






THIS DRAWING MAY BE USED ONLY FOR THE PURPOSE INTENDED

Legend

-  Study Area
-  Administrative Boundary
-  Main River
-  Ordinary Watercourse
-  Culverted Watercourse

Notes



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Loughton Location Plan

Commercial in Confidence

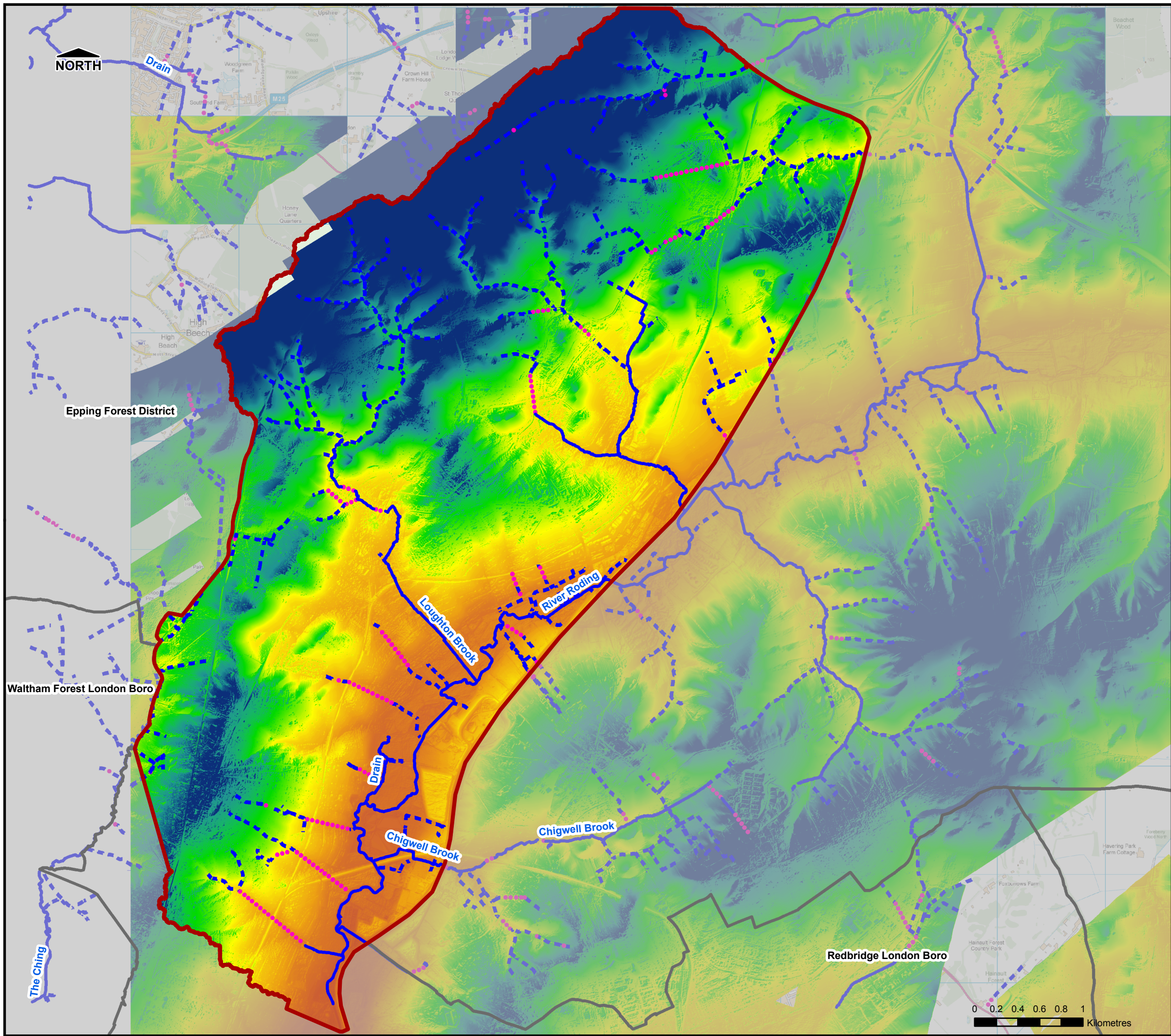
Consultant

CAPITA

Flood Risk Management






Capita
65 Gresham Street
London
EC2V 7NQ

FIGURE 1

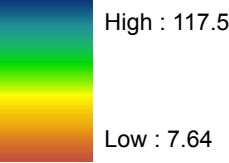


THIS DRAWING MAY BE USED ONLY FOR
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Legend

-  Study Area
-  Administrative Boundary
-  Main River
-  Ordinary Watercourse
-  Culverted Watercourse

Value



Notes



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**Digital Terrain Model
Overview**

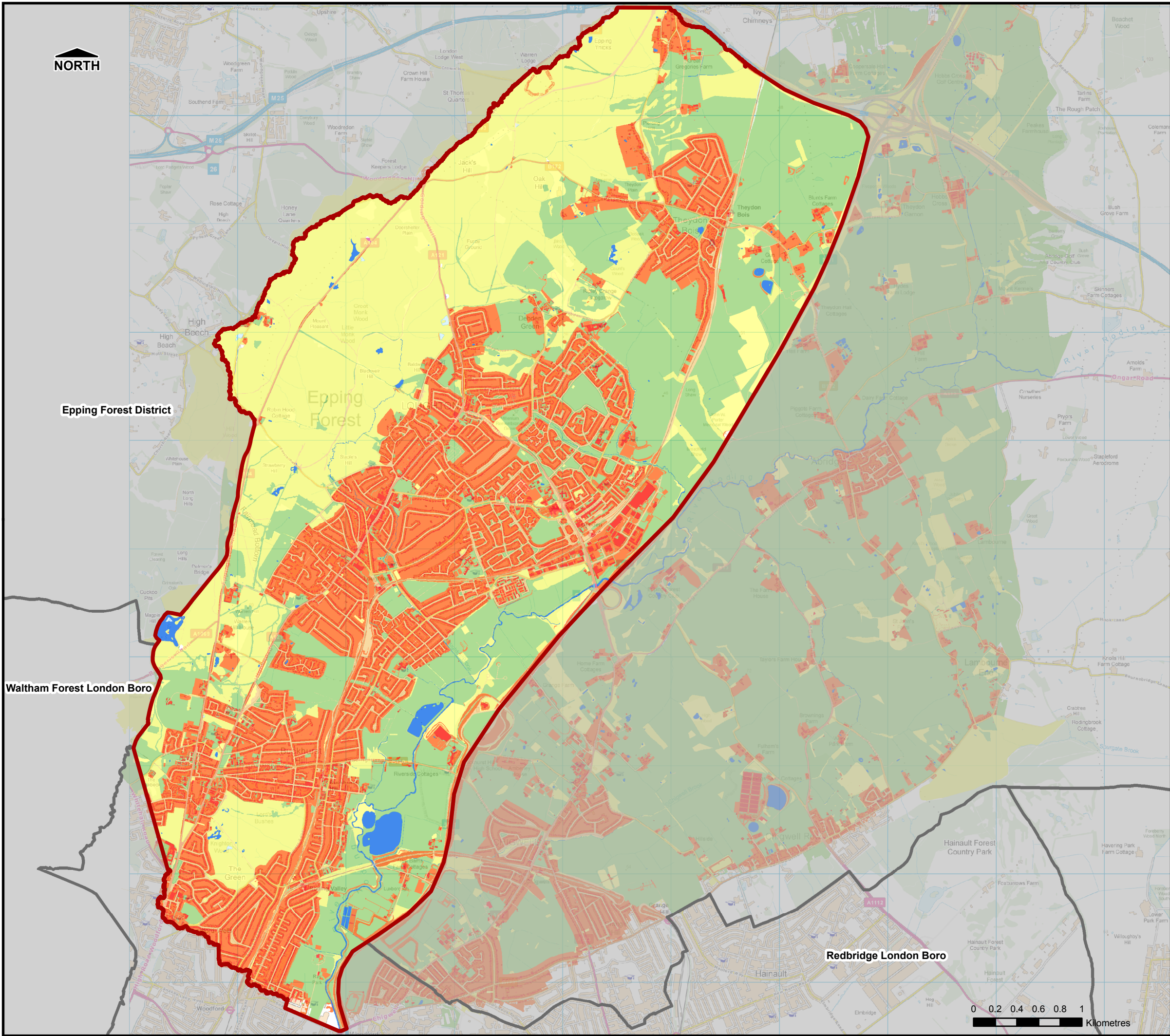
Commercial in Confidence

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
Capita
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FIGURE 2



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Legend

-  Study Area
-  Administrative Boundary
-  Building/ Structure
-  General Surface (Manmade)
-  General Surface (Natural)
-  Inland Water
-  Paths, Roads, Tracks or Rail
-  Unclassified, Land
-  Tidal Water

Notes



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Landuse Map Overview

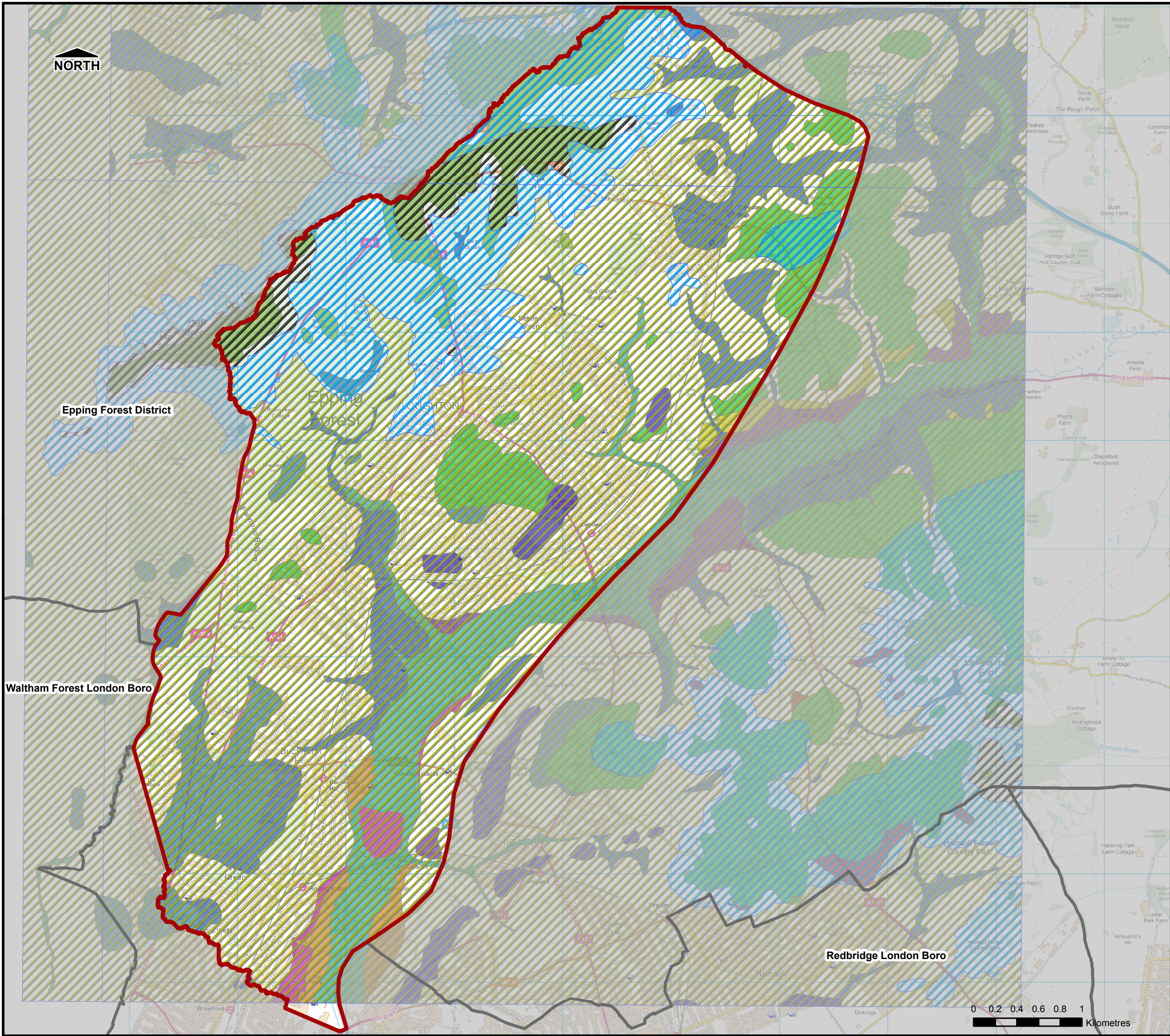
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FIGURE 3



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Legend



Study Area



Administrative Boundary

Bedrock



BAGSHOT FORMATION



CLAYGATE MEMBER



LONDON CLAY FORMATION

Superficial Deposits



ALLUVIUM



BOYN HILL GRAVEL MEMBER



GLACIOFLUVIAL DEPOSITS, MID PLEISTOCENE



HACKNEY GRAVEL MEMBER



HEAD



KEMPTON PARK GRAVEL FORMATION



LOWESTOFT FORMATION



RODING SILT MEMBER



STANMORE GRAVEL FORMATION



TAPLOW GRAVEL FORMATION



WOODFORD GRAVEL FORMATION

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1:34,000

Date

Mar. 2016

Drawn by

G.ATHANASIA

Approved by

C.DESPINS

Geological Map Overview

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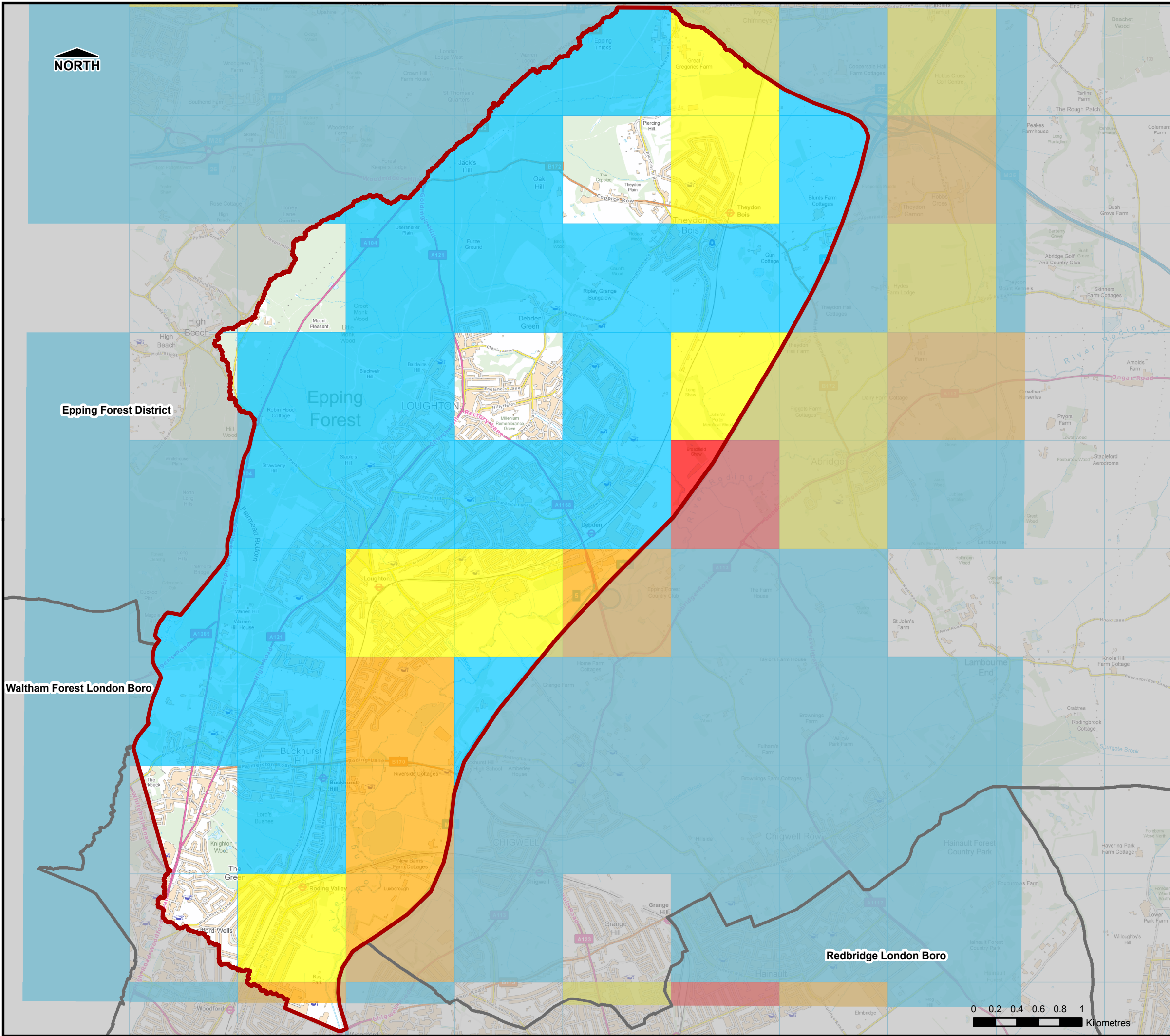
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FIGURE 4



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Legend

- Study Area
- Administrative Boundary
- Susceptibility to Groundwater Flooding**
- Very High; $\geq 75\%$
- High; $\geq 50\% < 75\%$
- Moderate; $\geq 25\% < 50\%$
- Low; $< 25\%$

Notes

This susceptibility data is suitable for use for regional or national planning purposes where the groundwater flooding information will be used along with a range of other relevant information to inform land-use planning decisions. The susceptibility data should not be used on its own to make planning decisions at any scale, and, in particular, should not be used to inform planning decisions at the site scale. The susceptibility data cannot be used on its own to indicate risk of groundwater flooding.

