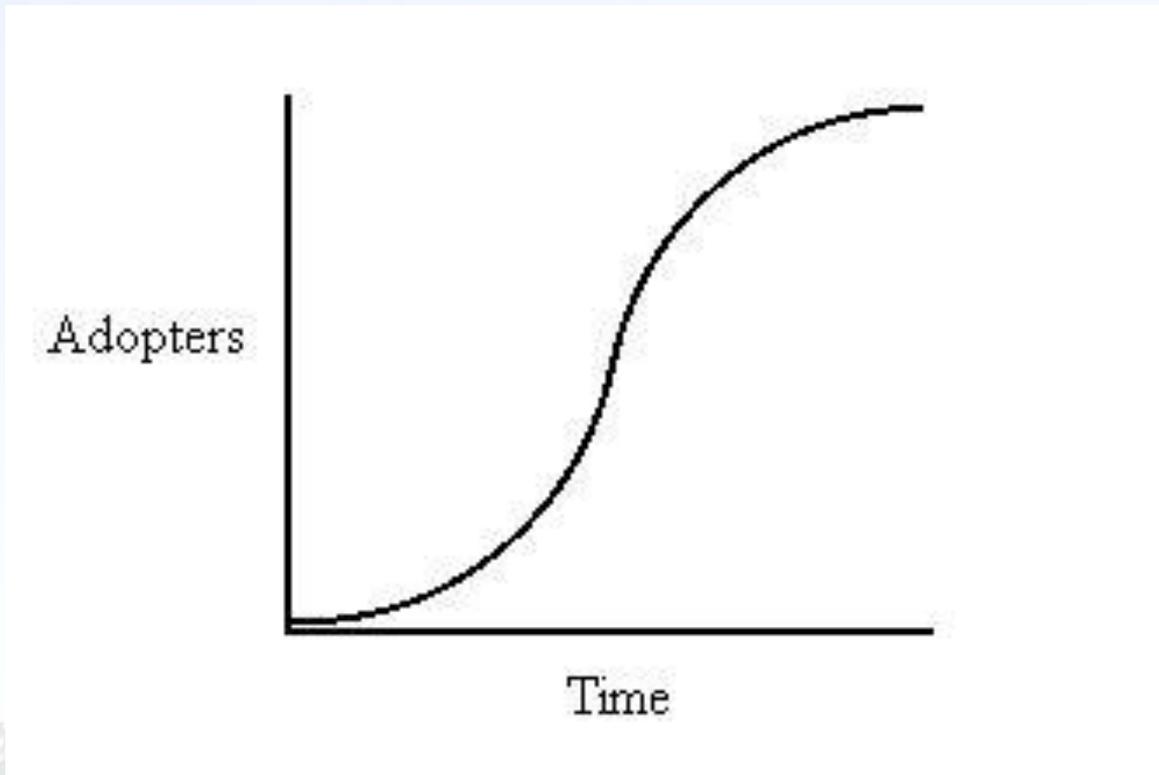


Helping Londoners to prepare for flooding



What we need for Londoners

- An effective warning system for surface water flooding:
 - Reliable
 - Easy to understand
 - Maximises response time
 - Affordable
 - Integrates all sources of flood risk
 - Easy to sign up / communicate



How do we transfer useful elements of the project to benefit more communities across London?

