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Legend

 Administrative Boundary

Strategic Sites RBKC

-  01 Kensal Gasworks (sites north & south of railway)
-  02 Worrington Green
-  03 Land adjacent to Trellick Tower
-  04 Kensington Leisure Centre
-  05 The Former Commonwealth Institute
-  06 Warwick Road (5 sites including 100 West Cromwell Road)
-  07 Earl's Court Exhibition Centre

Notes

Royal Borough of Kensington and Chelsea



THE ROYAL BOROUGH OF KENSINGTON AND CHELSEA

Surface Water Management Plan

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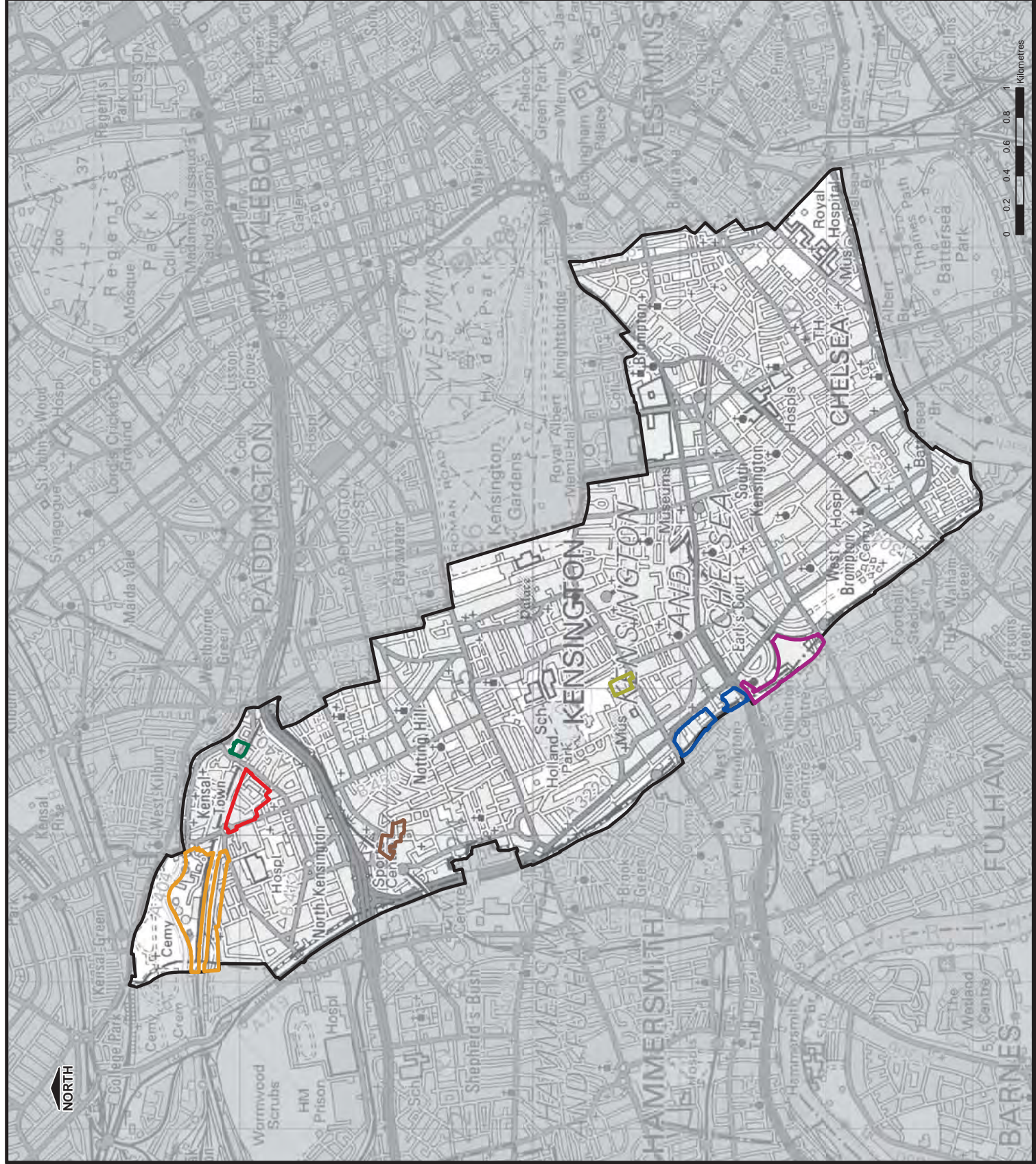
Scale at A3	Date	Drawn by	Approved by
1:25,000	Jan. 2014	G.ATHANASIA	P.HLINOVSKY

