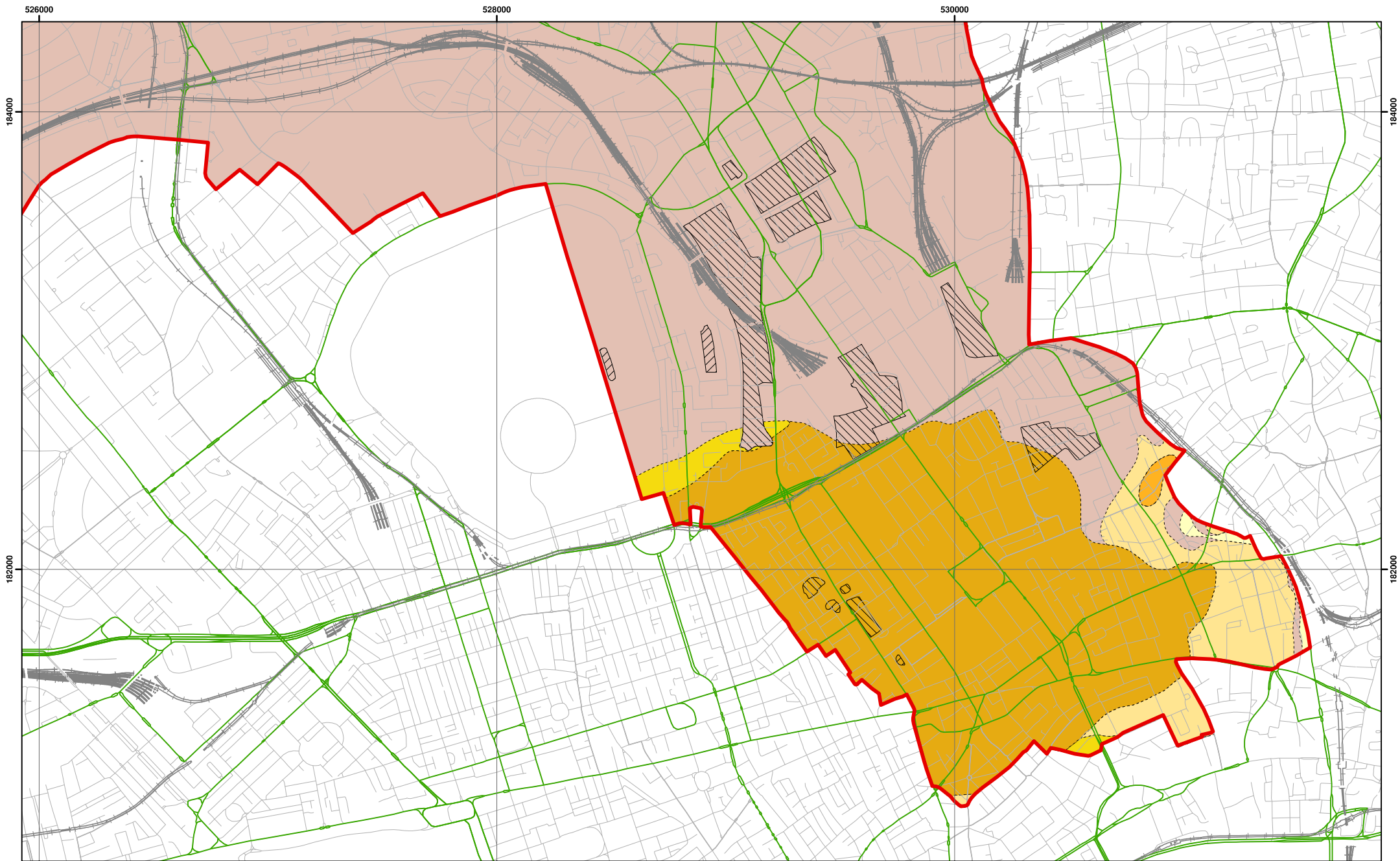




Appendix 7

British Geological Survey Maps

Topography Views & Strategic FRA references



526000  
Data source: BGS Mapping - Scale 1:10,000



Scale at A3: 1:15,000

Coordinate System:  
British National Grid  
GCS\_OSGB\_1936

528000  
**Legend**



London Borough of Camden

Railway Lines

A Roads

MADE GROUND

WORKED GROUND

**BGS 1:10K Artificial Ground**

**BGS 1:10K Drift Geology**

ALLUVIUM

HACKNEY GRAVEL FORMATION

LANGLEY SILT FORMATION

LYNCH HILL GRAVEL FORMATION

STANMORE GRAVEL FORMATION

**BGS 1:10K Solid Geology**

BAGSHOT FORMATION

CLAYGATE MEMBER

LAMBETH GROUP

LONDON CLAY FORMATION