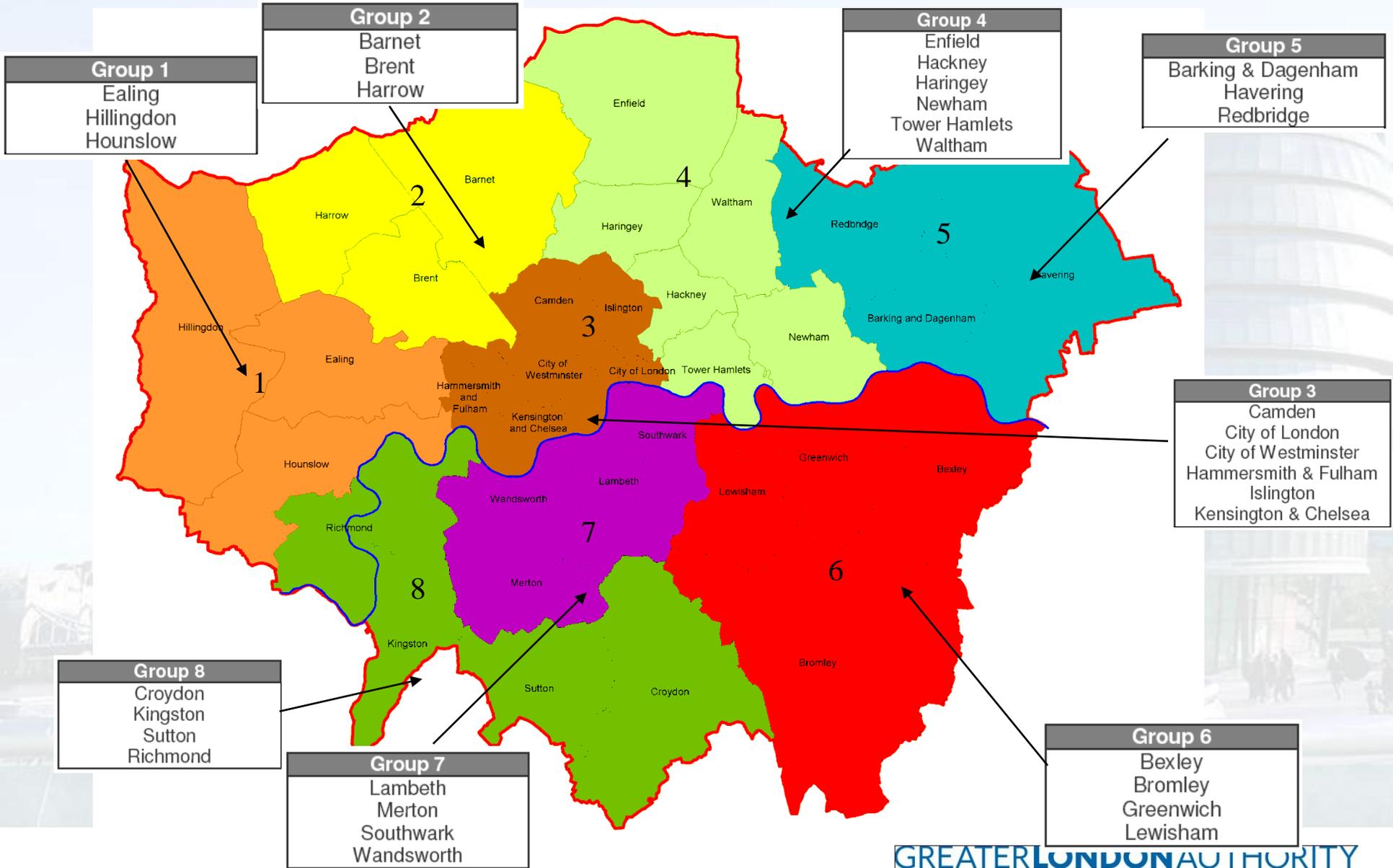
The state of play in London

Early 2007, surface water flood identified as a potential threat

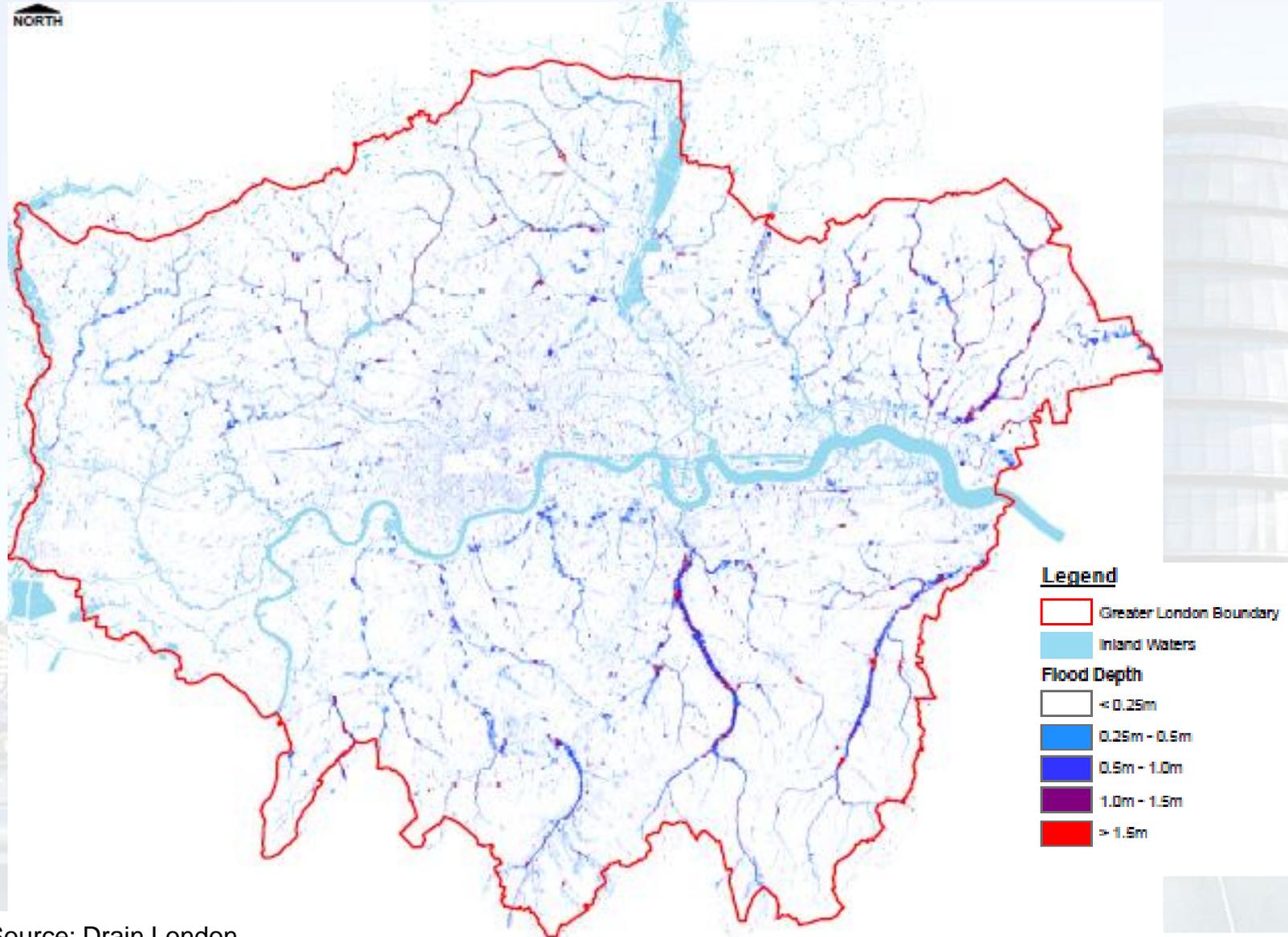
- no ownership of risk
- no map of where might get wet
- fragmented responsibility for delivery
- low skills base outside consultancies
- 33 boroughs, therefore 33 ways of working
- Summer floods 2007 - £3bn insured losses
- Government commissioned 'Pitt Review'
- Flood and Water Management Act

Drain London

1. Map surface water flood risk across London
2. Identify 'critical drainage areas'
3. Develop surface water management plans for each London Borough
4. Undertake actual flood risk mitigation projects



