

Appendix A - Mapping

List of Maps

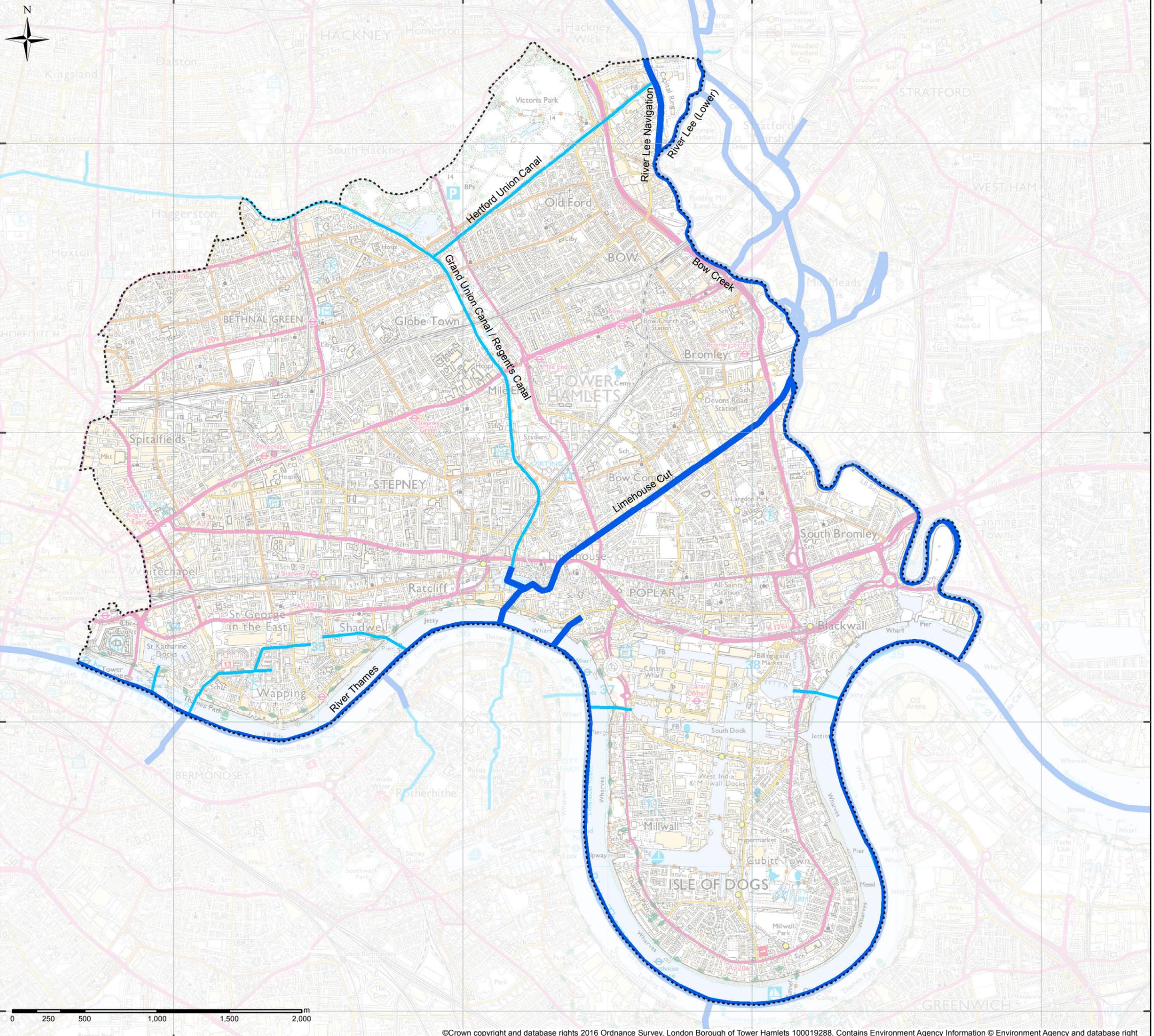
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LEGEND

-  Tower Hamlets Borough Boundary
-  Main River
-  Canal

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TOWER HAMLETS

Strategic Flood Risk Assessment

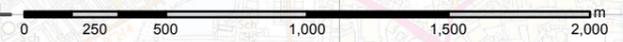


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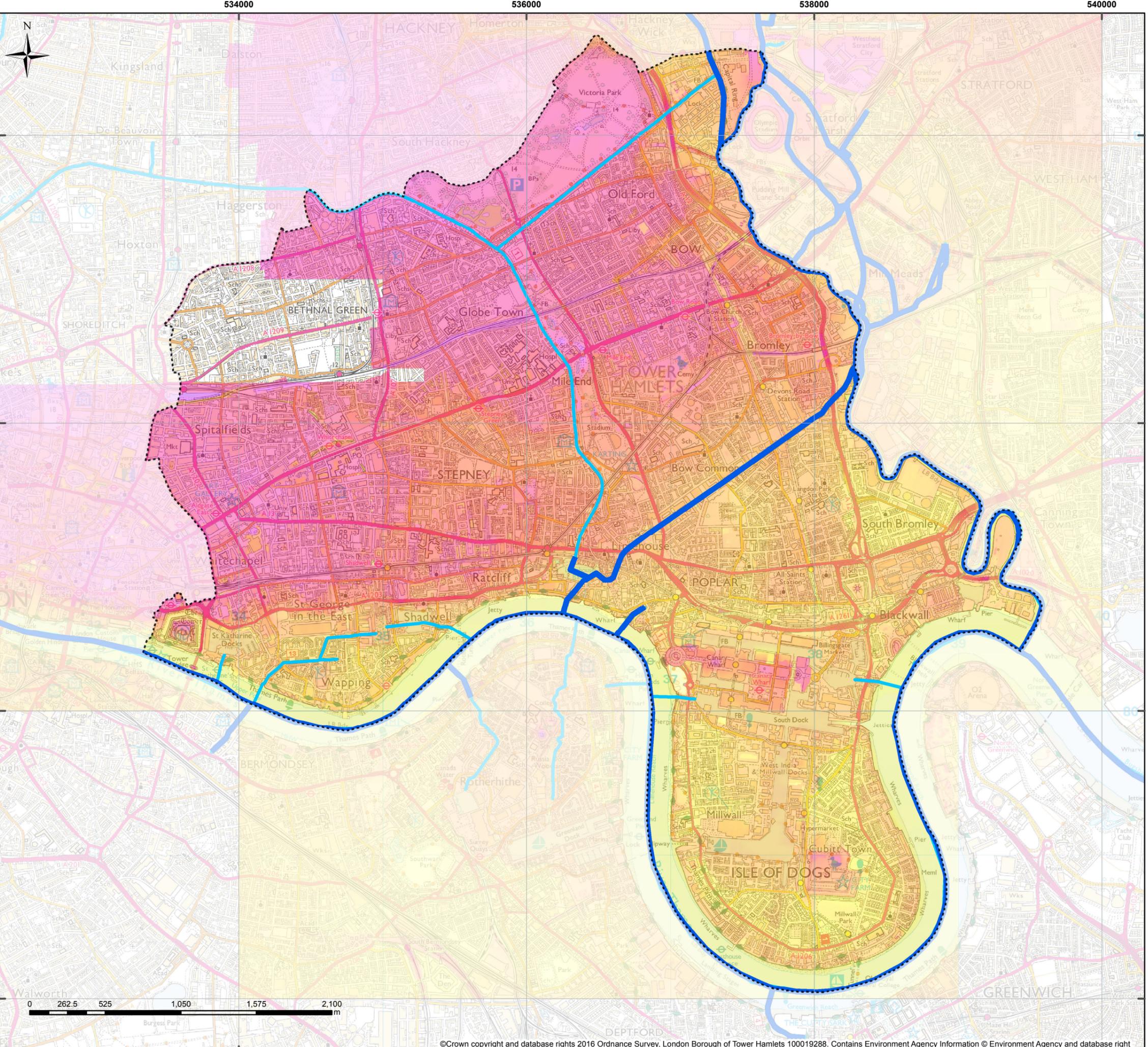
River Network

GIS: BN	Checked: AD	Approved: GP	Date: 17/08/2016
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Map 001 Scale - 1:25,000



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LEGEND

- Tower Hamlets Borough Boundary
- Main River
- Canal

Topography (m AOD)

- <0 to 3
- 3 to 10
- 10 to 17
- 17 to 26

NOTE:
Full LiDAR coverage for the borough is not available



TOWER HAMLETS
Strategic Flood Risk Assessment



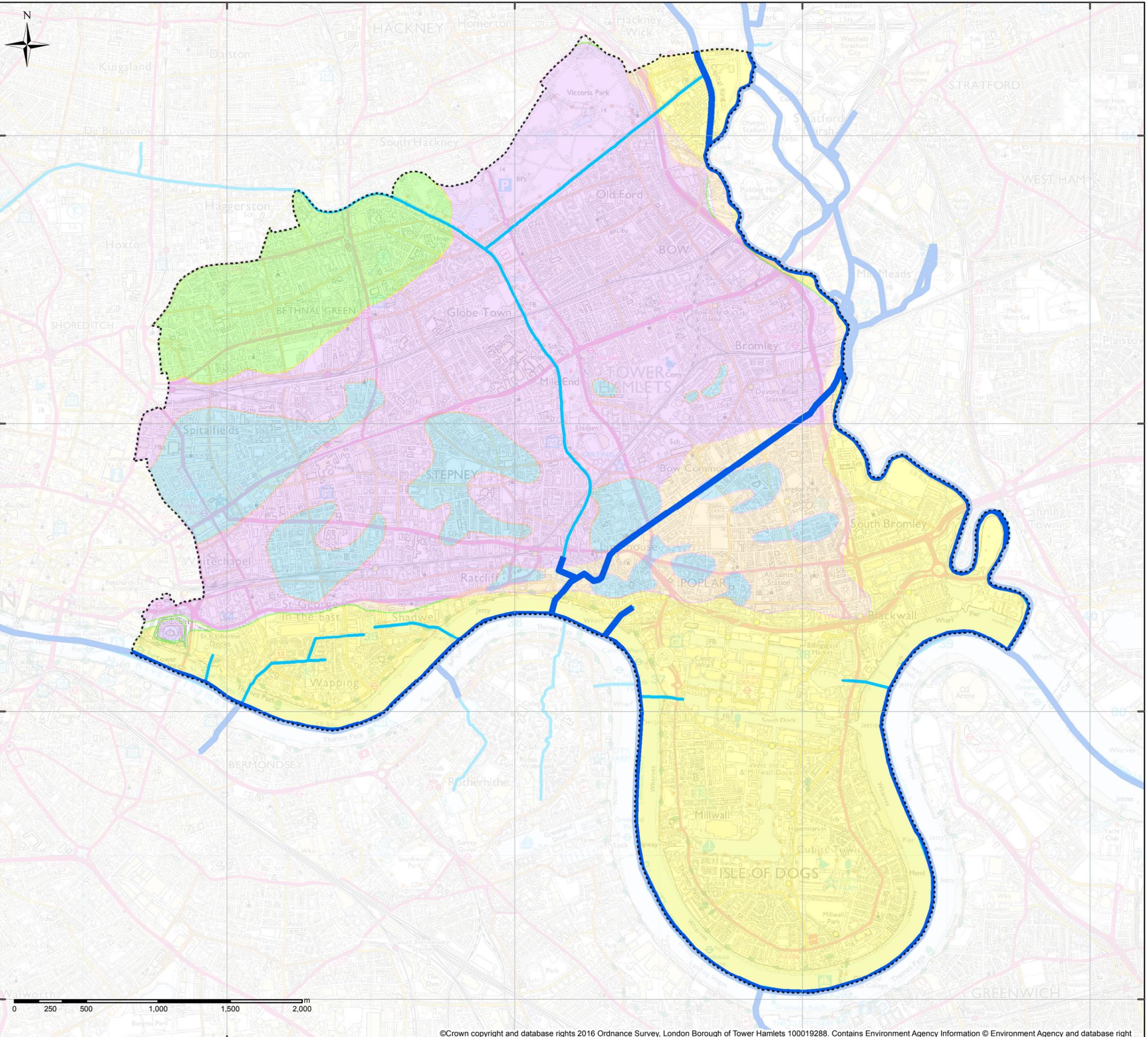
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Topography

