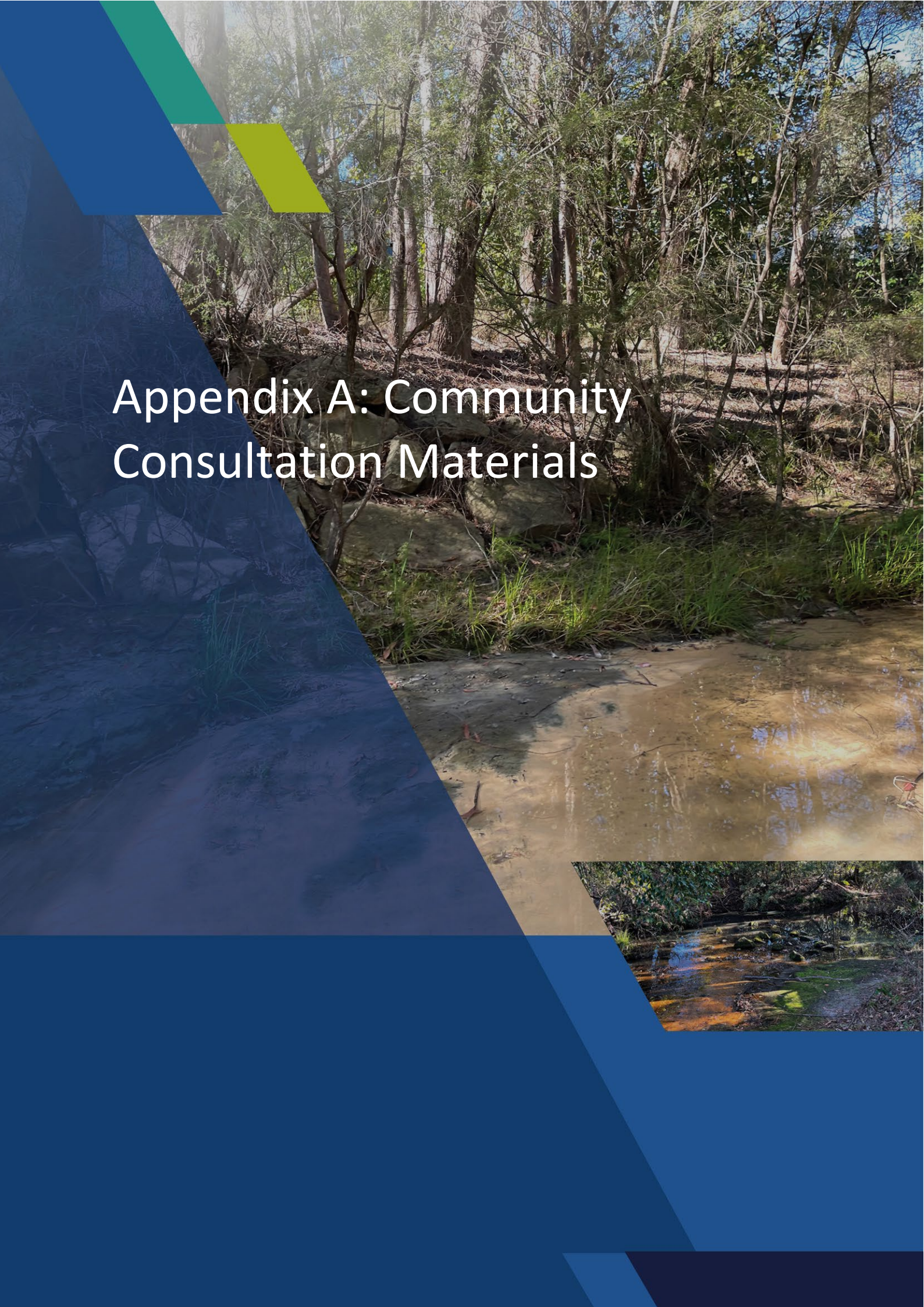


# Appendix A: Community Consultation Materials

18 August 2023

[address_1]
[ADDRESS_2]

Dear [Owner/Occupant]

**RE: SOMERSBY & KARIONG CATCHMENTS OVERLAND FLOOD STUDY**

Central Coast Council, with financial and technical support from the NSW Department of Planning and Environment, have recently commenced the Somersby & Kariong Catchments Overland Flood Study. The study area consists of the Kariong residential area, the Somersby industrial area, and the rural residential area immediately to its north. An image of the study area is included overleaf.

The objective of this study is to define the nature of flooding in the catchments of Kariong and Somersby to provide an improved understanding of flood behaviour and associated flood risk. An improved understanding of flood behaviour then enables effective management of flood risk in the study area.

Council has engaged Kellogg Brown & Root Pty Ltd (KBR), an independent consultant, to prepare the study.

As your property is located within the study area, we would appreciate your participation in this study by completing the short questionnaire that is enclosed and returning it by close of business 22 September 2023.

You can do this by:

- visiting the following link: https://forms.office.com/r/ZpPb3ULDcL, or
- filling out the enclosed survey and emailing it to Joshua. Eggleton@kbr.com

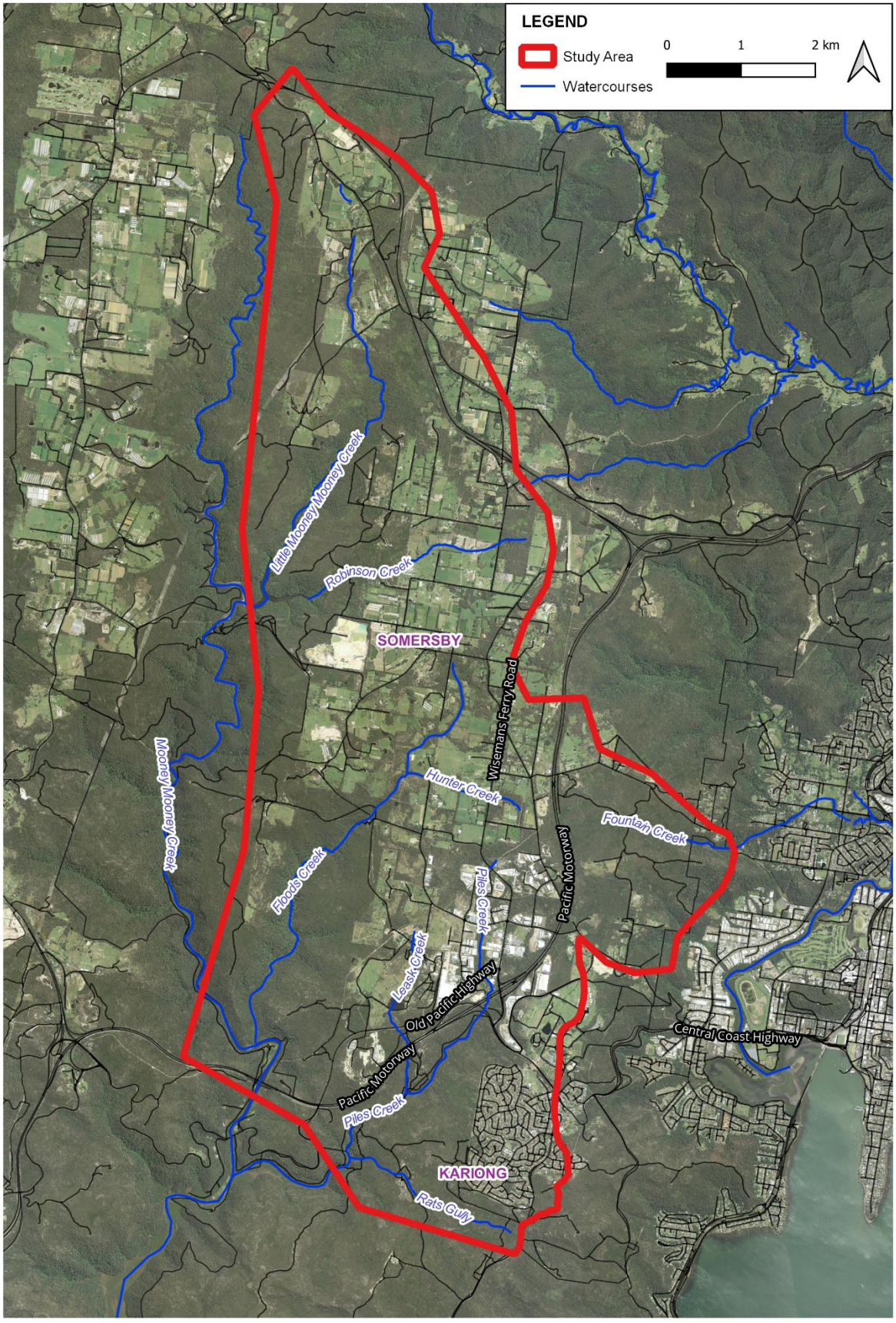
The community's responses to the questionnaire will help to identify flooding issues and develop a computer model that will be used to define flood behaviour over a range of flood magnitudes.

Should you wish to obtain further information on the study, please visit the project website at www.yourvoiceourcoast.com//somersbykariongfloodstudy. Otherwise, if you have any questions regarding this study, please contact:

- Daniel O'Brien from Central Coast Council on 0429 292 274, or
- Joshua Eggleton from KBR on 02 8284 2082.

Yours faithfully

Peter Sheath
Section Manager
Bushfire and Flood Risk Management


LEGEND
Study Area
Watercourses
0
1
2 km
Little Mooney Mooney Creek
Robinson Creek
SOMERSBY
Wisemans Ferry Road
Mooney Mooney Creek
Hunter Creek
Fountain Creek
Floods Creek
Piles Creek
Pacific Motorway
Leasik Creek
Old Pacific Highway
Central Coast Highway
Pacific Motorway
Piles Creek
KARIONG
Rats Gully

# Somersby & Kariong Catchments Overland Flood Study
## COMMUNITY QUESTIONNAIRE

Community involvement is pivotal to successful floodplain management. This questionnaire is a voluntary means for the community to help inform the Somersby and Kariong Catchments Overland Flood Study.

If you are willing to provide a response, please complete and return the questionnaire by 22 September 2023. A digital copy of the questionnaire is available and can be completed online by visiting the following link: https://forms.office.com/r/ZpPb3ULDcL

**PROPERTY DETAILS**

Please provide your street and suburb details (this will help us understand where flooding problems have been experienced).

**House no.:** _____ **or Lot no.:** _____ **Street:** _____

**Suburb:** _____ **Postcode:** _____

Providing full contact details is optional, but useful so we can contact you for more information if required. If you choose to provide full contact details, this information will remain confidential at all times and will not be published.

Name / Business: _____

Phone number: _____

Email: _____

Please indicate if and how you would like us to contact you for more information or to provide you with study updates

☐ Yes – telephone/ email/ mail (circle your preferred method of contact) ☐ No

***QUESTION 1***

**What type of development is on the property?**

- ☐ Residential
- ☐ Commercial
- ☐ Industrial
- ☐ Rural
- ☐ Other (please specify): _____

***QUESTION 2***

**What is the occupier status of this property?**

- ☐ Owner occupied
- ☐ Rental
- ☐ Business
- ☐ Vacant
- ☐ Other (please specify): _____

***QUESTION 3***

**How long have you lived, worked or owned property in this area*? At the address specified above***

- ☐ Less than 1 year
- ☐ 1 to 5 years
- ☐ 5 to 10 years

***QUESTION 4***

**How long have you lived, worked or owned property in this area*? In the general area***

- ☐ Less than 1 year
- ☐ 1 to 5 years
- ☐ 5 to 10 years

| | |
|---|---|
| ☐ 10 to 20 years<br>☐ Greater than 20 years | ☐ 10 to 20 years<br>☐ Greater than 20 years |

***QUESTION 5***

**Have you ever been affected by flooding?** ☐ Yes ☐ No (please go to Q10)

***QUESTION 6***

**Which of the following best describes the source of flooding? (you can select more than one)**

- ☐ Floodwater rising from a local creek/waterway
- ☐ Waters originating from local roads
- ☐ Overflow from local basins
- ☐ Water pooling in a low point
- ☐ Overflow from blocked drains
- ☐ Other (Please Specify): _____

_____

_____

***QUESTION 7***

**Was your property damaged by floodwaters?**

☐ Yes - please provide details below ☐ No

_____

_____

***QUESTION 8***

**Do you have any photos or videos of the flooding you have experienced?**

☐ Yes ☐ No

☐ Please tick this box if you would be willing to provide a copy to assist the study.

