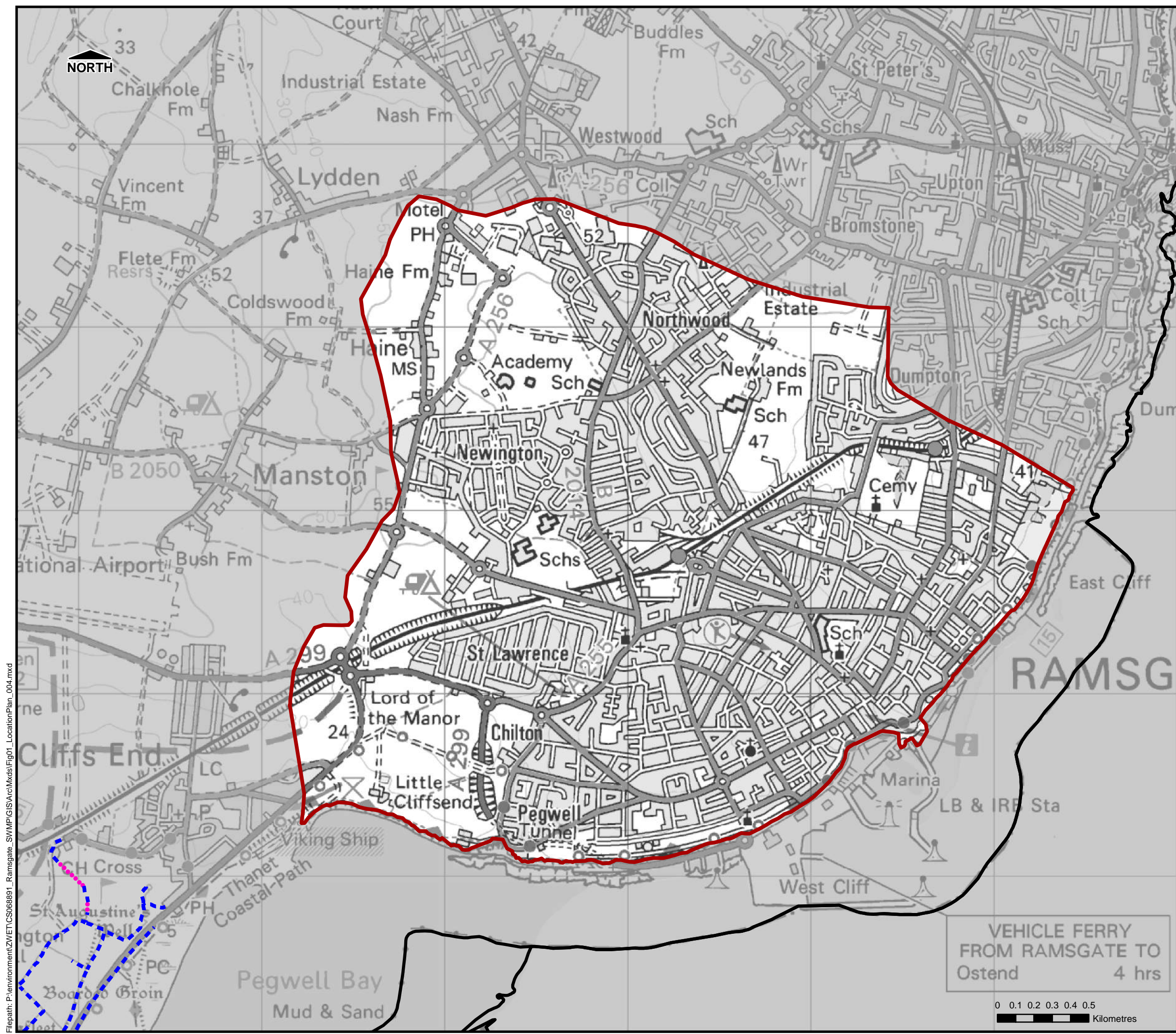





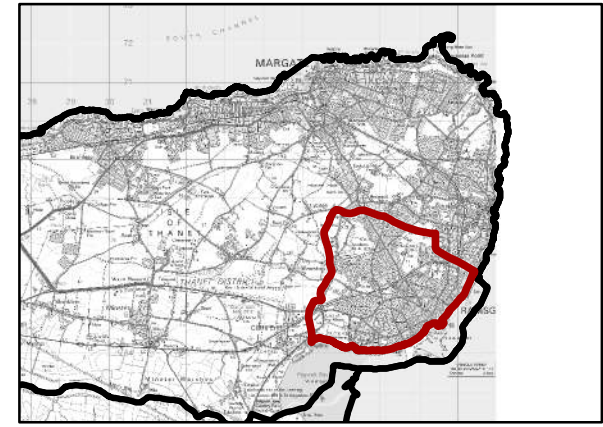


Filepath: P:\environment\ZVET\CS068891_Ramsgate_SWMP\GIS\ArcMxds\Fig01_LocationPlan_004.mxd



THIS DRAWING MAY BE USED ONLY FOR THE PURPOSE INTENDED

- Legend**
-  Study Area
 -  TDC Administrative Boundary
 -  Main River
 -  Ordinary Watercourse
 -  Culverted Watercourse



Notes

Ramsgate



Surface Water Management Plan

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Scale at A3	Date	Drawn by	Approved by
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Ramsgate Location Plan

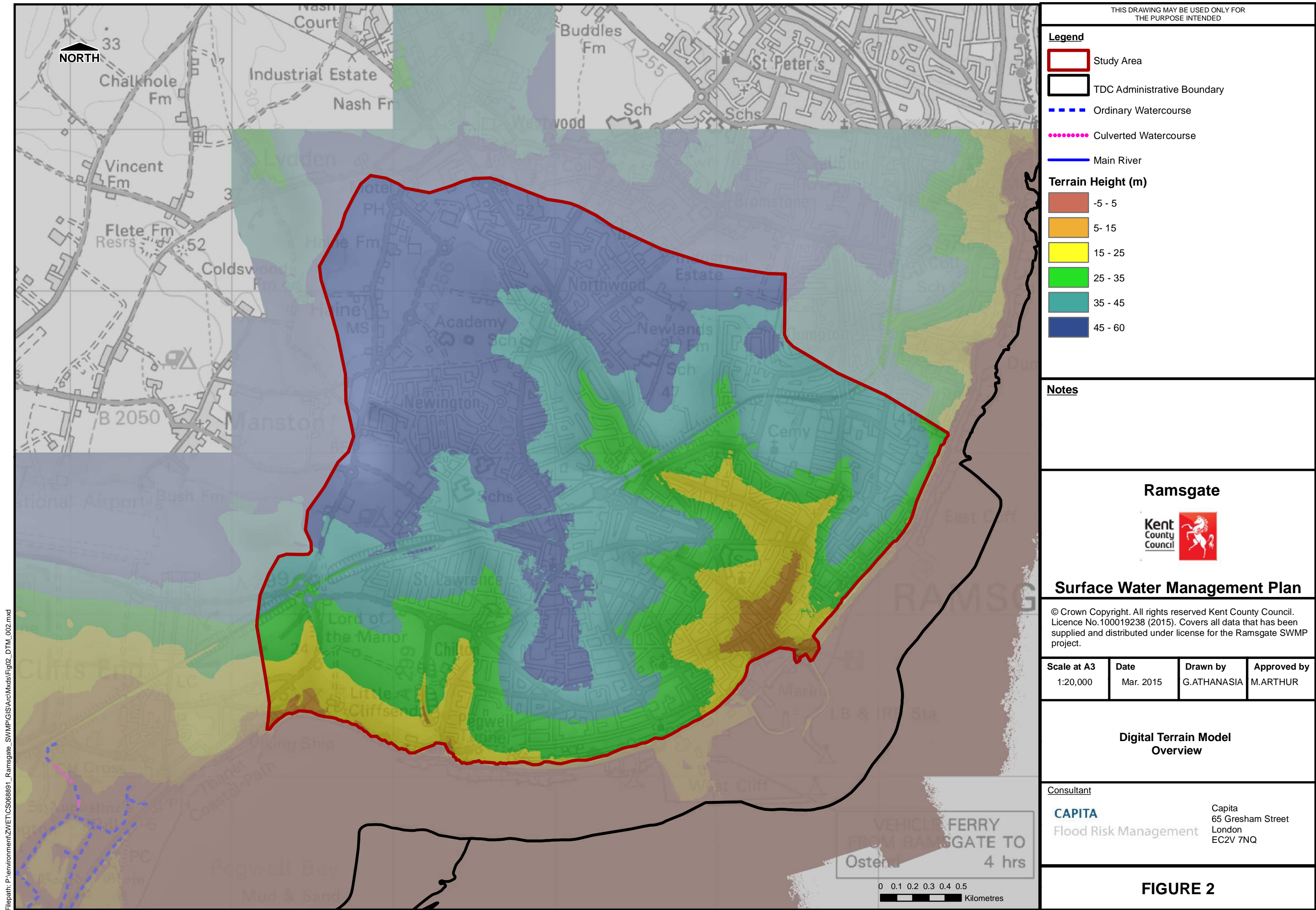
Consultant

CAPITA
Flood Risk Management

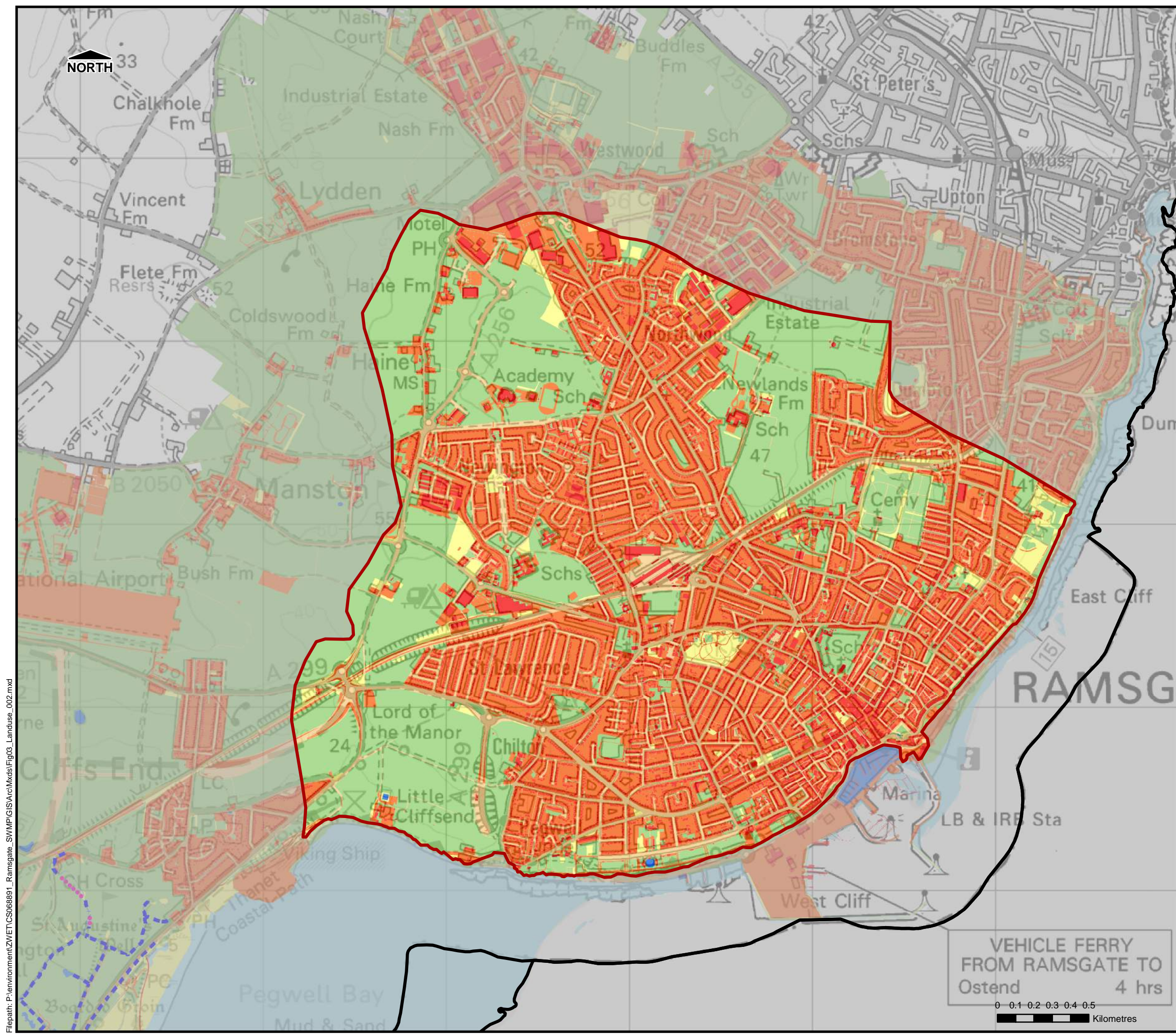
Capita
65 Gresham Street
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EC2V 7NQ

FIGURE 1

Filepath: P:\environment\ZVET\CS068891_Ramsgate_SWMP\GIS\ArcMxds\Fig02_DTM_002.mxd



Filepath: P:\environment\ZVET\CS068891_Ramsgate_SWMP\GIS\ArcMxds\Fig03_Landuse_002.mxd



THIS DRAWING MAY BE USED ONLY FOR THE PURPOSE INTENDED

- Legend**
- Study Area
 - TDC Administrative Boundary
 - Main River
 - Ordinary Watercourse
 - Culverted Watercourse
 - Building/ Structure
 - General Surface (Manmade)
 - General Surface (Natural)
 - Inland Water
 - Paths, Roads, Tracks or Rail
 - Unclassified, Land
 - Tidal Water

