



THIS DRAWING IS TO BE USED ONLY FOR THE PURPOSE OF ISSUE THAT IT WAS ISSUED FOR AND IS SUBJECT TO AMENDMENT

LEGEND

- LB Sutton Boundary
- Reported Flood Incidents
 - ◆ Surface Water (36)
 - ◆ Groundwater (21)
 - ◆ Main River (25)
 - ◆ Sewer (10)

Notes

Flooding incidents have been mapped based on Council records available at the time of the production of the Local Flood Risk Management Strategy.

In many cases incidents of flooding may not be reported to the Council and will therefore not be shown on this map.

Copyright

Contains Ordnance Survey data © Crown copyright and database right 2014

Revision Details	By	Check	Date	Suff

Purpose of Issue

DRAFT REPORT FOR CONSULTATION

Client

Project Title
LONDON BOROUGH OF SUTTON
LOCAL FLOOD RISK
MANAGEMENT STRATEGY

Drawing Title
HISTORIC FLOODING

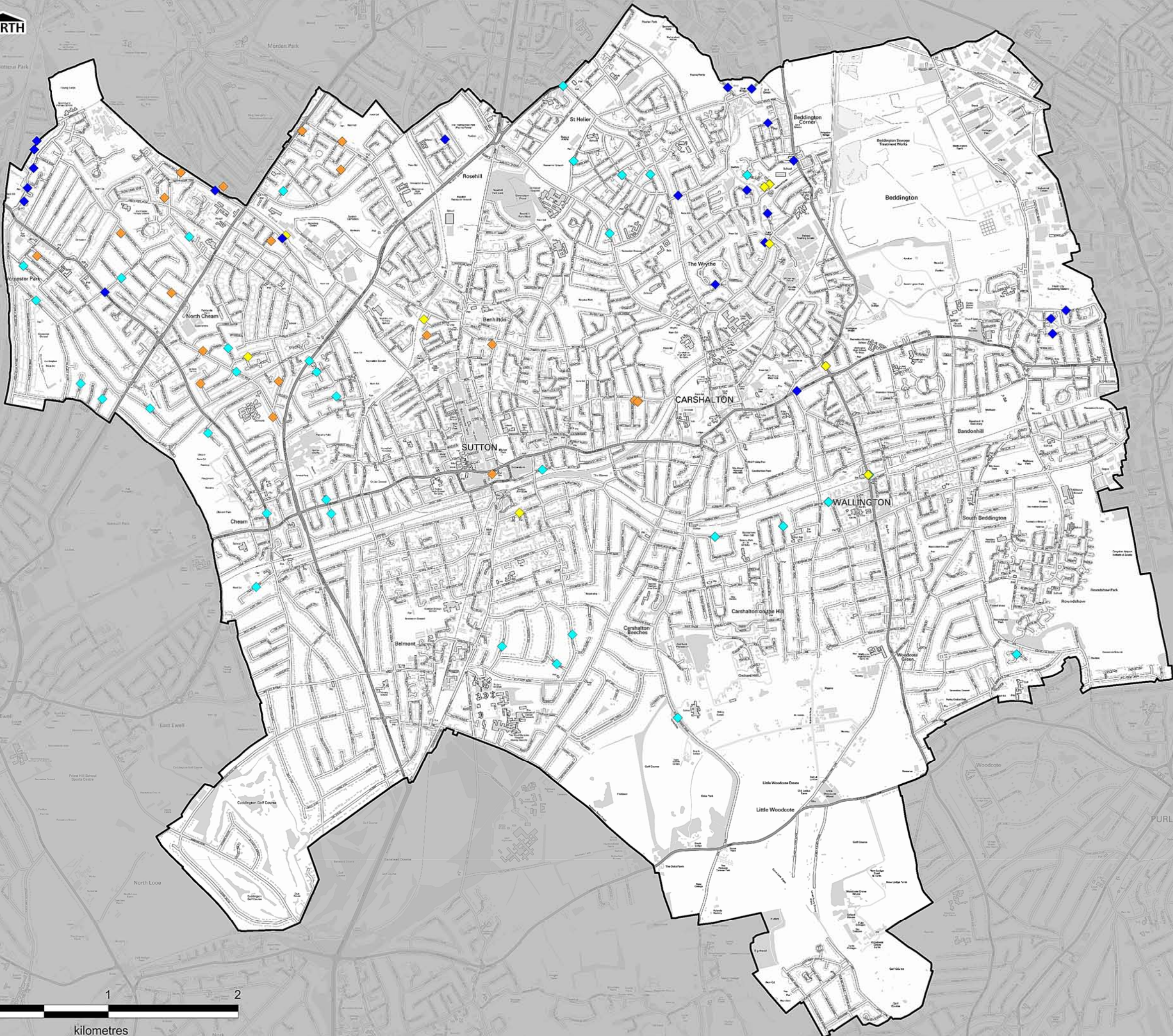
Drawn	Checked	Approved	Date
Joanna Bolding	Sarah Kelly	Jon Robinson	June 2014
URS Internal Project No. 47069163		Scale at A3 1:29,000	

THIS DOCUMENT HAS BEEN PREPARED PURSUANT TO AND SUBJECT TO THE TERMS OF URS'S APPOINTMENT BY ITS CLIENT. URS ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS ORIGINAL CLIENT OR FOLLOWING URS' EXPRESS AGREEMENT TO SUCH USE, AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED.

URS Infrastructure & Environment UK Limited
8 - 8 Greencoast Place
London
SW1P 1PL
Tel: +44 (0)207 7985000



Drawing Number FIGURE 1	Rev 01
-----------------------------------	------------------



11ba-wip-00114700 - Water/WaterProjects & Jobs/47069163 - SW London LFRMIS/06 WIP/068 GIS



THIS DRAWING IS TO BE USED ONLY FOR THE PURPOSE OF ISSUE THAT IT WAS ISSUED FOR AND IS SUBJECT TO AMENDMENT

LEGEND

- LB Sutton boundary

Risk of Flooding from Surface Water

- High
- Medium
- Low
- Very Low

— Main River
 - - - Ordinary Watercourse
 - - - Culverted Main River
 - - - Culverted Ordinary Watercourse

Notes

- This map shows the predicted likelihood of surface water flooding based on the updated Flood Map for Surface Water (FMSW) data, which may be subject to further analysis in the future. Further information on the mapping is provided on the Environment Agency website: www.gov.uk/government/organisations/environment-agency.
- The Flood Risk from Surface Water mapping is split into the following categories:
 - High - each year, the chance of flooding is greater than 1 in 30 (3.3%)
 - Medium - each year, the chance of flooding is between 1 in 100 (1%) and 1 in 30 (3.3%)
 - Low - each year, the chance of flooding is between 1 in 1000 (0.1%) and 1 in 100 (1%)
 - Very Low - each year, the chance of flooding is less than 1 in 1000 (0.1%)
- The potential impact of surface water flooding can vary according to the depth of the water, and its velocity (speed and direction that it is flowing in).
- Surface water flooding happens when rainwater does not drain away through the normal drainage systems or soak into the ground, but lies on or flows over the ground instead. This type of flooding can be difficult to predict as it is hard to forecast exactly where or how much rain will fall in any storm.