***QUESTION 9***

**Can you provide additional information on these past floods? Please attach additional pages if needed.**

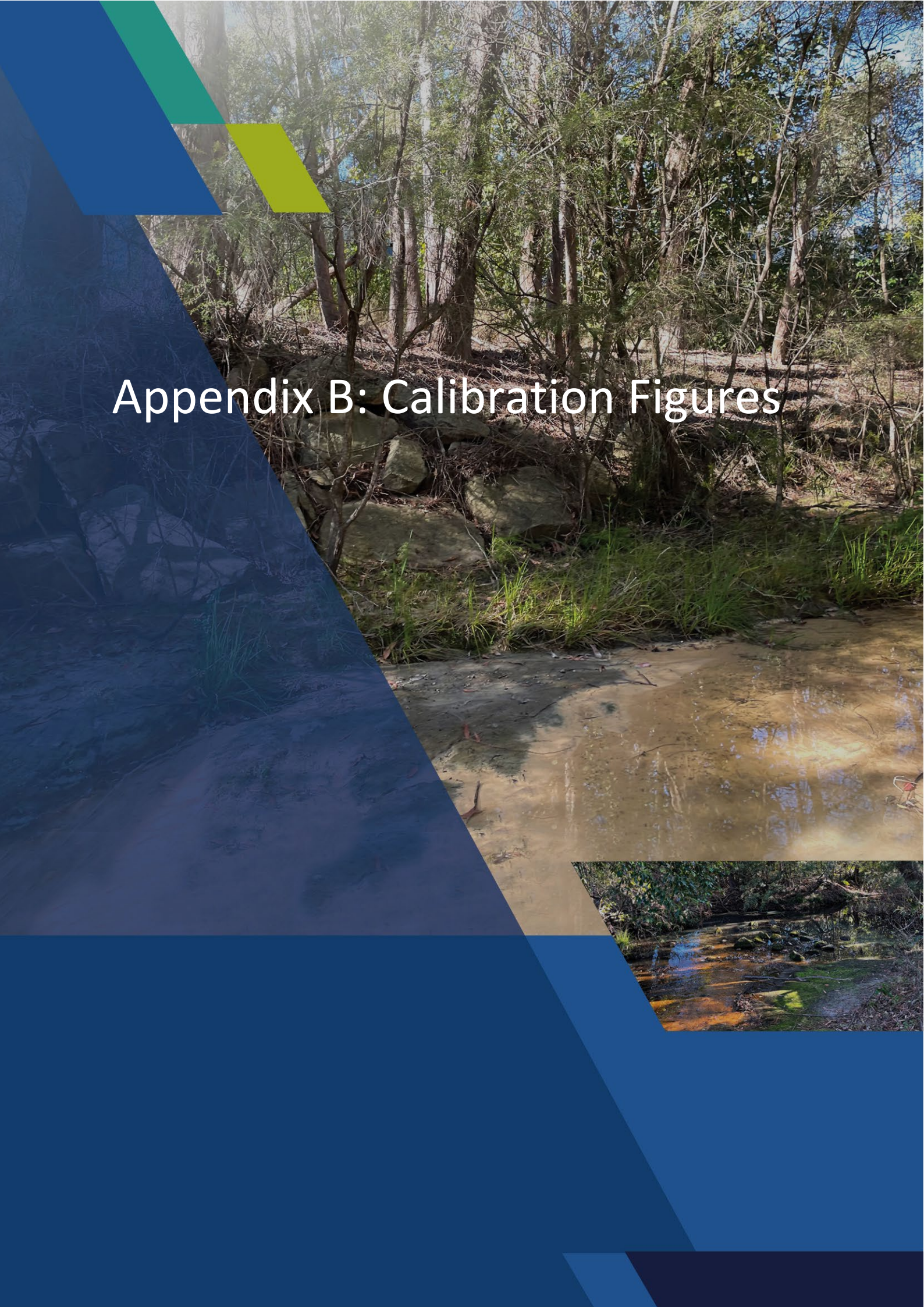
| | **November 2011** | **June 2007** | **February 2021** | **March 2022** | **Other** |
|---|---|---|---|---|---|
| **Where was the flooding located? *i.e. House, Road gutter, back yard (you can be as specific as you would like i.e. name the road where flooding occurs)*** | | | | | |
| **What depth of flooding was experienced (if any)? *i.e. None, 10cm, 50cm*** | | | | | |
| **How certain in the flood depth are you? *i.e. "Give or take 20cm", "Thereabouts", "Certain"*** | | | | | |
| **Is there a flood mark or photography from the flooding? *e.g. Photo of flood mark*** | | | | | |

***QUESTION 10***

**Have you got any other comments, information or suggestions that may assist with the study? Please attach additional pages if needed.**

**Thank you for completing the questionnaire, your contribution is valued.**

# Appendix B: Calibration Figures



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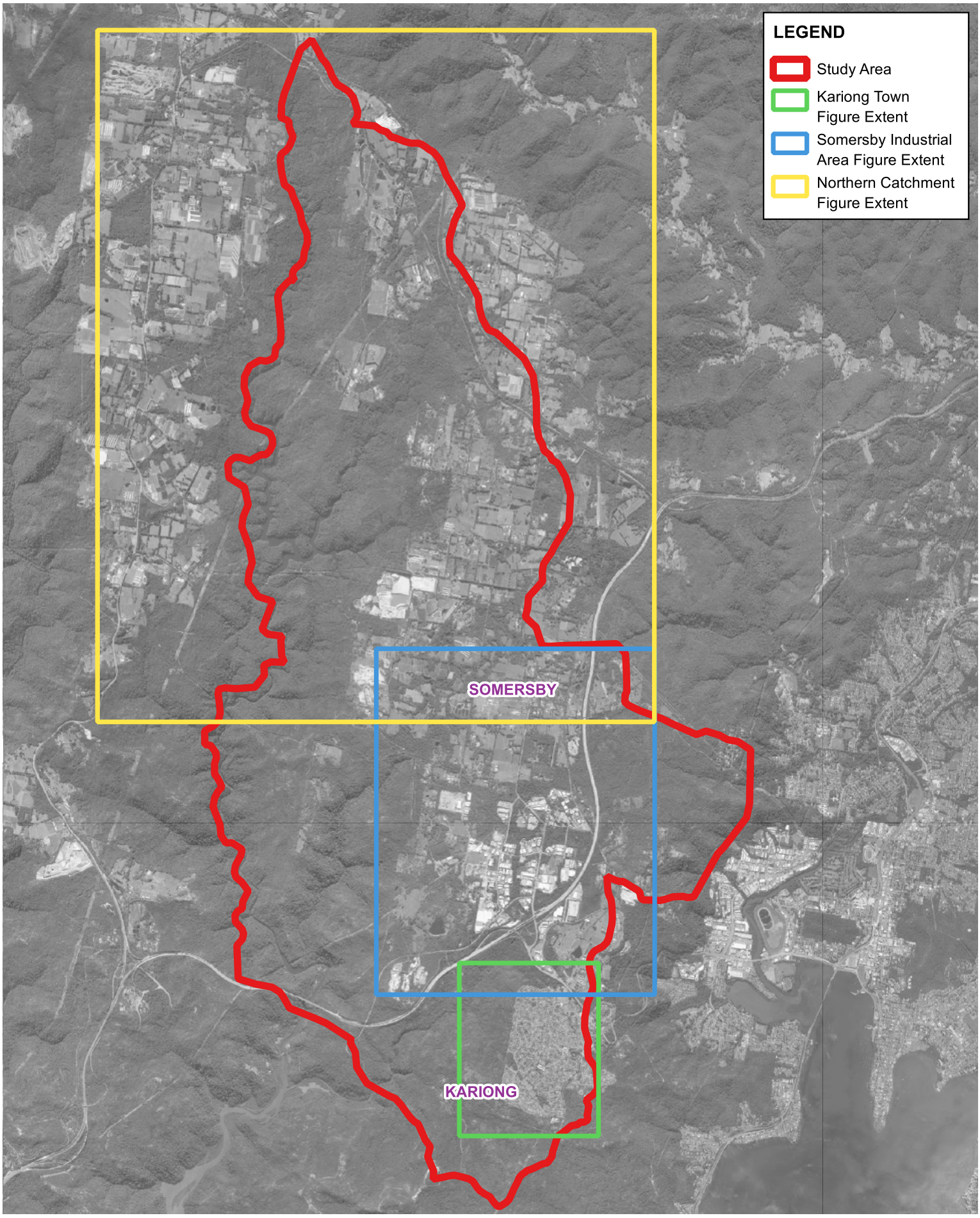


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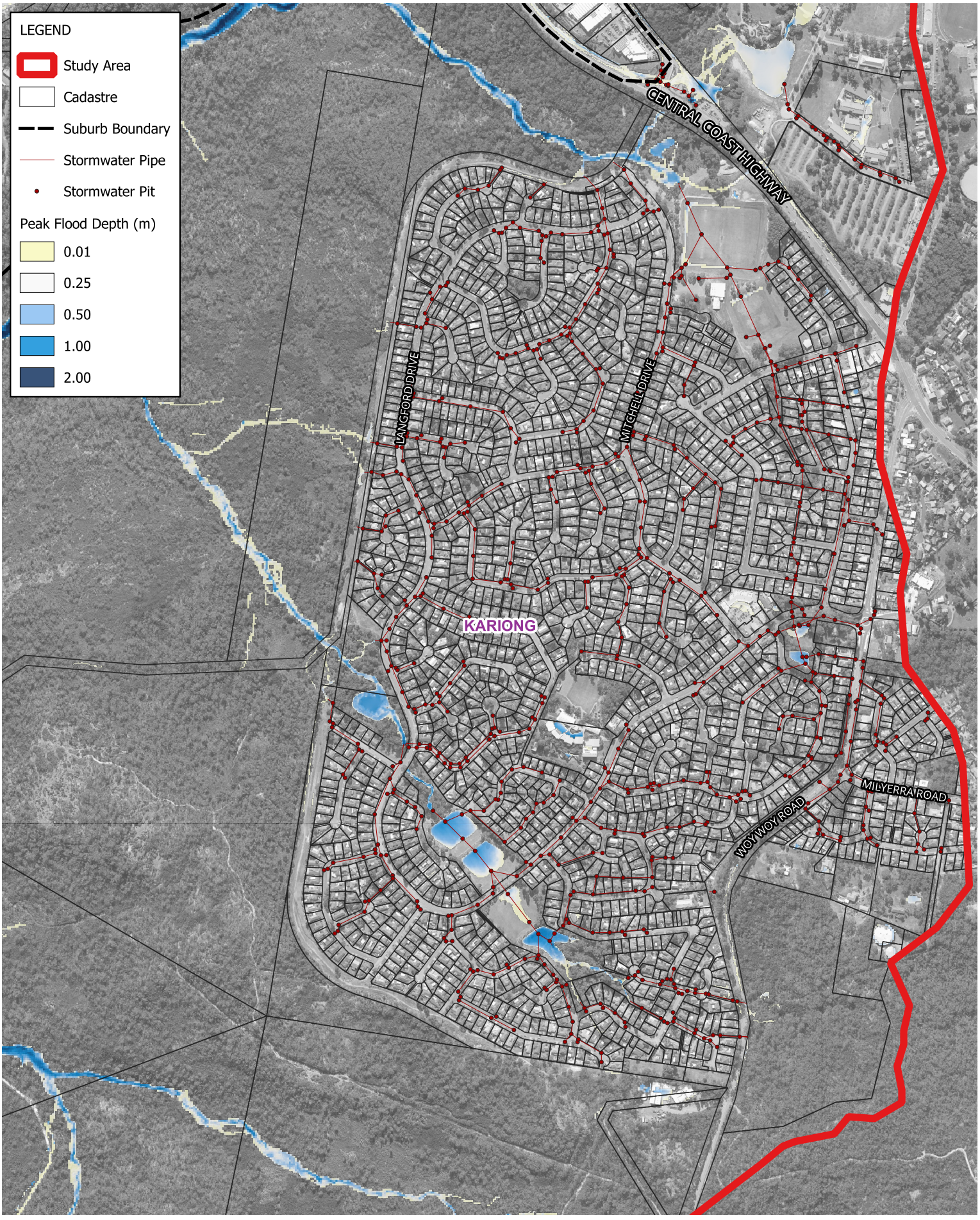


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# Peak Flood Depth - Kariong Town
# June 2007 Calibration Event Scenario

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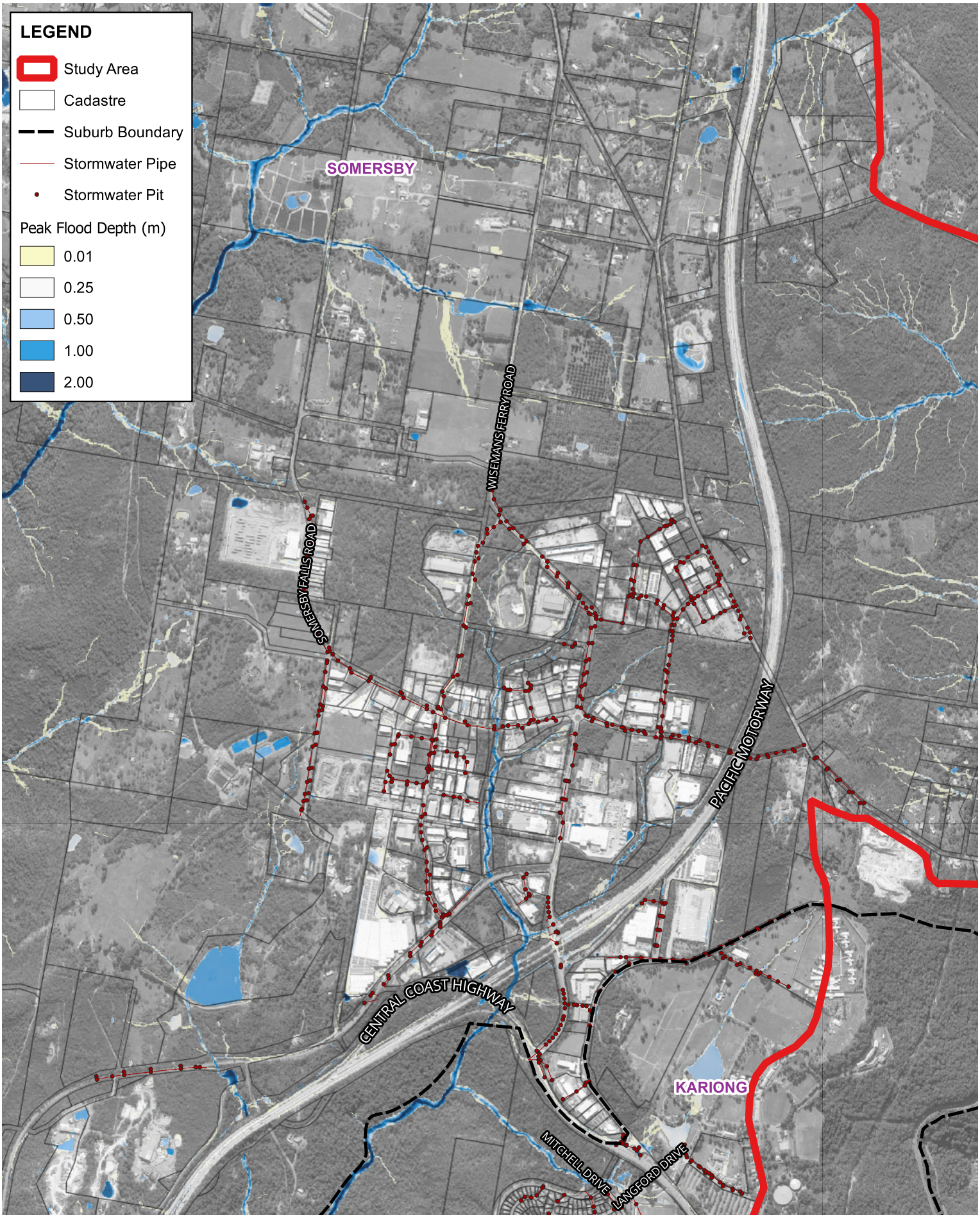