Notes

Ramsgate



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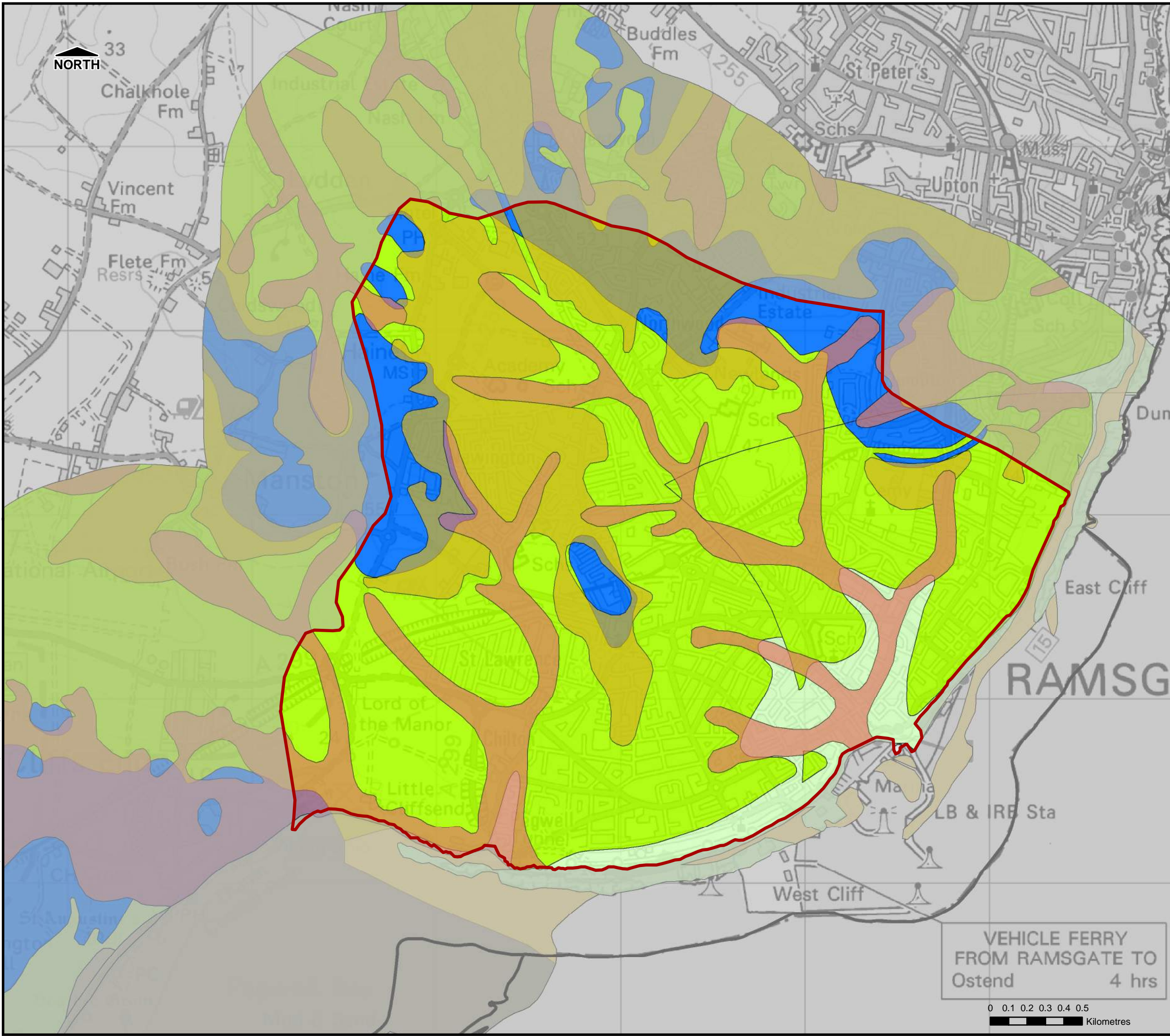
Scale at A3	Date	Drawn by	Approved by
1:20,000	Mar. 2015	G.ATHANASIA	M.ARTHUR

Landuse Map Overview

Consultant	
CAPITA Flood Risk Management	Capita 65 Gresham Street London EC2V 7NQ

FIGURE 3

Filepath: P:\environment\ZVET\CS068891_Ramsgate_SWMP\GIS\ArcMxds\Fig04_Geology_002.mxd



THIS DRAWING MAY BE USED ONLY FOR
THE PURPOSE INTENDED

Legend

- Study Area
- TDC Administrative Boundary

Bedrock

- Lewes Nodular, Seaford & Newhaven Chalk Formation (SNCK-CHLK)
- Margate Chalk Member (MACK-CHLK)
- Seaford Chalk Formation (SECK-CHLK)
- Thanet Sand Formation (TAB-SSCL)

Superficial Deposits

- Beach and Tidal Flat Deposits (BTFU-SAGR)
- Beach and Tidal Flat Deposits (BTFU-SSCL)
- Head (HEAD1-CLSI)
- Head (HEAD2-CLSI)
- Storm Beach Deposits (STOB-SAGR)
- Tidal Flat Deposits (TFD-CLSI)

Notes

Ramsgate



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**Geological Map
Overview**

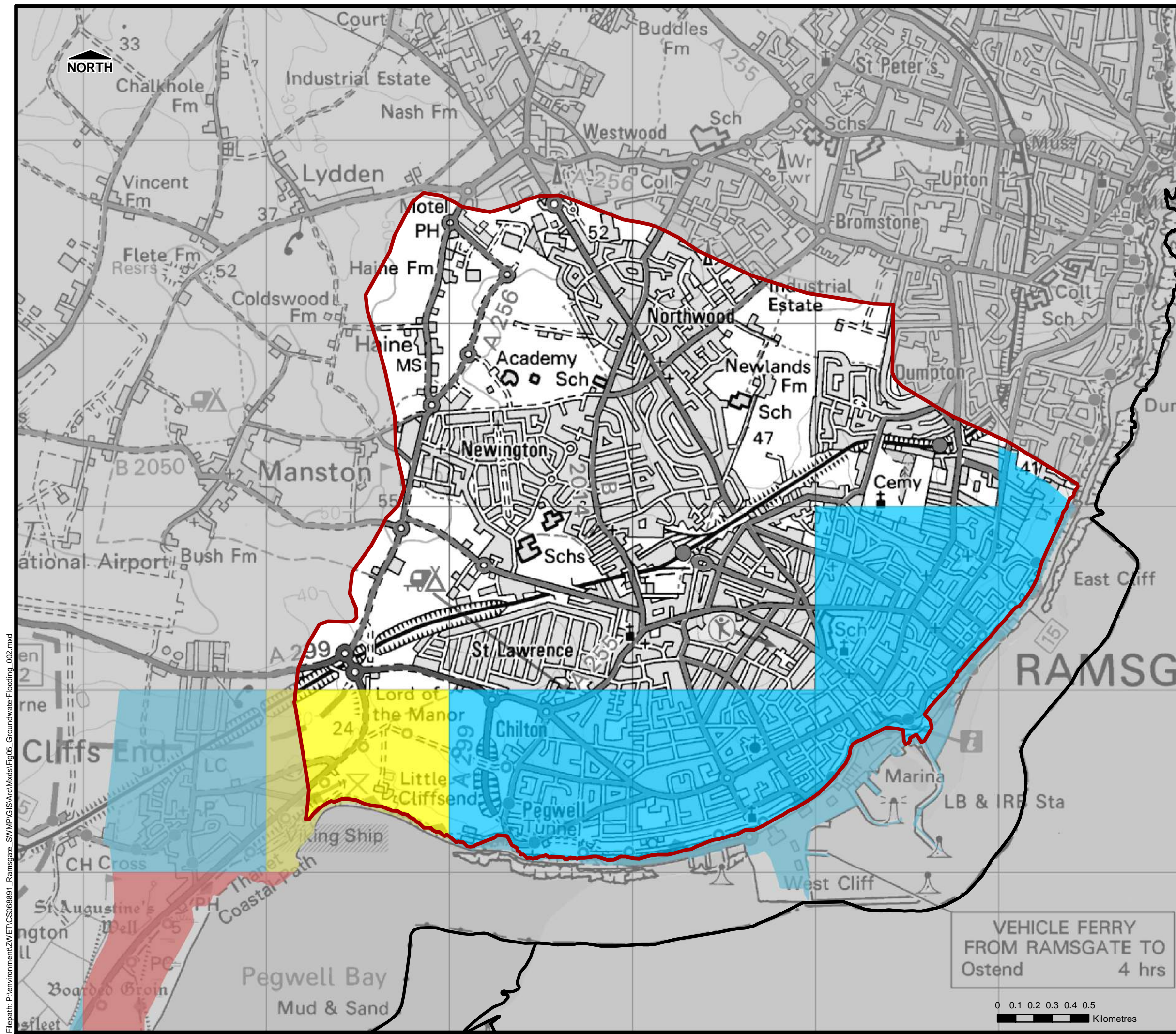
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FIGURE 3

Filepath: P:\environment\ZVET\CS068891_Ramsgate_SWMP\GIS\ArcMxds\Fig05_GroundwaterFlooding_002.mxd



THIS DRAWING MAY BE USED ONLY FOR THE PURPOSE INTENDED

Legend

Study Area

TDC Administrative Boundary

Susceptibility to Groundwater Flooding

Very High; $\geq 75\%$

High; $\geq 50\% < 75\%$

Moderate; $\geq 25\% < 50\%$

Low; $< 25\%$

Notes

This susceptibility data is suitable for use for regional or national planning purposes where the groundwater flooding information will be used along with a range of other relevant information to inform land-use planning decisions. The susceptibility data should not be used on its own to make planning decisions at any scale, and, in particular, should not be used to inform planning decisions at the site scale. The susceptibility data cannot be used on its own to indicate risk of groundwater flooding.

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Environment Agency
Areas Susceptible to Groundwater Flooding
Ramsgate Overview

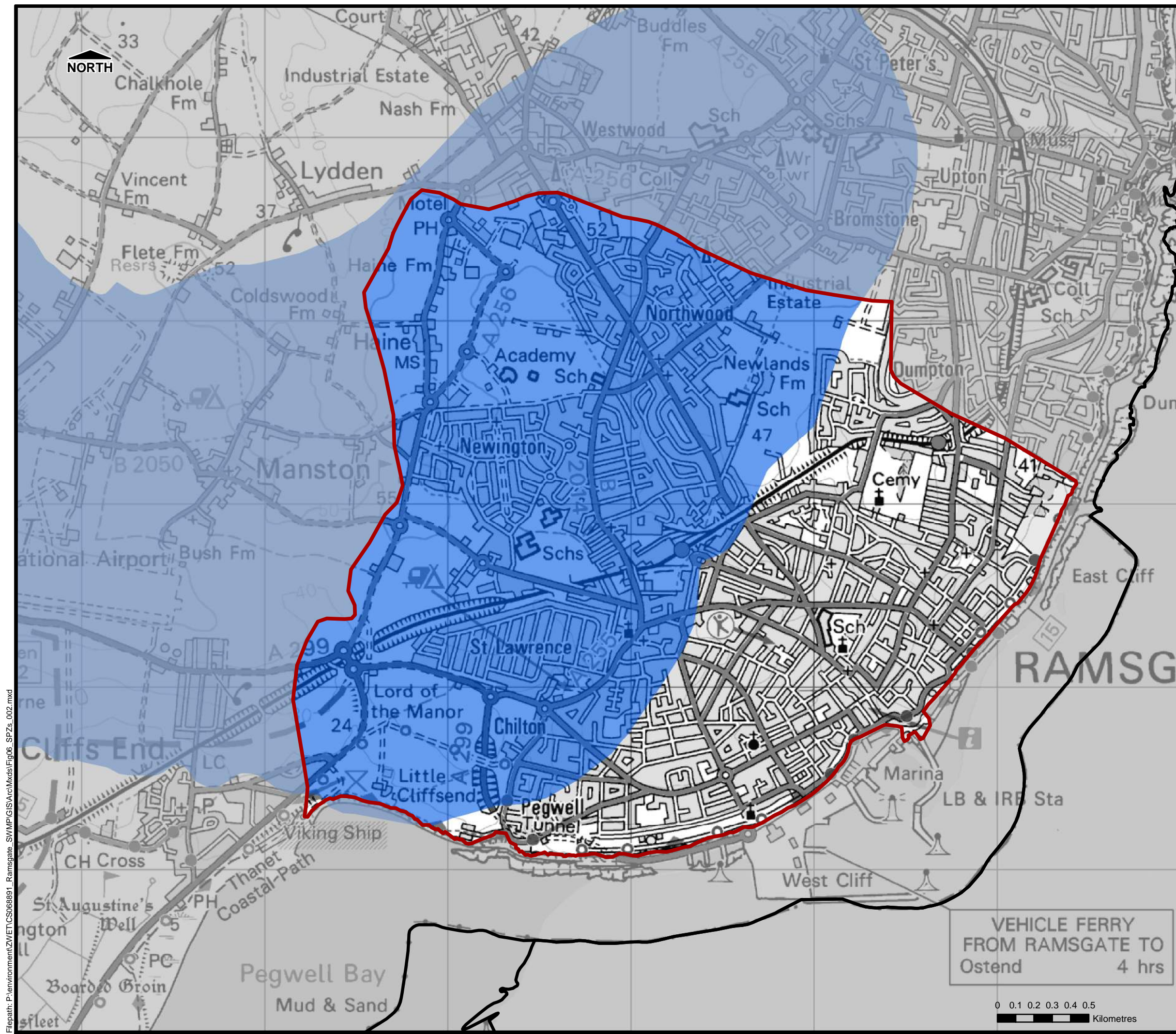
Consultant

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FIGURE 5

Filepath: P:\environment\ZVET\CS068891_Ramsgate_SWMP\GIS\ArcMxd\Fig06_SPZs_002.mxd



THIS DRAWING MAY BE USED ONLY FOR THE PURPOSE INTENDED

Legend

-  Study Area
-  TDC Administrative Boundary
- Groundwater Source Protection Zones**
 -  Inner Zone (Zone 1)
 -  Outer Zone (Zone 2)
 -  Total Catchment (Zone 3)

Notes

Ramsgate



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**Environment Agency
Source Protection Zones
Ramsgate Overview**