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FIGURE 12



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Legend

-  Administrative Boundary
-  Main River
-  Ordinary Watercourse
-  Culverted Watercourse
- Bedrock**
 -  London Clay Formation (LC-CLSS)
- Superficial Deposits**
 -  Alluvium (ALV-CZPS)
 -  Boyn Hill Gravel Member (BHT-XSV)
 -  Hackney Gravel Member (HAGR-XSV)
 -  Kempton Park Gravel Formation (KPGR-XSV)
 -  Langley Silt Member (LASI-XCZ)
 -  Lynch Hill Gravel Member (LHGR-XSV)
 -  Taplow Gravel Formation (TPGR-XSV)

Notes

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THE ROYAL BOROUGH OF KENSINGTON AND CHELSEA

Strategic Flood Risk Assessment

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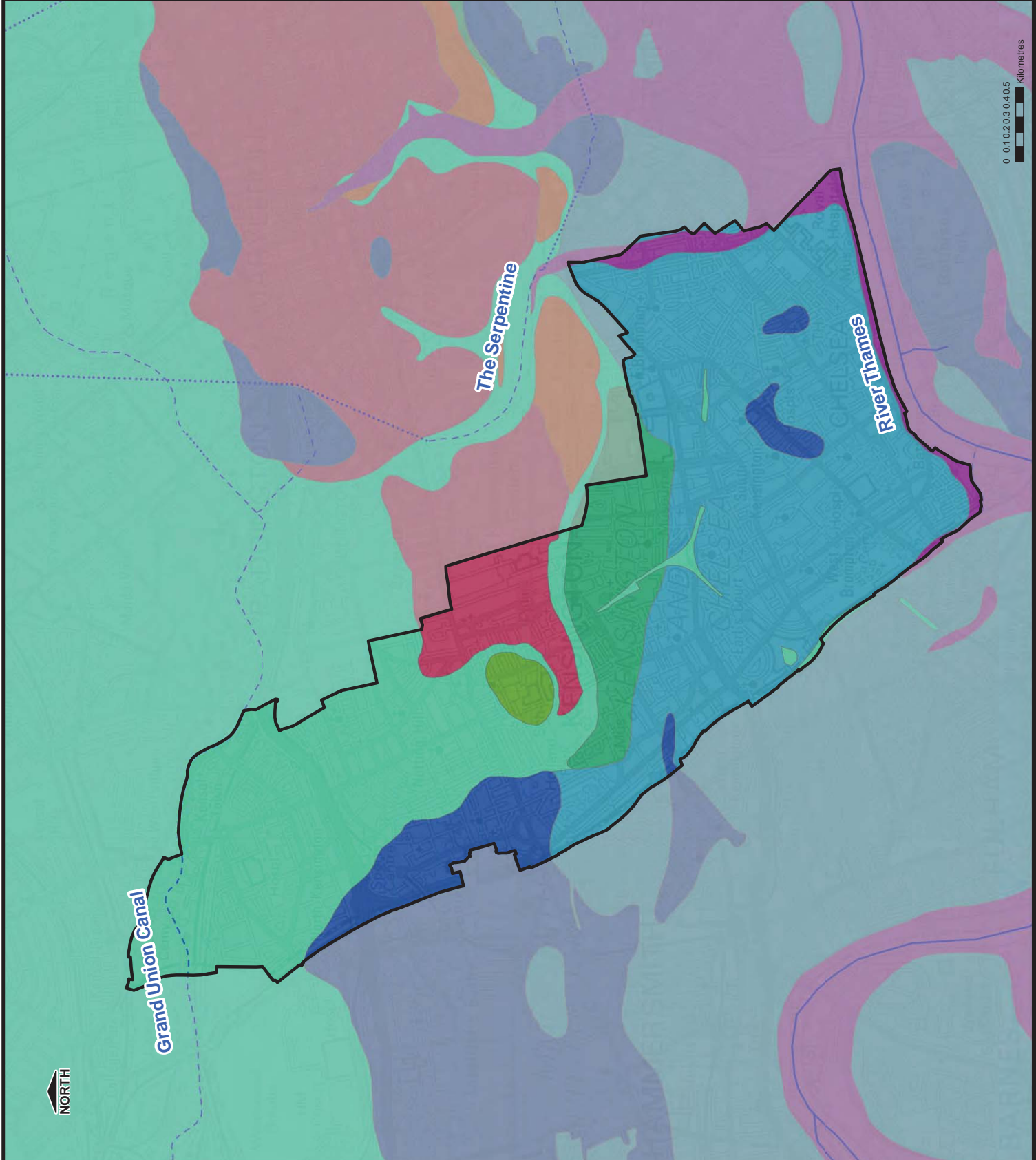
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Geological Map Overview