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# Peak Flood Depth - Somersby Industrial Area
# June 2007 Calibration Event Scenario

Figure: B-2

Rev: 0

Scale at A4 1:20000

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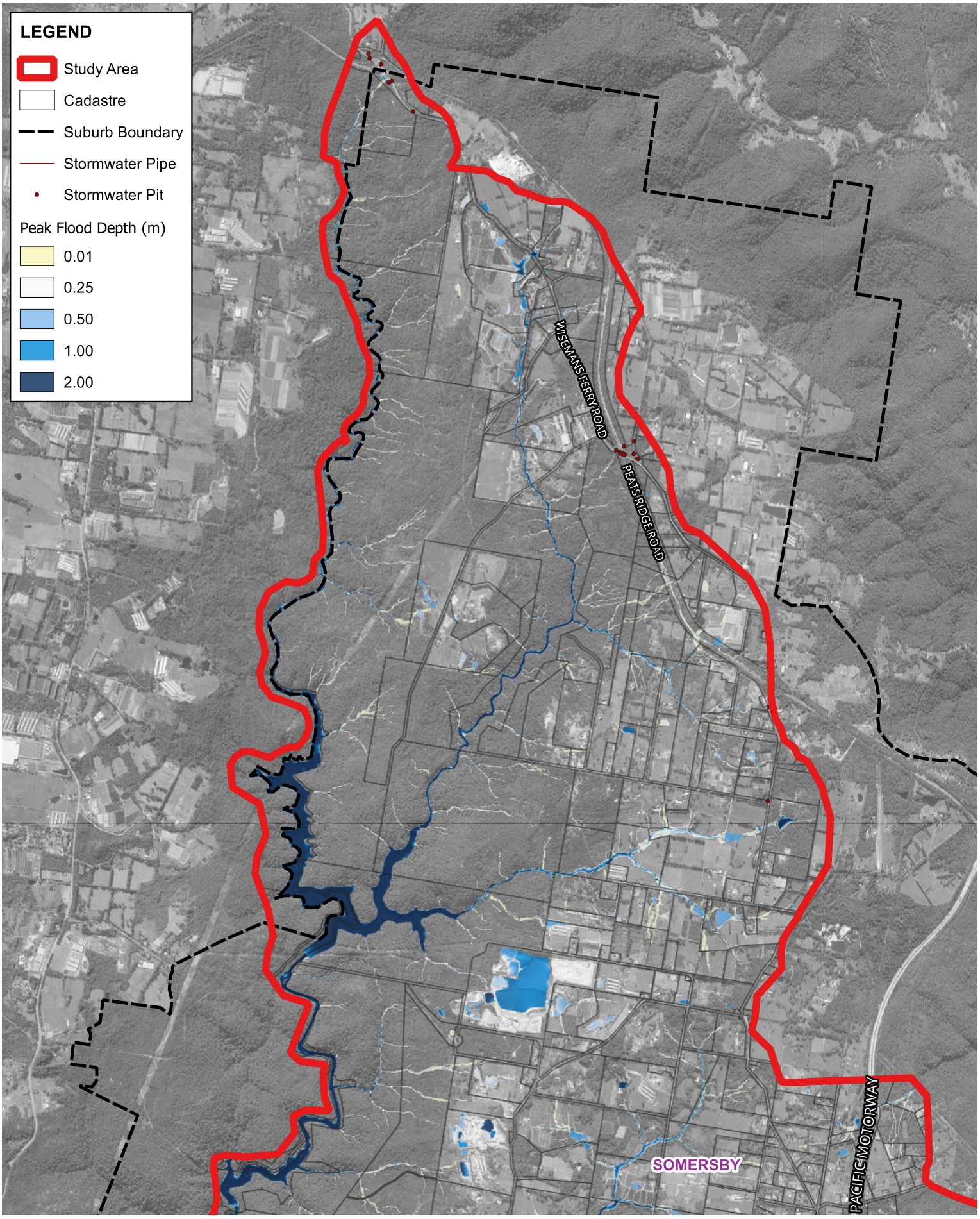


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# Peak Flood Depth - Northern Catchment
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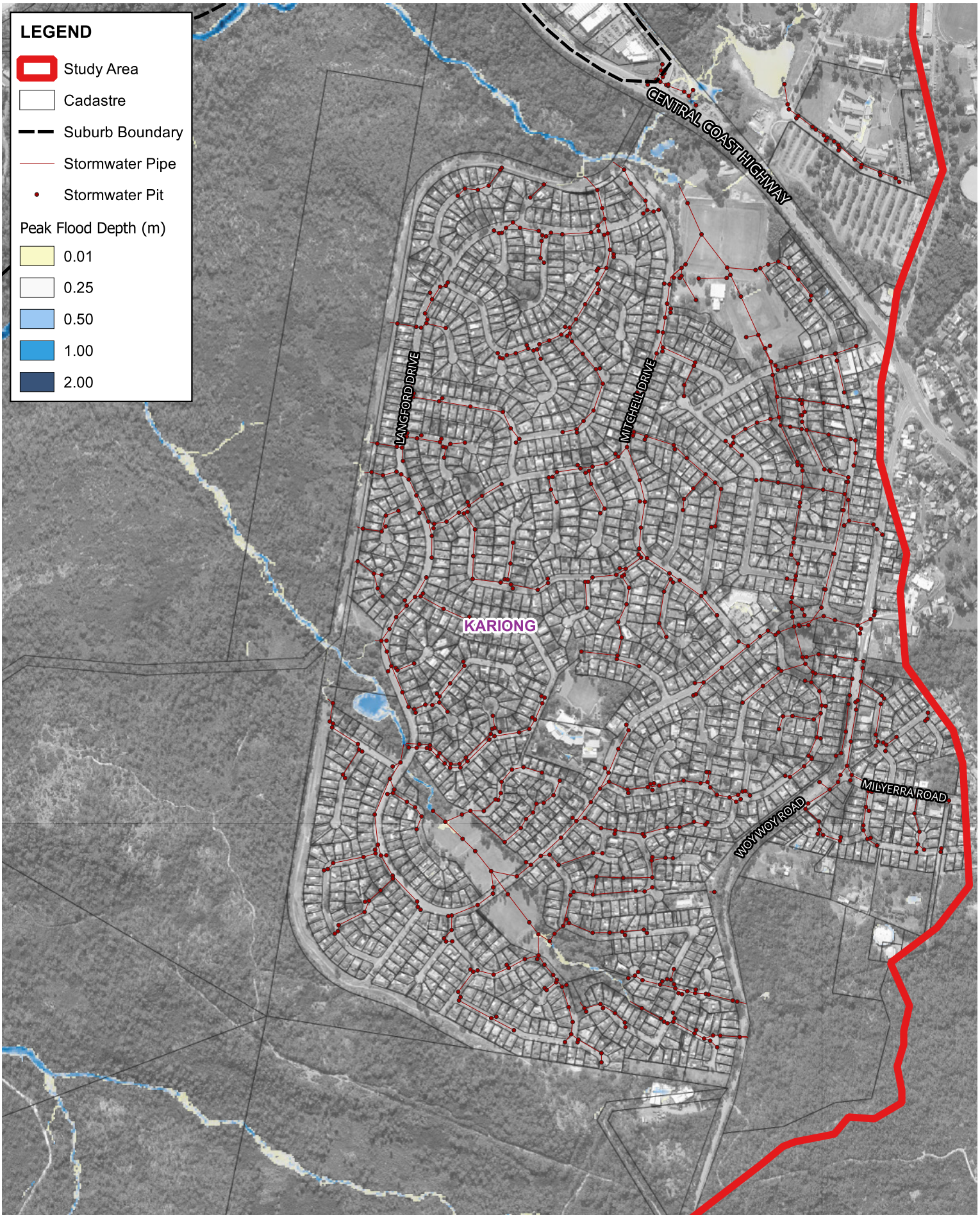


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# Peak Flood Depth - Kariong Town
# November 2011 Calibration Event Scenario

Figure: B-4

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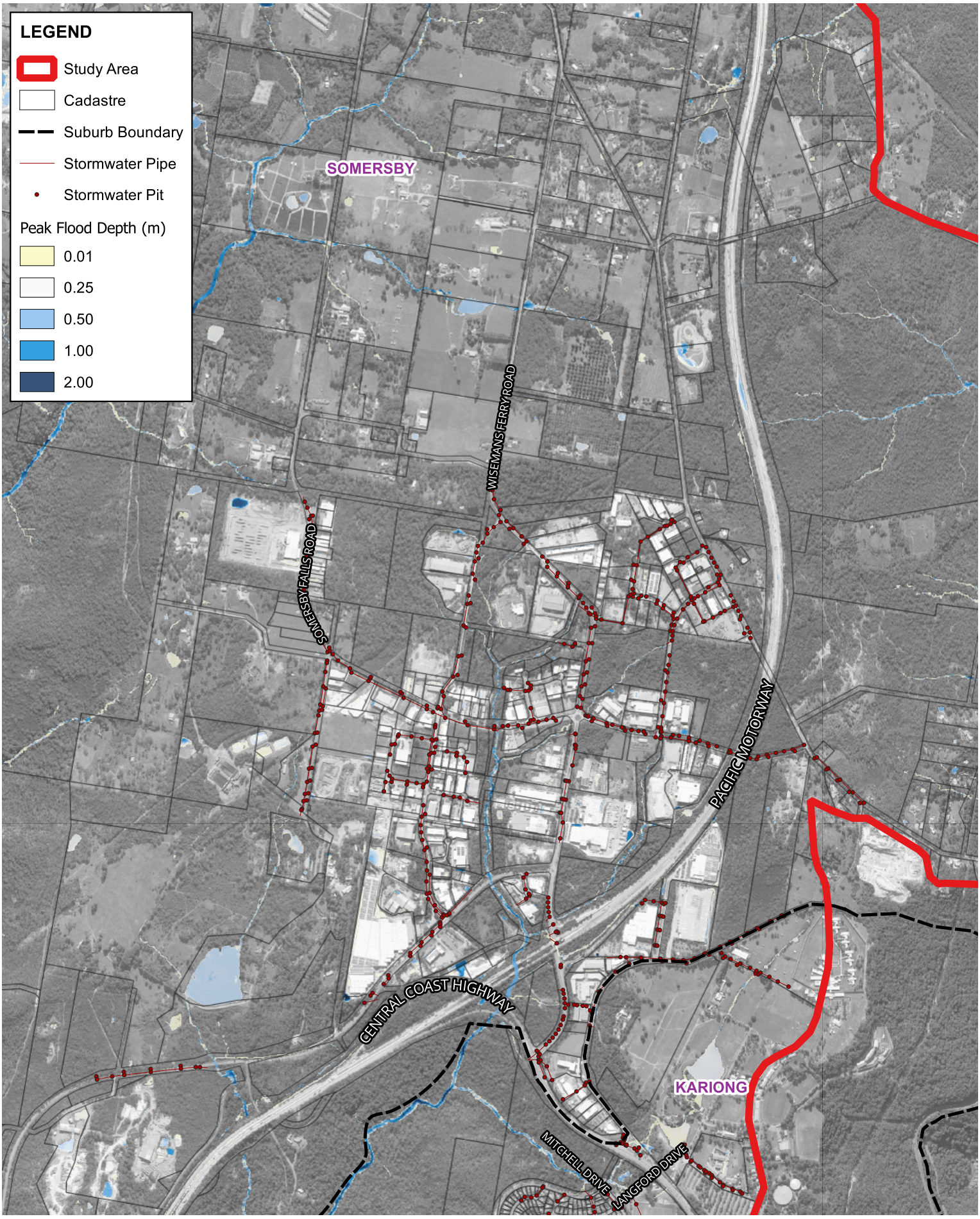


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# Peak Flood Depth - Somersby Industrial Area
# November 2011 Calibration Event Scenario

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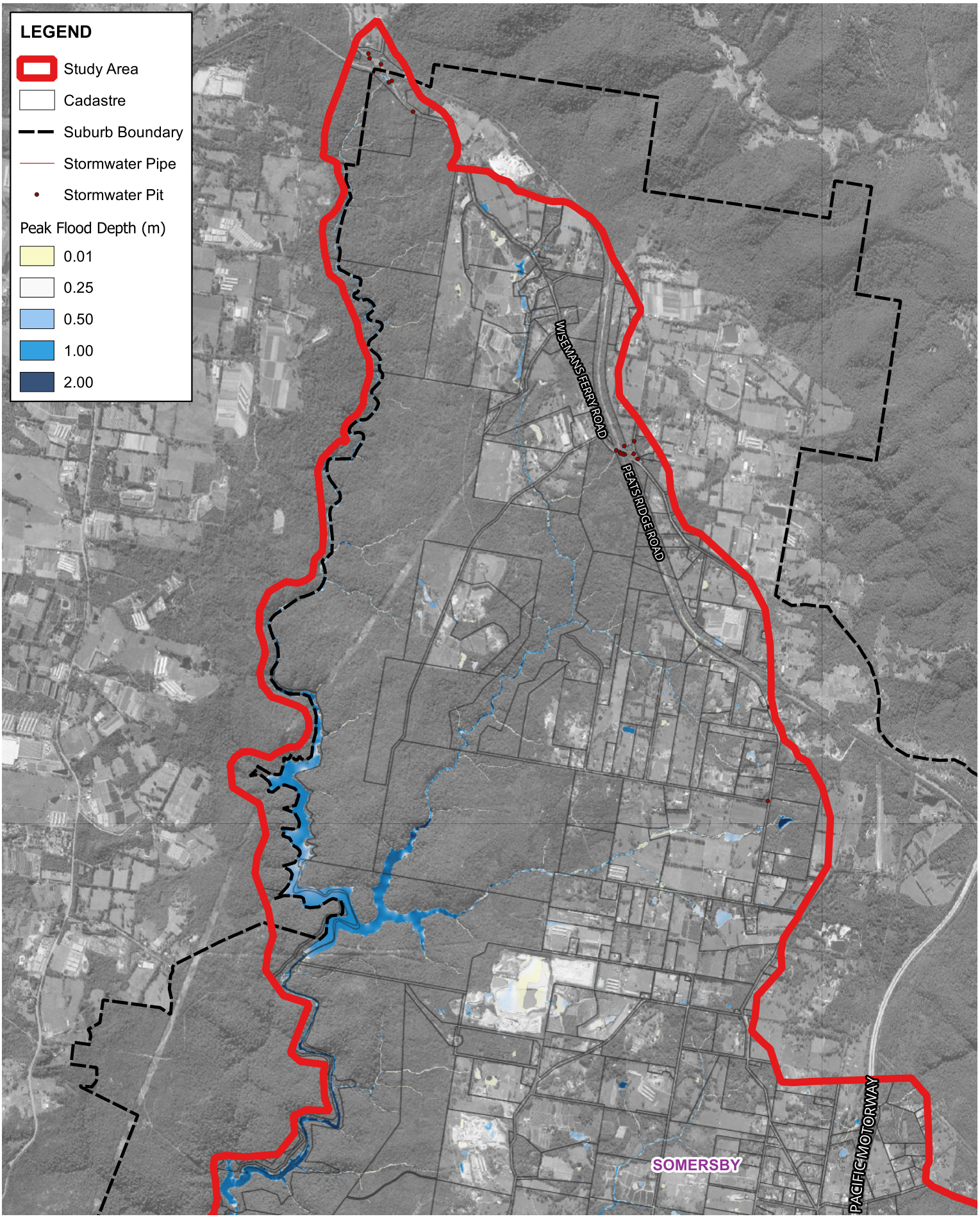