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Environment Agency
Areas Susceptible to Groundwater Flooding
Overview

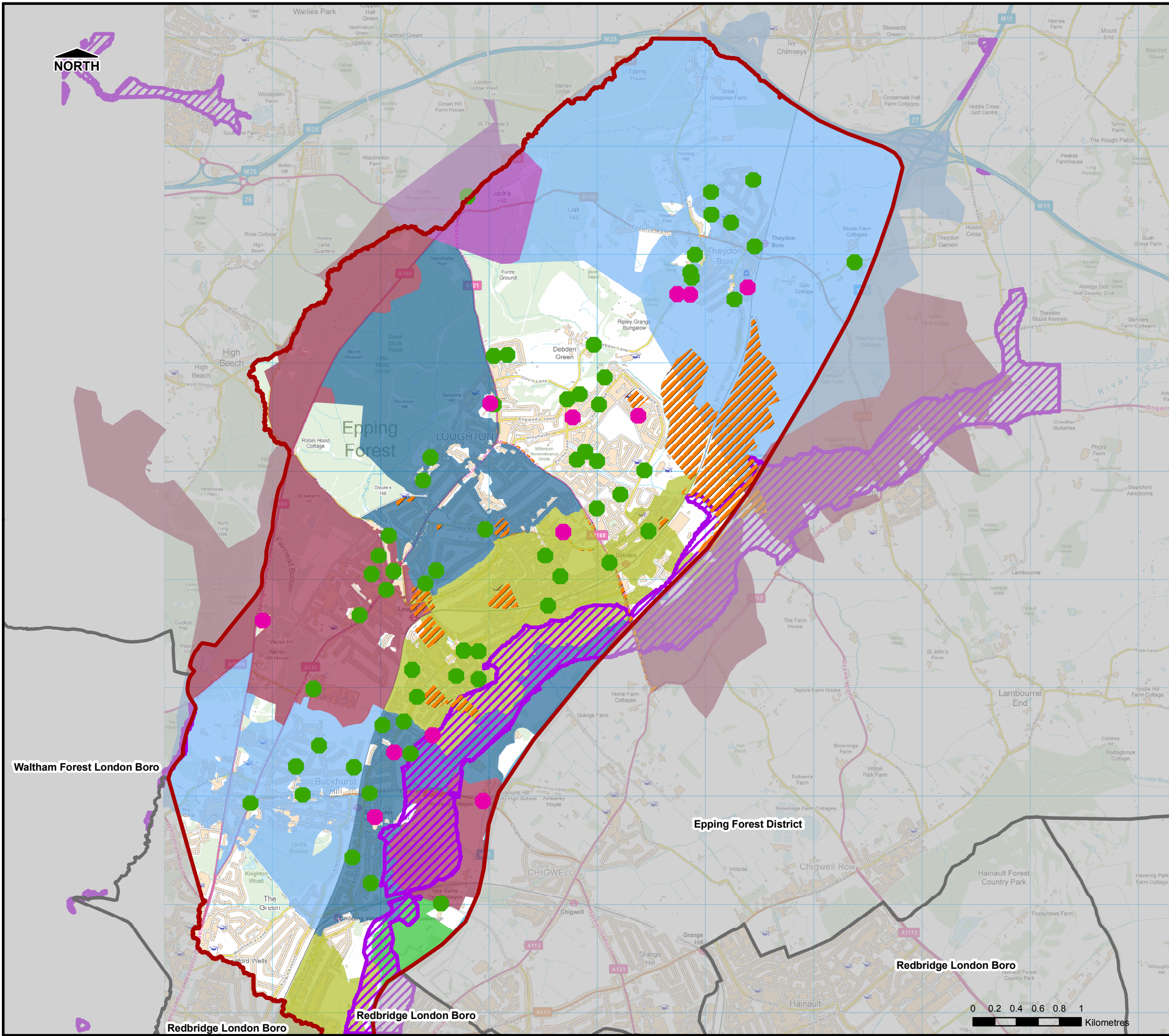
Commercial in Confidence

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FIGURE 5



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Legend

- Study Area
- Administrative Boundary
- Environment Agency Historic Flood Map
- Historic Flood Outline 18th June 2015
- ECC Historic Flood Records
- ECC Flood Incident Records for Epping Forest

Number of Sewer Flooding Records (Epping Forest)

- 1
- 2
- 4
- 5
- 10
- 11

Notes



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Historical Flooding Overview

Commercial in Confidence

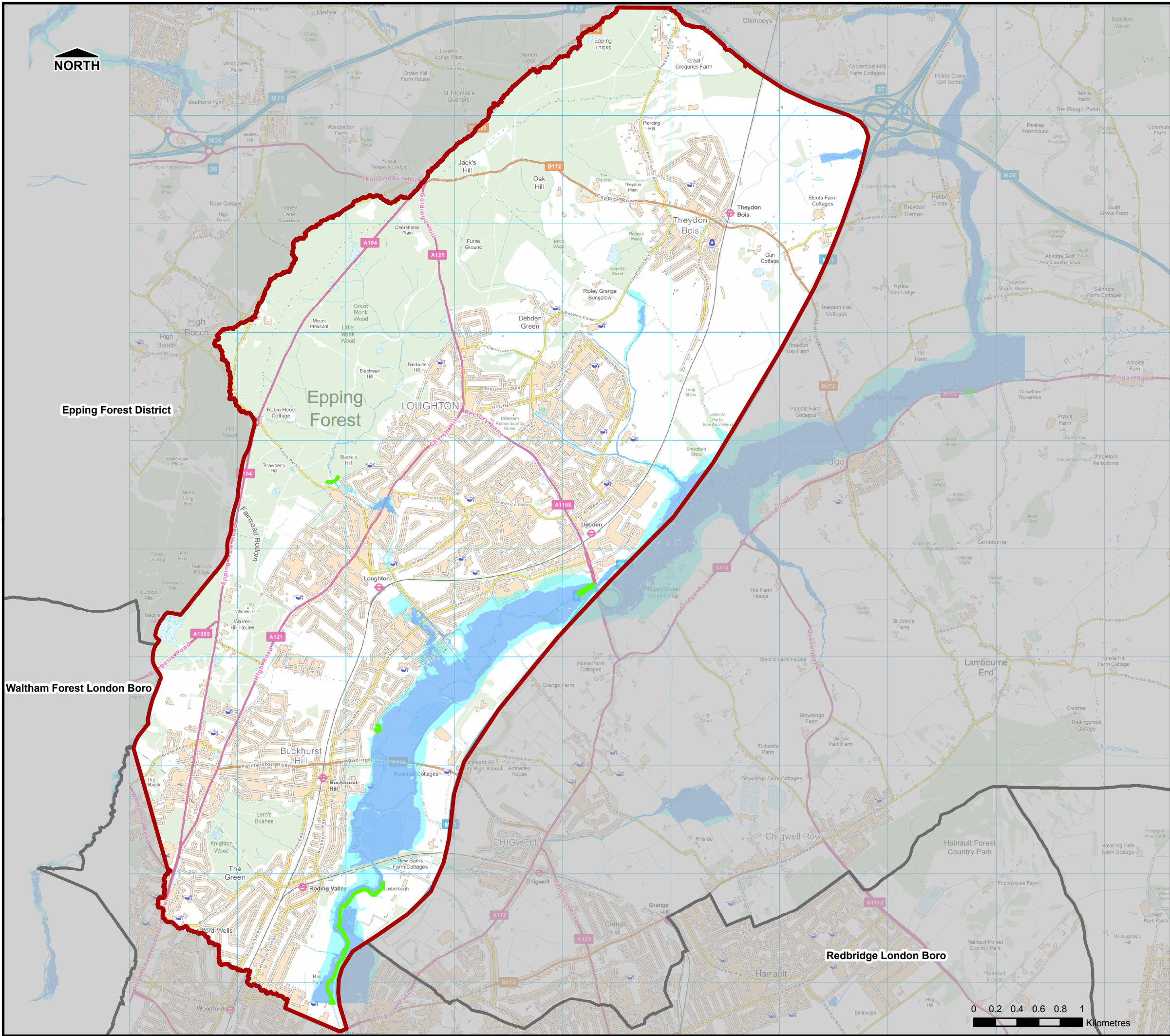
Consultant



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FIGURE 6



THIS DRAWING MAY BE USED ONLY FOR
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Legend

-  Study Area
-  Administrative Boundary
-  Environment Agency Flood Zone 2
-  Environment Agency Flood Zone 3
-  Defences

Notes

- Environment Agency Flood Zone 3: Land assessed, ignoring the presence of flood defences, as having a 1% or greater annual probability of fluvial flooding or a 0.5% or greater annual probability of tidal flooding.
- Environment Agency Flood Zone 2: Land assessed, ignoring the presence of flood defences, as having between a 1% and 0.1% annual probability of fluvial flooding or between a 0.5% and 0.1% annual probability of tidal flooding in any year.
- Environment Agency - Areas that benefit from flood defences: land that may benefit from the presence of major defences during a 1% fluvial or 0.5% tidal event. These are areas that would flood if the defence were not present, but may not flood because the defence is present. Areas benefiting from flood storage areas may be remote from the flood defence structure.
- Environment Agency Flood Defences: The map displays the location of linear raised flood defences such as embankments & walls

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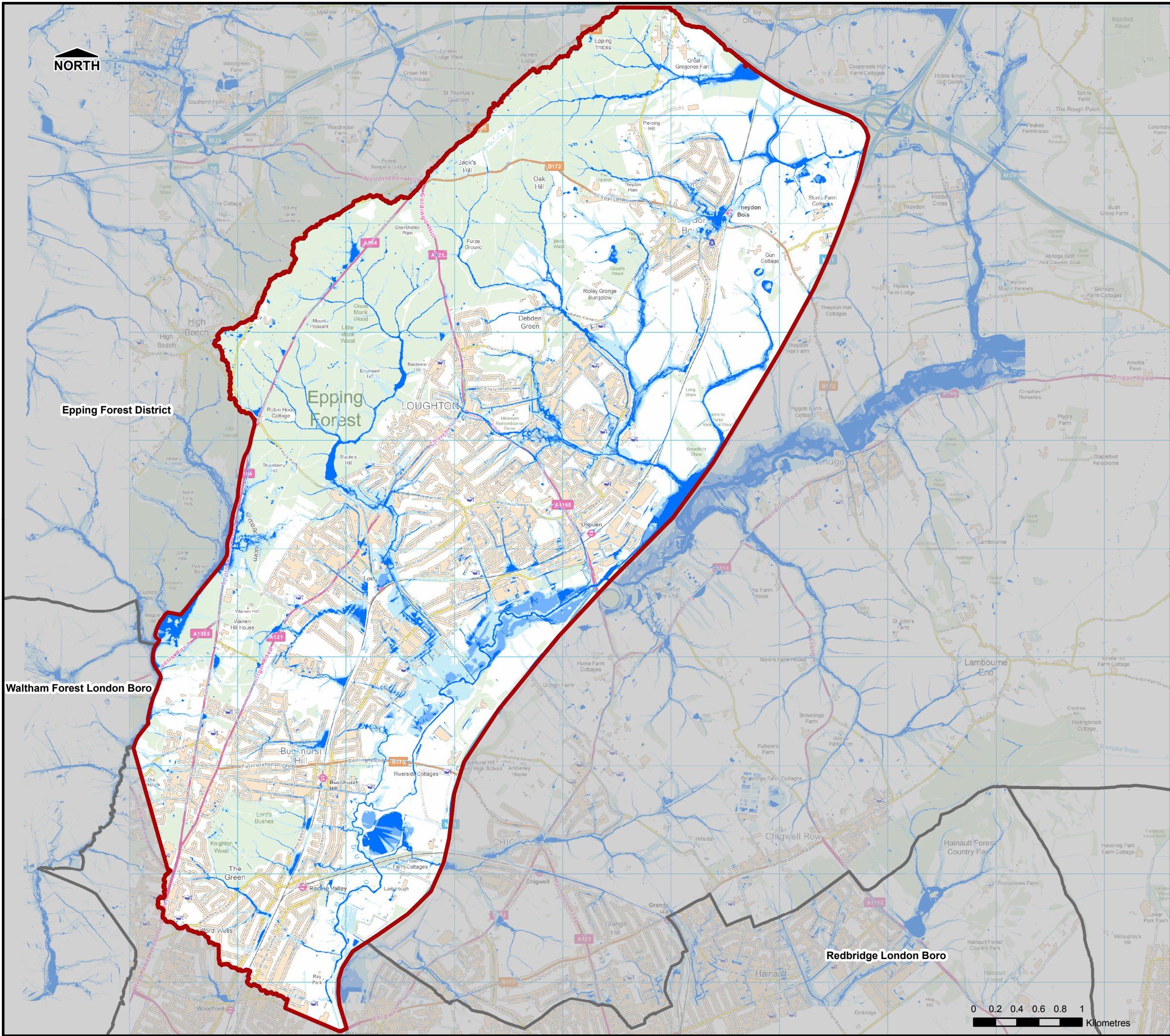
**Environment Agency
Flood Zones
Overview**
Commercial in Confidence

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FIGURE 7







THIS DRAWING MAY BE USED ONLY FOR THE PURPOSE INTENDED

Legend

-  Study Area
-  Administrative Boundary

Predicted likelihood of surface water flooding - Depth

-  High
-  Medium
-  Low
-  Very Low

Notes



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Surface Water Management Plan

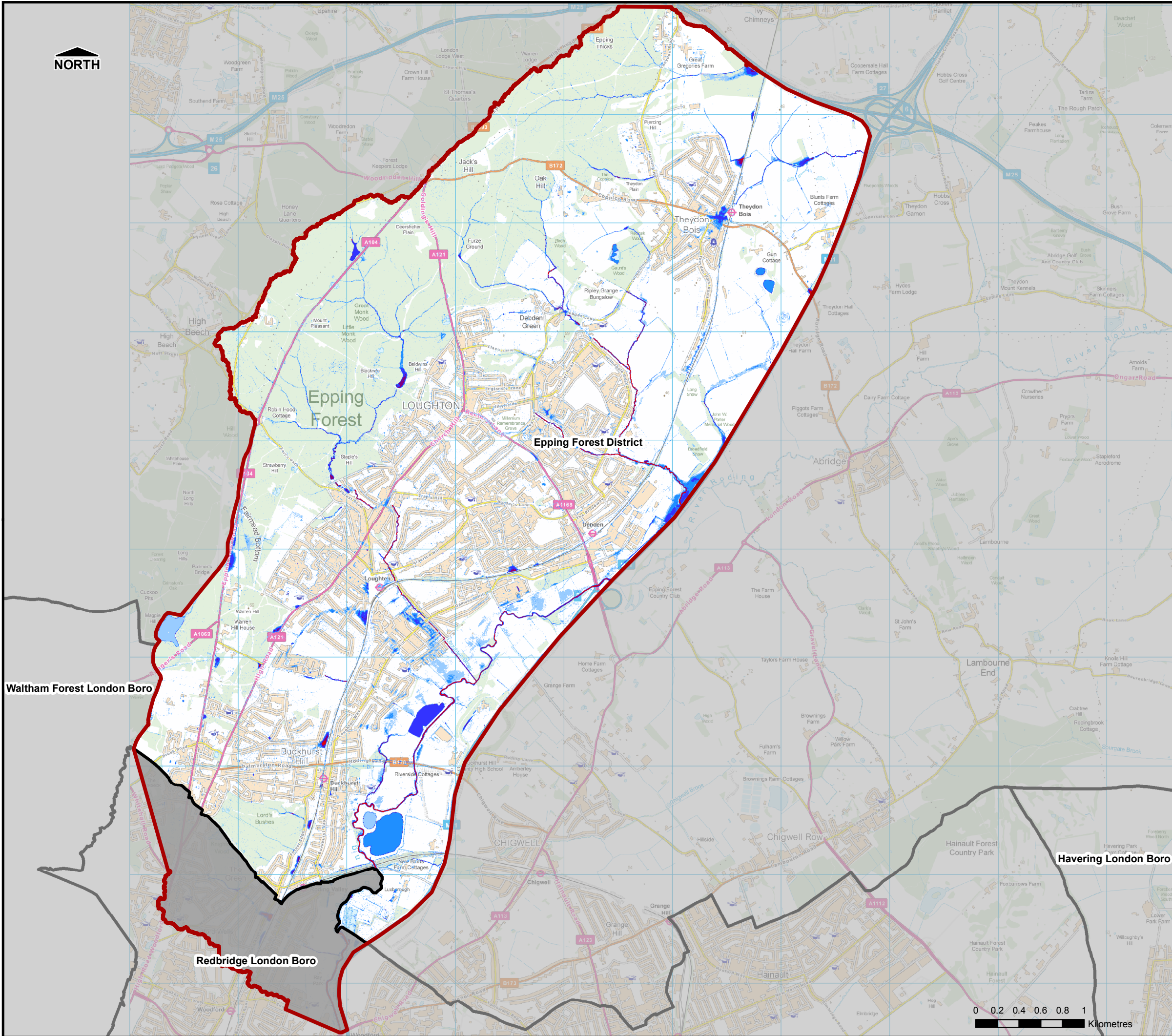
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Scale at A3	Date	Drawn by	Approved by
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**Environment Agency
Updated Flood Map for Surface Water
Overview
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EC2V 7NQ

FIGURE 8



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Legend

- Study Area
- Administrative Boundary

Flood Depth (m)

- <0.1m
- 0.1m - 0.25m
- 0.25m - 0.5m
- 0.5m - 1m
- 1.0m - 1.5m
- >1.5m

Notes

Refer to the Modelling Methodology of the Loughton SWMP document for details of the limitations and assumptions that need to be accounted for when interpreting the modelled flood depths / hazard extents shown on this figure.

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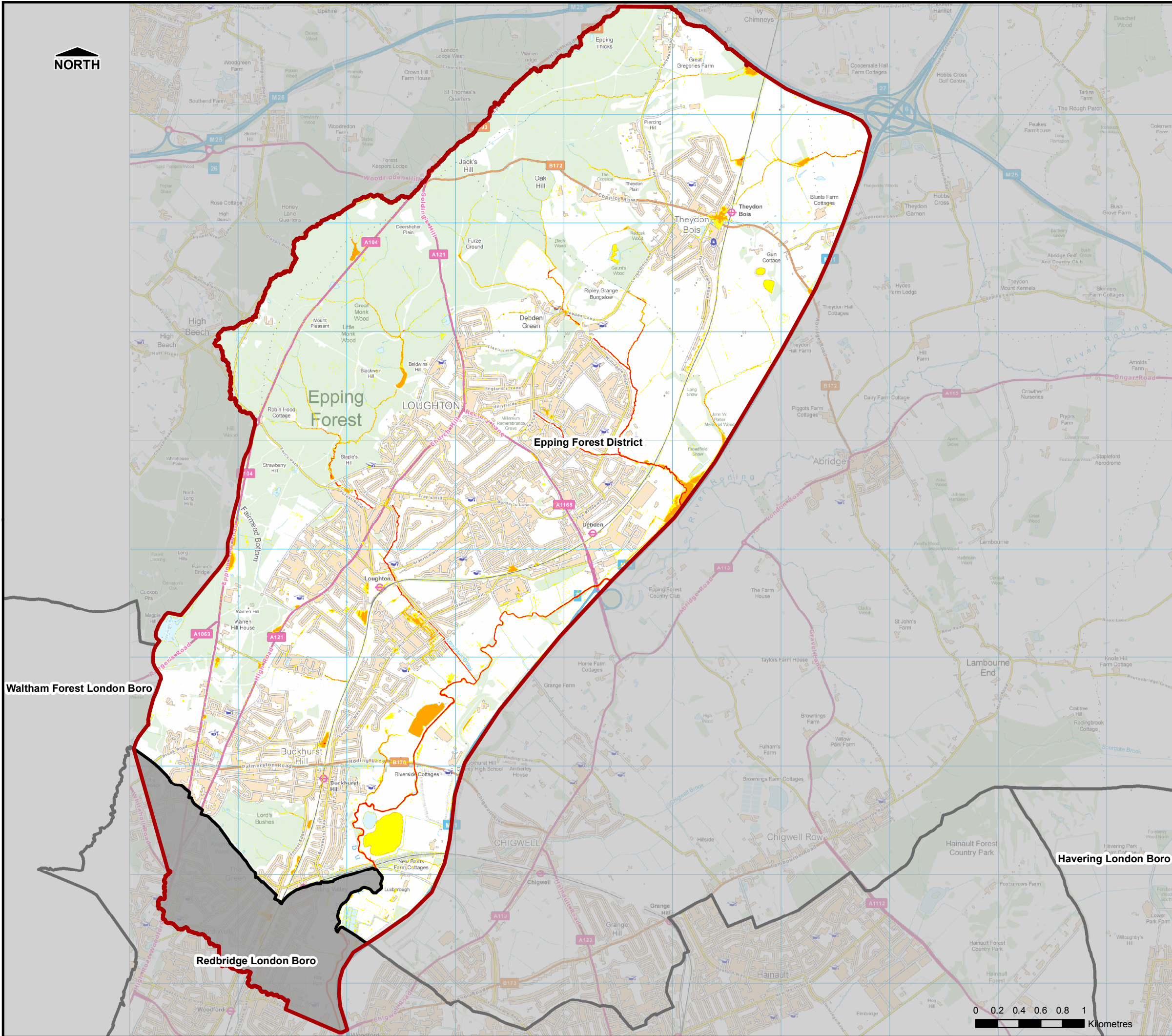
**Surface Water
Flood Depth
1 in 10yr, 3hr duration
Commercial in Confidence**

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FIGURE 9.1



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Legend

- Study Area
- Administrative Boundary

Flood Hazard

- Caution (Very Low Hazard)
- Moderate (Danger for Some)
- Significant (Danger for Most)
- Extreme (Danger for All)

Notes

Refer to the Modelling Methodology of the Loughton SWMP document for details of the limitations and assumptions that need to be accounted for when interpreting the modelled flood depths / hazard extents shown on this figure.

