

London Regional Flood Risk Appraisal

First Review

August 2014

Appendix 5

Flood Risk Maps

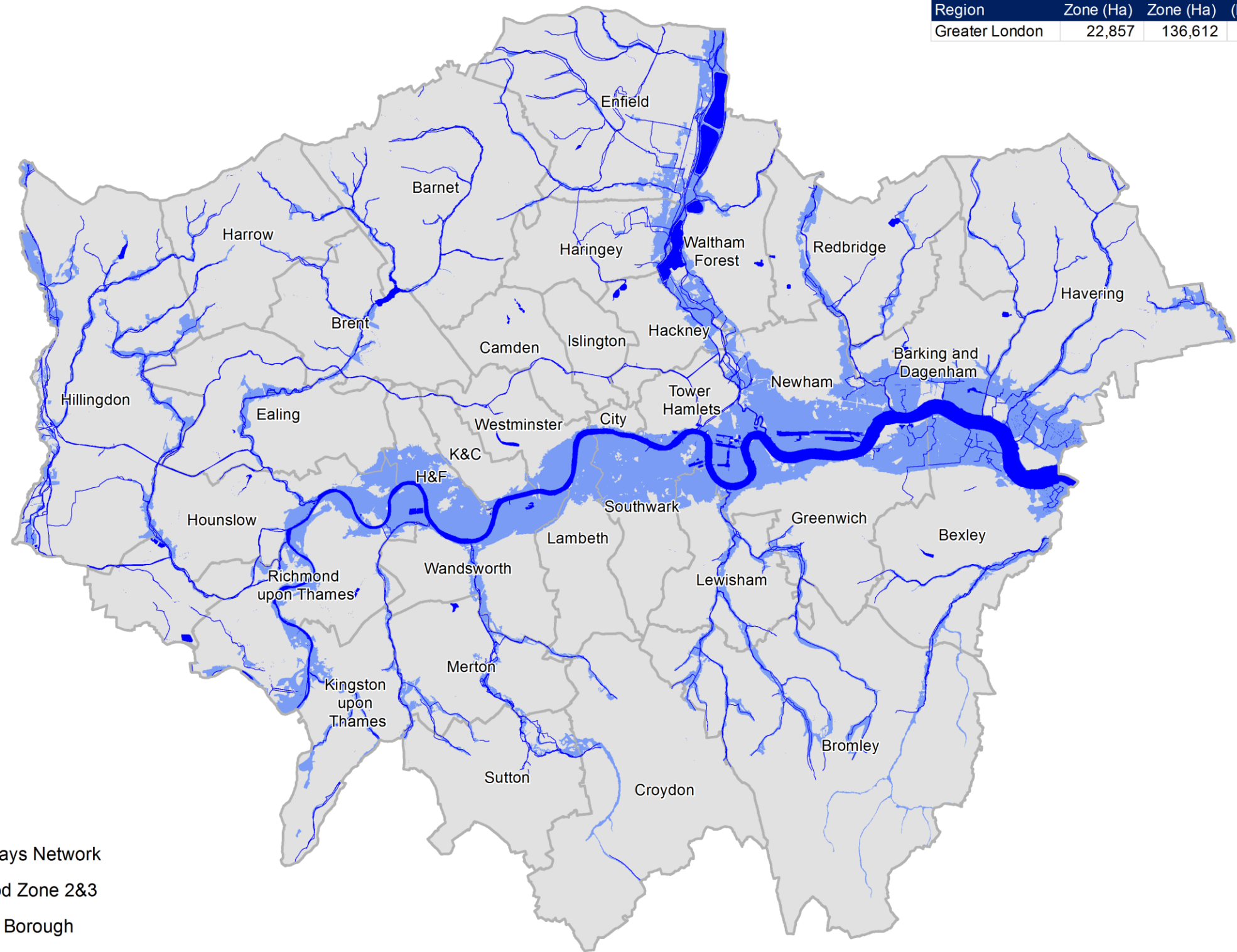
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Map 1

Environment Agency Flood Zones 2 and 3

Region	Area in Flood Zone (Ha)	Area out of Flood Zone (Ha)	Total Area (Ha)	Portion in Flood Risk
Greater London	22,857	136,612	159,470	14%