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# Peak Flood Depth - Northern Catchment November 2011 Calibration Event Scenario

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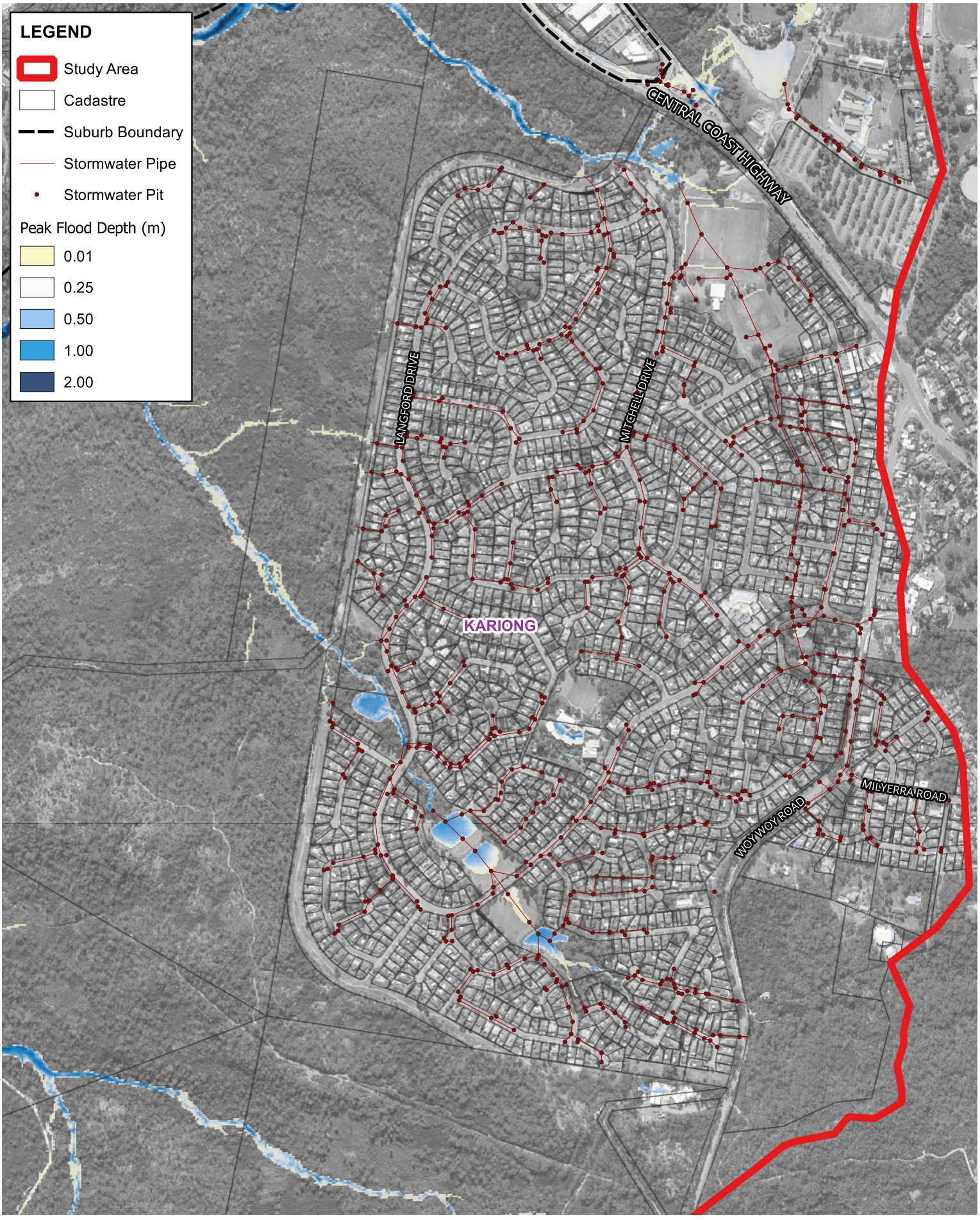


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# Peak Flood Depth - Kariong Town
# March 2021 Calibration Event Scenario

Figure: B-7

Rev: 0

Scale at A4 1:10000

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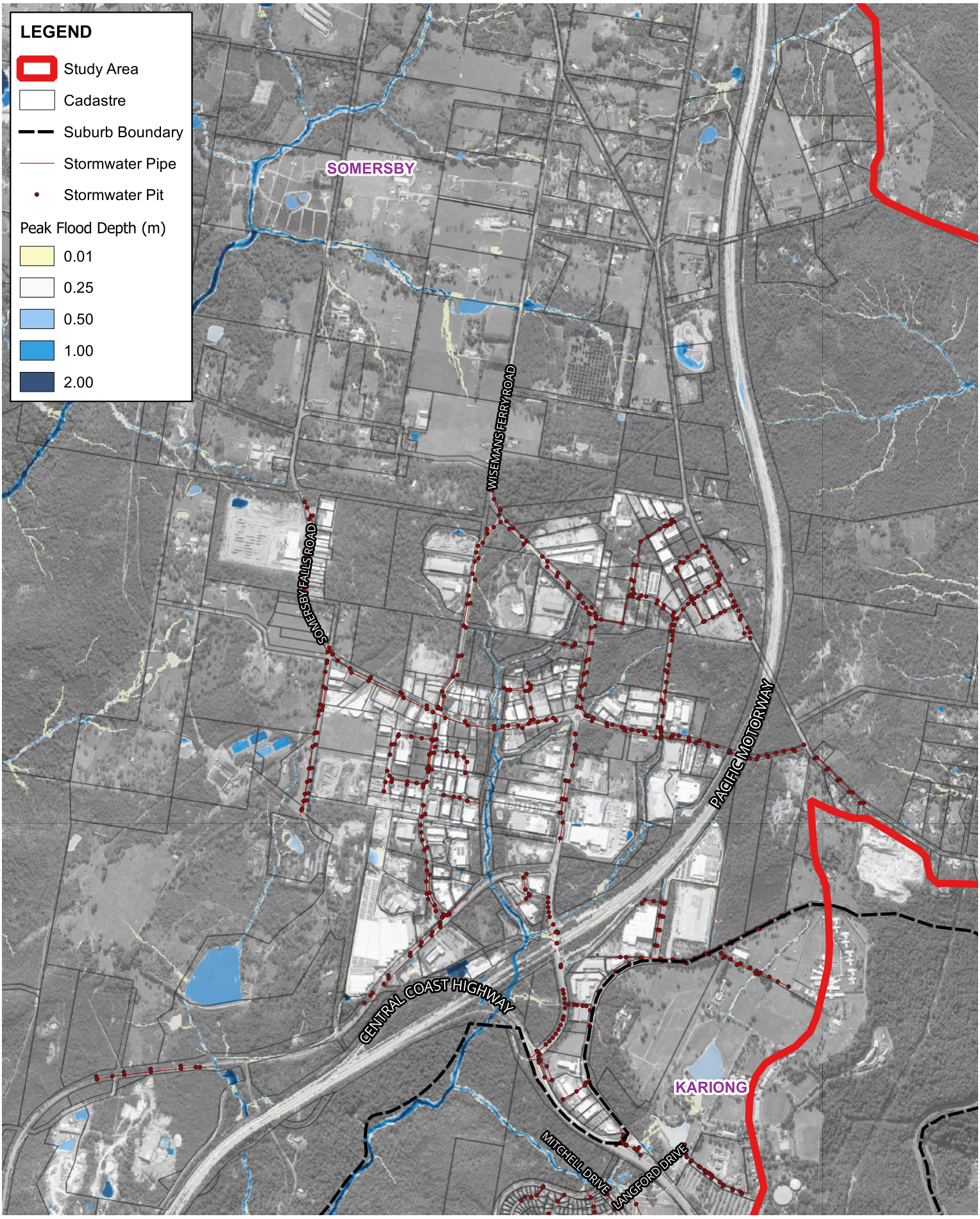


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# Peak Flood Depth - Somersby Industrial Area
# March 2021 Calibration Event Scenario

Figure: B-8

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Scale at A4 1:20000

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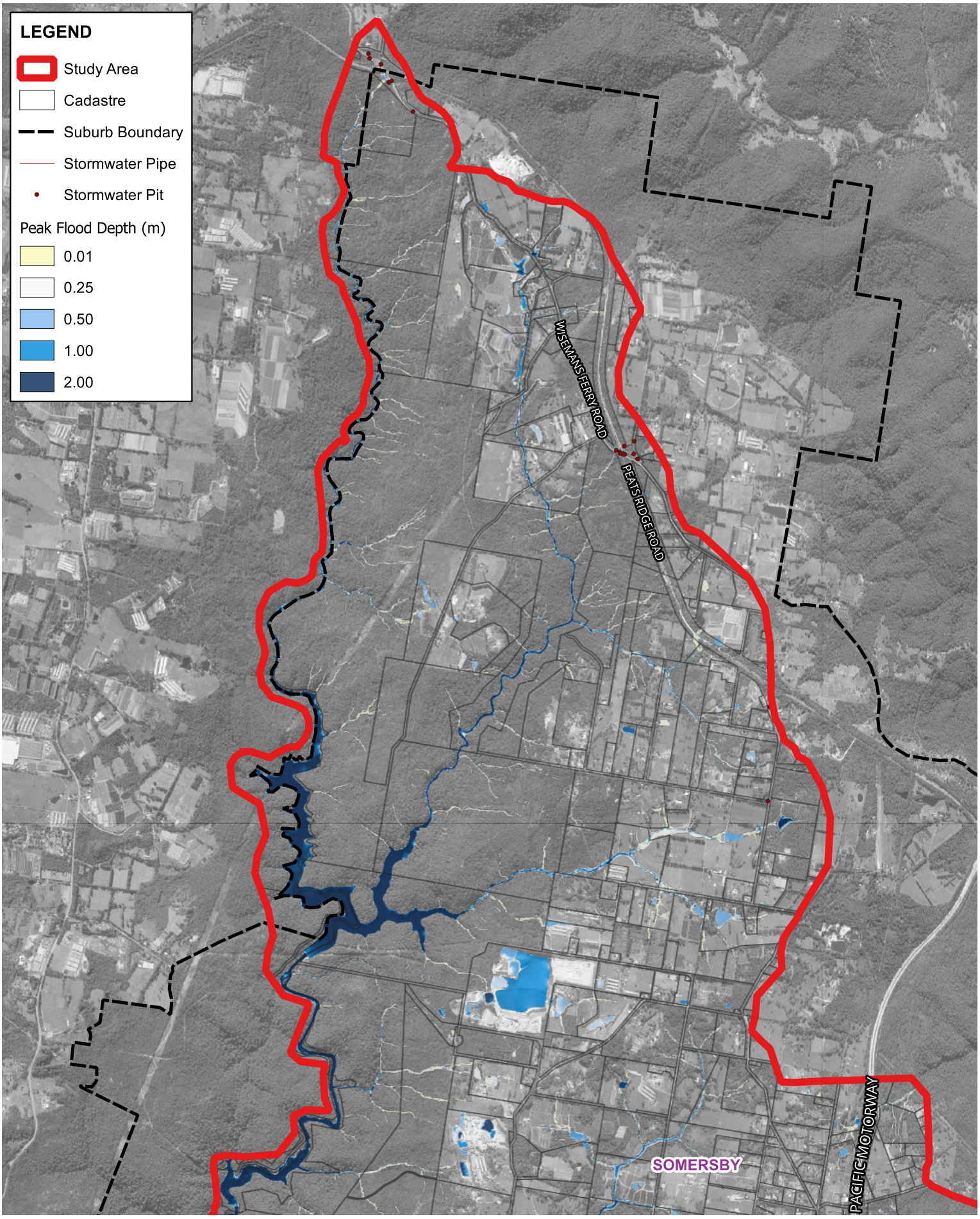


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# Peak Flood Depth - Northern Catchment March 2021 Calibration Event Scenario

