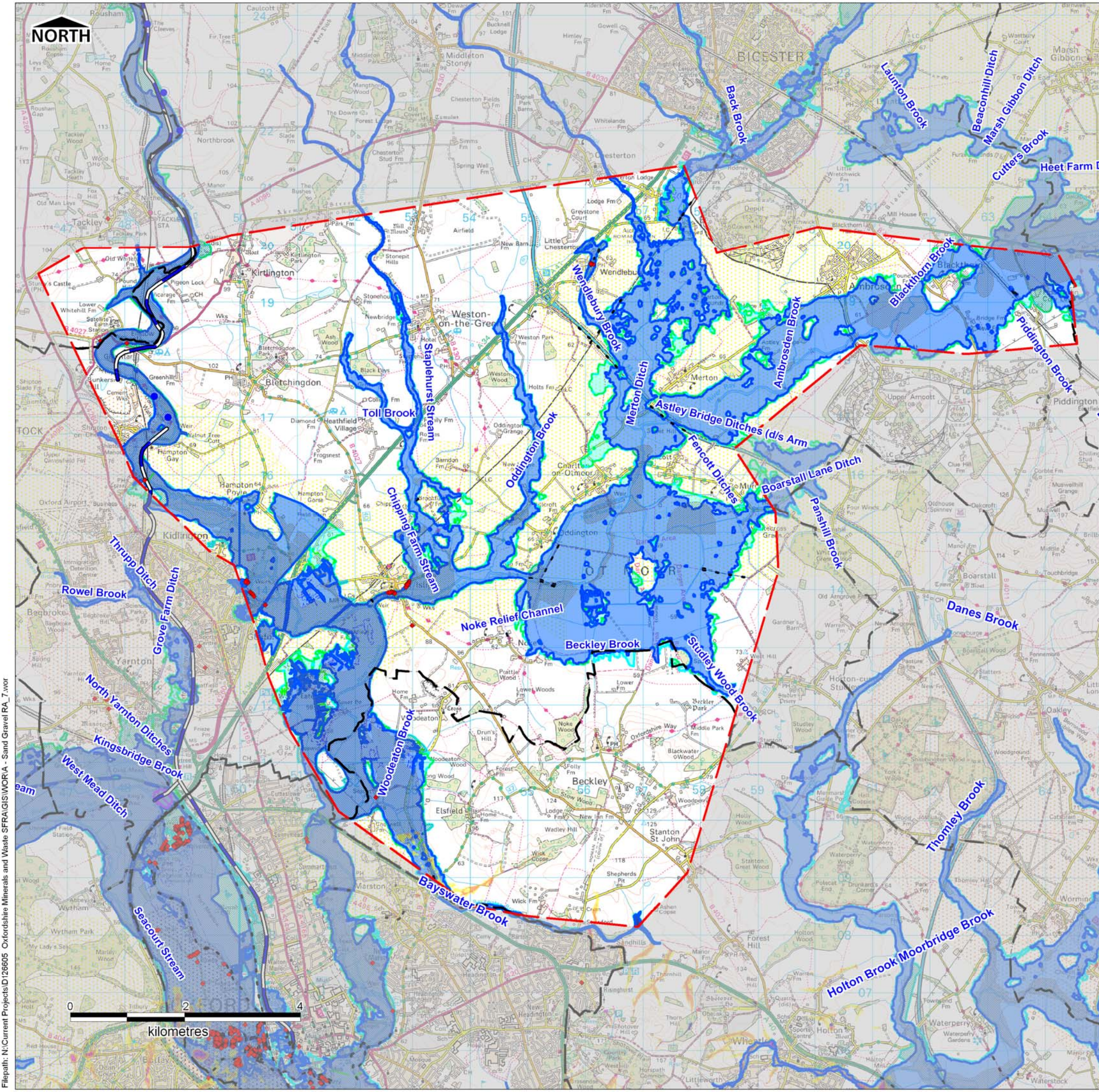
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Drawn	Approved	Date	Scale @ A3
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Sand and Gravel: Resource Area 7

District: Cherwell DC & South Oxfordshire DC

Total Area: 12,370 Ha

	Ha	%
Area in Flood Zone 1	3276	66.9
Area in Flood Zone 2	20	0.2
Area in Flood Zone 3a with Climate Change	487	3.9
Area in Flood Zone 3a	429	3.5
Area in Flood Zone 3b	3,158	25.5

MAIN RIVER
 The River Cherwell flows north to south in the west of the Resource Area. The Oxford Canal flows adjacent to the River Cherwell. The Ray (Oxon) flows east to west across the Resource Area and is joined by numerous smaller tributaries from the north and south.