Surface water flood risk



Source: Drain London

Output - Flood Depth

THIS DRAWING MAY BE USED ONLY FOR THE PURPOSE INTENDED

Legend

Flood depth

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

- Main River
- Ordinary Watercourse
- Culverted Watercourse
- Permanent Water Bodies
- Critical Drainage Area
- Flooded Building (Without Basement)
- Flooded Building (With Basement)

Notes

- This map only shows the predicted likelihood of surface water flooding (this includes flooding from sewers, drains, small watercourses and ditches that occurs in heavy rainfall) for defended areas, and due to the coarse nature of the source data used, are not detailed enough to account for precise addresses.
- Users of this map should refer to section 3.2 of the Surface Water Management Plan for a complete description of limitations and accuracy of the flood/hazard extents shown.

London Borough of Redbridge

London Borough of **Redbridge**

Surface Water Management Plan

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 Covers all data that has been supplied and distributed under license for the Drain London project.
 Digital geological data reproduced from British Geological Survey
 (c) NERC Licence No 2011/053A

Scale at A3 1:6,704	Date 31/01/2011	Drawn by F.Hurt	Approved by P.Eccleston
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**Woodford Green Surface Water Depth (m)
1 in 100 Chance of rainfall event occurring
in any given year (1% AEP)**

Consultants

JACOBS JACOBS CONSULTANTS

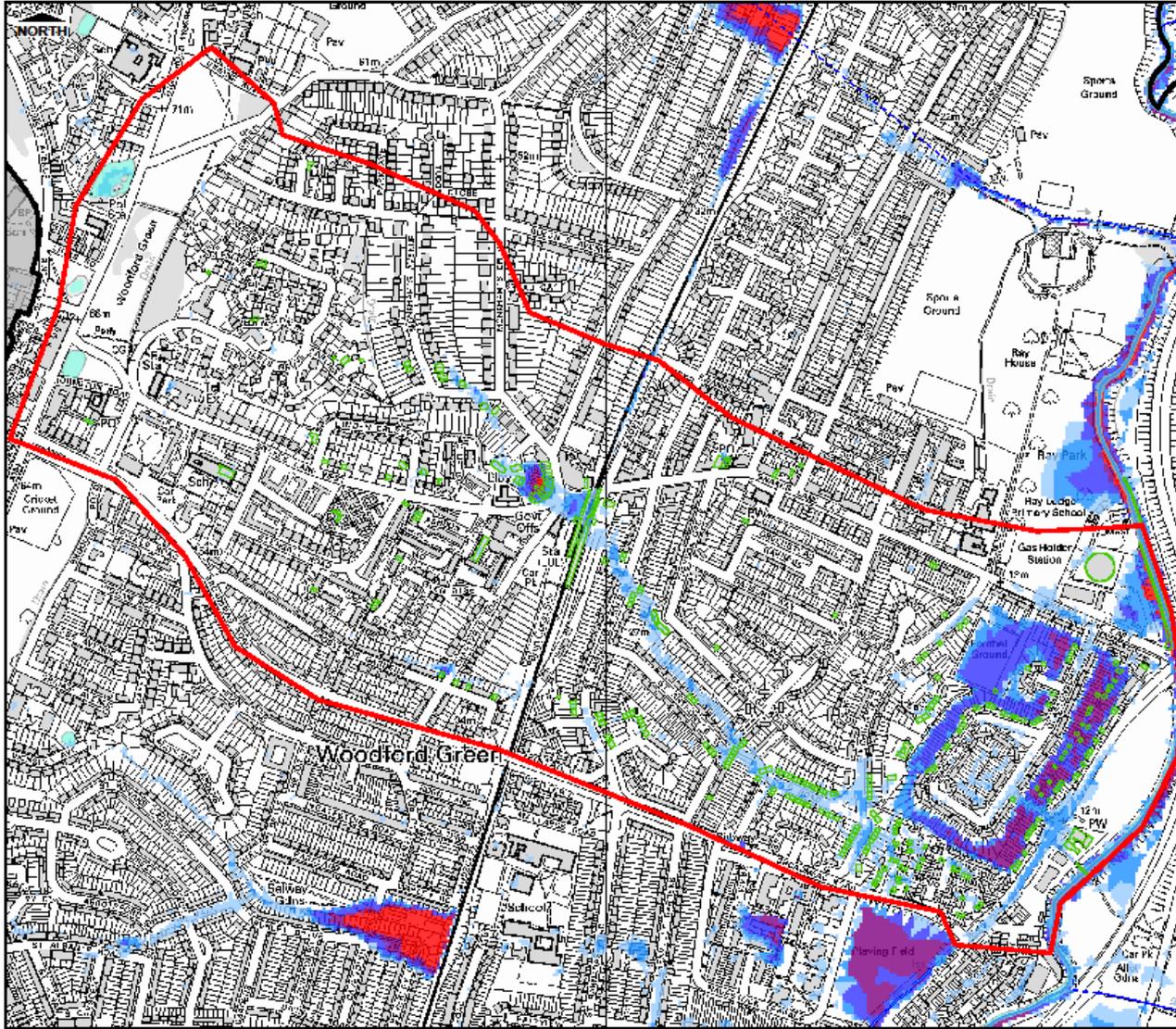
JACOBS UK Ltd.
Simpson House
6 Cherry Orchard Road
CROYDON
Surrey
CR9 6BE

