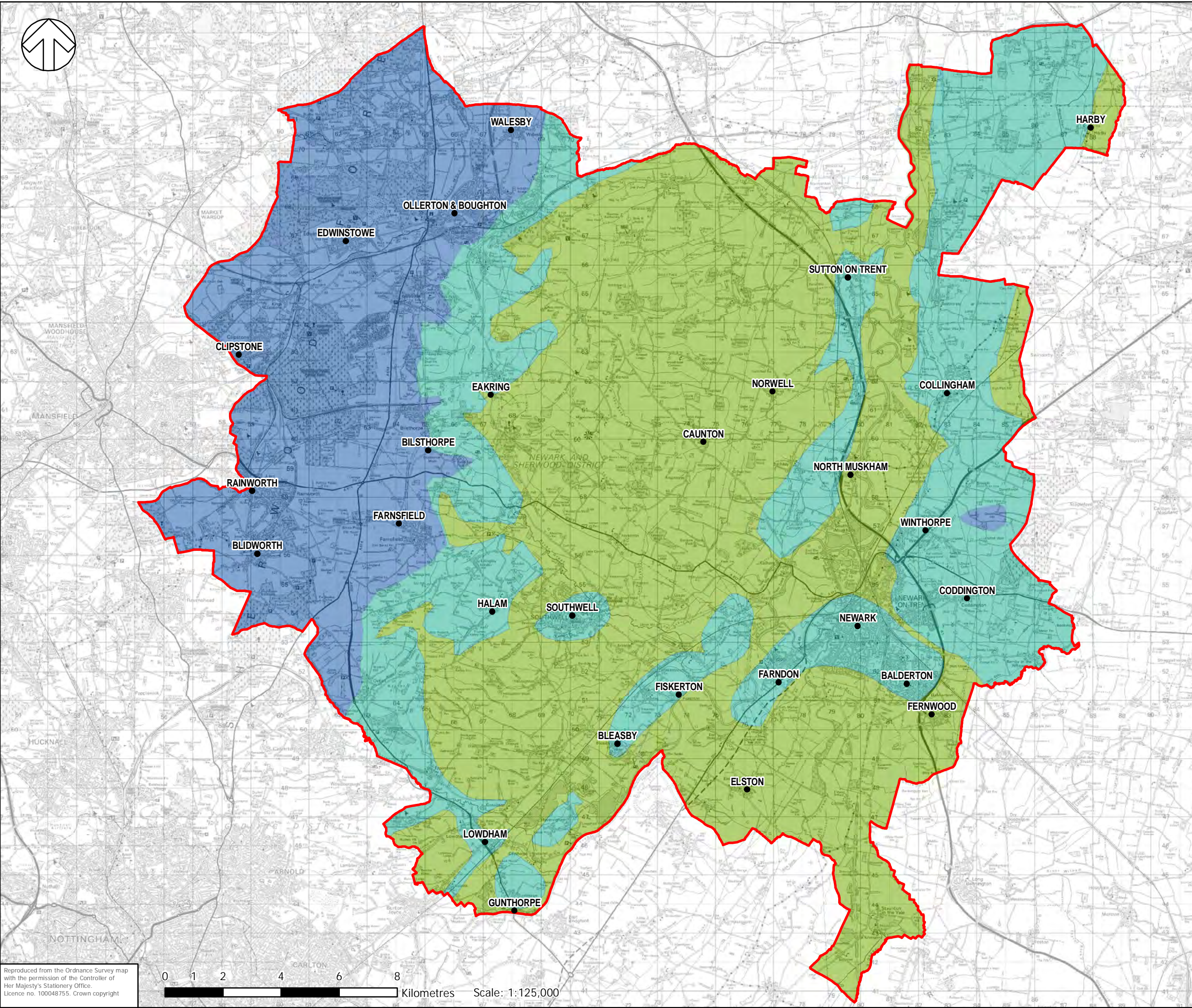





Appendix D Infiltration Feasibility, Source Protection Zone, Groundwater Flooding Information



KEY

-  District Boundary
-  High Potential for Infiltration
-  Uncertain Potential for Infiltration
-  Low Potential for Infiltration

NOTES:

1. This drawing looks at the infiltration potential within the Newark and Sherwood District boundary. The SuDS hierarchy must be applied to all potential developments. Intrusive ground investigations to determine the viability of infiltration must still be undertaken as part of a site specific FRA. Should infiltration SuDS devices prove to be unsuitable based on intrusive ground investigations and BRE 365 soakage tests, then alternative SuDS should be used.
2. In areas with potential for infiltration, reference should be made to the location of various Groundwater Source Protection Zones, see plan 1647 - D - 2.0.
3. This drawing has been produced using information transcribed from the British Geological Survey; Solid and Drift Editions 113, 114 and 126, and the NRA Groundwater Vulnerability Edition 18.



TITLE:
**NEWARK & SHERWOOD
 DISTRICT COUNCIL
 LEVEL 2 SFRA
 PHASE 2**






FIGURE No:
**INFILTRATION FEASIBILITY
 1647 - D - 1.0**

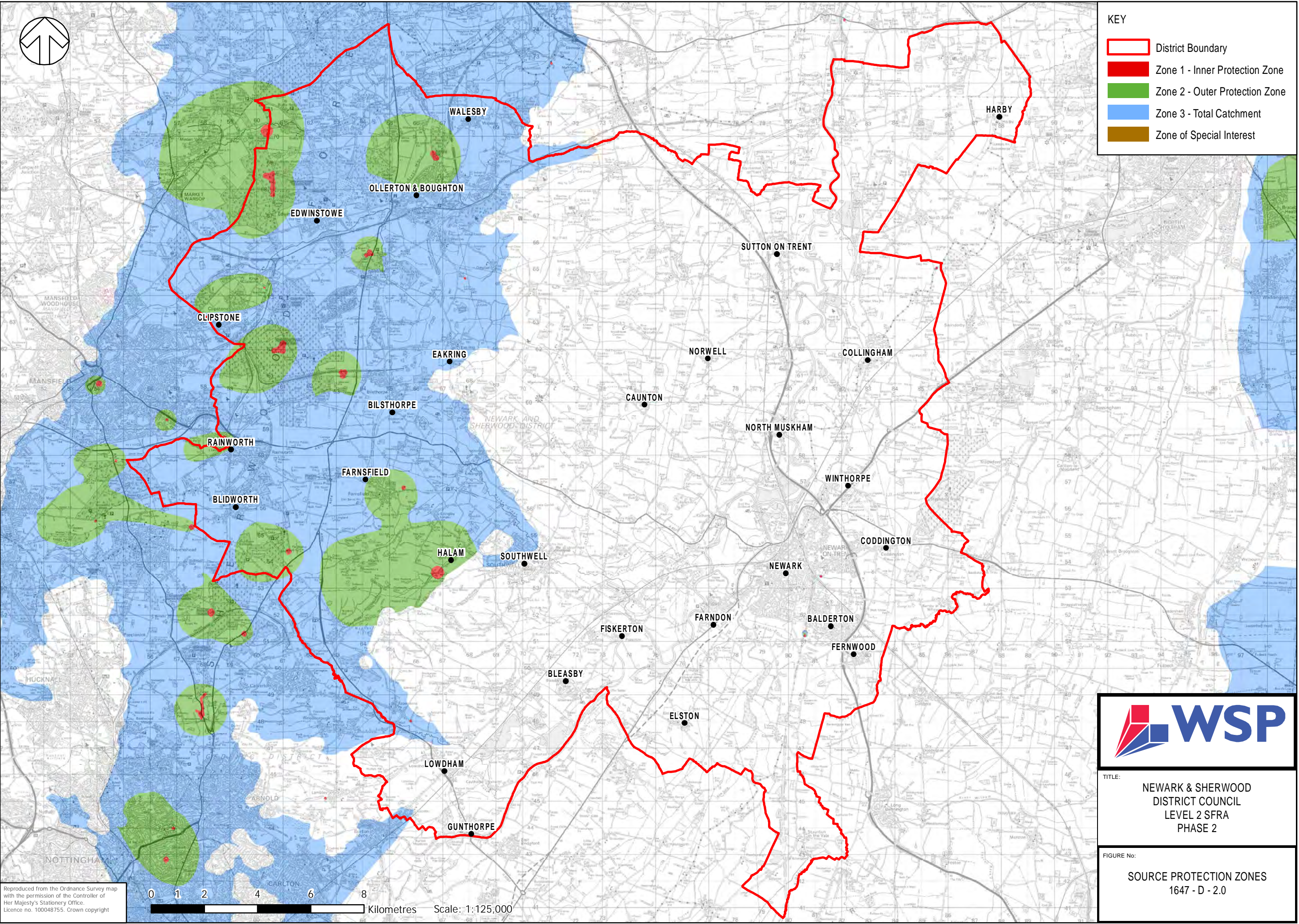
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KEY

-  District Boundary
-  Zone 1 - Inner Protection Zone
-  Zone 2 - Outer Protection Zone
-  Zone 3 - Total Catchment
-  Zone of Special Interest



TITLE:
**NEWARK & SHERWOOD
 DISTRICT COUNCIL
 LEVEL 2 SFRA
 PHASE 2**

FIGURE No:
**SOURCE PROTECTION ZONES
 1647 - D - 2.0**

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0 1 2 4 6 8 Kilometres Scale: 1:125,000



