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### LEGEND

**Watercourses**

- Ordinary Watercourses (Culverted)
- Ordinary Watercourses (Surface Level)
- Main Rivers
- Flood Storage Reservoir
- Ward Boundary
- Stevenage Borough

**Notes**

Main Rivers are designated by Defra on a 'Main River Map'. The Environment Agency has permissive powers to carry out flood defence works, maintenance and operational activities for Main Rivers only. However overall responsibility for maintenance lies with the riparian owner.

An Ordinary Watercourse is a watercourse that does not form part of a Main River. This includes all rivers and streams and all ditches, drains, cuts, culverts, dikes, sluices, (other than public sewers within the meaning of the Water Industry Act 1991) and passages, through which water flows according to the Land Drainage Act 1991.

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Revision Details	By	Check	Date	Suffix

Purpose of Issue

FINAL

Client

**Stevenage**  
BOROUGH COUNCIL

Project Title

STEVENAGE BOROUGH COUNCIL  
STRATEGIC FLOOD  
RISK ASSESSMENT

Drawing Title

STUDY AREA

Drawn	Checked	Approved	Date
LM	GB	FC	13/06/2016

AECOM Internal Project No.

60486866

Scale at A3

1:25,000

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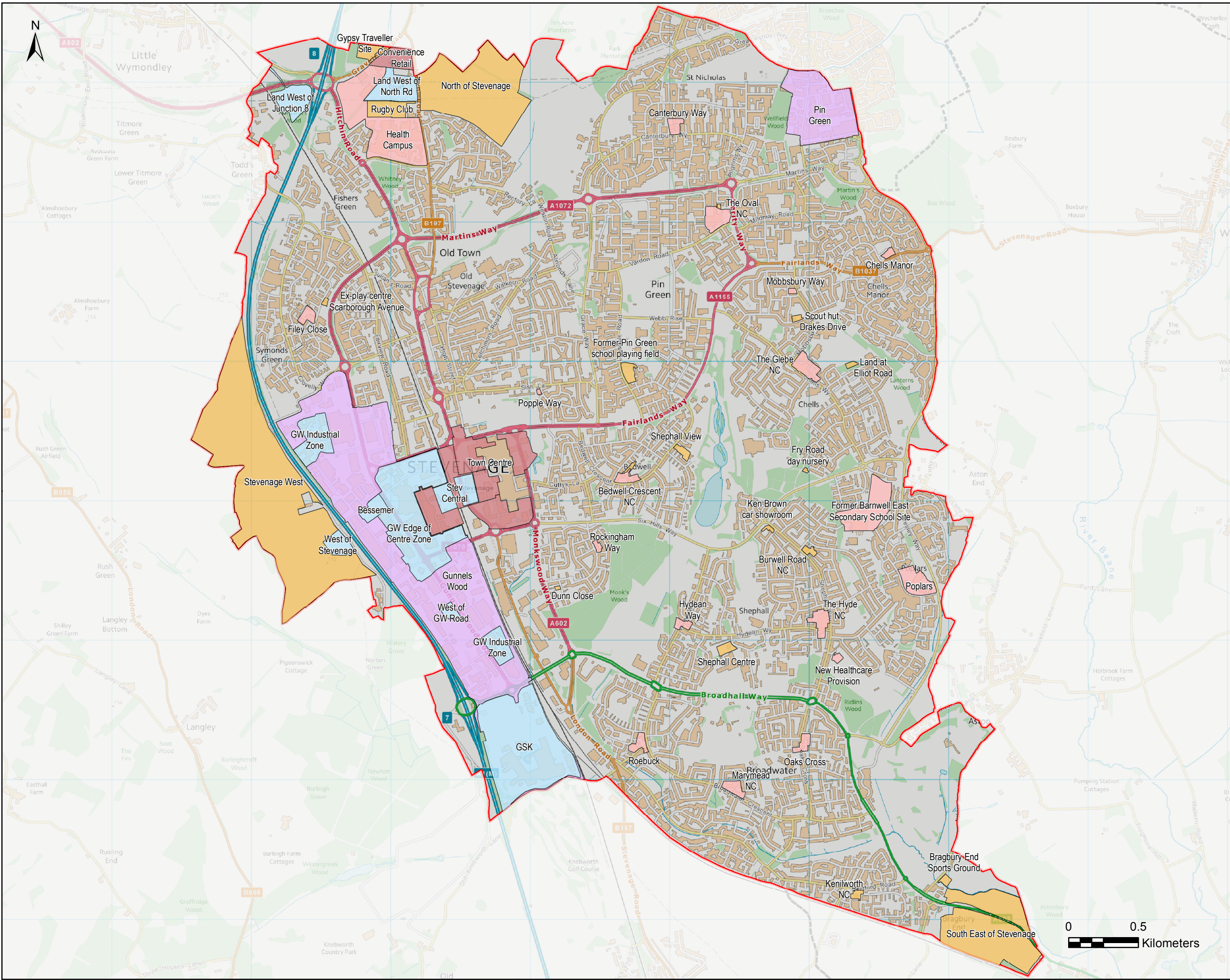
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Drawing Number	Rev
FIGURE 01	2





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**LEGEND**

**Local Plan Sites**

- Allocated Employment Sites
- Employment Development Areas
- Healthy Community Sites
- Housing Sites
- Major Opportunity Areas
- Stevenage Borough

**Notes**

This map shows the location of the development sites proposed on the Stevenage Borough Local Plan 2011-2031 published by the Stevenage Borough Council. Further information is provided on the Stevenage Borough Council website ([www.stevenage.gov.uk](http://www.stevenage.gov.uk))

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Purpose of Issue: **FINAL**

Client: **Stevenage BOROUGH COUNCIL**

Project Title: **STEVENAGE BOROUGH COUNCIL STRATEGIC FLOOD RISK ASSESSMENT**

Drawing Title: **LOCAL PLAN SITES**

Drawn	Checked	Approved	Date
LM	GB	FC	13/06/2016

AECOM Internal Project No. **60486866**

Scale at A3: **1:25,000**

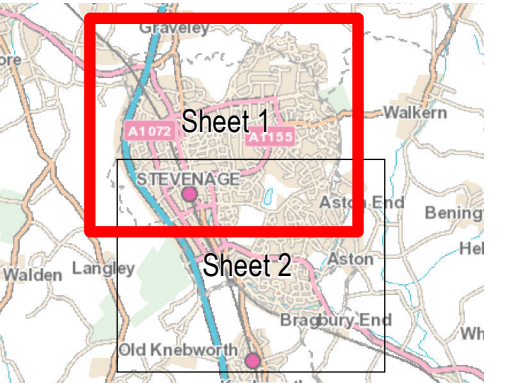
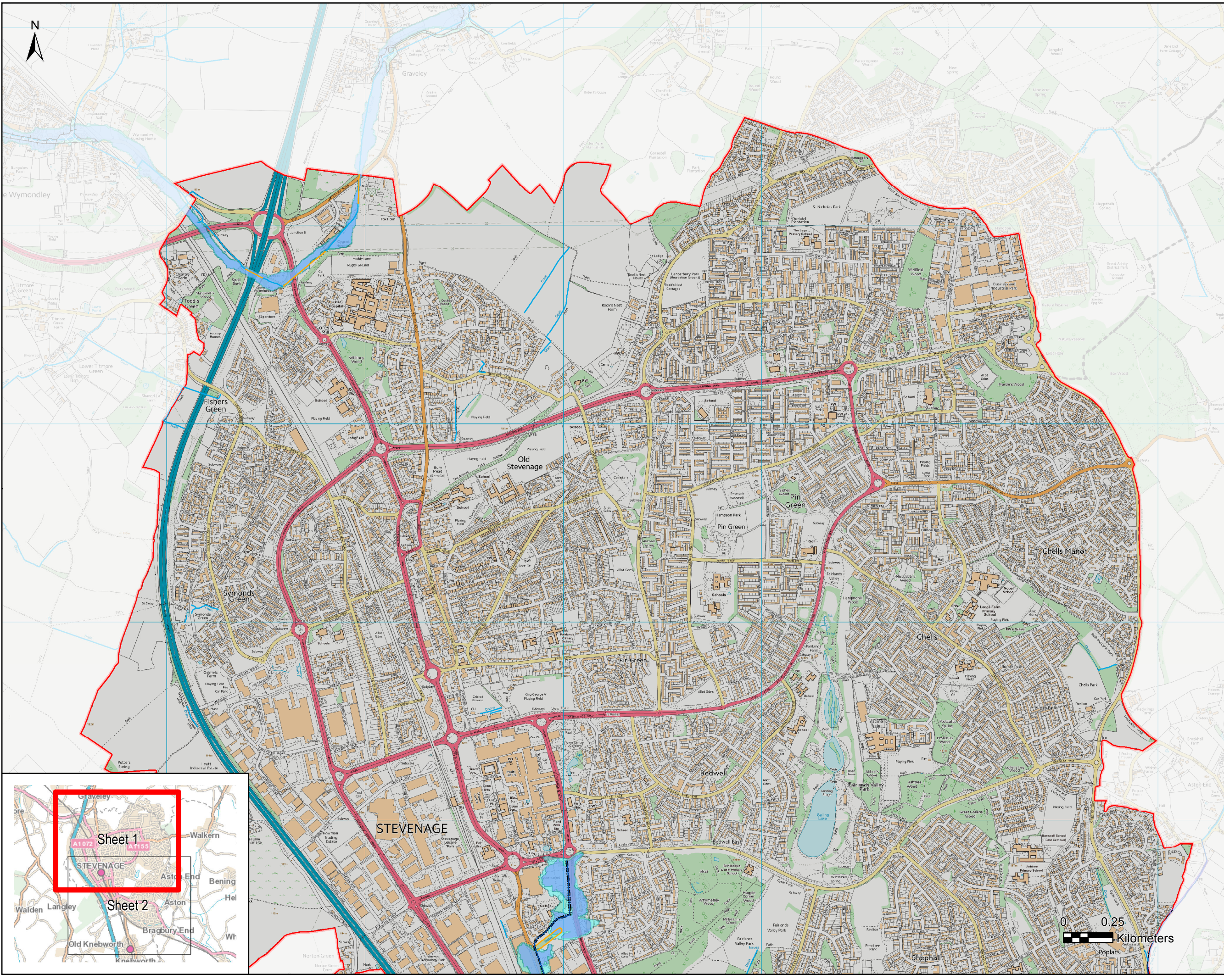
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<b>FIGURE 02</b>	<b>2</b>