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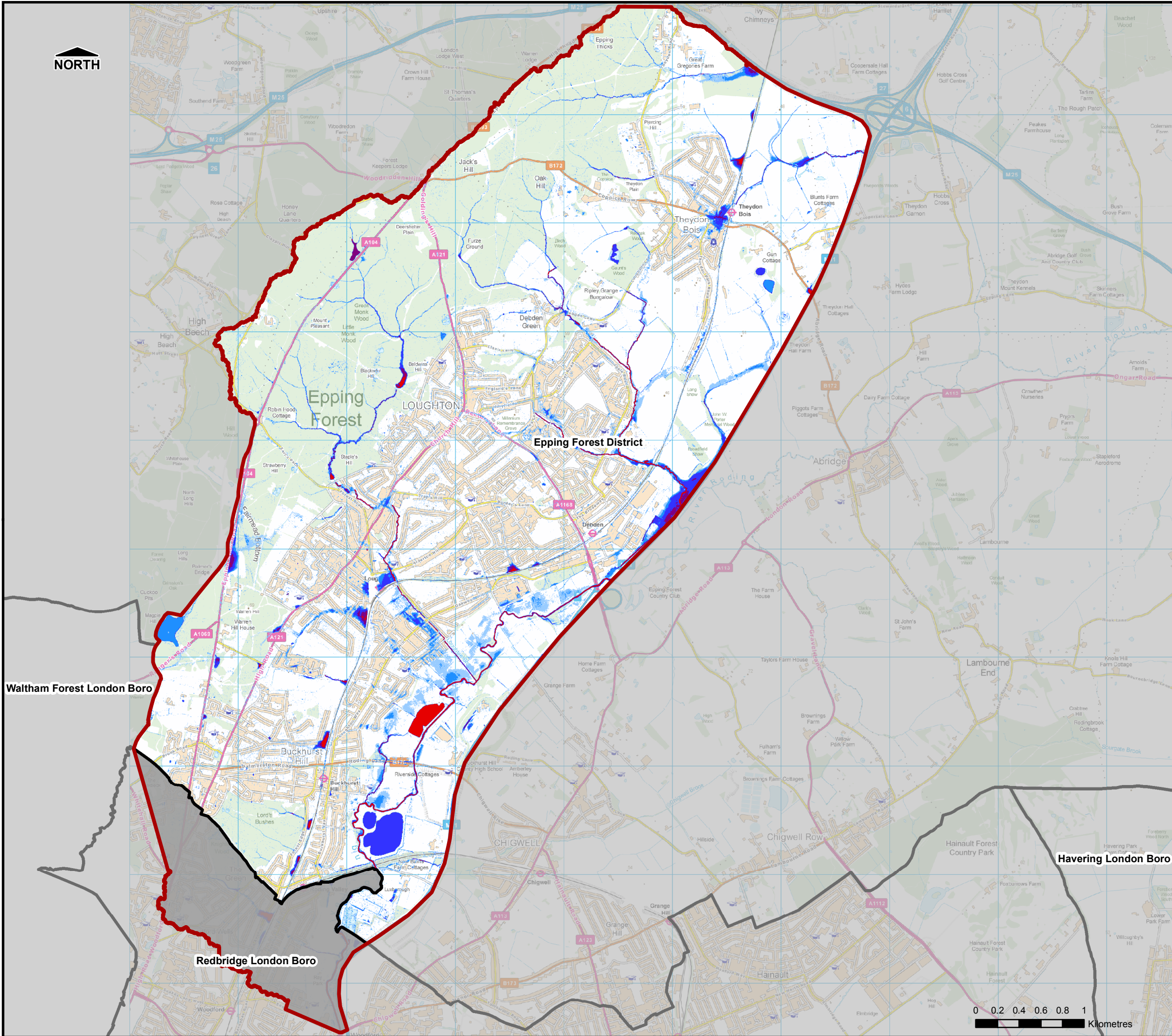
**Surface Water
Flood Hazard
1 in 10yr, 3hr duration
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FIGURE 9.2









THIS DRAWING MAY BE USED ONLY FOR THE PURPOSE INTENDED

Legend

-  Study Area
-  Administrative Boundary

Flood Depth (m)

-  <0.1m
-  0.1m - 0.25m
-  0.25m - 0.5m
-  0.5m - 1m
-  1.0m - 1.5m
-  >1.5m

Notes

Refer to the Modelling Methodology of the Loughton SWMP document for details of the limitations and assumptions that need to be accounted for when interpreting the modelled flood depths / hazard extents shown on this figure.

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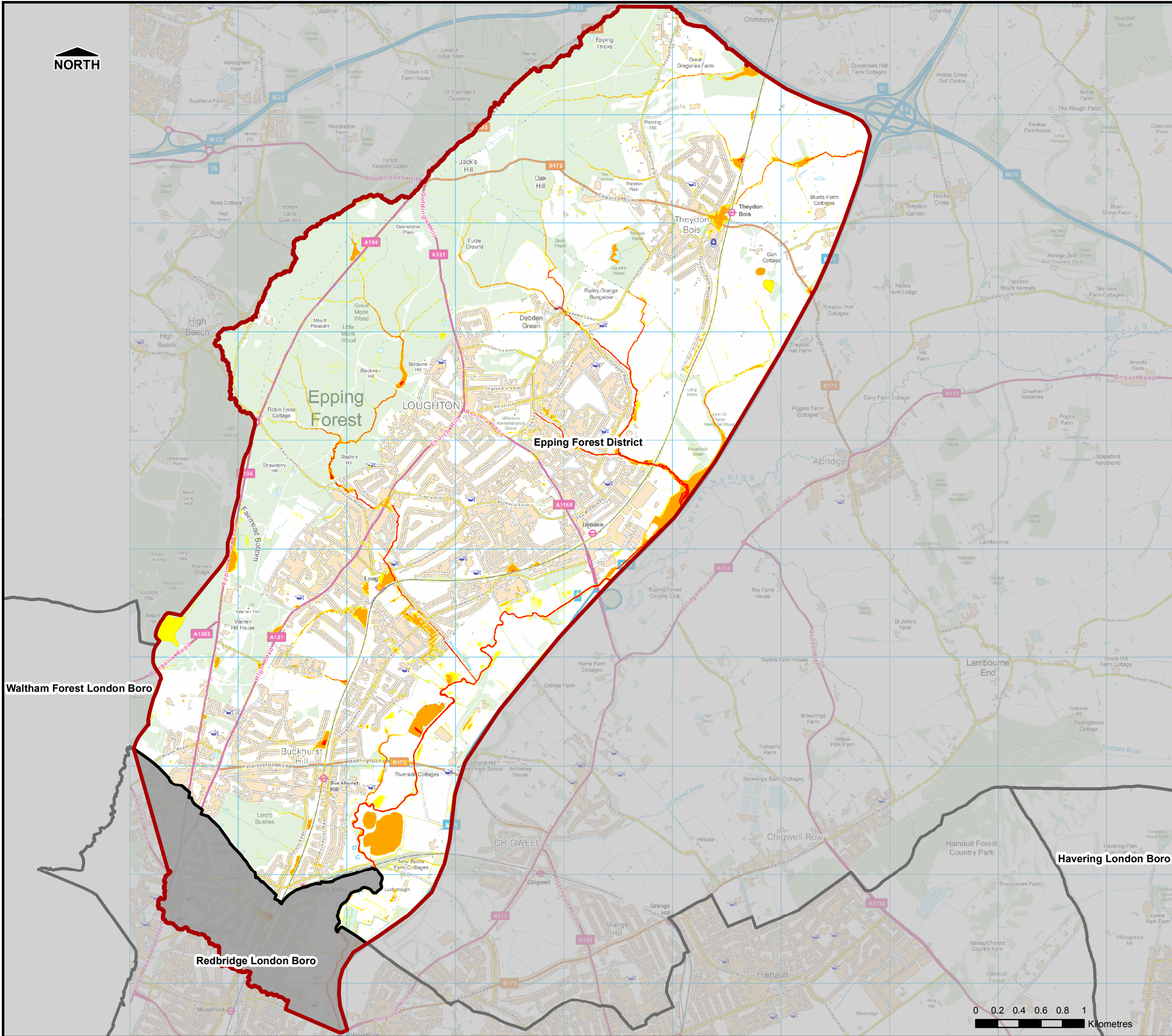
**Surface Water
Flood Depth
1 in 30yr, 3hr duration
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FIGURE 9.3



THIS DRAWING MAY BE USED ONLY FOR THE PURPOSE INTENDED

Legend

- Study Area
- Administrative Boundary

Flood Hazard

- Caution (Very Low Hazard)
- Moderate (Danger for Some)
- Significant (Danger for Most)
- Extreme (Danger for All)

Notes

Refer to the Modelling Methodology of the Loughton SWMP document for details of the limitations and assumptions that need to be accounted for when interpreting the modelled flood depths / hazard extents shown on this figure.

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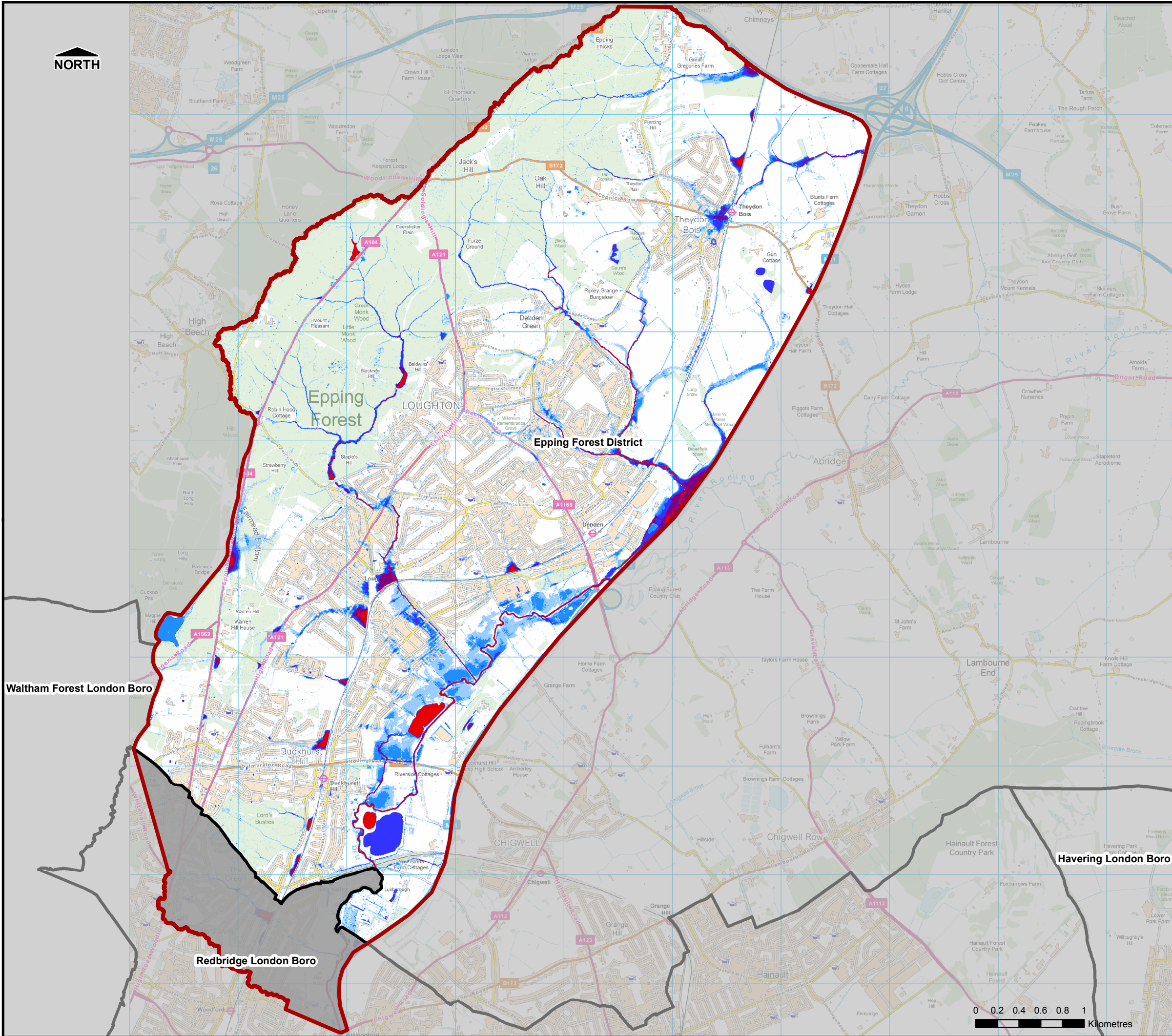
**Surface Water
Flood Hazard
1 in 30yr, 3hr duration
Commercial in Confidence**

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FIGURE 9.4



THIS DRAWING MAY BE USED ONLY FOR THE PURPOSE INTENDED

Legend

- Study Area
- Administrative Boundary

Flood Depth (m)

- <0.1m
- 0.1m - 0.25m
- 0.25m - 0.5m
- 0.5m - 1m
- 1.0m - 1.5m
- >1.5m

Notes

Refer to the Modelling Methodology of the Loughton SWMP document for details of the limitations and assumptions that need to be accounted for when interpreting the modelled flood depths / hazard extents shown on this figure.

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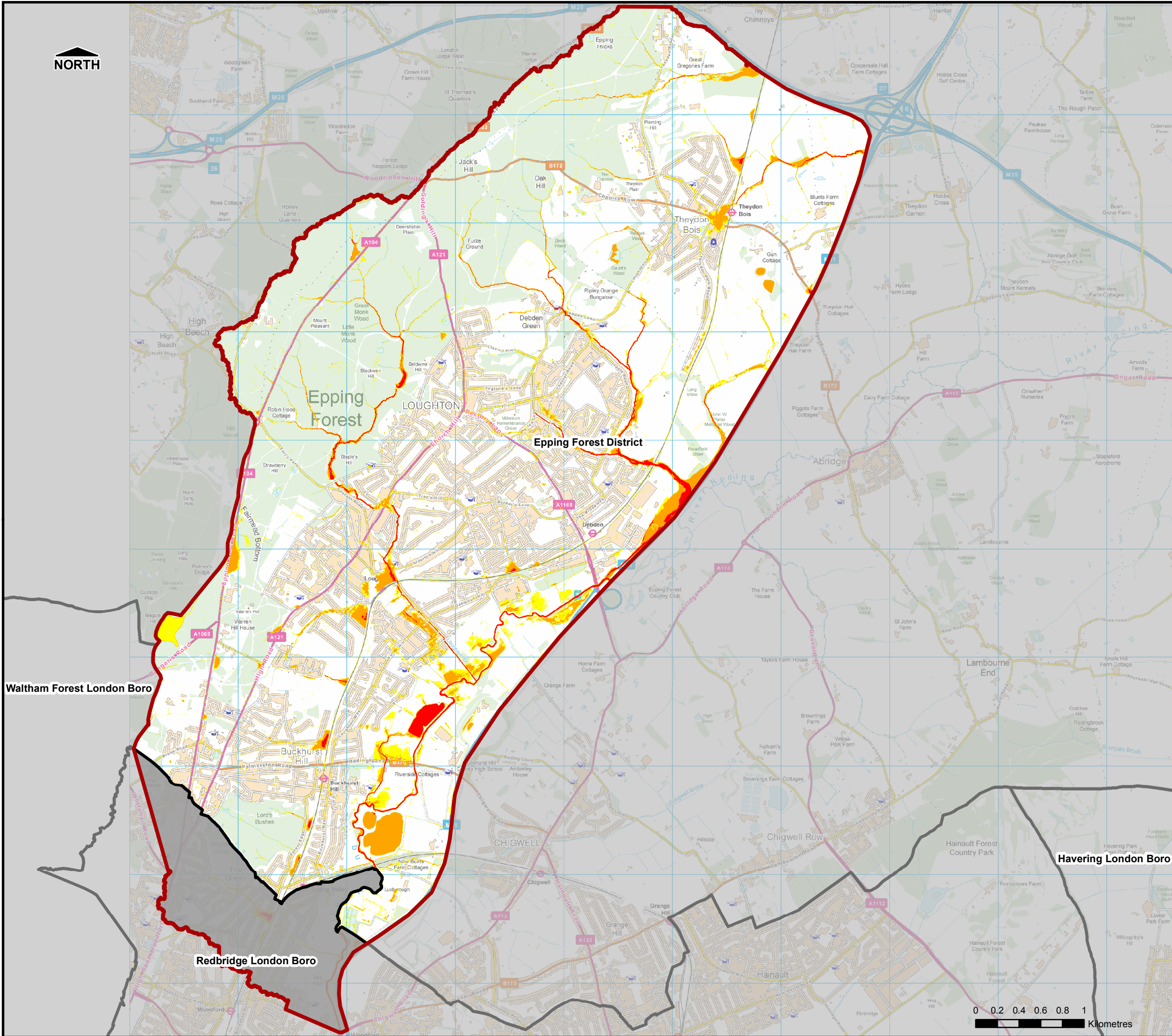
**Surface Water
Flood Depth
1 in 75yr, 3hr duration
Commercial in Confidence**

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FIGURE 9.5



THIS DRAWING MAY BE USED ONLY FOR THE PURPOSE INTENDED

Legend

- Study Area
- Administrative Boundary

Flood Hazard

- Caution (Very Low Hazard)
- Moderate (Danger for Some)
- Significant (Danger for Most)
- Extreme (Danger for All)

Notes

Refer to the Modelling Methodology of the Loughton SWMP document for details of the limitations and assumptions that need to be accounted for when interpreting the modelled flood depths / hazard extents shown on this figure.

