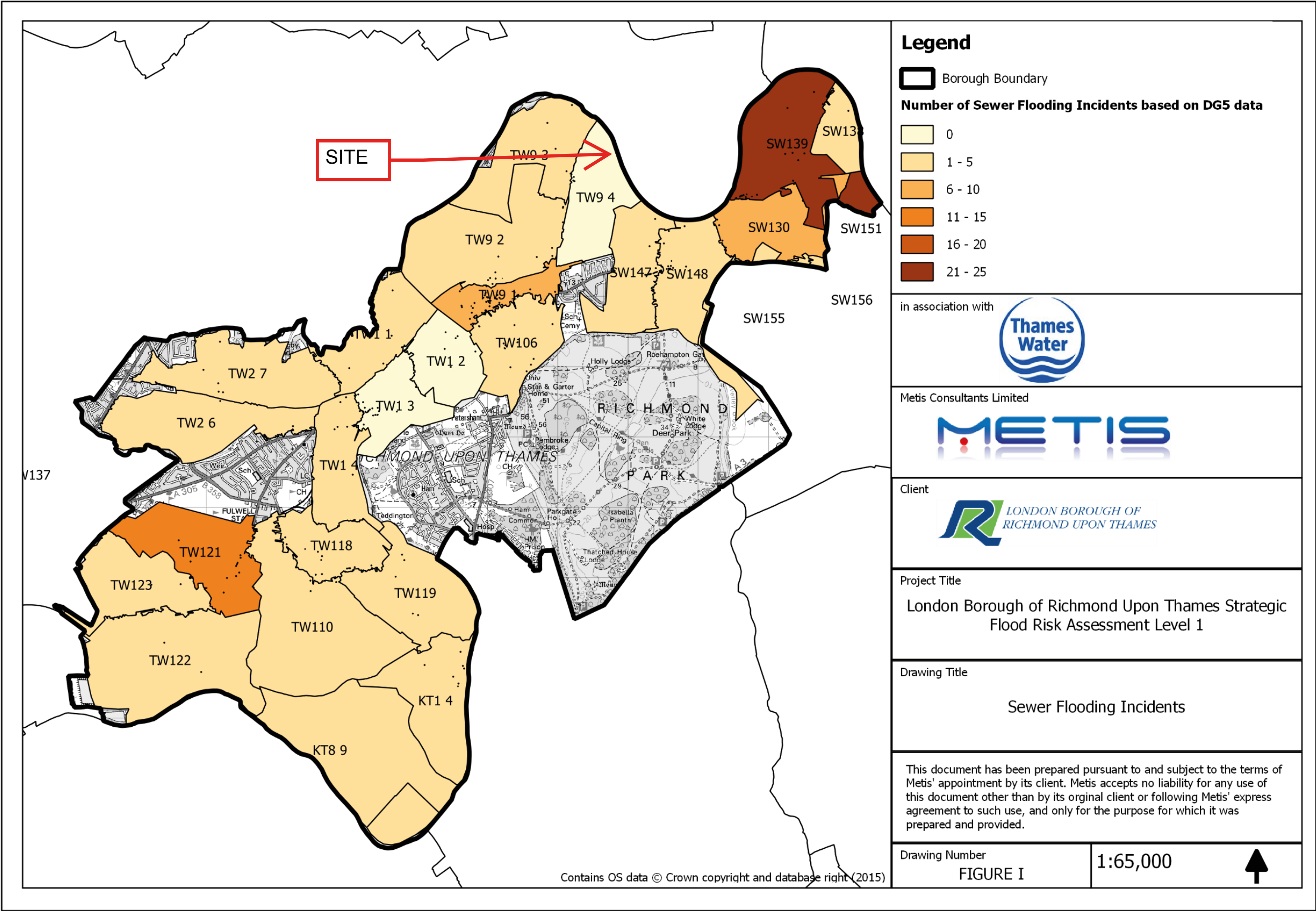




Appendix 2

Site Investigation Extracts



Proposed redevelopment
Melliss Avenue, Richmond

soiltechnics

environmental and geotechnical consultants

6.1.6 Summary

6.1.6.1 The following table summarises the geology encountered:

Table summarising soil types				
Strata	Depth to top (m)	Depth to bottom (m)	Thickness (m)	Summary description
Made Ground	0.0	1.7-4.4	1.7-4.4	Brown, dark brown and orange brown clayey gravelly sand/sandy gravelly clay. Gravel includes flint, brick, clinker, concrete and ash.
Alluvium (where encountered)	1.7-1.8	2.6-2.9	0.8-1.2	Grey brown slightly gravelly clay. Gravel consists of flint.
Kempton Park Gravel	2.6-4.4	4.7-6.2	2.1-2.6	Grey and orange brown sand and gravel
London Clay Formation	4.7-5.3	>30	Not proven	Grey brown clay
Table 6.1.6.1				