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Legend

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

Susceptibility to Groundwater Flooding

-  Very High >=75%
-  High; >=50% <75%
-  Moderate; >=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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THE ROYAL BOROUGH OF KENSINGTON AND CHELSEA

Strategic Flood Risk Assessment

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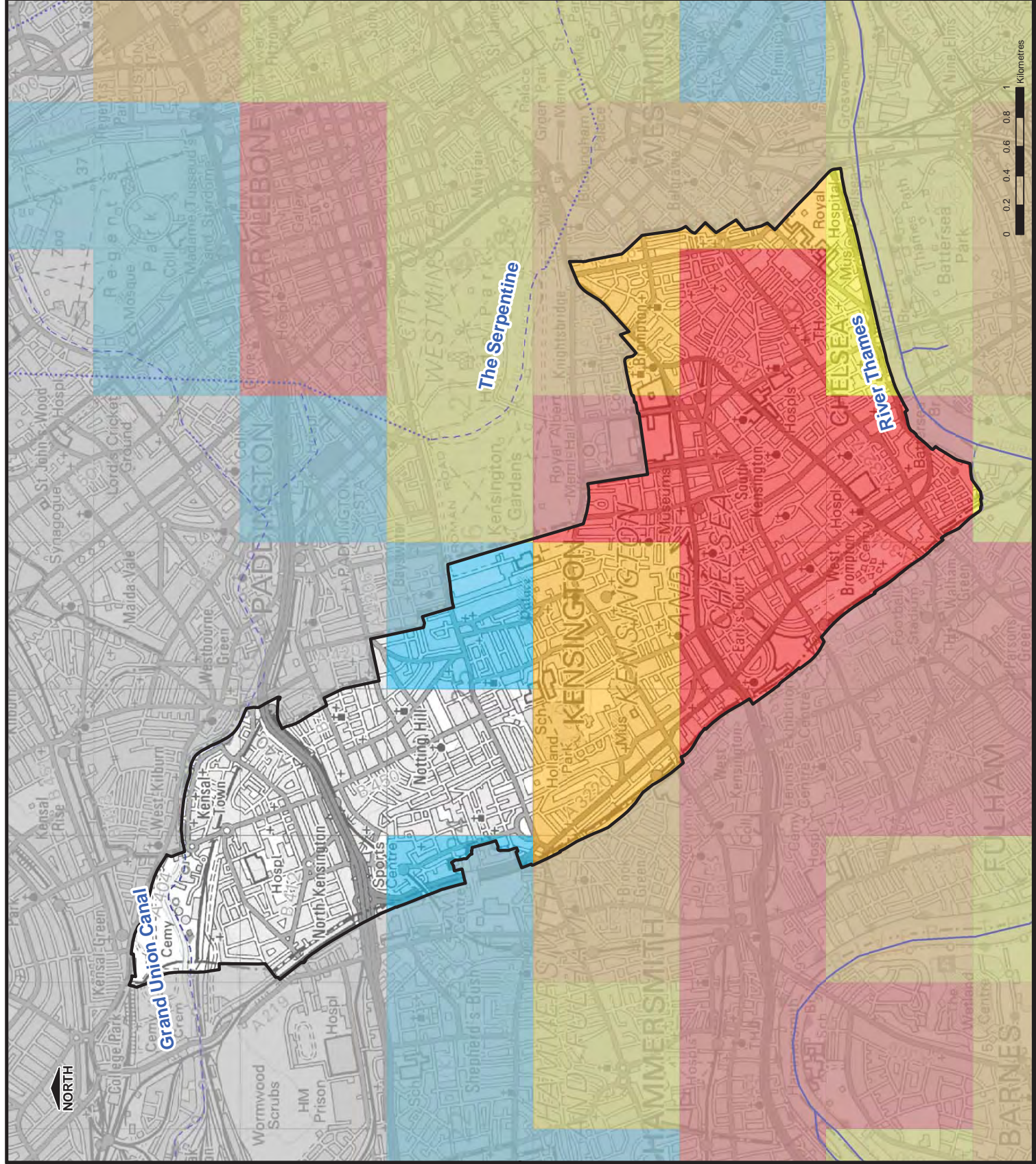
Susceptibility to Groundwater Flooding Map with Reported Historic Incidents