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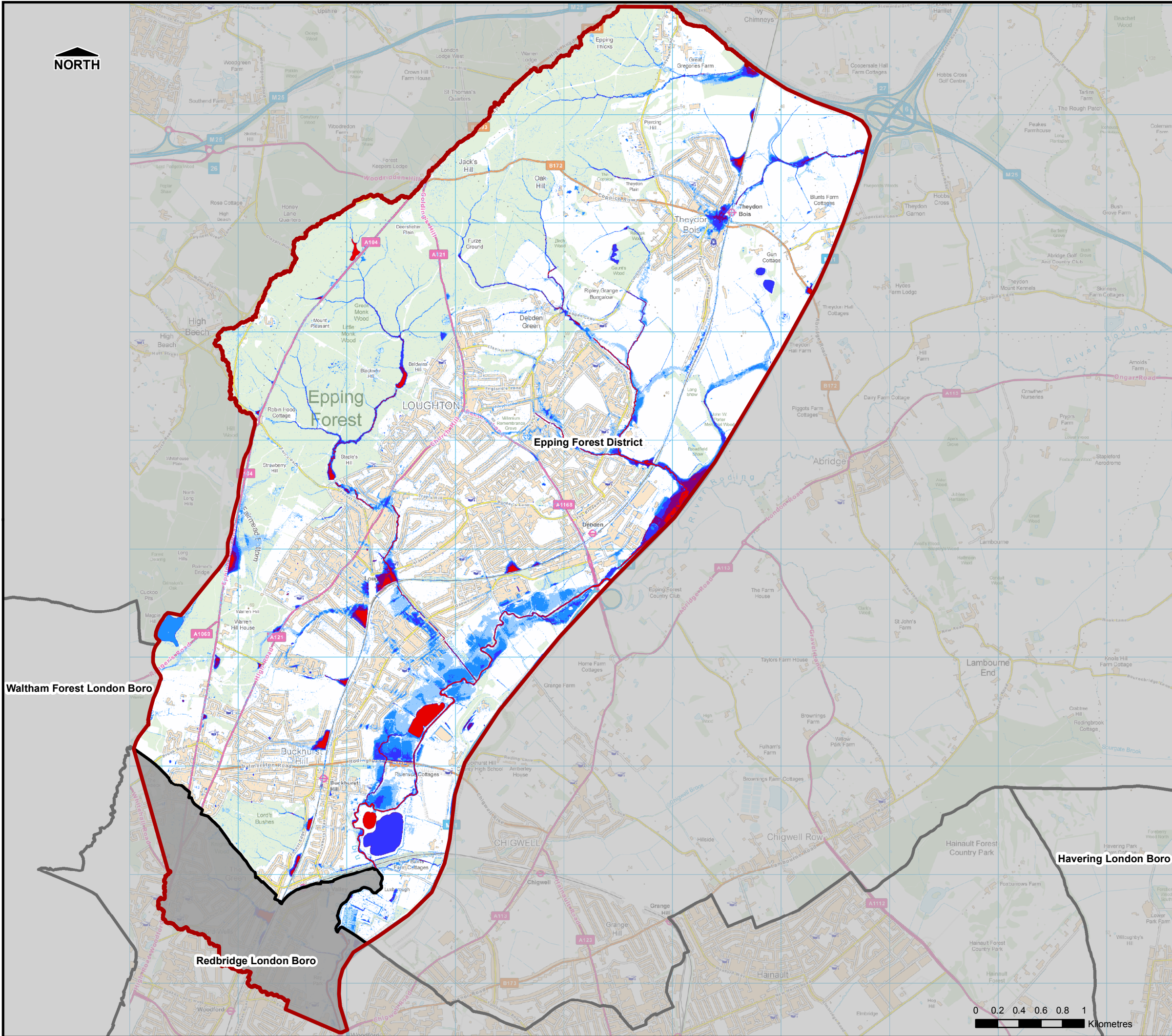
**Surface Water
Flood Hazard
1 in 75yr, 3hr duration
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London
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FIGURE 9.6



THIS DRAWING MAY BE USED ONLY FOR THE PURPOSE INTENDED

Legend

- Study Area
- Administrative Boundary

Flood Depth (m)

- <0.1m
- 0.1m - 0.25m
- 0.25m - 0.5m
- 0.5m - 1m
- 1.0m - 1.5m
- >1.5m

Notes

Refer to the Modelling Methodology of the Loughton SWMP document for details of the limitations and assumptions that need to be accounted for when interpreting the modelled flood depths / hazard extents shown on this figure.

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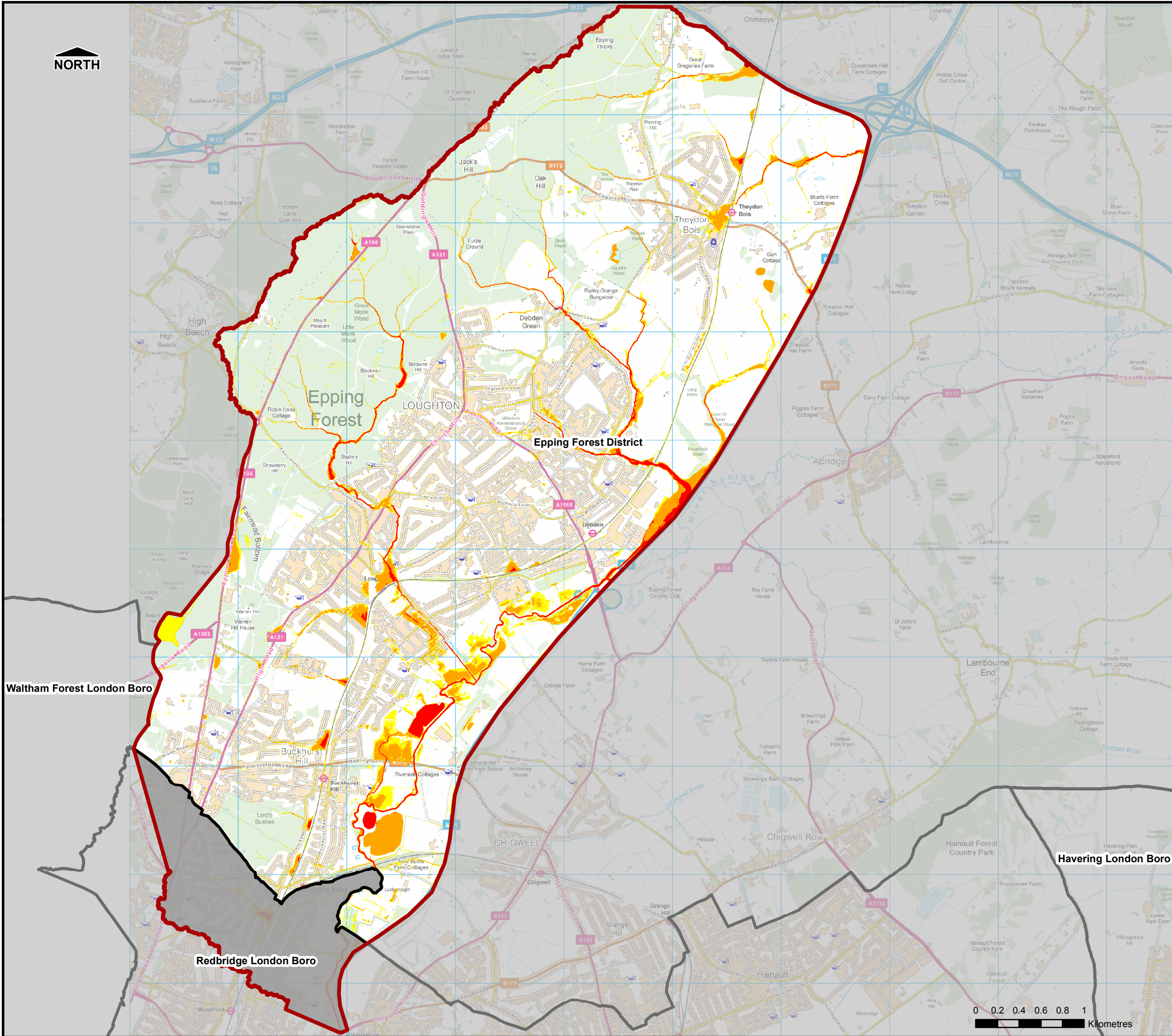
**Surface Water
Flood Depth
1 in 100yr, 3hr duration
Commercial in Confidence**

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FIGURE 9.7



THIS DRAWING MAY BE USED ONLY FOR THE PURPOSE INTENDED

Legend

- Study Area
- Administrative Boundary

Flood Hazard

- Caution (Very Low Hazard)
- Moderate (Danger for Some)
- Significant (Danger for Most)
- Extreme (Danger for All)

Notes

Refer to the Modelling Methodology of the Loughton SWMP document for details of the limitations and assumptions that need to be accounted for when interpreting the modelled flood depths / hazard extents shown on this figure.

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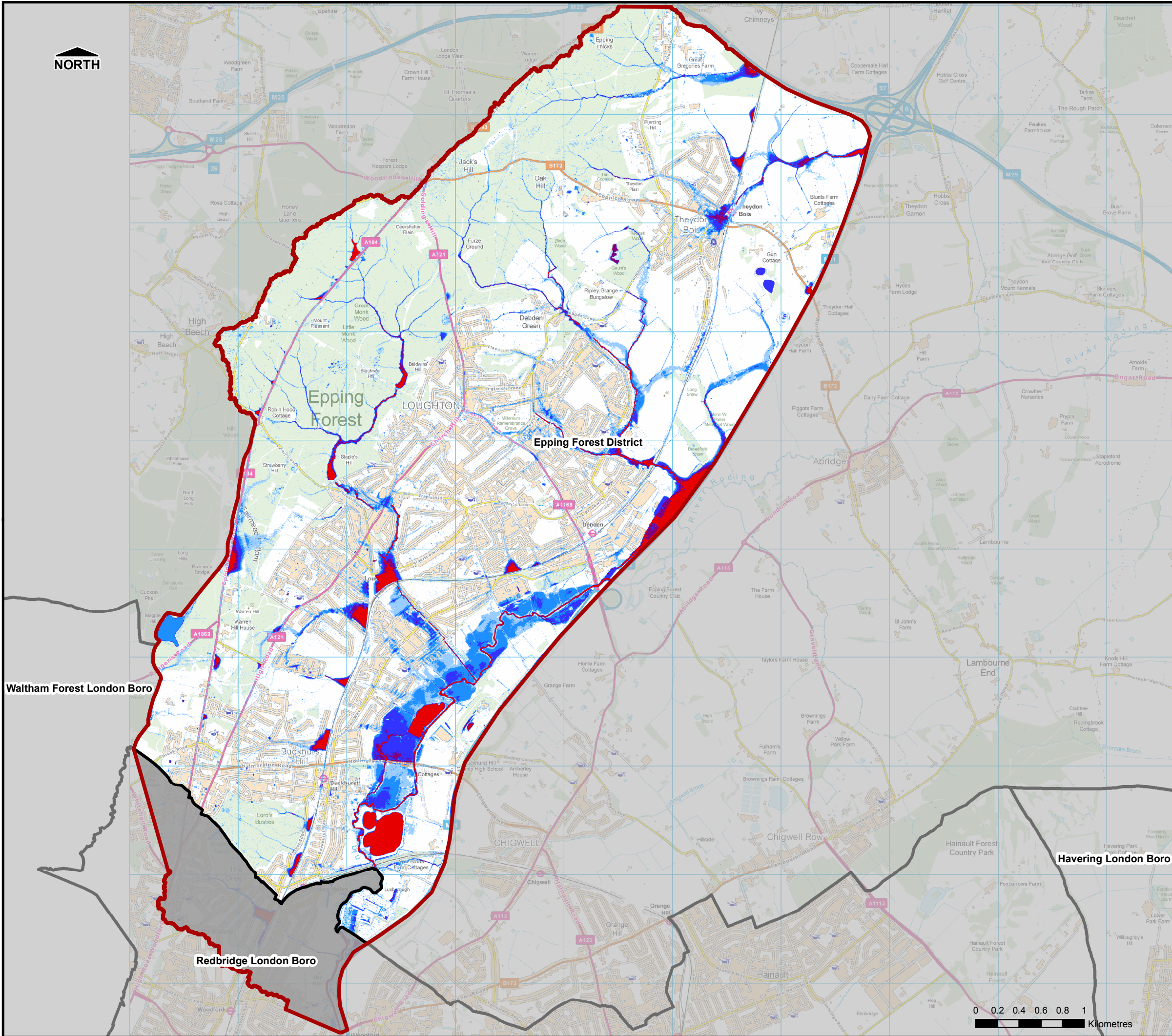
Surface Water
Flood Hazard
1 in 100yr, 3hr duration
Commercial in Confidence

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FIGURE 9.8









THIS DRAWING MAY BE USED ONLY FOR THE PURPOSE INTENDED

Legend

-  Study Area
-  Administrative Boundary

Flood Depth (m)

-  <0.1m
-  0.1m - 0.25m
-  0.25m - 0.5m
-  0.5m - 1m
-  1.0m - 1.5m
-  >1.5m

Notes

Refer to the Modelling Methodology of the Loughton SWMP document for details of the limitations and assumptions that need to be accounted for when interpreting the modelled flood depths / hazard extents shown on this figure.

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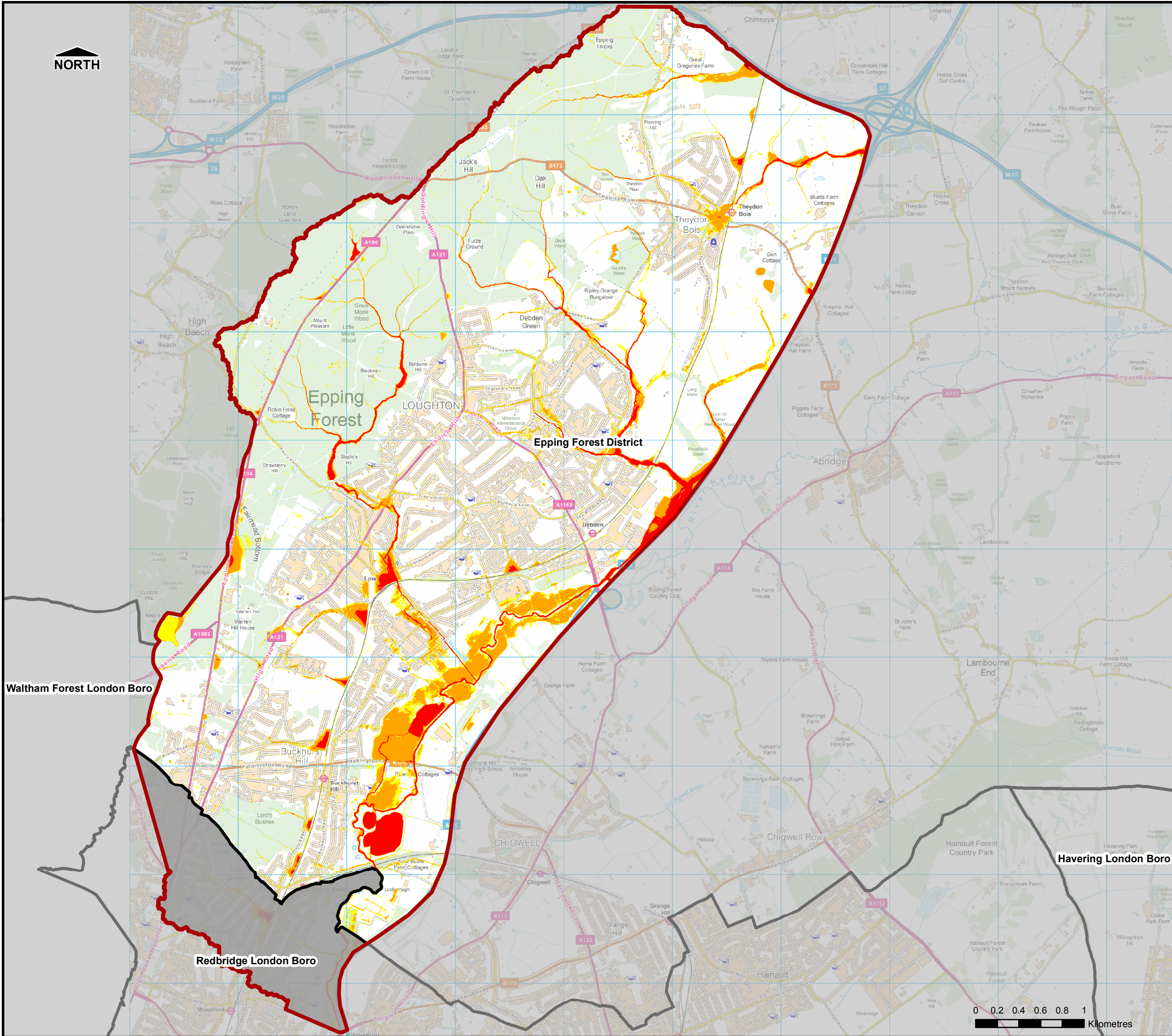
**Surface Water
Flood Depth
1 in 100yr + CC, 3hr duration
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FIGURE 9.9



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Legend

- Study Area
- Administrative Boundary

Flood Hazard

- Caution (Very Low Hazard)
- Moderate (Danger for Some)
- Significant (Danger for Most)
- Extreme (Danger for All)

Notes

Refer to the Modelling Methodology of the Loughton SWMP document for details of the limitations and assumptions that need to be accounted for when interpreting the modelled flood depths / hazard extents shown on this figure.

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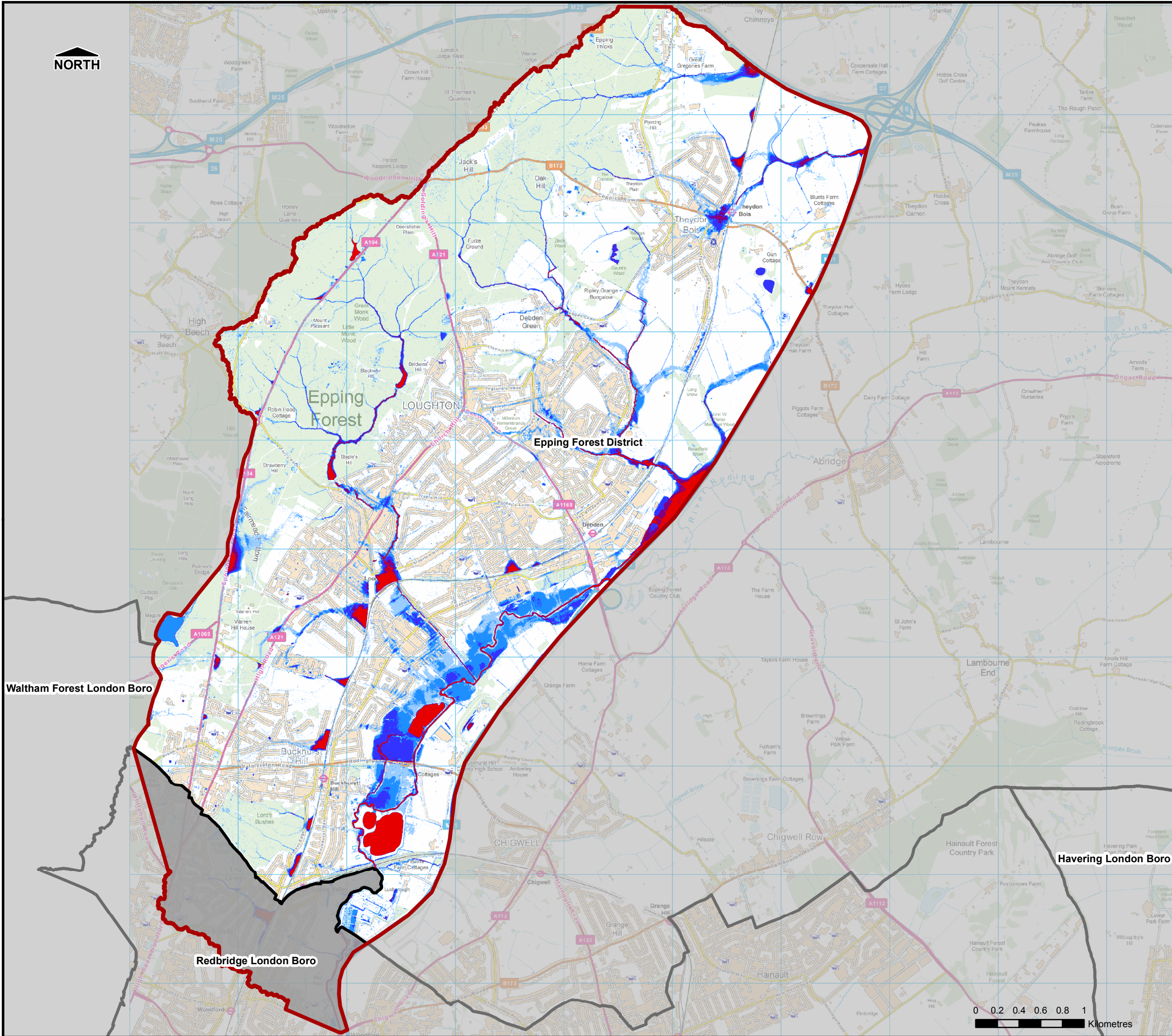
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Flood Hazard
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FIGURE 9.10



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Legend

- Study Area
- Administrative Boundary

Flood Depth (m)

- <0.1m
- 0.1m - 0.25m
- 0.25m - 0.5m
- 0.5m - 1m
- 1.0m - 1.5m
- >1.5m

Notes

Refer to the Modelling Methodology of the Loughton SWMP document for details of the limitations and assumptions that need to be accounted for when interpreting the modelled flood depths / hazard extents shown on this figure.