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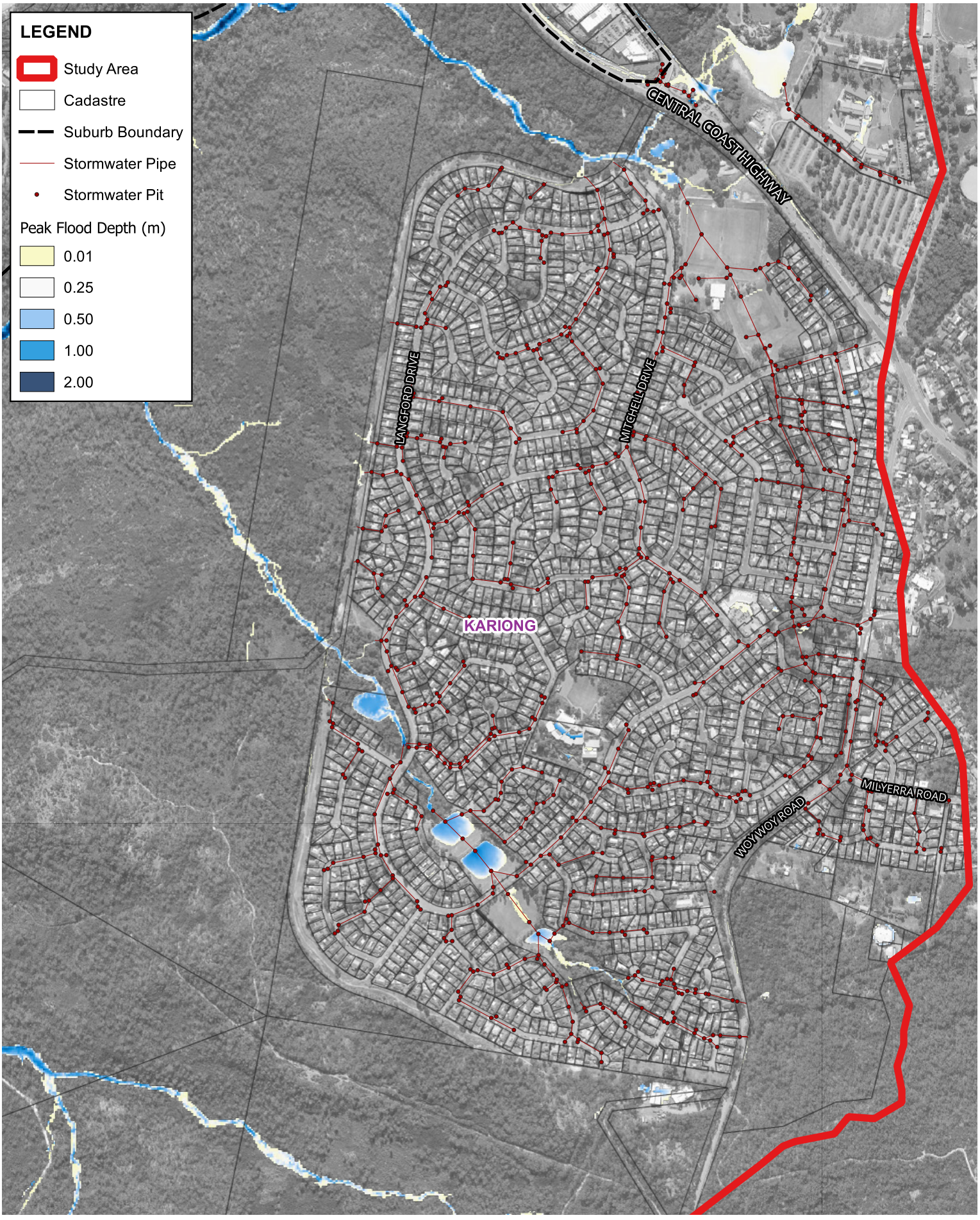


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# Peak Flood Depth - Kariong Town
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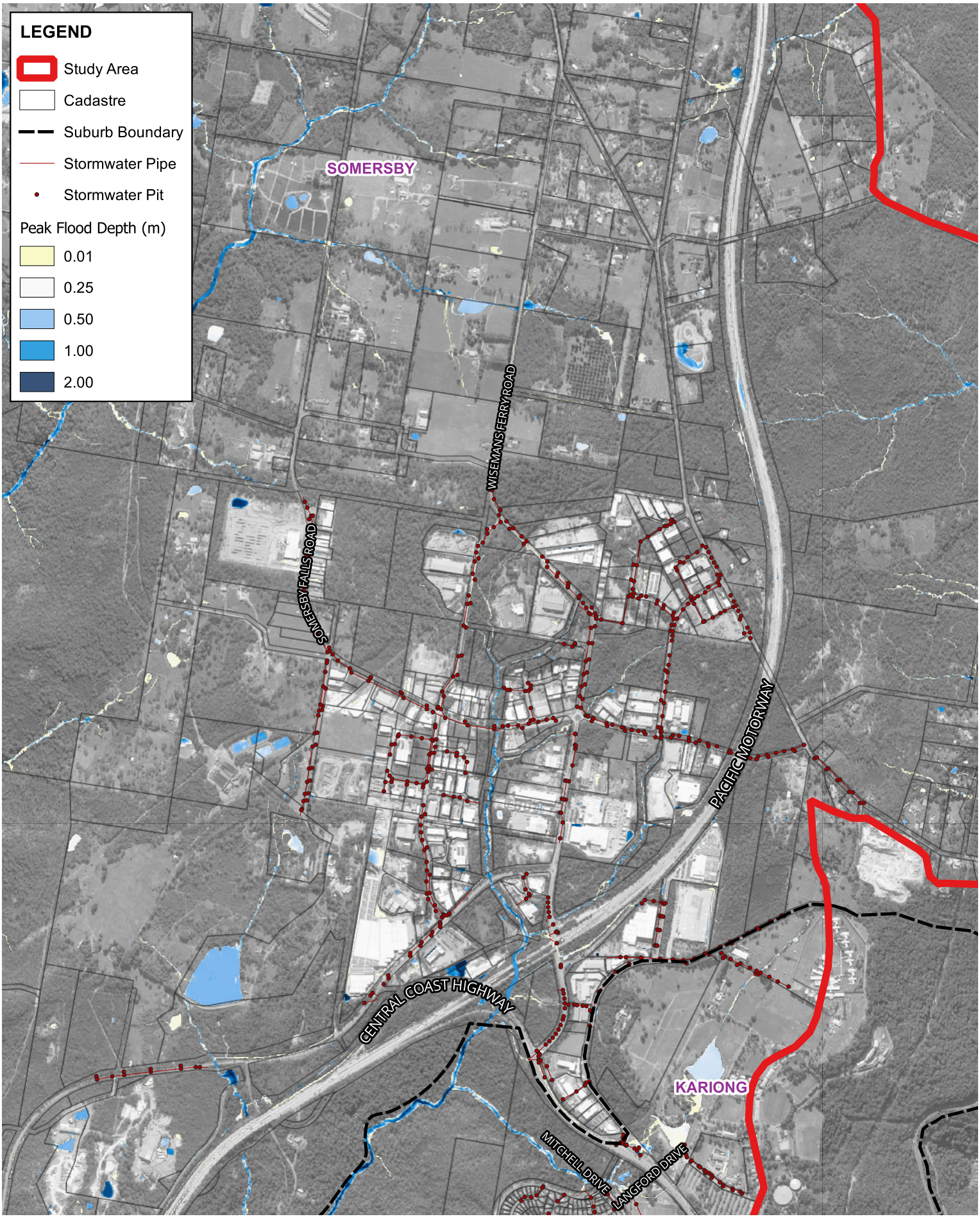


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# March 2022 Calibration Event Scenario

Figure: B-11

Rev: 0

Scale at A4 1:20000

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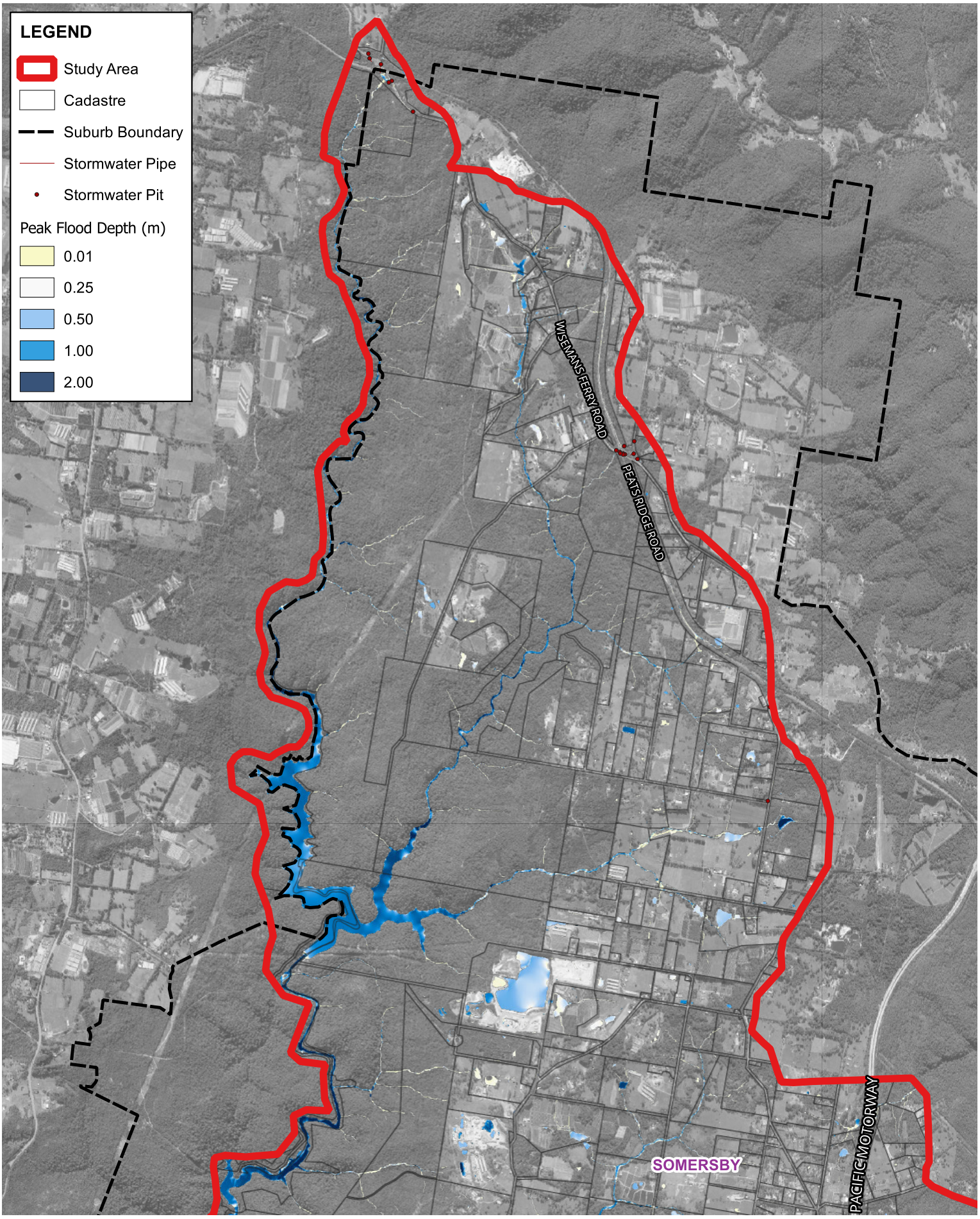
File: \\perfile001\data$\Water_Resources\Projects\SEW353_Kariong_Somersby_Flood_Study\G_GIS\Workspaces\Stage_Final_Draft\MS_Figures.qgz

Scale:

0 0.1 0.2 0.3 0.4 0.5 km

1:20,000

KBR




Title:

# Peak Flood Depth - Northern Catchment March 2022 Calibration Event Scenario

Figure: B-12

Rev: 0

Scale at A4 1:40000

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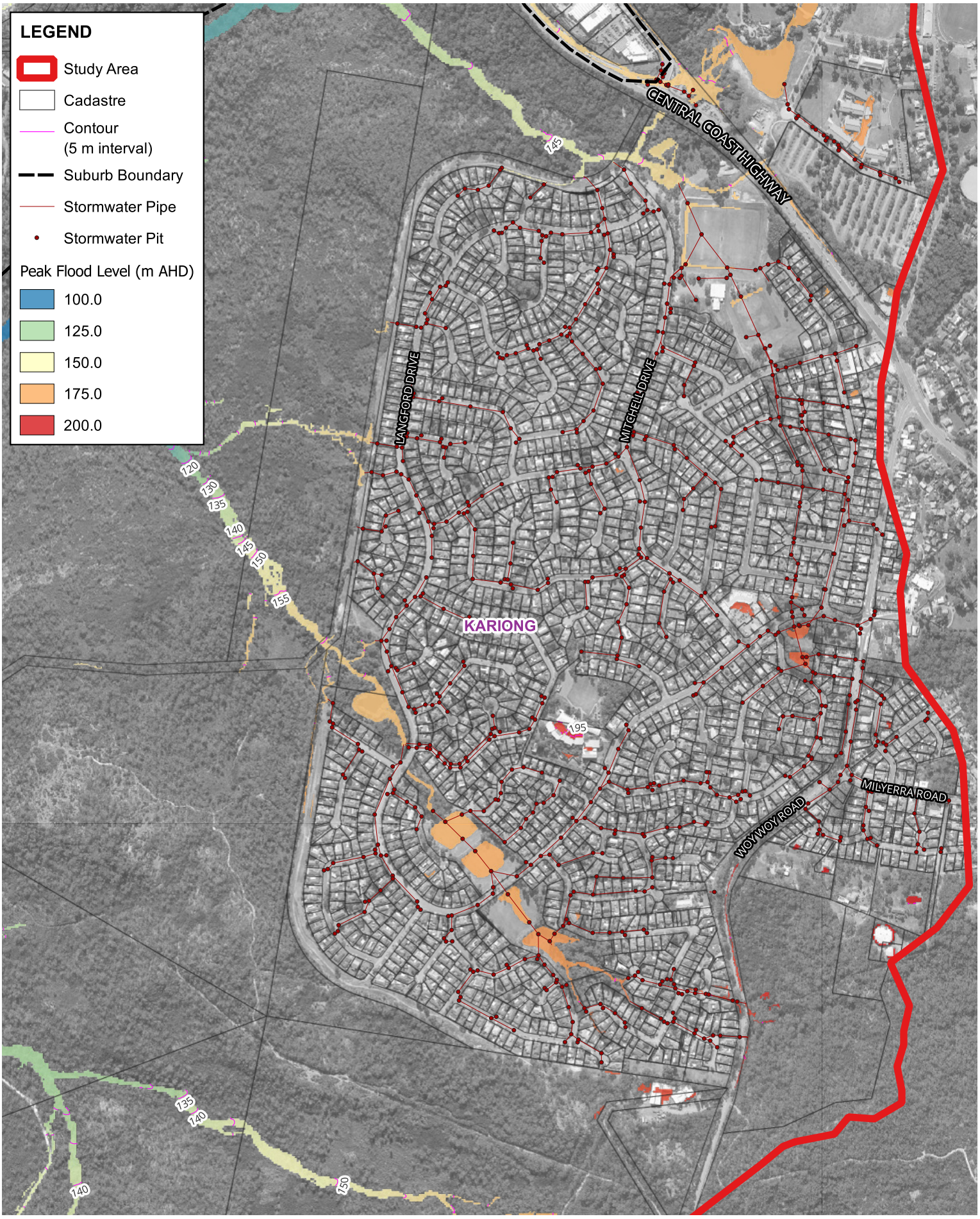
File: \\perfile001\data$\Water_Resources\Projects\SEW353_Kariong_Somersby_Flood_Study\G_GIS\Workspaces\Stage_Final_Draft\MS_Figures.qgz