## Camden Geological, Hydrogeological and Hydrological Study

### South Camden Geological Map

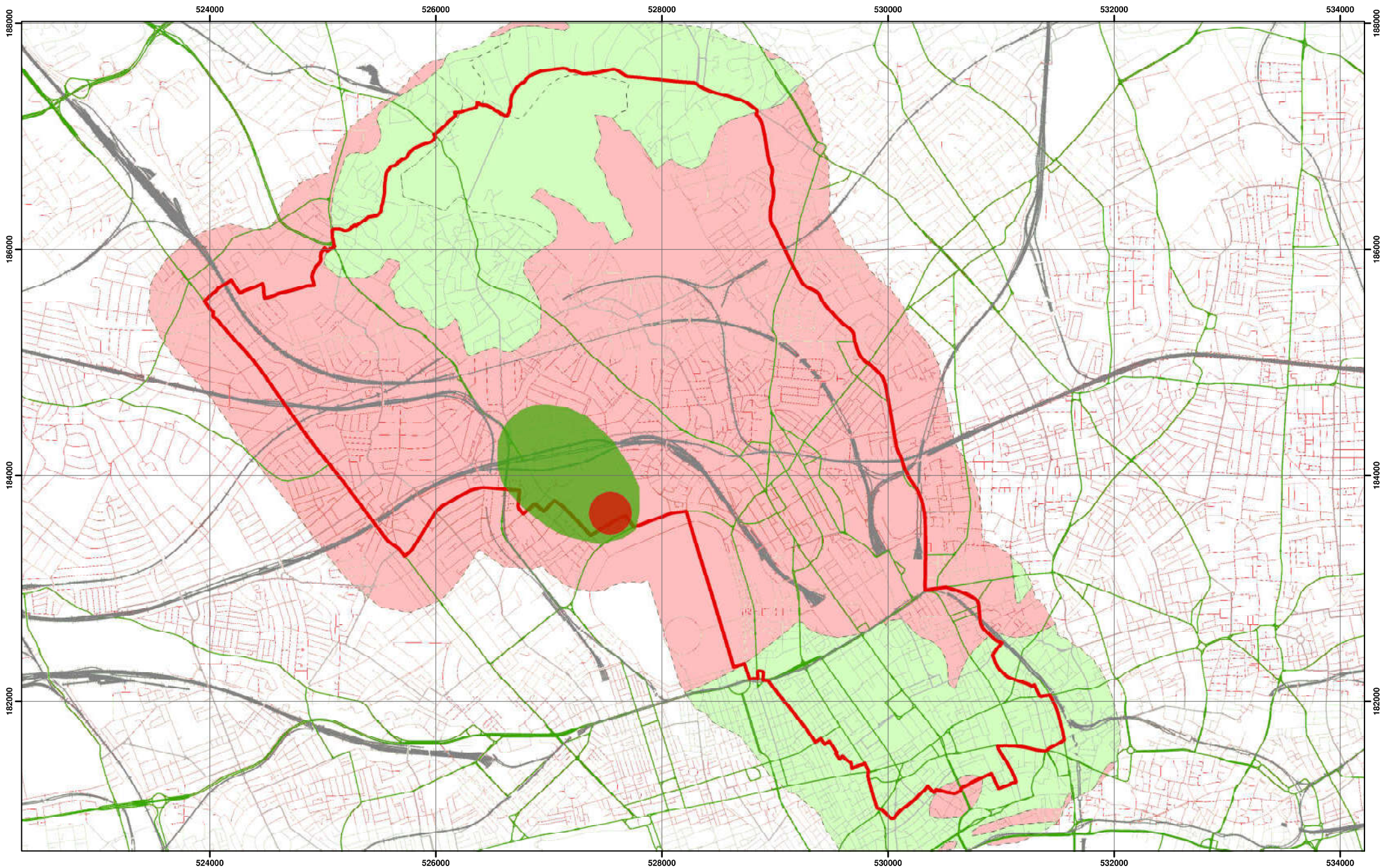
213923

FIGURE 4

NB. Geological boundaries are largely indicative based on available geological mapping data







Environment Agency Aquifer Designation based on BGS Mapping



Scale at A3: 1:30,000

Coordinate System:  
British National Grid  
GCS\_OSGB\_1936



#### Legend

- |   |   |  |
|---|---|--|
| <span style="border: 2px solid red; padding: 2px;"> </span> Borough of Camden | <b>Aquifer Designation</b>  | <b>Source Protection Zone</b>  |
| <span style="color: grey;">—</span> Railway Lines                             | <span style="background-color: #d9ead3; border: 1px solid black; display: inline-block; width: 15px; height: 10px;"></span> Secondary A Aquifer | <span style="background-color: #4f81bd; border: 1px solid black; display: inline-block; width: 15px; height: 10px;"></span> Outer Source Protection Zone |
| <span style="color: green;">—</span> A Roads                                  | <span style="background-color: #f4cccc; border: 1px solid black; display: inline-block; width: 15px; height: 10px;"></span> Unproductive Strata | <span style="background-color: #e31a1c; border: 1px solid black; display: inline-block; width: 15px; height: 10px;"></span> Inner Source Protection Zone |