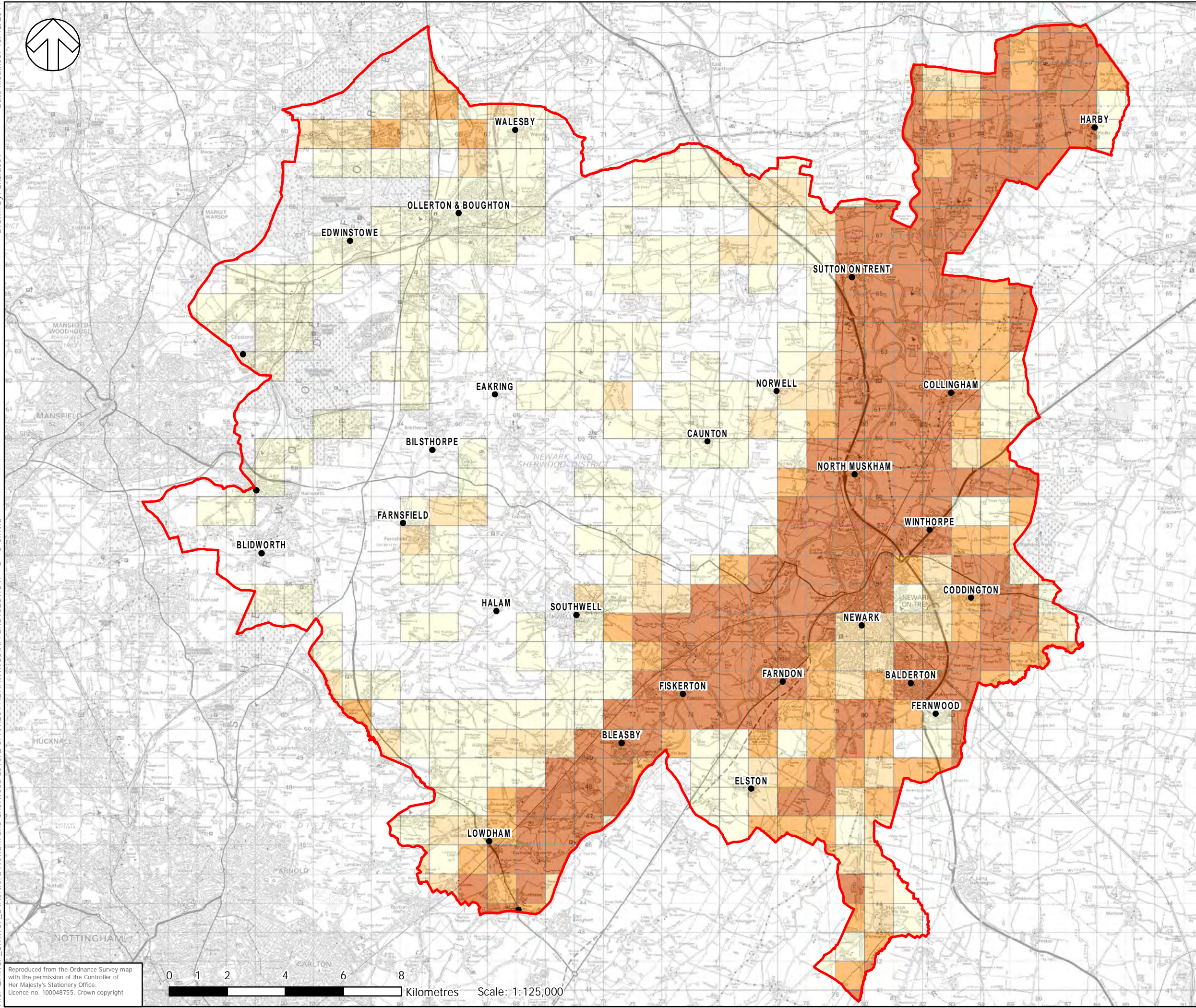
KEY

District Boundary

Areas Susceptible to Groundwater Flooding

RISK

- $\geq 75\%$
- $\geq 50\% < 75\%$
- $\geq 25\% < 50\%$
- $< 25\%$



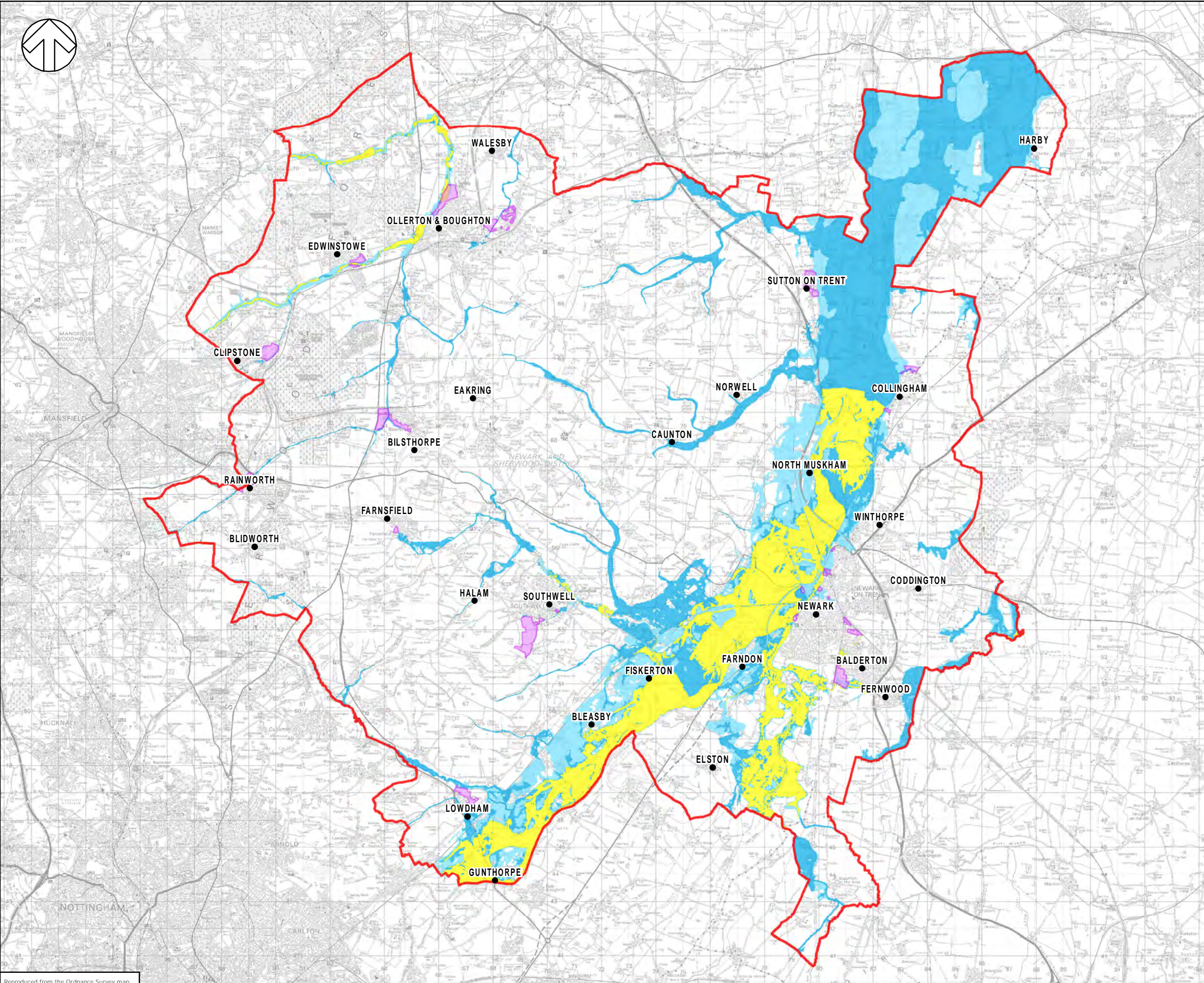
TITLE:
**NEWARK & SHERWOOD
 DISTRICT COUNCIL
 LEVEL 2 SFRA
 PHASE 2**

FIGURE No:
**GROUNDWATER FLOODING INFORMATION
 1647 - D - 3.0**






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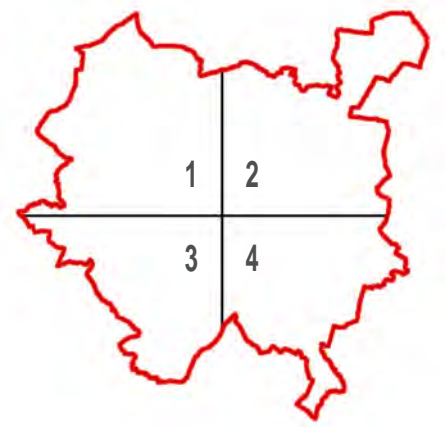
Appendix E Flood Maps, Flood Maps For Surface Water



KEY

-  District Boundary
-  Potential Development Sites
-  Functional Floodplain
-  Flood Zone 2
-  Flood Zone 3

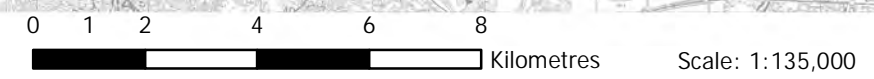
- NOTES:**
1. Functional Floodplain has been taken from a number of hydraulic models of different rivers within the District. These include models of the River Meden, River Maun, River Greet, River Trent (Fluvial), and Upper Witham.
 2. The River Trent area to the north of Cromwell Lock is tidally influenced and does not have a modelled functional floodplain outline.
 3. Where potential development falls within Flood Zone 3a further modelling should be undertaken on a site specific basis to determine the extent of the functional floodplain.

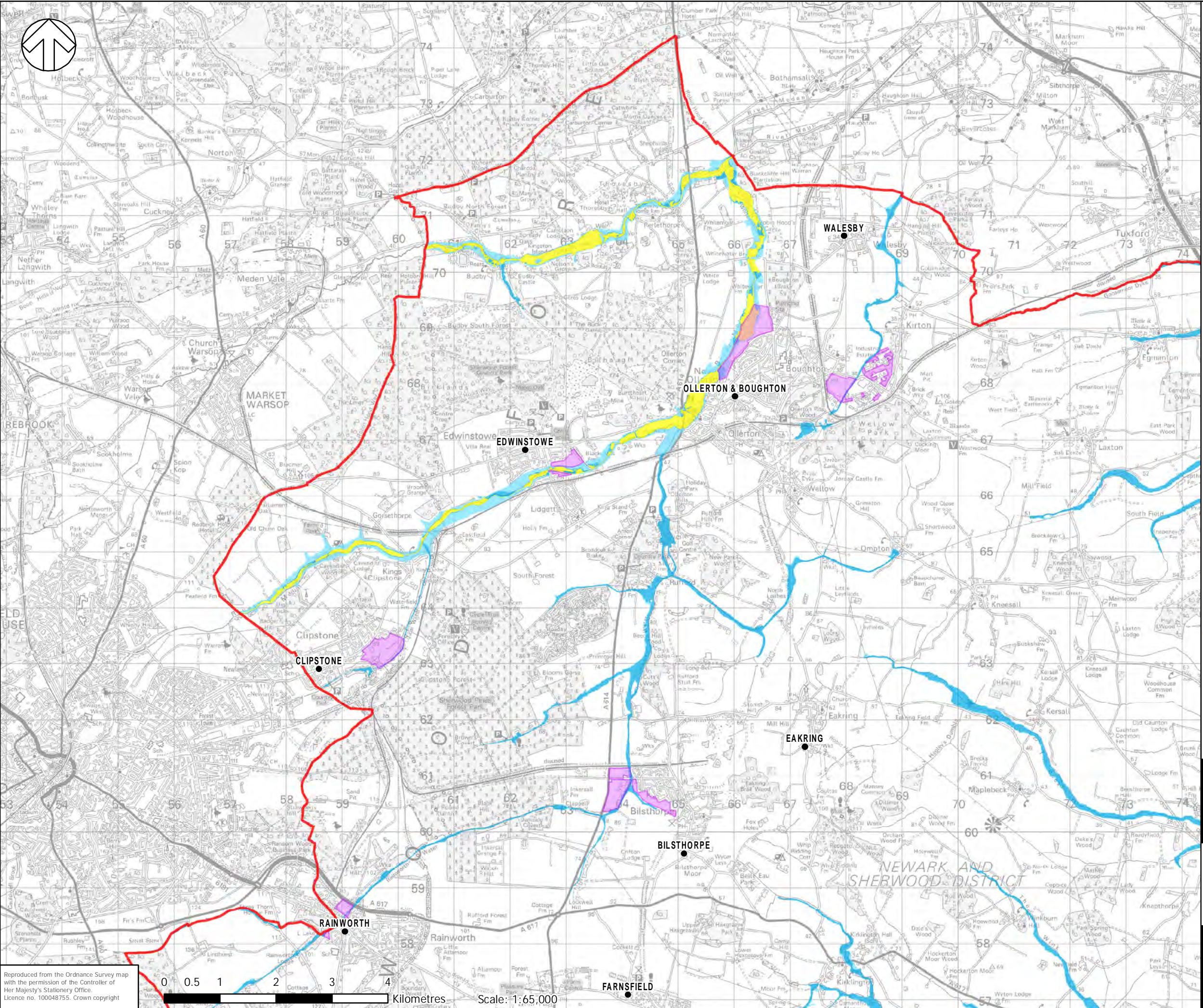


TITLE:
 NEWARK AND SHERWOOD
 DISTRICT COUNCIL
 LEVEL 2 SFRA
 PHASE 2






FIGURE No:
 FLOOD MAP
 1647 - E - 1-0

Reproduced from the Ordnance Survey map with the permission of the Controller of Her Majesty's Stationery Office. Licence no. 100048755. Crown copyright

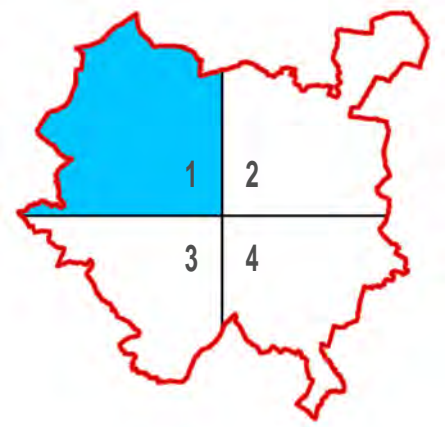




KEY

-  District Boundary
-  Potential Development Sites
-  Functional Floodplain
-  Flood Zone 2
-  Flood Zone 3