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Map 002 Scale - 1:25,000

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LEGEND

- Tower Hamlets Borough Boundary
- Main River
- Canal

Superficial Geology

- Alluvium, Holocene to Recent
- Hackney Gravel
- Kempton Park Gravel
- Langley Silt
- Taplow Gravel



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Superficial Geology

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Map 003A Scale - 1:25,000

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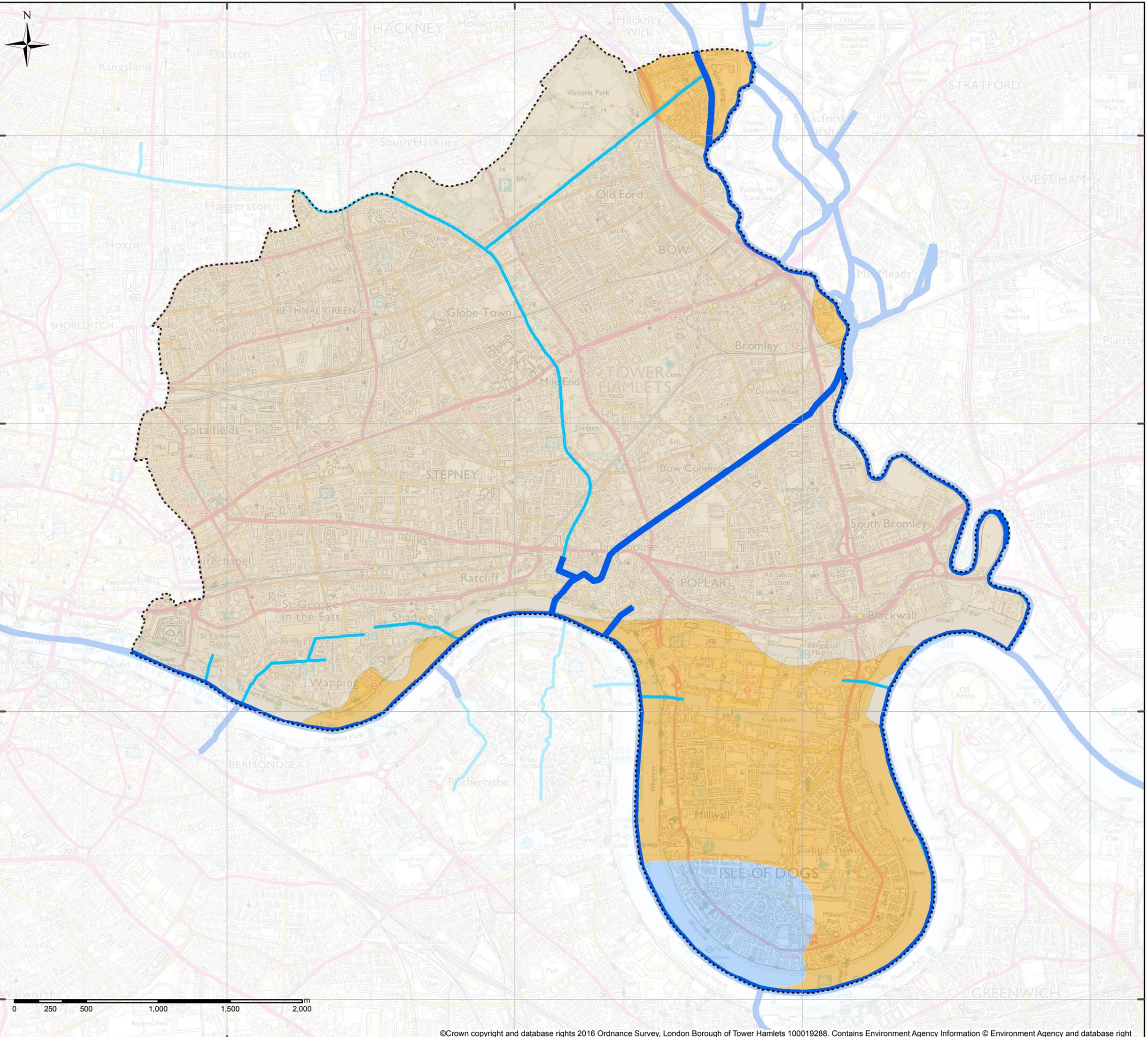
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LEGEND

- Tower Hamlets Borough Boundary
- Main River
- Canal

Bedrock Geology

- Lambeth Group
- London Clay Formation
- Thanet Sand Formation, Tertiary Age

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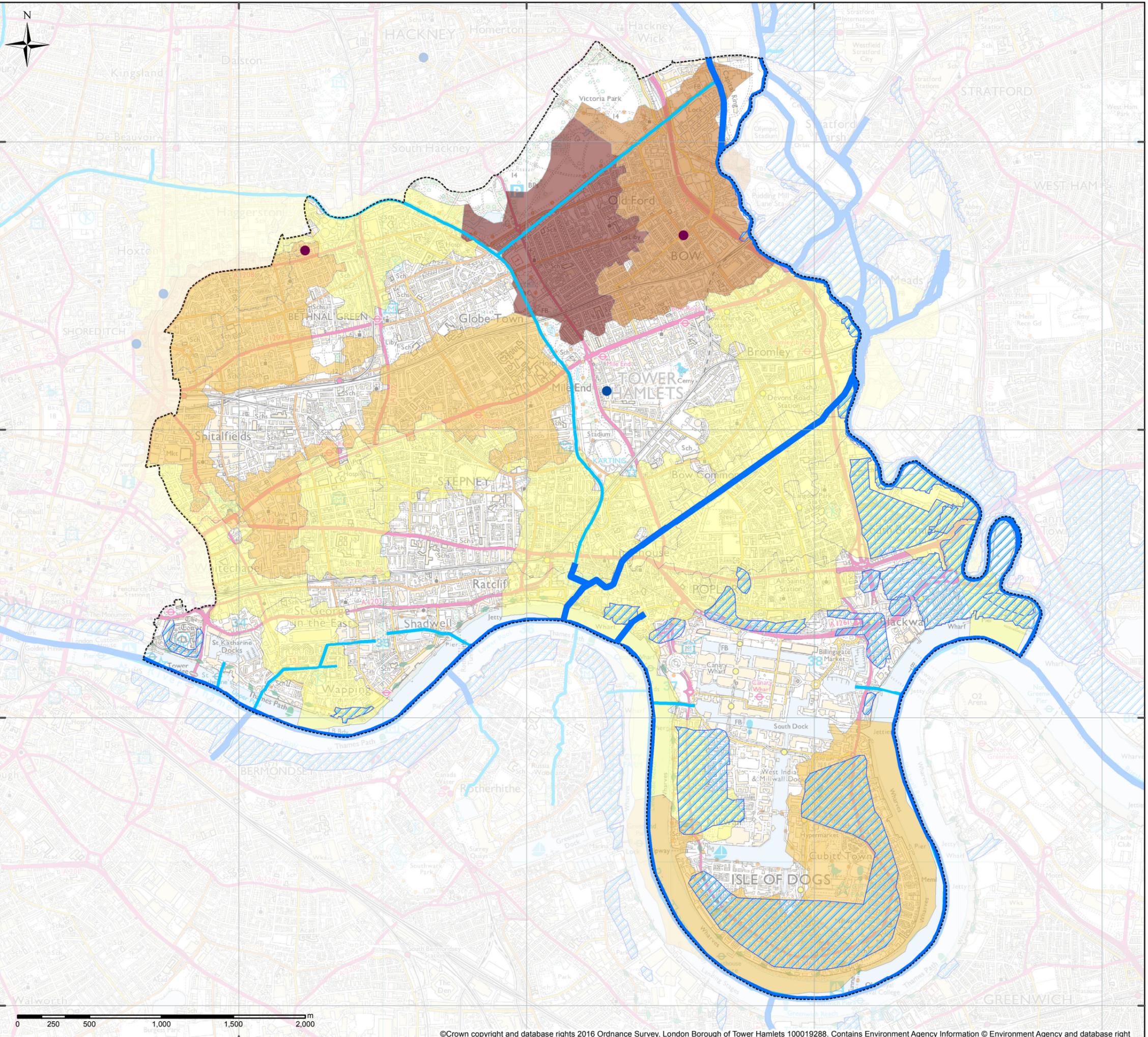
Bedrock Geology

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Map 003B Scale - 1:25,000

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LEGEND

- Tower Hamlets Borough Boundary
- Main River
- Canal
- Recorded Flood Outlines
- Groundwater Flooding Incidents
- Surface Water Flooding Incidents