NB, Aquifer boundaries are indicative based on available geological mapping data

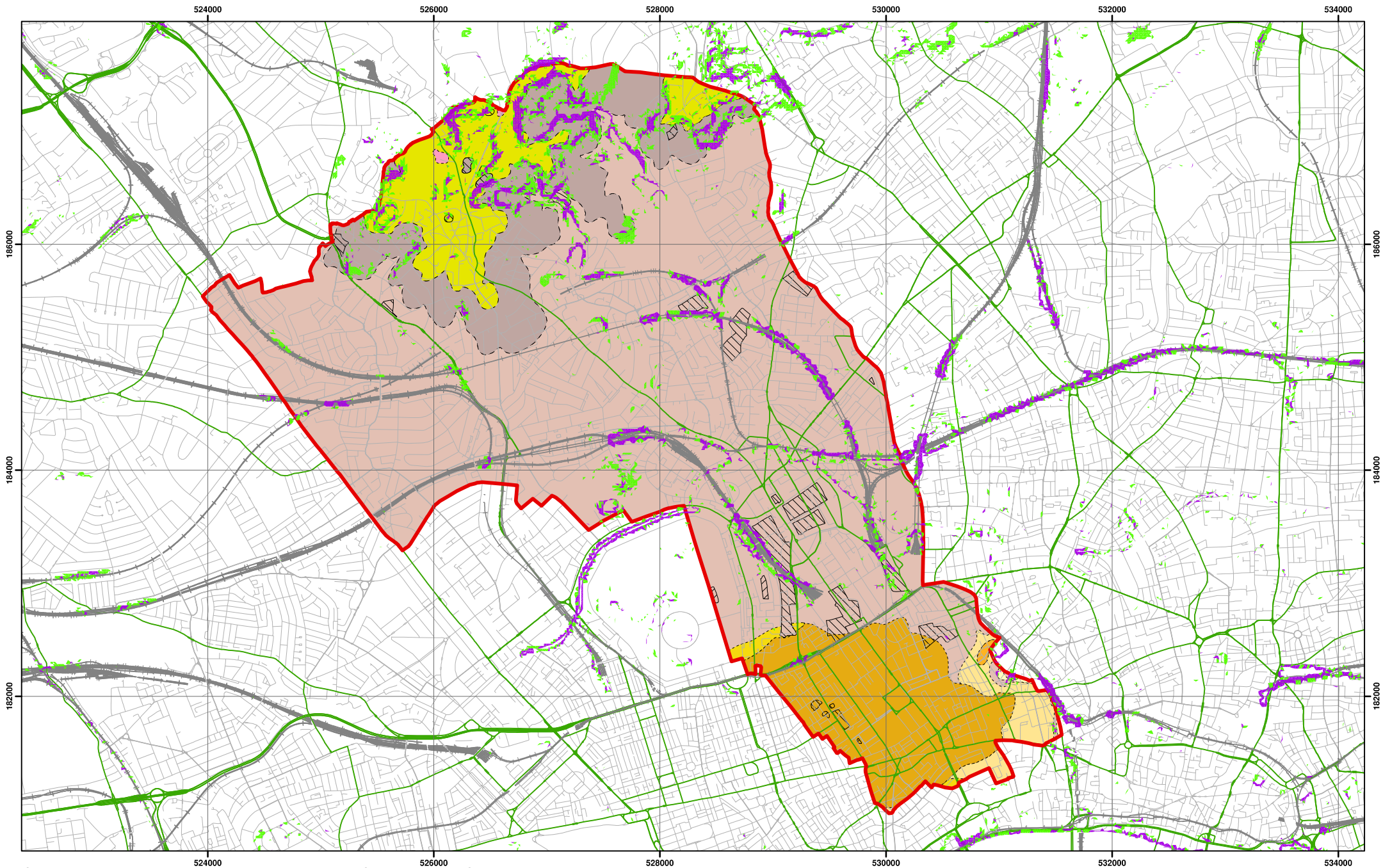
### Camden Geological, Hydrogeological and Hydrological Study

#### Camden Aquifer Designation Map

213923

FIGURE 5





Slope Angles calculated from Digital Terrain Model Provided By Camden Borough Council



Scale at A3: 1:30,000

1:10,000 BGS Mapping  
Coordinate System:  
British National Grid  
GCS\_OSGB\_1936

#### Legend

<b>Slope</b>	<b>London Borough of Camden</b>	<b>BGS 1:10K Artificial Ground</b>	<b>BGS 1:10K Drift Geology</b>	<b>BGS 1:10K Solid Geology</b>
0° - 7°	Railway Lines	MADE GROUND	ALLUVIUM	BAGSHOT FORMATION
7° - 10°	A Roads	WORKED GROUND	HACKNEY GRAVEL FORMATION	CLAYGATE MEMBER
> 10°			LYNGLEY SILT FORMATION	LAMBETH GROUP
			LYNCH HILL GRAVEL FORMATION	LONDON CLAY FORMATION
			STANMORE GRAVEL FORMATION	

## Camden Geological, Hydrogeological and Hydrological Study

### Slope Angle Map

213923

FIGURE 6

NB. Geological boundaries are largely indicative based on available geological mapping data