Scale:

0 0.3 0.6 0.9 1.2 1.5 km

1:40,000

KBR




Title:

# Peak Flood Level - Kariong Town
# June 2007 Calibration Event Scenario

Figure: B-13

Rev: 0

Scale at A4 1:10000
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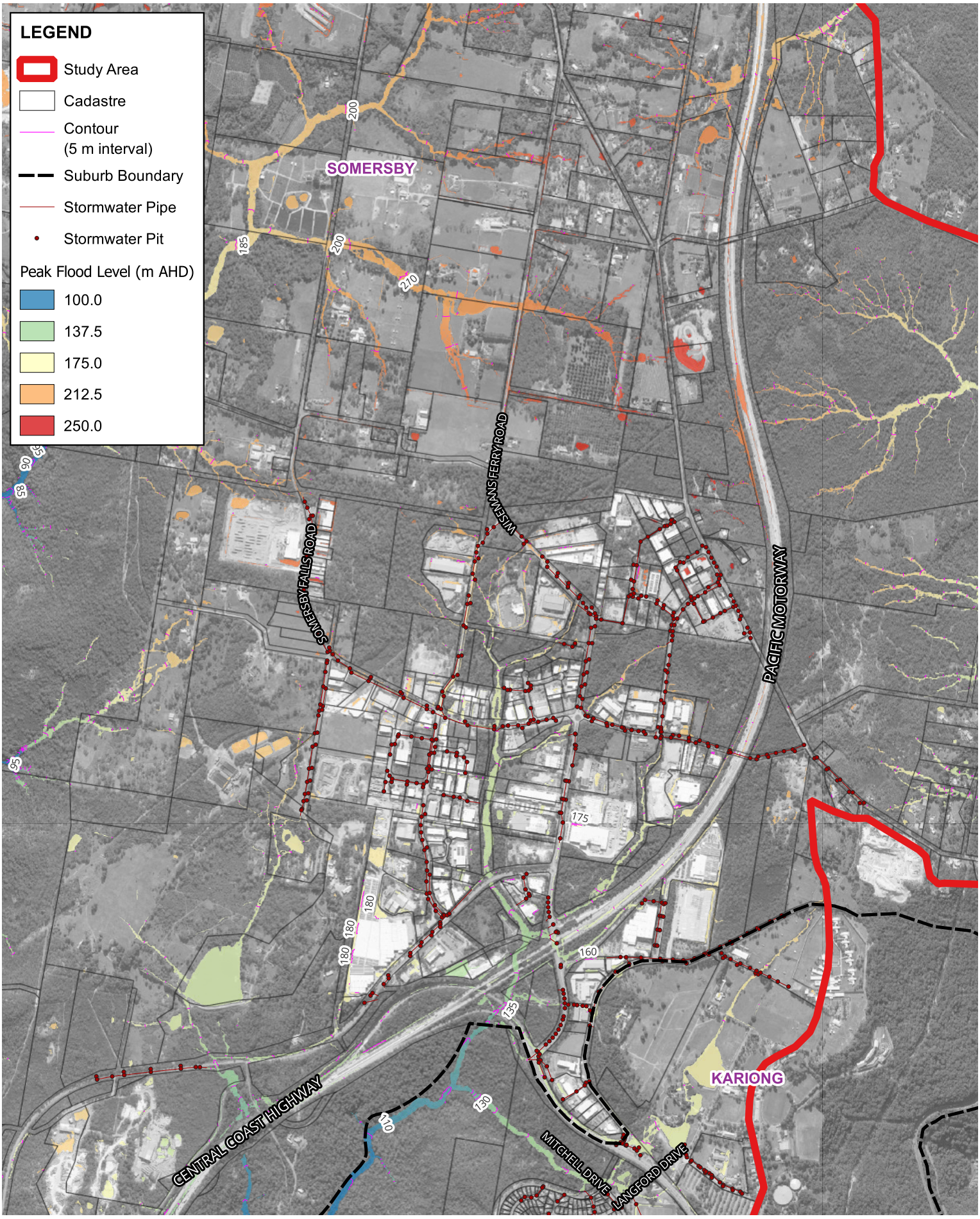
File: \\perfile001\data$\Water_Resources\Projects\SEW353_Kariong_Somersby_Flood_Study\G_GIS\Workspaces\Stage_Final_Draft\MS_Figures.qgz

Scale:

0 0.08 0.16 0.24 0.32 0.4 km

1:10,000

KBR




Title:

# Peak Flood Level - Somersby Industrial Area
# June 2007 Calibration Event Scenario

Figure: B-14

Rev: 0

Scale at A4 1:20000
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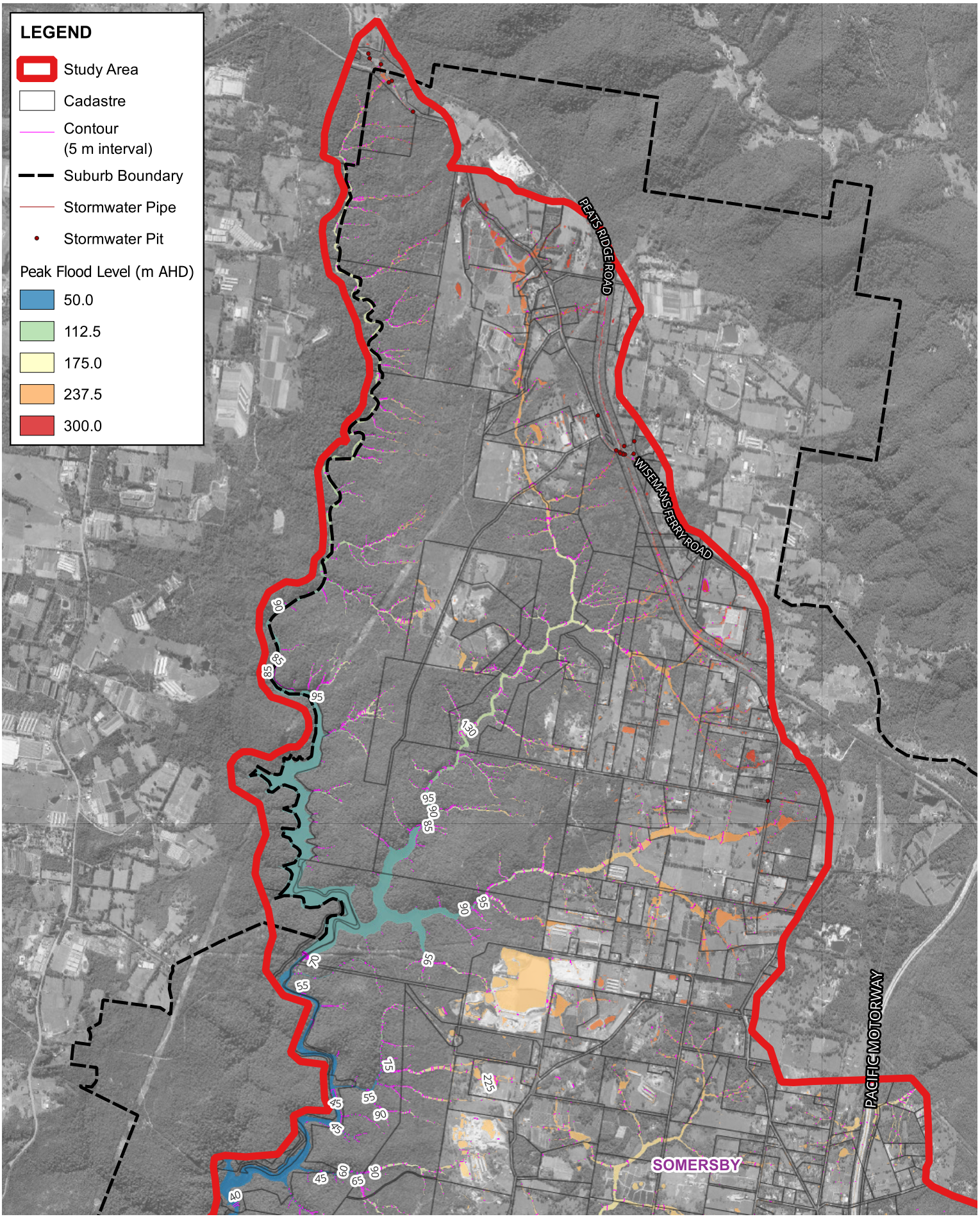
File: \\perfile001\data$\Water_Resources\Projects\SEW353_Kariong_Somersby_Flood_Study\G_GIS\Workspaces\Stage_Final_Draft\MS_Figures.qgz

Scale:

0 0.1 0.2 0.3 0.4 0.5 km

1:20,000

KBR




# Peak Flood Level - Northern Catchment
# June 2007 Calibration Event Scenario

Figure: B-15

Rev: 0

Scale at A4 1:40000
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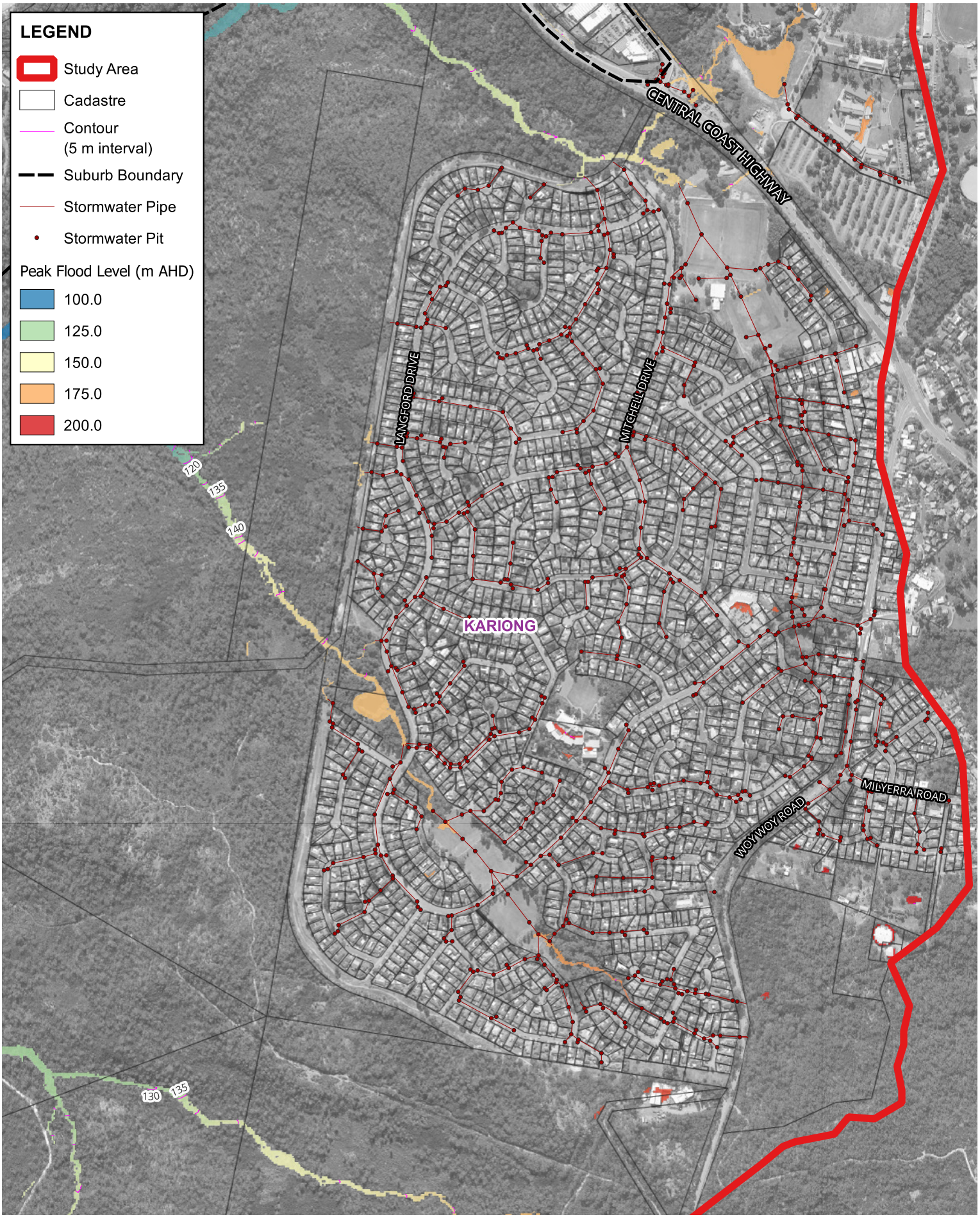
File: \\perfile001\data$\Water_Resources\Projects\SEW353_Kariong_Somersby_Flood_Study\G_GIS\Workspaces\Stage_Final_Draft\MS_Figures.qgz

Scale:

0 0.3 0.6 0.9 1.2 1.5 km

1:40,000




Title:

# Peak Flood Level - Kariong Town
# November 2011 Calibration Event Scenario

Figure: B-16

Rev: 0

Scale at A4 1:10000
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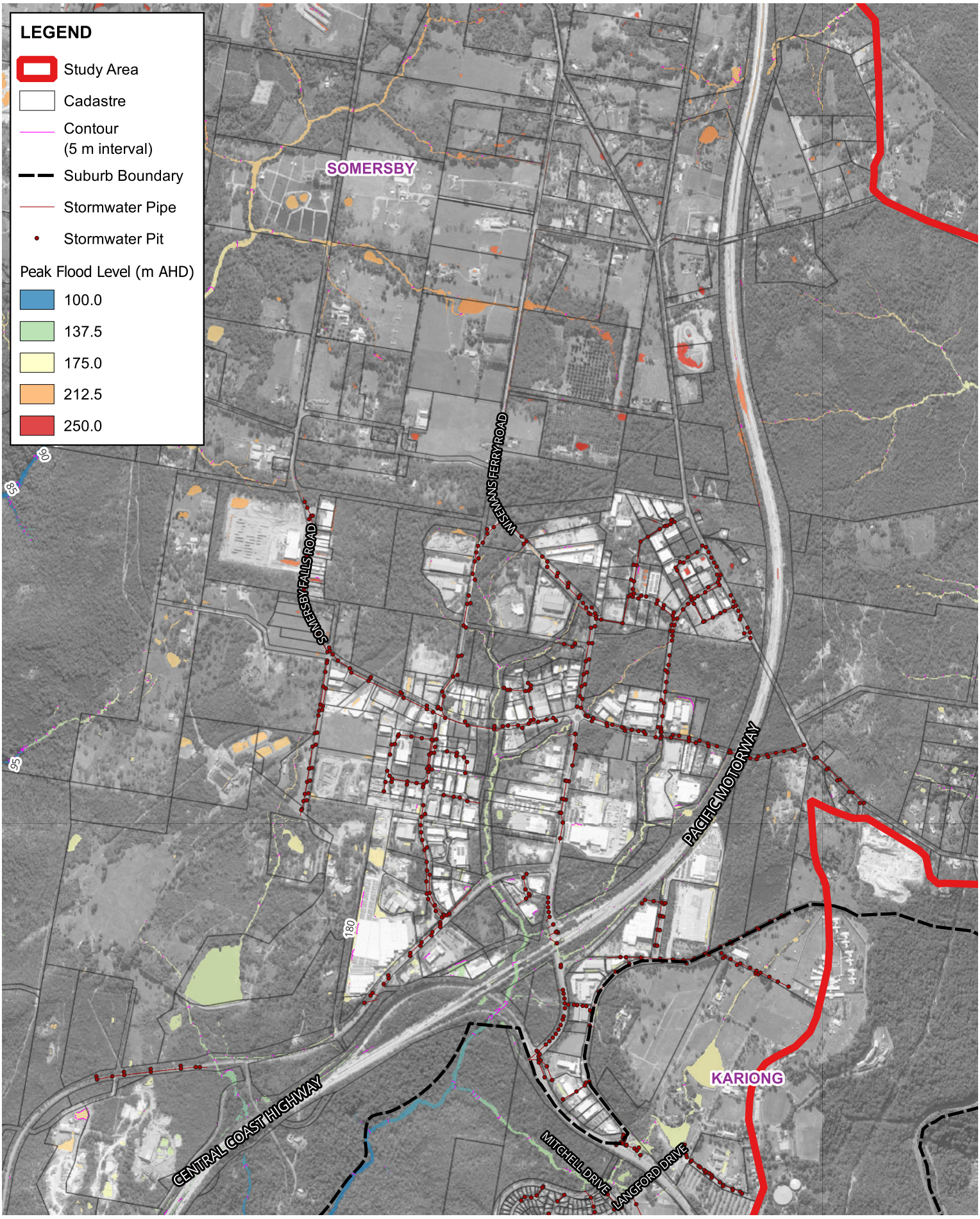
Scale:

0 0.08 0.16 0.24 0.32 0.4 km

1:10,000

KBR




Title:

# Peak Flood Level - Somersby Industrial Area
# November 2011 Calibration Event Scenario

Figure: B-17

Rev: 0

Scale at A4 1:20000
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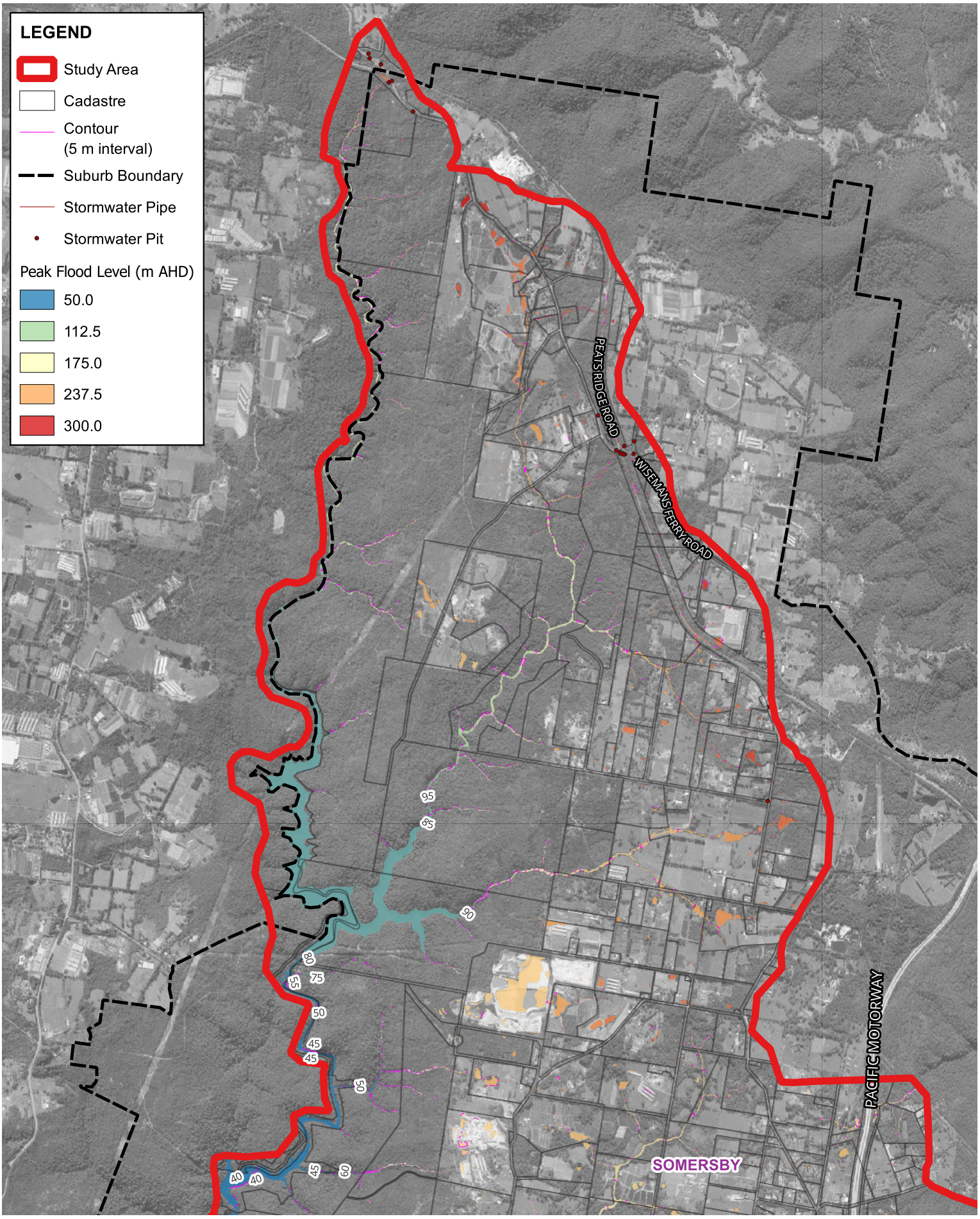
Scale:

0 0.1 0.2 0.3 0.4 0.5 km

1:20,000




Title:

# Peak Flood Level - Northern Catchment November 2011 Calibration Event Scenario

Figure: B-18

Rev: 0

Scale at A4 1:40000

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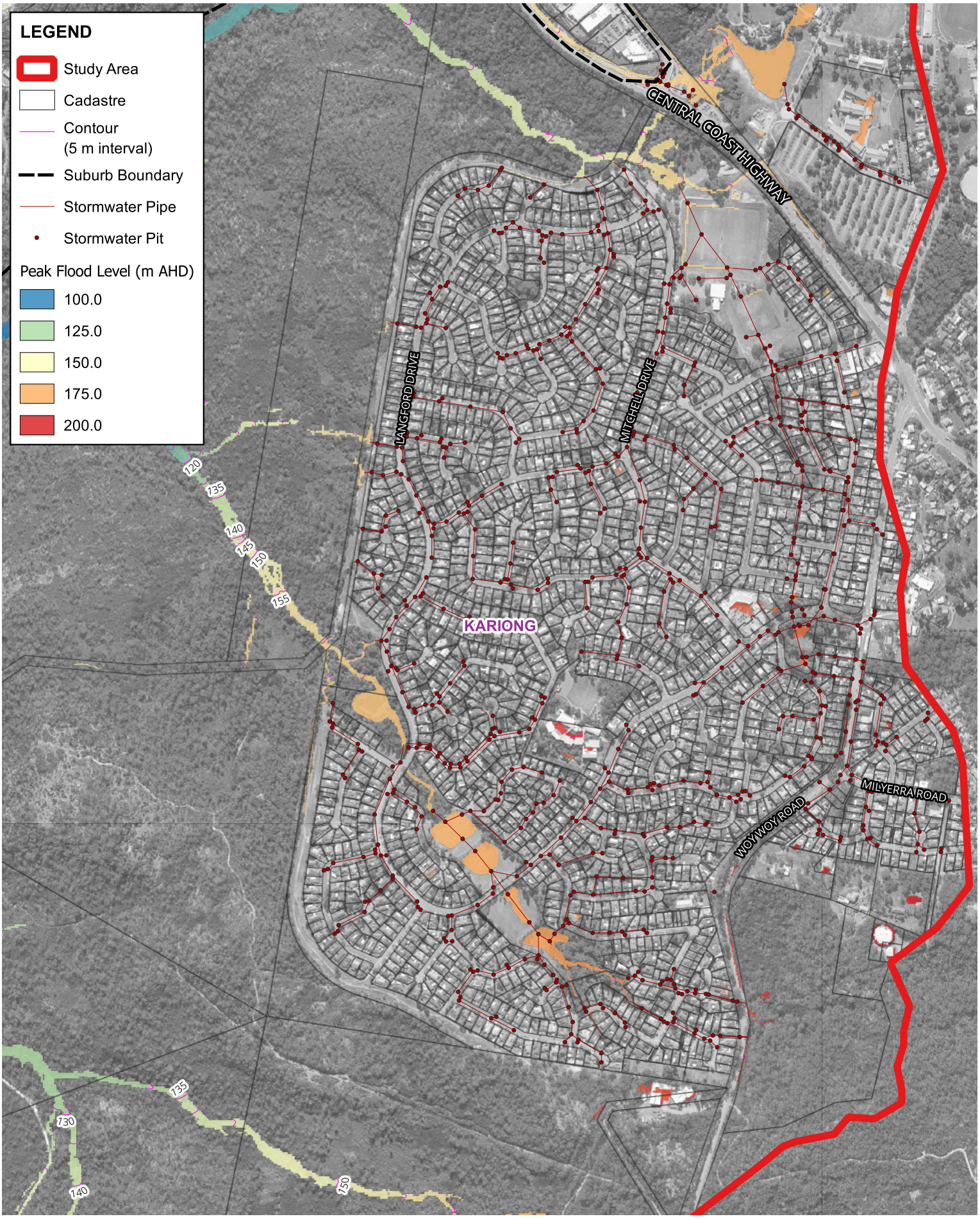
File: \\perfile001\data$\Water_Resources\Projects\SEW353_Kariong_Somersby_Flood_Study\G_GIS\Workspaces\Stage_Final_Draft\MS_Figures.qgz

Scale:

0 0.3 0.6 0.9 1.2 1.5 km

1:40,000

KBR




Title:

# Peak Flood Level - Kariong Town
# March 2021 Calibration Event Scenario

Figure: B-19

Rev: 0

Scale at A4 1:10000

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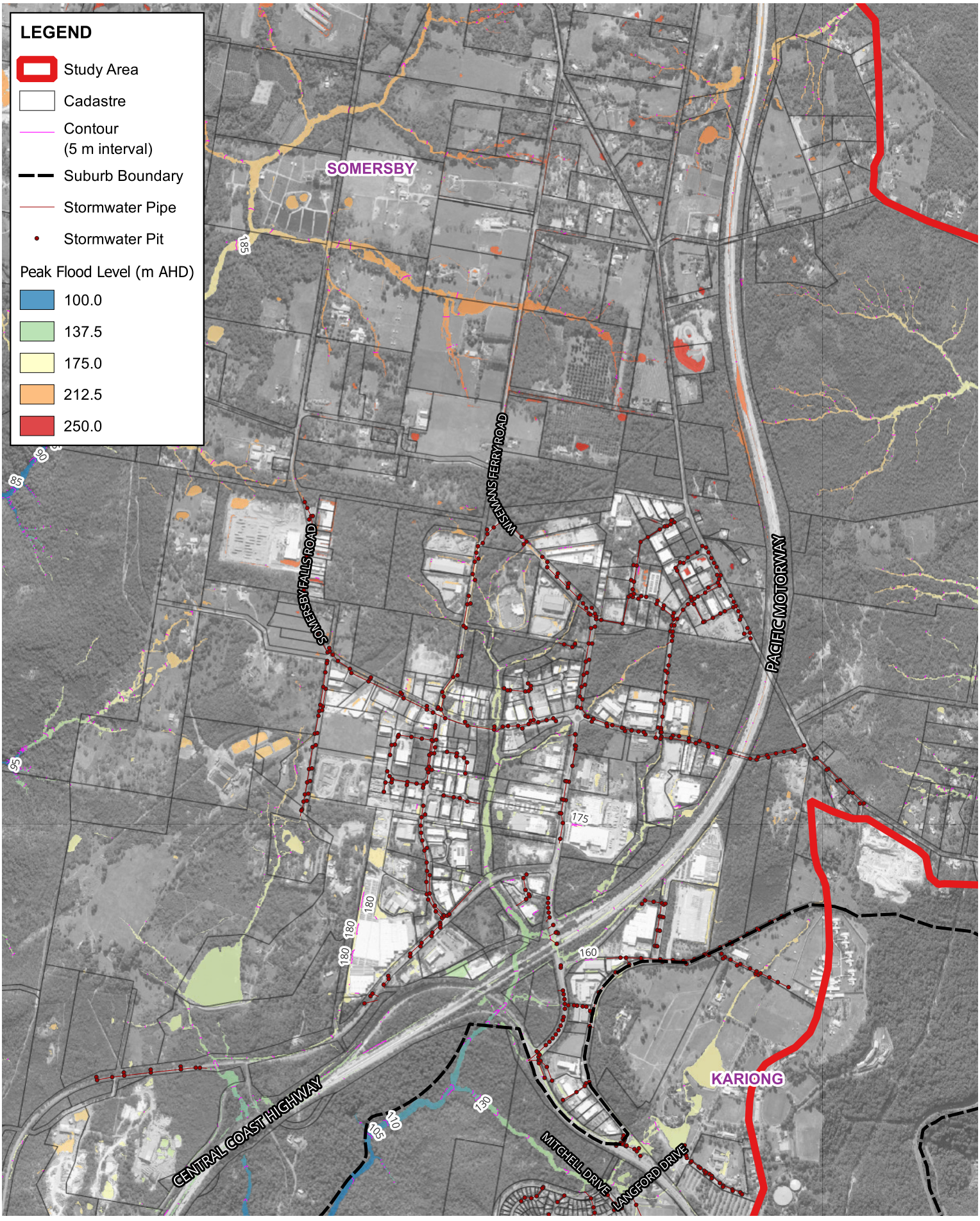
File: \\perfile001\data$\Water_Resources\Projects\SEW353_Kariong_Somersby_Flood_Study\G_GIS\Workspaces\Stage_Final_Draft\MS_Figures.qgz