- NOTES:**
1. Functional Floodplain has been taken from a number of hydraulic models of different rivers within the District. These include models of the River Meden, River Maun, River Greet, River Trent (Fluvial), and Upper Witham.
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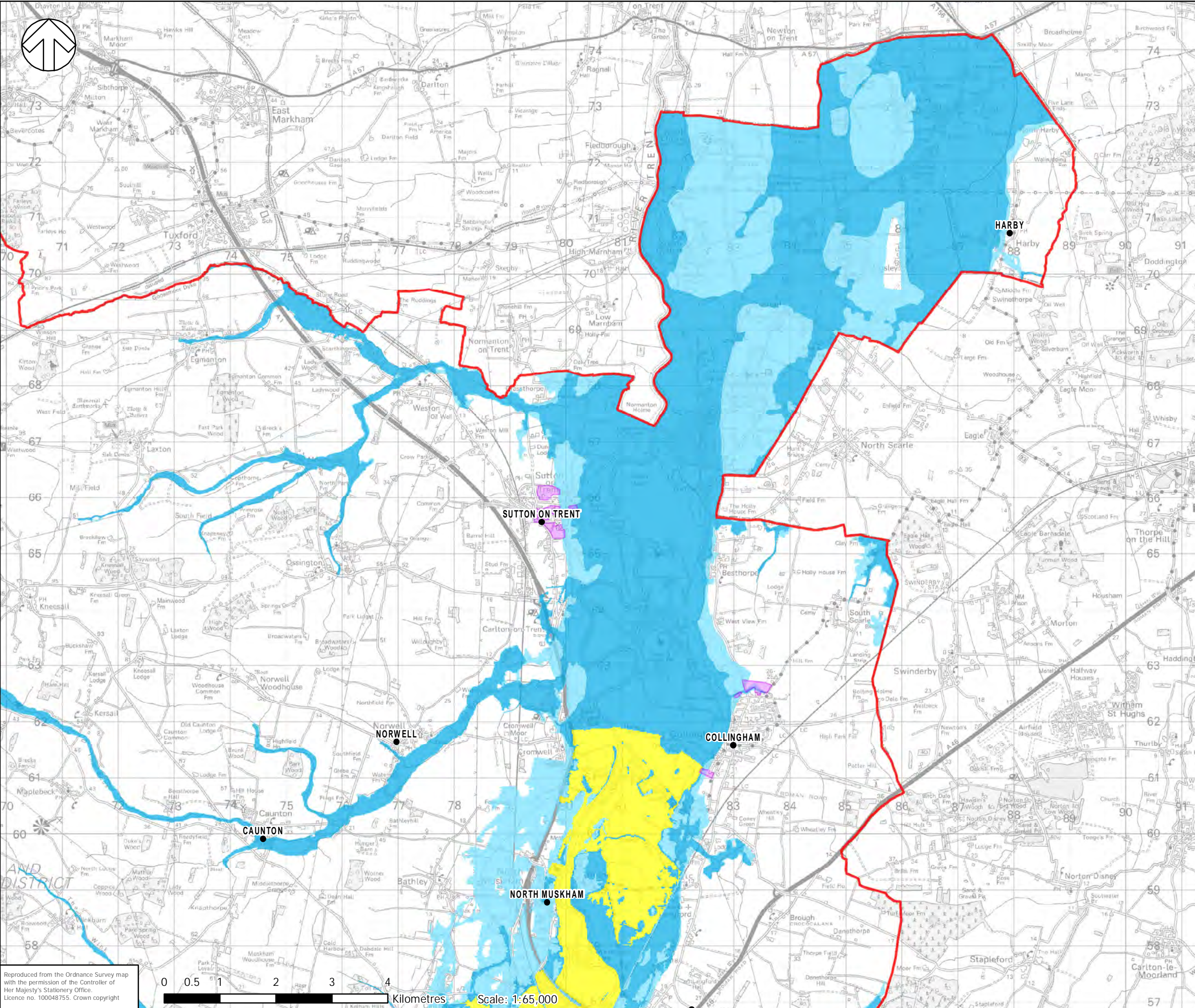


TITLE:
 NEWARK AND SHERWOOD
 DISTRICT COUNCIL
 LEVEL 2 SFRA
 PHASE 2






FIGURE No:
 FLOOD MAP
 1647 - E - 1-1

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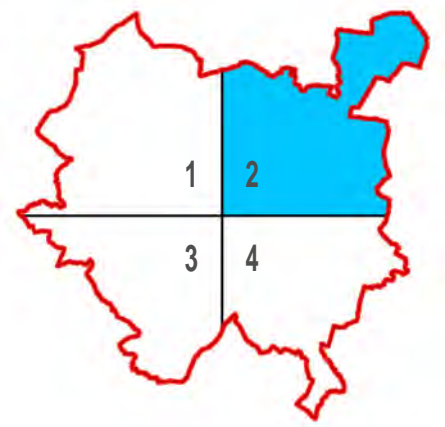


KEY

-  District Boundary
-  Potential Development Sites
-  Functional Floodplain
-  Flood Zone 2
-  Flood Zone 3

NOTES:

1. Functional Floodplain has been taken from a number of hydraulic models of different rivers within the District. These include models of the River Meden, River Maun, River Greet, River Trent (Fluvial), and Upper Witham.
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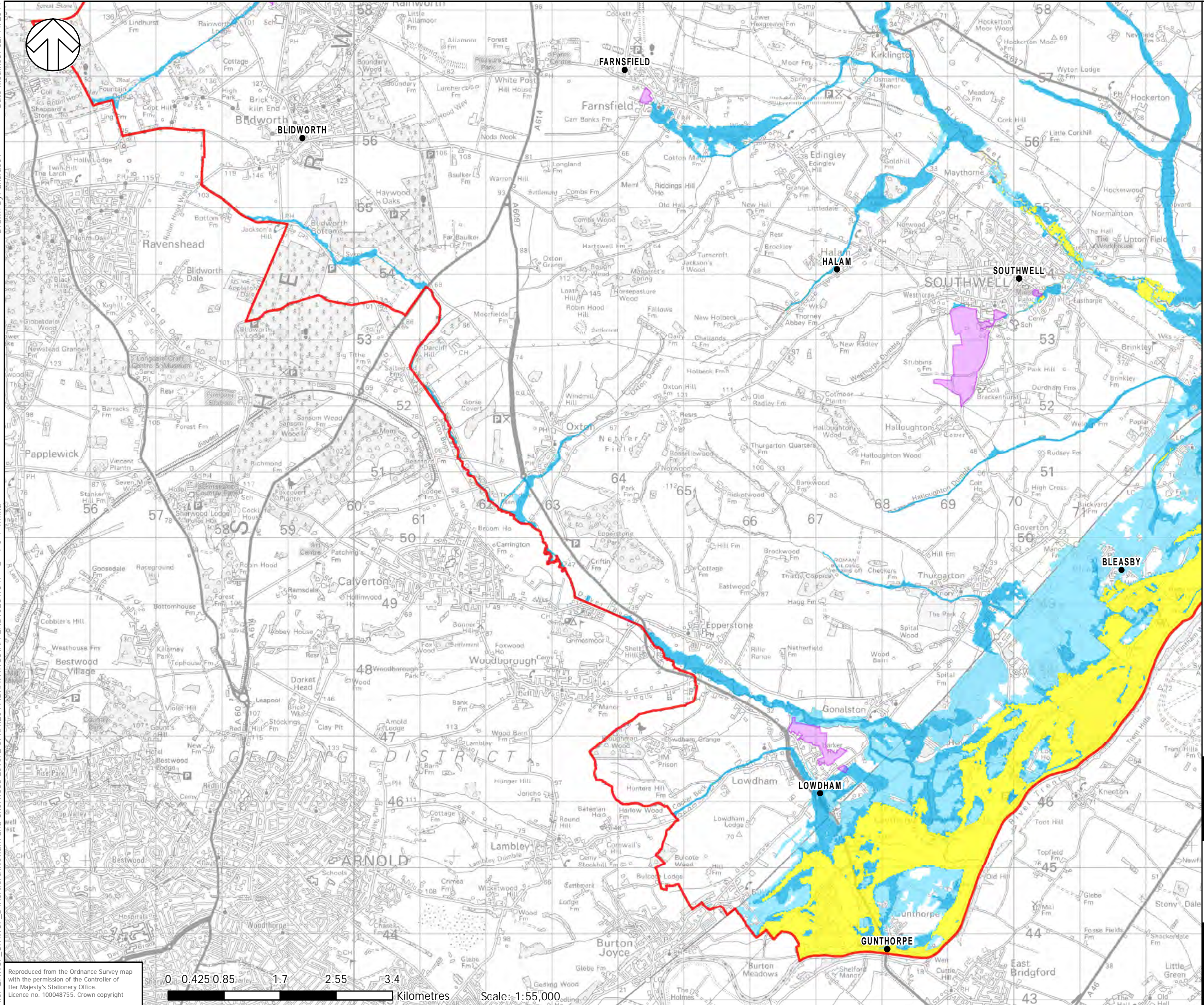


TITLE:
 NEWARK AND SHERWOOD DISTRICT COUNCIL
 LEVEL 2 SFRA
 PHASE 2

FIGURE No:
 FLOOD MAP
 1647 - E - 1-2

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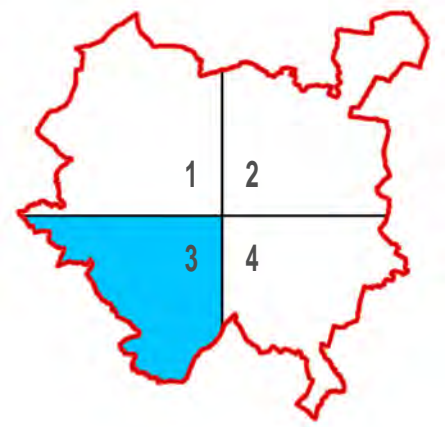




KEY

- District Boundary
- Potential Development Sites
- Functional Floodplain
- Flood Zone 2
- Flood Zone 3