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**LEGEND**

**Watercourses**

- Ordinary Watercourses (Culverted)
- Ordinary Watercourses (Surface Level)
- Main Rivers
- Historic Flood Map
- Flood Defences
- ABDs

**Flooding from Rivers**

- Flood Zone 1
- Flood Zone 2
- Flood Zone 3a
- Flood Zone 3b Functional Floodplain
- Stevenage Borough

**Notes**

Main Rivers are designated by Defra on a 'Main River Map'. The Environment Agency has permissive powers to carry out flood defence works, maintenance and operational activities for Main Rivers only. However overall responsibility for maintenance lies with the riparian owner.

An Ordinary Watercourse is a watercourse that does not form part of a Main River. This includes all rivers and streams and all ditches, drains, cuts, culverts, dikes, sluices, (other than public sewers within the meaning of the Water Industry Act 1991) and passages, through which water flows according to the Land Drainage Act 1991.

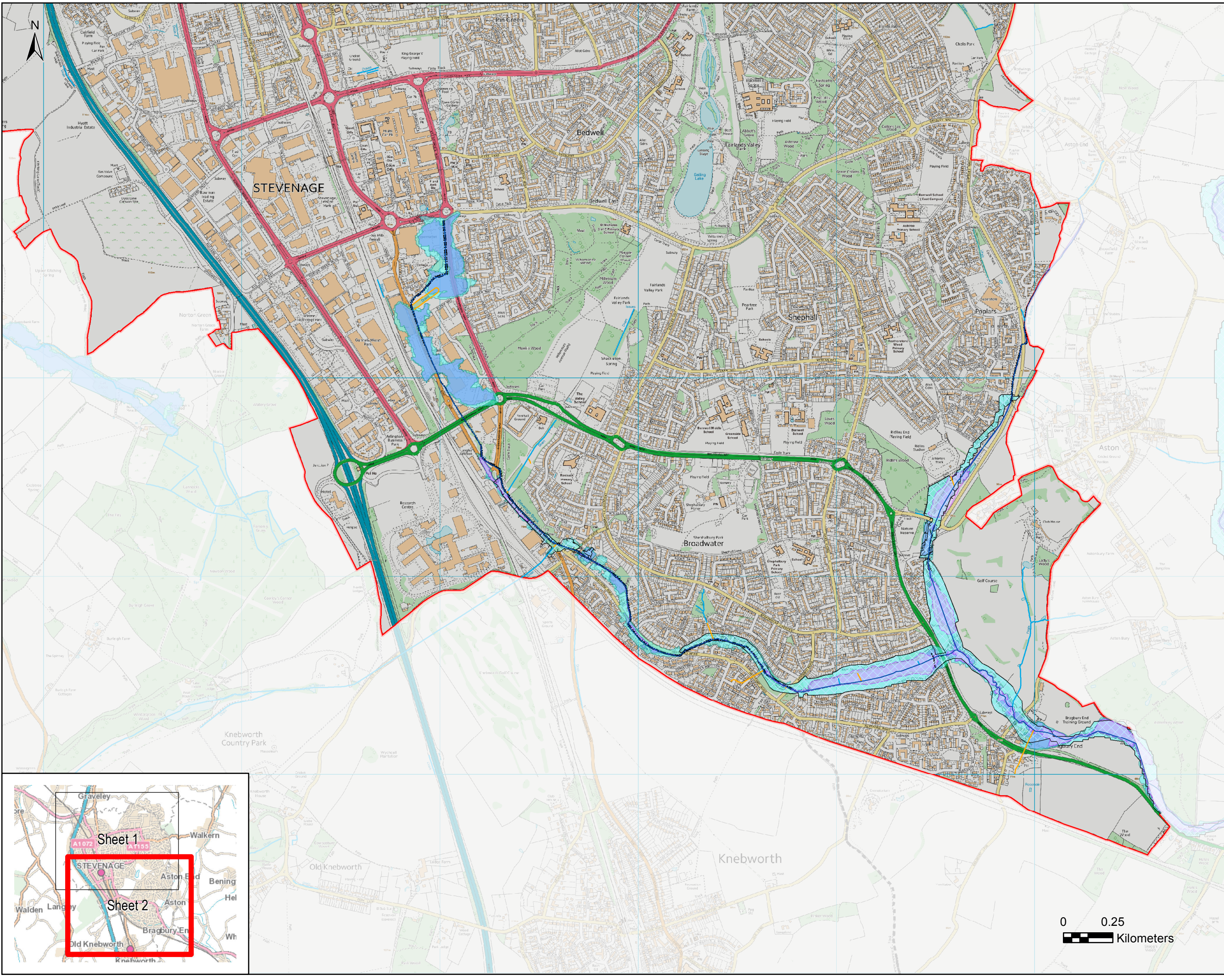
The Risk from Rivers is divided into the following categories:  
Flood Zone 1 - Land having a less than 1,000 (0.1%) annual probability of river flooding in any year. Shown as clear on the Flood Map - all land outside Flood Zones 2 and 3.  
Flood Zone 2 - Land having between a 1 in 100 and 1 in 1,000 (between 1% and 0.1%) annual probability of river flooding in any year.  
Flood Zone 3a - Land having 1 in 100 (1%) or greater annual probability of river flooding in any year.  
Flood Zone 3b - Land where water has to flow or be stored in times of river flooding in any year.  
For the purpose of this SFRA, land modelled to have a probability of 5% or greater has been used to delineate Flood Zone 3b.

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

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Purpose of Issue	FINAL			
Client				
Project Title	STEVENAGE BOROUGH COUNCIL STRATEGIC FLOOD RISK ASSESSMENT			
Drawing Title	FLOODING FROM RIVERS SHEET 1 OF 2			
Drawn	Checked	Approved	Date	
LM	GB	FC	13/06/2016	
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### LEGEND

**Watercourses**

- Ordinary Watercourses (Culverted)
- Ordinary Watercourses (Surface Level)
- Main Rivers
- Historic Flood Map
- Flood Defences
- ABDs

**Flooding from Rivers**

- Flood Zone 1
- Flood Zone 2
- Flood Zone 3a
- Flood Zone 3b Functional Floodplain
- Stevenage Borough

**Notes**

Main Rivers are designated by Defra on a 'Main River Map'. The Environment Agency has permissive powers to carry out flood defence works, maintenance and operational activities for Main Rivers only. However overall responsibility for maintenance lies with the riparian owner.