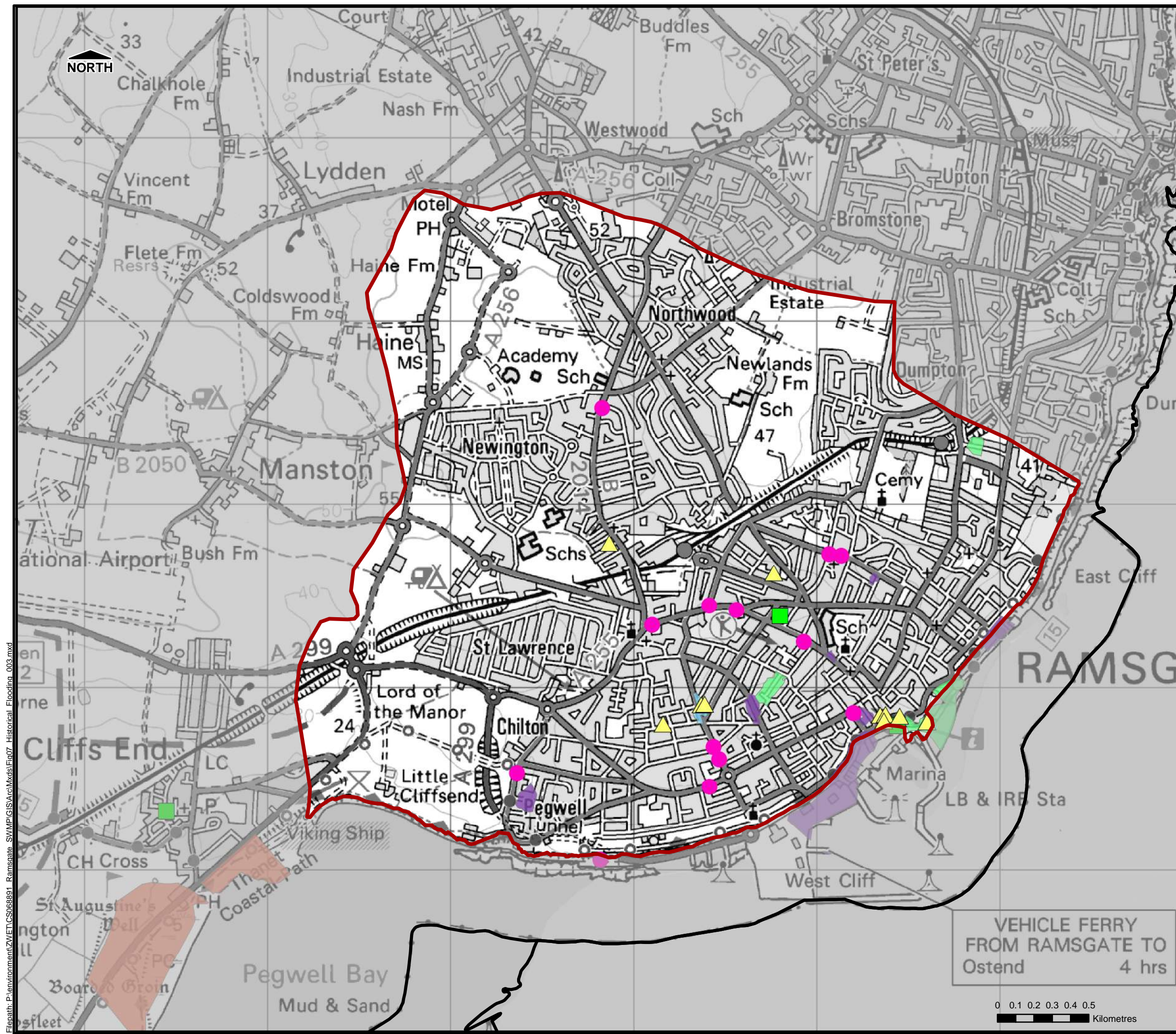
Consultant

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




FIGURE 6

Filepath: P:\environment\ZVET\CS068891_Ramsgate_SWMP\GIS\ArcMxd\Fig07_Historical_Flooding_003.mxd



THIS DRAWING MAY BE USED ONLY FOR THE PURPOSE INTENDED

Legend

-  Study Area
-  TDC Administrative Boundary
-  Environment Agency Historic Flood Map
-  Sewer Flood Incidents (Southern Water)
-  Flood Incidents (Kent Highways)
-  Flood Incidents (Thanet District Council)
- Number of Sewer Flooding Records (Southern Water)
 -  1
 -  2
 -  3
 -  5

Notes

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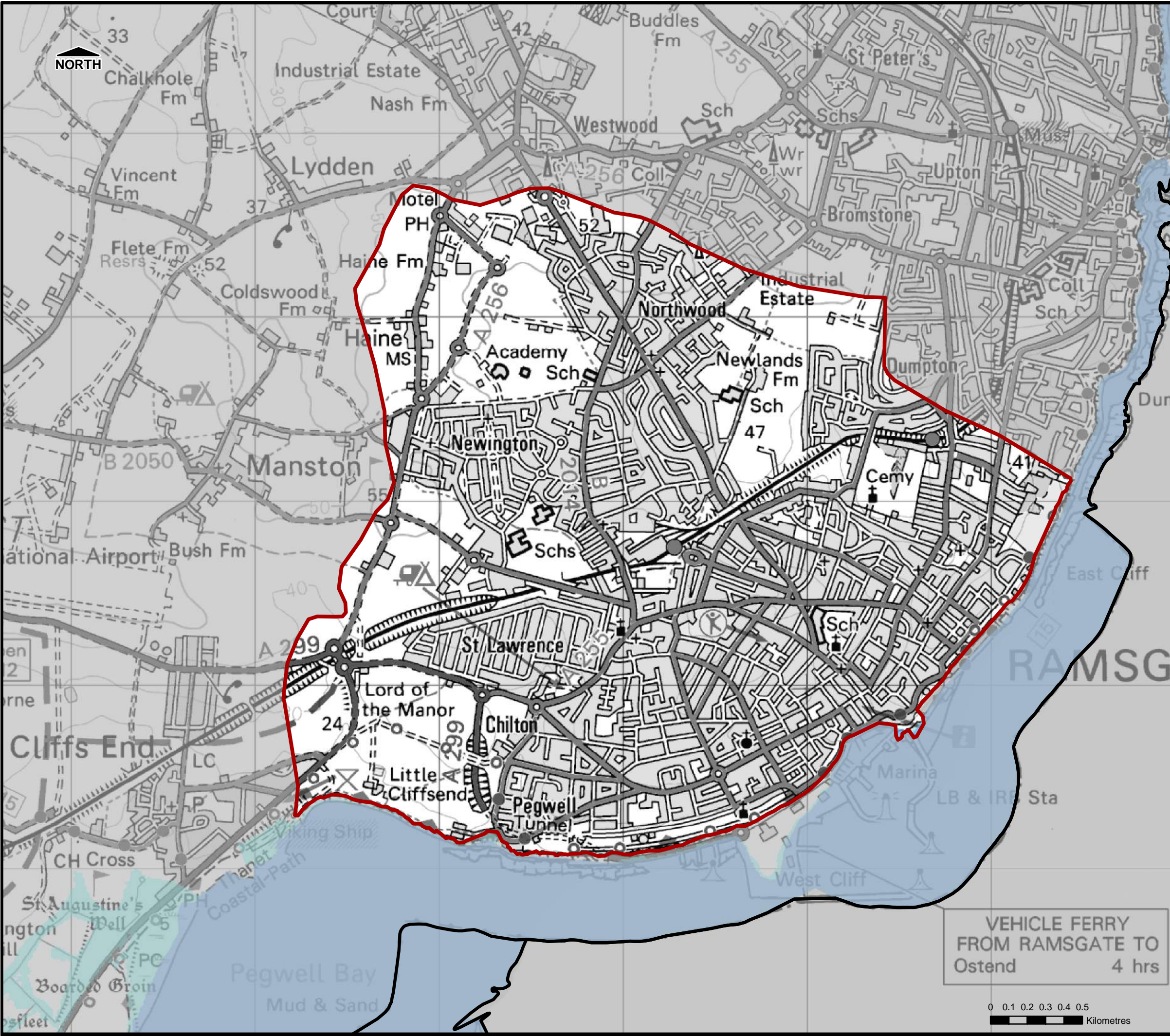
Historical Flooding Overview

Consultant

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FIGURE 7



THIS DRAWING MAY BE USED ONLY FOR THE PURPOSE INTENDED

Legend

- Study Area
- TDC Administrative Boundary
- Main River
- Ordinary Watercourse
- Culverted Watercourse
- Environment Agency Flood Zone 2
- Environment Agency Flood Zone 3
- Areas Benefiting from Defences
- Environment Agency Historic Flood Map
- Defences

Notes

- Environment Agency Flood Zone 3: Land assessed, ignoring the presence of flood defences, as having a 1% or greater annual probability of fluvial flooding 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 fluvial flooding or between a 0.5% and 0.1% annual probability of tidal flooding in any year.
- 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 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 & walls

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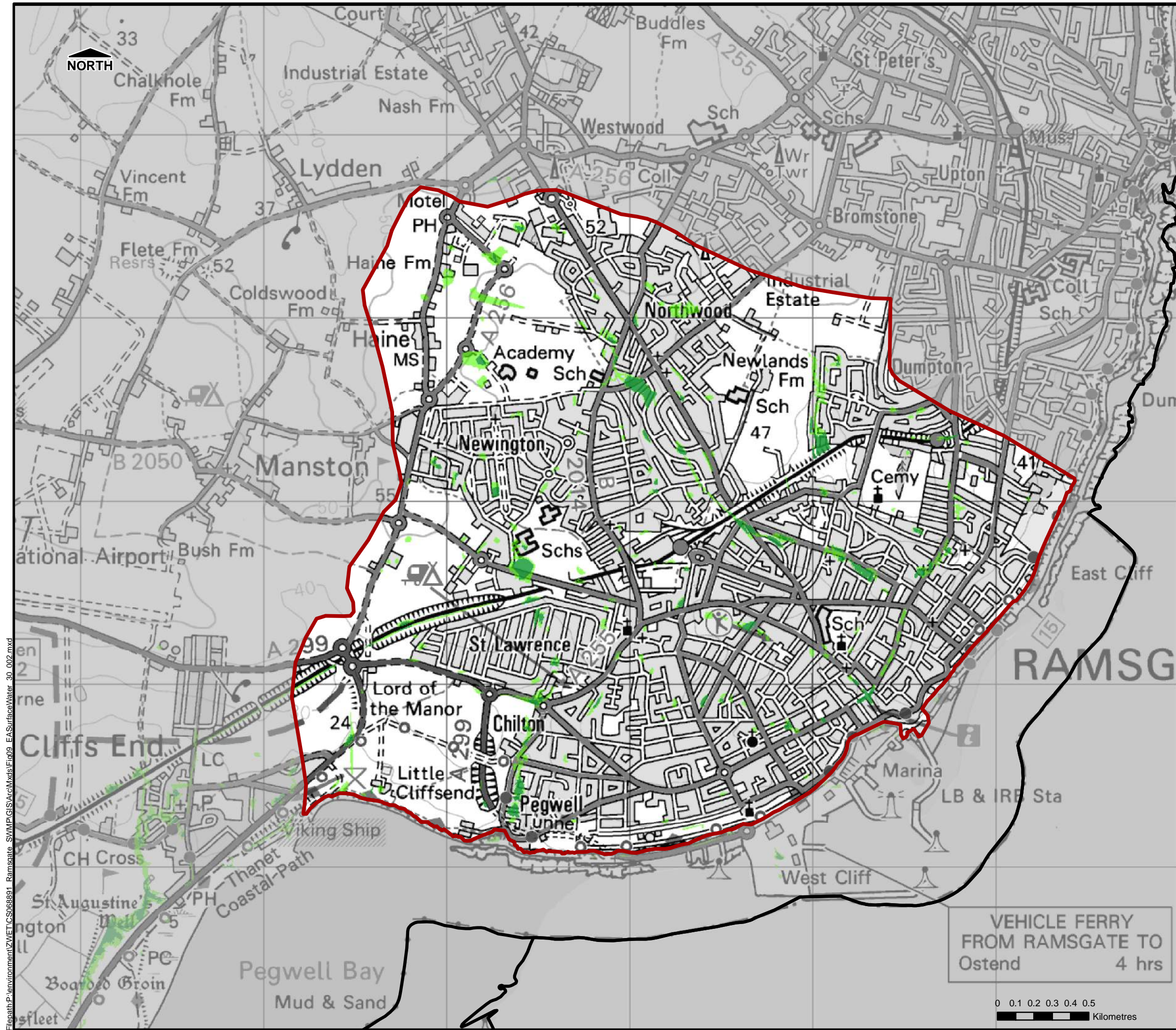
**Environment Agency
Flood Zones
Overview**

Consultant

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FIGURE 8



THIS DRAWING MAY BE USED ONLY FOR THE PURPOSE INTENDED

Legend

-  Study Area
-  TDC Administrative Boundary
-  Main River
-  Ordinary Watercourse
-  Culverted Watercourse
-  Surface Water 1 in 30 year (Shallow)
-  Surface Water 1 in 30 year (Deep)

Notes

Ramsgate



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Scale at A3	Date	Drawn by	Approved by
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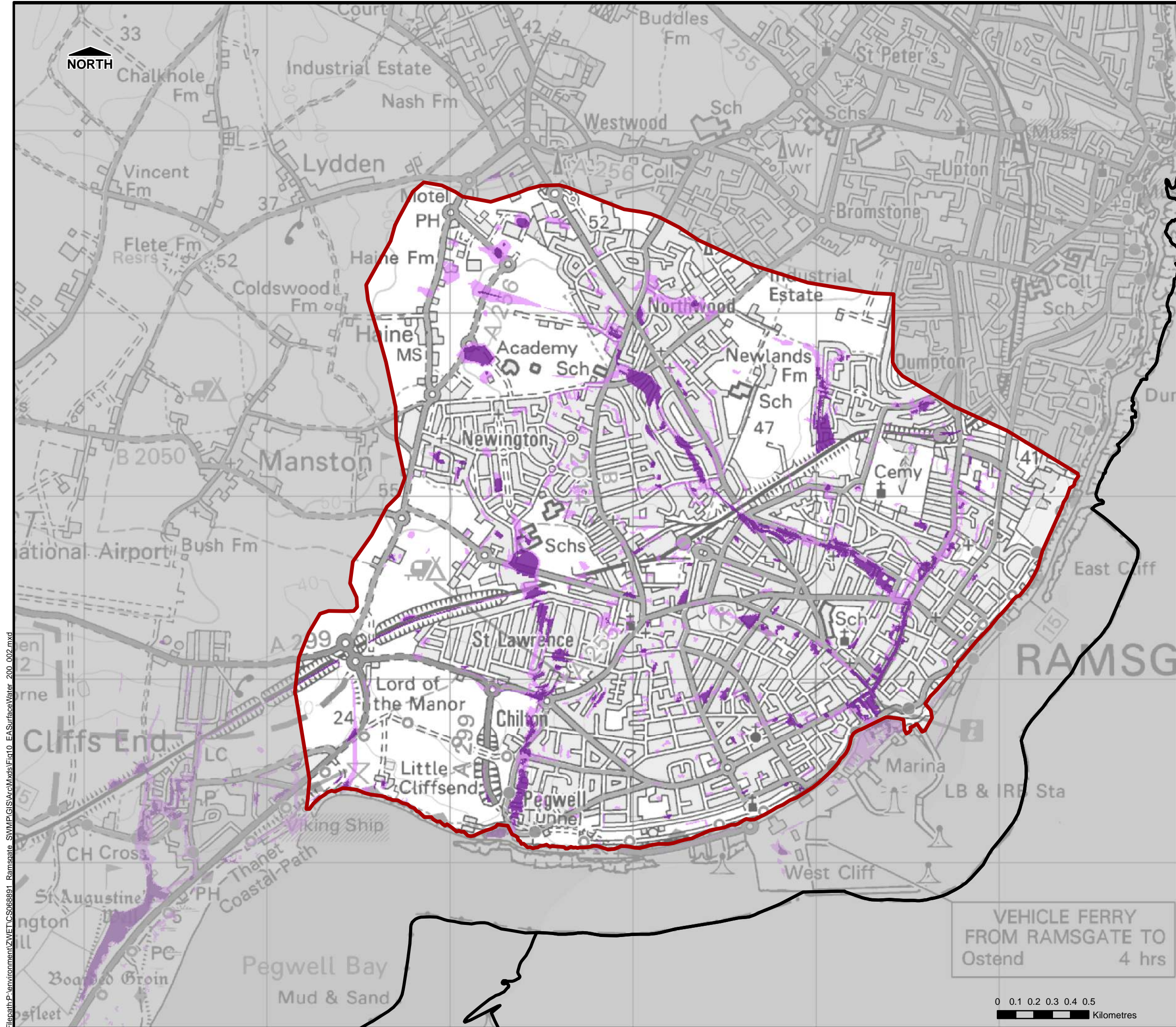
**Environment Agency
Flood Map for Surface Water
1 in 30 Year Probability
Overview**