- Waterways Network
- EA Flood Zone 2&3
- London Borough

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Map 2

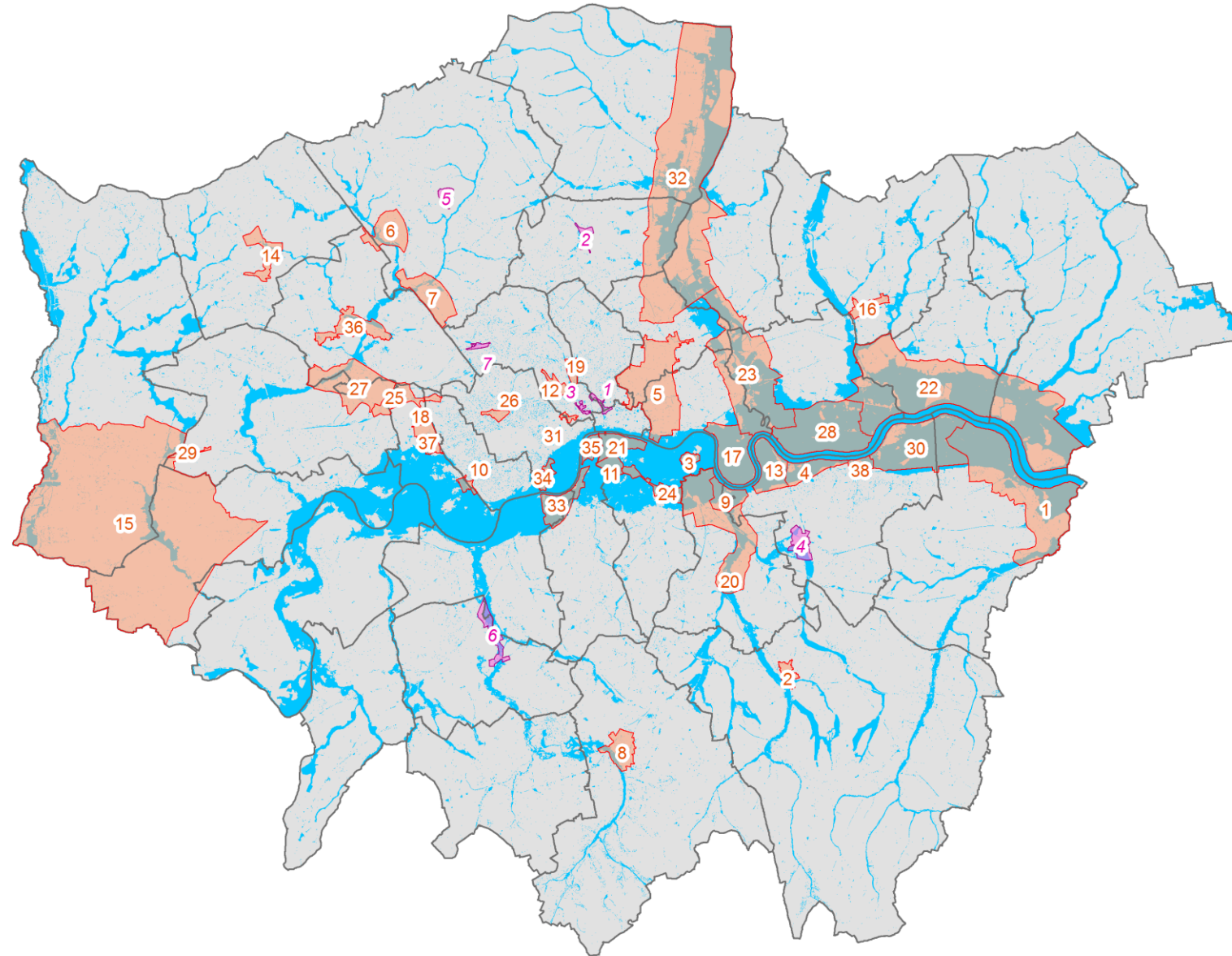
Drain London Flood Risk

Region	Hectares in Flood Area	Hectares out of Flood Area	Total Hectares	Portion in Flood Risk
Greater London	5,414	154,056	159,470	3%



Map 3

Major Development Locations and Flood Risk



* Areas shown are indicative

Combined flood area
 Intensification Area
 London Borough
 Opportunity Area

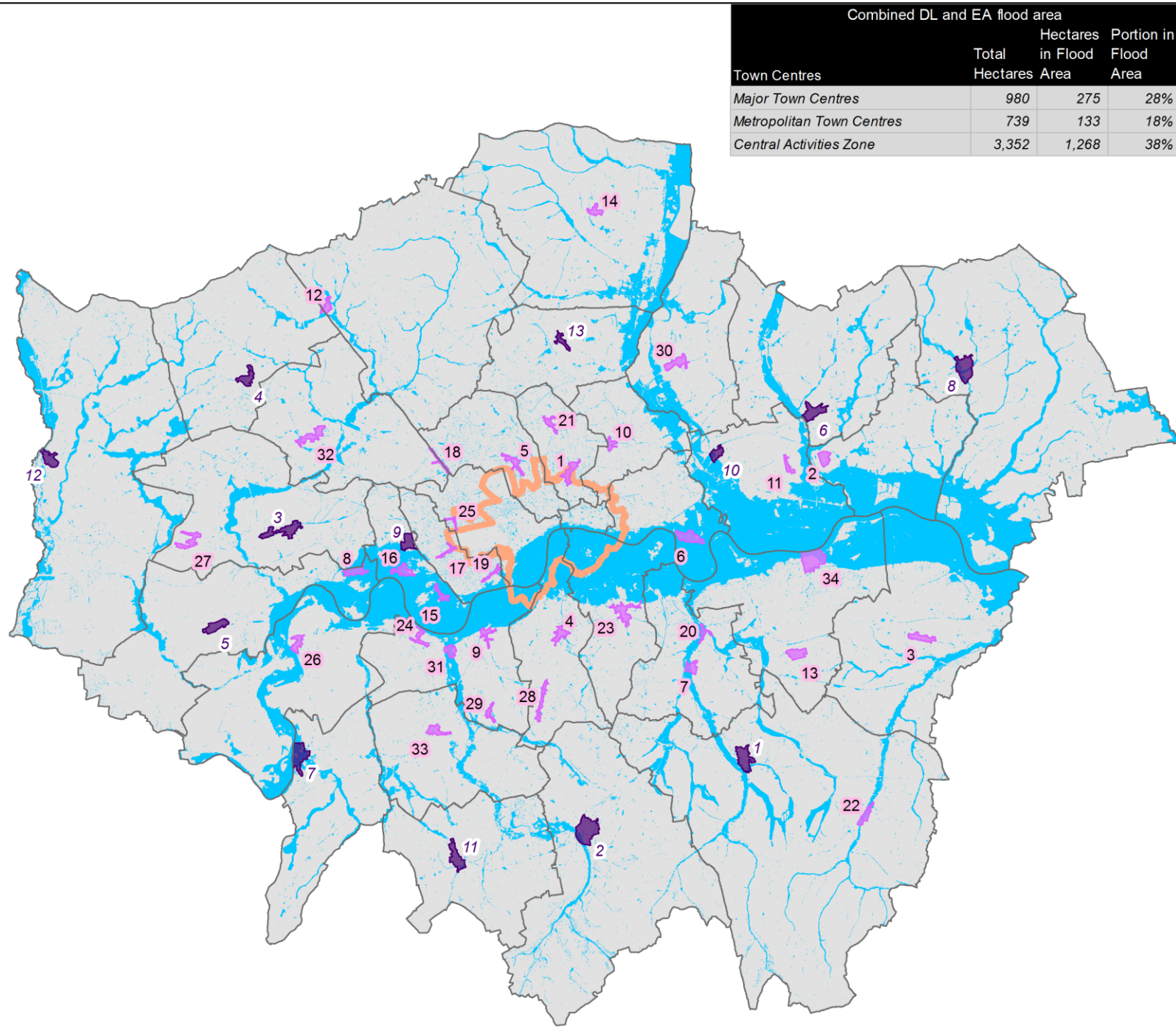
Combined DL and EA flood area			
Major Development Location	Total Hectares	Hectares in Flood Area	Portion in Flood Area
Areas for Intensification	391	125	32%
Opportunity Areas	24,554	9,502	39%

Ref	Intensification Area	Total * Area (Ha)	Area in DL Flood Zone (Ha)	Portion in DL Flood Zone	Area in EA Flood Zone (Ha)	Portion in EA Flood Zone
1	Farringdon/Smithfield	23	3	12%	0	0%
2	Haringey Heartlands/Wood Green	50	7	13%	0	0%
3	Holborn	13	1	4%	0	0%
4	Kidbrooke	115	12	10%	49	43%
5	Mill Hill East	48	1	2%	0	0%
6	South Wimbledon/Colliers Wood	122	9	7%	60	49%
7	West Hampstead Interchange	18	2	13%	0	0%
Total		391	34	9%	109	28%