An Ordinary Watercourse is a watercourse that does not form part of a Main River. This includes all rivers and streams and all ditches, drains, cuts, culverts, dikes, sluices, (other than public sewers within the meaning of the Water Industry Act 1991) and passages, through which water flows according to the Land Drainage Act 1991.

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Flood Zone 2 - Land having between a 1 in 100 and 1 in 1,000 (between 1% and 0.1%) annual probability of river flooding in any year.

Flood Zone 3a - Land having 1 in 100 (1%) or greater annual probability of river flooding in any year.

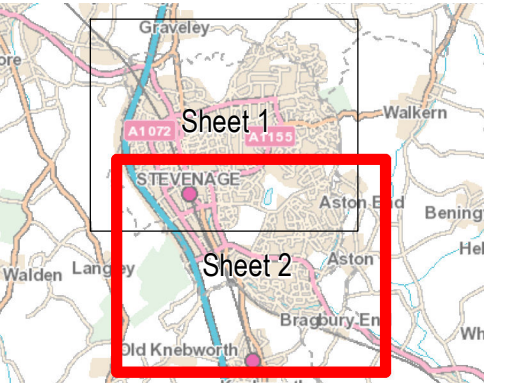
Flood Zone 3b - Land where water has to flow or be stored in times of river flooding in any year.

For the purpose of this SFRA, land modelled to have a probability of 5% or greater has been used to delineate Flood Zone 3b.

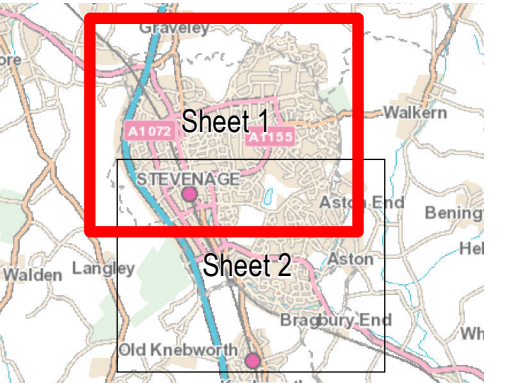
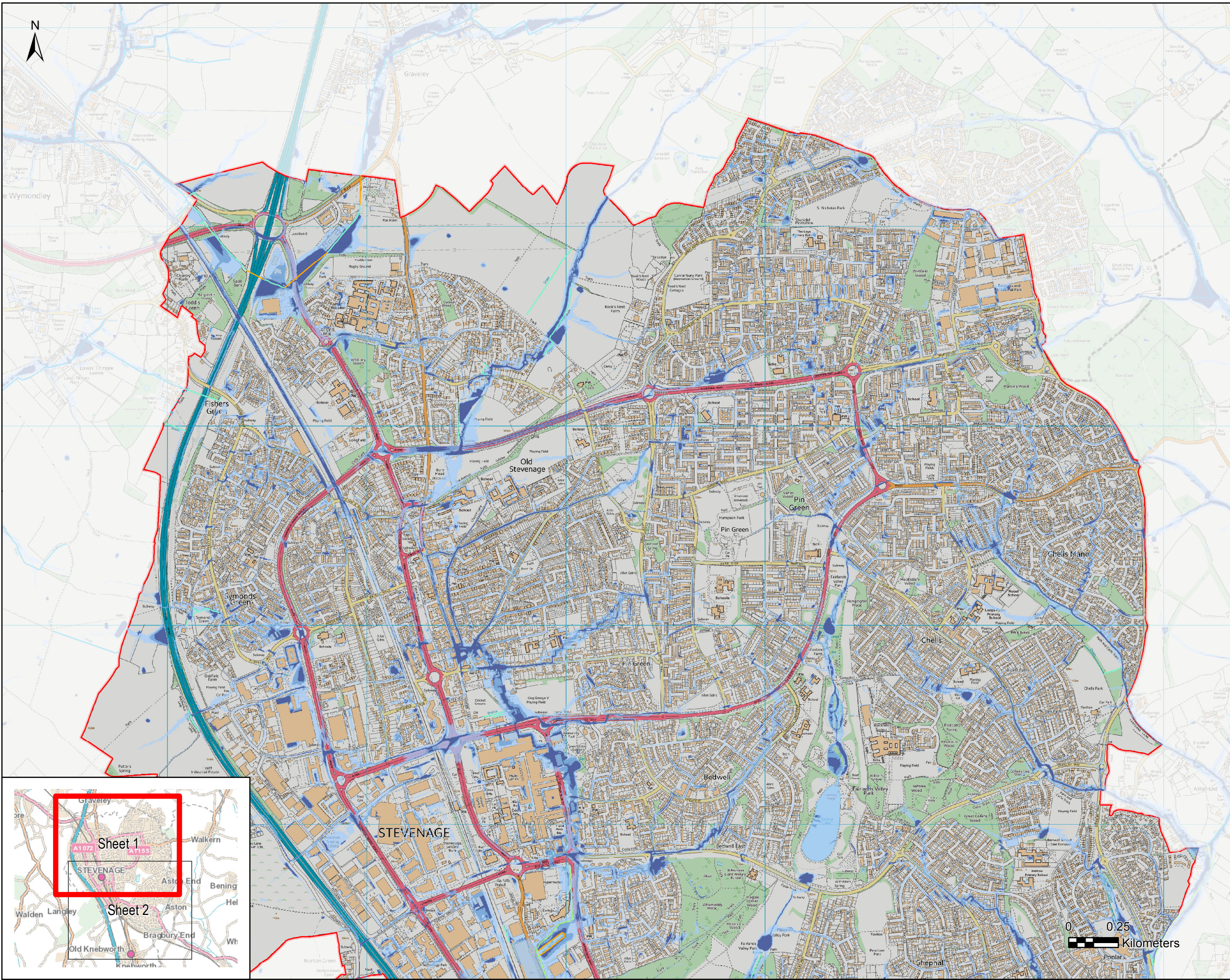
This map is intended to provide a strategic overview of fluvial flood risk and should not be used to assess flood risk for individual properties.

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Project Title	STEVENAGE BOROUGH COUNCIL STRATEGIC FLOOD RISK ASSESSMENT						
Drawing Title	FLOODING FROM RIVERS SHEET 2 OF 2						
Drawn	LM	Checked	GB	Approved	FC	Date	13/06/2016
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FIGURE 03.2						2	







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**LEGEND**

**Watercourses**

- Ordinary Watercourses (Culverted)
- Ordinary Watercourses (Surface Level)
- Main Rivers

**Risk of flooding**

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

**Notes**

This map shows the predicted likelihood of surface water flooding based on the Environment Agency's updated Flood Map for Surface Water (uFMSW) data, which may be subject to further analysis in the future. Further information is provided on the Environment Agency website ([www.gov.uk/environment-agency](http://www.gov.uk/environment-agency)).

The Risk from Surface Water Flooding is divided into 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 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.

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Client  
**Stevenage BOROUGH COUNCIL**