6.1.6.2 The investigation generally confirmed published geological records.

6.2 Groundwater

6.2.1 Groundwater inflows were observed in some of the exploratory excavations. A summary of our observations is tabulated below:

Table summarising groundwater observations			
Exploratory point	Date of observation	Depth (m) below ground levels	Observations
BH01	10.04.18	3.58	Standing level measured during monitoring visit
	28.03.18	3.77	
	25.04.18	3.64	
	09.05.18	3.69	
BH02	14.03.18	3.54	Measured 30 minutes after completion
BH03	12.03.18	4.8m	Rose to 4.1m. Sealed out at 6.0m
	10.04.18	3.62	Standing level measured during monitoring
	28.03.18	2.53	
	25.04.18	3.7	
	09.05.18	3.88	
BH04	14.03.18	2.3m	Measured 10 minutes after completion
	10.04.18	2.41	Standing level measured during monitoring visit
	28.03.18	2.34	
BH06 (shallow)	10.04.18	4.74	Standing level measured during monitoring visit
	28.03.18	4.66	
	25.04.18	5.06	
	09.05.18	5.09	
BH06 (deep)	10.04.18	4.95	Standing level measured during monitoring visit
	28.03.18	4.67	
	09.05.18	5.1	
BH07	14.03.18	4.4m	Measured 15 minutes after completion
Table 6.2.1			

Appendix 3

Environment Agency Flood Data





Product 4 (Detailed Flood Risk) for: Melliss Avenue, Kew, TW9 4BD
 Requested by: Kico Bela
 Reference: KSL 66463 UE
 Date: 15 November 2017

Contents

- Flood Map for Planning (Rivers and Sea)
- Flood Map Extract
- Thames Estuary 2100 (TE2100)
- Thames Tidal Upriver Breach Inundation Modelling 2017
- Thames Tidal Upriver Breach Inundation Modelling Map
- Site Node Locations Map
- Defence Details
- Recorded Flood Events Data
- Recorded Flood Events Outlines Map
- Additional Information

The information provided is based on the best data available as of the date of this letter.

You may feel it is appropriate to contact our office at regular intervals, to check whether any amendments/ improvements to the data for this location have been made. Should you re-contact us after a period of time, please quote the above reference in order to help us deal with your query.

Please refer to the [Open Government Licence](#) which explains the permitted use of this information.

Orchard House, Endeavour Park, London Road, Addington, West Malling, Kent, ME19 5SH.
 Customer services line: 01732 223 202
 Email: kslenquiries@environment-agency.gov.uk
 Website: <https://www.gov.uk/government/organisations/environment-agency>



Flood Map for Planning (Rivers and Sea)

The Flood Map:

Our Flood Map shows the natural floodplain for areas at risk from river and tidal flooding. The floodplain is specifically mapped ignoring the presence and effect of defences. Although flood defences reduce the risk of flooding they cannot completely remove that risk as they may be over topped or breached during a flood event.

The Flood Map indicates areas with a 1% (0.5% in tidal areas), Annual Exceedance Probability (AEP) - the probability of a flood of a particular magnitude, or greater, occurring in any given year, and a 0.1% AEP of flooding from rivers and/or the sea in any given year. In addition, the map also shows the location of some flood defences and the areas that benefit from them.

The Flood Map is intended to act as a guide to indicate the potential risk of flooding. When producing it we use the best data available to us at the time and also take into account historic flooding and local knowledge. The Flood Map is updated on a quarterly basis to account for any amendments required. These amendments are then displayed on the internet at <https://www.gov.uk/check-flood-risk>

At this Site:

The Flood Map shows that this site lies within the outline of Flood Zone 3. This zone comprises land assessed as having a 0.5% (1 in 200) or greater annual probability of tidal flooding.

is not within the current 'Extreme Flood Outline'. According to the Flood Map, which provides a general estimate of the likelihood of flooding across England & Wales, this site is shown to have less than 0.1% (1 in 1000) chance of flooding in any year from rivers and/or the sea.

Enclosed is an extract of our Flood Map which shows this information for your area.

Method of production

The Flood Map at this location has been derived using detailed modelling of the tidal River Thames through the Thames Tidal Defences Study completed in 2006 by Halcrow Ltd.

Orchard House, Endeavour Park, London Road, Addington, West Malling, Kent, ME19 5SH.
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