Ref	Opportunity Area	Total * Area (Ha)	Area in DL Flood Zone (Ha)	Portion in DL Flood Zone	Area in EA Flood Zone (Ha)	Portion in EA Flood Zone
1	Bexley Riverside	1410	61	4%	822	58%
2	Bromley	69	5	7%	3	4%
3	Canada Water	46	1	2%	33	71%
4	Charlton Riverside	184	15	8%	147	80%
5	City Fringe/ Tech City	901	29	3%	16	2%
6	Colindale/Burnt Oak	262	10	4%	21	8%
7	Cricklewood/Brent Cross	324	19	6%	15	5%
8	Croydon	194	28	14%	24	12%
9	Deptford Creek/Greenwich Riverside	166	7	4%	129	78%
10	Earls Court	38	3	9%	27	72%
11	Elephant and Castle	88	2	2%	87	100%
12	Euston	85	6	7%	0	0%
13	Greenwich Peninsular	281	12	4%	245	87%
14	Harrow & Wealdstone	177	8	4%	8	4%
15	Heathrow incl. hinterland	7053	94	1%	416	6%
16	Ilford	85	3	4%	1	1%
17	Isle of Dogs	429	18	4%	415	97%
18	Kensal Canalside	20	1	4%	0	0%
19	King's Cross	53	5	10%	0	0%
20	Lewisham, Catford & New Cross	818	109	13%	360	44%
21	London Bridge, Borough & Bankside	164	7	4%	164	100%
22	London Riverside	2925	164	6%	1923	66%
23	Lower Lea Valley	1378	52	4%	856	62%
24	Old Kent Road	113	5	4%	107	94%
25	Old Oak Common	164	9	5%	0	0%
26	Paddington	38	3	7%	0	0%
27	Park Royal	587	22	4%	38	6%
28	Royal Docks & Beckton Waterfront	846	21	2%	812	96%
29	Southall	46	1	1%	0	0%
30	Thamesmead & Abbey Wood	842	42	5%	748	89%
31	Tottenham Court Road	19	1	4%	0	0%
32	Upper Lea Valley	3959	95	2%	1348	34%
33	Vauxhall, Nine Elms & Battersea	227	11	5%	222	98%
34	Victoria	53	3	6%	45	84%
35	Waterloo	83	6	7%	83	100%
36	Wembley	239	14	6%	29	12%
37	White City	107	5	4%	3	2%
38	Woolwich	81	6	7%	26	32%
Total		24,554	901	4%	9,169	37%

Map 4

Town Centres and Flood Risk



Town Centres	Combined DL and EA flood area		
	Total in Flood Hectares	Hectares in Flood Area	Portion in Flood Area
Major Town Centres	980	275	28%
Metropolitan Town Centres	739	133	18%
Central Activities Zone	3,352	1,268	38%

Ref	Major Centres	Total Area (Ha)	Area in DL Flood Zone (Ha)	Portion in DL Flood Zone	Area in EA Flood Zone (Ha)	Portion in EA Flood Zone
1	Angel	34	1	3%	0	0%
2	Barking	31	1	3%	0	0%
3	Bexleyheath	34	1	3%	0	0%
4	Brixton	30	3	9%	0	0%
5	Camden Town	28	2	7%	0	0%
6	Canary Wharf	53	5	9%	51	97%
7	Catford	25	9	37%	9	36%
8	Chiswick	34	0	1%	34	100%
9	Clapham Junction	23	2	11%	1	4%
10	Dalston	16	2	15%	0	0%
11	East Ham	16	0	1%	0	0%
12	Edgware	21	1	3%	3	15%
13	Eltham	39	1	1%	0	0%
14	Enfield Town	21	1	3%	0	0%
15	Fulham	17	0	2%	16	99%
16	Hammersmith	34	2	7%	29	84%
17	High Street Kensington	12	0	2%	0	0%
18	Kilburn	17	1	4%	0	0%
19	King's Road (East)	11	0	3%	0	3%
20	Lewisham	16	4	24%	15	92%
21	Nags Head	17	1	4%	0	0%
22	Orpington	27	15	57%	10	37%
23	Peckham	51	2	4%	0	0%
24	Putney	21	3	12%	1	5%
25	Queensway/Westbourne Grove	5	0	2%	0	0%
26	Richmond	29	2	7%	1	2%
27	Southall	38	0	1%	0	0%
28	Streatham	27	2	7%	0	0%
29	Tooting	15	0	3%	0	0%
30	Walthamstow	39	2	4%	0	0%
31	Wandsworth	24	2	6%	16	69%
32	Wembley	45	3	7%	0	0%
33	Wimbledon	31	2	7%	0	0%
34	Woolwich	100	6	6%	44	44%
Total		980	76	8%	230	24%

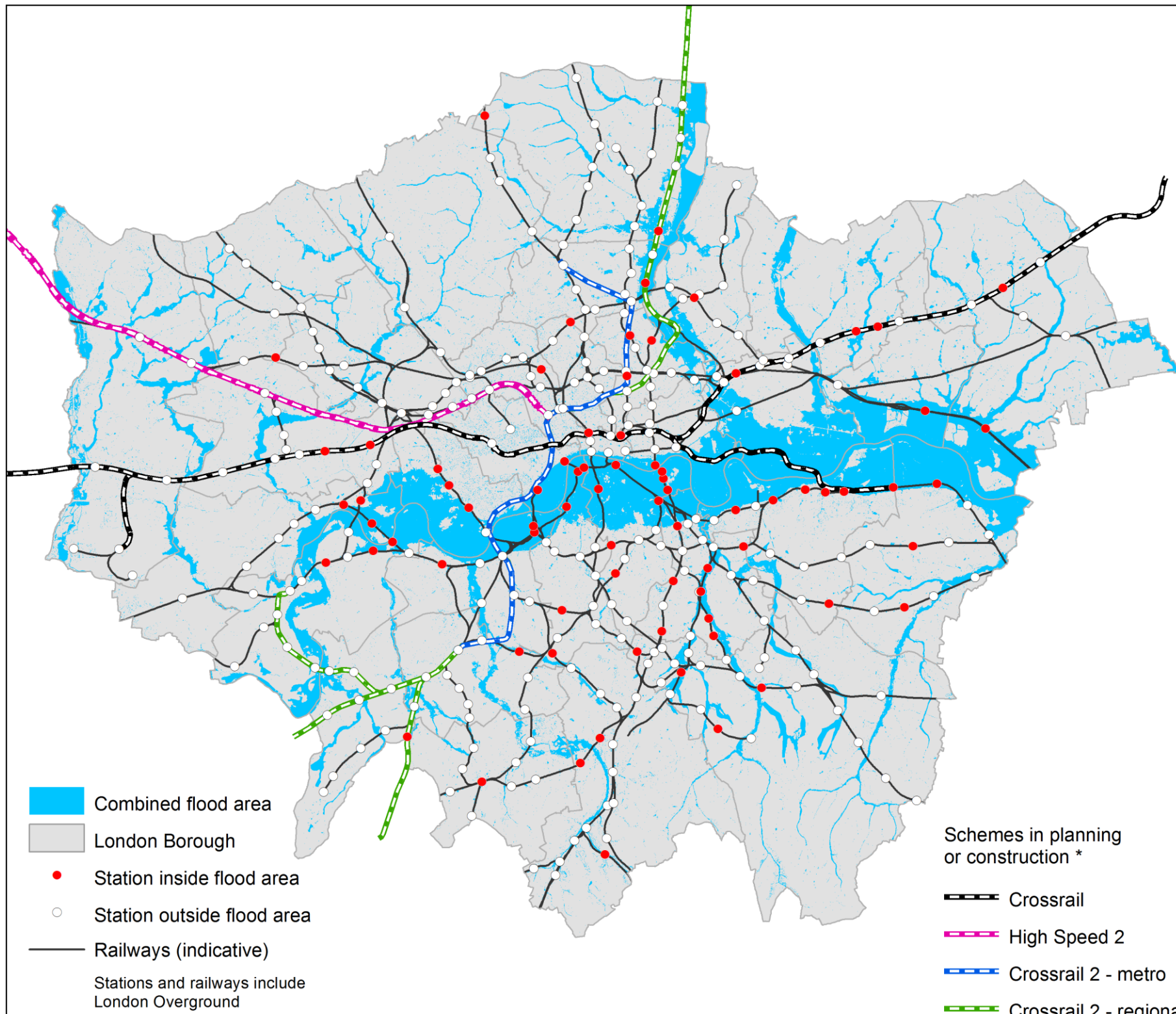
Ref	Metropolitan Centres	Total Area (Ha)	Area in DL Flood Zone (Ha)	Portion in DL Flood Zone	Area in EA Flood Zone (Ha)	Portion in EA Flood Zone
1	Bromley	69	5	7%	3	4%
2	Croydon	112	15	13%	11	10%
3	Ealing	68	3	4%	0	0%
4	Harrow	39	1	3%	0	0%
5	Hounslow	44	1	1%	0	0%
6	Ilford	55	2	4%	0	1%
7	Kingston	79	3	4%	61	77%
8	Romford	82	14	17%	12	15%
9	Shepherds Bush	40	2	5%	2	6%
10	Stratford	29	0	2%	7	23%
11	Sutton	58	4	8%	0	0%
12	Uxbridge	44	3	6%	2	4%
13	Wood Green	21	1	2%	0	0%
Total		739	53	7%	98	13%