Project Title  
**STEVENAGE BOROUGH COUNCIL  
STRATEGIC FLOOD  
RISK ASSESSMENT**

Drawing Title  
**FLOODING FROM THE LAND  
SHEET 1 OF 2**

Drawn LM	Checked GB	Approved FC	Date 13/06/2016
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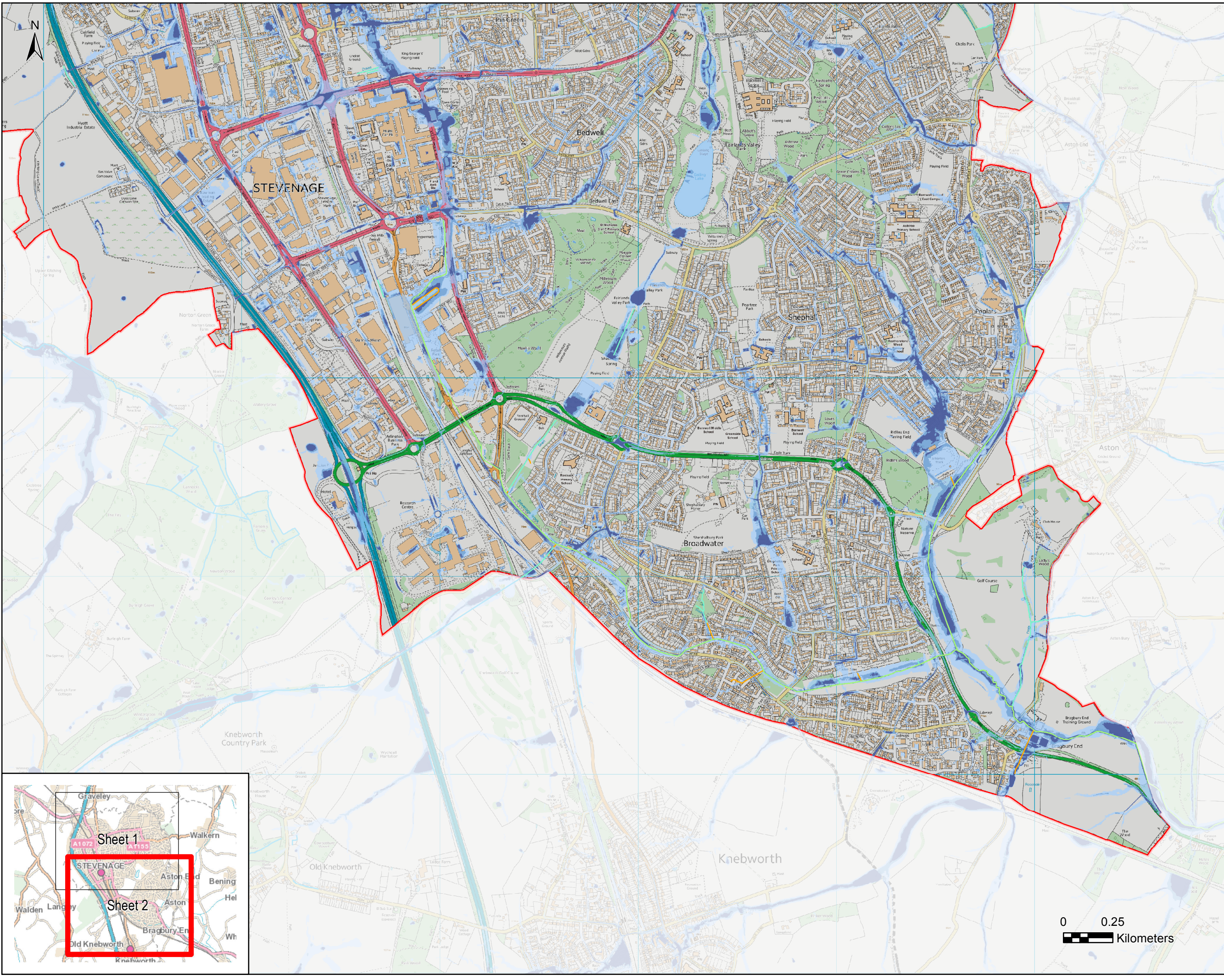
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Drawing Number <b>FIGURE 04.1</b>	Rev. <b>2</b>
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### LEGEND

**Watercourses**

- Ordinary Watercourses (Culverted)
- Ordinary Watercourses (Surface Level)
- Main Rivers

**Risk of flooding**

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

**Notes**

This map shows the predicted likelihood of surface water flooding based on the Environment Agency's updated Flood Map for Surface Water (uFMSW) data, which may be subject to further analysis in the future. Further information is provided on the Environment Agency website ([www.gov.uk/environment-agency](http://www.gov.uk/environment-agency)).

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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).

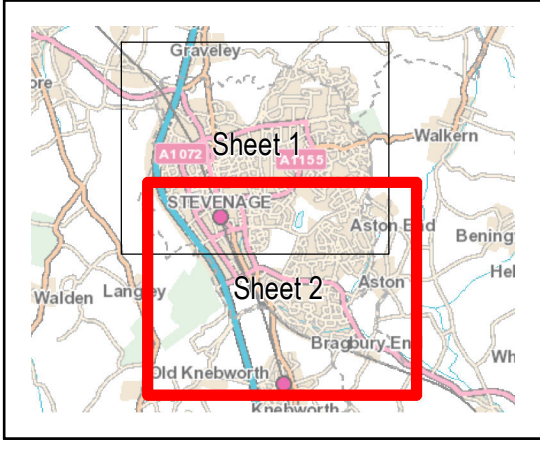
Surface water flooding happens when rainwater does not drain away through the normal drainage systems or soak into the ground, but lies on or flows over the ground instead. This type of flooding can be difficult to predict as it is hard to forecast exactly where or how much rain will fall in any storm.

This 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.

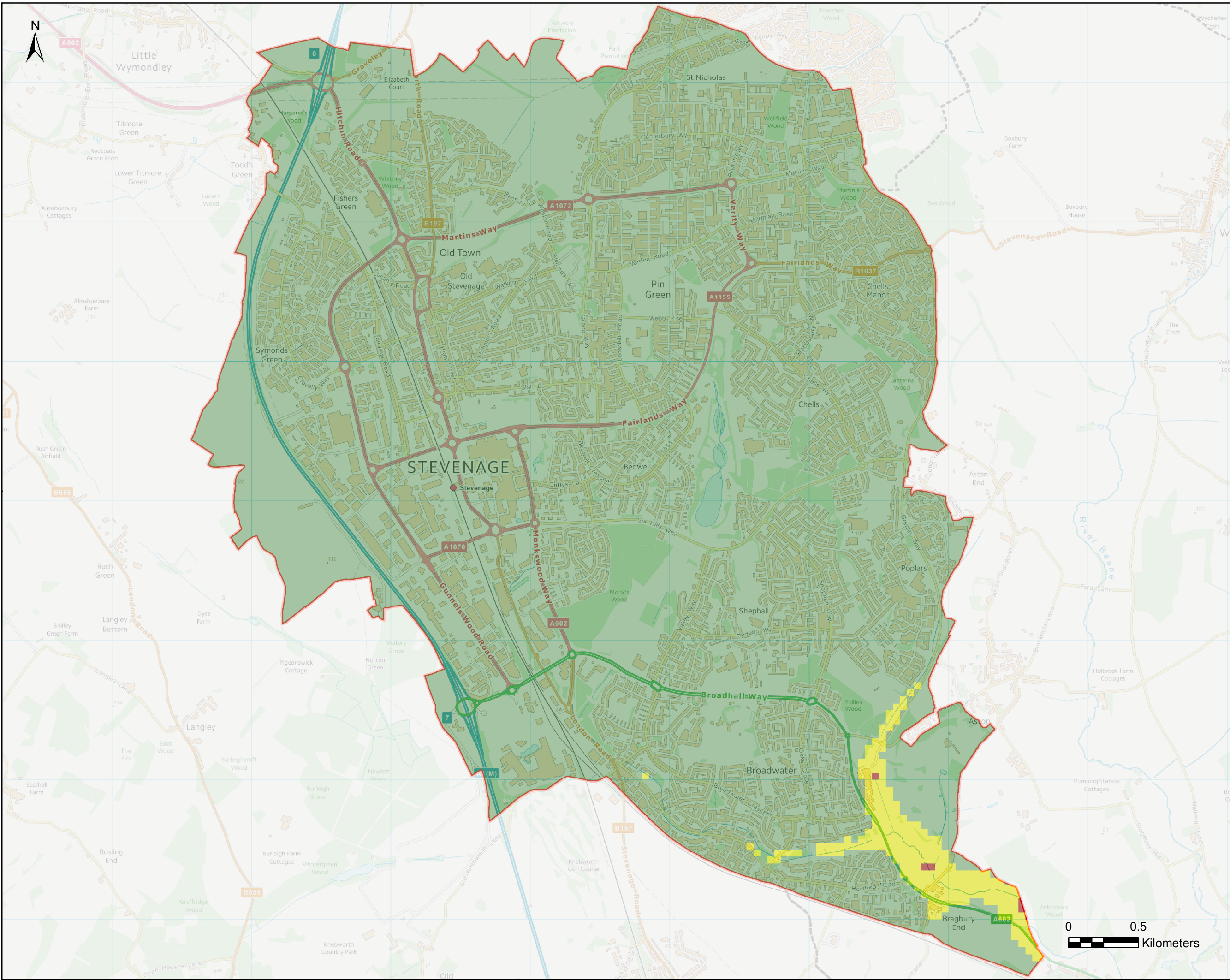
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Revision Details	By Check	Check Date	Suffix
Purpose of Issue	FINAL		
Client	<b>Stevenage</b> BOROUGH COUNCIL		
Project Title	STEVENAGE BOROUGH COUNCIL STRATEGIC FLOOD RISK ASSESSMENT		
Drawing Title	FLOODING FROM THE LAND SHEET 2 OF 2		
Drawn LM	Checked GB	Approved FC	Date 13/06/2016
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Drawing Number <b>FIGURE 04.2</b>			Rev <b>2</b>

0 0.25  
Kilometers







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**LEGEND**

**BGS Susceptibility to Groundwater Flooding**

- Potential for groundwater flooding to occur at surface
- Potential for groundwater flooding of property situated below ground level
- Limited potential for groundwater flooding to occur
- Stevenage Borough

**Notes**

The 1:50,000 scale digital map data is generalised and the geological interpretation should be used only as a guide to the geology at a local level, not as a site-specific geological plan based on detailed site investigations.