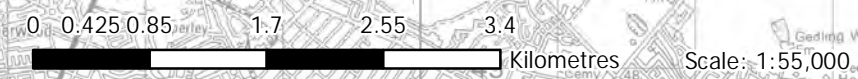
- NOTES:**
1. Functional Floodplain has been taken from a number of hydraulic models of different rivers within the District. These include models of the River Meden, River Maun, River Greet, River Trent (Fluvial), and Upper Witham.
 2. The River Trent area to the north of Cromwell Lock is tidally influenced and does not have a modelled functional floodplain outline.
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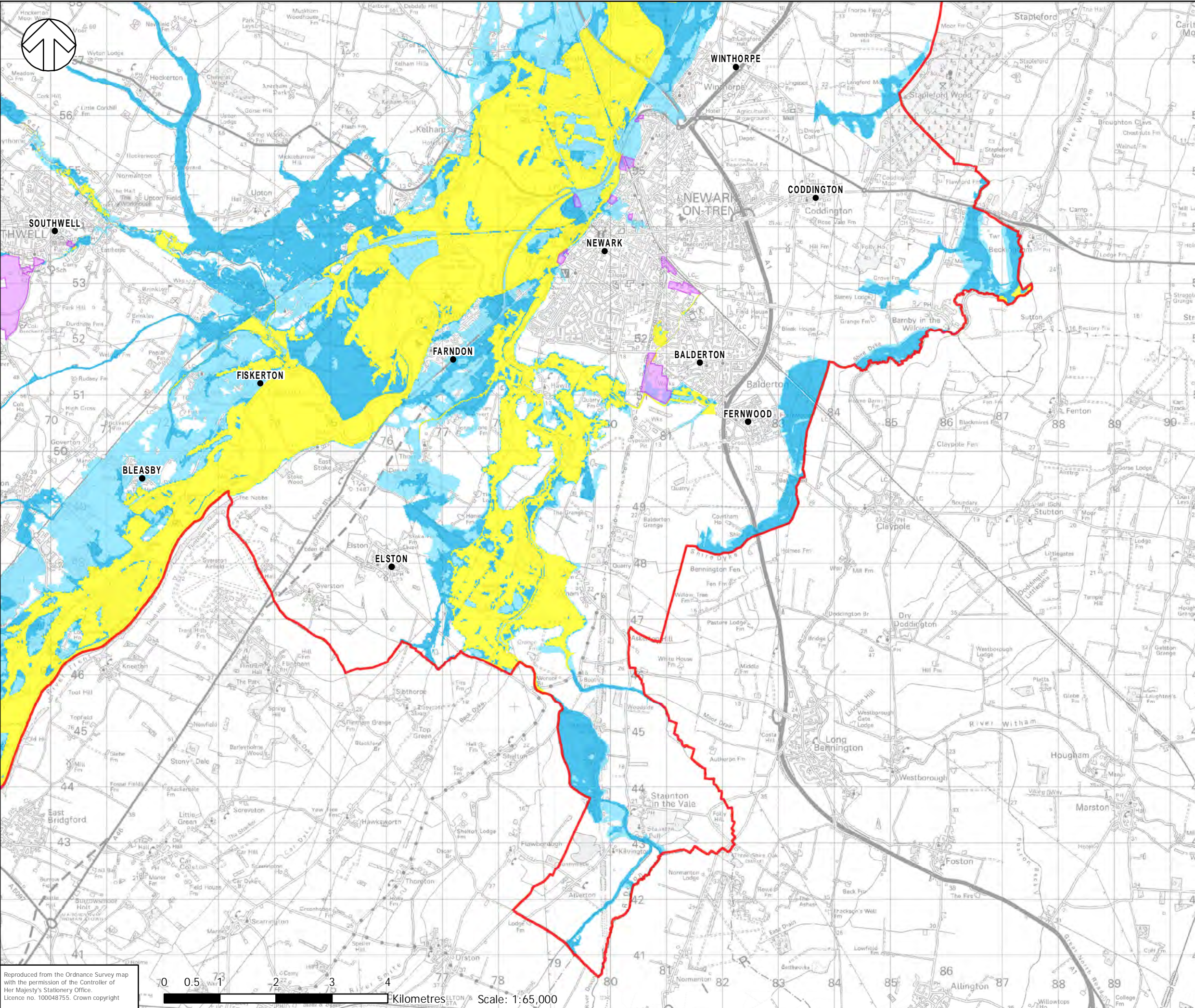


TITLE:
 NEWARK AND SHERWOOD
 DISTRICT COUNCIL
 LEVEL 2 SFRA
 PHASE 2






FIGURE No:
 FLOOD MAP
 1647 - E - 1-3

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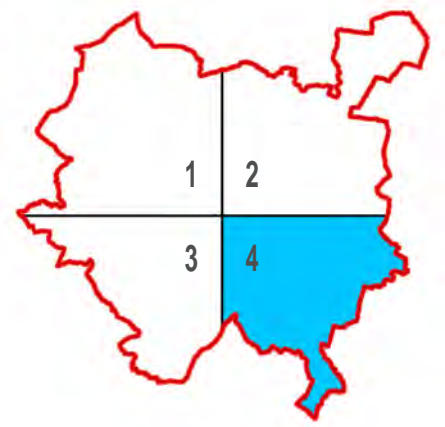




KEY

-  District Boundary
-  Potential Development Sites
-  Functional Floodplain
-  Flood Zone 2
-  Flood Zone 3

- NOTES:**
1. Functional Floodplain has been taken from a number of hydraulic models of different rivers within the District. These include models of the River Meden, River Maun, River Greet, River Trent (Fluvial), and Upper Witham.
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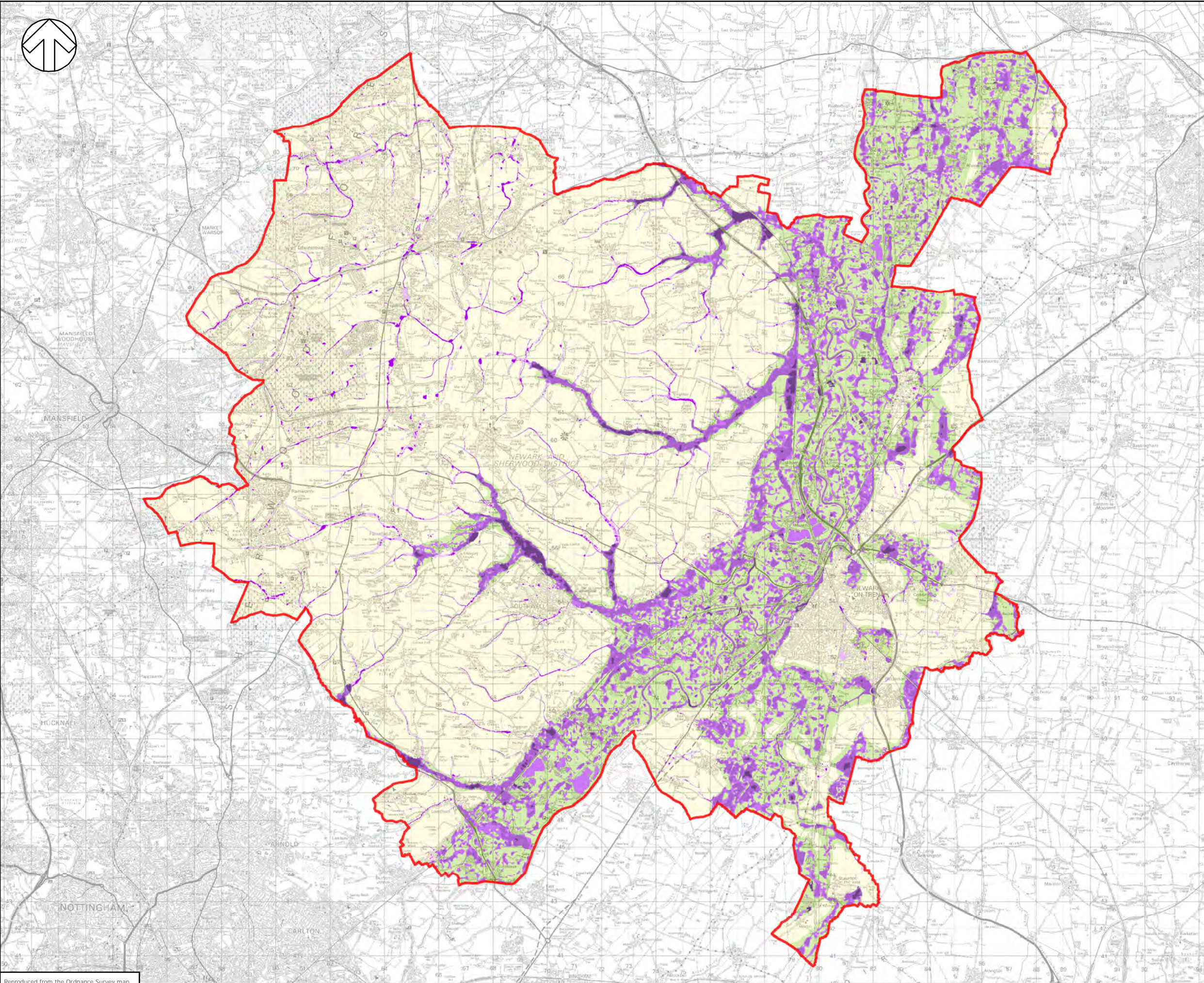


TITLE:
 NEWARK AND SHERWOOD
 DISTRICT COUNCIL
 LEVEL 2 SFRA
 PHASE 2

FIGURE No:
 FLOOD MAP
 1647 - E - 1-4

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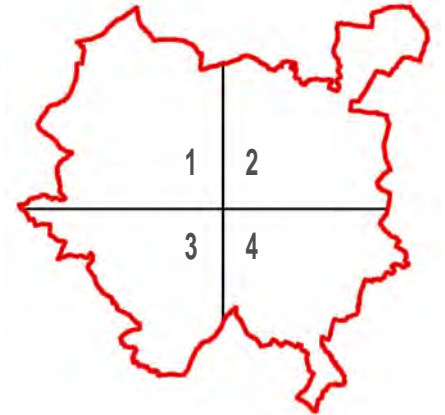


KEY

- District Boundary
- Area Susceptible to Surface Water Flooding**
 - More
 - Intermediate
 - Less
- Flood Map for Surface Water (30 Year)**
 - Deeper (>0.3m)
 - Shallower (0.1-0.3m)

NOTES

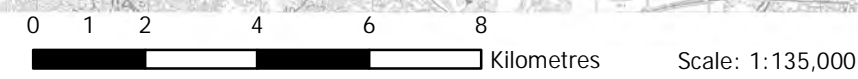
1. The Nottinghamshire Preliminary FRA states that the locally agreed surface water information for the District is based on the Areas Susceptible to Surface Water Flooding (ASwSF) and Flood Map for Surface Water (FMfSW). The ASwSF should be shown within the IDB areas (Trent Valley and Upper Witham IDBs) due to being relatively flat and low-lying. The FMfSW should be shown for all other areas within the District.
2. This map gives an indication of the broad areas likely to be at risk of surface water flooding. It is not suitable for use at an individual property scale.