	Total Area (Ha)	Area in DL Flood Zone (Ha)	Portion in DL Flood Zone	Area in EA Flood Zone (Ha)	Portion in EA Flood Zone
Central Activities Zone	3352	171	5%	1150	34%

* including the International Centres (West End and Knightsbridge)

■ Combined flood area
 ■ Metropolitan Centre
 Central Activities Zone
 London Borough
 ■ Major Centre

Mainline Rail Network and Flood Risk



Routes are indicative and multiple tracks are represented as a single line. Each rail station is represented as a single point regardless of the extent of the site. Rail lines and stations include London Overground

Drain London Flood Depth > 0.3m				
Transport Network	Distance in Flood Area (km)	Distance out of Flood Area (km)	Total Distance in Greater London (km)	Portion in Flood Risk
Railway	118	632	749	16%
Railway (tunnelled)	4	49	53	7%
Total	122	681	802	15%

Transport Infrastructure	Number in Flood Area	Number Outside Flood Area	Total Number in Greater London	Portion in Flood Risk
Rail Stations	47	285	332	14%

Environment Agency Flood Risk Zone 2				
Transport Network	Distance in Flood Zone (km)	Distance out of Flood Zone (km)	Total Distance in Greater London (km)	Portion in Flood Risk
Railway	103	647	749	14%
Railway (tunnelled)	7	46	53	13%
Total	110	692	802	14%

Transport Infrastructure	Number in Flood Zone	Number Outside Flood Zone	Total Number in Greater London	Portion in Flood Risk
Rail Stations	37	295	332	11%

Combined DL and EA flood area				
Transport Network	Distance in Flood Area (km)	Distance out of Flood Area (km)	Total Distance in Greater London (km)	Portion in Flood Risk
Railway (all)	217	585	802	27%

Transport Infrastructure	Number in Flood Area	Number Outside Flood Area	Total Number in Greater London	Portion in Flood Risk
Rail Stations	76	256	332	23%

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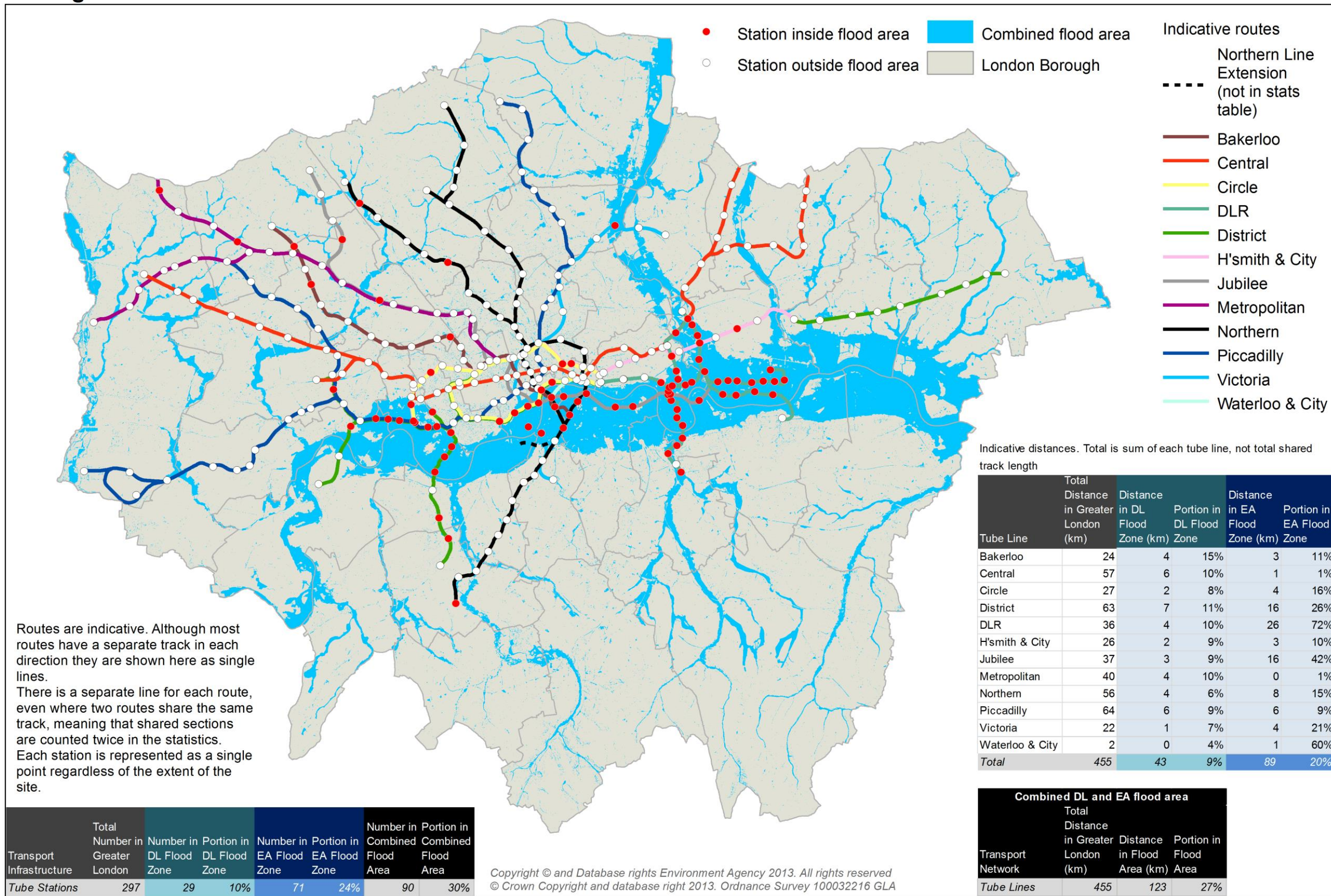
Schemes in planning or construction *