This map is intended to provide a strategic overview of susceptibility to groundwater flooding and should not be used to assess flood risk for individual properties.

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Client  
**Stevenage BOROUGH COUNCIL**

Project Title  
**STEVENAGE BOROUGH COUNCIL STRATEGIC FLOOD RISK ASSESSMENT**

Drawing Title  
**GROUNDWATER FLOODING**

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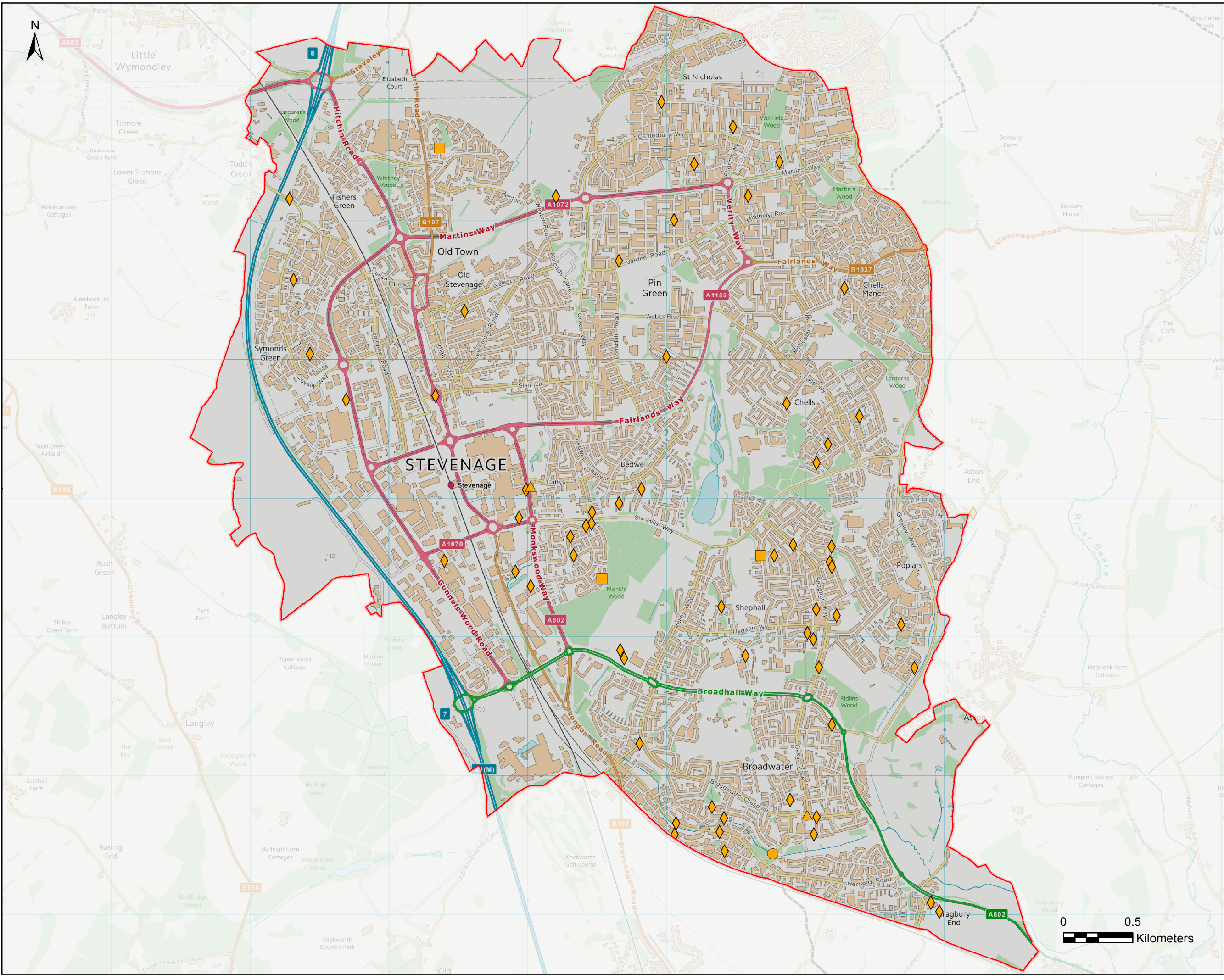
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Drawing Number <b>FIGURE 05</b>	Rev. <b>2</b>
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**LEGEND**

**Flood Type**

- Surface Water
- Land Drainage
- Foul and Surface Water
- No Data
- Stevenage Borough

**Notes**

This map shows the approximate location of historic records collected in the Stevenage Borough Council flooding database which identifies events where surface water, foul or land drainage flooding has occurred.

This map is intended to provide a strategic overview of historic data from flooding database and should not be used to assess flood risk for individual properties as the location for each point might not be accurate.

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Client

**Stevenage**  
BOROUGH COUNCIL

Project Title

STEVENAGE BOROUGH COUNCIL  
STRATEGIC FLOOD  
RISK ASSESSMENT

Drawing Title

HISTORIC RECORDS  
FROM FLOODING DATABASE

Drawn	Checked	Approved	Date
LM	GB	FC	13/06/2016

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60486866

Scale at A3  
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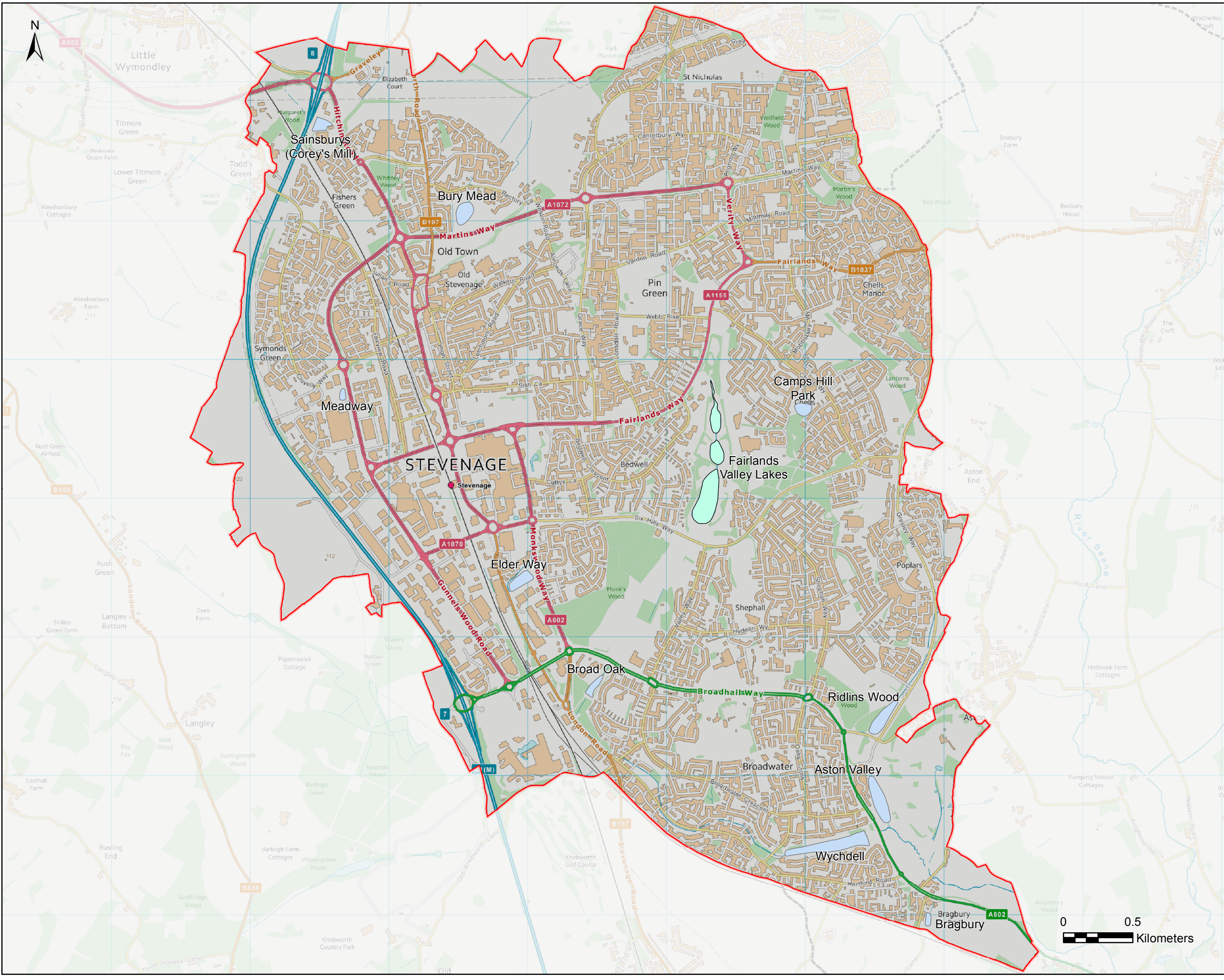
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Drawing Number	Rev.
FIGURE 06	2