Total Properties Flooded by Overloaded Sewers by Postcode Area

Total

- 1 - 2
- 3 - 6
- 7 - 10
- 11 - 14



TOWER HAMLETS
Strategic Flood Risk Assessment



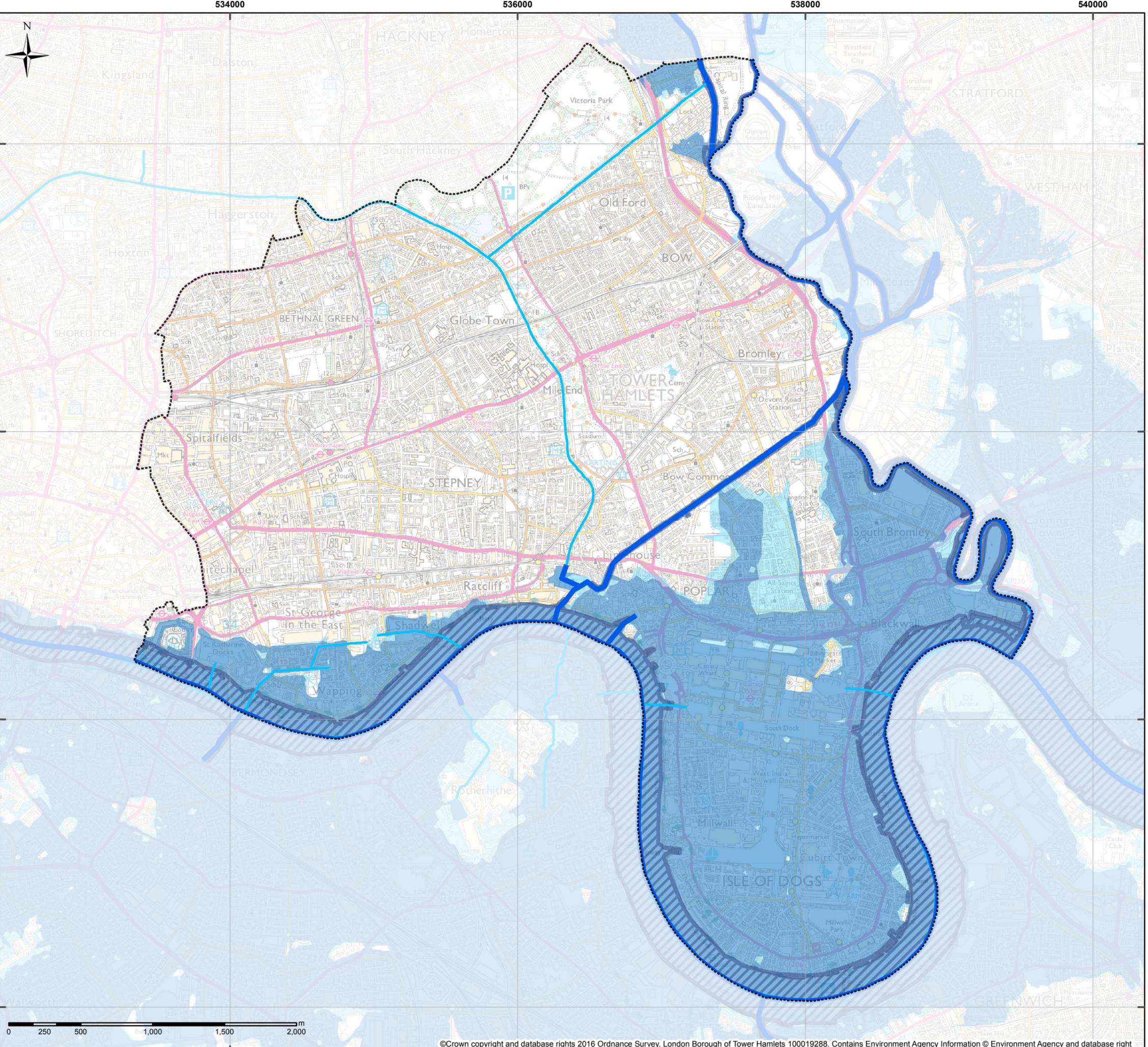
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Flooding History

GIS: BN	Checked: MD	Approved: GP	Date: 09/06/2016
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Map 004 Scale - 1:25,000

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LEGEND

- Tower Hamlets Borough Boundary
- Main River
- Canal

FLOOD ZONES

- Flood Zone 2
- Flood Zone 3a
- Flood Zone 3b



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Strategic Flood Risk Assessment



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**Flood Risk from
Rivers and the Sea**

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Map 005 Scale - 1:25,000



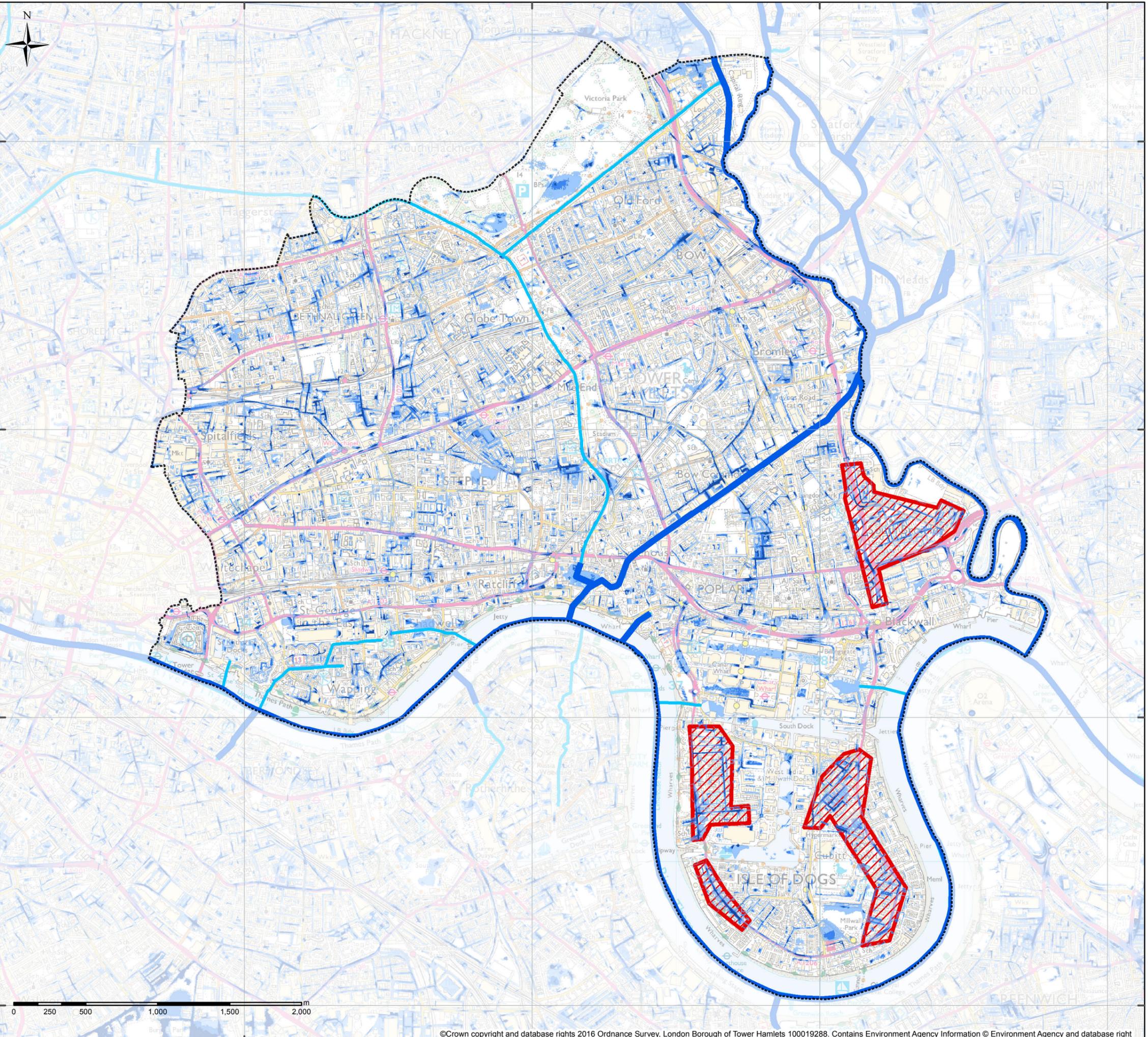
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- LEGEND**
-  Tower Hamlets Borough Boundary
 -  Main River
 -  Canal
 -  High Risk of Flooding (3.3% AEP)
 -  Medium Risk of Flooding (1% AEP)
 -  Low Risk of Flooding (0.1% AEP)
 -  Critical Drainage Areas



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Strategic Flood Risk Assessment



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Flood Map for Surface Water

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Map 006 Scale - 1:25,000

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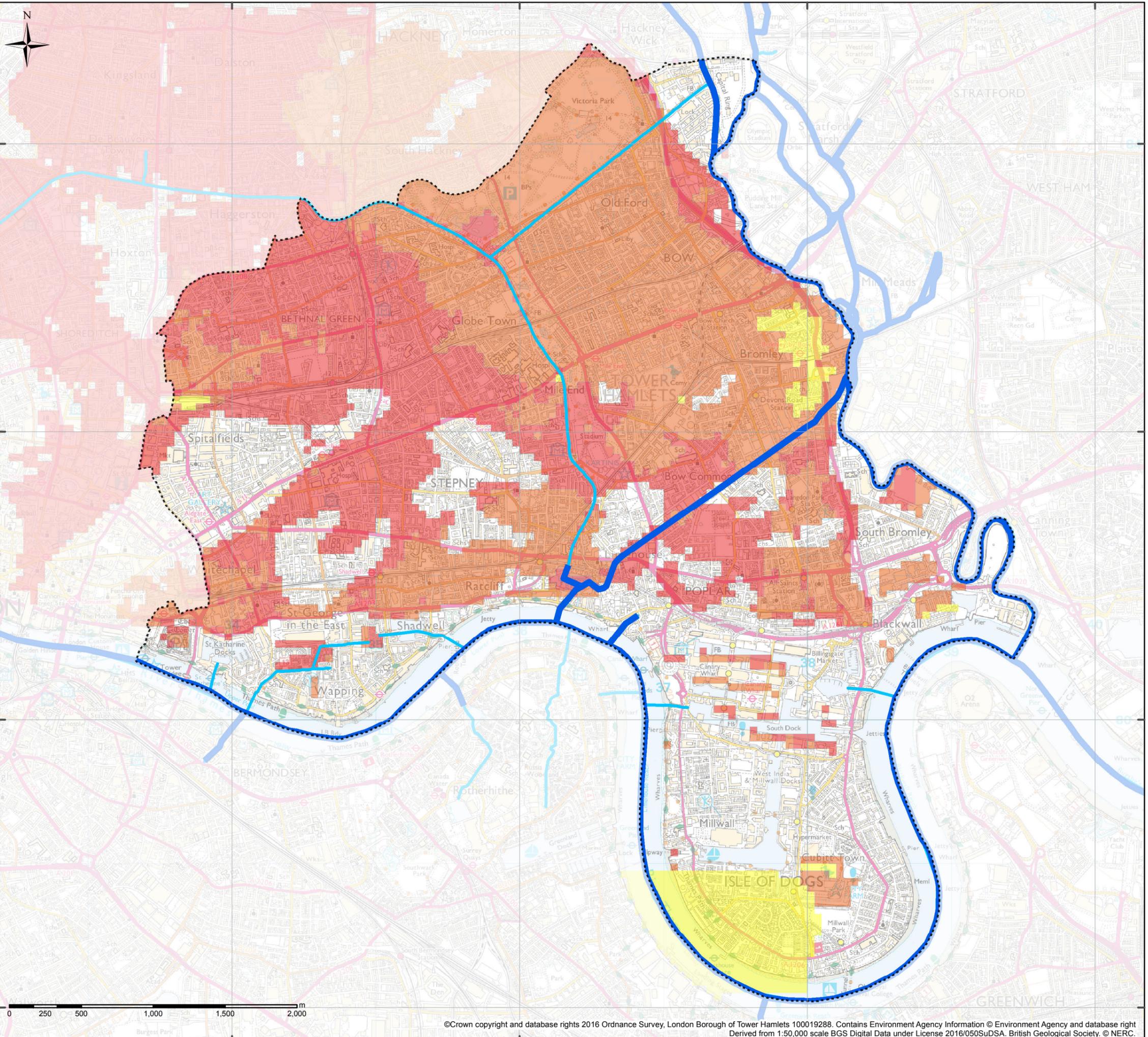
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LEGEND

Tower Hamlets Borough Boundary

EA Main River

Canal

Risk of Groundwater Flooding

Limited potential for groundwater flooding

Potential for groundwater flooding below ground level

Potential for groundwater flooding to occur at surface

NOTE:

This map provides only a high level indication of groundwater flooding susceptibility, based on generic broad scale assumptions. This data should not be used in isolation to indicate risk of groundwater flooding, but should be considered in conjunction with other relevant information and site-specific investigation.