Intended Use
 This map is intended to provide a strategic overview of surface water flood risk. It is not suitable for assessing flood risk for individual properties.

Copyright
 Contains Ordnance Survey data © Crown copyright and database right 2014

Revision Details	By	Check	Date	Status

Purpose of Issue
DRAFT REPORT FOR CONSULTATION

Client

Project Title
LONDON BOROUGH OF SUTTON LOCAL FLOOD RISK MANAGEMENT STRATEGY

Drawing Title
FLOOD RISK FROM SURFACE WATER

Drawn	Checked	Approved	Date
Joanna Bolding	Sarah Kelly	Jon Robinson	June 2014

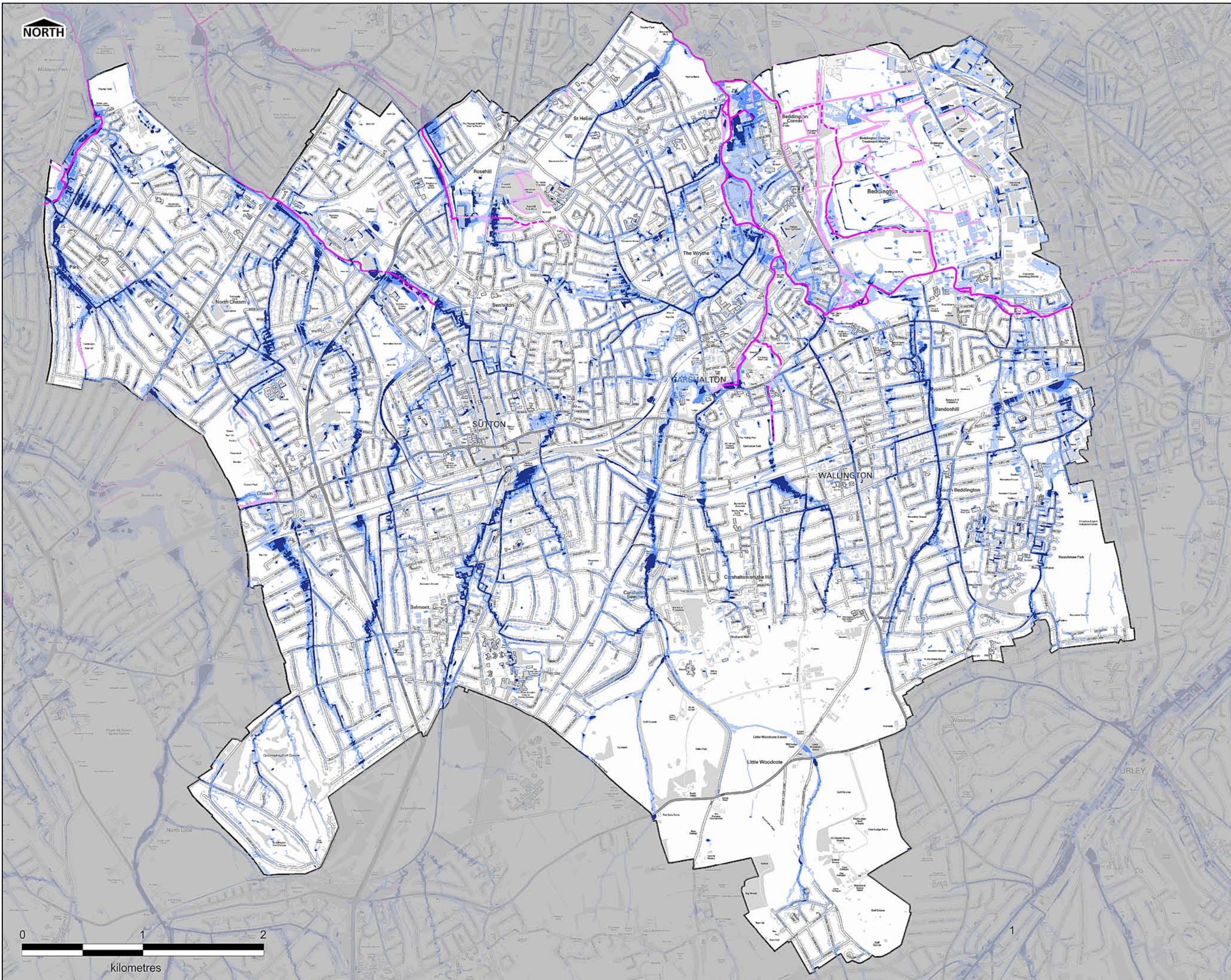
URS Internal Project No. 47069163 Scale at A3 1:29,000

THIS DOCUMENT HAS BEEN PREPARED PURSUANT TO AND SUBJECT TO THE TERMS OF URS'S APPOINTMENT BY ITS CLIENT. URS ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS ORIGINAL CLIENT OR FOLLOWING URS' EXPRESS AGREEMENT TO SUCH USE, AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED.

URS Infrastructure & Environment UK Limited
 8 - 8 Greencoast Place
 London
 SW1P 1PL
 Tel: +44 (0)207 7985000



Drawing Number	Rev
FIGURE 2	01



1ba-wip-0014700 - Water/WaterProjects & Jobs/47069163 - SW London LFRMIS/06 WIP/068 GIS



THIS DRAWING IS TO BE USED ONLY FOR THE PURPOSE OF ISSUE THAT IT WAS ISSUED FOR AND IS SUBJECT TO AMENDMENT

LEGEND

- LB Sutton boundary
- Increased Potential for Elevated Groundwater in
 - Permeable Superficial Deposits
 - Consolidated Aquifers

Notes

1. The increased Potential for Elevated Groundwater map shows those areas where there is an increased potential for groundwater to rise sufficiently to interact with the ground surface or be within 2m of the ground surface.
2. Such groundwater rise could lead to the following:
 - Flooding of basements of buildings below ground level;
 - Flooding of buried services or other assets below ground level;
 - Inundation of farmland, roads, commercial, residential and amenity areas;
 - Flooding of ground floors of buildings above ground level; and
 - Overflowing of sewers and drains.
3. Areas not shown to have increased potential for elevated groundwater should be considered to have a low potential for elevated groundwater - Lack of information does not imply 'no potential' of elevated groundwater in that area.
4. This dataset was produced for the Drain London Project and production of Surface Water Management Plans (SWMP) for each London Borough. Please refer to the SWMP for further information on the use and limitations of the dataset.