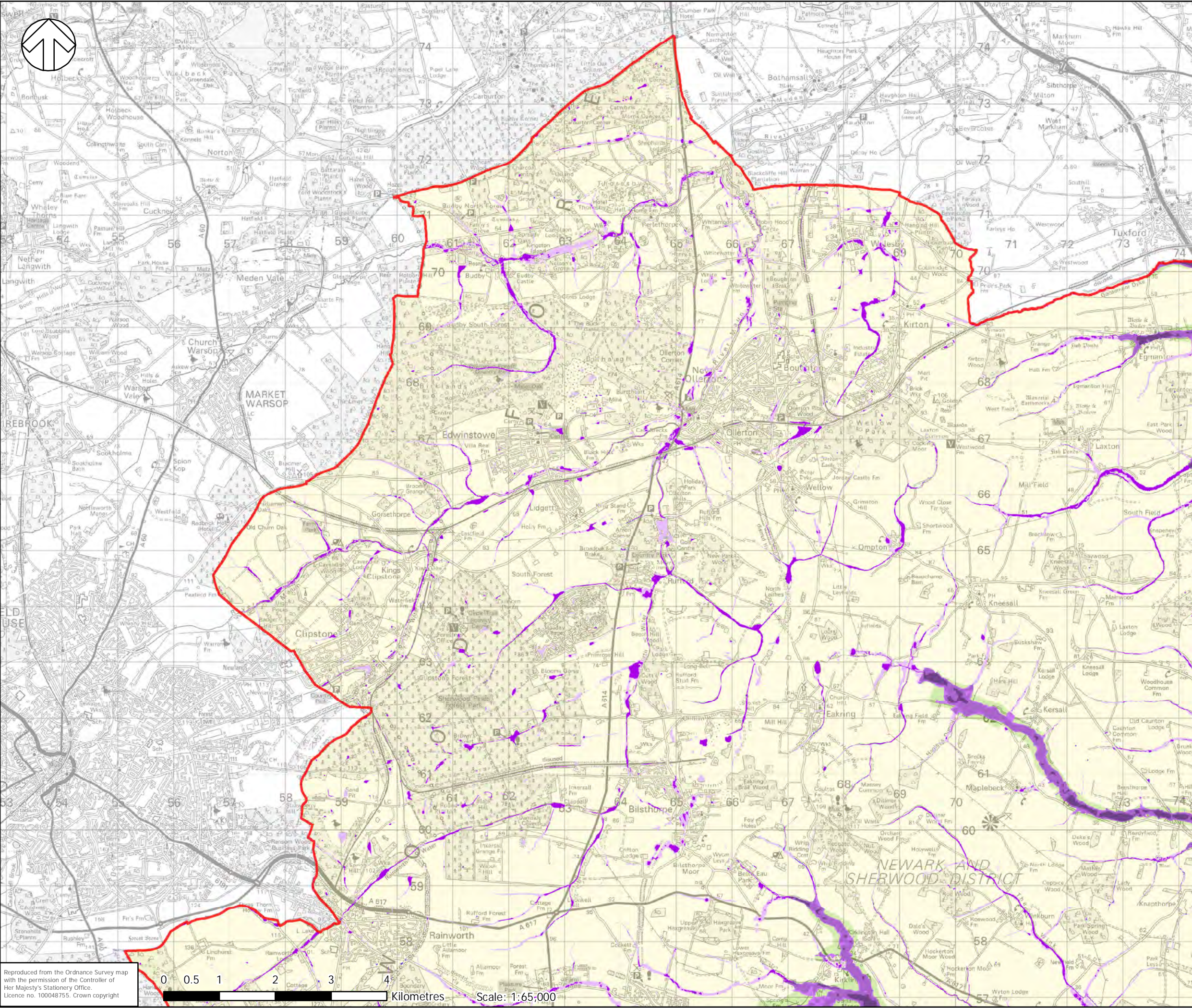


TITLE:
 NEWARK AND SHERWOOD
 DISTRICT COUNCIL
 LEVEL 2 SFRA
 PHASE 2

FIGURE No:
 LOCALLY AGREED SURFACE
 WATER INFORMATION
 (WITH 30 YEAR FLOOD RISK)
 1647 - E - 2.0.0

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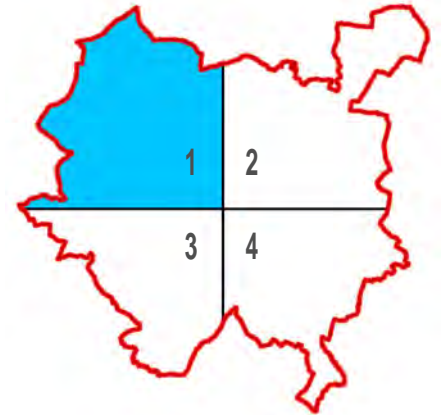


KEY

- District Boundary
- Area Susceptible to Surface Water Flooding**
 - More
 - Intermediate
 - Less
- Flood Map for Surface Water (30 Year)**
 - Deeper (>0.3m)
 - Shallower (0.1-0.3m)

NOTES

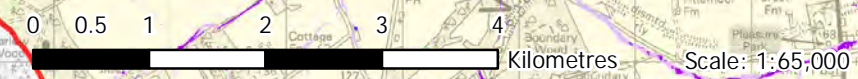
- The Nottinghamshire Preliminary FRA states that the locally agreed surface water information for the District is based on the Areas Susceptible to Surface Water Flooding (ASStSWF) and Flood Map for Surface Water (FMfSW). The ASStSWF should be shown within the IDB areas (Trent Valley and Upper Witham IDBs) due to being relatively flat and low-lying. The FMfSW should be shown for all other areas within the District.
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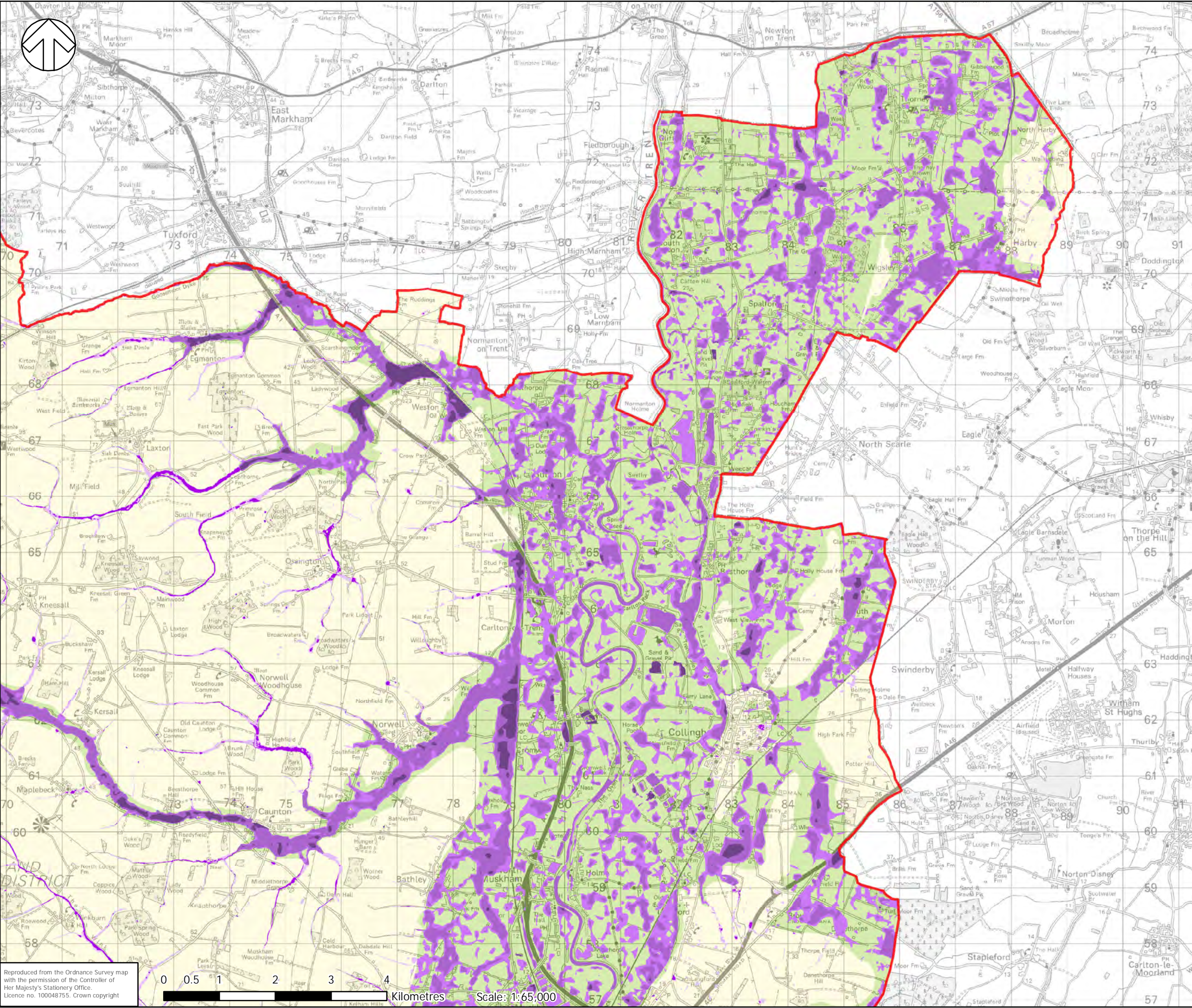


TITLE:
 NEWARK AND SHERWOOD DISTRICT COUNCIL
 LEVEL 2 SFRA
 PHASE 2

FIGURE No:
 LOCALLY AGREED SURFACE WATER INFORMATION
 (WITH 30 YEAR FLOOD RISK)
 1647 - E - 2.0.1

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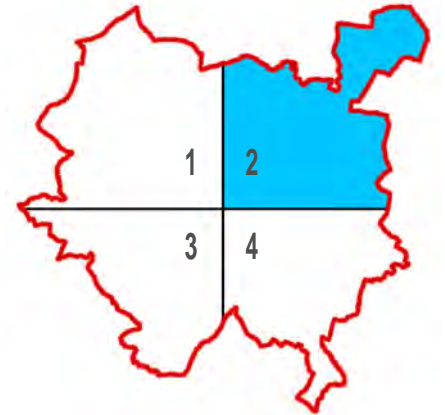


KEY

- District Boundary
- Area Susceptible to Surface Water Flooding**
- More
- Intermediate
- Less
- Flood Map for Surface Water (30 Year)**
- Deeper (>0.3m)
- Shallower (0.1-0.3m)

NOTES

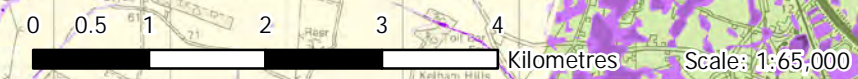
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2. This map gives an indication of the broad areas likely to be at risk of surface water flooding. It is not suitable for use at an individual property scale.

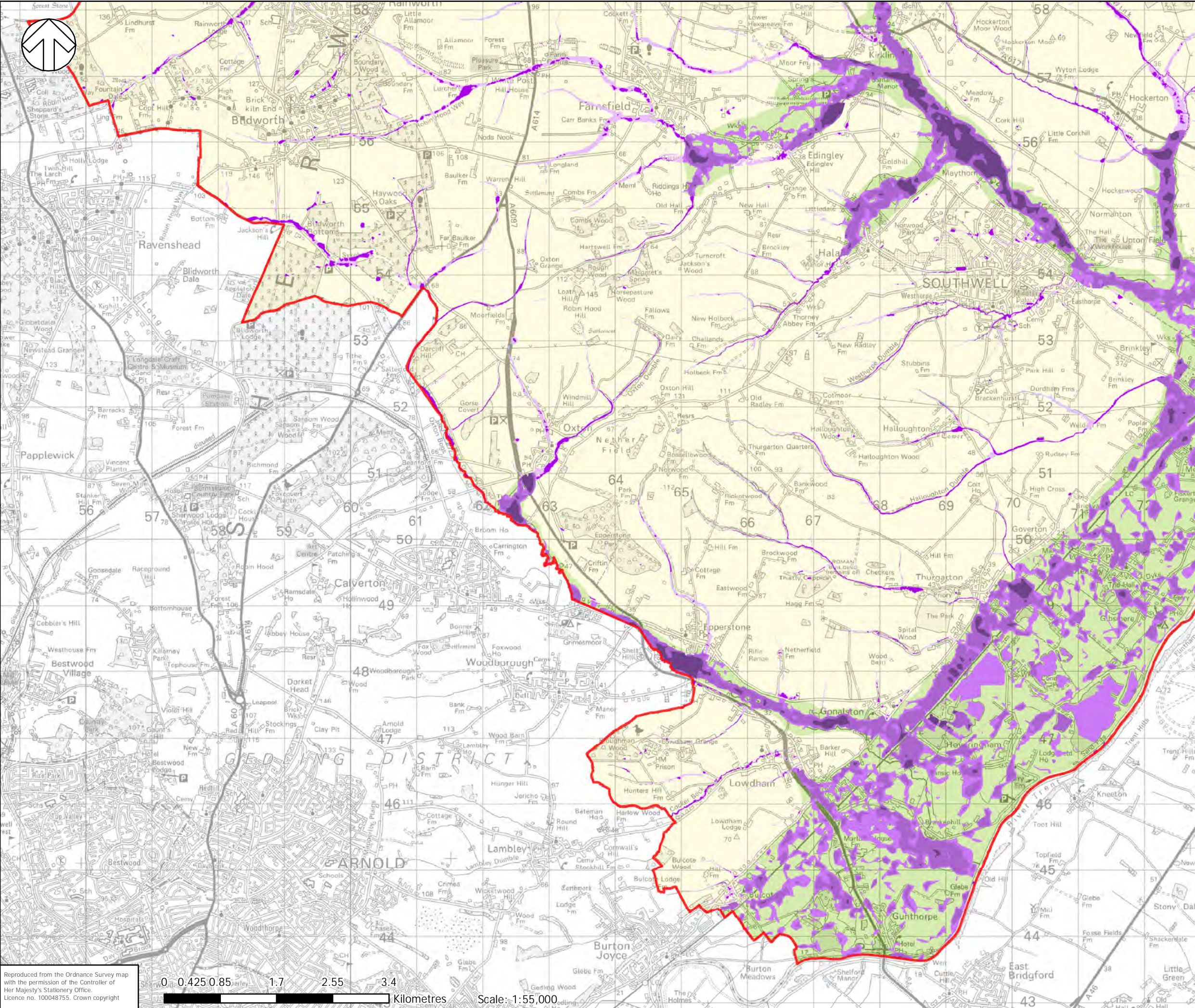


TITLE:
 NEWARK AND SHERWOOD
 DISTRICT COUNCIL
 LEVEL 2 SFRA
 PHASE 2

FIGURE No:
 LOCALLY AGREED SURFACE
 WATER INFORMATION
 (WITH 30 YEAR FLOOD RISK)
 1647 - E - 2.0.2

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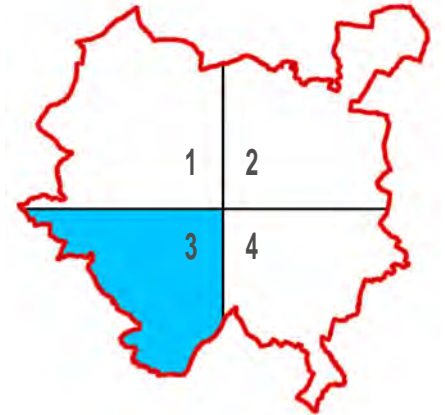
KEY