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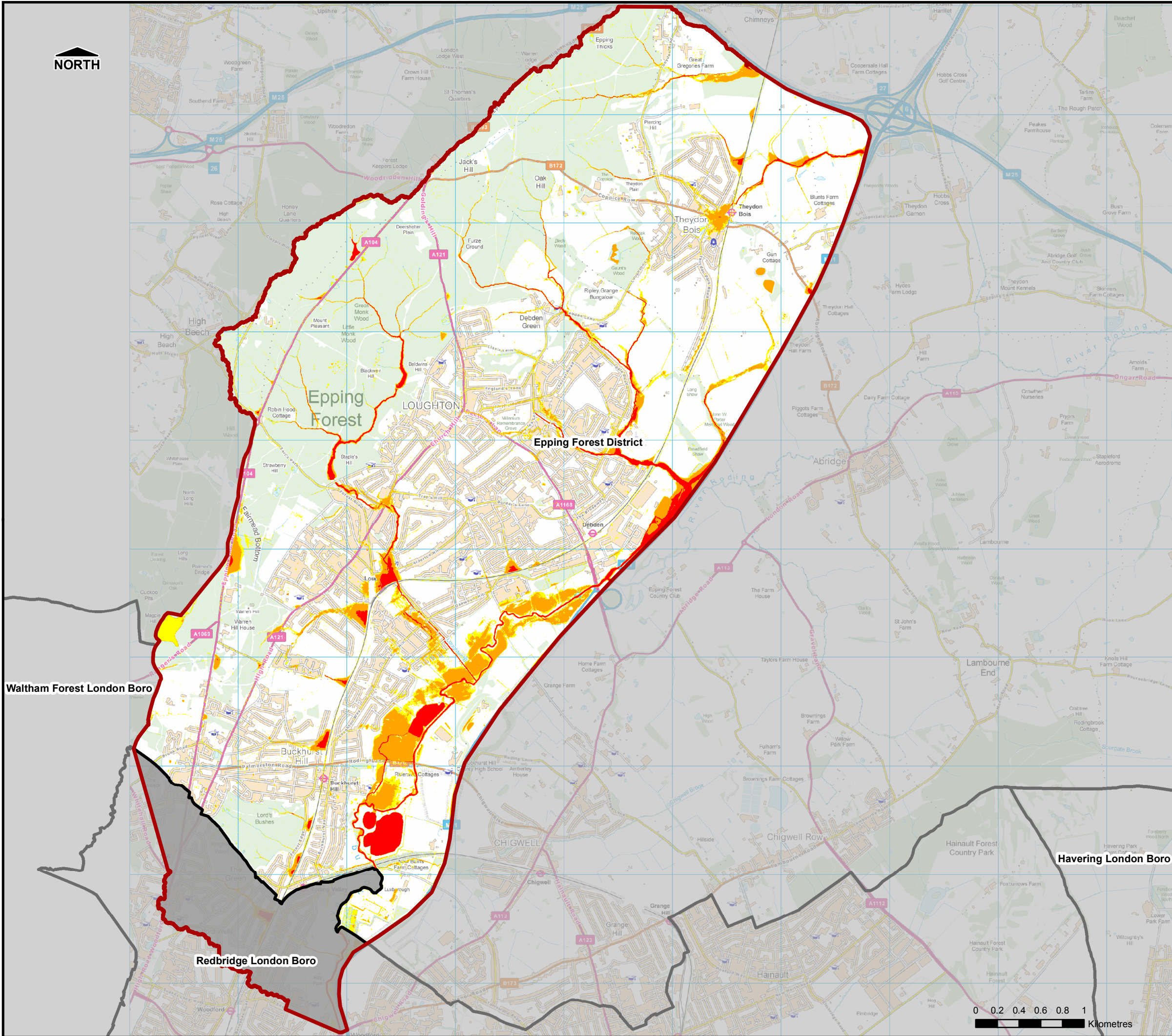
**Surface Water
Flood Depth
1 in 200yr, 3hr duration
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FIGURE 9.11



THIS DRAWING MAY BE USED ONLY FOR THE PURPOSE INTENDED

Legend

- Study Area
- Administrative Boundary

Flood Hazard

- Caution (Very Low Hazard)
- Moderate (Danger for Some)
- Significant (Danger for Most)
- Extreme (Danger for All)

Notes

Refer to the Modelling Methodology of the Loughton SWMP document for details of the limitations and assumptions that need to be accounted for when interpreting the modelled flood depths / hazard extents shown on this figure.

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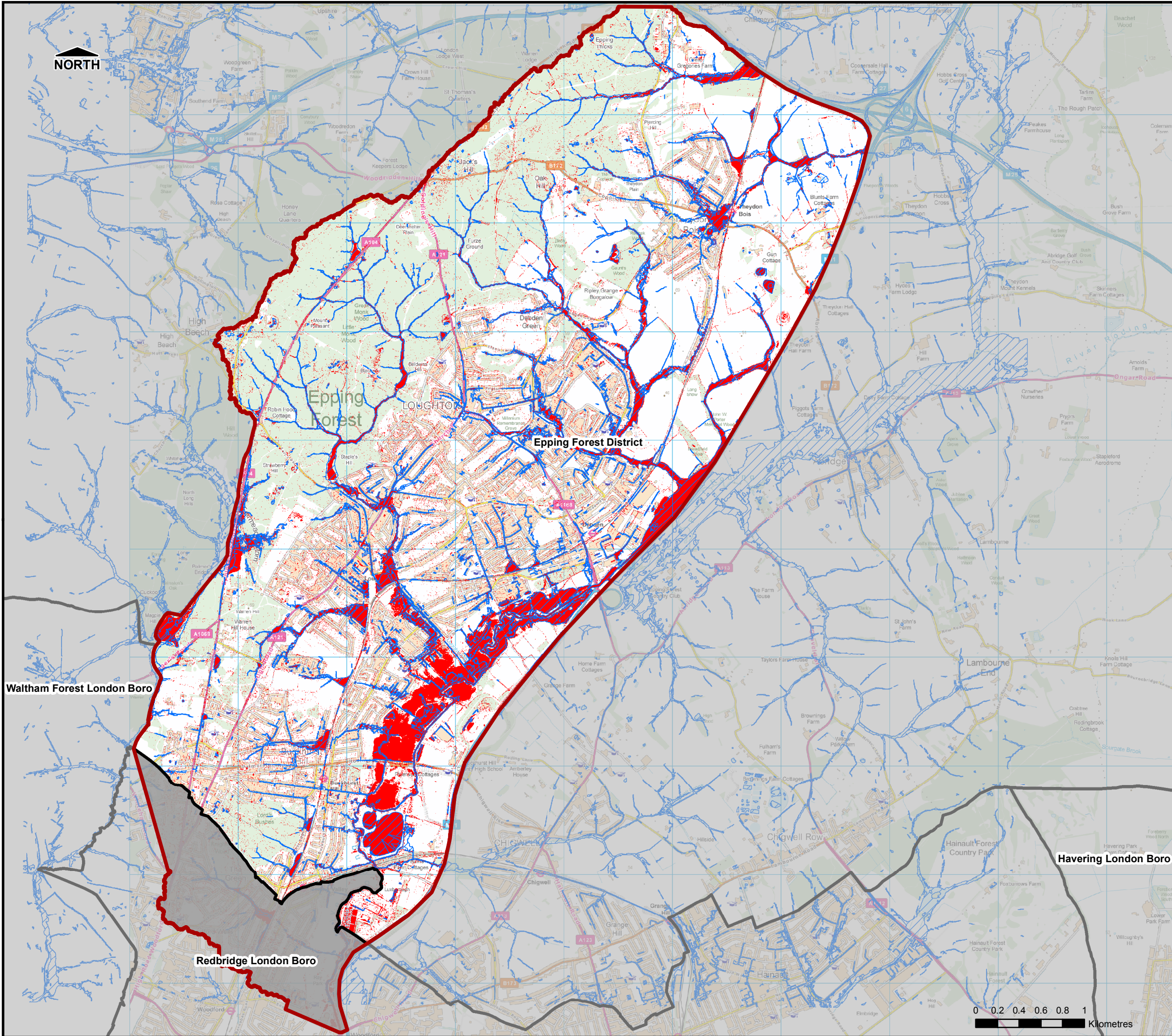
**Surface Water
Flood Hazard
1 in 200yr, 3hr duration
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FIGURE 9.12



THIS DRAWING MAY BE USED ONLY FOR THE PURPOSE INTENDED

Legend

- Study Area
- Administrative Boundary
- EA UFMfSW 100yr
- Modelled Extents 1 in 100yr**
 - 0 - 0.1m
 - >0.1m

Notes



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Scale at A3	Date	Drawn by	Approved by
1:34,000	Mar. 2016	G.ATHANASIA	C.DESPINS

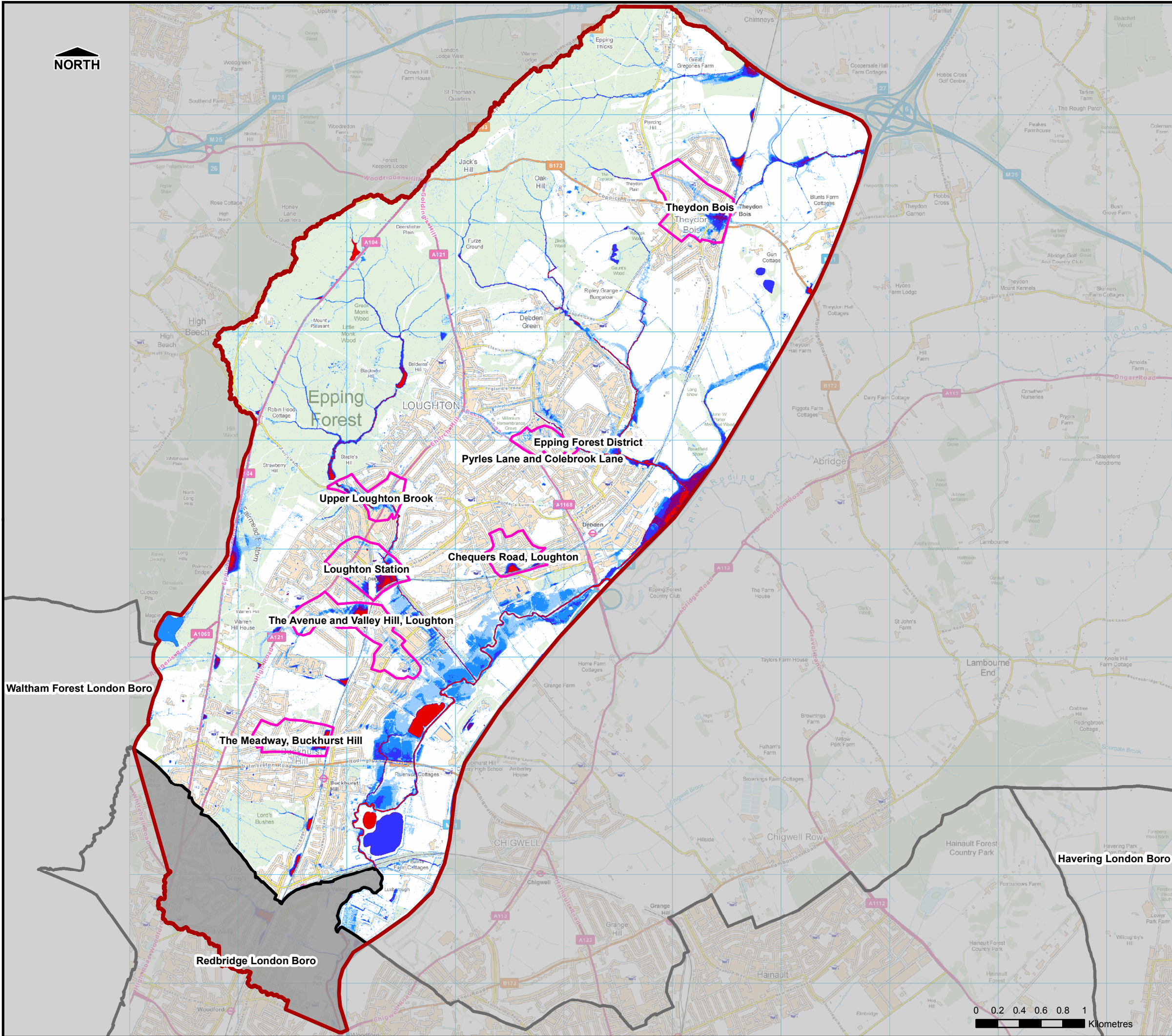
Comparison of EA UFMfSW and Modelled Extent 1 in 100yr, 3hr duration
Commercial in Confidence

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FIGURE 10



THIS DRAWING MAY BE USED ONLY FOR THE PURPOSE INTENDED

Legend

- Study Area
- Administrative Boundary
- Critical Drainage Area

Flood Depth (m)

- <0.1m
- 0.1m - 0.25m
- 0.25m - 0.5m
- 0.5m - 1m
- 1.0m - 1.5m
- >1.5m

Notes

Refer to the Modelling Methodology of the Loughton SWMP document for details of the limitations and assumptions that need to be accounted for when interpreting the modelled flood depths / hazard extents shown on this figure.

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Scale at A3	Date	Drawn by	Approved by
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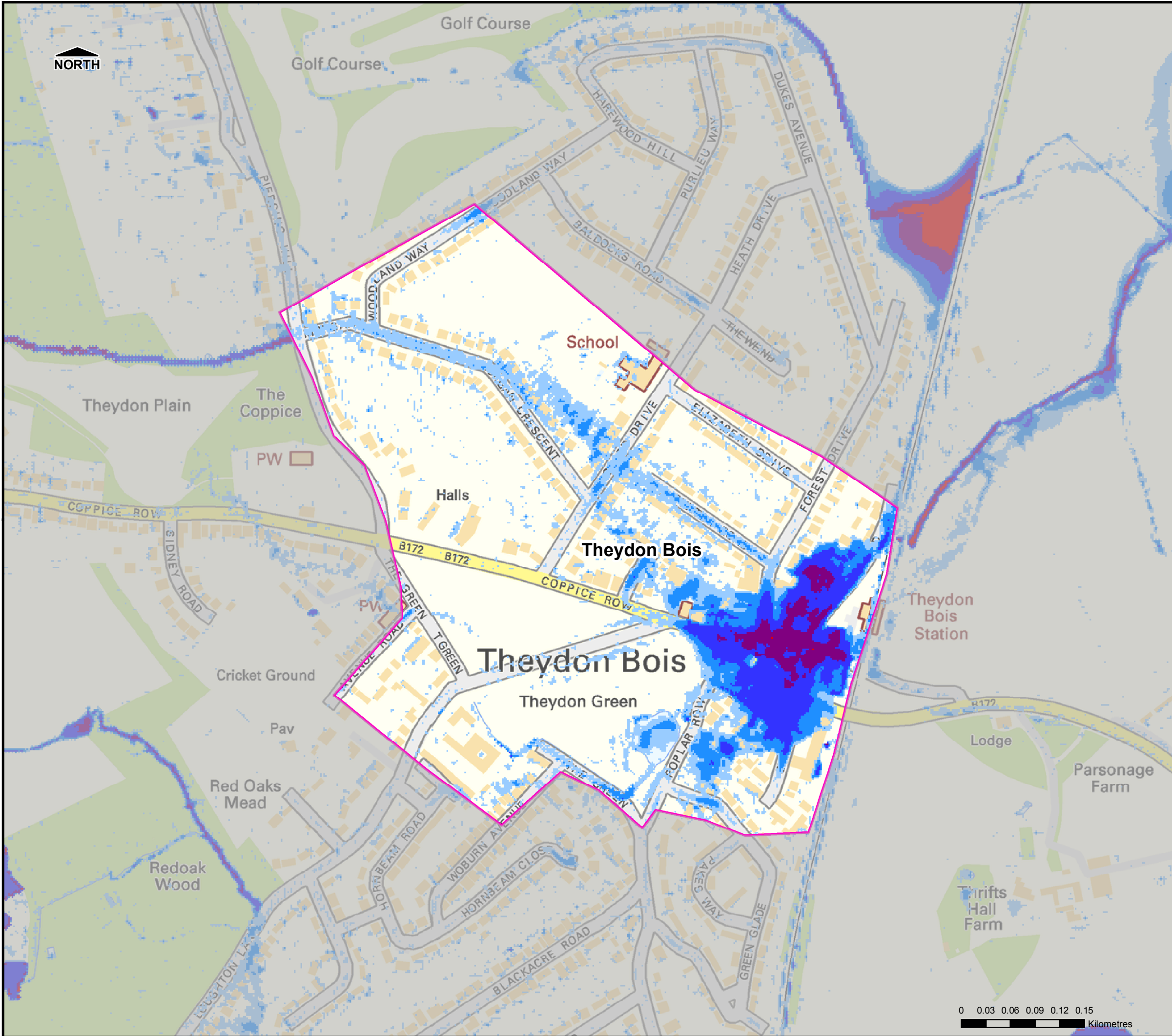
Critical Drainage Areas
Overview
1 in 100yr, 3hr duration
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FIGURE 11









THIS DRAWING MAY BE USED ONLY FOR
THE PURPOSE INTENDED

Legend

-  Study Area
-  Administrative Boundary
-  Critical Drainage Area

Flood Depth (m)

-  <0.1m
-  0.1m - 0.25m
-  0.25m - 0.5m
-  0.5m - 1m
-  1.0m - 1.5m
-  >1.5m

Notes

Refer to the Modelling Methodology of the Loughton SWMP document for details of the limitations and assumptions that need to be accounted for when interpreting the modelled flood depths / hazard extents shown on this figure.