Copyright

Contains Ordnance Survey data © Crown copyright and database right 2014

Revision Details

By	Check	Date	Suff

Purpose of Issue

DRAFT REPORT FOR CONSULTATION

Client



Project Title

LONDON BOROUGH OF SUTTON LOCAL FLOOD RISK MANAGEMENT STRATEGY

Drawing Title

FLOOD RISK FROM GROUNDWATER

Drawn	Checked	Approved	Date
Joanna Bolding	Sarah Kelly	Jon Robinson	June 2014

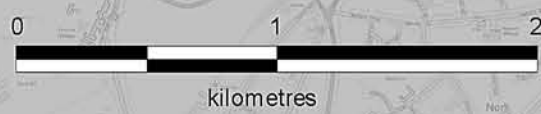
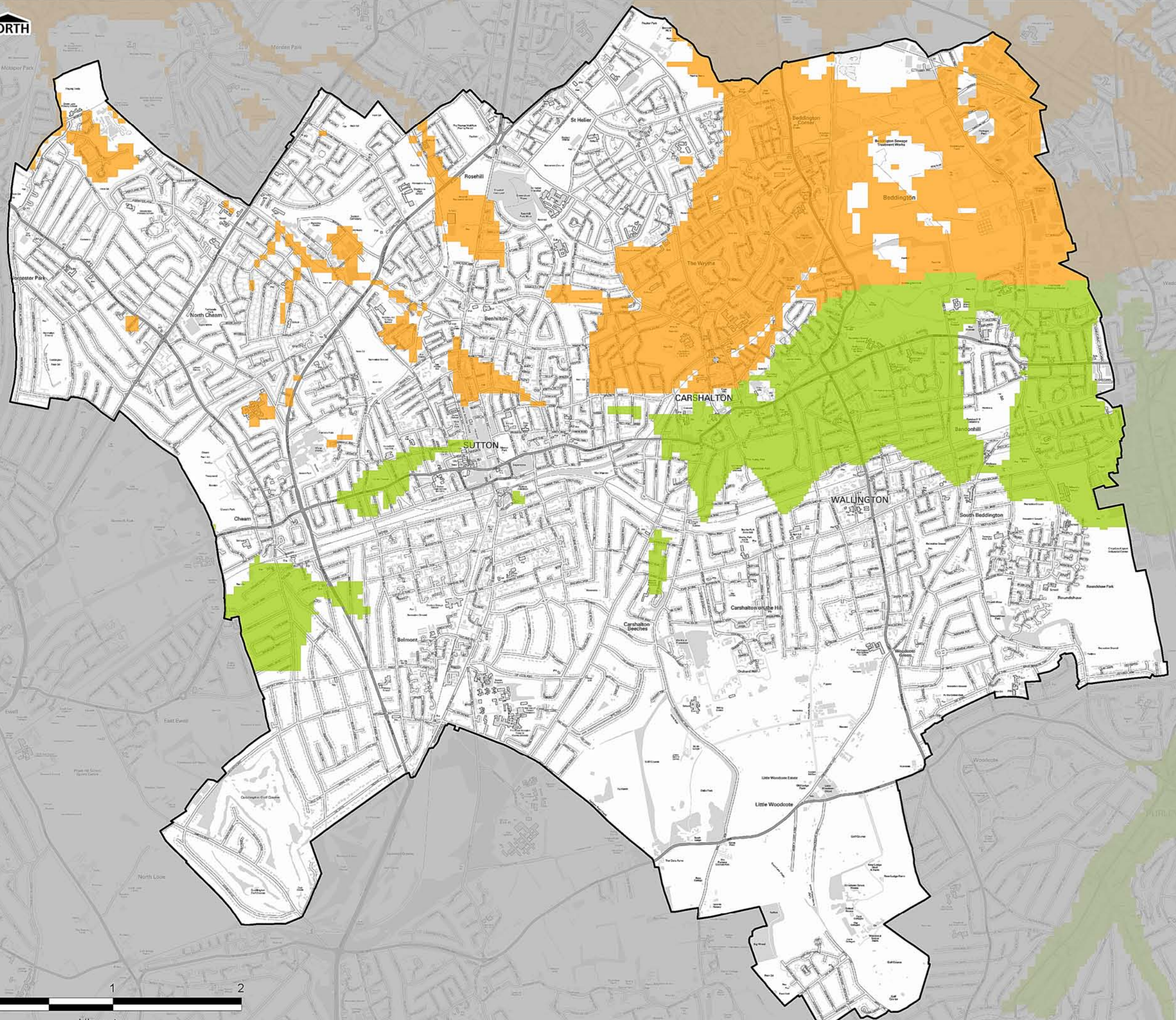
URS Internal Project No. 47069163 Scale at A3 1:29,000

THIS DOCUMENT HAS BEEN PREPARED PURSUANT TO AND SUBJECT TO THE TERMS OF URS'S APPOINTMENT BY ITS CLIENT. URS ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS ORIGINAL CLIENT OR FOLLOWING URS' EXPRESS AGREEMENT TO SUCH USE, AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED.

URS Infrastructure & Environment UK Limited
8 - 8 Greencoast Place
London
SW1P 1PL
Tel: +44 (0)207 7985000



Drawing Number	Rev
FIGURE 3	01



lba-wip-0014700 - Water/WaterProjects & Jobs/47069163 - SW London LFRMIS/06 WIP/068 GIS



THIS DRAWING IS TO BE USED ONLY FOR THE PURPOSE OF ISSUE THAT IT WAS ISSUED FOR AND IS SUBJECT TO AMENDMENT

- LEGEND**
- LB Sutton boundary
 - Risk of flooding from fluvial / tidal sources**
 - Flood Zone 3
 - Flood Zone 2
 - Flood Defences
 - Areas Benefiting from Flood Defences
 - Flood Storage Areas
 - Main River
 - Ordinary Watercourse
 - Culverted Main River
 - Culverted Ordinary Watercourse

Notes

This map has been produced using information provided by the Environment Agency:

- Environment Agency Flood Zone 3: Land assessed, ignoring the presence of flood defences, as have a 1% or greater annual probability of flooding from rivers or a 0.5% or greater annual probability of tidal flooding.
- Environment Agency Flood Zone 2: Land assessed, ignoring the presence of flood defences, as having between a 1% and 0.1% annual probability of flooding from rivers or between a 0.5% and 0.1% annual probability of tidal flooding.
- Environment Agency: Areas that benefit from flood defences: Land that may benefit from the presence of major defences during a 1% fluvial or 0.5% tidal flood event. These are areas that would flood if the defence were not present, but may not flood because the defence is present. Areas benefiting from flood storage areas may be remote from the flood defence structure.
- Environment Agency Flood Defences: The map displays the location of linear raised flood defences such as embankments and walls.
- Environment Agency Flood Storage Areas: Flood storage areas, land designated and operated to store flood water are shown in a separate layer.