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**LEGEND**

- Fairlands Valley Lakes
- Flood Storage Reservoir
- Stevenage Borough

**Notes**

This map shows flood storage reservoirs (FSRs), land designated and operated to store flood water.

All of the Large Reservoirs and FSRs located within the boundary of Stevenage Borough Council are included within the functional floodplain (Flood Zone 3b).

Fairlands Valley Lakes were created as amenity lakes and are operated as such. However, the largest lake, also known as "Boating Lake" is considered to be a FSR by the Environment Agency.

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BOROUGH COUNCIL

Project Title

STEVENAGE BOROUGH COUNCIL  
STRATEGIC FLOOD  
RISK ASSESSMENT

Drawing Title

ARTIFICIAL SOURCES

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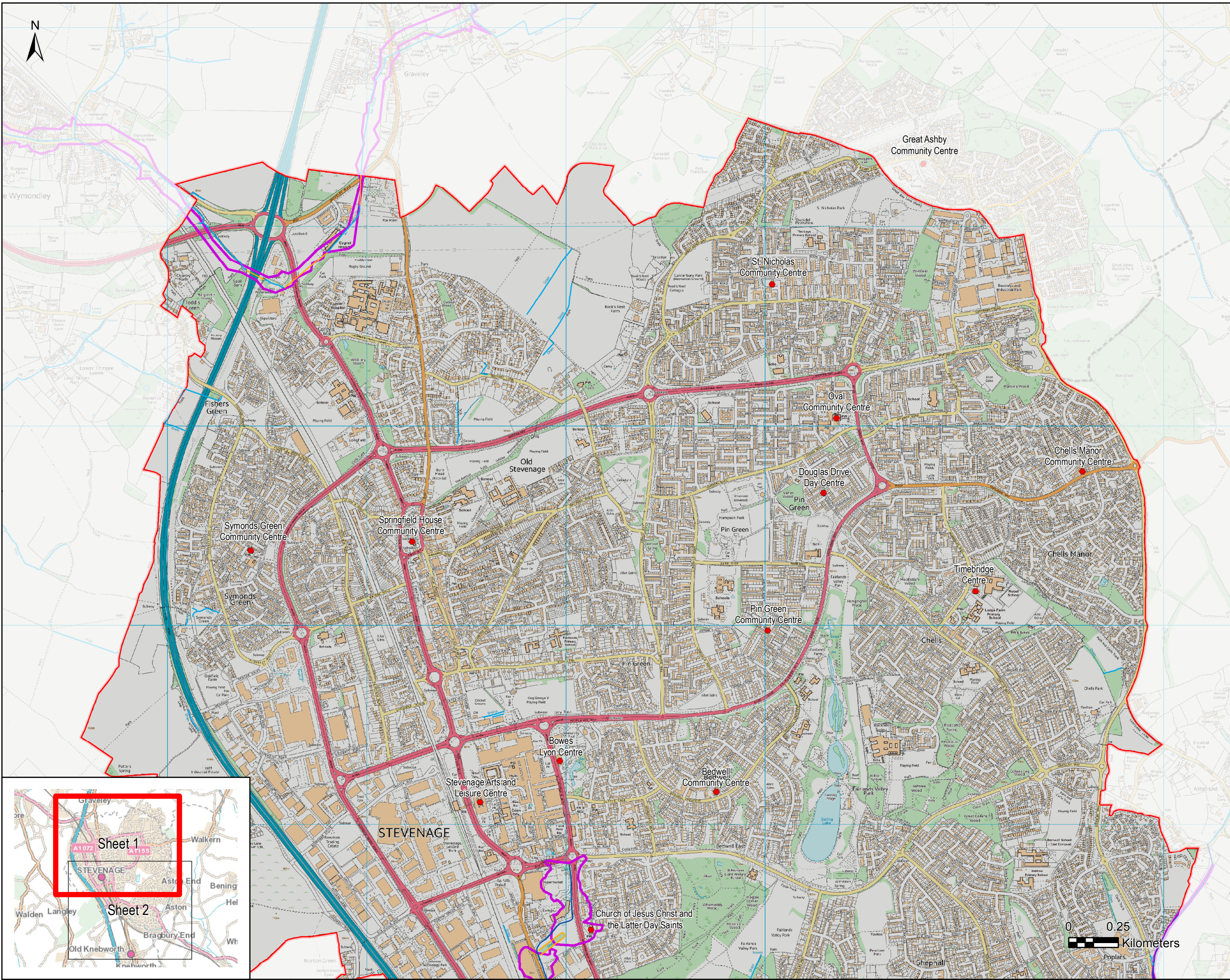
**FIGURE 07**

Rev.

**2**

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**LEGEND**

**Watercourses**

- Ordinary Watercourses (Culverted)
- Ordinary Watercourses (Surface Level)
- Main Rivers

**Flood Response Measures**

- Flood Warning Areas
- Flood Alert Areas
- Reception Centres
- Stevenage Borough

**Notes**

The Environment Agency provides a free flood warning service for many areas at risk of flooding from rivers and the sea. In some parts of England the Environment Agency may be able to provide warnings when flooding from groundwater is possible. The Environment Agency free flood warning service can provide advance notice of flooding and can provide time to prepare.

The Environment Agency issues flood warnings to homes and businesses when flooding is expected. Upon receipt of a flood warning, occupants should take immediate action.

The Environment Agency issues flood alerts when flooding is possible. Flood alerts cover larger areas than flood warnings and are issued more frequently. Upon receipt of a flood alert, occupants should be prepared for flooding and to take action.