Consultant

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EC2V 7NQ

FIGURE 9



THIS DRAWING MAY BE USED ONLY FOR THE PURPOSE INTENDED

Legend

-  Study Area
-  TDC Administrative Boundary
-  Main River
-  Ordinary Watercourse
-  Culverted Watercourse
-  Surface Water 1 in 200 year (Shallow)
-  Surface Water 1 in 200 year (Deep)

Notes

Ramsgate



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Scale at A3	Date	Drawn by	Approved by
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**Environment Agency
Flood Map for Surface Water
1 in 200 Year Probability
Overview**

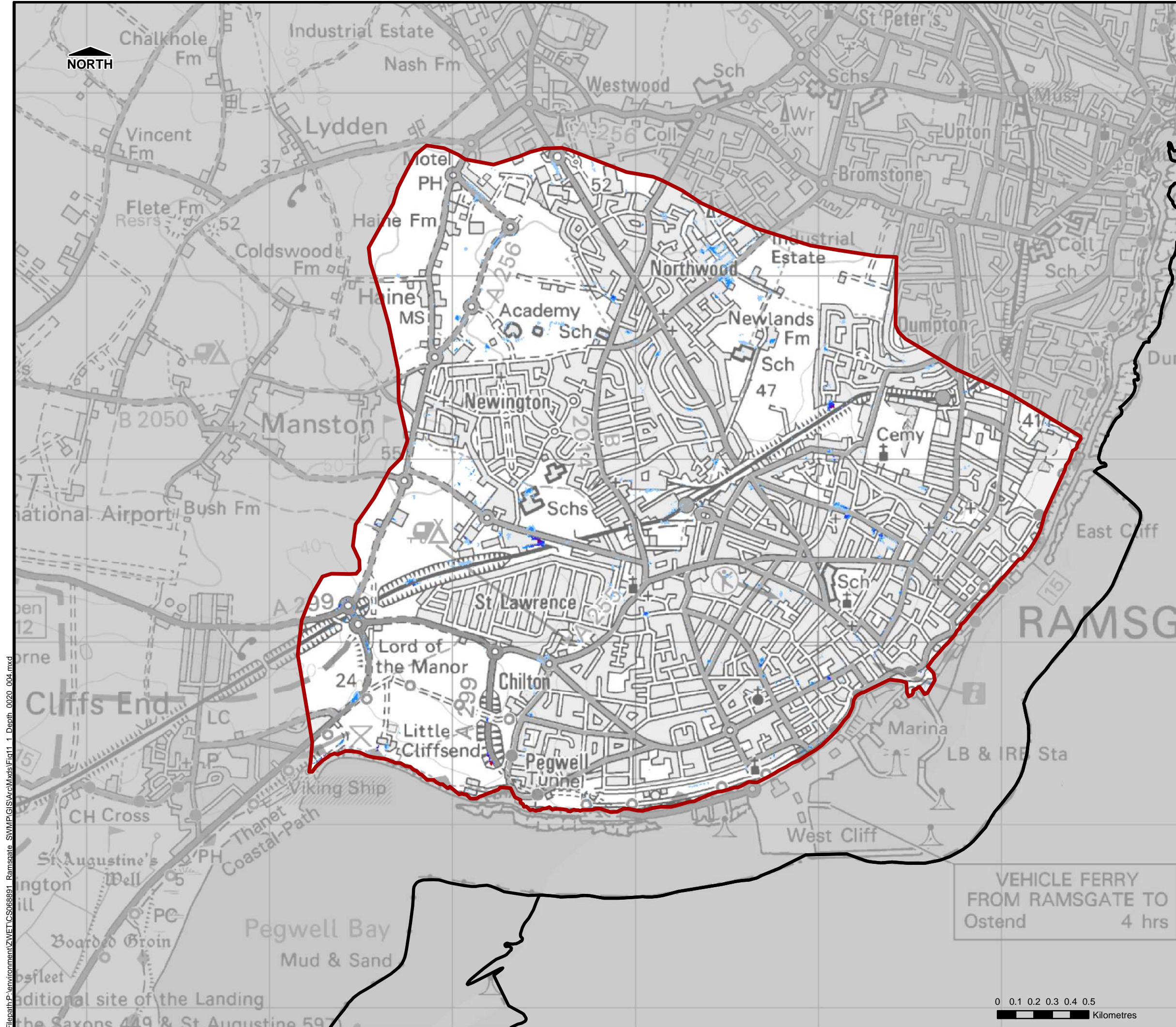
Consultant

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FIGURE 10

Filepath:P:\environment\Z\WET\CS068891_Ramsgate_SWMP\GIS\ArcMap\MapInfo_02.mxd



THIS DRAWING MAY BE USED ONLY FOR
THE PURPOSE INTENDED

Legend

-  Study Area
-  Administrative Boundary
- Flood Depth (m)**
 -  <0.1m
 -  0.1m - 0.25m
 -  0.25m - 0.5m
 -  0.5m - 1m
 -  1.0m - 1.5m
 -  >1.5m

Notes

Refer to Section 3 and Appendix D of the Ramsgate SWMP document for details of the limitations and assumptions that need to be accounted for when interpreting the modelled flood depths / hazard extents shown on this figure.

Ramsgate



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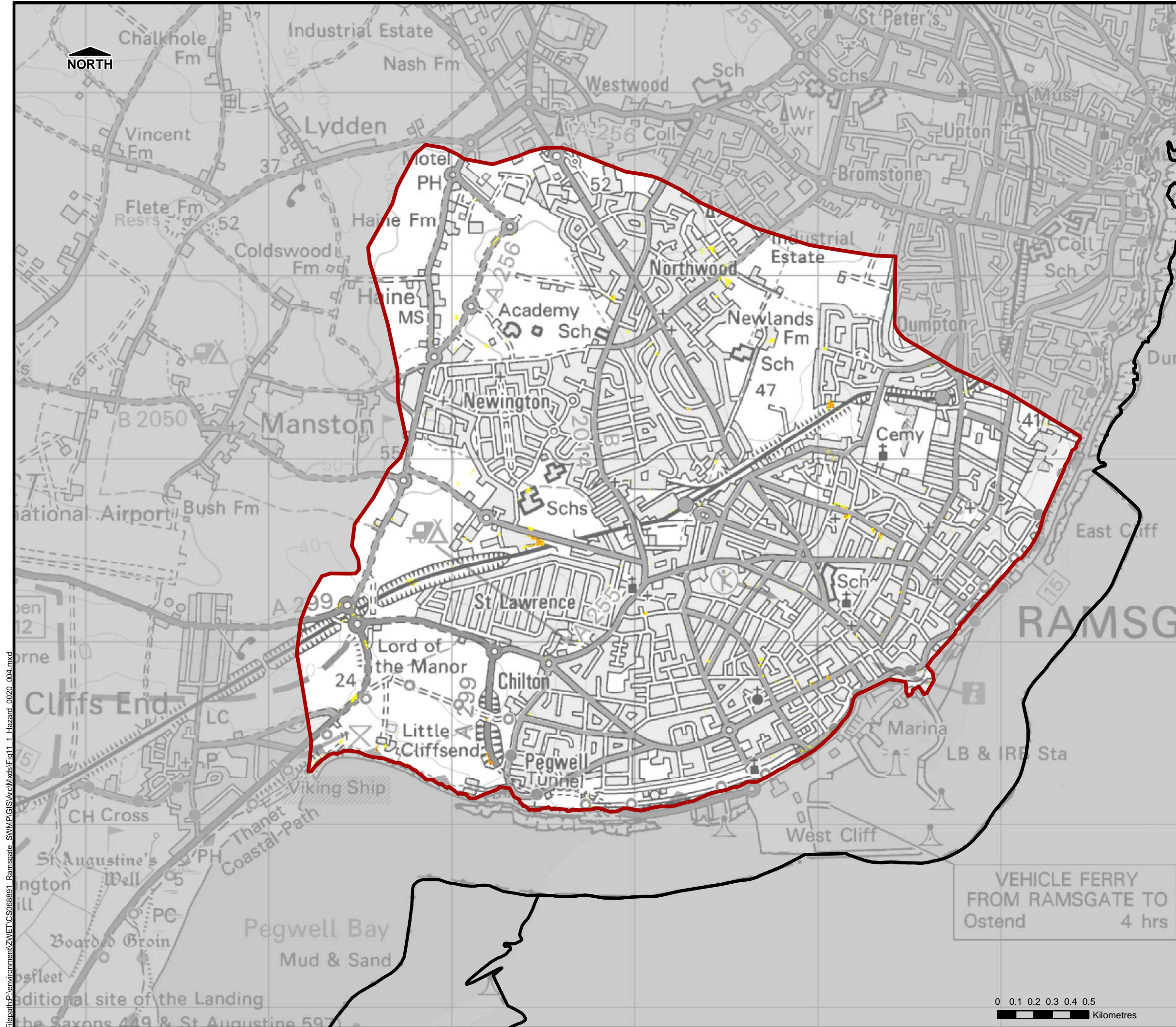
**Surface Water
Flood Depth
1 in 20yr, 3hr duration**

Consultant

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London
EC2V 7NQ

FIGURE 11_1







THIS DRAWING MAY BE USED ONLY FOR
THE PURPOSE INTENDED

Legend

-  Study Area
-  Administrative Boundary

Flood Hazard

-  Caution (Very Low Hazard)
-  Moderate (Danger for Some)
-  Significant (Danger for Most)
-  Extreme (Danger for All)

Notes

Refer to Section 3 and Appendix D of the Ramsgate SWMP document for details of the limitations and assumptions that need to be accounted for when interpreting the modelled flood depths / hazard extents shown on this figure.

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Scale at A3	Date	Drawn by	Approved by
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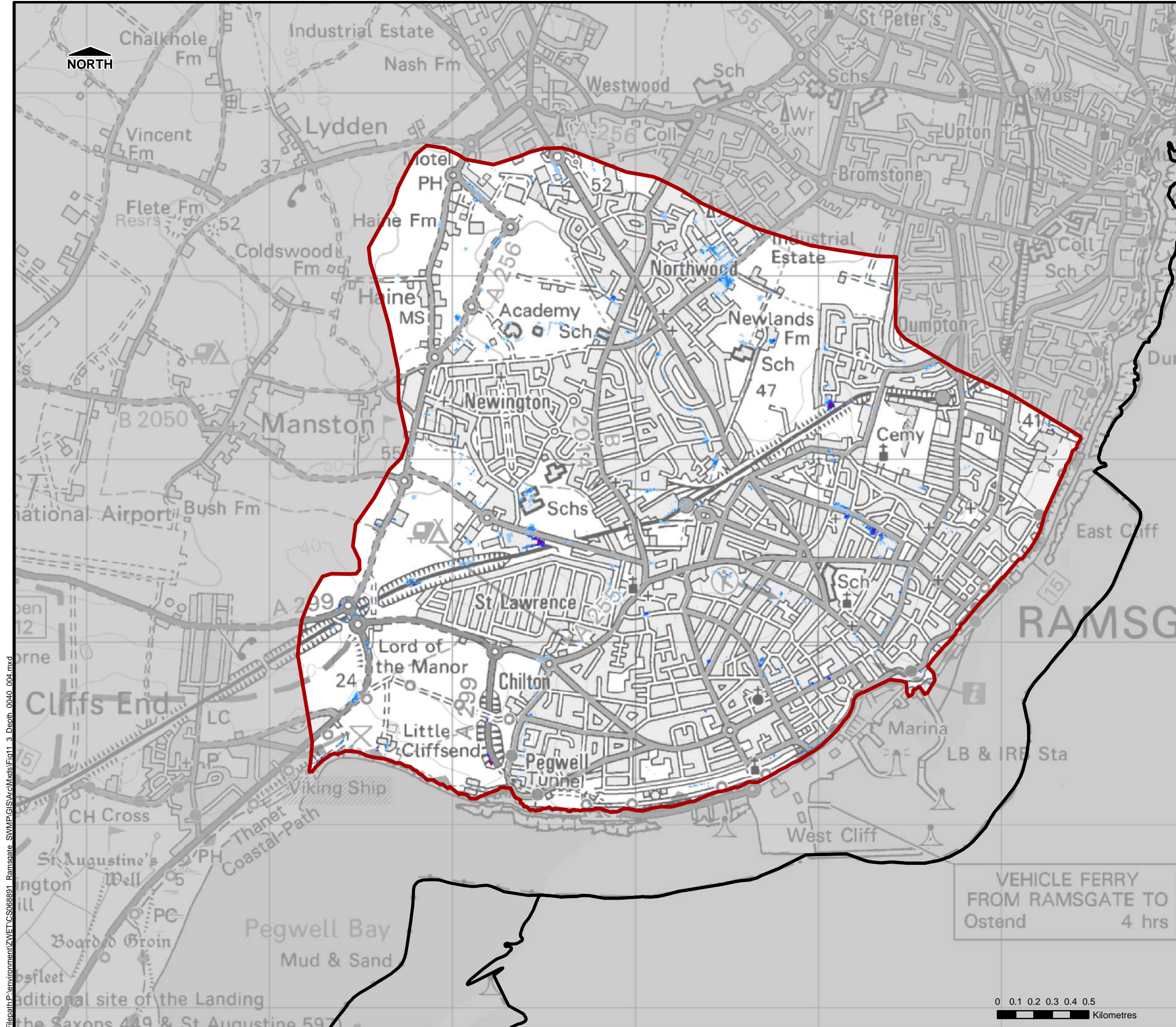
**Surface Water
Flood Hazard
1 in 20yr, 3hr duration**

Consultant

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EC2V 7NQ

FIGURE 11_2



THIS DRAWING MAY BE USED ONLY FOR
THE PURPOSE INTENDED

Legend

-  Study Area
-  Administrative Boundary
- Flood Depth (m)**
 -  <0.1m
 -  0.1m - 0.25m
 -  0.25m - 0.5m
 -  0.5m - 1m
 -  1.0m - 1.5m
 -  >1.5m

Notes

Refer to Section 3 and Appendix D of the Ramsgate SWMP document for details of the limitations and assumptions that need to be accounted for when interpreting the modelled flood depths / hazard extents shown on this figure.