Intended Use

This map is intended to provide a strategic overview of flood risk from Main Rivers. It is not suitable for assessing flood risk for individual properties.

Copyright

Contains Ordnance Survey data © Crown copyright and database right 2014

Revision Details	By	Check	Date	Suff

Purpose of Issue

**DRAFT REPORT
FOR CONSULTATION**

Client

Project Title

**LONDON BOROUGH OF SUTTON
LOCAL FLOOD RISK
MANAGEMENT STRATEGY**

Drawing Title

**FLOOD RISK FROM
RIVERS**

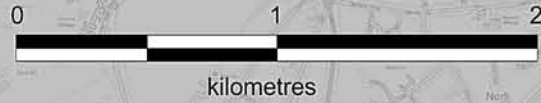
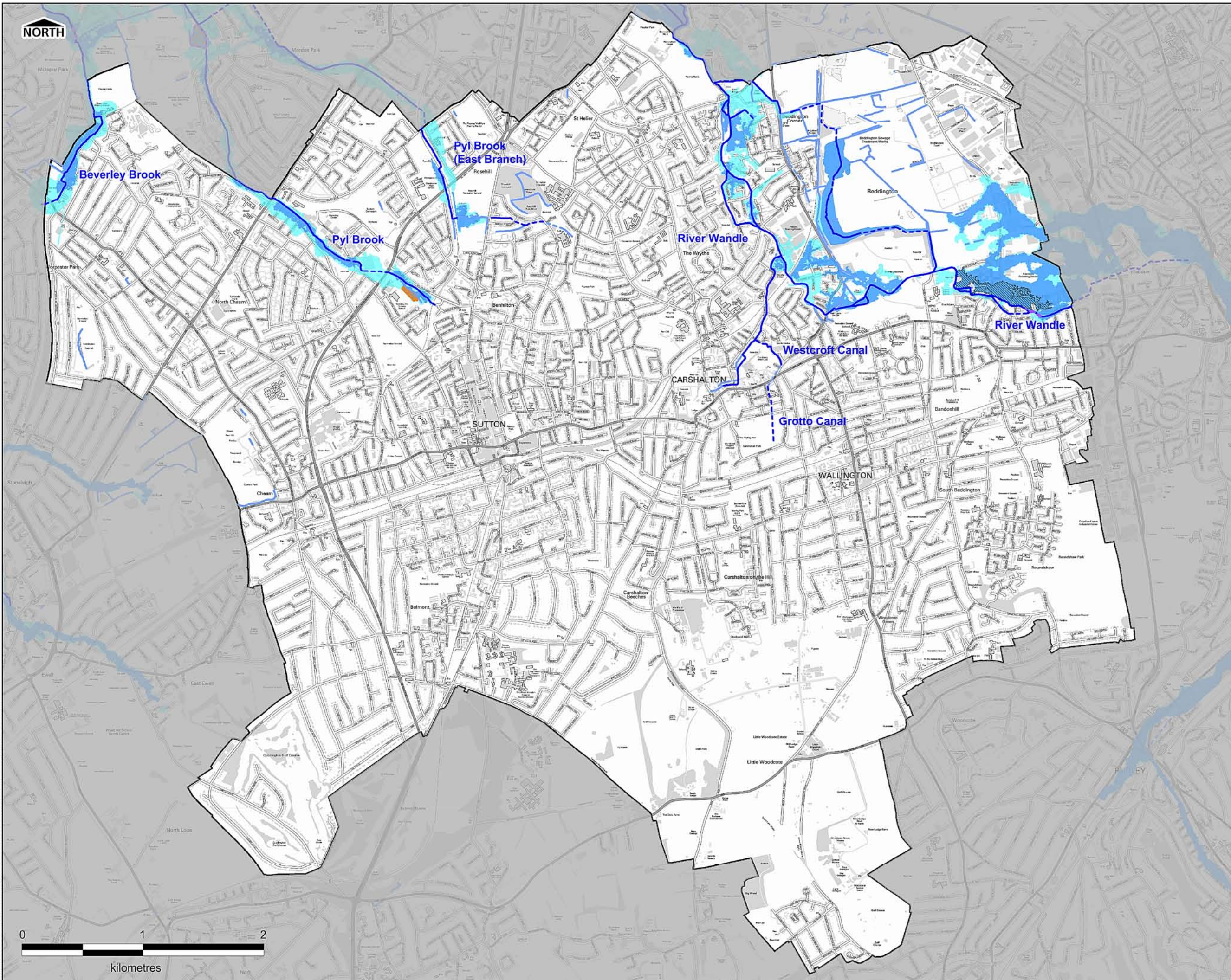
Drawn	Checked	Approved	Date
Joanna Bolding	Sarah Kelly	Jon Robinson	June 2014
URS Internal Project No. 47069163		Scale at A3 1:29,000	

THIS DOCUMENT HAS BEEN PREPARED PURSUANT TO AND SUBJECT TO THE TERMS OF URS'S APPOINTMENT BY ITS CLIENT. URS ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS ORIGINAL CLIENT OR FOLLOWING URS' EXPRESS AGREEMENT TO SUCH USE, AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED.

URS Infrastructure & Environment UK Limited
8 - 8 Greencoast Place
London
SW1P 1PL
Tel: +44 (0)207 7985000

Drawing Number
FIGURE 4

Rev
01



lba-wip-0014700 - Water/Water/Projects & Jobs/47069163 - SW London LFRMIS/06 WIP/068 GIS



THIS DRAWING IS TO BE USED ONLY FOR THE PURPOSE OF ISSUE THAT IT WAS ISSUED FOR AND IS SUBJECT TO AMENDMENT

LEGEND

- LB Sutton boundary
- Main River
- Culverted Main River
- Ordinary Watercourse
- Culverted Ordinary Watercourse

Notes
This map has been produced using the Environment Agency Detailed River Network data.