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FIGURE 14



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Legend

- Administrative Boundary
- EA Groundwater Source Protection Zone**
 - SPZ1 - Inner Protection Zone
 - SPZ2 - Outer Protection Zone
 - London Clay Formation (LC-CLSS)
 - Infiltration SuDS Potentially Suitable
 - Infiltration SuDS Suitability Uncertain -

Notes

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Strategic Flood Risk Assessment

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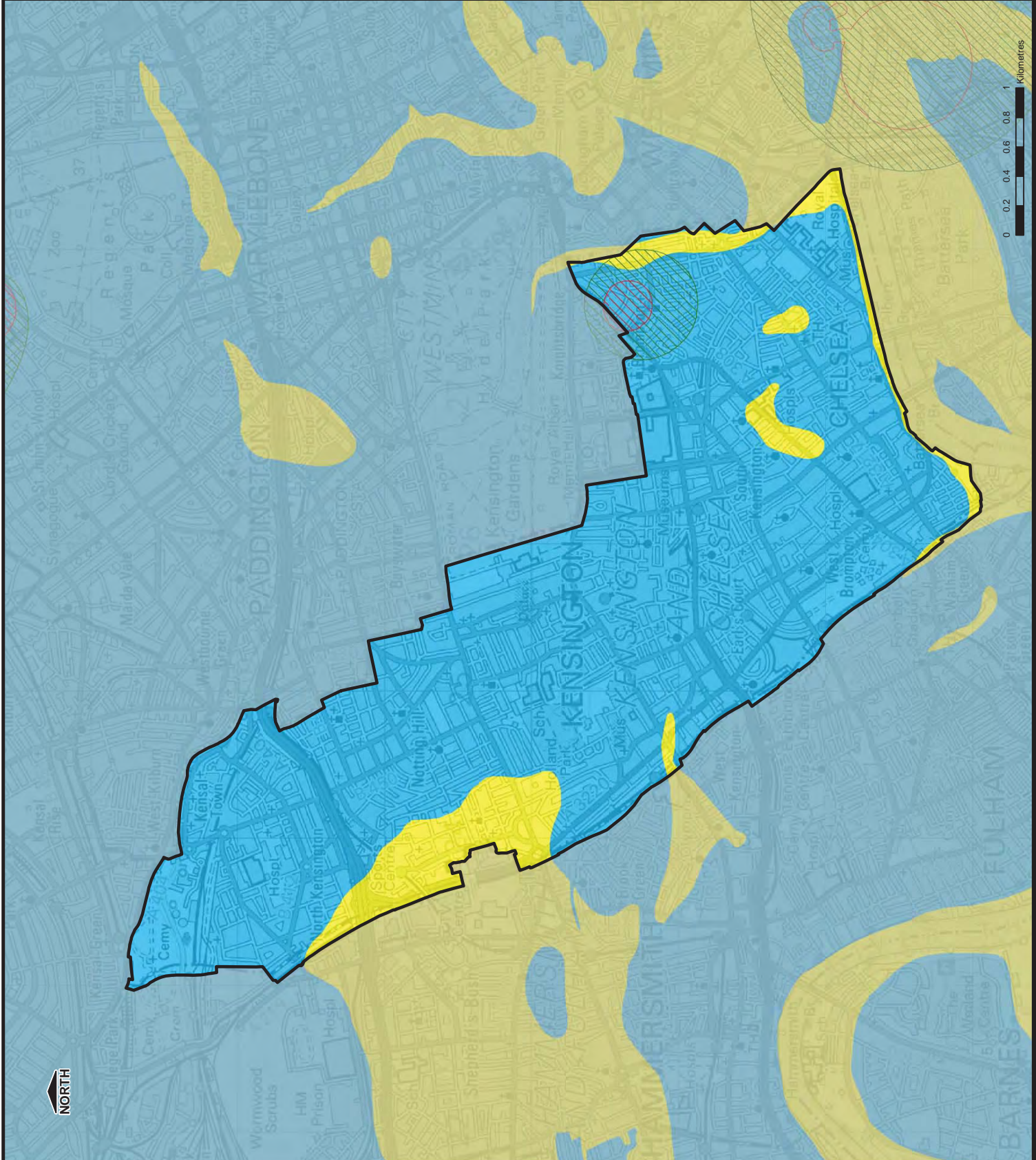
Infiltration SuDS Suitability Map