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Scale at A3	Date	Drawn by	Approved by
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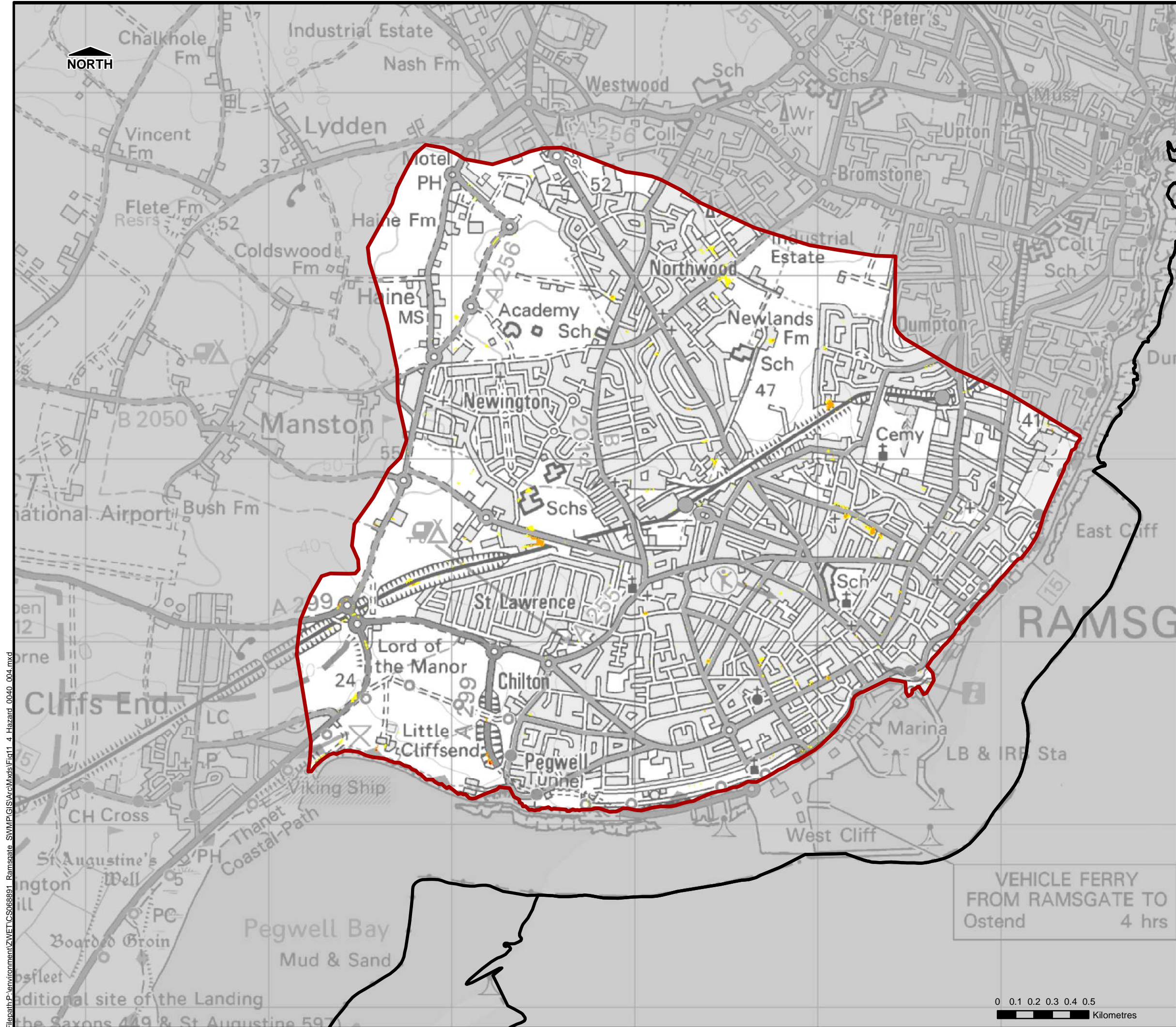
**Surface Water
Flood Depth
1 in 40yr, 3hr duration**

Consultant

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Flood Risk Management







Capita
65 Gresham Street
London
EC2V 7NQ

FIGURE 11_3



THIS DRAWING MAY BE USED ONLY FOR
THE PURPOSE INTENDED

Legend

-  Study Area
-  Administrative Boundary
- Flood Hazard**
 -  Caution (Very Low Hazard)
 -  Moderate (Danger for Some)
 -  Significant (Danger for Most)
 -  Extreme (Danger for All)

Notes

Refer to Section 3 and Appendix D of the Ramsgate SWMP document for details of the limitations and assumptions that need to be accounted for when interpreting the modelled flood depths / hazard extents shown on this figure.

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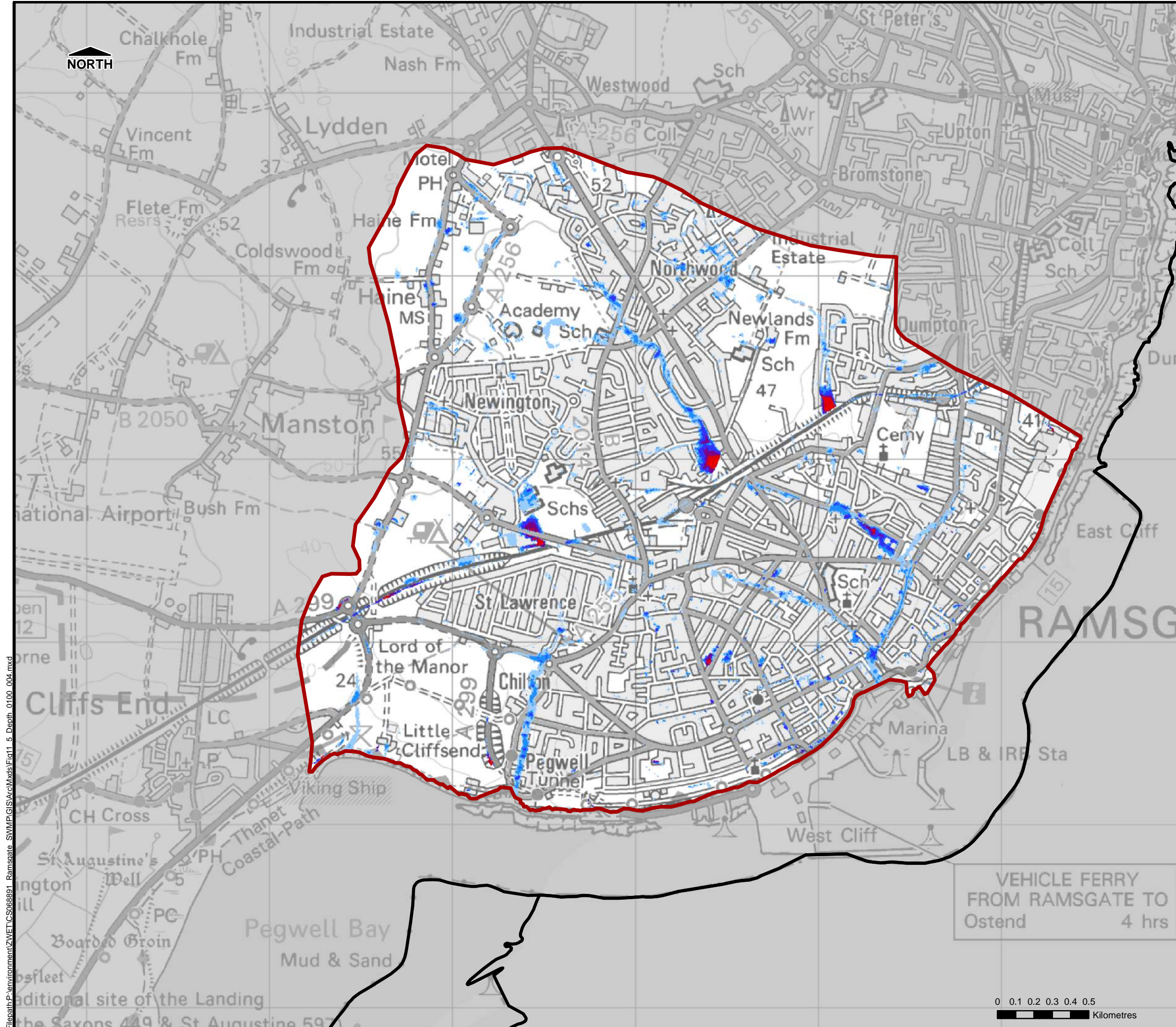
**Surface Water
Flood Hazard
1 in 40yr, 3hr duration**

Consultant

CAPITA
Flood Risk Management









Capita
65 Gresham Street
London
EC2V 7NQ

FIGURE 11_4



THIS DRAWING MAY BE USED ONLY FOR THE PURPOSE INTENDED

Legend

-  Study Area
-  Administrative Boundary
- Flood Depth (m)**
 -  <0.1m
 -  0.1m - 0.25m
 -  0.25m - 0.5m
 -  0.5m - 1m
 -  1.0m - 1.5m
 -  >1.5m

Notes

Refer to Section 3 and Appendix D of the Ramsgate SWMP document for details of the limitations and assumptions that need to be accounted for when interpreting the modelled flood depths / hazard extents shown on this figure.

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Scale at A3	Date	Drawn by	Approved by
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**Surface Water
Flood Depth
1 in 100yr, 3hr duration**

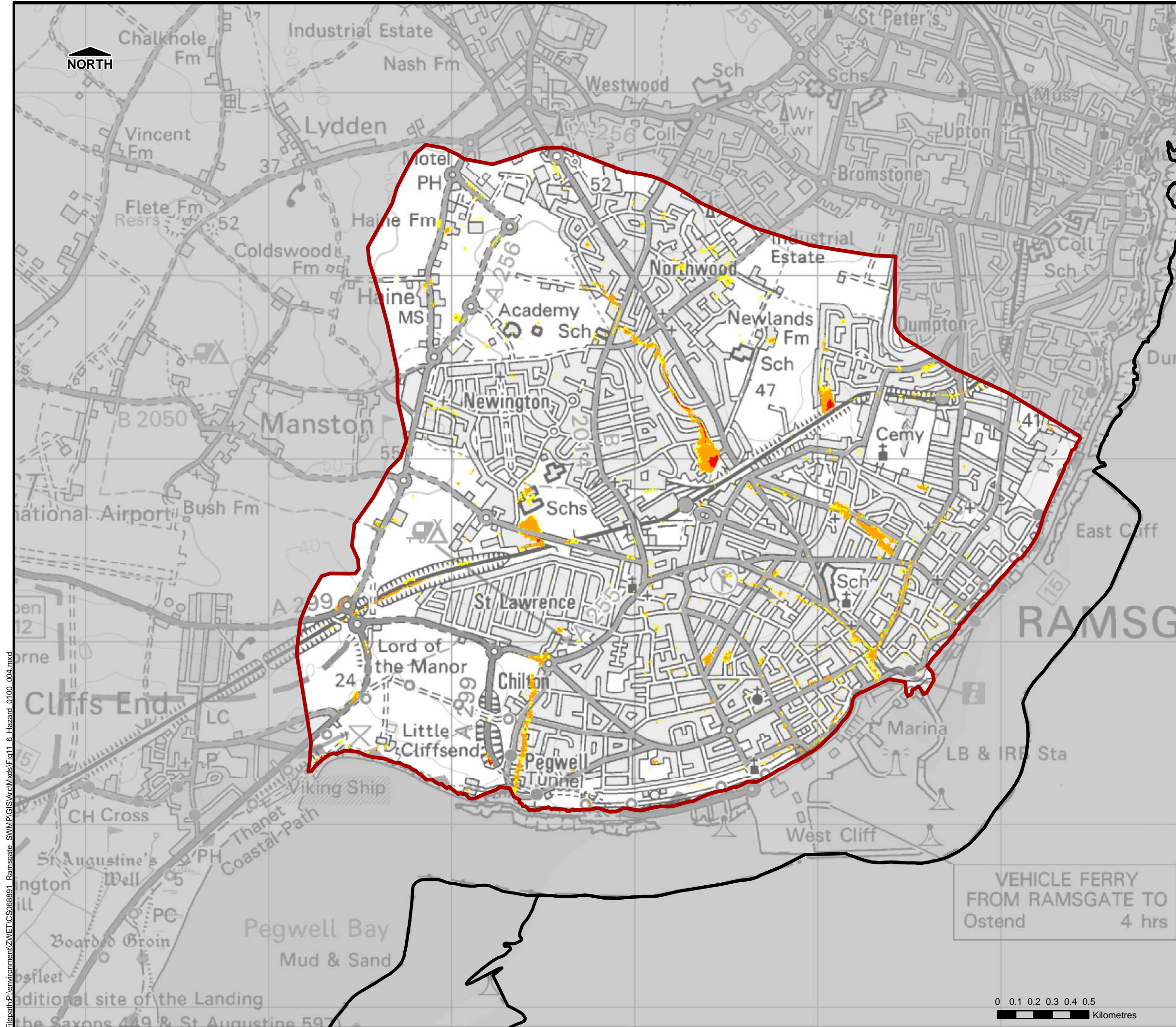
Consultant

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FIGURE 11_5

Filepath: P:\environment\2\WET\CS068891_Ramsgate_SWMP\GIS\ArcMap\Fig11_5_Depth_0100_004.mxd







THIS DRAWING MAY BE USED ONLY FOR
THE PURPOSE INTENDED

Legend

-  Study Area
-  Administrative Boundary

Flood Hazard

-  Caution (Very Low Hazard)
-  Moderate (Danger for Some)
-  Significant (Danger for Most)
-  Extreme (Danger for All)

Notes

Refer to Section 3 and Appendix D of the Ramsgate SWMP document for details of the limitations and assumptions that need to be accounted for when interpreting the modelled flood depths / hazard extents shown on this figure.