Copyright
Contains Ordnance Survey data © Crown copyright and database right 2014

Revision Details	By	Check	Date	Suff

Purpose of Issue
DRAFT REPORT FOR CONSULTATION

Client

Project Title
LONDON BOROUGH OF SUTTON
LOCAL FLOOD RISK
MANAGEMENT STRATEGY

Drawing Title
MAIN RIVERS &
ORDINARY WATERCOURSES

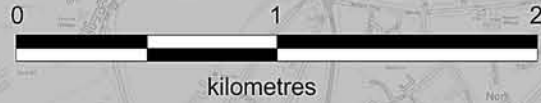
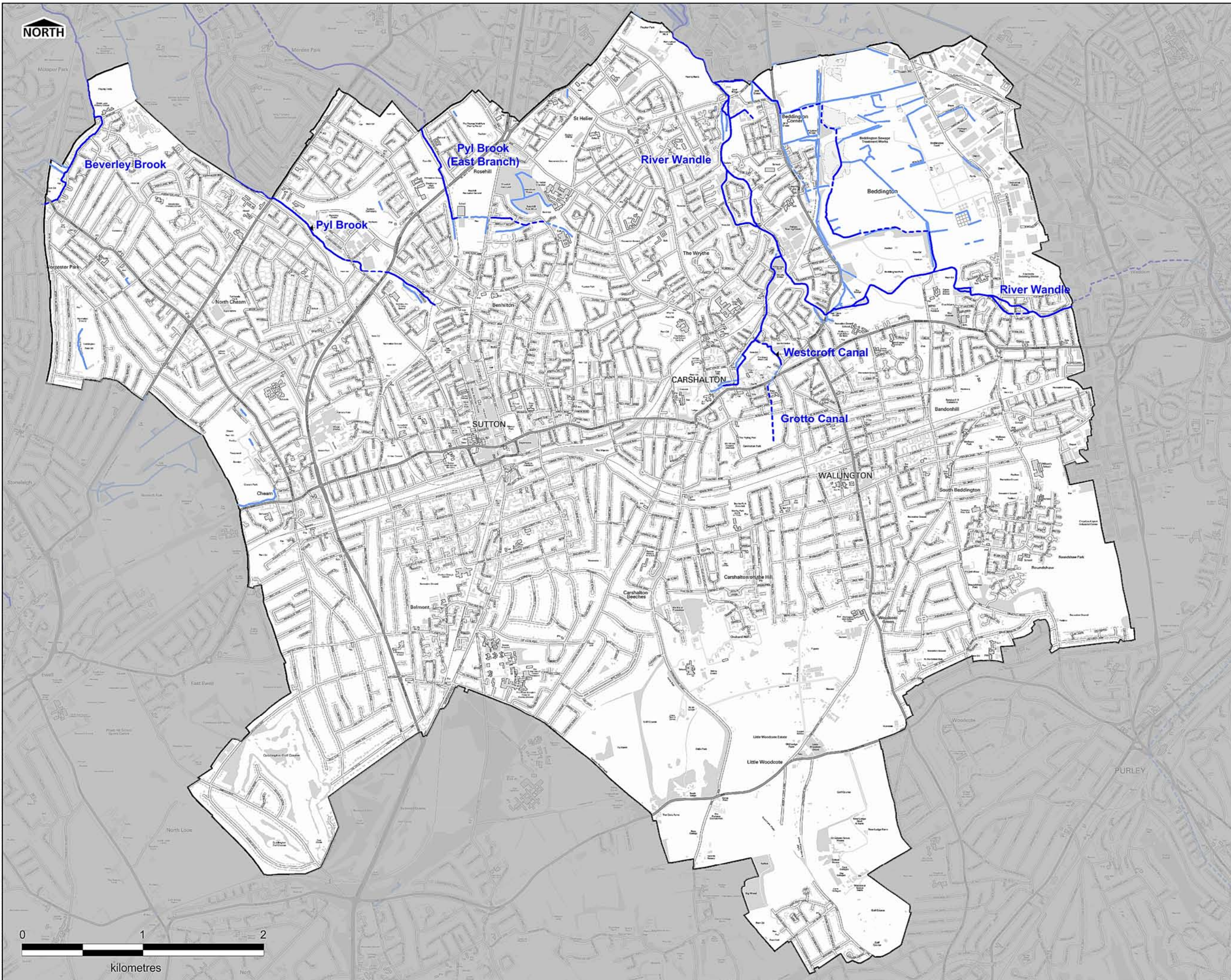
Drawn	Checked	Approved	Date
Joanna Bolding	Sarah Kelly	Jon Robinson	June 2014
URS Internal Project No.		Scale at A3 1:29,000	
47069163			

THIS DOCUMENT HAS BEEN PREPARED PURSUANT TO AND SUBJECT TO THE TERMS OF URS'S APPOINTMENT BY ITS CLIENT. URS ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS ORIGINAL CLIENT OR FOLLOWING URS' EXPRESS AGREEMENT TO SUCH USE, AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED.

URS Infrastructure & Environment UK Limited
8 - 8 Greencoast Place
London
SW1P 1PL
Tel: +44 (0)207 7985000



Drawing Number	Rev
FIGURE 5	01



lba-wip-0014700 - Water/WaterProjects & Jobs/47069163 - SW London LFRMIS/06 WIP/068 GIS



THIS DRAWING IS TO BE USED ONLY FOR THE PURPOSE OF ISSUE THAT IT WAS ISSUED FOR AND IS SUBJECT TO AMENDMENT

LEGEND

- LB Sutton boundary
- Critical Drainage Area Boundary

Risk of Flooding from Surface Water

- High (3.3% AEP)
- Medium (1% AEP)
- Low (0.1% AEP)
- Very Low (<0.1% AEP)

Notes

- This map shows the predicted likelihood of surface water flooding based on the updated Flood Map for Surface Water (FMSW) data, which may be subject to further analysis in the future. Further information on the mapping is provided on the Environment Agency website: www.gov.uk/government/organisations/environment-agency.
- The Flood Risk from Surface Water mapping is split into the following categories:
 - High - each year, the chance of flooding is greater than 1 in 30 (3.3%)
 - Medium - each year, the chance of flooding is between 1 in 100 (1%) and 1 in 30 (3.3%)
 - Low - each year, the chance of flooding is between 1 in 1000 (0.1%) and 1 in 100 (1%)
 - Very Low - each year, the chance of flooding is less than 1 in 1000 (0.1%)
- The potential impact of surface water flooding can vary according to the depth of the water, and its velocity (speed and direction that it is flowing in).
- Surface water flooding happens when rainwater does not drain away through the normal drainage systems or soak into the ground, but lies on or flows over the ground instead. This type of flooding can be difficult to predict as it is hard to forecast exactly where or how much rain will fall in any storm.