## Areas of greatest potential for slope instability

### The assessment of the potential for slope instability

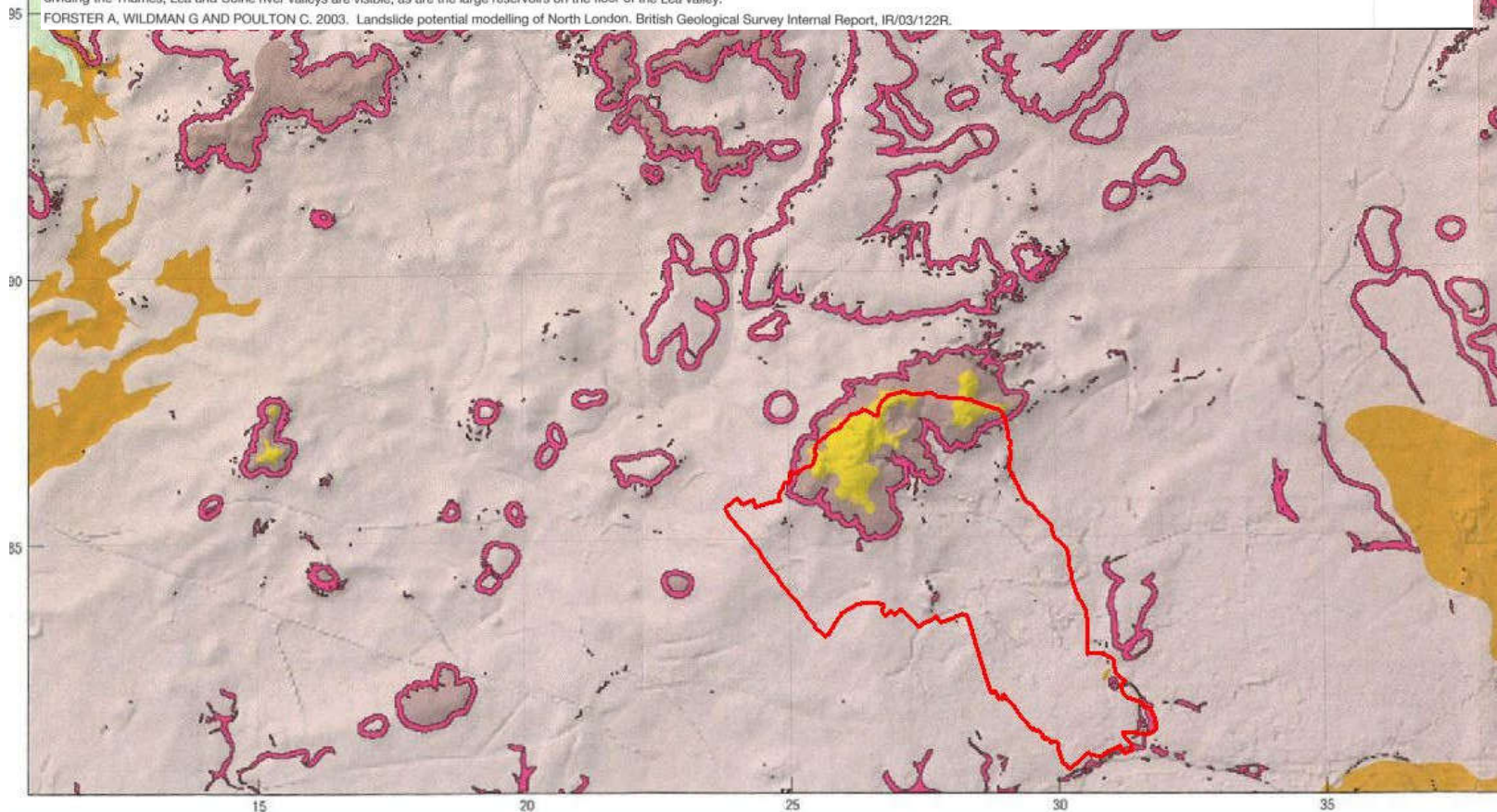
Due to a long history of intensive landuse and urban development it has only been possible to recognise and map, with confidence, a few areas of past landslide activity. However, beyond the north London district, areas of similar bedrock geology and topography contain significant areas of mapped landslides. Therefore, a slope instability assessment has been made to act as a guide to where areas of significant landslide potential are present, but obscured, and where further information regarding their stability are needed before development or major changes in landuse are made (Forster et al. 2003).