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Critical Drainage Area
01.Theydon Bois
1 in 100yr, 3hr duration

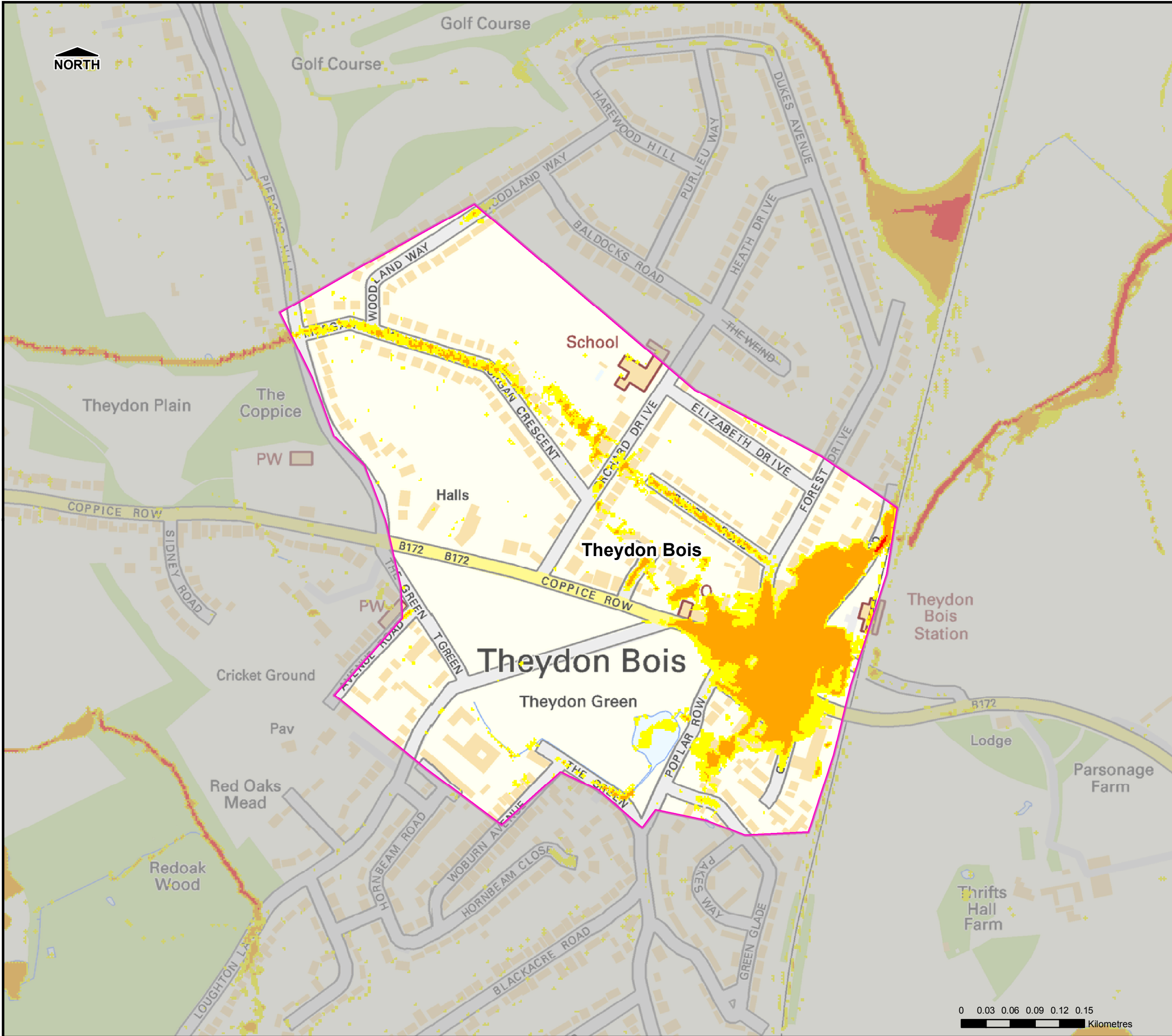
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FIGURE 11.1



THIS DRAWING MAY BE USED ONLY FOR THE PURPOSE INTENDED

Legend

- Study Area
- Administrative Boundary
- Critical Drainage Area

Flood Hazard

- Caution (Very Low Hazard)
- Moderate (Danger for Some)
- Significant (Danger for Most)
- Extreme (Danger for All)

Notes

Refer to the Modelling Methodology of the Loughton SWMP document for details of the limitations and assumptions that need to be accounted for when interpreting the modelled flood depths / hazard extents shown on this figure.

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Critical Drainage Area
01.Theydon Bois
1 in 100yr, 3hr duration

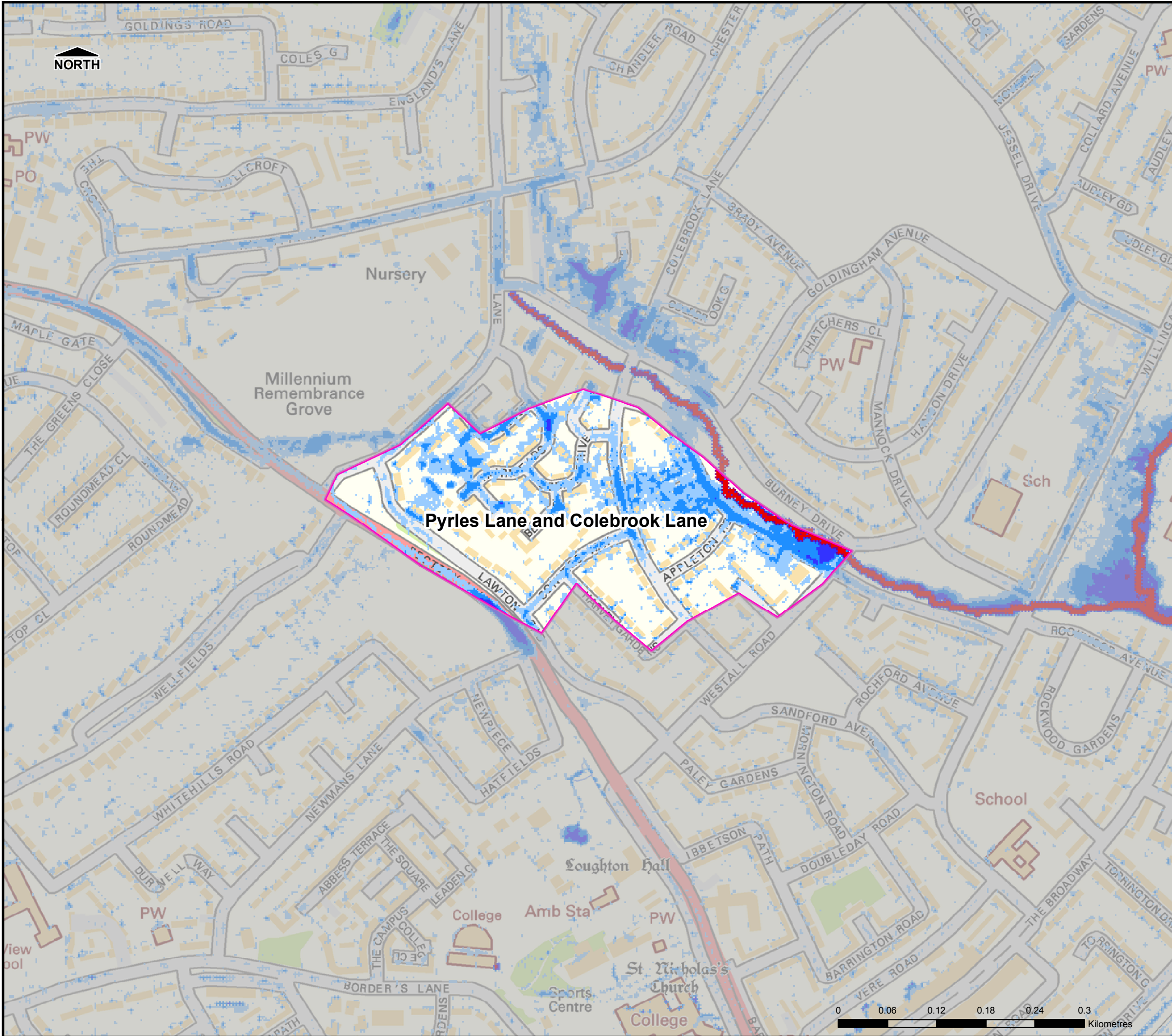
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FIGURE 11.2



THIS DRAWING MAY BE USED ONLY FOR THE PURPOSE INTENDED

Legend

- Study Area
- Administrative Boundary
- Critical Drainage Area

Flood Depth (m)

- <0.1m
- 0.1m - 0.25m
- 0.25m - 0.5m
- 0.5m - 1m
- 1.0m - 1.5m
- >1.5m

Notes

Refer to the Modelling Methodology of the Loughton SWMP document for details of the limitations and assumptions that need to be accounted for when interpreting the modelled flood depths / hazard extents shown on this figure.

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Critical Drainage Area
02.Pyrles Lane and Colebrook Lane
1 in 100yr, 3hr duration

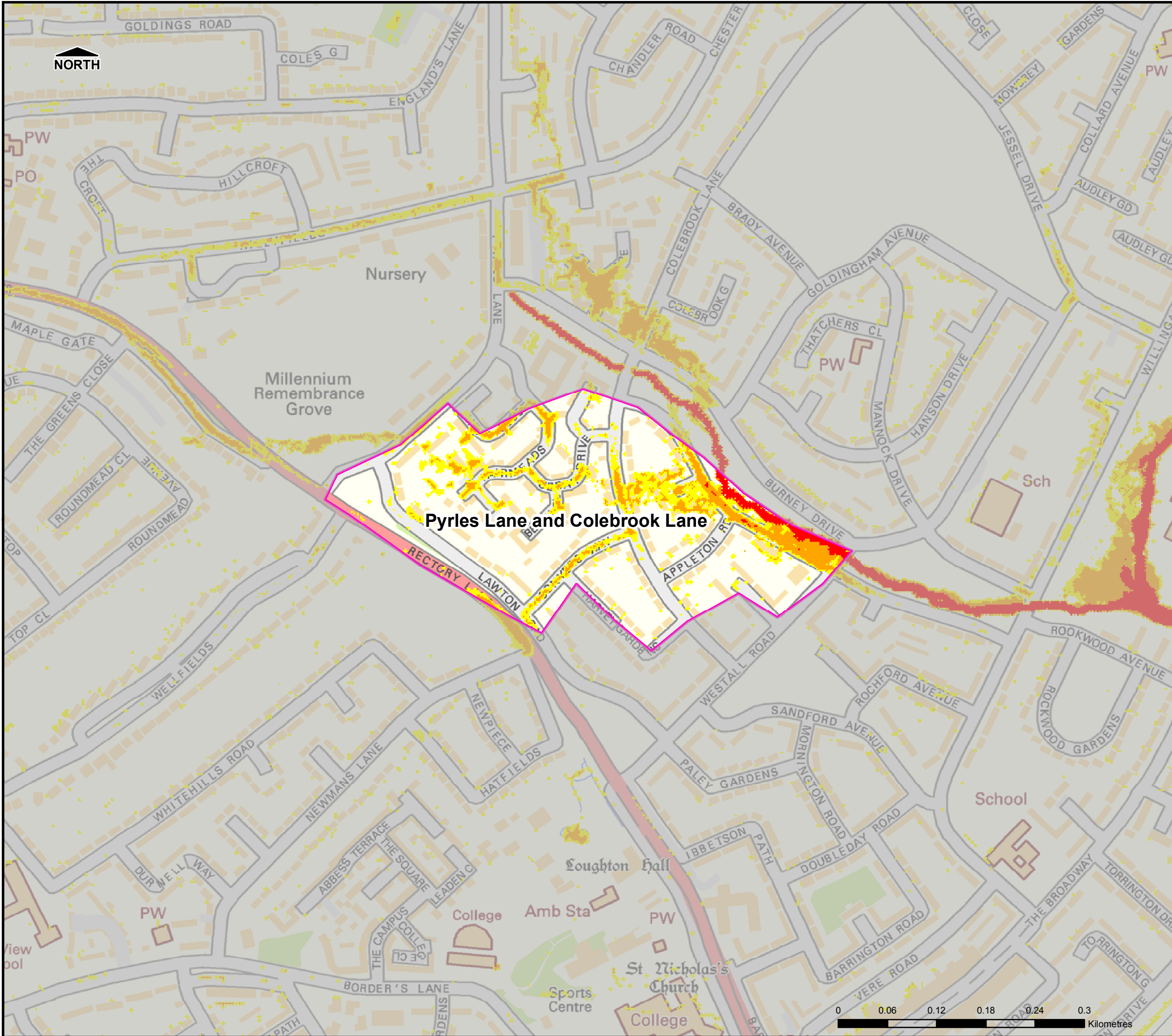
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FIGURE 11.3



THIS DRAWING MAY BE USED ONLY FOR THE PURPOSE INTENDED

Legend

- Study Area
- Administrative Boundary
- Critical Drainage Area

Flood Hazard

- Caution (Very Low Hazard)
- Moderate (Danger for Some)
- Significant (Danger for Most)
- Extreme (Danger for All)

Notes

Refer to the Modelling Methodology of the Loughton SWMP document for details of the limitations and assumptions that need to be accounted for when interpreting the modelled flood depths / hazard extents shown on this figure.

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Critical Drainage Area
02.Pyrles Lane and Colebrook Lane
1 in 100yr, 3hr duration

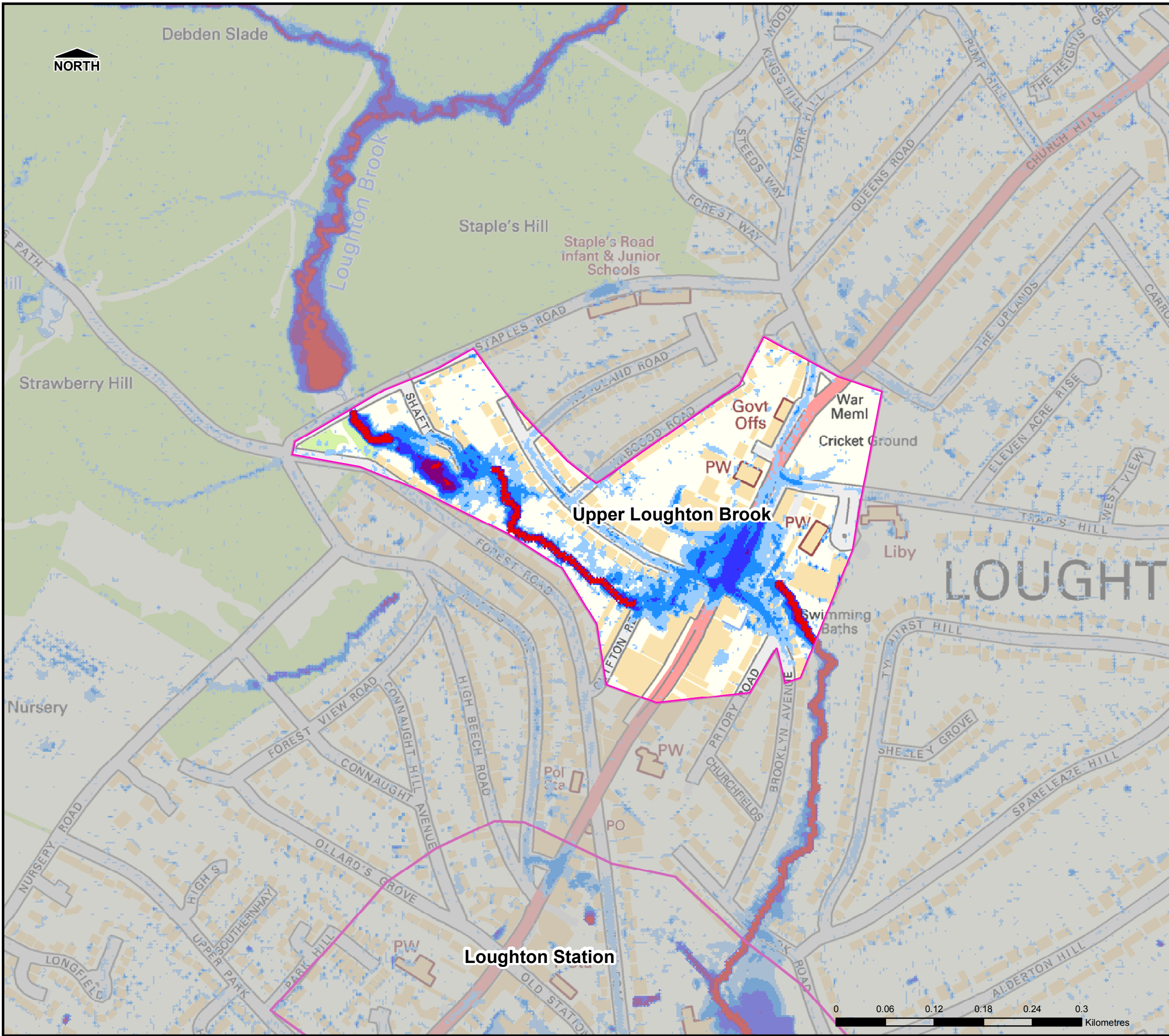
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FIGURE 11.4









THIS DRAWING MAY BE USED ONLY FOR
THE PURPOSE INTENDED

Legend

-  Study Area
-  Administrative Boundary
-  Critical Drainage Area

Flood Depth (m)

-  <0.1m
-  0.1m - 0.25m
-  0.25m - 0.5m
-  0.5m - 1m
-  1.0m - 1.5m
-  >1.5m

Notes

Refer to the Modelling Methodology of the Loughton SWMP document for details of the limitations and assumptions that need to be accounted for when interpreting the modelled flood depths / hazard extents shown on this figure.