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FIGURE 15



THIS DRAWING MAY BE USED ONLY FOR THE PURPOSE INTENDED

Legend

-  Administrative Boundary
-  Increased Potential for Elevated Groundwater
-  Permeable Superficial Deposits

Notes

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Strategic Flood Risk Assessment

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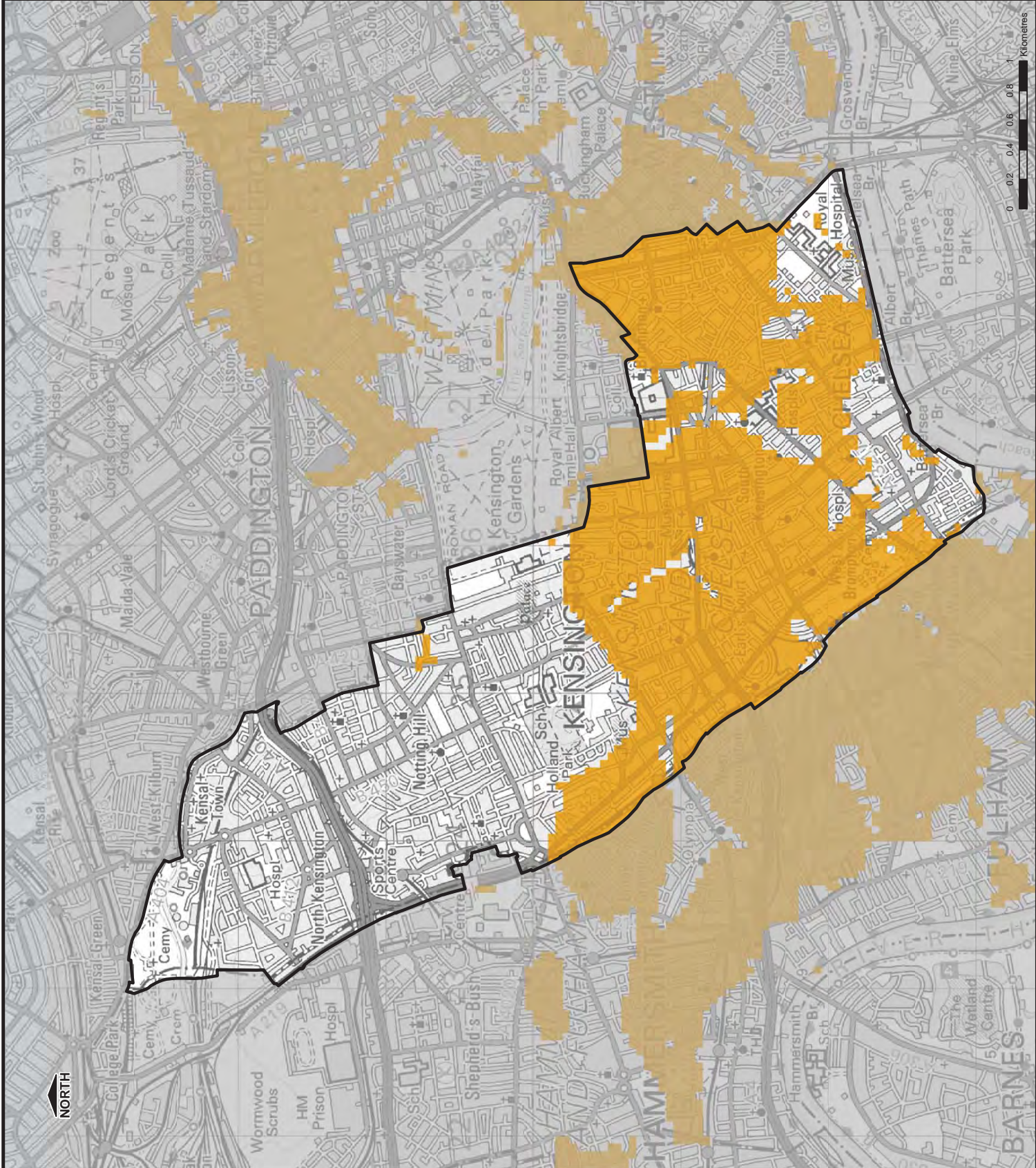
Increased Potential for Elevated Groundwater