Drain London Programme Board Members

Environment Agency **Thames Water** **LONDON COUNCILS**

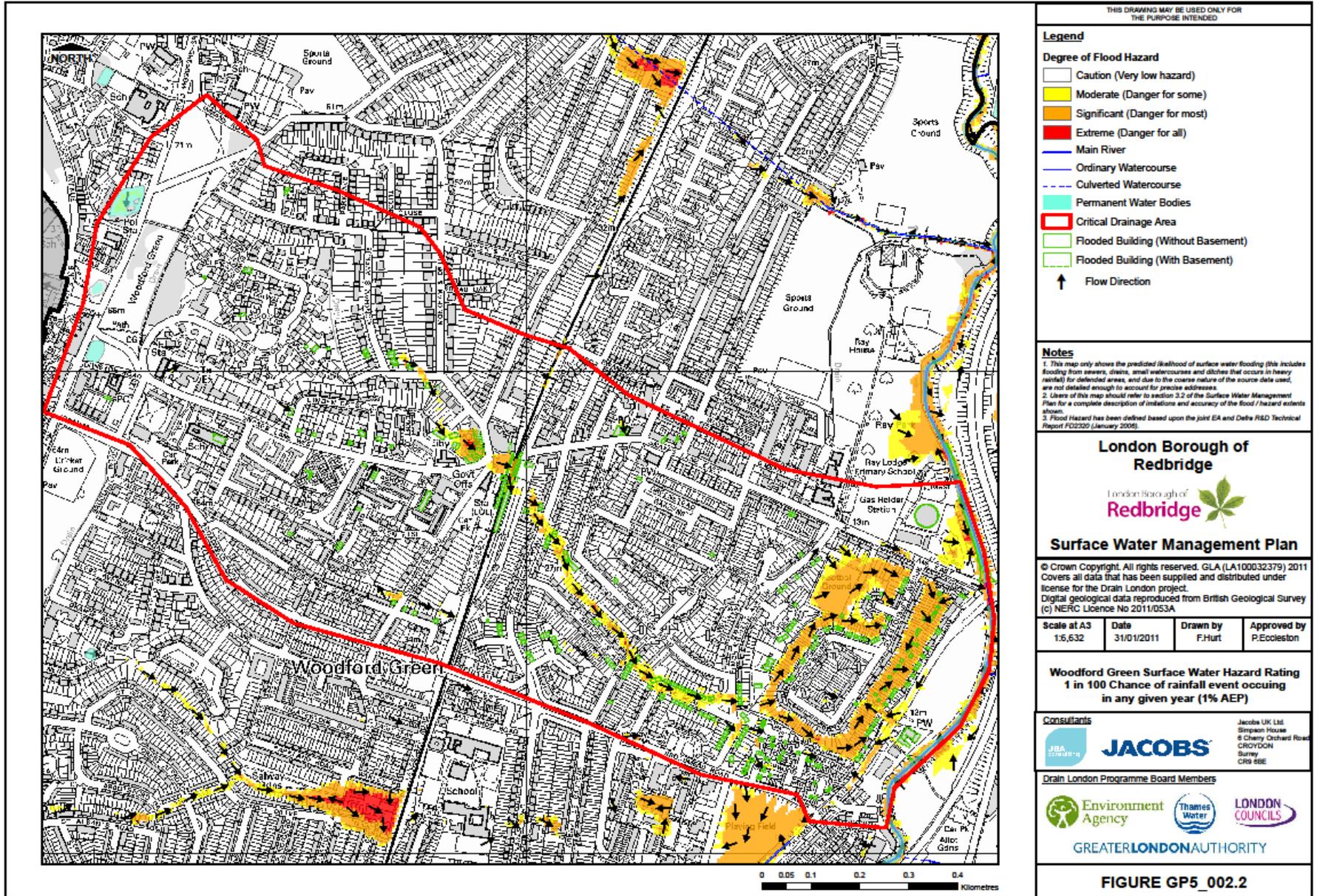
GREATER LONDON AUTHORITY

FIGURE GP5_002.1

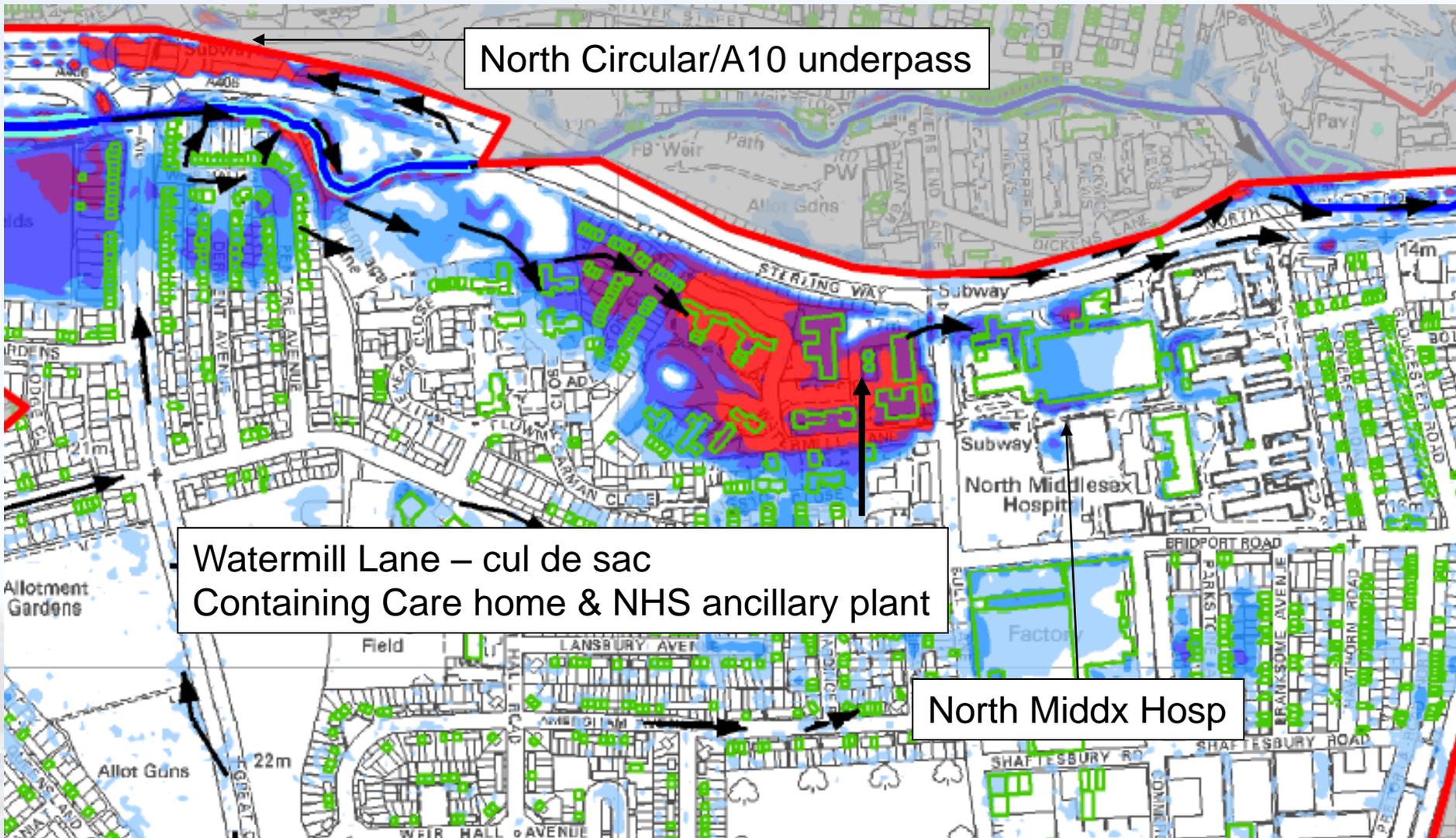


The Path: N:\2009\Projects\GP5_002_1 - Jacobs UK Ltd - Drain London - The 2 Group (Simplified) Data\GIS\MapServer\Layers\GP5_002_1_depth.mxd

Output - Flood Hazard



Flood Depth – CDA Group4_009 1in 100year +CC



Deliverables

- EA published all Preliminary Flood Risk Appraisals
- Every borough has a draft SWMP and developing their flood risk management strategies

Green Roofs





**MAKE
YOUR
FLOOD
PLAN**

**BEFORE
IT
FLOODS**

WHAT TO DO

These are the warnings issued by the Environment Agency in the event of a flood



FLOOD ALERT

What it means
Flooding is possible. Be prepared.