Intended Use
This map is intended to provide a strategic overview of surface water flood risk and should not be used to assess flood risk for individual properties.

Copyright
Contains Ordnance Survey data © Crown copyright and database right 2014

Revision Details	By	Check	Date	Suffix

Purpose of Issue
DRAFT REPORT FOR CONSULTATION

Client

Project Title
LONDON BOROUGH OF SUTTON LOCAL FLOOD RISK MANAGEMENT STRATEGY

Drawing Title
SURFACE WATER CRITICAL DRAINAGE AREAS

Drawn	Checked	Approved	Date
Joanna Bolding	Sarah Kelly	Jon Robinson	June 2014

URS Internal Project No. 47069163 Scale at A3 1:29,000

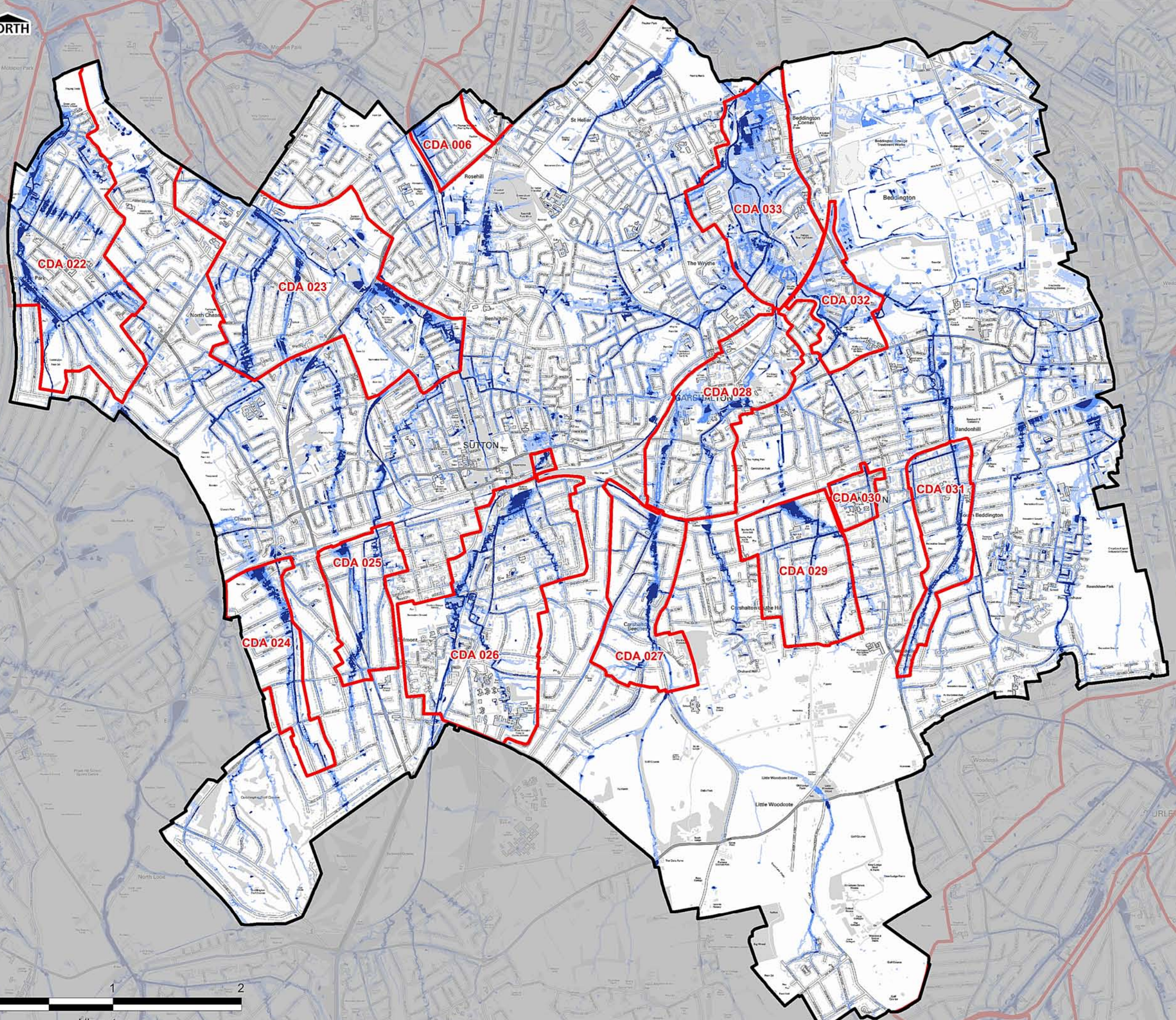
THIS DOCUMENT HAS BEEN PREPARED PURSUANT TO AND SUBJECT TO THE TERMS OF URS'S APPOINTMENT BY ITS CLIENT. URS ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS ORIGINAL CLIENT OR FOLLOWING URS' EXPRESS AGREEMENT TO SUCH USE, AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED.

URS Infrastructure & Environment UK Limited
8 - 8 Greencoast Place
London
SW1P 1PL
Tel: +44 (0)207 7985000