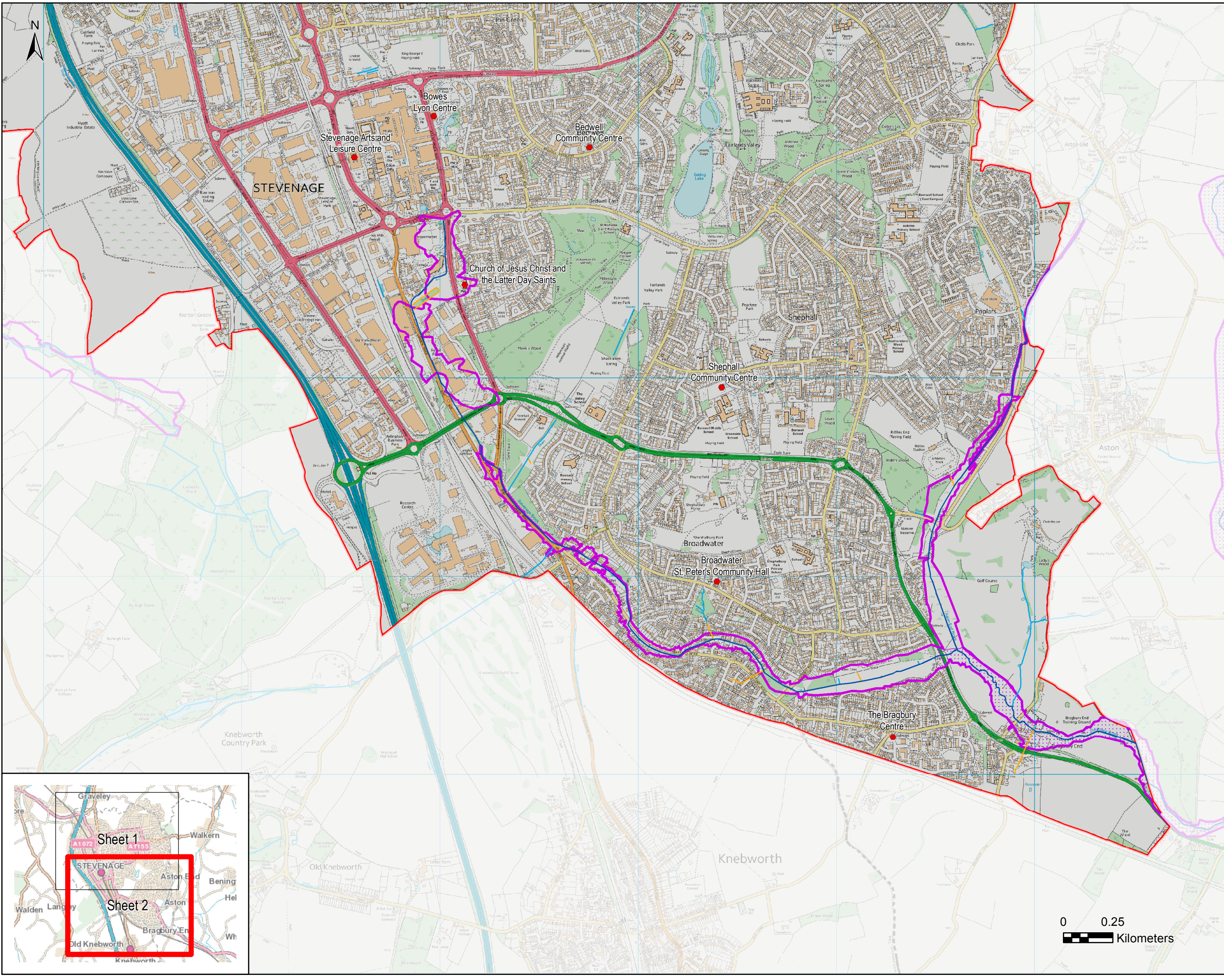
If a flood alert for groundwater is available this does not mean that your property is definitely at risk. It is very difficult to predict the exact location of flooding from groundwater as it is often related to local geology. To help people, the Environment Agency provides flood alerts for large areas that could be affected if groundwater levels were high.

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Client	<b>Stevenage</b> BOROUGH COUNCIL		
Project Title	STEVENAGE BOROUGH COUNCIL STRATEGIC FLOOD RISK ASSESSMENT		
Drawing Title	FLOOD RESPONSE MEASURES SHEET 1 OF 2		
Drawn	Checked	Approved	Date
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Drawing Number <b>FIGURE 08.1</b>			Rev. <b>2</b>

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**LEGEND**

**Watercourses**

- Ordinary Watercourses (Culverted)
- Ordinary Watercourses (Surface Level)
- Main Rivers

**Flood Response Measures**

- Flood Warning Areas
- Flood Alert Areas
- Reception Centres
- Stevenage Borough

**Notes**

The Environment Agency provides a free flood warning service for many areas at risk of flooding from rivers and the sea. In some parts of England the Environment Agency may be able to provide warnings when flooding from groundwater is possible. The Environment Agency free flood warning service can provide advance notice of flooding and can provide time to prepare.

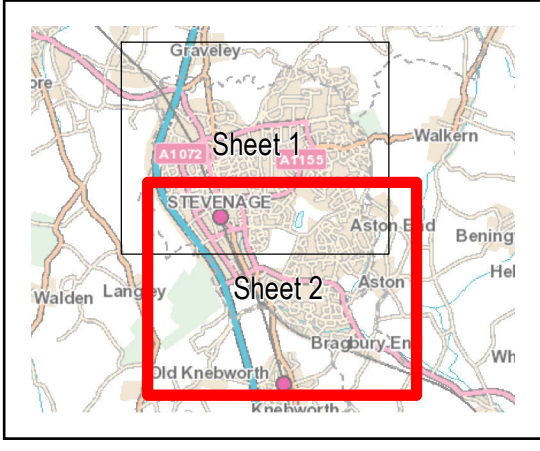
The Environment Agency issues flood warnings to homes and businesses when flooding is expected. Upon receipt of a flood warning, occupants should take immediate action.

The Environment Agency issues flood alerts when flooding is possible. Flood alerts cover larger areas than flood warnings and are issued more frequently. Upon receipt of a flood alert, occupants should be prepared for flooding and to take action.

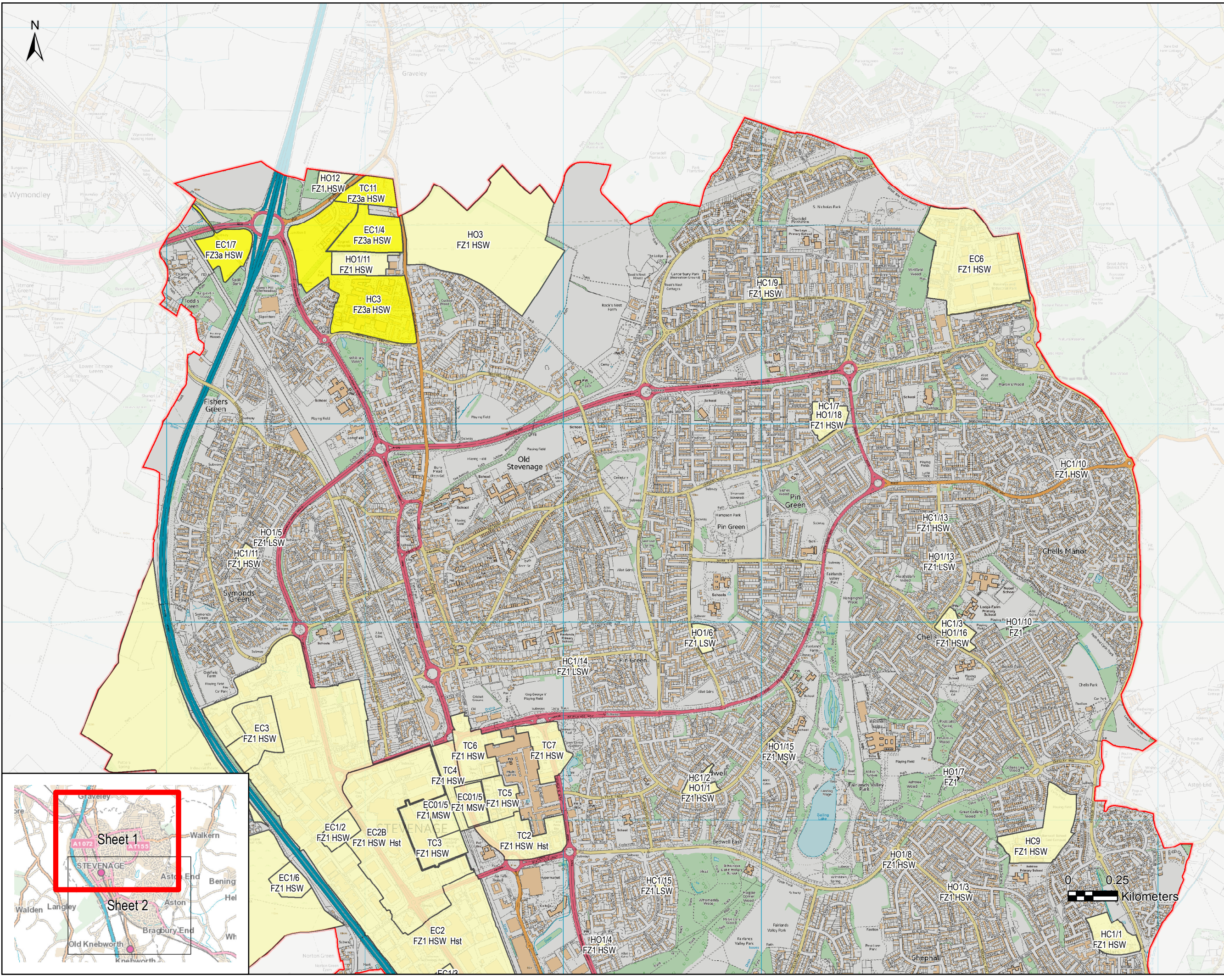
If a flood alert for groundwater is available this does not mean that your property is definitely at risk. It is very difficult to predict the exact location of flooding from groundwater as it is often related to local geology. To help people, the Environment Agency provides flood alerts for large areas that could be affected if groundwater levels were high.