FLOOD RECORDS
 A large proportion of the Cherwell floodplain has been affected by flooding before. Properties in Gosford and Islip have reported flooding from fluvial sources during the July 2007 floods.

Thames Water has records of flooding from sewers in this area during the last 10 years.

Modelling of the 1 in 100 year storm event, undertaken as part of the SODC & VW HDC SFRA, highlights land close to Marston in the south of the Resource Area to be at risk of surface water flooding.

N.B: the surface water modelling for the 1 in 100 year storm has only been undertaken for SODC and VW HDC as part of their combined SFRA and does not cover the north of this Resource Area.

Location Overview

Legend

- County/District Boundary
- Parish Boundary
- Mineral Resource Area
- Canal
- Flood Zone 2
- Flood Zone 3a
- Flood Zone 3a + CC
- Flood Zone 3b
- EA Historic Flood Outline
- Flood Defences
- Flood Storage Areas
- July 2007 Flood Records
- Groundwater Flooding
- EA Main Rivers
- Canal Overtopping Incidents (BW, July 2007)

Sewer Flooding Incidents

0 to 0
1 to 2
3 to 4
5 to 8
9 to 11

Surface Water Flooding

1 in 100 year: Max depth [m]

0.0 - 0.1	0.5 - 0.6
0.1 - 0.2	0.6 - 0.7
0.2 - 0.3	0.7 - 0.8
0.3 - 0.4	0.8 - 5.0
0.4 - 0.5	

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Vale of White Horse

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Sand and Gravel: Resource Area 8

District: Vale of White Horse DC

Total Area: 64.17 Ha

	Ha	%
Area in Flood Zone 1	64	99.7
Area in Flood Zone 2	0	0.0
Area in Flood Zone 3a with Climate Change	0	0.0
Area in Flood Zone 3a	0	0.0
Area in Flood Zone 3b	0	0.3

MAIN RIVER

A tributary of the River Ock is located to the east of the Resource Area.

FLOOD RECORDS

Modelling of the 1 in 100 year storm event, undertaken as part of the SODC & VWHDC SFRA, identifies parts of the Resource Area and Faringdon to the north, to be susceptible to surface water flooding.

There are no other reported incidents of flooding in this Resource Area.

Location Overview



Legend

- County/District Boundary
- Parish Boundary
- Mineral Resource Area
- Canal
- Flood Zone 2
- Flood Zone 3a
- Flood Zone 3a + CC
- Flood Zone 3b
- EA Historic Flood Outline
- Flood Defences
- Flood Storage Areas
- July 2007 Flood Records
- Groundwater Flooding
- EA Main Rivers

Sewer Flooding Incidents

- 0 to 0
- 1 to 2
- 3 to 4
- 5 to 8
- 9 to 11

Surface Water Flooding

- 1 in 100 year: Max depth [m]
- 0.0 - 0.1
 - 0.1 - 0.2
 - 0.2 - 0.3
 - 0.3 - 0.4
 - 0.4 - 0.5
 - 0.5 - 0.6
 - 0.6 - 0.7
 - 0.7 - 0.8
 - 0.8 - 5.0

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Sand and Gravel: Resource Area 9

District: South Oxfordshire DC & Vale of White Horse DC

Total Area: 2,506 Ha

	Ha	%
Area in Flood Zone 1	1,727	68.9
Area in Flood Zone 2	209	8.4
Area in Flood Zone 3a with Climate Change	0	0.0
Area in Flood Zone 3a	58	2.3
Area in Flood Zone 3b	512	20.4

MAIN RIVER

The Upper Thames flows north to south through this Resource Area. There are several smaller watercourses that feed into the Upper Thames including the Hinksey Drain, Littlemore Brook, Radley Park Ditch and the Radley Brook.

FLOOD RECORDS

There are records of flooding along the Upper Thames floodplain, along the eastern side of the Resource Area. Properties in South Hinksey and east Radley have been affected by fluvial flooding.

Thames Water has records of properties affected by sewer flooding in the northern half of the Resource Area, in Kennington.

Modelling of the 1 in 100 year storm event, undertaken as part of the SODC & VVHDC SFRA, identifies parts of the Resource Area to be at risk of surface water flooding.