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Critical Drainage Area
03.Upper Loughton Brook
1 in 100yr, 3hr duration

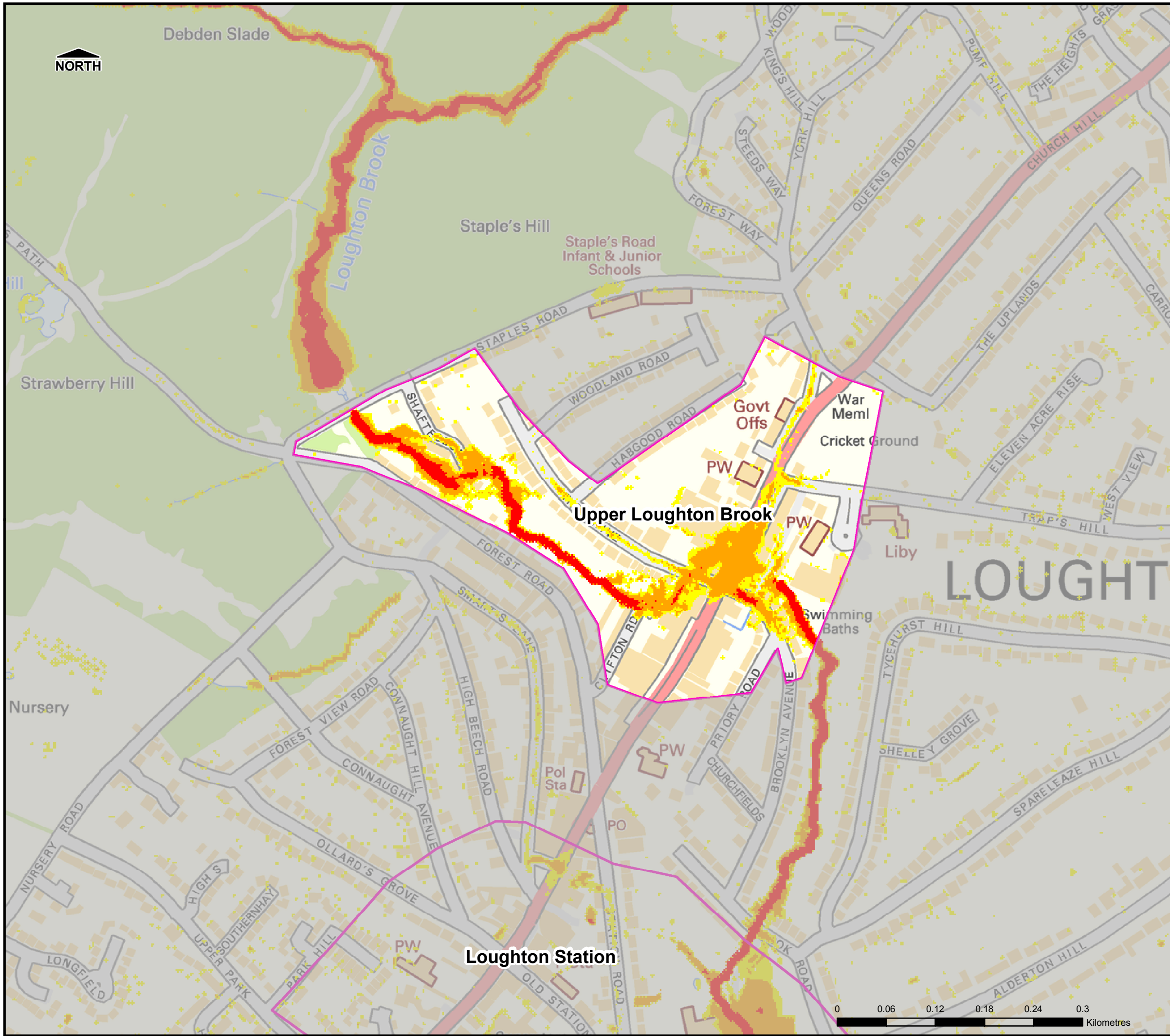
Commercial in Confidence

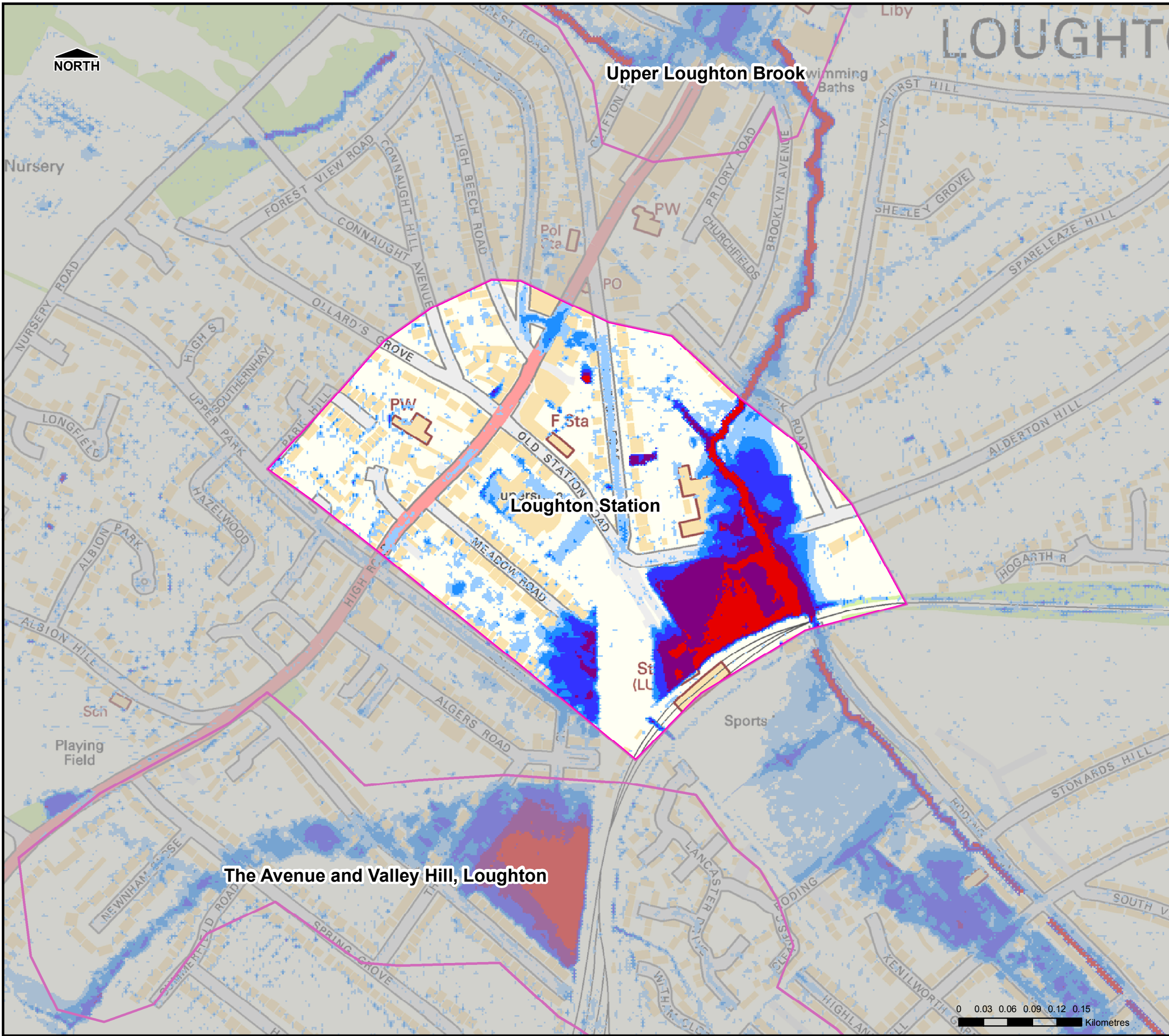
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
FIGURE 11.5











THIS DRAWING MAY BE USED ONLY FOR
THE PURPOSE INTENDED

Legend

-  Study Area
-  Administrative Boundary
-  Critical Drainage Area

Flood Depth (m)

-  <0.1m
-  0.1m - 0.25m
-  0.25m - 0.5m
-  0.5m - 1m
-  1.0m - 1.5m
-  >1.5m

Notes

Refer to the Modelling Methodology of the Loughton SWMP document for details of the limitations and assumptions that need to be accounted for when interpreting the modelled flood depths / hazard extents shown on this figure.

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**Critical Drainage Area
04.Loughton Station
1 in 100yr, 3hr duration**

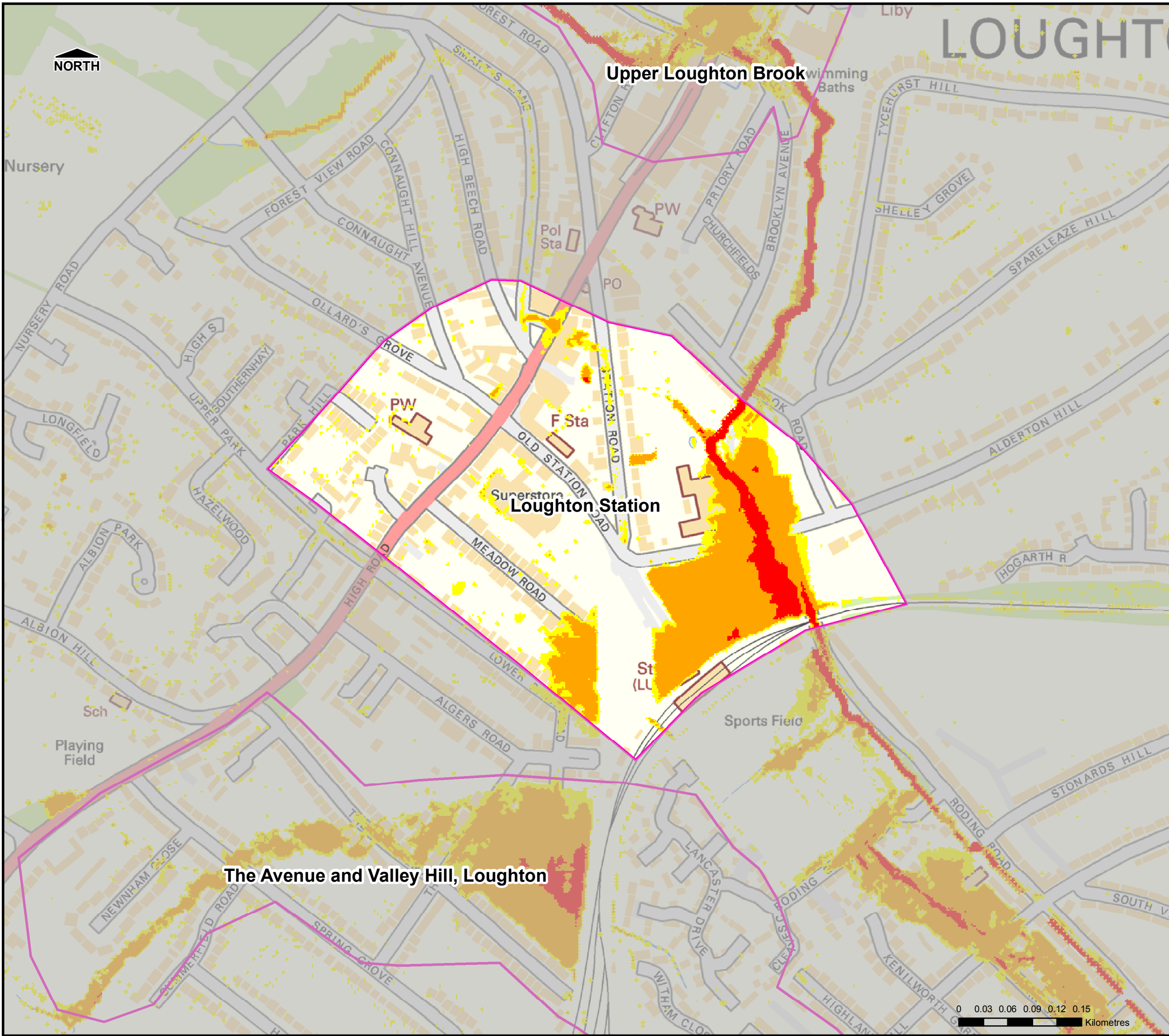
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FIGURE 11.7



THIS DRAWING MAY BE USED ONLY FOR THE PURPOSE INTENDED

Legend

- Study Area
- Administrative Boundary
- Critical Drainage Area

Flood Hazard

- Caution (Very Low Hazard)
- Moderate (Danger for Some)
- Significant (Danger for Most)
- Extreme (Danger for All)

Notes

Refer to the Modelling Methodology of the Loughton SWMP document for details of the limitations and assumptions that need to be accounted for when interpreting the modelled flood depths / hazard extents shown on this figure.

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Critical Drainage Area
04.Loughton Station
1 in 100yr, 3hr duration

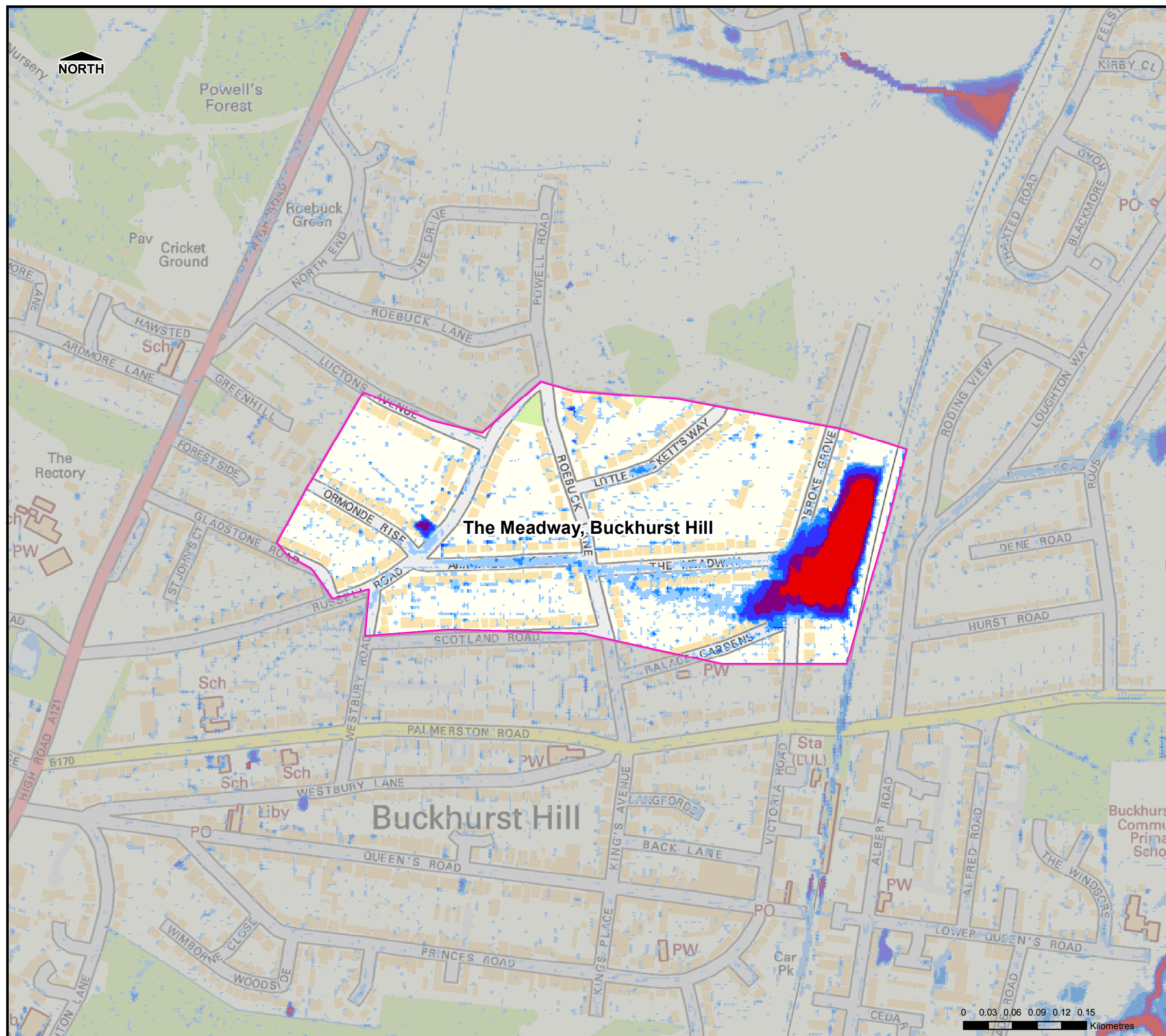
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FIGURE 11.8









THIS DRAWING MAY BE USED ONLY FOR
THE PURPOSE INTENDED

Legend

-  Study Area
 Administrative Boundary
 Critical Drainage Area

Flood Depth (m)

-
- | | |
|---|--------------|
|  | <0.1m |
|  | 0.1m - 0.25m |
|  | 0.25m - 0.5m |
|  | 0.5m - 1m |
|  | 1.0m - 1.5m |
|  | >1.5m |

Notes

Refer to the Modelling Methodology of the Loughton SWMP document for details of the limitations and assumptions that need to be accounted for when interpreting the modelled flood depths / hazard extents shown on this figure.

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Scale at A3 1:4,500	Date Mar. 2016	Drawn by G.ATHANASIA	Approved by C.DESPINS
-------------------------------	--------------------------	--------------------------------	---------------------------------

Critical Drainage Area
05.The Meadway, Buckhurst Hill
1 in 100yr, 3hr duration

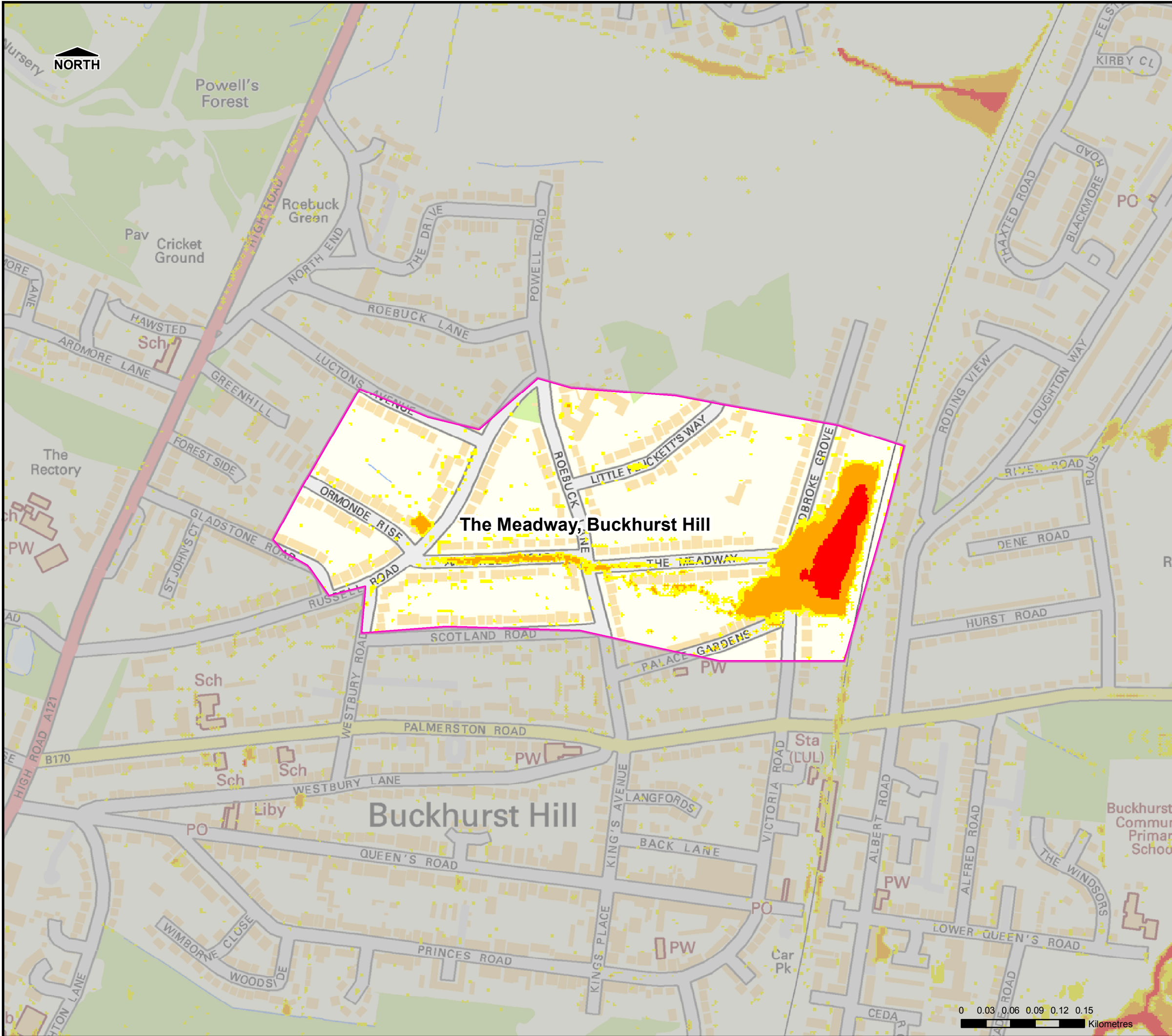
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FIGURE 11.9



THIS DRAWING MAY BE USED ONLY FOR THE PURPOSE INTENDED

Legend

- Study Area
- Administrative Boundary
- Critical Drainage Area

Flood Hazard

- Caution (Very Low Hazard)
- Moderate (Danger for Some)
- Significant (Danger for Most)
- Extreme (Danger for All)

Notes

Refer to the Modelling Methodology of the Loughton SWMP document for details of the limitations and assumptions that need to be accounted for when interpreting the modelled flood depths / hazard extents shown on this figure.