When it's used
Two hours to two days in advance of flooding

- What to do**
- Be prepared to act on your flood plan
 - Prepare a flood kit of essential items
 - Monitor local water levels and the flood forecast on www.xxv



FLOOD WARNING

What it means
Flooding is expected. Immediate action is required

When it's used
Half an hour to one day in advance of flooding

- What to do**
- Move family, pets and valuables to a safe place
 - Turn off gas, electricity and water supplies if safe to do so
 - Put flood protection equipment in place



SEVERE FLOOD WARNING

What it means
Severe flooding. Danger to life

When it's used
When flooding poses a significant threat to life.

- What to do**
- Stay in a safe place with a means of escape
 - Be ready should you need to evacuate from your home
 - Co-operate with the emergency services
 - Call 999 if in immedaite danger

Warnings no longer in force

What it means
No further flooding is currently expected in your area

When it's used
When river or sea conditions begin to return to normal

- What to do**
- Be careful. Flood water may still be around for several days
 - If you've been flooded, ring your insurance company as soon as possible

Links between Drain London and Rain

Gain

- A ready-made Forum of key stakeholder
- Good working relationship with national government
- Keen to ensure local government can use the transferable pieces of the project
 - E.g. Workshop pack to enable communities to understand potential flood risk mitigation options for their local area

Thank you

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