- Crossrail
- High Speed 2
- Crossrail 2 - metro
- Crossrail 2 - regional

* Not shown in stats table

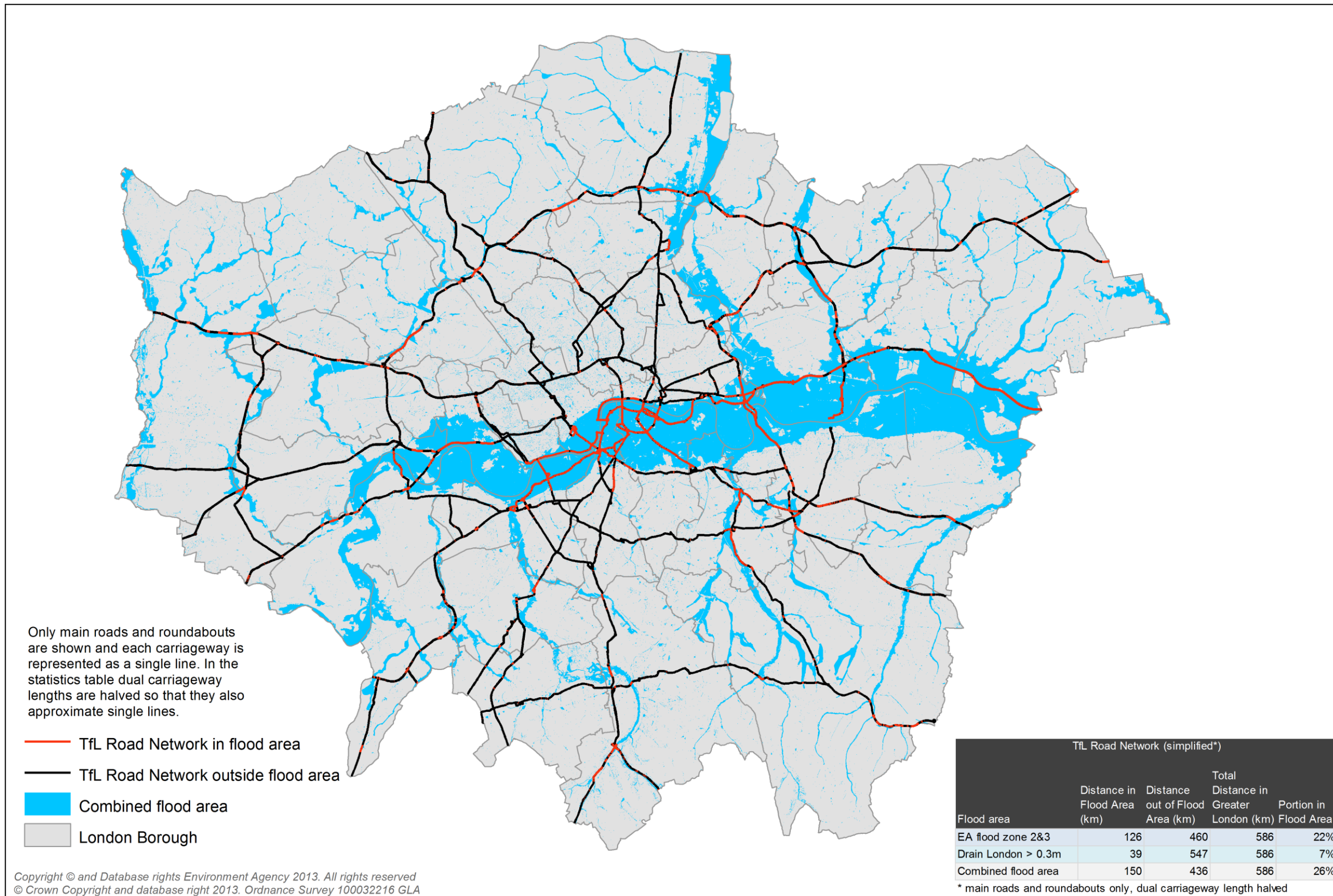
Map 6

Underground and DLR Networks and Flood Risk