The assessment used a deterministic approach that looks at the presence at a site of landslide causative factors, such as slope angle, lithology and groundwater conditions that increase the susceptibility of a site to landslide activity. The causative factors were weighted according to their relative importance in promoting landslides and combined in a Geographical Information System to produce a computer-generated map of the relative susceptibility to landslide activity across the area. It does not necessarily mean that landslides have happened in the past or will do so in the future but if conditions change through natural or artificial means and a causative factor increases, then slope instability may be triggered.

This assessment gave a measure of the potential landslide activity divided into five classes ranging from zero to very high. For clarity the two highest classes, HIGH and VERY HIGH have been combined on this map to give a single rating to indicate the presence of a significant potential. More detailed information about particular locations may be obtained through the BGS Enquiry Service [enquiries@bgs.ac.uk](mailto:enquiries@bgs.ac.uk). Telephone 0115 936 3143.

The shaded relief image is derived from NEXTMap™ Digital Elevation Model (DEM) data gridded at 10 m intervals. Illumination is from the north-west and vertical exaggeration is x10. Artificial artefacts such as buildings have been removed from this dataset using smoothing algorithms. The geology of the district can be related to the topography as revealed by the image. The hill tops capped by the Claygate Member and Bagshot Formation are clearly identifiable. The watersheds dividing the Thames, Lea and Colne river valleys are visible, as are the large reservoirs on the floor of the Lea valley.

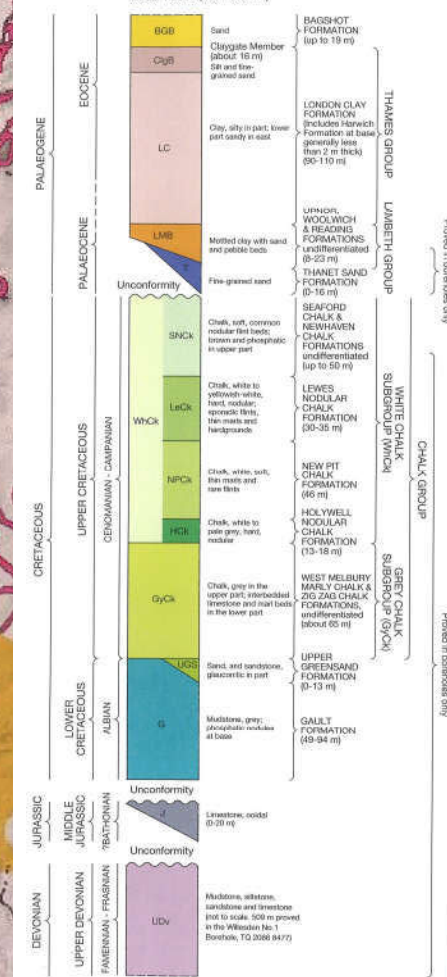
FORSTER A, WILDMAN G AND POULTON C. 2003. Landslide potential modelling of North London. British Geological Survey Internal Report, IR/03/122R.



**Areas of significant landslide potential**

### GENERALIZED VERTICAL SECTION

Scale 1:2500 (1 cm to 25 m)



Source - British Geological Society, 1:50,000 Series  
England and Wales Sheet 256 - North London


**Camden Geological, Hydrogeological  
and Hydrological Study**  
Areas of landslide potential





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ISSUE THAT IT WAS ISSUED FOR AND IS SUBJECT TO AMENDMENT

#### LEGEND

 London Borough  
Camden Boundary

#### Topography (mAOD)



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and database right 2014

Revision Details

By	Check	Check Date	Rev

Purpose of Issue

FINAL

Client

 **Camden**

Project Title

LONDON BOROUGH OF  
CAMDEN STRATEGIC FLOOD  
RISK ASSESSMENT

Drawing Title

LB Camden Topography

Drawn	Checked	Approved	MT	Date
CB	JS			03/07/2014

URS Internal Project No.	Scale at A3
47070547	1:40,000

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Drawing Number

FIGURE 1

Rev

Rev 1