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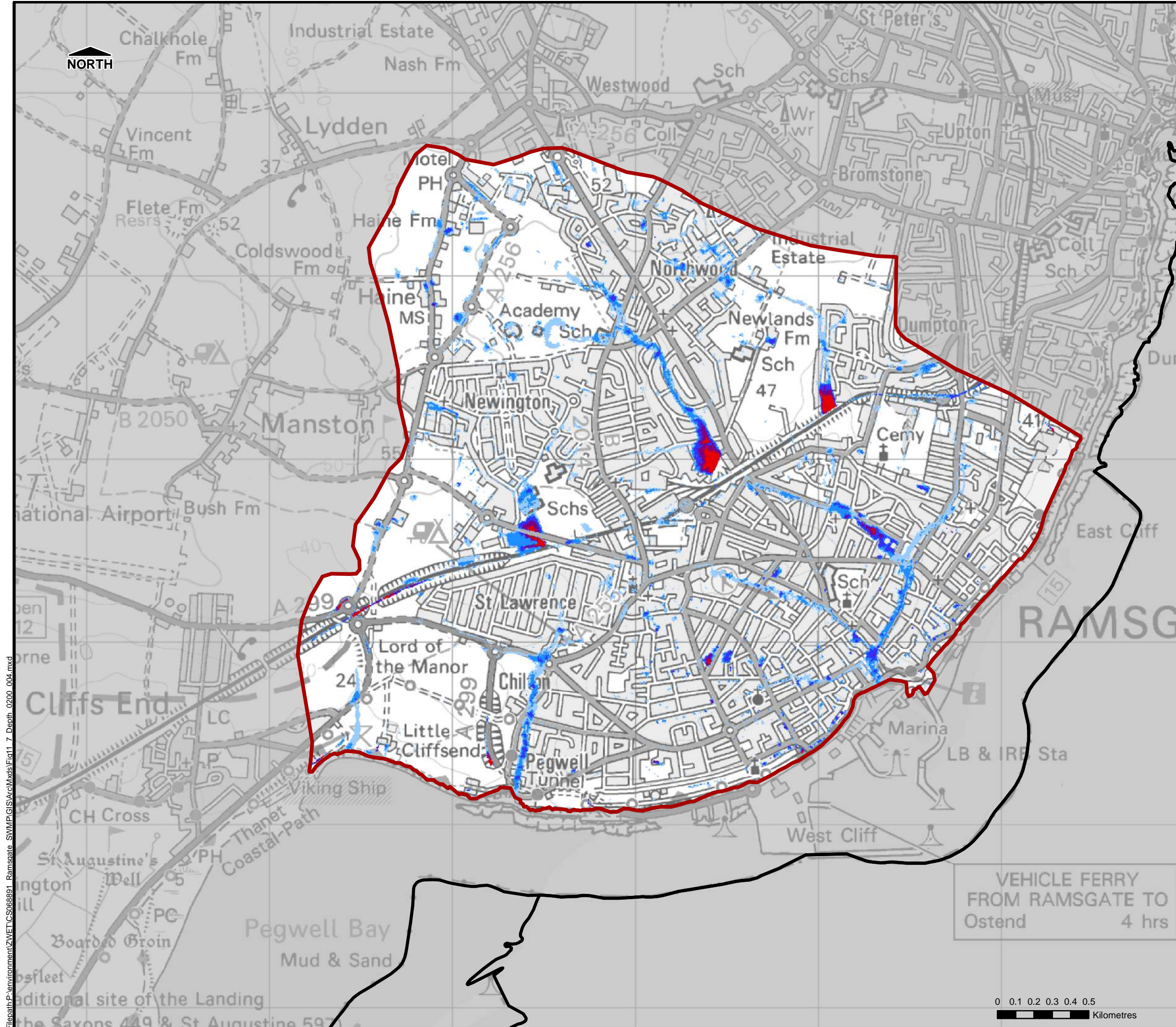
**Surface Water
Flood Hazard
1 in 100yr, 3hr duration**

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London
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FIGURE 11_6



THIS DRAWING MAY BE USED ONLY FOR
THE PURPOSE INTENDED

Legend

-  Study Area
-  Administrative Boundary
- Flood Depth (m)**
 -  <0.1m
 -  0.1m - 0.25m
 -  0.25m - 0.5m
 -  0.5m - 1m
 -  1.0m - 1.5m
 -  >1.5m

Notes

Refer to Section 3 and Appendix D of the Ramsgate SWMP document for details of the limitations and assumptions that need to be accounted for when interpreting the modelled flood depths / hazard extents shown on this figure.

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Scale at A3	Date	Drawn by	Approved by
1:20,000	Mar. 2015	G.ATHANASIA	M.ARTHUR

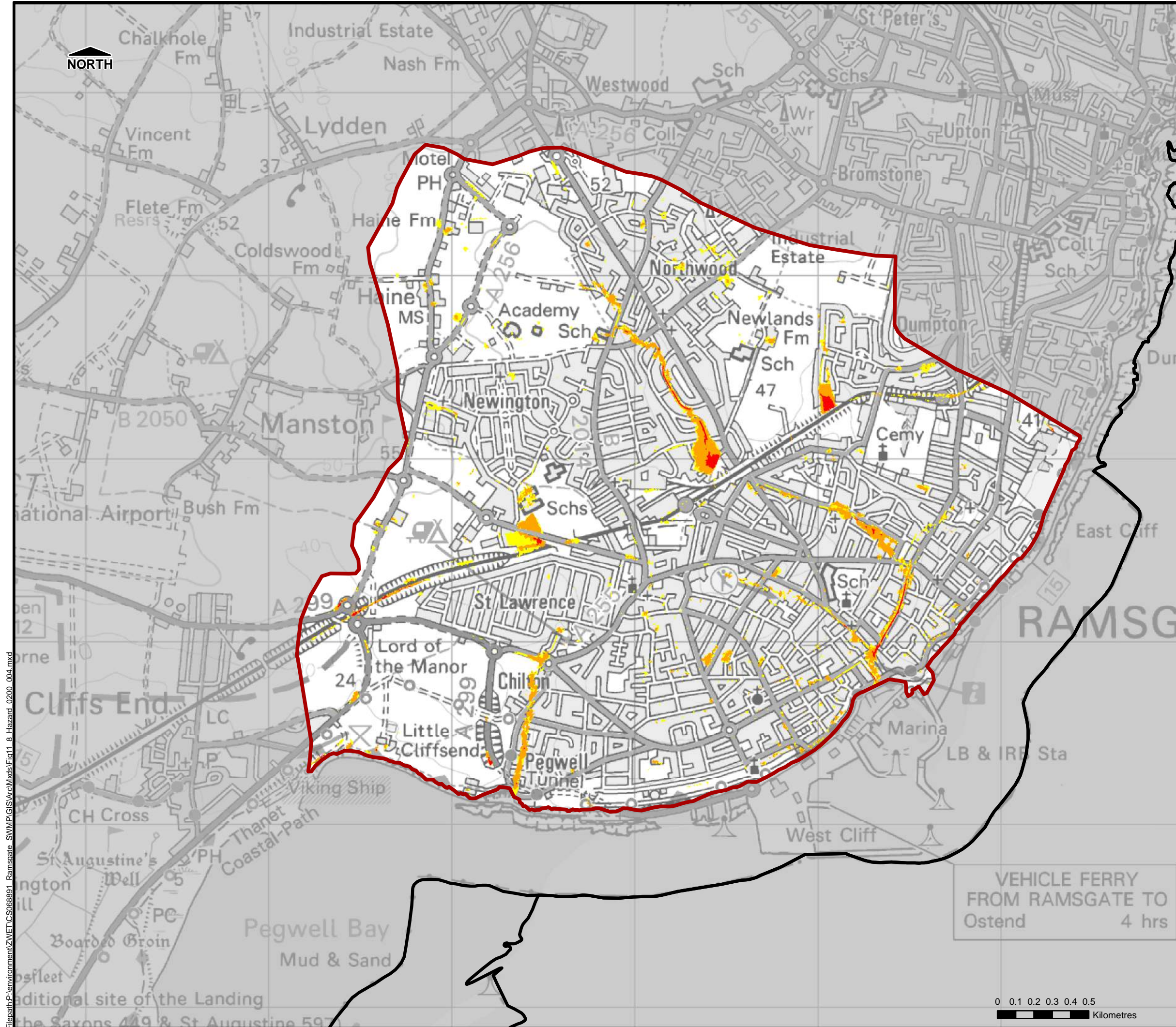
**Surface Water
Flood Depth
1 in 200yr, 3hr duration**

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FIGURE 11_7







THIS DRAWING MAY BE USED ONLY FOR
THE PURPOSE INTENDED

Legend

-  Study Area
-  Administrative Boundary

Flood Hazard

-  Caution (Very Low Hazard)
-  Moderate (Danger for Some)
-  Significant (Danger for Most)
-  Extreme (Danger for All)

Notes

Refer to Section 3 and Appendix D of the Ramsgate SWMP document for details of the limitations and assumptions that need to be accounted for when interpreting the modelled flood depths / hazard extents shown on this figure.

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Scale at A3	Date	Drawn by	Approved by
1:20,000	Mar. 2015	G.ATHANASIA	M.ARTHUR

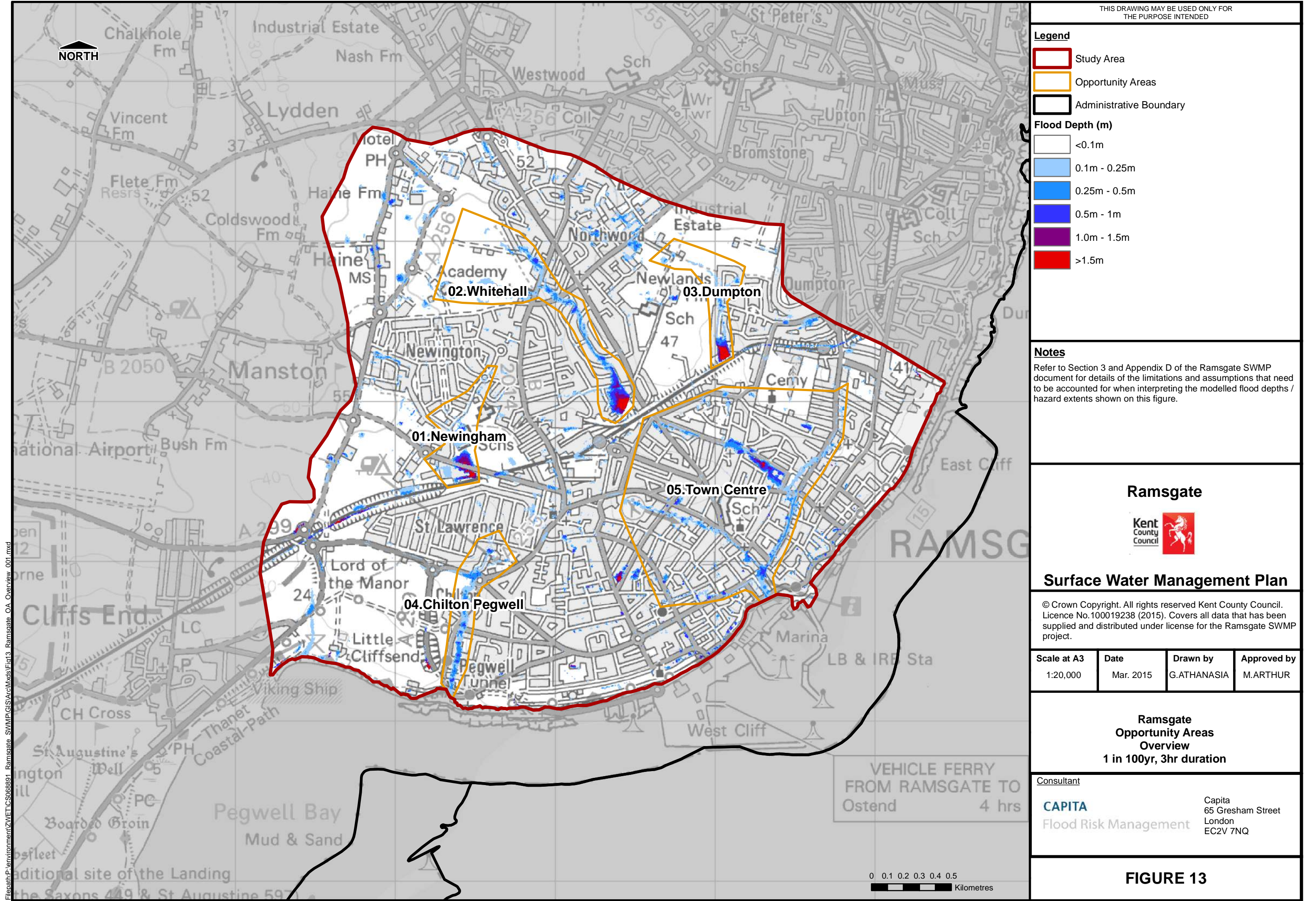
**Surface Water
Flood Hazard
1 in 200yr, 3hr duration**

Consultant

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FIGURE 11_8



THIS DRAWING MAY BE USED ONLY FOR THE PURPOSE INTENDED

Legend

- Study Area
- Opportunity Areas
- Administrative Boundary

Flood Depth (m)

- <0.1m
- 0.1m - 0.25m
- 0.25m - 0.5m
- 0.5m - 1m
- 1.0m - 1.5m
- >1.5m

Notes

Refer to Section 3 and Appendix D of the Ramsgate SWMP document for details of the limitations and assumptions that need to be accounted for when interpreting the modelled flood depths / hazard extents shown on this figure.