- District Boundary
- Area Susceptible to Surface Water Flooding**
 - More
 - Intermediate
 - Less
- Flood Map for Surface Water (30 Year)**
 - Deeper (>0.3m)
 - Shallower (0.1-0.3m)

NOTES

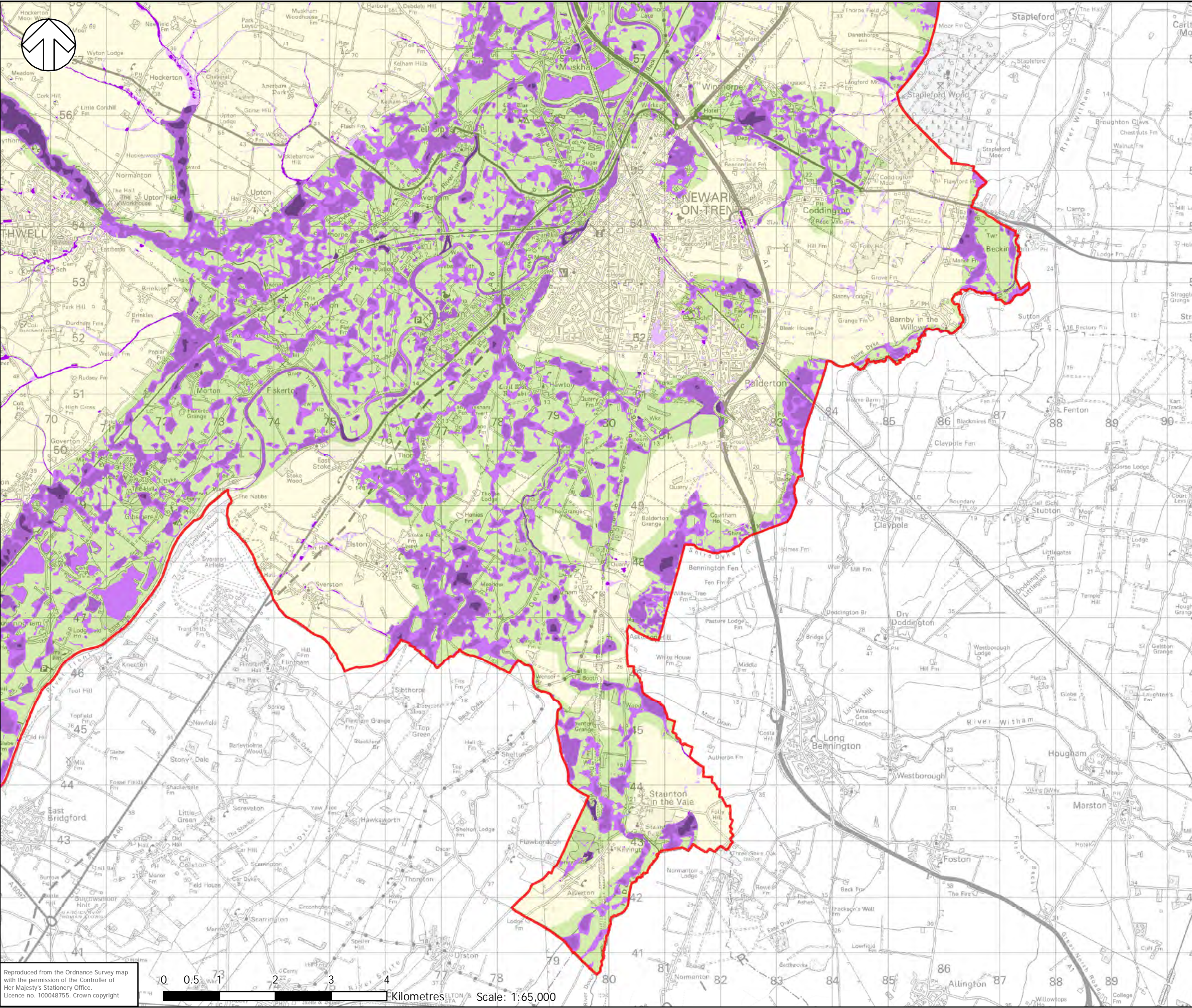
1. The Nottinghamshire Preliminary FRA states that the locally agreed surface water information for the District is based on the Areas Susceptible to Surface Water Flooding (AS_{SWF}) and Flood Map for Surface Water (FM_{SW}). The AS_{SWF} should be shown within the IDB areas (Trent Valley and Upper Witham IDBs) due to being relatively flat and low-lying. The FM_{SW} should be shown for all other areas within the District.

2. This map gives an indication of the broad areas likely to be at risk of surface water flooding. It is not suitable for use at an individual property scale.



TITLE:
 NEWARK AND SHERWOOD DISTRICT COUNCIL
 LEVEL 2 SFRA
 PHASE 2

FIGURE No:
 LOCALLY AGREED SURFACE WATER INFORMATION
 (WITH 30 YEAR FLOOD RISK)
 1647 - E - 2.0.3



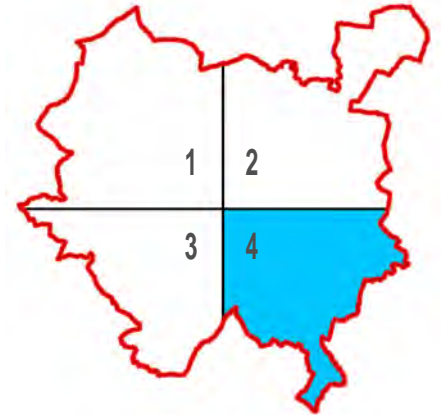
KEY

- District Boundary
- Area Susceptible to Surface Water Flooding**
- More
- Intermediate
- Less
- Flood Map for Surface Water (30 Year)**
- Deeper (>0.3m)
- Shallower (0.1-0.3m)

NOTES

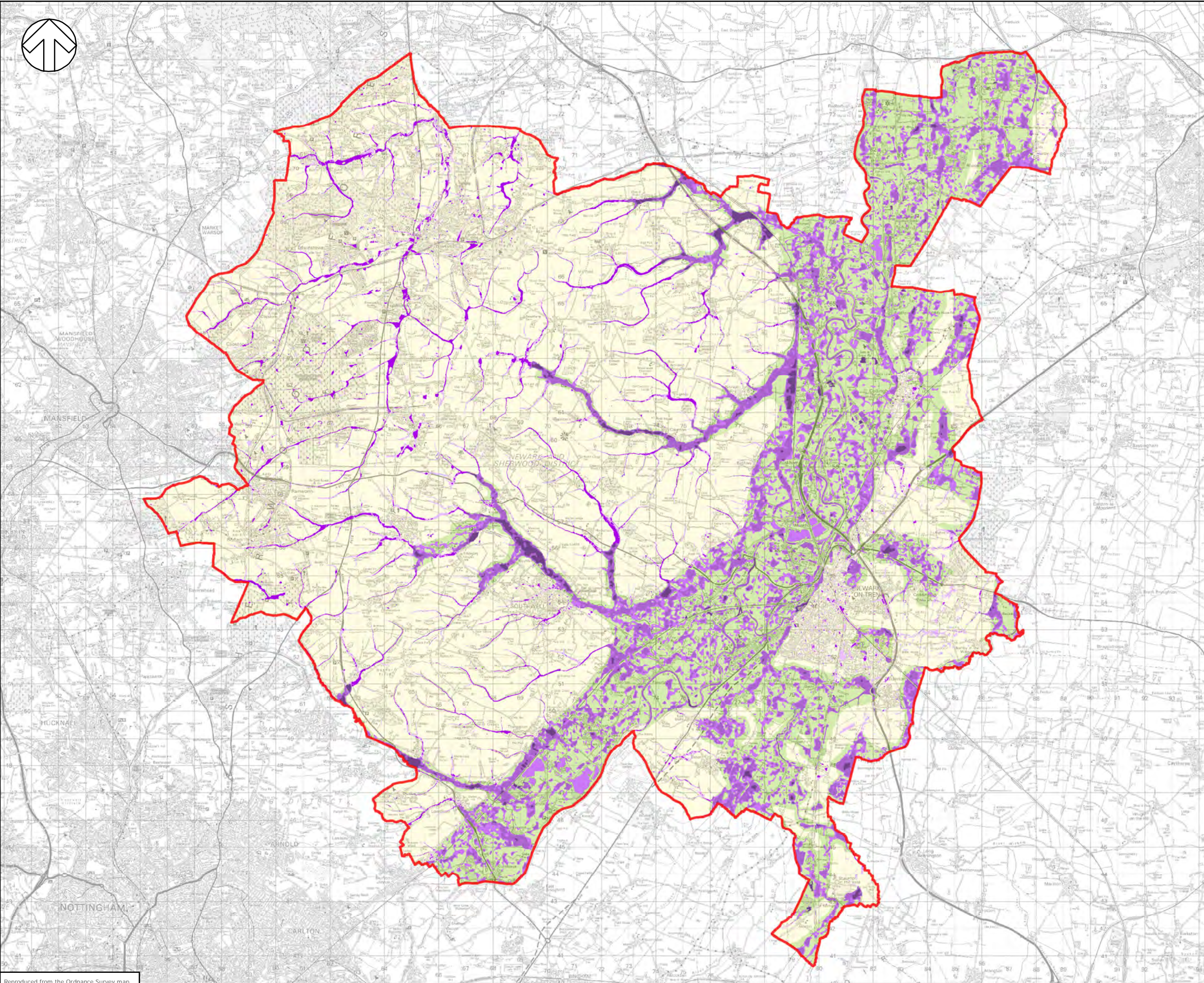
1. The Nottinghamshire Preliminary FRA states that the locally agreed surface water information for the District is based on the Areas Susceptible to Surface Water Flooding (ASStWF) and Flood Map for Surface Water (FMfSW). The ASStWF should be shown within the IDB areas (Trent Valley and Upper Witham IDBs) due to being relatively flat and low-lying. The FMfSW should be shown for all other areas within the District.

2. This map gives an indication of the broad areas likely to be at risk of surface water flooding. It is not suitable for use at an individual property scale.