TOWER HAMLETS

Strategic Flood Risk Assessment



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Areas at Risk of Flooding from Groundwater

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Map 007

Scale - 1:25,000



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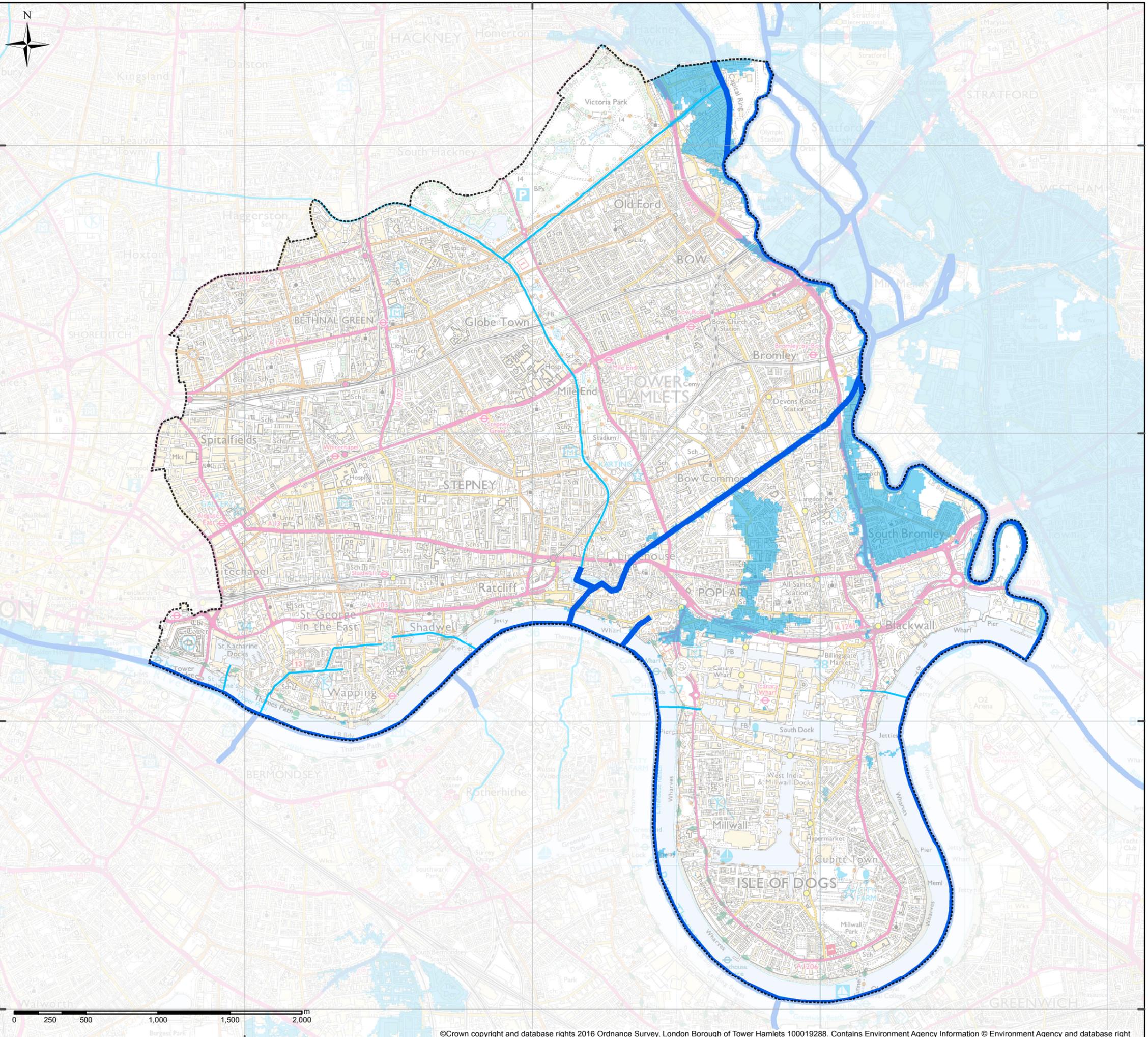
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LEGEND

-  Tower Hamlets Borough Boundary
-  Main River
-  Canal
-  Risk of Flooding From Reservoirs

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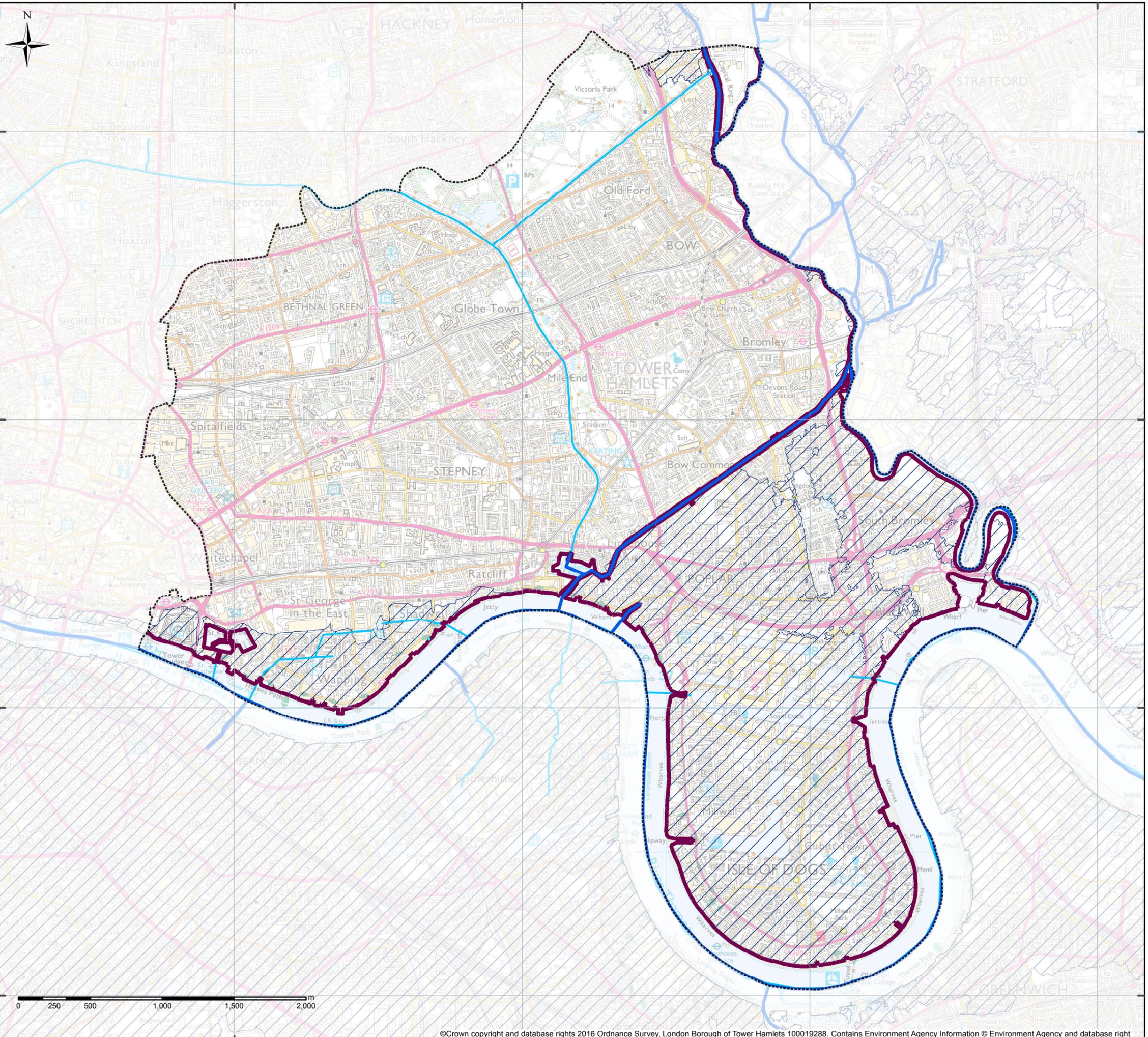
Flood Risk From Reservoirs

GIS: BN	Checked: AD	Approved: GP	Date: 09/06/2016
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Map 008

Scale - 1:25,000

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LEGEND

- Tower Hamlets Borough Boundary
- Main River
- Canal
- Flood Defence
- Areas Benefitting From Flood Defences



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Strategic Flood Risk Assessment



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Flood Risk Management Infrastructure

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Map 009 **Scale - 1:25,000**



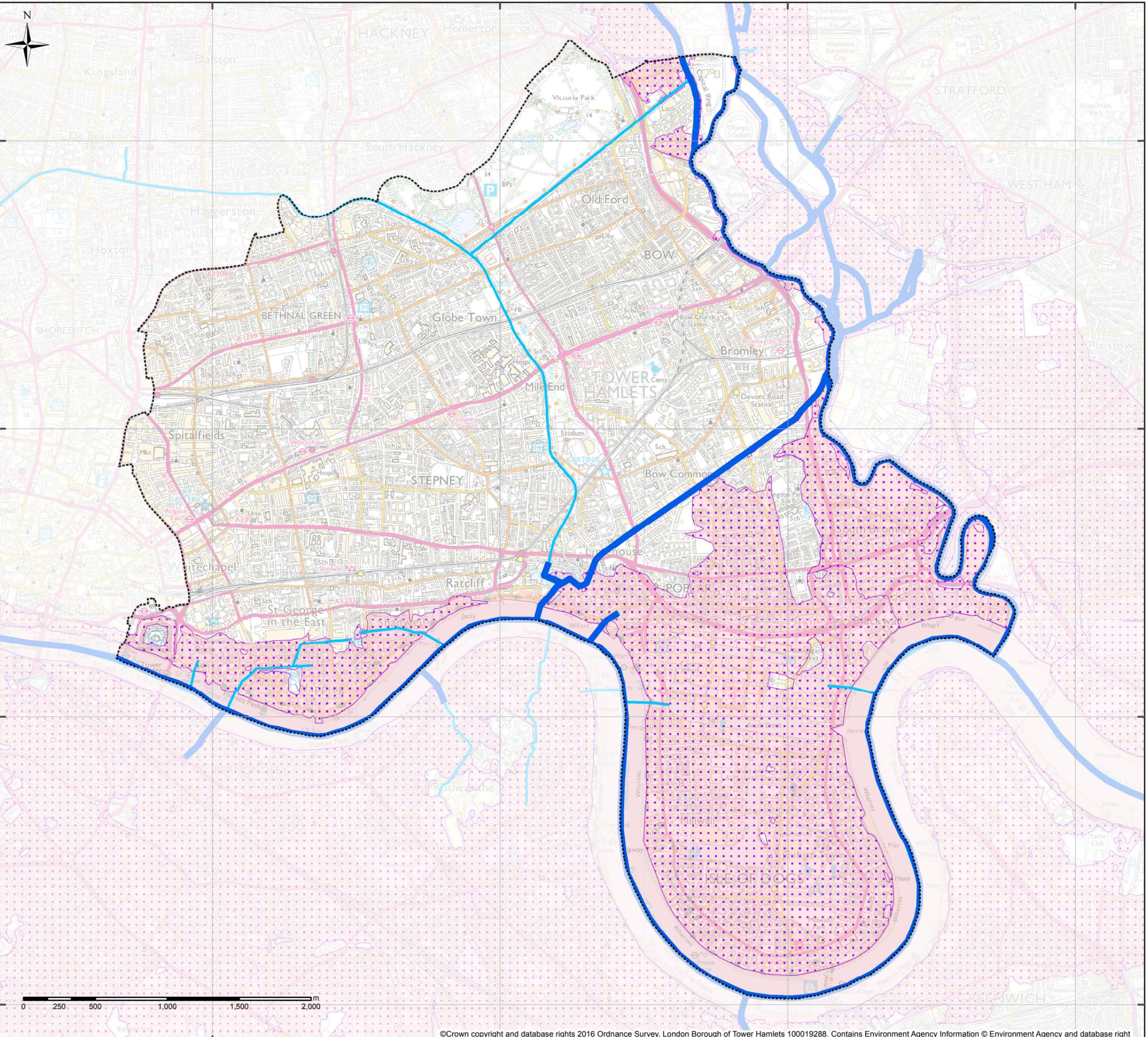
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LEGEND