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Revision Details	By	Check	Date	Suffix
Purpose of Issue	FINAL			
Client				
Project Title	STEVENAGE BOROUGH COUNCIL STRATEGIC FLOOD RISK ASSESSMENT			
Drawing Title	FLOOD RESPONSE MEASURES SHEET 2 OF 2			
Drawn	Checked	Approved	Date	
LM	GB	FC	13/06/2016	
AECOM Internal Project No. 60486866		Scale at A3 1:17,500		
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Drawing Number <b>FIGURE 08.2</b>				Rev. <b>2</b>







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**LEGEND**

**Overall Risk**

- High
- Medium
- Low
- No Identified Risk
- Stevenage Borough

**Notes**

This map shows the overall flood risk from different sources for proposed development sites. Definitions of high, medium and low risks are provided in the SFRA Report. Each proposed site is labeled according to its risk from the different sources of flooding as follows:

**Flood Risk Zones**

FZ3a – The site contains an area of Flood Zone 3a (land where water has to flow or be stored in times of flood, or land purposely designed to flood in an extreme event. For the purpose of this SFRA, land modelled to have a probability of 5% or greater has been used to delineate Flood Zone 3a).

FZ3b – The site contains an area of Flood Zone 3b (land having a 1 in 100 or greater annual probability of river flooding in any year).

FZ2 – The site contains an area of Flood Zone 2 (land having between a 1 in 100 and 1 in 1,000 annual probability of river flooding in any year).

FZ1 – The site contains an area of Flood Zone 1 (land having a less than 1 in 1,000 annual probability of river flooding in any year).

**Risk from Surface Water Flooding**

HSW – The site contains an area of high risk (each year, the chance of flooding is greater than 1 in 30).

MSW – The site contains an area of medium risk (each year, the chance of flooding is between 1 in 100 and 1 in 30).

LSW – The site contains an area of low risk (each year, the chance of flooding is between 1 in 1000 and 1 in 100).

**Risk from Groundwater Flooding**

MGRW – The site contains an area catalogued as having medium risk of groundwater flooding.

HGRW – The site contains an area catalogued as having high risk of groundwater flooding.

**Historic Records**

Hst – The site contains either an area inside the combined extents of known flooding from rivers or an event from the flooding database.

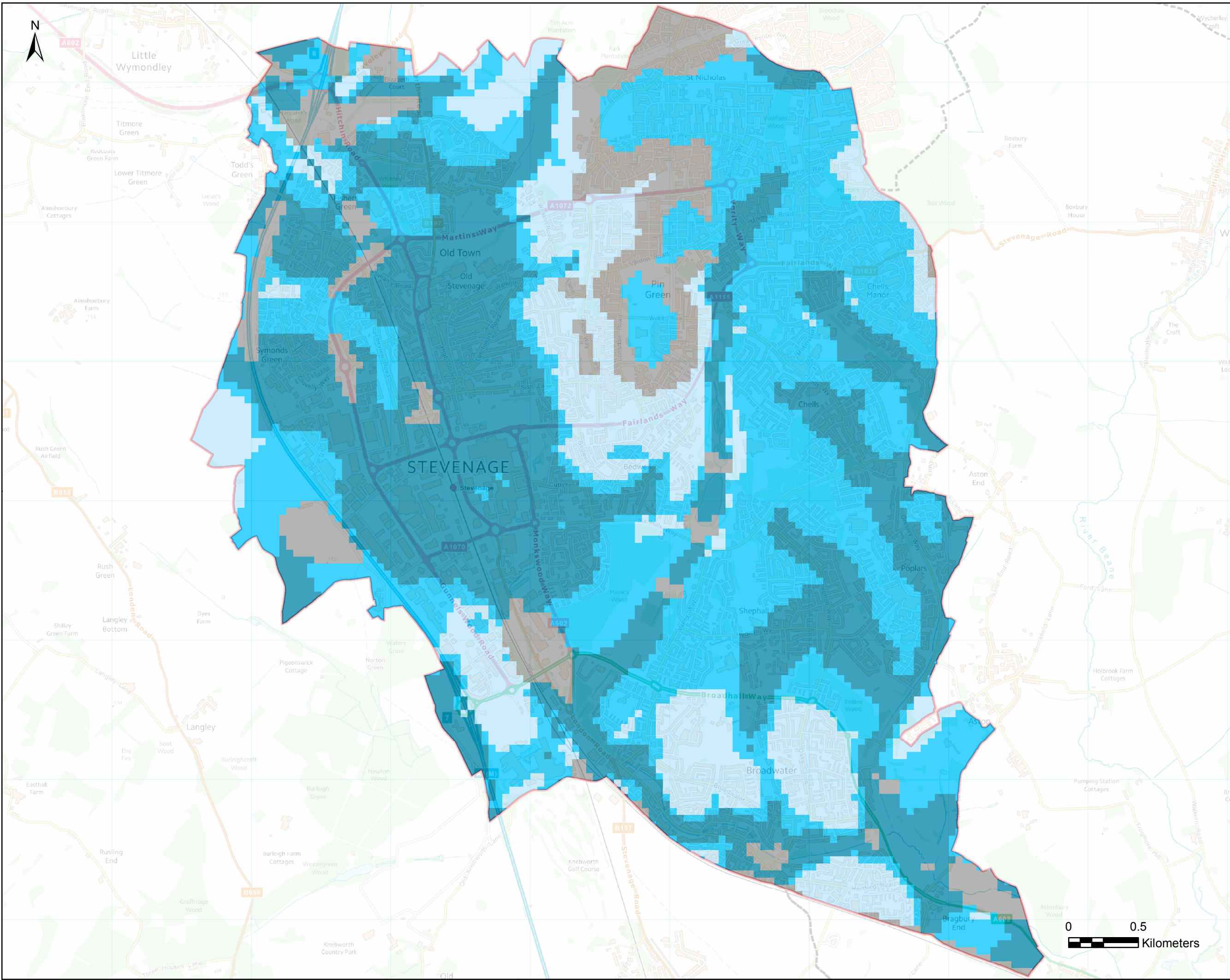
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Revision Details	By	Check	Date	Suffix
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Client	<b>Stevenage</b> BOROUGH COUNCIL			
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Drawing Title	LOCAL PLAN SITES FLOOD RISK SHEET 1 OF 2			
Drawn	Checked	Approved	Date	
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Drawing Number <b>FIGURE 09.1</b>				Rev. <b>2</b>









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**LEGEND**

**BGS Infiltration SuDS Suitability Map (Detailed)**

- Highly compatible for infiltration SuDS
- Probably compatible for infiltration SuDS
- Opportunities for bespoke infiltration SuDS
- Very significant constraints are indicated
- Stevenage Borough

**Notes**

The 1:50,000 scale digital map data is generalised and the geological interpretation should be used only as a guide to the geology at a local level, not as a site-specific geological plan based on detailed site investigations.

Descriptions of each of the categories are as follows:

- Highly compatible for infiltration SuDS: The subsurface is likely to be suitable for free-draining infiltration SuDS.
- Probably compatible for infiltration SuDS: The subsurface is probably suitable for infiltration SuDS although the design may be influenced by the ground conditions.
- Opportunities for bespoke infiltration SuDS: The subsurface is potentially suitable for infiltration SuDS although the design will be influenced by the ground conditions.
- Very significant constraints are indicated: There is a very significant potential for one or more geohazards associated with infiltration.

A range of other types of SuDS measures can be adopted in areas where infiltration SuDS is not particularly suitable.

This map is intended to provide a strategic overview of infiltration SuDS suitability and should not be used to assess suitability for individual properties.

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Drawing Title	BGS INFILTRATION SUDS SUITABILITY MAP		
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Drawing Number <b>FIGURE 10</b>			Rev. <b>2</b>