Location Overview



Legend

- County/District Boundary
- Parish Boundary
- Mineral Resource Area
- Canal
- Flood Zone 2
- Flood Zone 3a
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- EA Historic Flood Outline
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- July 2007 Flood Records
- Groundwater Flooding
- EA Main Rivers

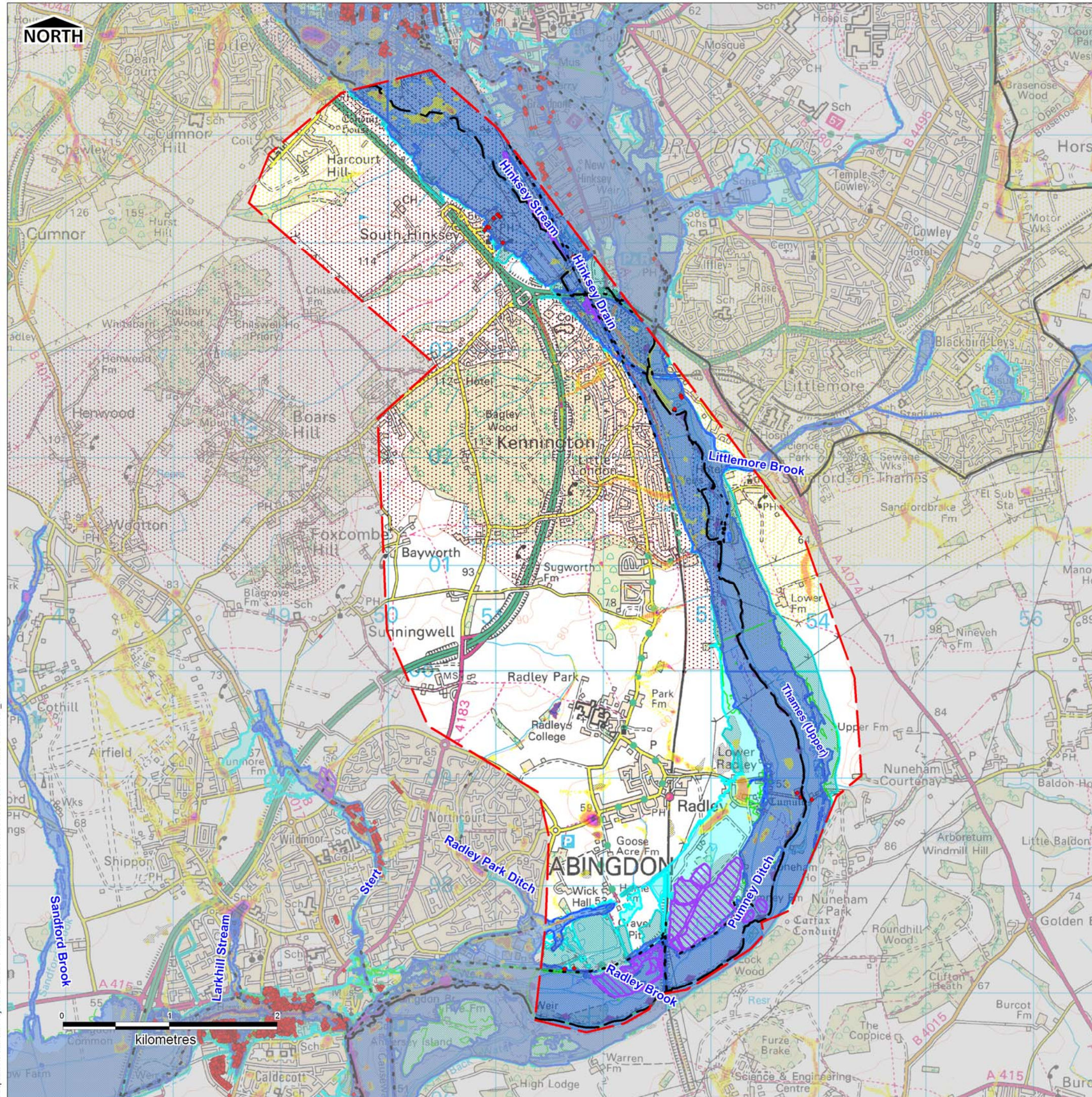
Sewer Flooding Incidents	Surface Water Flooding	
	1 in 100 year: Max depth [m]	
0 to 0	0.0 - 0.1	0.5 - 0.6
1 to 2	0.1 - 0.2	0.6 - 0.7
3 to 4	0.2 - 0.3	0.7 - 0.8
5 to 8	0.3 - 0.4	0.8 - 5.0
9 to 11	0.4 - 0.5	

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