TITLE:
 NEWARK AND SHERWOOD
 DISTRICT COUNCIL
 LEVEL 2 SFRA
 PHASE 2

FIGURE No:
 LOCALLY AGREED SURFACE
 WATER INFORMATION
 (WITH 30 YEAR FLOOD RISK)
 1647 - E - 2.0.4

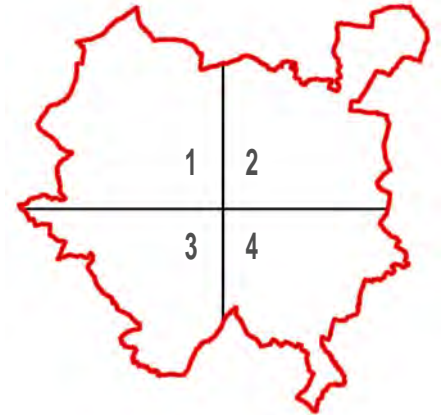


KEY

- District Boundary
- Area Susceptible to Surface Water Flooding**
 - More
 - Intermediate
 - Less
- Flood Map for Surface Water (200 Year)**
 - Deeper (>0.3m)
 - Shallower (0.1-0.3m)

NOTES

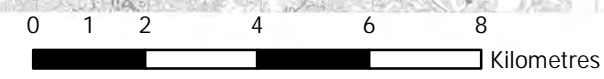
1. The Nottinghamshire Preliminary FRA states that the locally agreed surface water information for the District is based on the Areas Susceptible to Surface Water Flooding (ASStWF) and Flood Map for Surface Water (FMfSW). The ASStWF should be shown within the IDB areas (Trent Valley and Upper Witham IDBs) due to being relatively flat and low-lying. The FMfSW should be shown for all other areas within the District.
2. This map gives an indication of the broad areas likely to be at risk of surface water flooding. It is not suitable for use at an individual property scale.



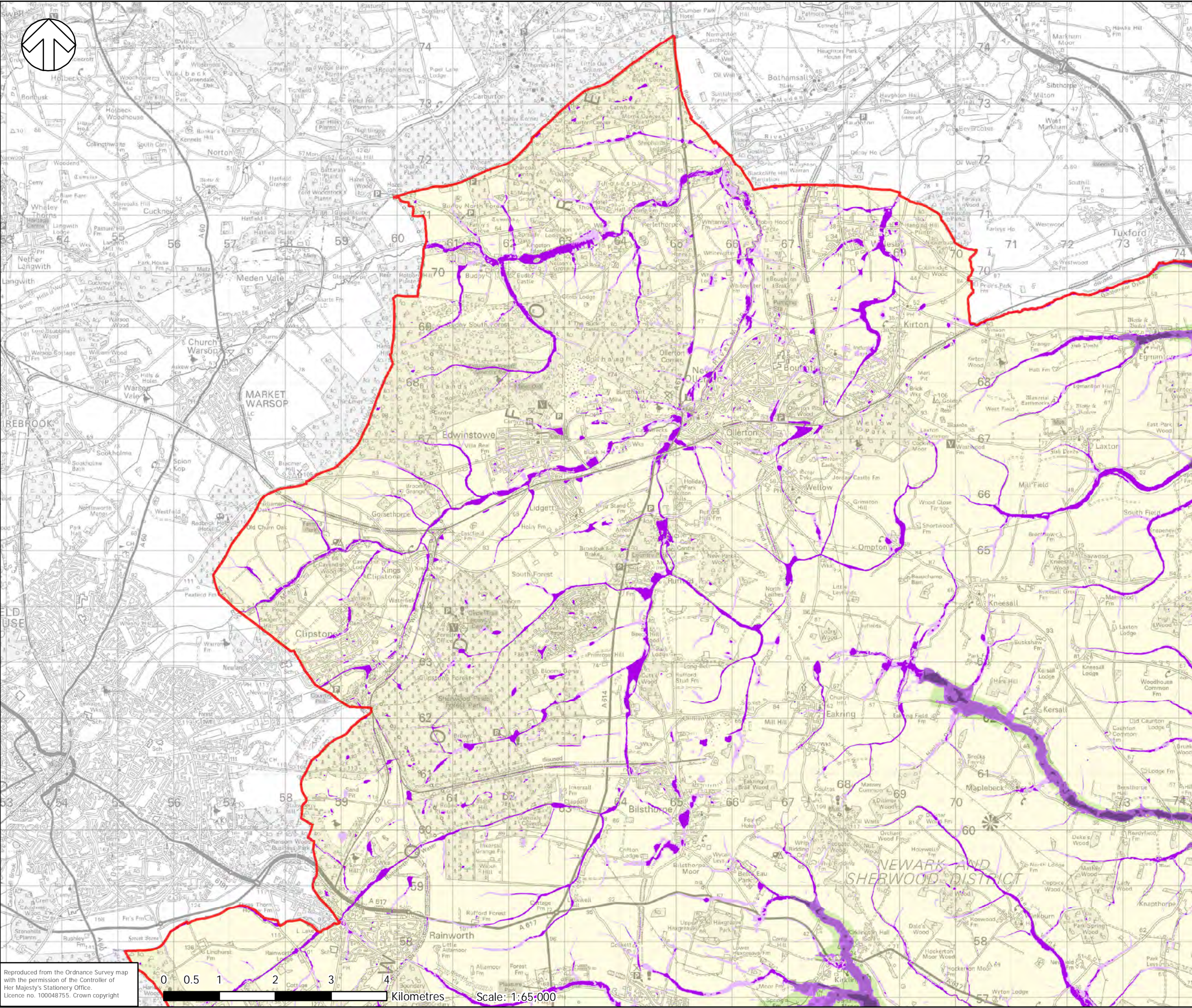
TITLE:
 NEWARK AND SHERWOOD
 DISTRICT COUNCIL
 LEVEL 2 SFRA
 PHASE 2

FIGURE No:
 LOCALLY AGREED SURFACE
 WATER INFORMATION
 (WITH 200 YEAR FLOOD RISK)
 1647 - E - 2.1.0

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Scale: 1:135,000

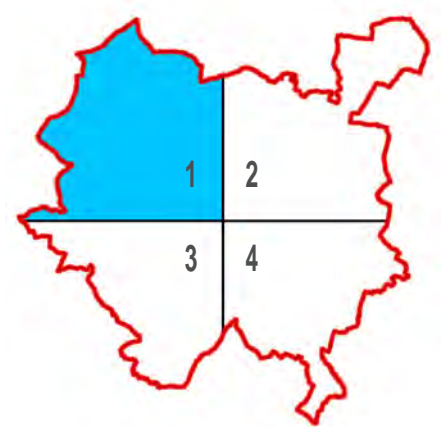


KEY

- District Boundary
- Area Susceptible to Surface Water Flooding**
 - More
 - Intermediate
 - Less
- Flood Map for Surface Water (200 Year)**
 - Deeper (>0.3m)
 - Shallower (0.1-0.3m)

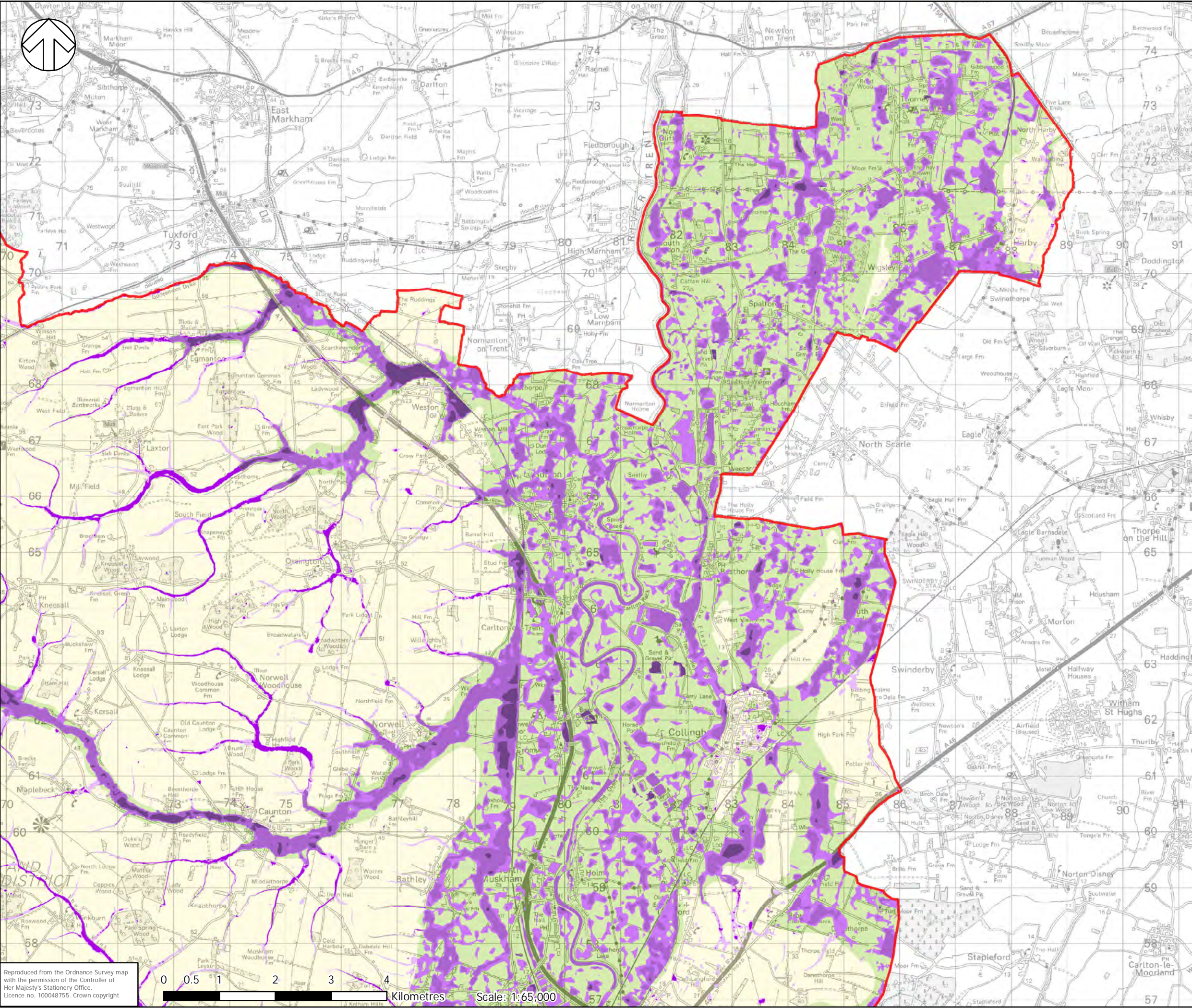
NOTES

- The Nottinghamshire Preliminary FRA states that the locally agreed surface water information for the District is based on the Areas Susceptible to Surface Water Flooding (AS_{SWF}) and Flood Map for Surface Water (FM_{SW}). The AS_{SWF} should be shown within the IDB areas (Trent Valley and Upper Witham IDBs) due to being relatively flat and low-lying. The FM_{SW} should be shown for all other areas within the District.
- This map gives an indication of the broad areas likely to be at risk of surface water flooding. It is not suitable for use at an individual property scale.



TITLE:
 NEWARK AND SHERWOOD DISTRICT COUNCIL
 LEVEL 2 SFRA
 PHASE 2

FIGURE No:
 LOCALLY AGREED SURFACE WATER INFORMATION
 (WITH 200 YEAR FLOOD RISK)
 1647 - E - 2.1.1

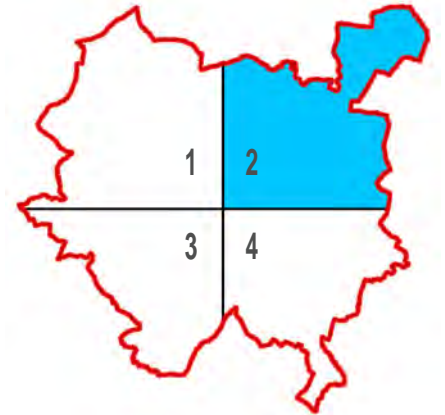


KEY

- District Boundary
- Area Susceptible to Surface Water Flooding**
- More
- Intermediate
- Less
- Flood Map for Surface Water (200 Year)**
- Deeper (>0.3m)
- Shallower (0.1-0.3m)

NOTES

- The Nottinghamshire Preliminary FRA states that the locally agreed surface water information for the District is based on the Areas Susceptible to Surface Water Flooding (AS_{SWF}) and Flood Map for Surface Water (FM_{SW}). The AS_{SWF} should be shown within the IDB areas (Trent Valley and Upper Witham IDBs) due to being relatively flat and low-lying. The FM_{SW} should be shown for all other areas within the District.
- This map gives an indication of the broad areas likely to be at risk of surface water flooding. It is not suitable for use at an individual property scale.