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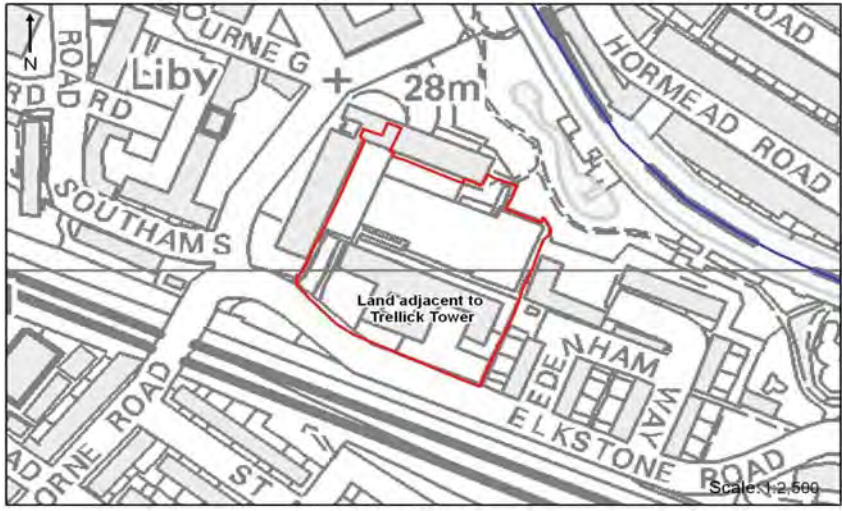