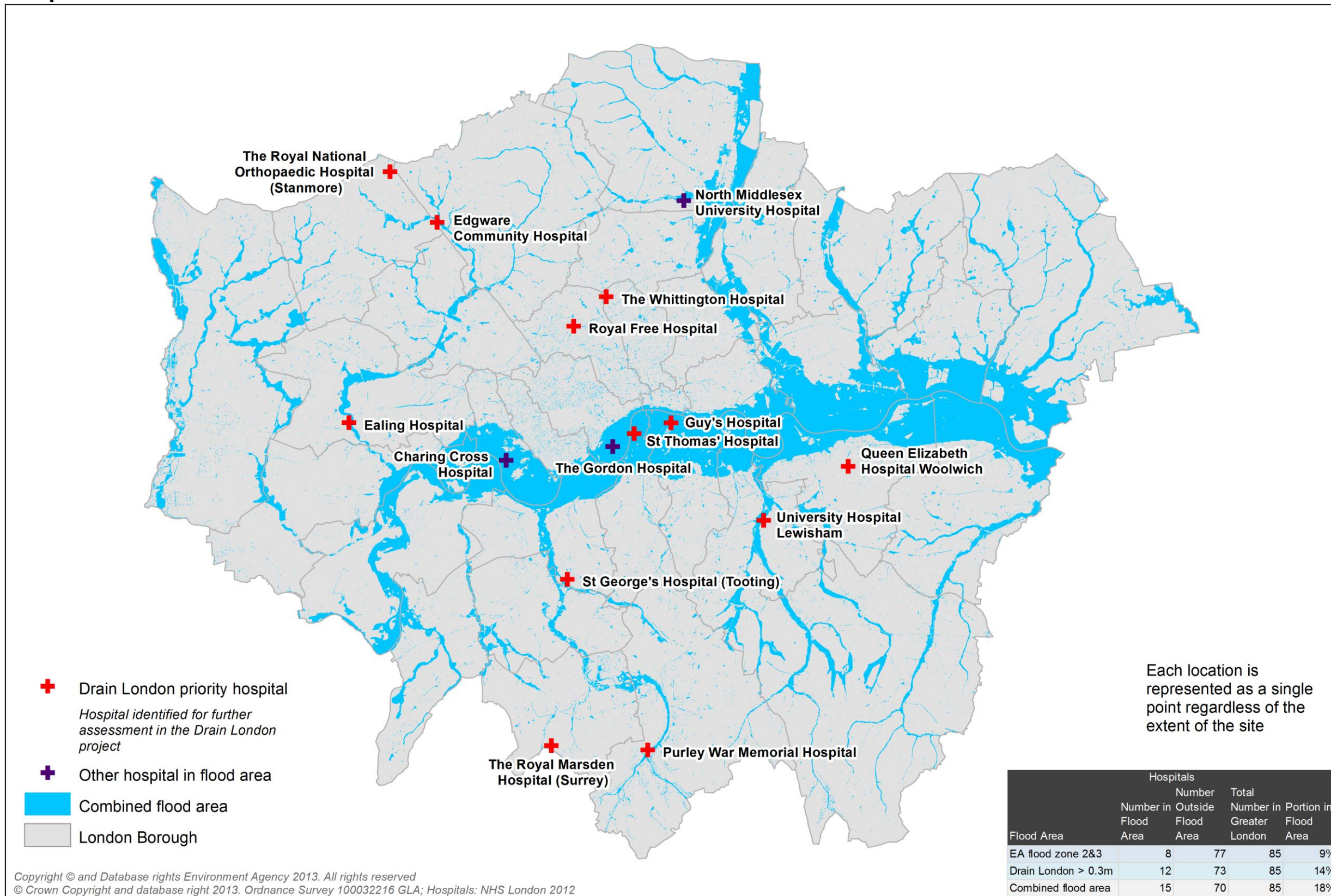
Map 7

TfL Road Network and Flood Risk



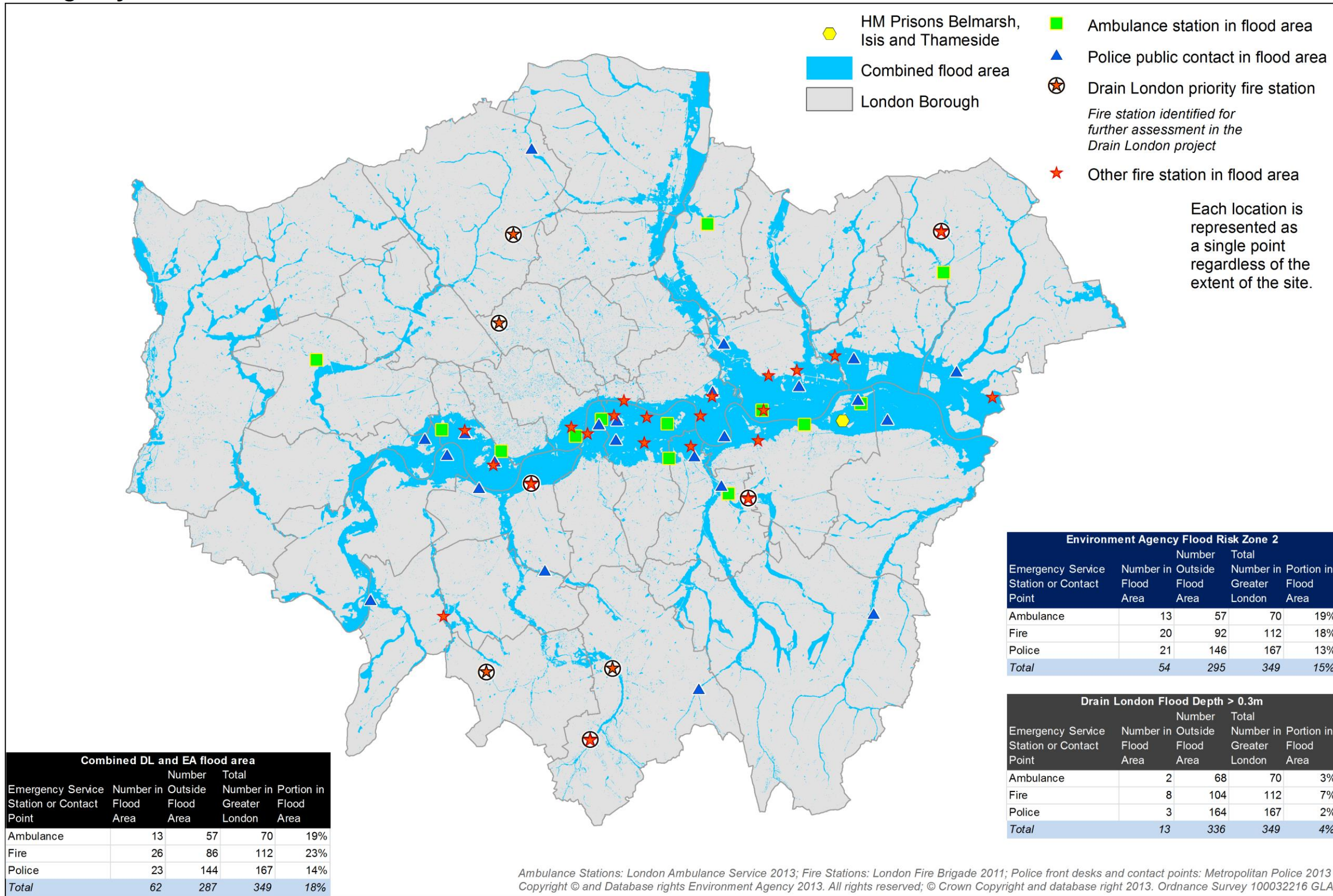
Map 8

Hospitals and Flood Risk



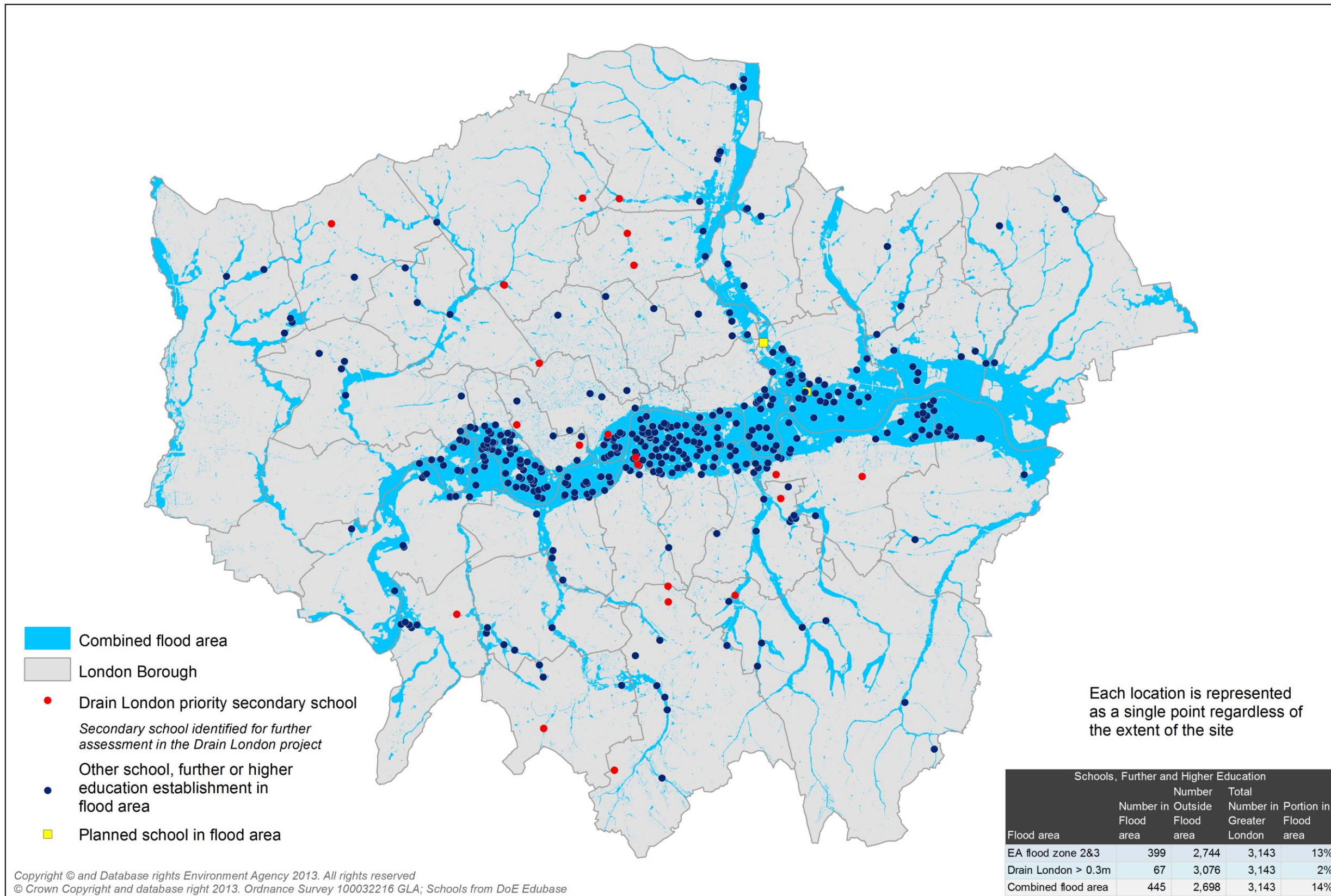