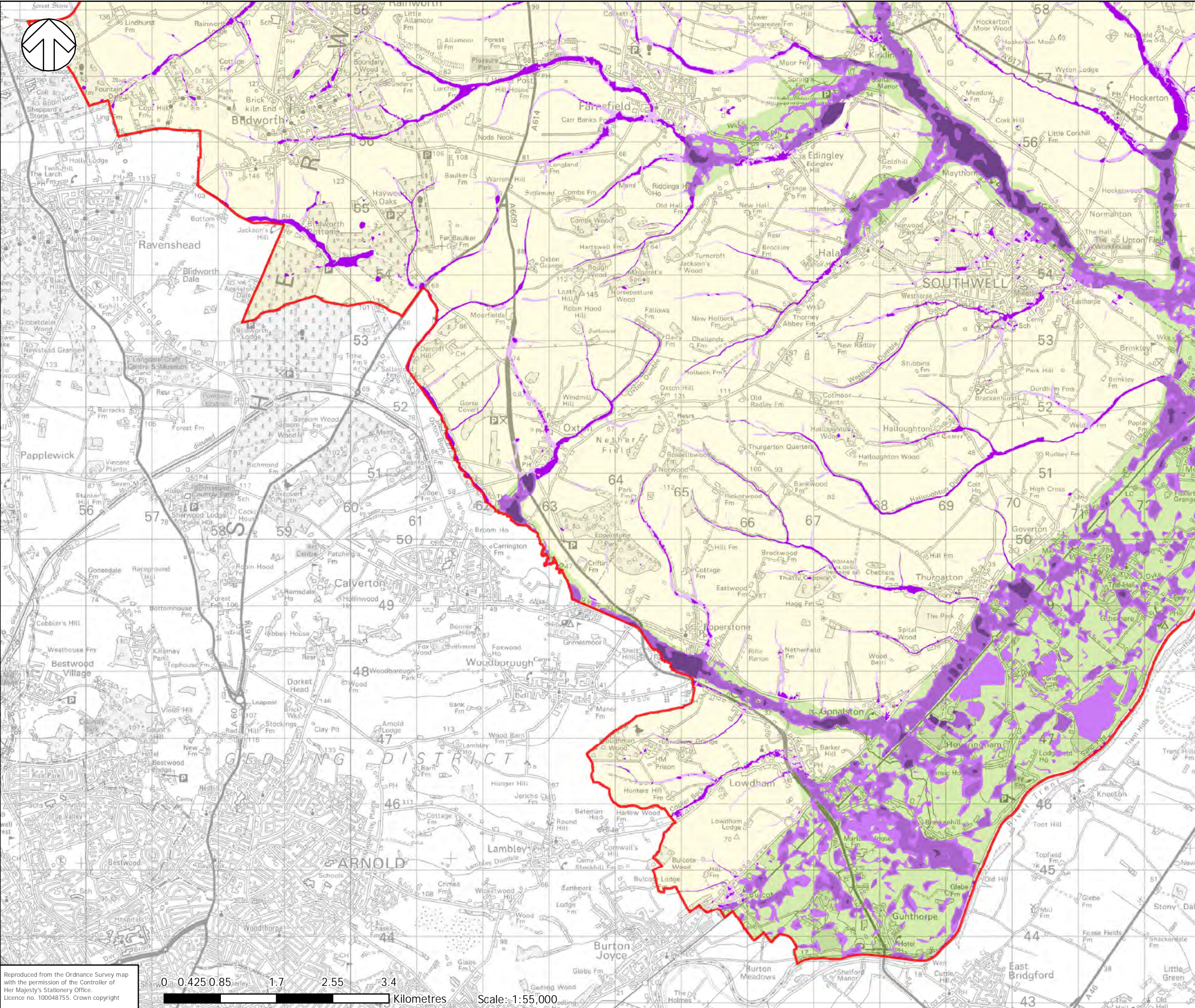


TITLE:
 NEWARK AND SHERWOOD DISTRICT COUNCIL
 LEVEL 2 SFRA
 PHASE 2

FIGURE No:
 LOCALLY AGREED SURFACE WATER INFORMATION
 (WITH 200 YEAR FLOOD RISK)
 1647 - E - 2.1.2

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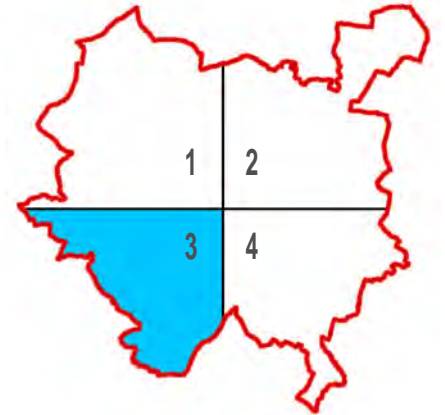
KEY

- District Boundary
- Area Susceptible to Surface Water Flooding**
- More
- Intermediate
- Less
- Flood Map for Surface Water (200 Year)**
- Deeper (>0.3m)
- Shallower (0.1-0.3m)

NOTES

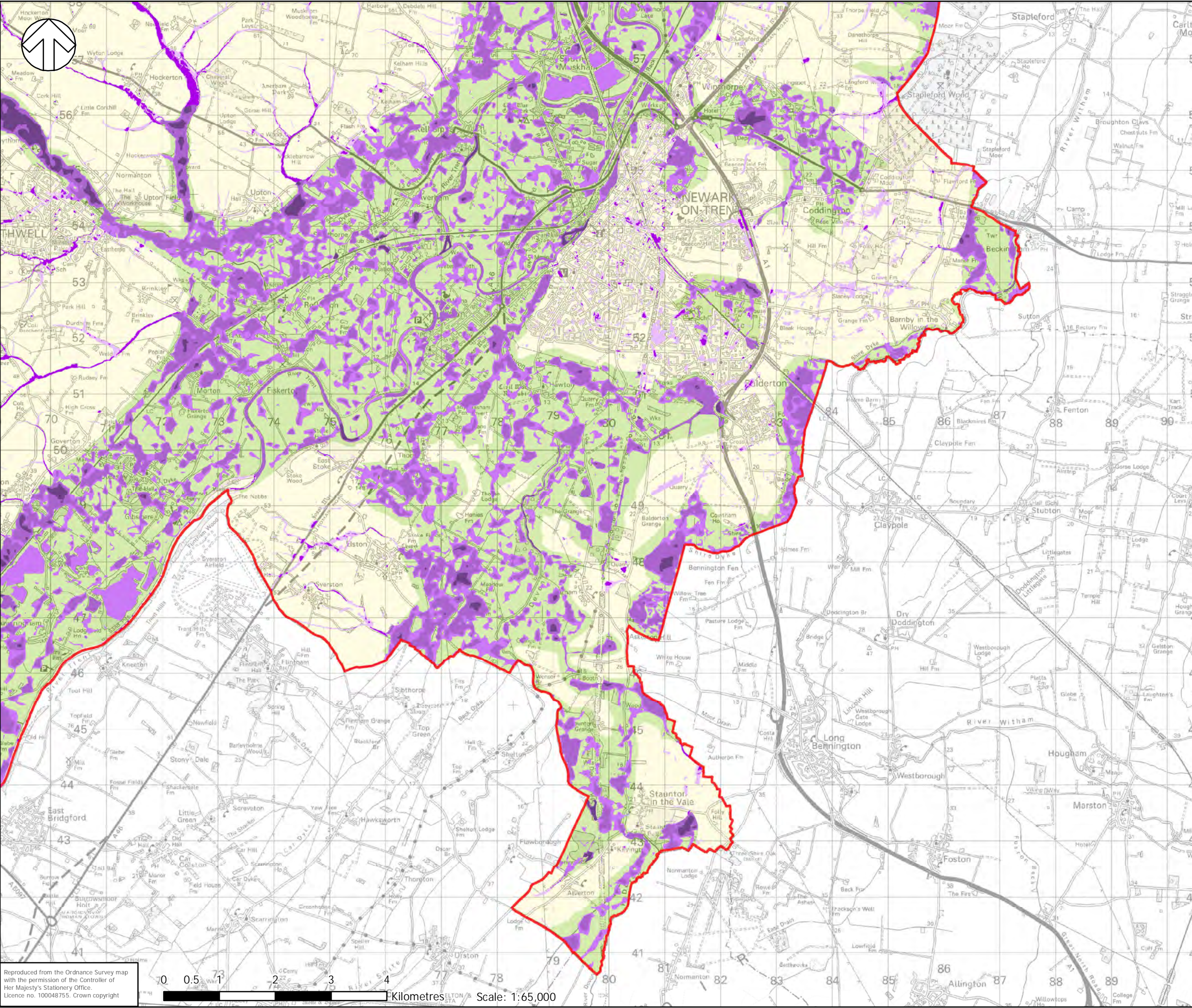
1. The Nottinghamshire Preliminary FRA states that the locally agreed surface water information for the District is based on the Areas Susceptible to Surface Water Flooding (AS_{SWF}) and Flood Map for Surface Water (FM_{SW}). The AS_{SWF} should be shown within the IDB areas (Trent Valley and Upper Witham IDBs) due to being relatively flat and low-lying. The FM_{SW} should be shown for all other areas within the District.

2. This map gives an indication of the broad areas likely to be at risk of surface water flooding. It is not suitable for use at an individual property scale.



TITLE:
 NEWARK AND SHERWOOD DISTRICT COUNCIL
 LEVEL 2 SFRA
 PHASE 2

FIGURE No:
 LOCALLY AGREED SURFACE WATER INFORMATION
 (WITH 200 YEAR FLOOD RISK)
 1647 - E - 2.1.3

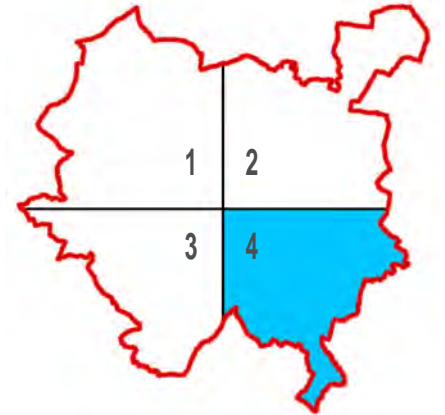


KEY

- District Boundary
- Area Susceptible to Surface Water Flooding**
- More
- Intermediate
- Less
- Flood Map for Surface Water (200 Year)**
- Deeper (>0.3m)
- Shallower (0.1-0.3m)

NOTES

- The Nottinghamshire Preliminary FRA states that the locally agreed surface water information for the District is based on the Areas Susceptible to Surface Water Flooding (AS_tSWF) and Flood Map for Surface Water (FM_fSW). The AS_tSWF should be shown within the IDB areas (Trent Valley and Upper Witham IDBs) due to being relatively flat and low-lying. The FM_fSW should be shown for all other areas within the District.
- This map gives an indication of the broad areas likely to be at risk of surface water flooding. It is not suitable for use at an individual property scale.



TITLE:
 NEWARK AND SHERWOOD DISTRICT COUNCIL
 LEVEL 2 SFRA
 PHASE 2

FIGURE No:
 LOCALLY AGREED SURFACE WATER INFORMATION
 (WITH 200 YEAR FLOOD RISK)
 1647 - E - 2.1.4