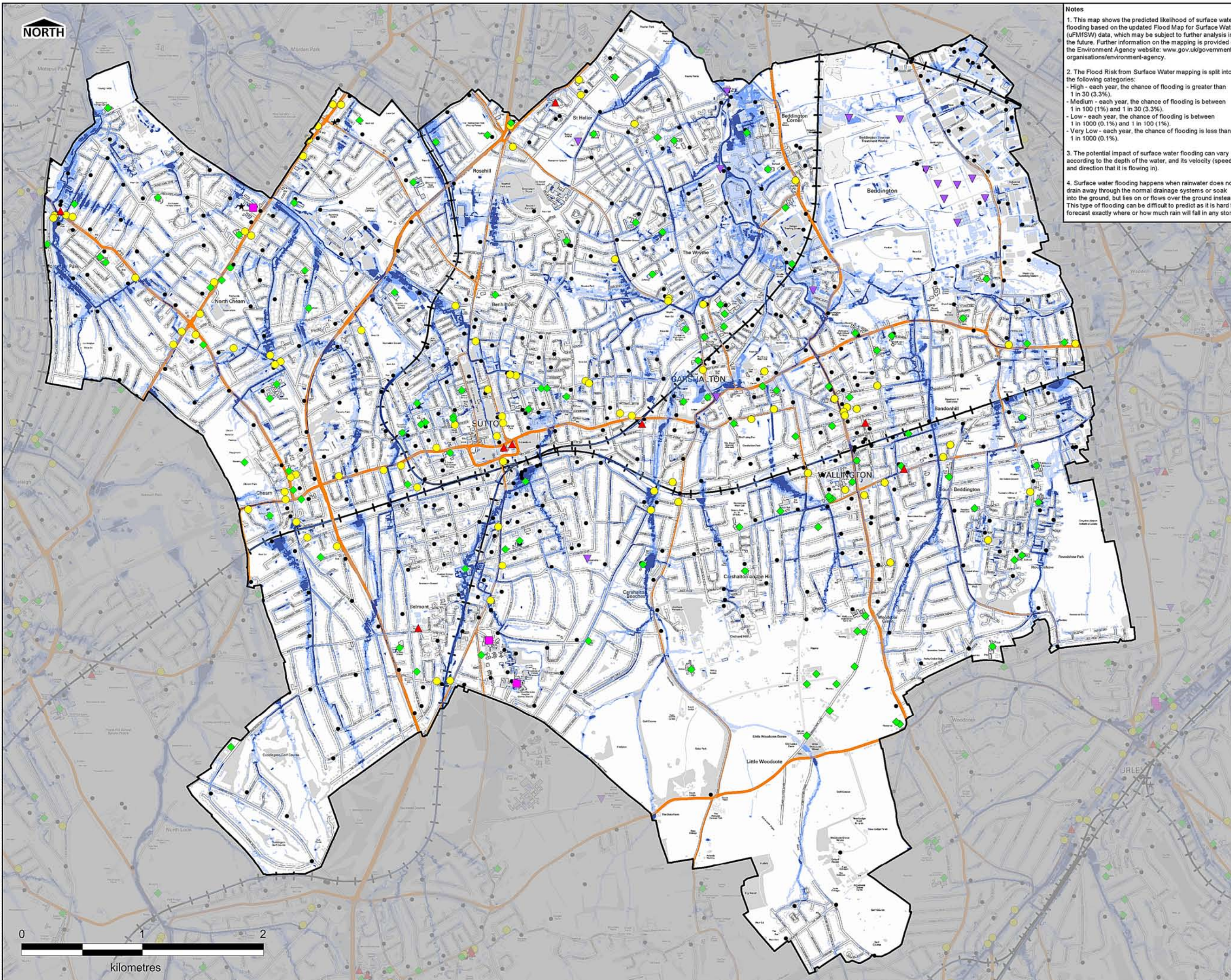


Drawing Number
FIGURE 6

Rev
01



lba-wip-0014700 - Water/WaterProjects & Jobs/47069163 - SW London LFRMS/06 WIP/068 GIS



Notes

- This map shows the predicted likelihood of surface water flooding based on the updated Flood Map for Surface Water (uFMSW) data, which may be subject to further analysis in the future. Further information on the mapping is provided on the Environment Agency website: www.gov.uk/government/organisations/environment-agency.
- The Flood Risk from Surface Water mapping is split into the following categories:
 - High - each year, the chance of flooding is greater than 1 in 30 (3.3%).
 - Medium - each year, the chance of flooding is between 1 in 100 (1%) and 1 in 30 (3.3%).
 - Low - each year, the chance of flooding is between 1 in 1000 (0.1%) and 1 in 100 (1%).
 - Very Low - each year, the chance of flooding is less than 1 in 1000 (0.1%).
- The potential impact of surface water flooding can vary according to the depth of the water, and its velocity (speed and direction that it is flowing in).
- Surface water flooding happens when rainwater does not drain away through the normal drainage systems or soak into the ground, but lies on or flows over the ground instead. This type of flooding can be difficult to predict as it is hard to forecast exactly where or how much rain will fall in any storm.

THIS DRAWING IS TO BE USED ONLY FOR THE PURPOSE OF ISSUE THAT IT WAS ISSUED FOR AND IS SUBJECT TO AMENDMENT

LEGEND

— LB Sutton boundary

Risk of Flooding from Surface Water

- High (3.3% AEP)
- Medium (1% AEP)
- Low (0.1% AEP)
- Very Low (<0.1% AEP)

Critical Infrastructure

- Emergency Services (Fire, Police and Ambulance Station)
- Hospital
- School, Nursery, College or University
- Surgery or Health Care Centre
- Nursing / Care Home
- Sewage Treatment
- Electricity Installations

Major Road

- A Road
- B Road

Railway Line

Intended Use
This map is intended to provide a strategic overview of surface water flood risk and should not be used to assess flood risk for individual properties or infrastructure.

Copyright
Contains Ordnance Survey data © Crown copyright and database right 2014

Revision Details	By	Check	Date	Suffa

Purpose of Issue
DRAFT REPORT FOR CONSULTATION

Client

Project Title
LONDON BOROUGH OF SUTTON LOCAL FLOOD RISK MANAGEMENT STRATEGY

Drawing Title
FLOOD RISK FROM SURFACE WATER: CRITICAL INFRASTRUCTURE & TRANSPORT

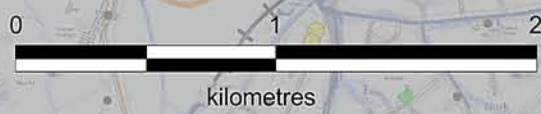
Drawn	Checked	Approved	Date
Joanna Bolding	Sarah Kelly	Jon Robinson	June 2014
URS Internal Project No. 47069163		Scale at A3 1:29,000	