Map 9

Emergency Services and Flood Risk

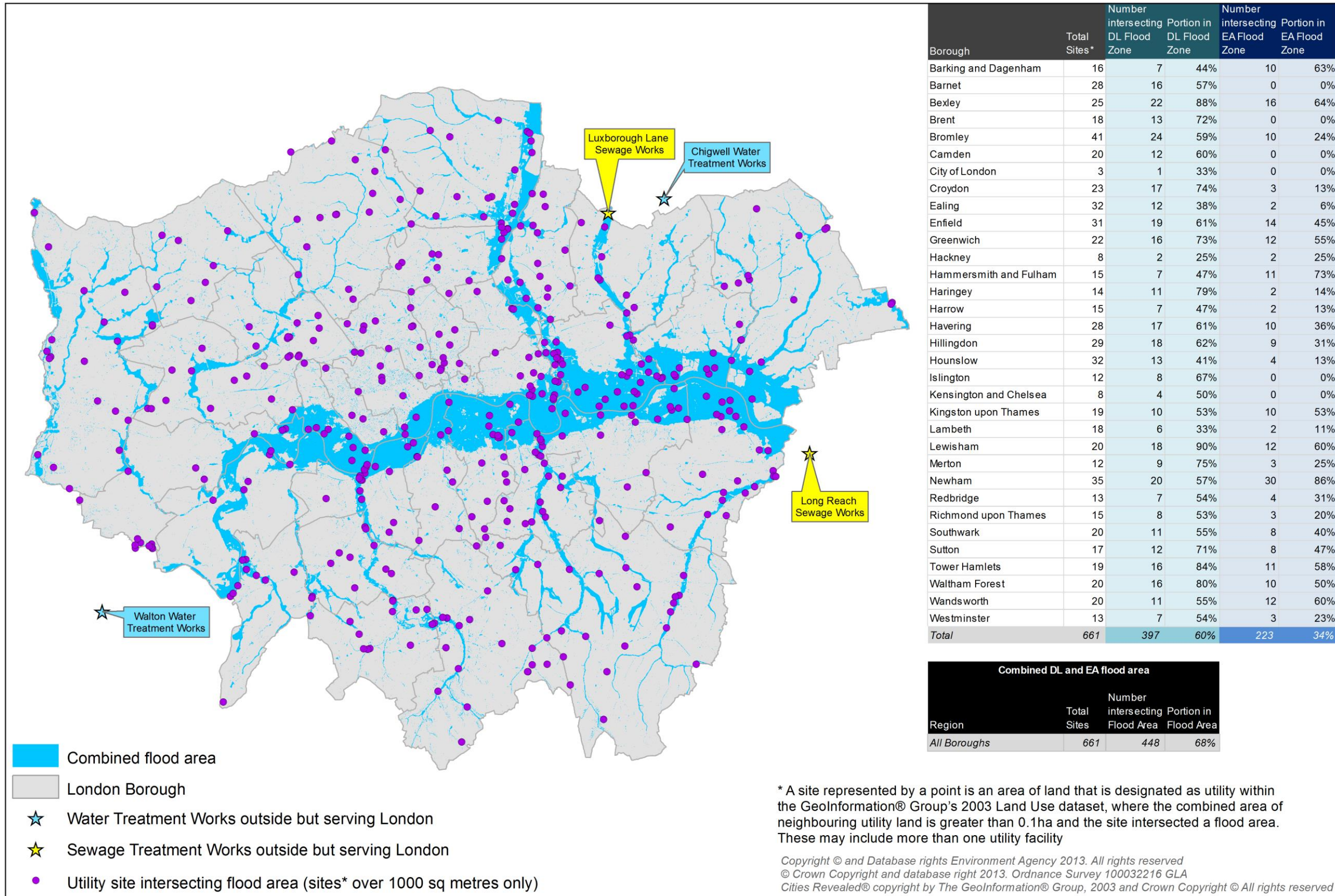


Map 10

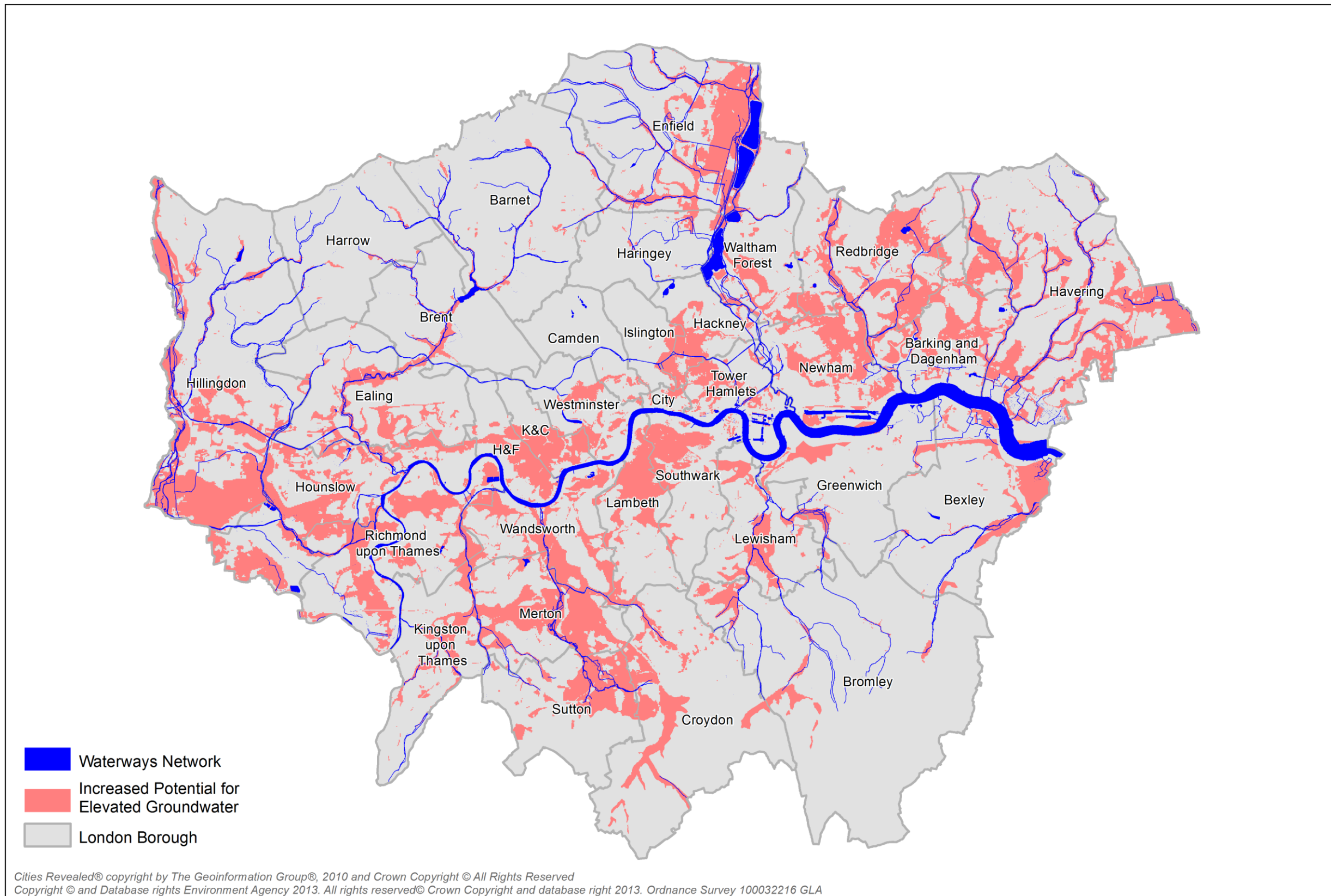
Schools and Flood Risk



Utilities Infrastructure and Flood Risk