-  Tower Hamlets Borough Boundary
-  Main River
-  Canal
-  Flood Warning Area
-  Flood Alert Area

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TOWER HAMLETS

Strategic Flood Risk Assessment



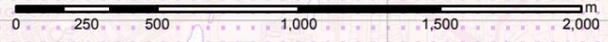
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Existing Flood Warning Areas

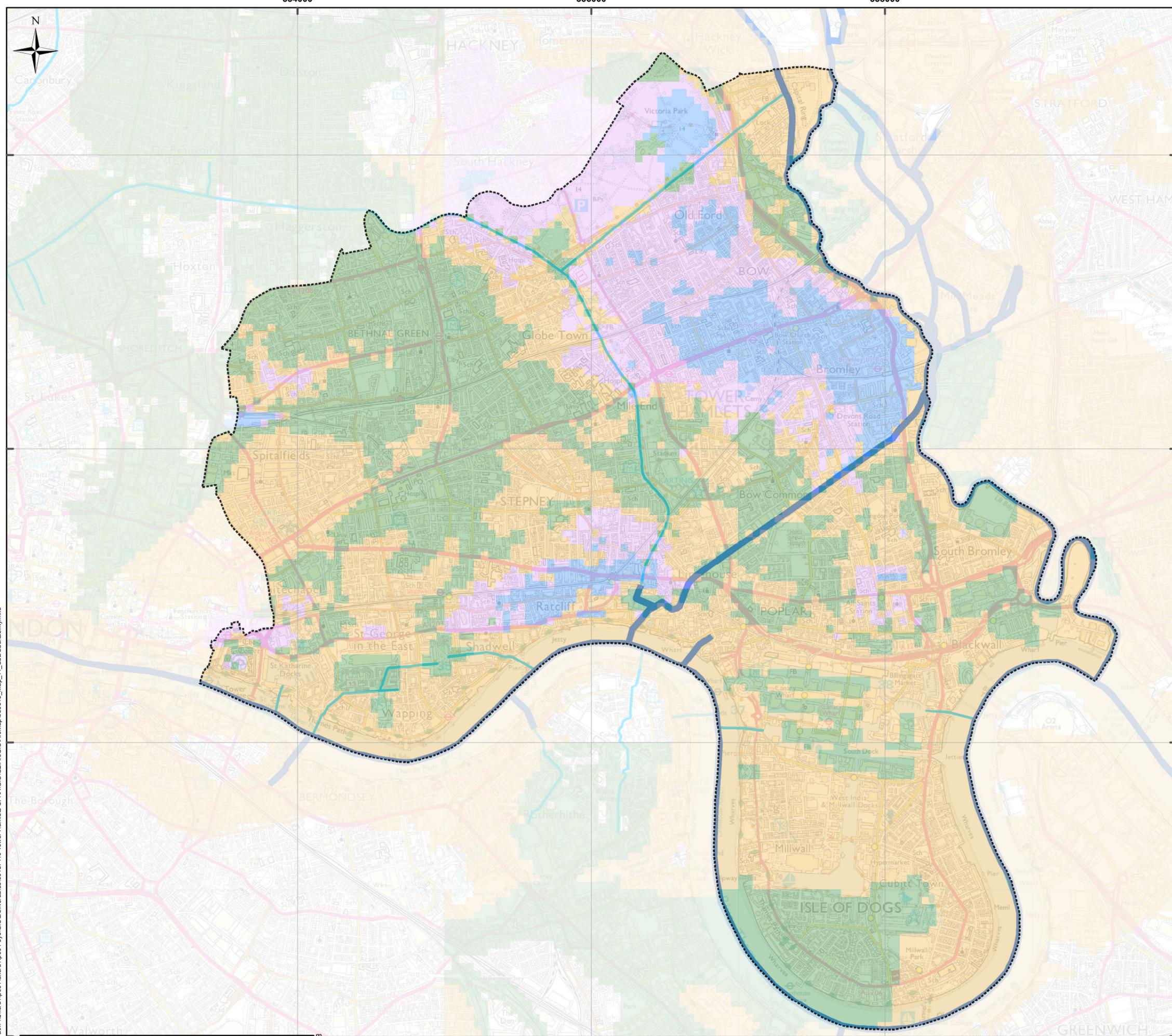
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Map 010

Scale - 1:25,000



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LEGEND

- Tower Hamlets Borough Boundary
- Main River
- Canal

SuDS Suitability

- Highly Suitable
- Probably Suitable
- Potentially Suitable for Bespoke Designs
- Unlikely to be Suitable



TOWER HAMLETS
Strategic Flood Risk Assessment



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SuDS Infiltration Suitability

GIS: BN	Checked: AD	Approved: GP	Date: 09/06/2016
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Map 011	Scale - 1:25,000
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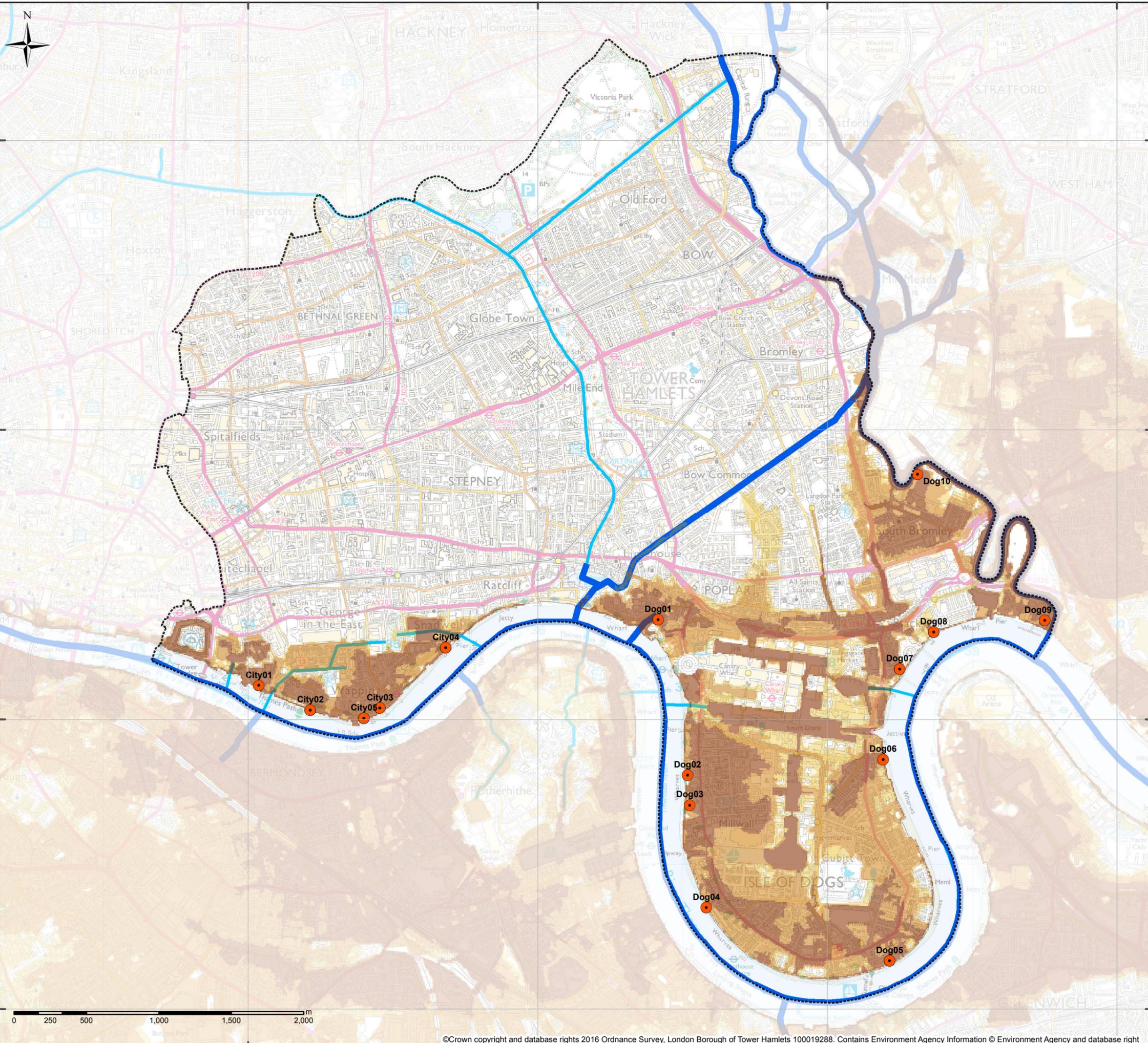
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LEGEND

- Tower Hamlets Borough Boundary
- Main River
- Canal
- Breach Locations

Maximum Predicted Flood Extents

- Year 2014
- Year 2065
- Year 2100

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TOWER HAMLETS
Strategic Flood Risk Assessment

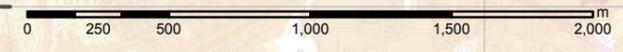


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Breach Assessment - Maximum Predicted Flood Extents