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Scale at A3	Date	Drawn by	Approved by
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Ramsgate Opportunity Areas Overview
1 in 100yr, 3hr duration

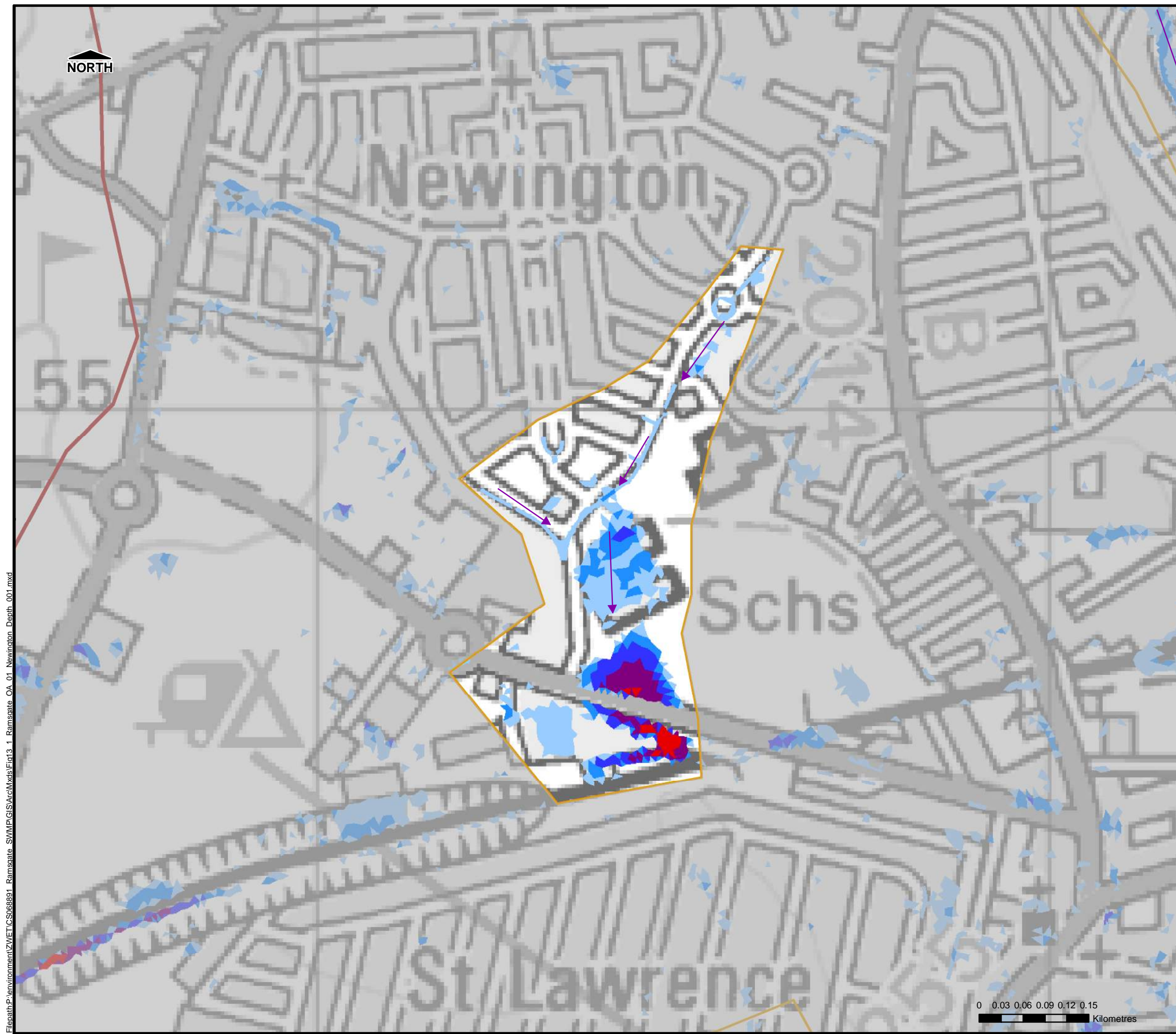
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FIGURE 13

Filepath:P:\environment\2\WET\CS068891_Ramsgate_SWMP\GIS\ArcMxds\Fig13_1_Ramsgate_OA_01_Newington_Depth_001.mxd









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THE PURPOSE INTENDED

Legend

-  Study Area
-  Opportunity Areas
-  Administrative Boundary
-  Flow Direction

Flood Depth (m)

-  <0.1m
-  0.1m - 0.25m
-  0.25m - 0.5m
-  0.5m - 1m
-  1.0m - 1.5m
-  >1.5m

Notes

Refer to Section 3 and Appendix D of the Ramsgate SWMP document for details of the limitations and assumptions that need to be accounted for when interpreting the modelled flood depths / hazard extents shown on this figure.

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Scale at A3	Date	Drawn by	Approved by
1:5,000	Mar. 2015	G.ATHANASIA	M.ARTHUR

Ramsgate Opportunity Areas 01.Newington 1 in 100yr, 3hr duration

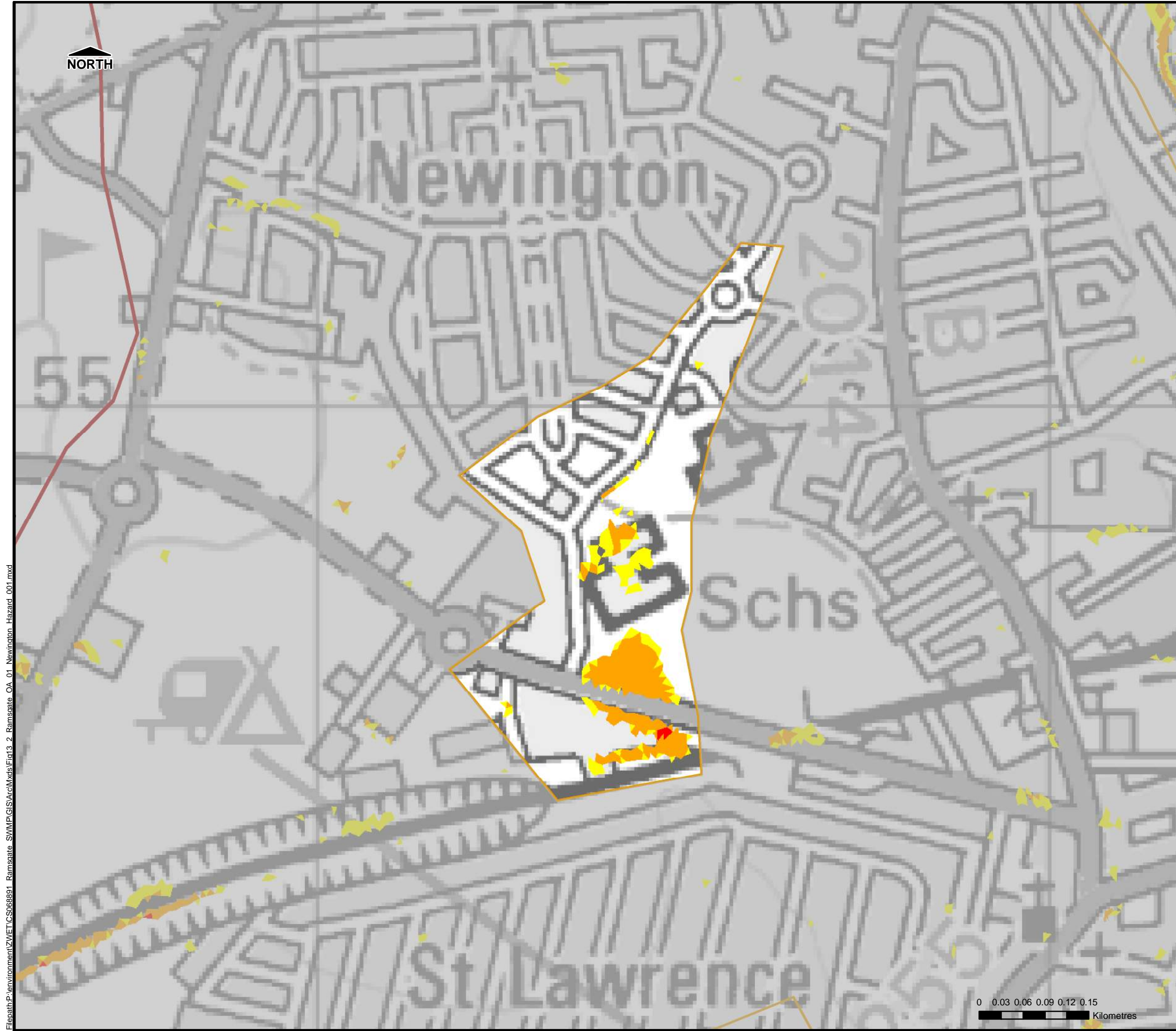
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FIGURE 13_1

Filepath:P:\environment\2\WET\CS068891_Ramsgate_SWMP\GIS\ArcMap\Fig13_2_Ramsgate_OA_01_Newington_Hazard_001.mxd







THIS DRAWING MAY BE USED ONLY FOR THE PURPOSE INTENDED

Legend

-  Study Area
-  Opportunity Areas
-  Administrative Boundary

Flood Hazard

-  Caution (Very Low Hazard)
-  Moderate (Danger for Some)
-  Significant (Danger for Most)
-  Extreme (Danger for All)

Notes

Refer to Section 3 and Appendix D of the Ramsgate SWMP document for details of the limitations and assumptions that need to be accounted for when interpreting the modelled flood depths / hazard extents shown on this figure.

Ramsgate



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**Ramsgate Opportunity Areas
01.Newington
1 in 100yr, 3hr duration**

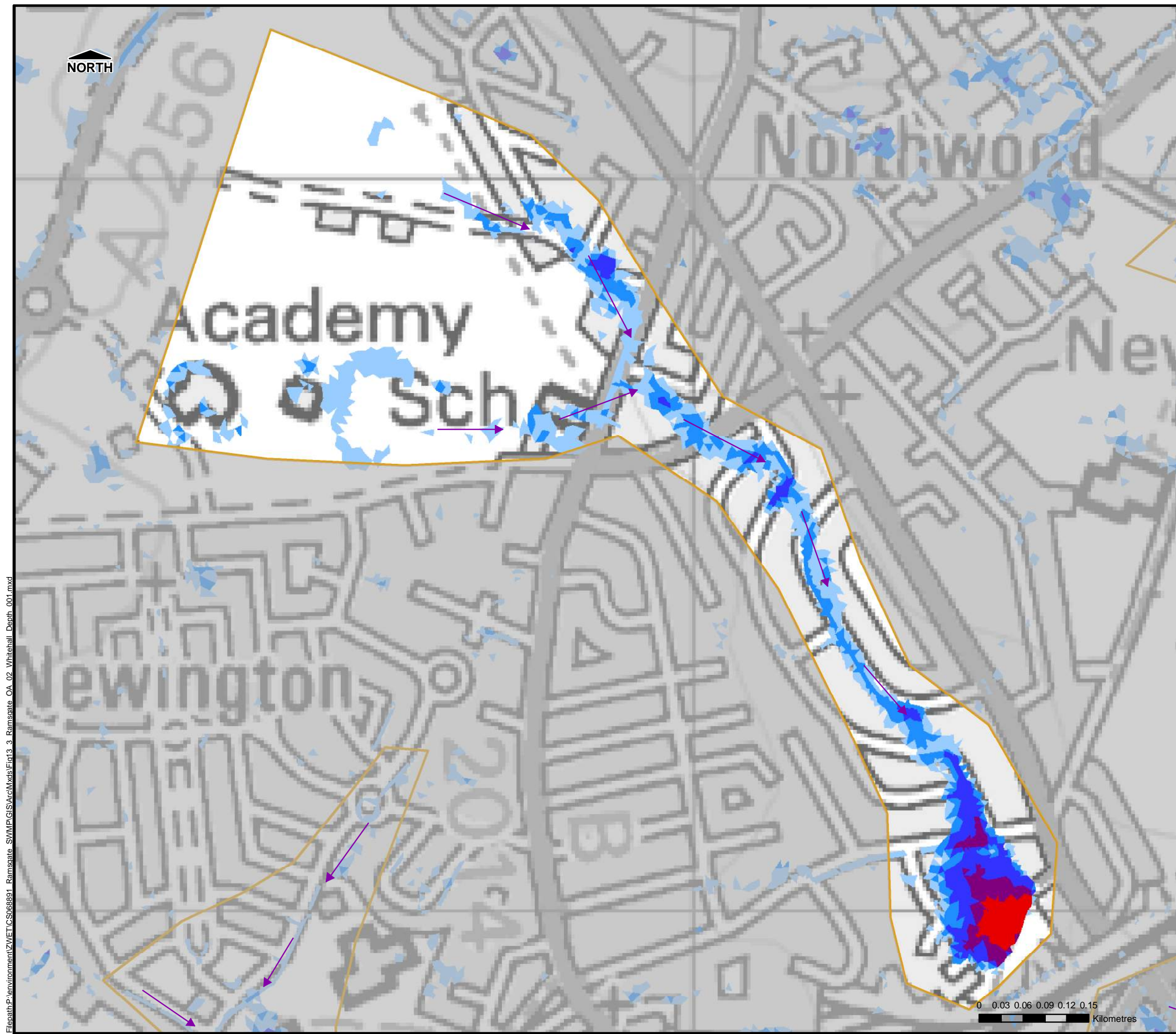
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FIGURE 13_2

Filepath: P:\environment\2\WET\CS068891_Ramsgate_SWMP\GISArcMxds\Fig13_3_Ramsgate_OA_02_Whitehall_Depth_001.mxd



THIS DRAWING MAY BE USED ONLY FOR THE PURPOSE INTENDED

Legend

- Study Area
- Opportunity Areas
- Administrative Boundary
- Flow Direction

Flood Depth (m)

- <0.1m
- 0.1m - 0.25m
- 0.25m - 0.5m
- 0.5m - 1m
- 1.0m - 1.5m
- >1.5m

Notes

Refer to Section 3 and Appendix D of the Ramsgate SWMP document for details of the limitations and assumptions that need to be accounted for when interpreting the modelled flood depths / hazard extents shown on this figure.

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**Ramsgate Opportunity Areas
02.Whitehall
1 in 100yr, 3hr duration**

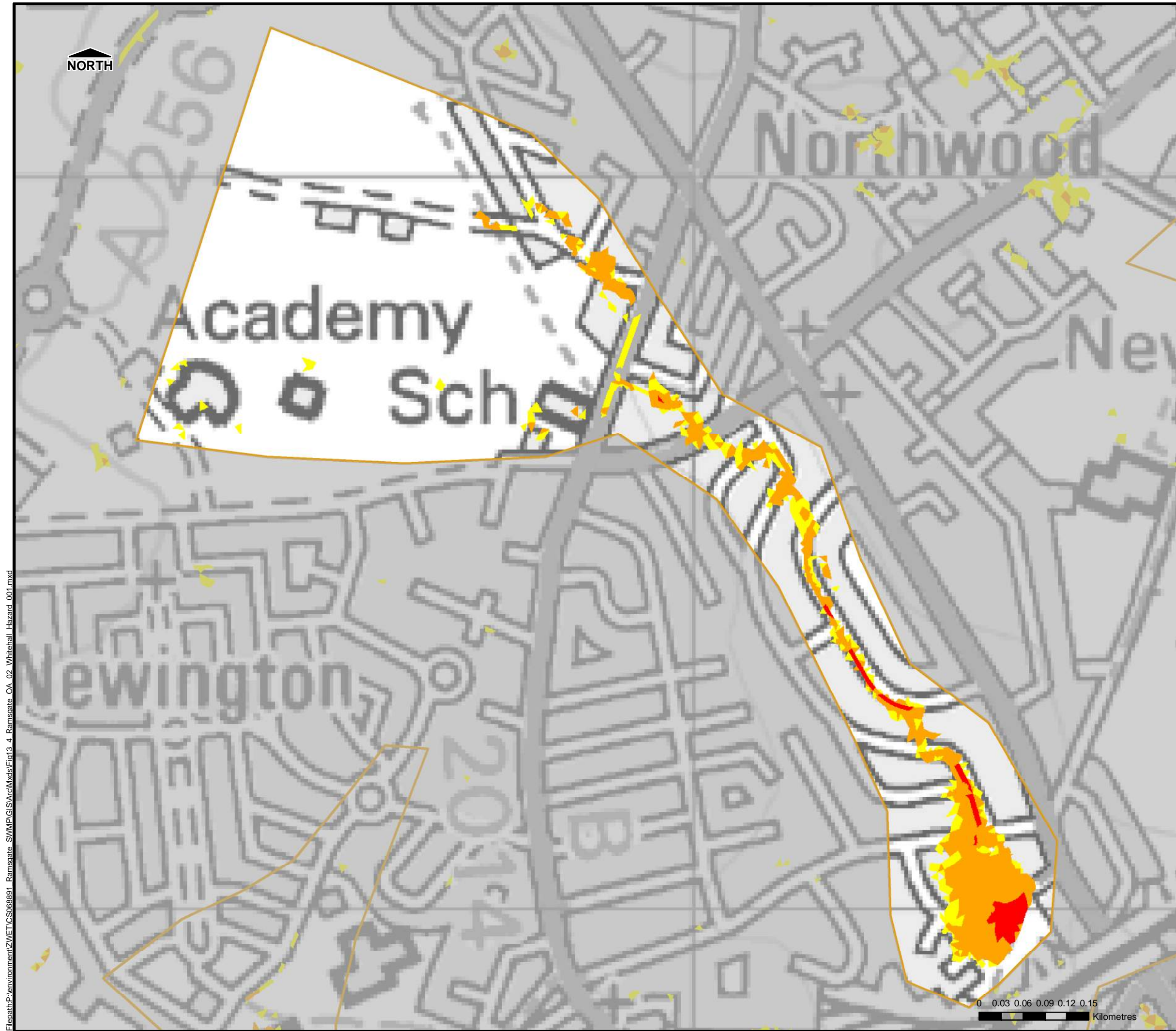
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FIGURE 13_3

Filepath:P:\environment\2\WET\CS068891_Ramsgate_SWMP\GIS\ArcMxds\Fig13_4_Ramsgate_OA_02_Whitehall_Hazard_001.mxd









THIS DRAWING MAY BE USED ONLY FOR
THE PURPOSE INTENDED

Legend

-  Study Area
-  Opportunity Areas
-  Administrative Boundary

Flood Depth (m)

-  <0.1m
-  0.1m - 0.25m
-  0.25m - 0.5m
-  0.5m - 1m
-  1.0m - 1.5m
-  >1.5m

Notes

Refer to Section 3 and Appendix D of the Ramsgate SWMP document for details of the limitations and assumptions that need to be accounted for when interpreting the modelled flood depths / hazard extents shown on this figure.