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Critical Drainage Area
05.The Meadway, Buckhurst Hill
1 in 100yr, 3hr duration

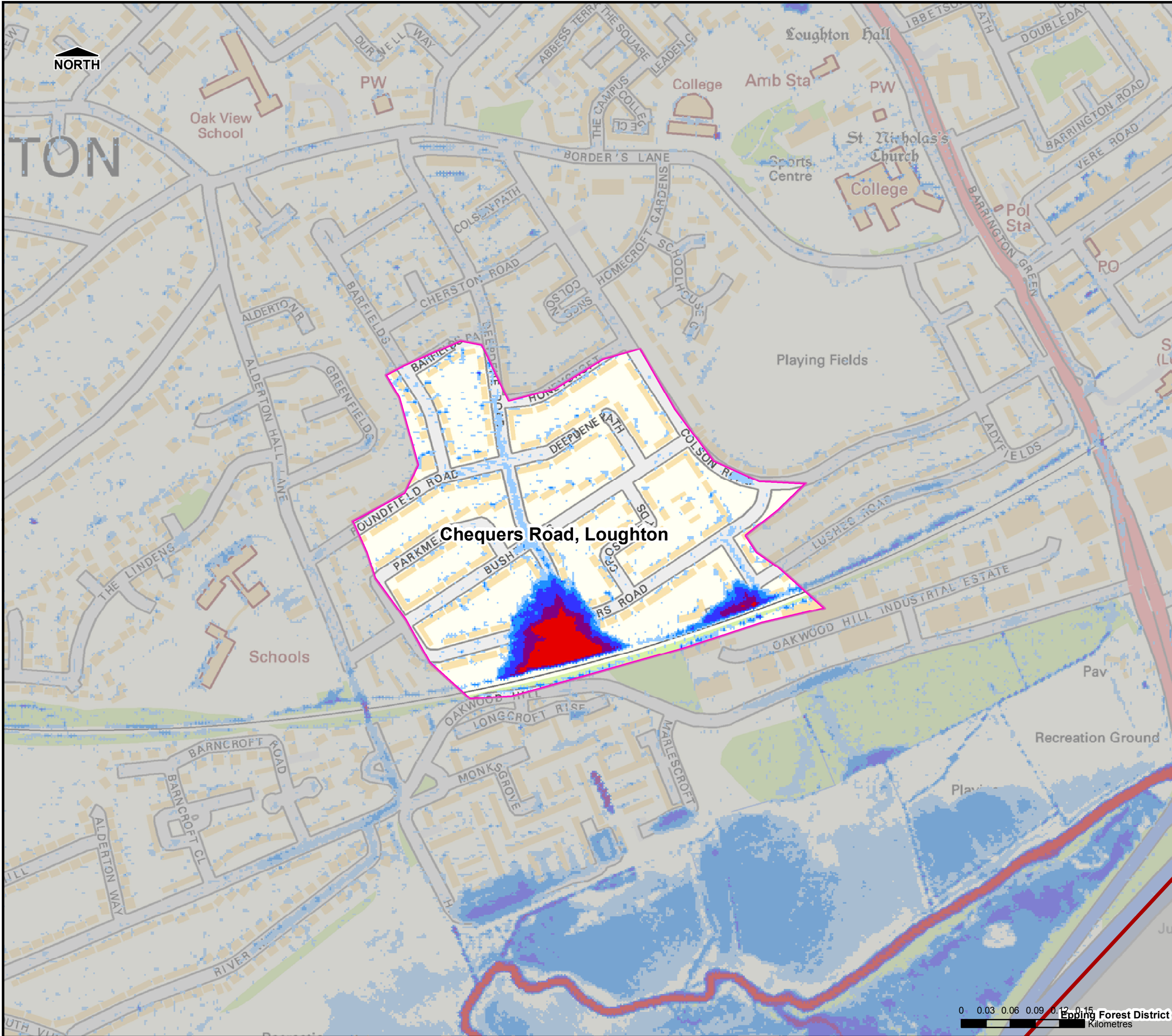
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FIGURE 11.10



THIS DRAWING MAY BE USED ONLY FOR THE PURPOSE INTENDED

Legend

- Study Area
- Administrative Boundary
- Critical Drainage Area

Flood Depth (m)

- <0.1m
- 0.1m - 0.25m
- 0.25m - 0.5m
- 0.5m - 1m
- 1.0m - 1.5m
- >1.5m

Notes

Refer to the Modelling Methodology of the Loughton SWMP document for details of the limitations and assumptions that need to be accounted for when interpreting the modelled flood depths / hazard extents shown on this figure.

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Critical Drainage Area
06.Chequers Road, Loughton
1 in 100yr, 3hr duration

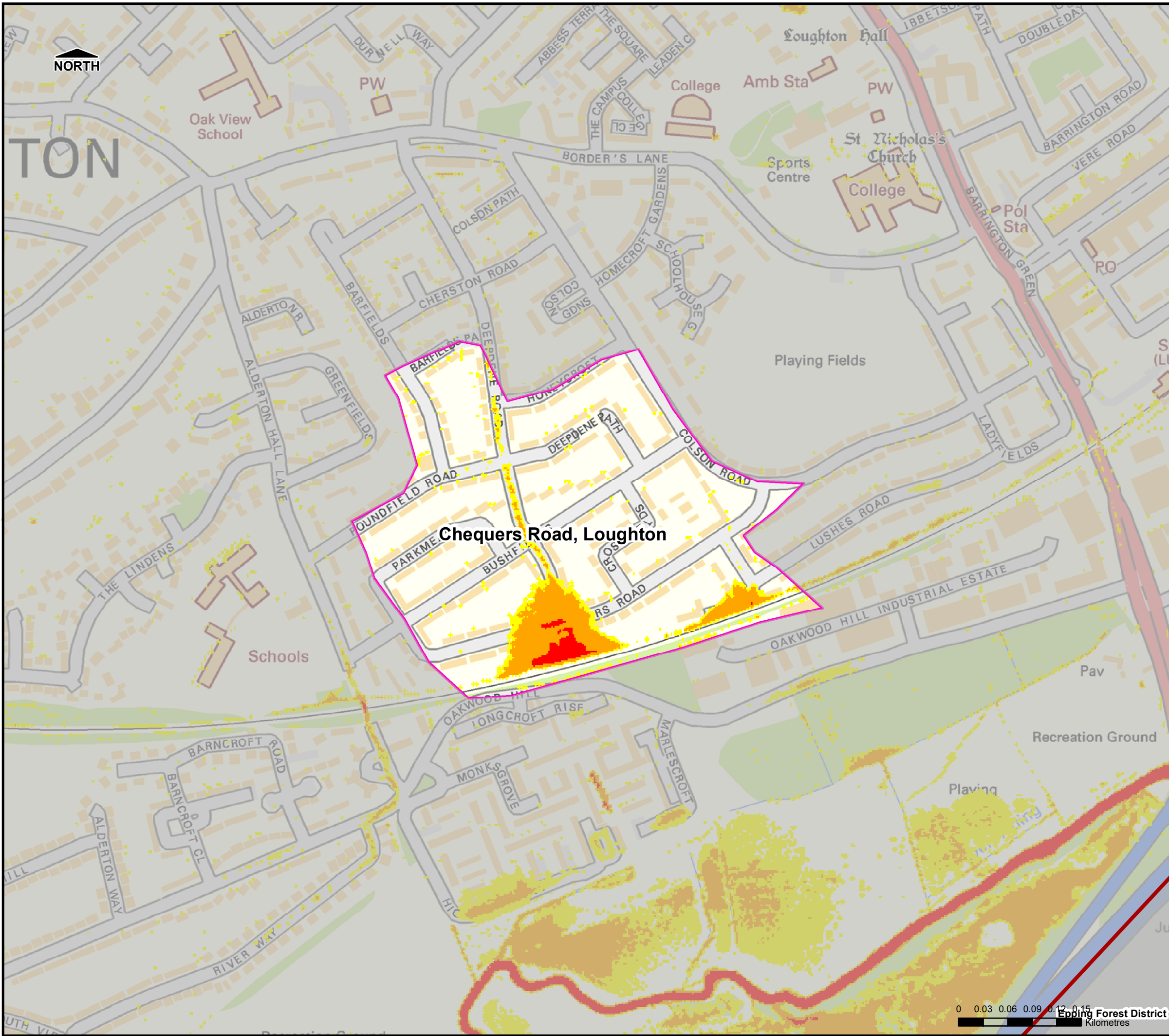
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FIGURE 11.11







THIS DRAWING MAY BE USED ONLY FOR THE PURPOSE INTENDED

Legend

-  Study Area
-  Administrative Boundary
-  Critical Drainage Area

Flood Hazard

-  Caution (Very Low Hazard)
-  Moderate (Danger for Some)
-  Significant (Danger for Most)
-  Extreme (Danger for All)

Notes

Refer to the Modelling Methodology of the Loughton SWMP document for details of the limitations and assumptions that need to be accounted for when interpreting the modelled flood depths / hazard extents shown on this figure.

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Critical Drainage Area
06.Chequers Road, Loughton
1 in 100yr, 3hr duration

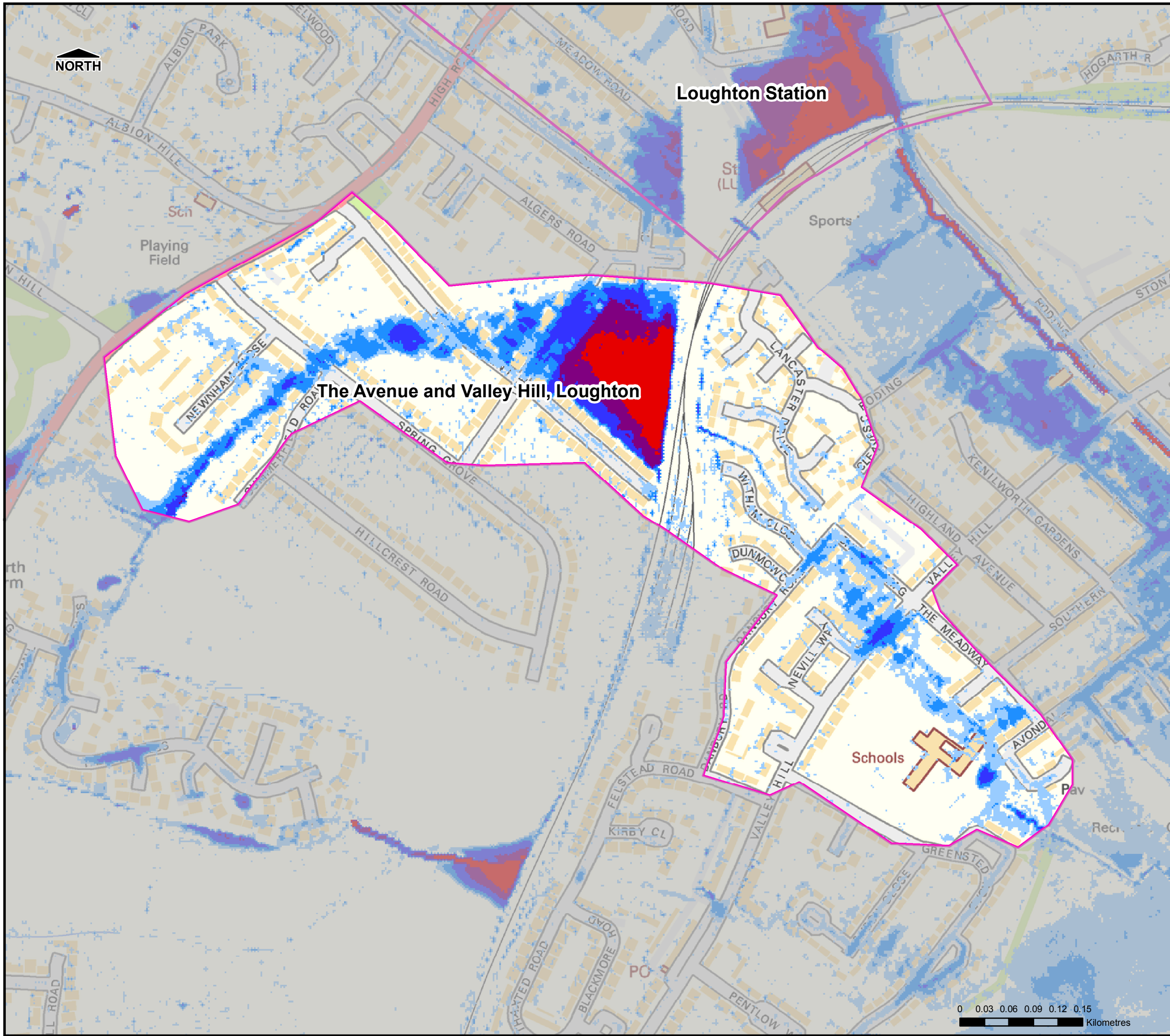
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FIGURE 11.12









THIS DRAWING MAY BE USED ONLY FOR THE PURPOSE INTENDED

Legend

-  Study Area
-  Administrative Boundary
-  Critical Drainage Area

Flood Depth (m)

-  <0.1m
-  0.1m - 0.25m
-  0.25m - 0.5m
-  0.5m - 1m
-  1.0m - 1.5m
-  >1.5m

Notes

Refer to the Modelling Methodology of the Loughton SWMP document for details of the limitations and assumptions that need to be accounted for when interpreting the modelled flood depths / hazard extents shown on this figure.

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Critical Drainage Area
07.The Avenue and Valley Hill, Loughton
1 in 100yr, 3hr duration

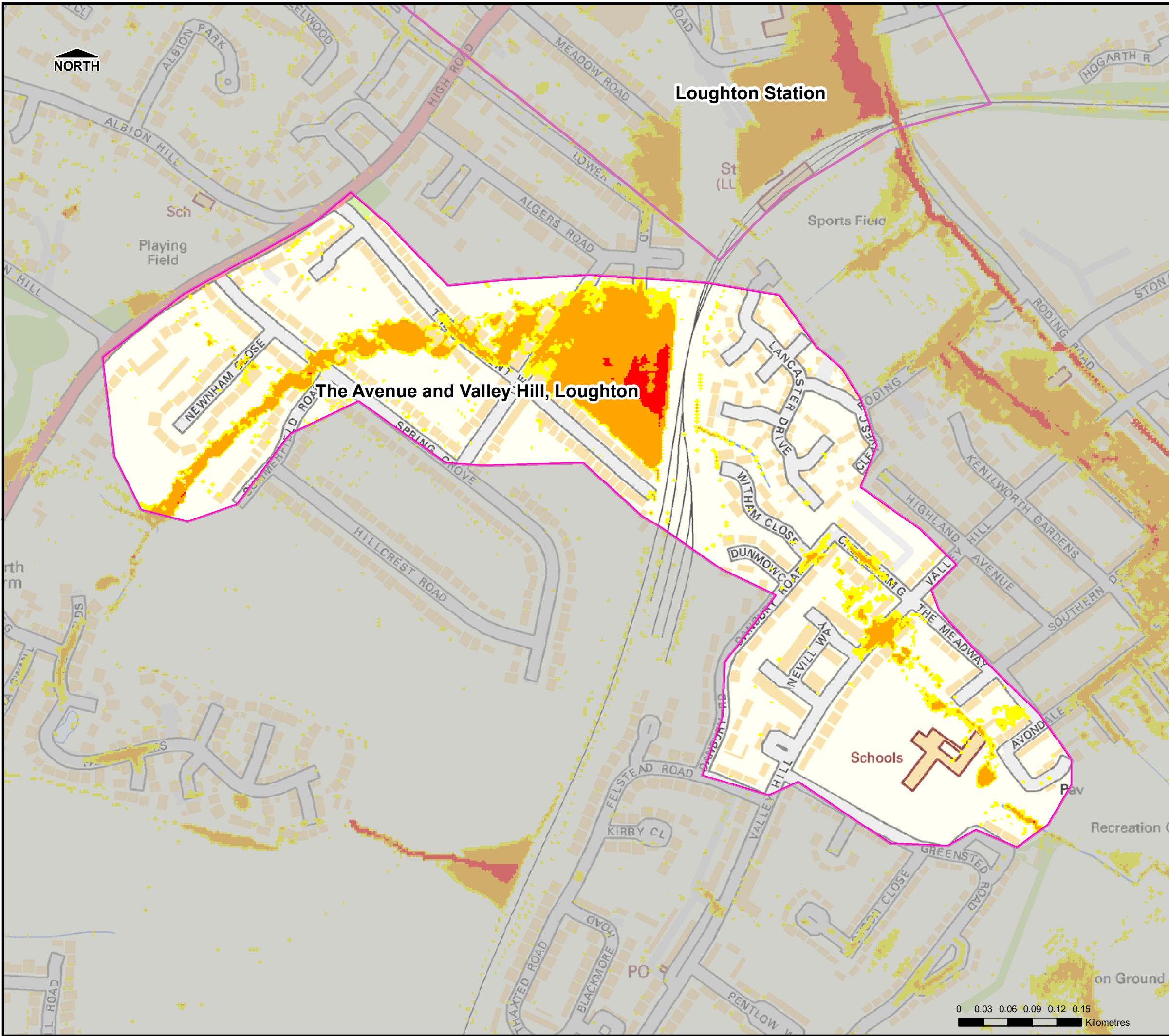
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FIGURE 11.13



THIS DRAWING MAY BE USED ONLY FOR THE PURPOSE INTENDED

Legend

- Study Area
- Administrative Boundary
- Critical Drainage Area

Flood Hazard

- Caution (Very Low Hazard)
- Moderate (Danger for Some)
- Significant (Danger for Most)
- Extreme (Danger for All)

Notes

Refer to the Modelling Methodology of the Loughton SWMP document for details of the limitations and assumptions that need to be accounted for when interpreting the modelled flood depths / hazard extents shown on this figure.



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Critical Drainage Area
07.The Avenue and Valley Hill, Loughton
1 in 100yr, 3hr duration

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FIGURE 11.14