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Map 012A Scale - 1:25,000



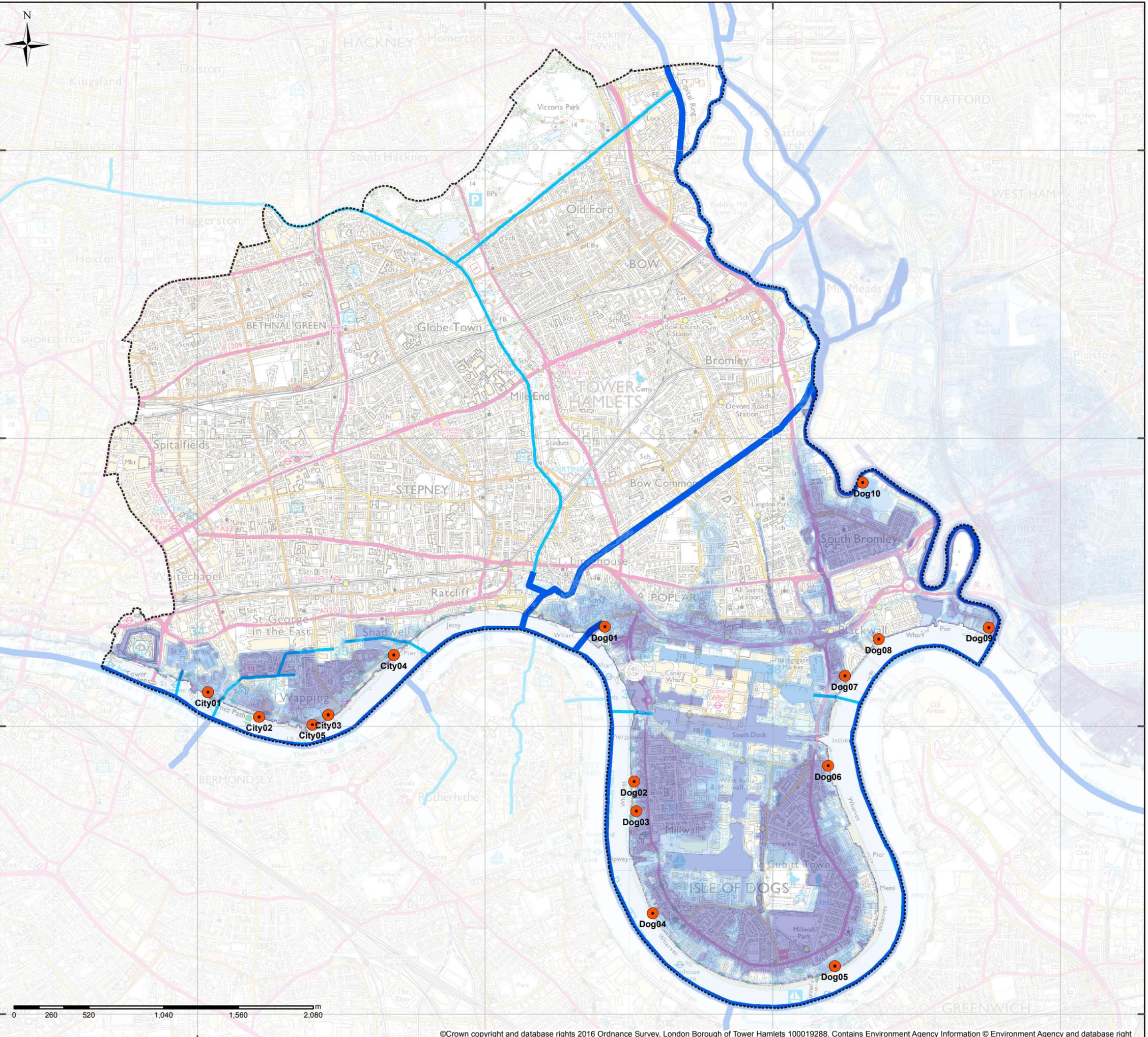
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LEGEND

- Tower Hamlets Borough Boundary
- Main River
- Canal
- Breach Locations

Breach Assessment

Year 2100 Maximum Predicted Flood Depth (m)

- 0 - 0.25
- 0.25 - 1.00
- 1.00 - 1.50
- 1.50 - 2.00
- > 2.00

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**Breach Assessment - Year 2100
Maximum Predicted Flood Depth**

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Map 012B Scale - 1:25,000



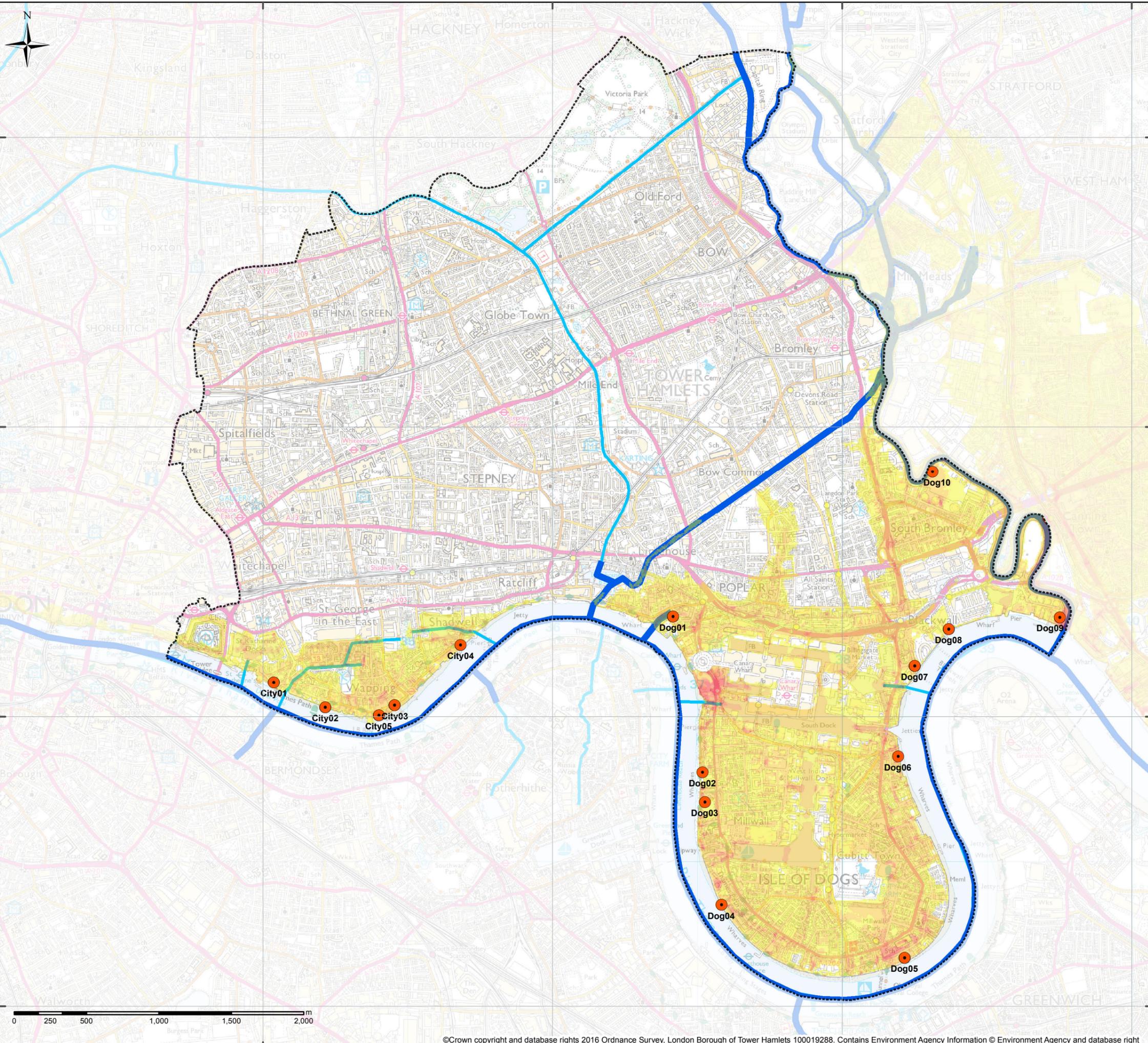
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LEGEND

- Tower Hamlets Borough Boundary
- Main River
- Canal
- Breach Locations

Breach Assessment

Year 2100 Maximum Predicted Flood Velocity (m/s)

- 0 - 0.3
- 0.3 - 1.0
- 1.0 - 1.5
- 1.5 - 2.5
- > 2.5

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**Breach Assessment - Year 2100
Maximum Predicted Flood Velocity**

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Map 012C Scale - 1:25,000

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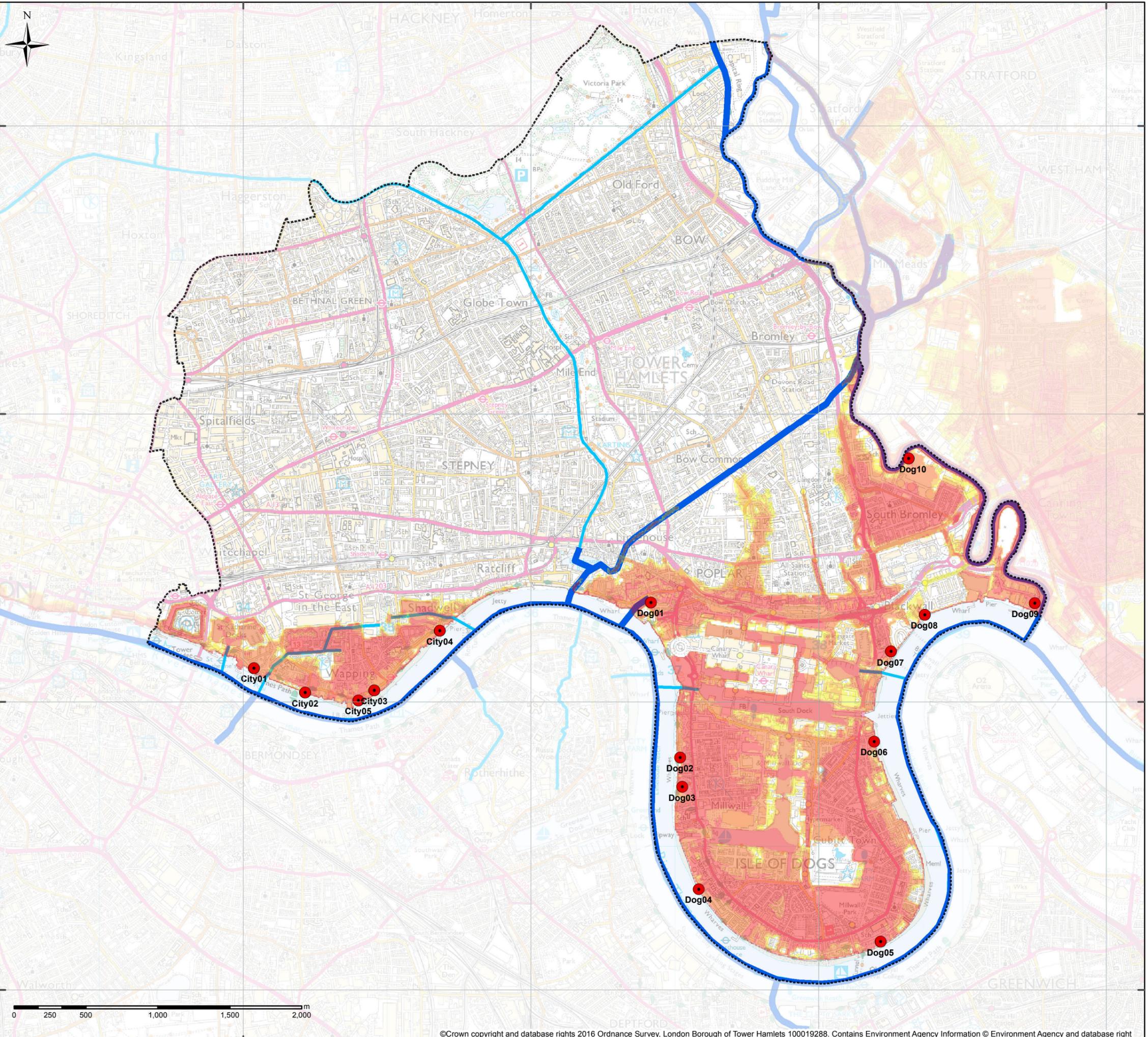
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LEGEND