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**Ramsgate
Opportunity Areas
02.Whitehall
1 in 100yr, 3hr duration**

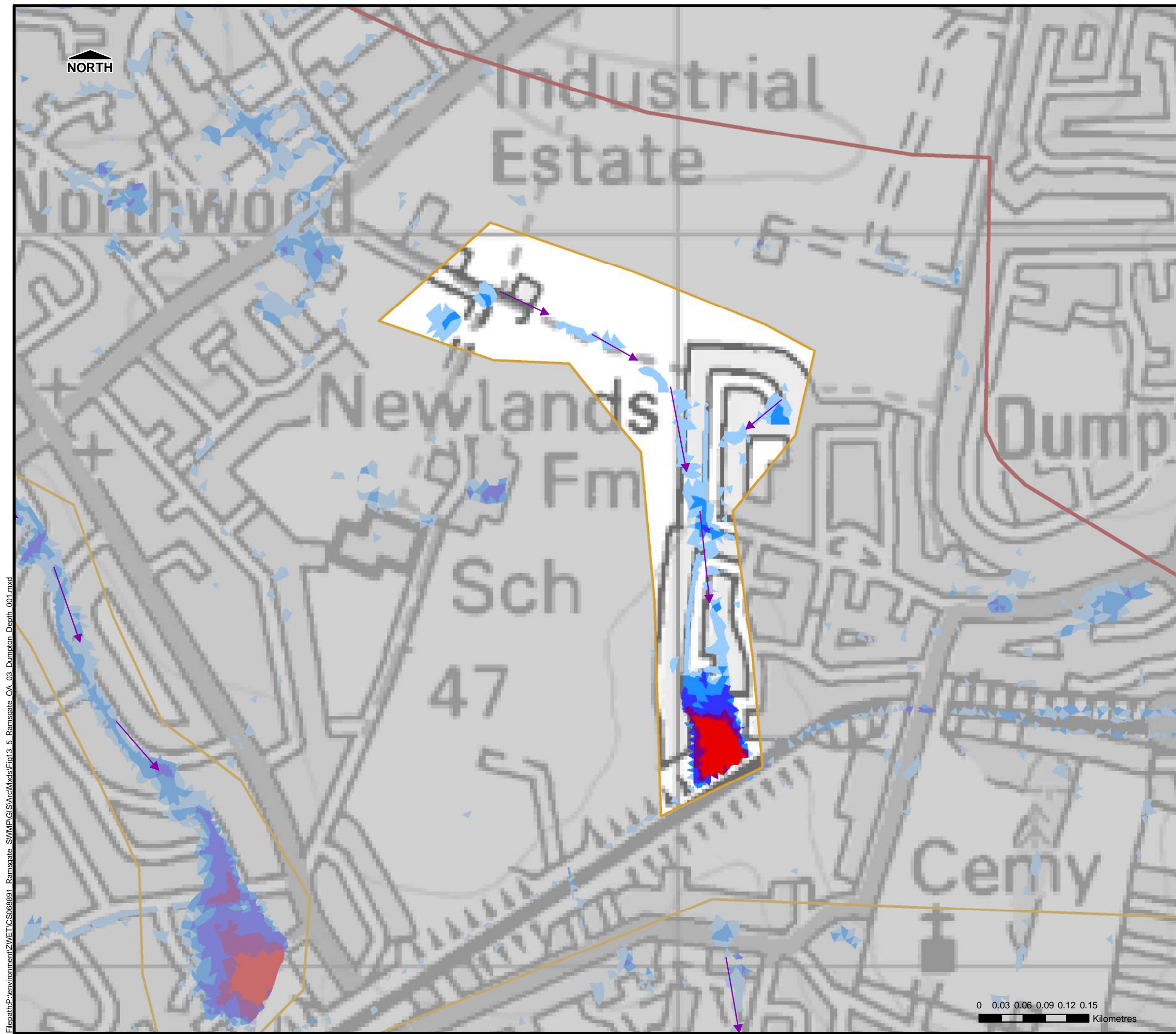
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FIGURE 13_4

Filepath: P:\environment\2\WET\CS068891_Ramsgate_SWMP\GIS\ArcMxds\Fig13_5_Ramsgate_OA_03_Dumpton_Depth_001.mxd



THIS DRAWING MAY BE USED ONLY FOR THE PURPOSE INTENDED

Legend

- Study Area
- Opportunity Areas
- Administrative Boundary
- Flow Direction
- Flood Depth (m)**
 - <0.1m
 - 0.1m - 0.25m
 - 0.25m - 0.5m
 - 0.5m - 1m
 - 1.0m - 1.5m
 - >1.5m

Notes

Refer to Section 3 and Appendix D of the Ramsgate SWMP document for details of the limitations and assumptions that need to be accounted for when interpreting the modelled flood depths / hazard extents shown on this figure.

Ramsgate



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**Ramsgate
Opportunity Areas
03.Dumpton
1 in 100yr, 3hr duration**

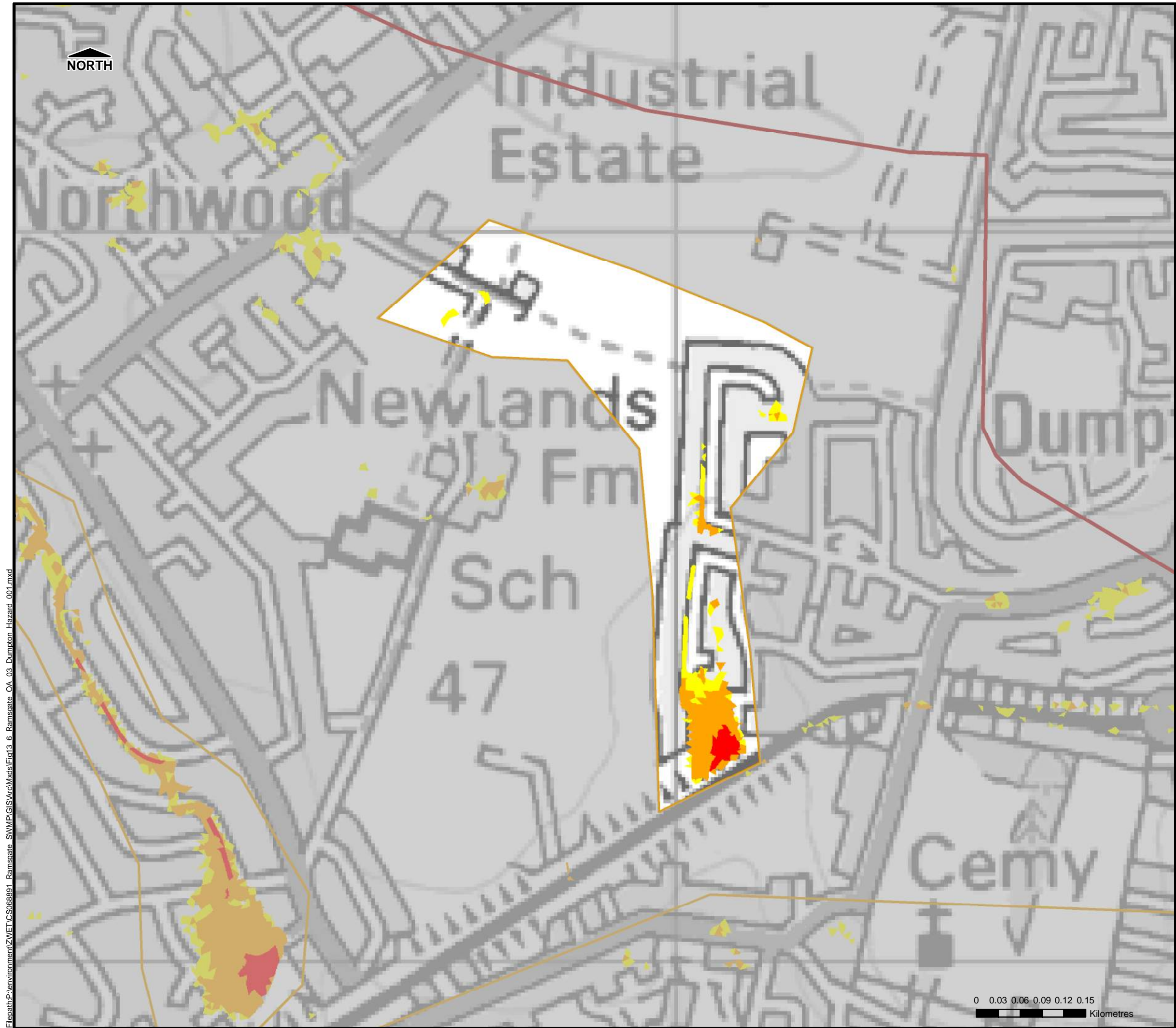
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FIGURE 13_5

Filepath: P:\environment\2\WET\CS068891_Ramsgate_SWMP\GIS\ArcMap\fig13_6_Ramsgate_OA_03_Dumpton_Hazard_001.mxd







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THE PURPOSE INTENDED

Legend

-  Study Area
-  Opportunity Areas
-  Administrative Boundary

Flood Hazard

-  Caution (Very Low Hazard)
-  Moderate (Danger for Some)
-  Significant (Danger for Most)
-  Extreme (Danger for All)

Notes

Refer to Section 3 and Appendix D of the Ramsgate SWMP document for details of the limitations and assumptions that need to be accounted for when interpreting the modelled flood depths / hazard extents shown on this figure.

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**Ramsgate
Opportunity Areas
03.Dumpton
1 in 100yr, 3hr duration**

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FIGURE 13_6

Filepath:P:\environment\2\WET\CS068891_Ramsgate_SWMP\GIS\ArcMxds\Fig13_7_Ramsgate_OA_04_Chilton_Pegwell_Depth_001.mxd



THIS DRAWING MAY BE USED ONLY FOR THE PURPOSE INTENDED

Legend

- Study Area
- Opportunity Areas
- Administrative Boundary
- Flow Direction

Flood Depth (m)

- <0.1m
- 0.1m - 0.25m
- 0.25m - 0.5m
- 0.5m - 1m
- 1.0m - 1.5m
- >1.5m

Notes

Refer to Section 3 and Appendix D of the Ramsgate SWMP document for details of the limitations and assumptions that need to be accounted for when interpreting the modelled flood depths / hazard extents shown on this figure.

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**Ramsgate
Opportunity Areas
04.Chilton/Pegwell
1 in 100yr, 3hr duration**

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FIGURE 13_7

Filepath:P:\environment\2\WET\CS068891_Ramsgate_SWMP\GIS\ArcMxds\Fig13_8_Ramsgate_OA_04_Chilton_Pegwell_Hazard_001.mxd







THIS DRAWING MAY BE USED ONLY FOR THE PURPOSE INTENDED

Legend

-  Study Area
-  Opportunity Areas
-  Administrative Boundary

Flood Hazard

-  Caution (Very Low Hazard)
-  Moderate (Danger for Some)
-  Significant (Danger for Most)
-  Extreme (Danger for All)

Notes

Refer to Section 3 and Appendix D of the Ramsgate SWMP document for details of the limitations and assumptions that need to be accounted for when interpreting the modelled flood depths / hazard extents shown on this figure.

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**Ramsgate
Opportunity Areas
04.Chilton/Pegwell
1 in 100yr, 3hr duration**

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FIGURE 13_8

Filepath:P:\environment\ZWE\TCS068891_Ramsgate_SWMP\GISArcMxds\Fig13_9_Ramsgate_OA_05_Town_Centre_Depth_001.mxd



THIS DRAWING MAY BE USED ONLY FOR
THE PURPOSE INTENDED

Legend

- Study Area
- Opportunity Areas
- Administrative Boundary
- Flow Direction

Flood Depth (m)

- <0.1m
- 0.1m - 0.25m
- 0.25m - 0.5m
- 0.5m - 1m
- 1.0m - 1.5m
- >1.5m

Notes

Refer to Section 3 and Appendix D of the Ramsgate SWMP document for details of the limitations and assumptions that need to be accounted for when interpreting the modelled flood depths / hazard extents shown on this figure.

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Ramsgate Opportunity Areas 05.Town Centre 1 in 100yr, 3hr duration

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FIGURE 13_9

Filepath:P:\environment\2\WET\CS068891_Ramsgate_SWMP\GIS\ArcMxds\Fig13_10_Ramsgate_OA_05_Town_Centre_Hazard_001.mxd



THIS DRAWING MAY BE USED ONLY FOR THE PURPOSE INTENDED

Legend

- Study Area
- Opportunity Areas
- Administrative Boundary

Flood Hazard

- Caution (Very Low Hazard)
- Moderate (Danger for Some)
- Significant (Danger for Most)
- Extreme (Danger for All)

Notes

Refer to Section 3 and Appendix D of the Ramsgate SWMP document for details of the limitations and assumptions that need to be accounted for when interpreting the modelled flood depths / hazard extents shown on this figure.

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**Ramsgate
Opportunity Areas
05.Town Centre
1 in 100yr, 3hr duration**

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FIGURE 13_10