FIGURE 16

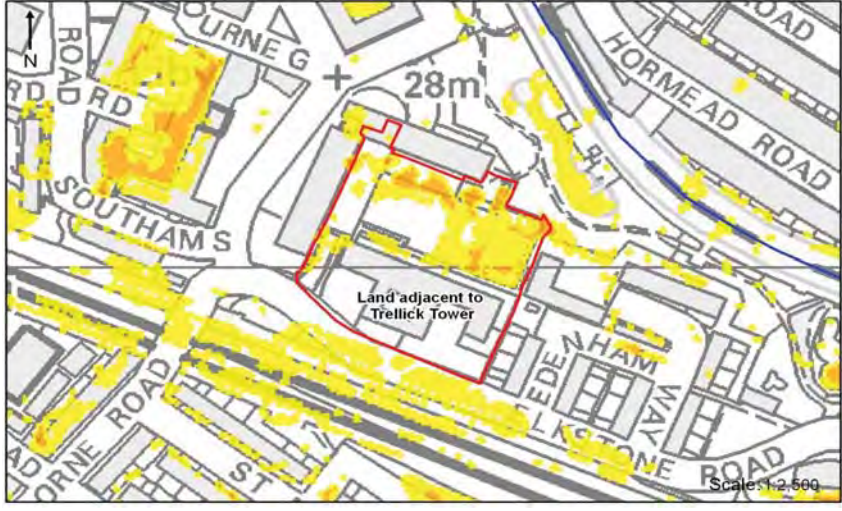


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Appendix C

Site Assessments

Site Number	03
Site Name	Land adjacent to Trellick Tower
Grid Reference	524590, 182010
CDA	This site does not fall within a CDA
Location Plan	 <p>— Site Boundary — Watercourse</p>
Size of site (ha)	0.8
Description of Existing Flood Management Infrastructure (and condition)	NFCDD does not contain any information on any structures or defences at the site.
Existing Land use	The site encompasses the former Edenham Care Home and land adjoining Trellick Tower, which is located in the north-east of the Borough and is situated in Golborne Ward. The site largely comprises of car parking and recreational area and gardens.
Proposed Land use	The development of the site to include: - new residential units (more vulnerable land use) - improvements to social and community facilities and housing
Topography	> Ground levels on the site vary. The gardens around the base of Trellick Tower are at elevations of approximately 29m. The basket ball court, playground and west car parking area which are at lower elevations compared to the rest of the site (approximately 23m to 23.5m). The car park area in the south of the site is approximately 25.5m
Risk Assessment	
Flood Zones	Proportion of the site located in:- Flood Zone 1 = 0.8ha (low risk of flooding) Flood Zone 2 = 0ha Flood Zone 3a = 0ha Flood Zone 3b = 0ha
Surface Water (Pluvial)	Surface water modelling undertaken for the Royal Borough of Kensington and Chelsea Surface Water Management Plan predicts ponding on the site during the 1 in 100 year rainfall event with an allowance for climate change. These areas of ponding occur in the lower elevations on the site (the basket ball court, playground and west car parking area). Surface water flooding on the site is associated with a moderate (danger for some) and significant (danger for most) hazard rating. Refer to the figures below for the 1 in 100 year rainfall event with an allowance for climate change.
	 <p>Flood Depth (m) < 0.1m 0.1m to 0.25m 0.25m to 0.5m 0.5m to 1.0m 1.0m to 1.5m > 1.5m</p>

Site Number	03
Site Name	Land adjacent to Trellick Tower
Grid Reference	524590, 182010
CDA	This site does not fall within a CDA
Flood Hazard	 <p> Caution (Very Low Hazard) Moderate (Danger for Some) Significant (Danger for Most) Extreme (Danger for All) </p>
Groundwater	Review of the 'Increased Potential for Elevated Groundwater' dataset and the 'Areas Susceptible to Groundwater Flooding dataset' indicates that the site is not classified as susceptible to groundwater flooding.
Artificial Sources	The Environment Agency's reservoir inundation mapping shows areas at risk of flooding from large reservoirs which hold over 25,000 cubic metres of water. The site is not shown to be at risk of flooding from a large reservoir. The Grand Union Canal Paddington Branch is located approximately 50m east of the site and is at a higher elevation (approximately 30m).
Summary of Risk	<p>> The site is located in Flood Zone 1, all uses of land are appropriate in this zone.</p> <p>> The site is not at risk from groundwater flooding. There is a risk of surface water flooding in the low lying areas. There is an unquantified flood risk from the Grand Union Canal (Paddington Branch) located at higher elevations (approximately 30m) to the east of the site.</p> <p>> Although the site is less than 1ha (0.8ha) and within Flood Zone 1, it is recommended that the planning application is supported by a flood risk assessment to consider surface water flooding at the site and the management of surface water. There would be no requirement for the site to pass the Sequential or Exception Test as it is located in Flood Zone 1 (lowest risk of flooding).</p>
Risk Management	
Flood risk management recommendations	<p>> The design and layout of the proposed development should seek as much as possible to avoid impacting overland flow routes within the site, which may increase flood risk elsewhere.</p> <p>> There is an unquantified flood risk from the Grand Union Canal (Paddington Branch) located at higher elevations (approximately 30m) to the east of the site. It is recommended that the Canal & Rivers Trust should be consulted as part of a site specific Flood Risk Assessment.</p> <p>> Ground floor levels should be above surrounding ground levels to prevent ingress of surface water runoff. This should be agreed with the EA at the earliest opportunity.</p>
SUDS Options appraisal	<p>> Development of this site is likely to result in an increase in surface water runoff, however this can be appropriately managed through the development of a SUDS treatment train for the site.</p> <p>> The site is underlain by London Clay and typically does not have a high level of permeability. Therefore there maybe limited opportunity to utilise infiltration based SUDS techniques at the site.</p> <p>> All SUDS measures are suitable depending on the final layout and results of permeability testing of the insitu soils. It is recommended that infiltration testing is undertaken to determine the suitability of infiltration devices within the site.</p>
Reasonable prospect of compliance with the Exception Test?	> The site is fully located in Flood Zone 1 and therefore there is no need to apply the Exception Test.

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