- Tower Hamlets Borough Boundary
- Main River
- Canal
- Breach Locations

Breach Assessment

Year 2100 Maximum Predicted Flood Hazard

- > 0.75 (Low Hazard)
- 0.75 - 1.25 (Danger for Some)
- 1.25 - 2 (Danger for Most)
- > 2.0 (Danger for All)

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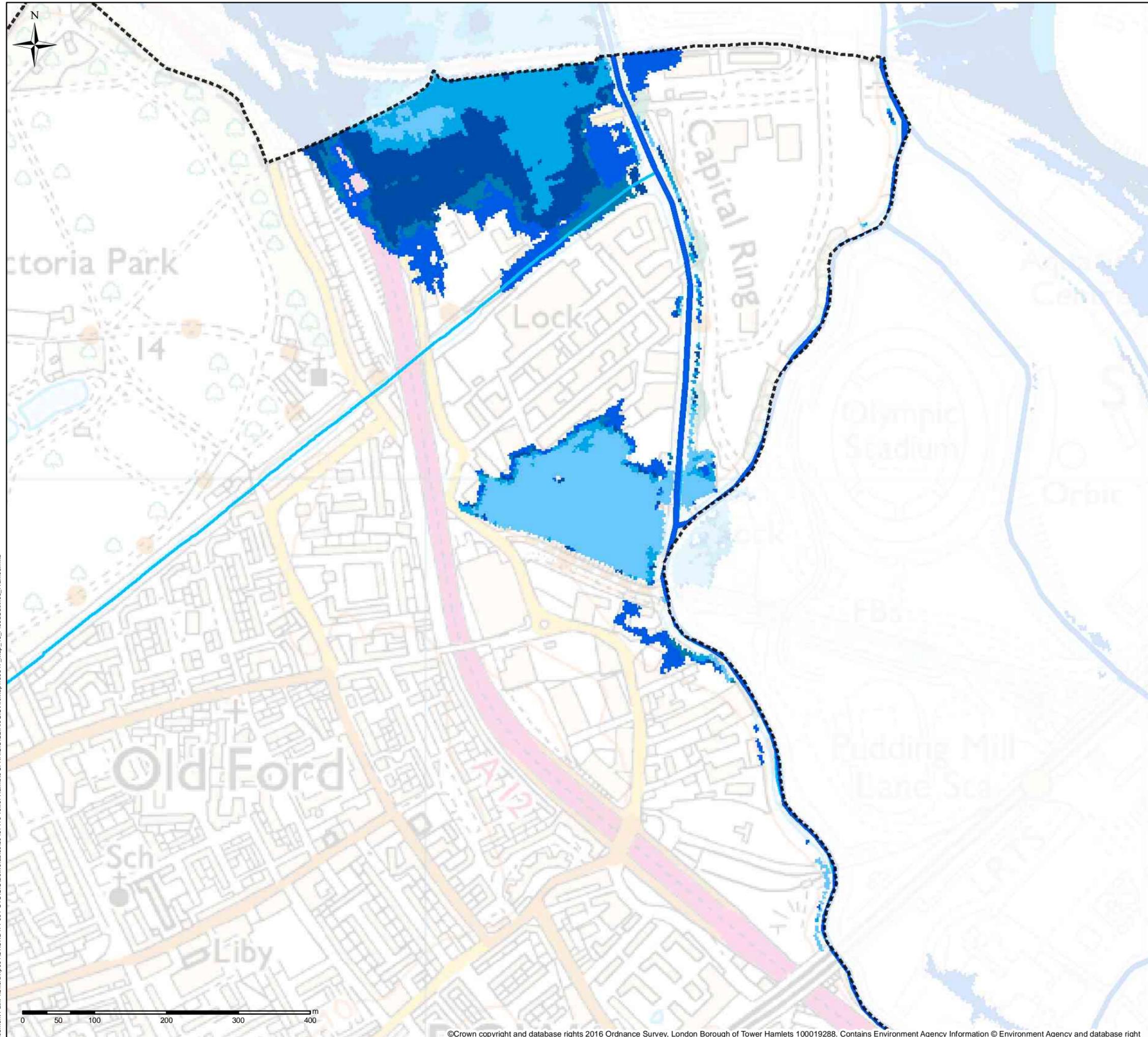
**Breach Assessment - Year 2100
Maximum Predicted Flood Hazard**

GIS: BN	Checked: AD	Approved: GP	Date: 28/09/2016
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Map 012D Scale - 1:25,000

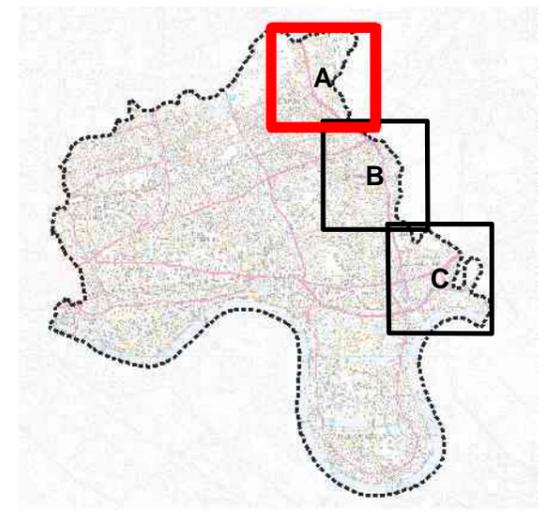
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LEGEND

-  Tower Hamlets Borough Boundary
-  Main River
-  Canal
-  1% AEP flood extent
-  1% AEP + 15% CC flood extent
-  1% AEP + 35% CC flood extent
-  1% AEP + 70% CC flood extent
-  0.1% AEP flood extent



TOWER HAMLETS

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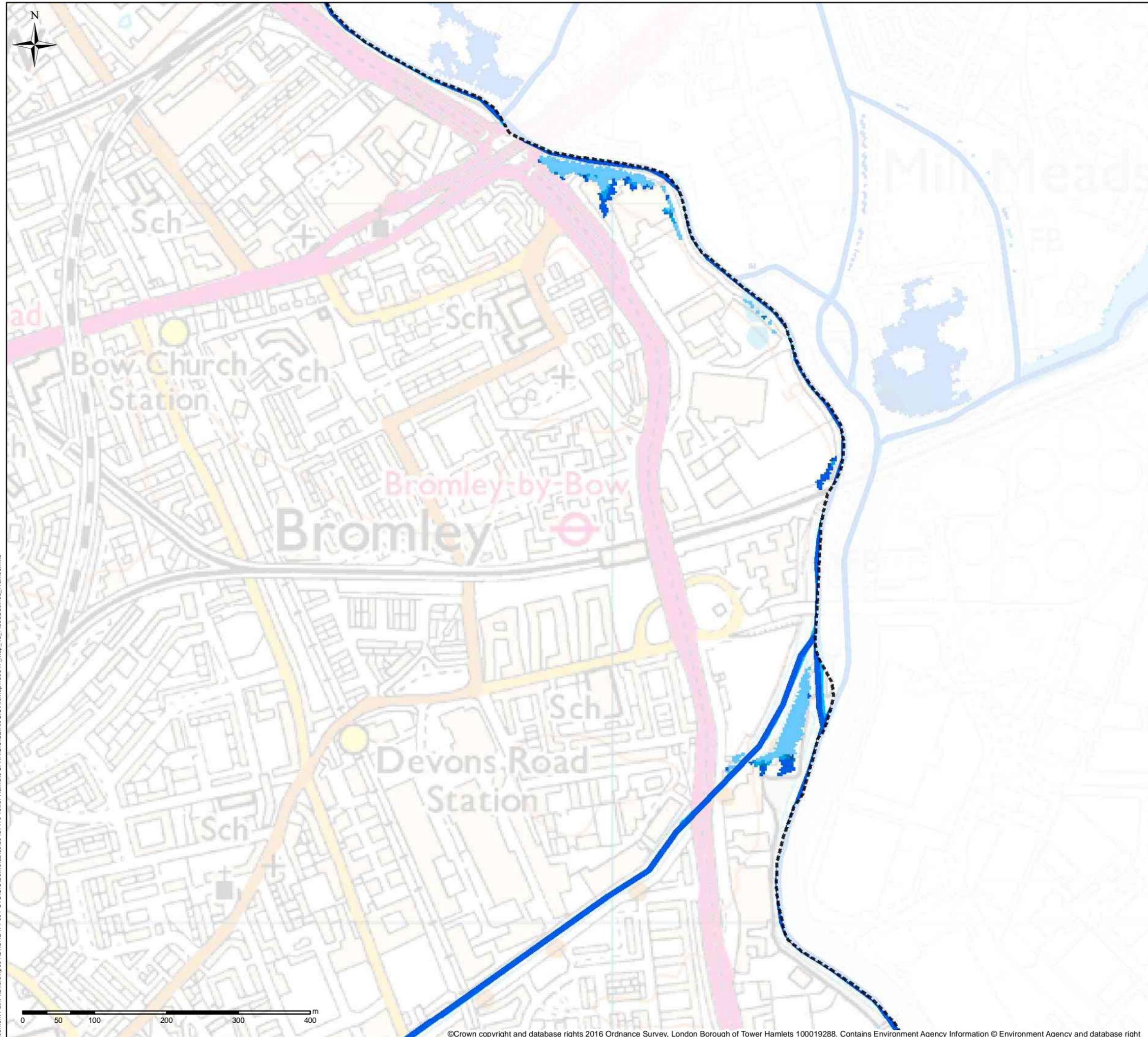
**Modelled Fluvial Flood Outlines
- Defended Scenario**

GIS: BN	Checked: MD	Approved: GP	Date: 21/06/2017
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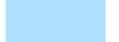
Map 013A