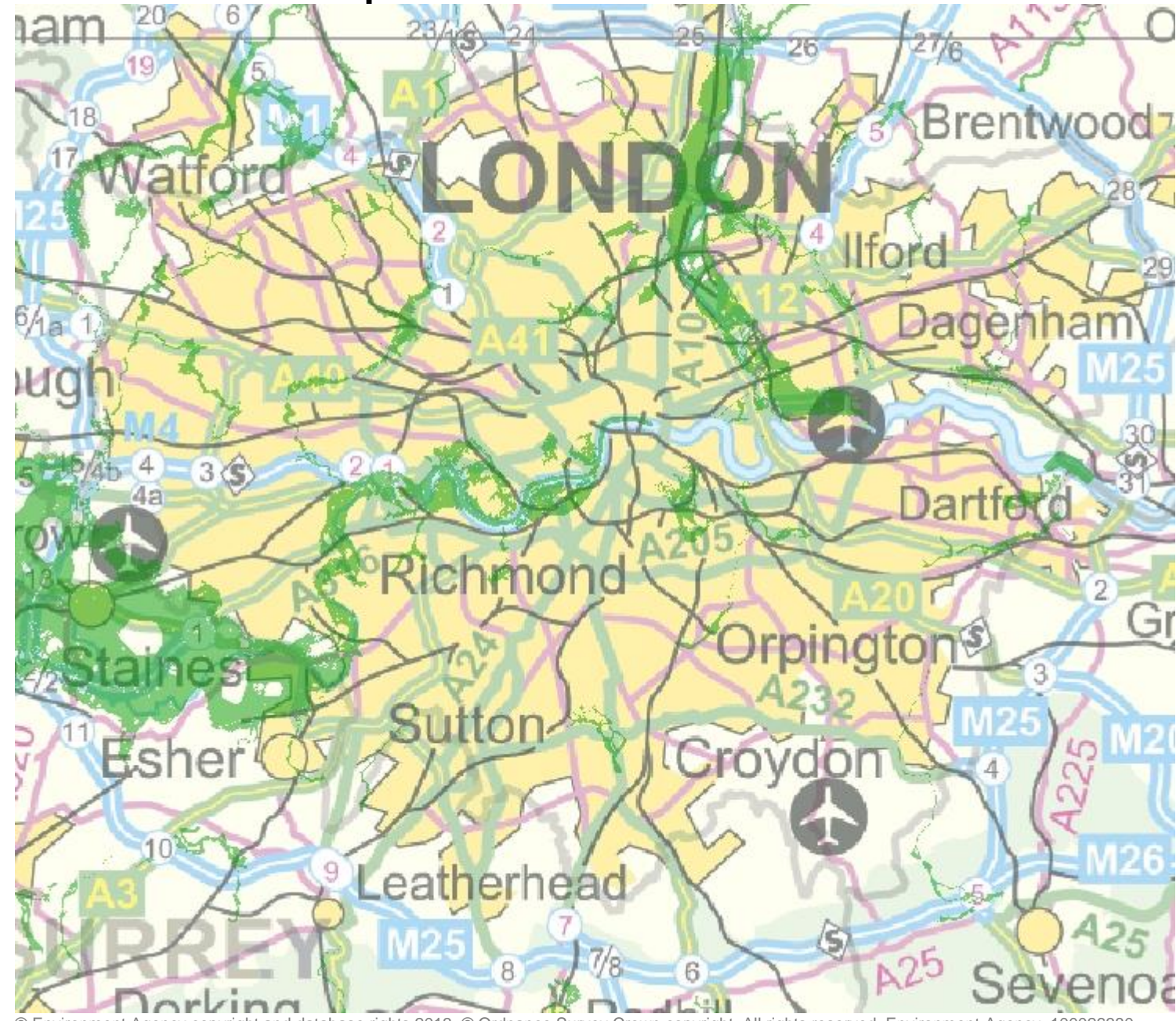


Increased Potential for Elevated Groundwater



Map 13

Reservoir Flood Map – London extract



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