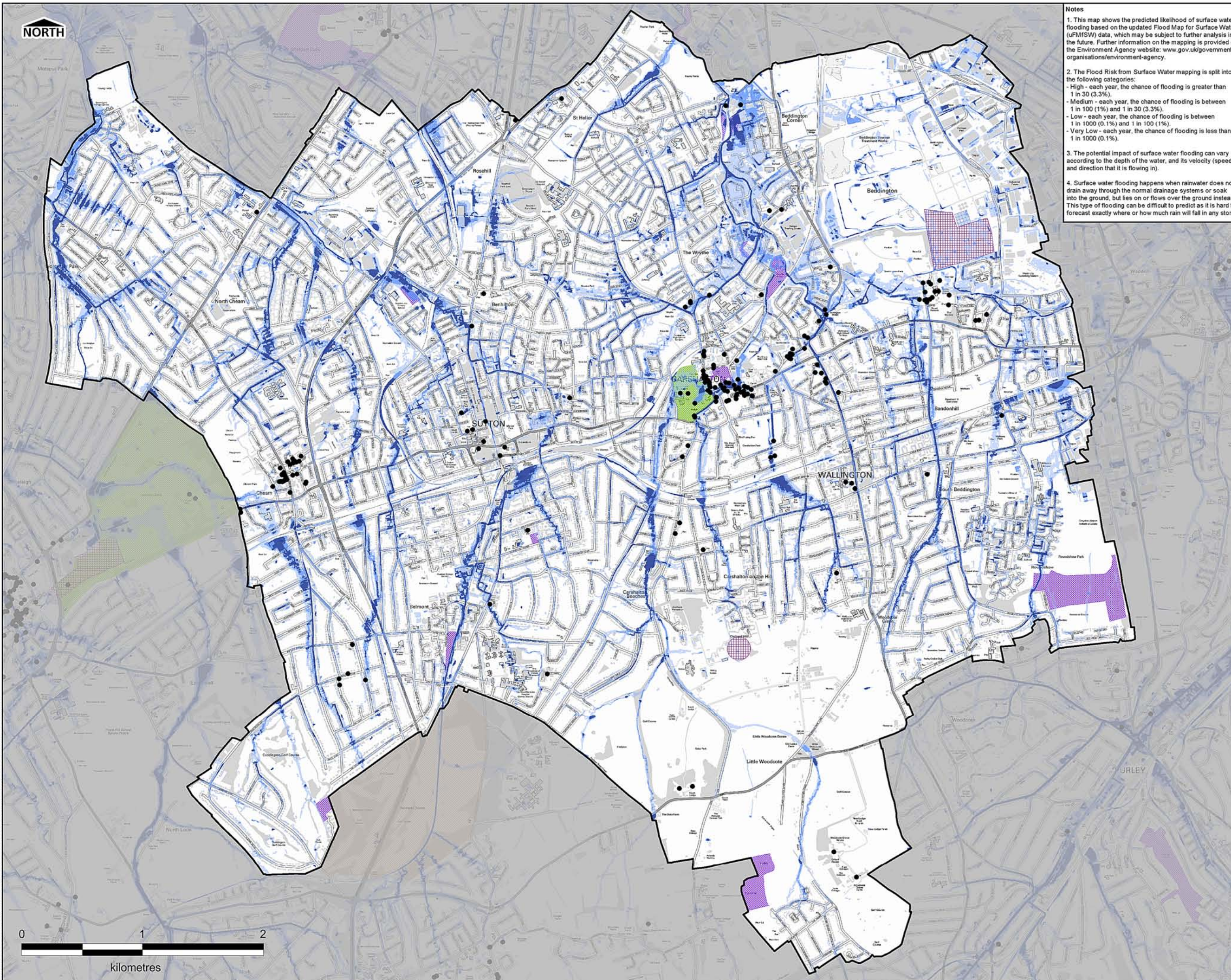
THIS DOCUMENT HAS BEEN PREPARED PURSUANT TO AND SUBJECT TO THE TERMS OF URS'S APPOINTMENT BY ITS CLIENT. URS ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS ORIGINAL CLIENT OR FOLLOWING URS' EXPRESS AGREEMENT TO SUCH USE, AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED.

URS Infrastructure & Environment UK Limited
8 - 8 Greencost Place
London
SW1P 1PL
Tel: +44 (0)207 7985000

Drawing Number FIGURE 7	Rev 01
--	-------------------------

lba-wip-0014700 - Water/WaterProjects & Jobs/47069163 - SW London LFRMIS06 WIP068 GIS





Notes

- This map shows the predicted likelihood of surface water flooding based on the updated Flood Map for Surface Water (uFMSW) data, which may be subject to further analysis in the future. Further information on the mapping is provided on the Environment Agency website: www.gov.uk/government/organisations/environment-agency.
- The Flood Risk from Surface Water mapping is split into the following categories:
 - High - each year, the chance of flooding is greater than 1 in 30 (3.3%).
 - Medium - each year, the chance of flooding is between 1 in 100 (1%) and 1 in 30 (3.3%).
 - Low - each year, the chance of flooding is between 1 in 1000 (0.1%) and 1 in 100 (1%).
 - Very Low - each year, the chance of flooding is less than 1 in 1000 (0.1%).
- The potential impact of surface water flooding can vary according to the depth of the water, and its velocity (speed and direction that it is flowing in).
- Surface water flooding happens when rainwater does not drain away through the normal drainage systems or soak into the ground, but lies on or flows over the ground instead. This type of flooding can be difficult to predict as it is hard to forecast exactly where or how much rain will fall in any storm.

THIS DRAWING IS TO BE USED ONLY FOR THE PURPOSE OF ISSUE THAT IT WAS ISSUED FOR AND IS SUBJECT TO AMENDMENT

LEGEND

— LB Sutton boundary

Risk of Flooding from Surface Water

- High (3.3% AEP)
- Medium (1% AEP)
- Low (0.1% AEP)
- Very Low (<0.1% AEP)

Environmental Sites

- Site of Special Scientific Interest (SSSI)
- Special Protection Area (SPA)
- Special Area of Conservation (SAC)
- Ramsar Site
- National Nature Reserve (NNR)
- Local Nature Reserve (LNR)
- Area of Outstanding Natural Beauty (AOB)

Heritage Sites

- World Heritage Site
- Schedule of Ancient Monuments
- Parks & Gardens of Special Historic Interest
- Listed Building

Intended Use
This map is intended to provide a strategic overview of surface water flood risk and should not be used to assess flood risk for individual properties, heritage or environmental sites.

Copyright
Contains Ordnance Survey data © Crown copyright and database right 2014

Revision Details	By	Check	Date	Suff

Purpose of Issue
DRAFT REPORT FOR CONSULTATION

Client

Project Title
LONDON BOROUGH OF SUTTON LOCAL FLOOD RISK MANAGEMENT STRATEGY

Drawing Title
FUTURE FLOOD FROM SURFACE WATER: ENVIRONMENT & HERITAGE

Drawn	Checked	Approved	Date
Joanna Bolding	Sarah Kelly	Jon Robinson	April 2014
URS Internal Project No. 47069163		Scale at A3 1:29,000	

THIS DOCUMENT HAS BEEN PREPARED PURSUANT TO AND SUBJECT TO THE TERMS OF URS'S APPOINTMENT BY ITS CLIENT. URS ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS ORIGINAL CLIENT OR FOLLOWING URS' EXPRESS AGREEMENT TO SUCH USE, AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED.

URS Infrastructure & Environment UK Limited
8 - 8 Greencoat Place
London
SW1P 1PL
Tel: +44 (0)207 7985000



Drawing Number
FIGURE 8

Rev
01

lba-wip-0014700 - Water/WaterProjects & Jobs/47069163 - SW London LFRMS/06 WIP/068 GIS