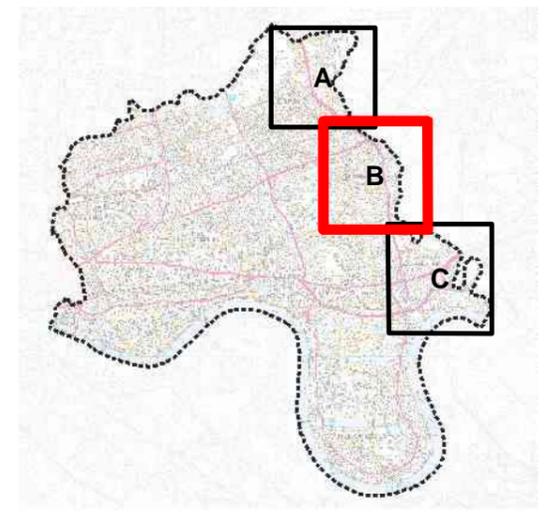
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LEGEND

-  Tower Hamlets Borough Boundary
-  Main River
-  Canal
-  1% AEP flood extent
-  1% AEP + 15% CC flood extent
-  1% AEP + 35% CC flood extent
-  1% AEP + 70% CC flood extent
-  0.1% AEP flood extent



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Strategic Flood Risk Assessment

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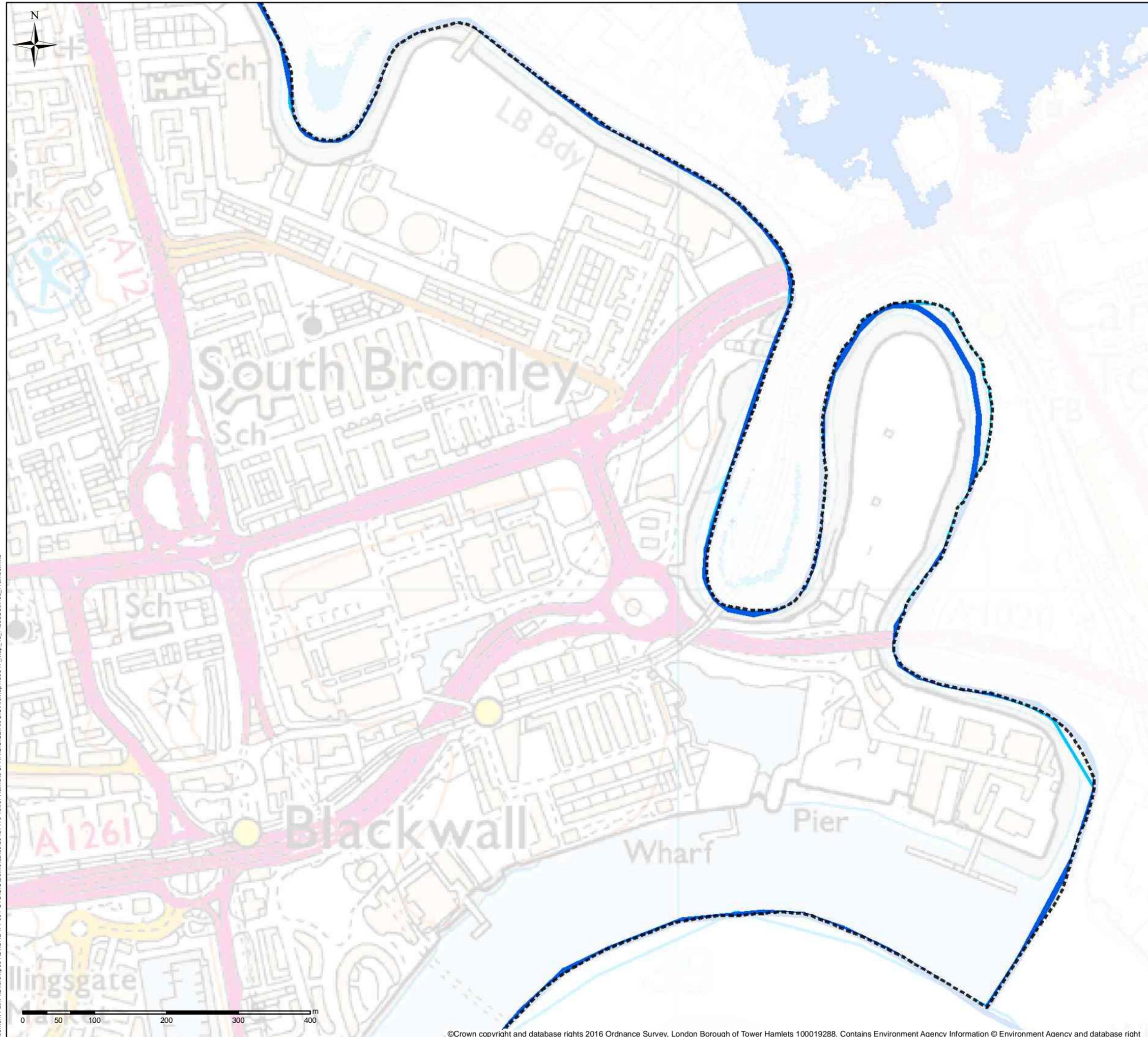
**Modelled Fluvial Flood Outlines
- Defended Scenario**

GIS: BN	Checked: MD	Approved: GP	Date: 21/06/2017
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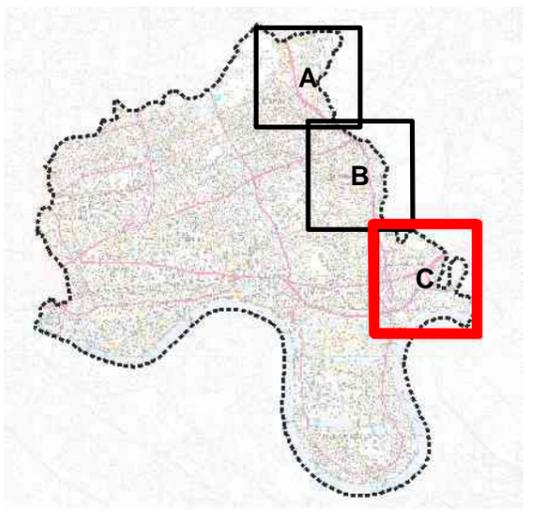
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- LEGEND**
- Tower Hamlets Borough Boundary
 - Main River
 - Canal
 - 1% AEP flood extent
 - 1% AEP + 15% CC flood extent
 - 1% AEP + 35% CC flood extent
 - 1% AEP + 70% CC flood extent
 - 0.1% AEP flood extent



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Strategic Flood Risk Assessment



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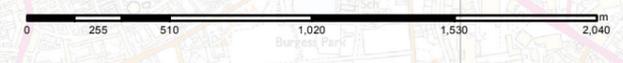
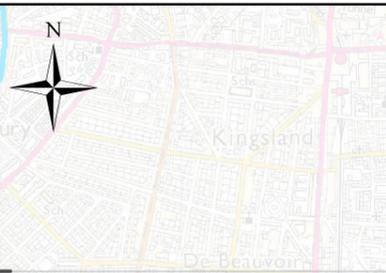
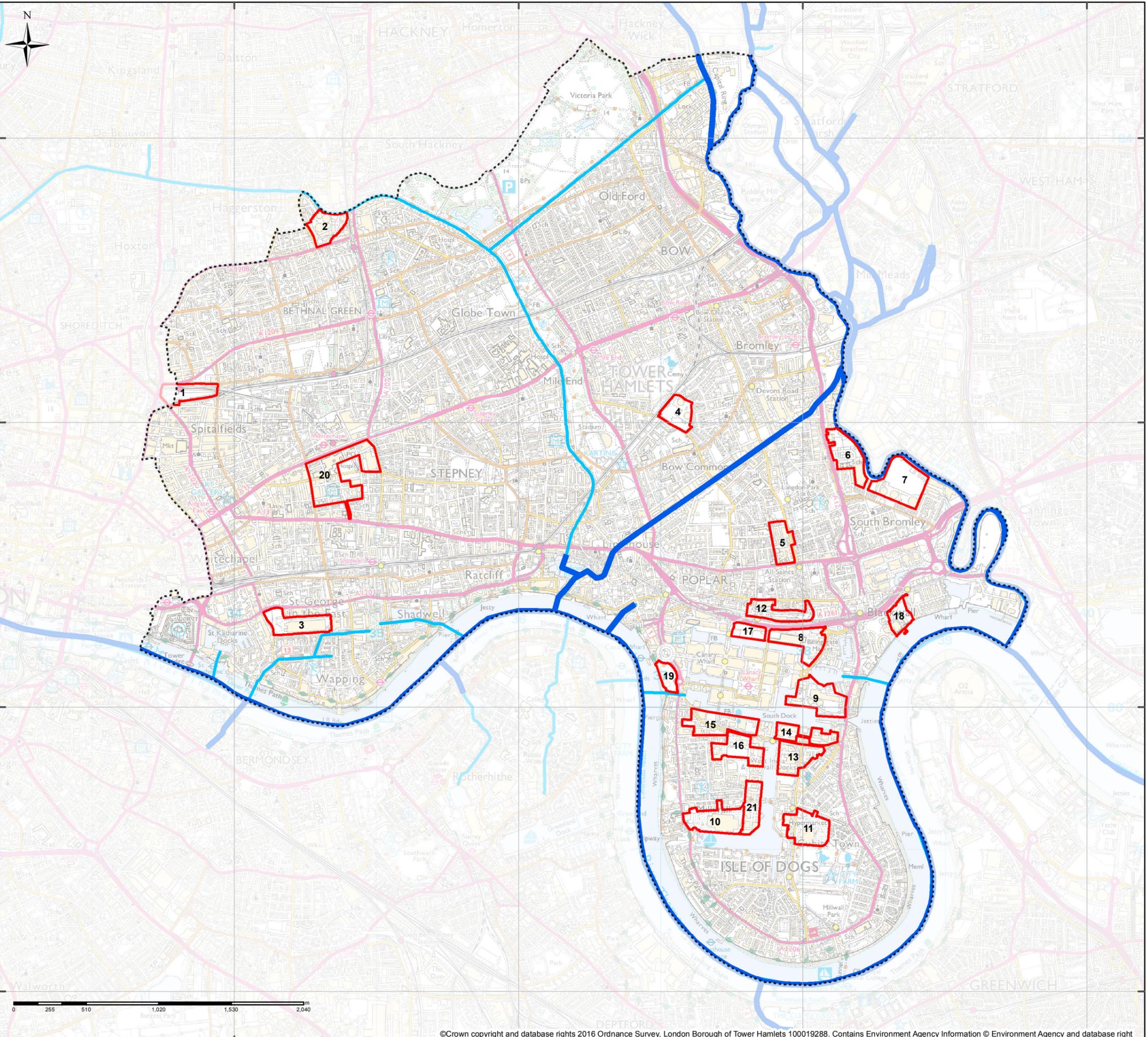
**Modelled Fluvial Flood Outlines
- Defended Scenario**

GIS: BN	Checked: MD	Approved: GP	Date: 21/06/2017
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Map 013C Scale - 1:5,000

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LEGEND

- Tower Hamlets Borough Boundary
- Main River
- Canal
- Proposed Site Allocations

184000
182000
180000
178000



TOWER HAMLETS
Strategic Flood Risk Assessment



Sunley House, 4 Bedford Park
Croydon, Surrey, CR0 2AP
Tel: +44 (0) 208 639 3500
www.aecom.com

Sites Allocated For Planning

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Map 014 Scale - 1:25,311

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