Scale:

0 0.08 0.16 0.24 0.32 0.4 km

1:10,000

KBR




Title:

# Peak Flood Level - Somersby Industrial Area
# March 2021 Calibration Event Scenario

Figure: B-20

Rev: 0

Scale at A4 1:20000
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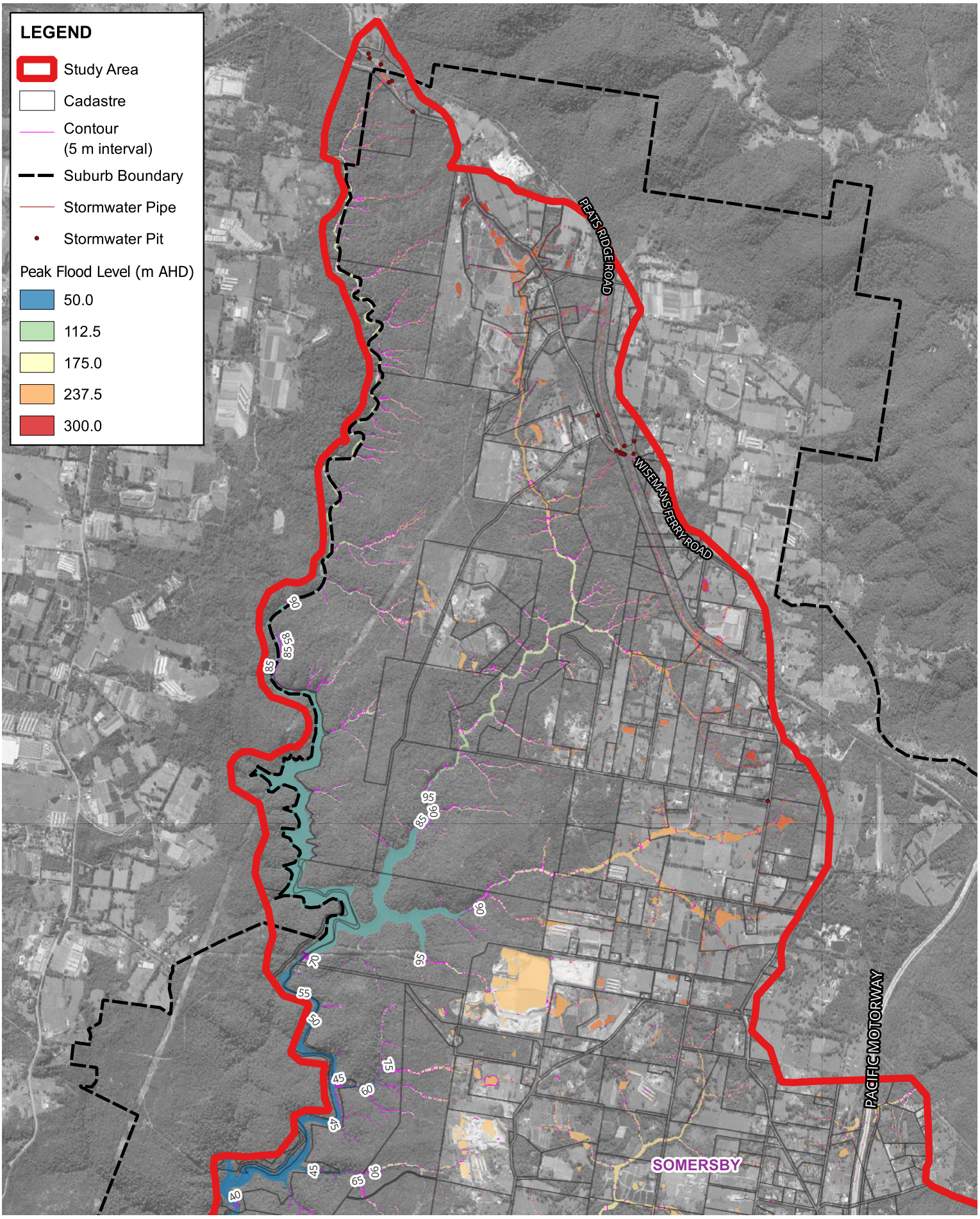
Scale:

0 0.1 0.2 0.3 0.4 0.5 km

1:20,000

KBR




Title:

# Peak Flood Level - Northern Catchment March 2021 Calibration Event Scenario

Figure: B-21

Rev: 0

Scale at A4 1:40000
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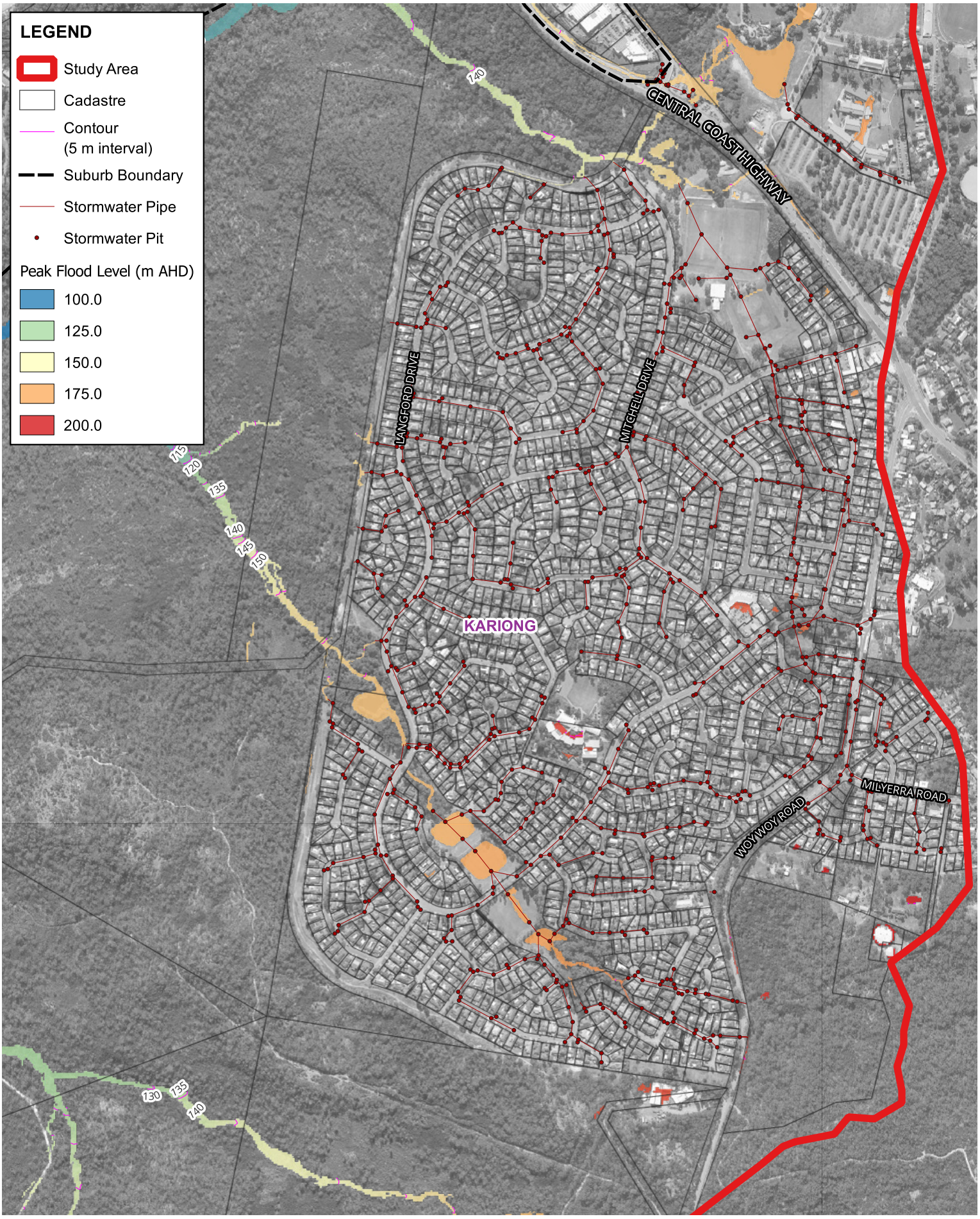
File: \\perfile001\data$\Water_Resources\Projects\SEW353_Kariong_Somersby_Flood_Study\G_GIS\Workspaces\Stage_Final_Draft\MS_Figures.qgz

Scale:

0 0.3 0.6 0.9 1.2 1.5 km

1:40,000

KBR




Title:

# Peak Flood Level - Kariong Town
# March 2022 Calibration Event Scenario

Figure: B-22

Rev: 0

Scale at A4 1:10000

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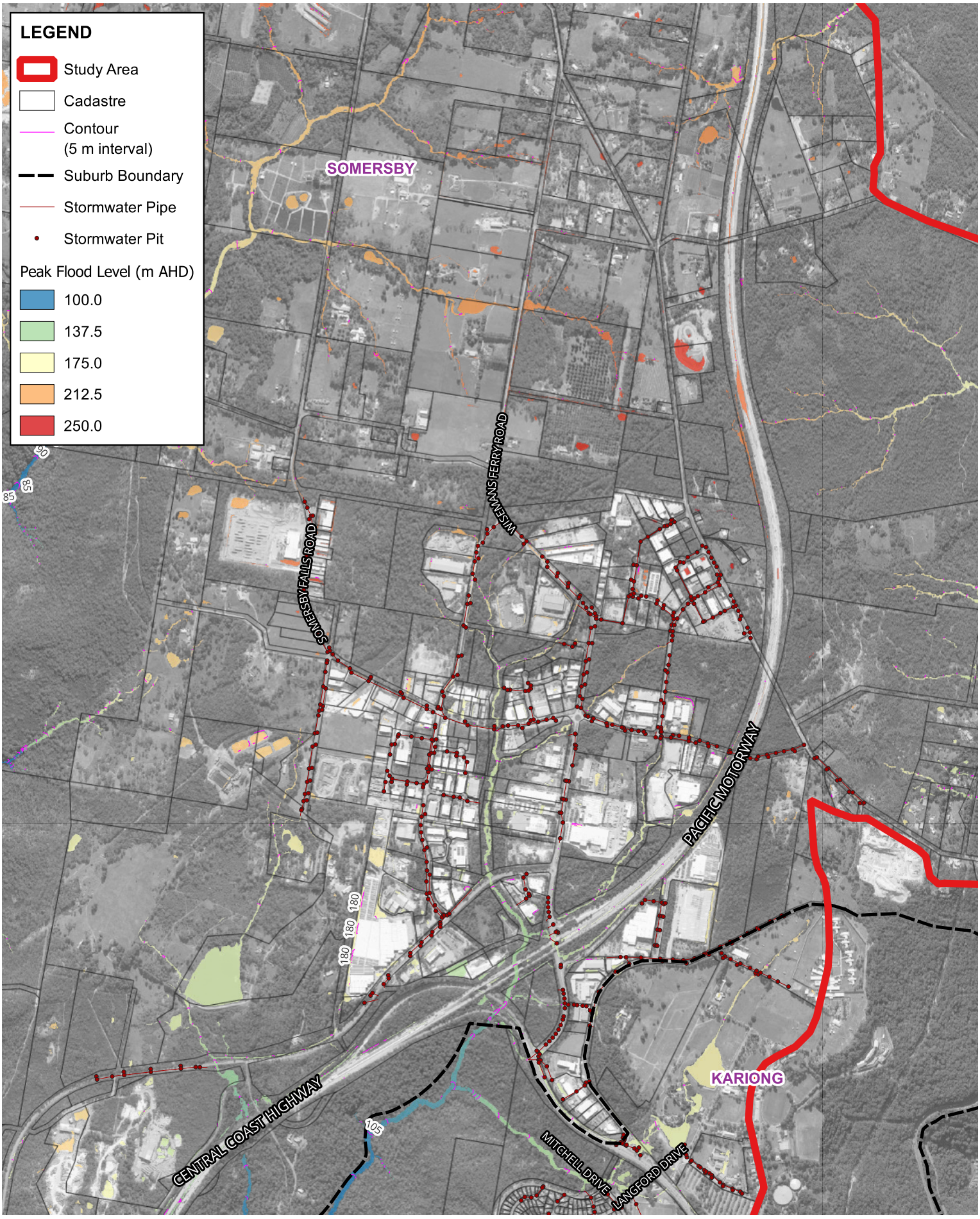
File: \\perfile001\data$\Water_Resources\Projects\SEW353_Kariong_Somersby_Flood_Study\G_GIS\Workspaces\Stage_Final_Draft\MS_Figures.qgz

Scale:

0 0.08 0.16 0.24 0.32 0.4 km

1:10,000

KBR




# Peak Flood Level - Somersby Industrial Area
# March 2022 Calibration Event Scenario

Figure: B-23

Rev: 0

Scale at A4 1:20000

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File: \\perfile001\data$\Water_Resources\Projects\SEW353_Kariong_Somersby_Flood_Study\G_GIS\Workspaces\Stage_Final_Draft\MS_Figures.qgz

Scale:

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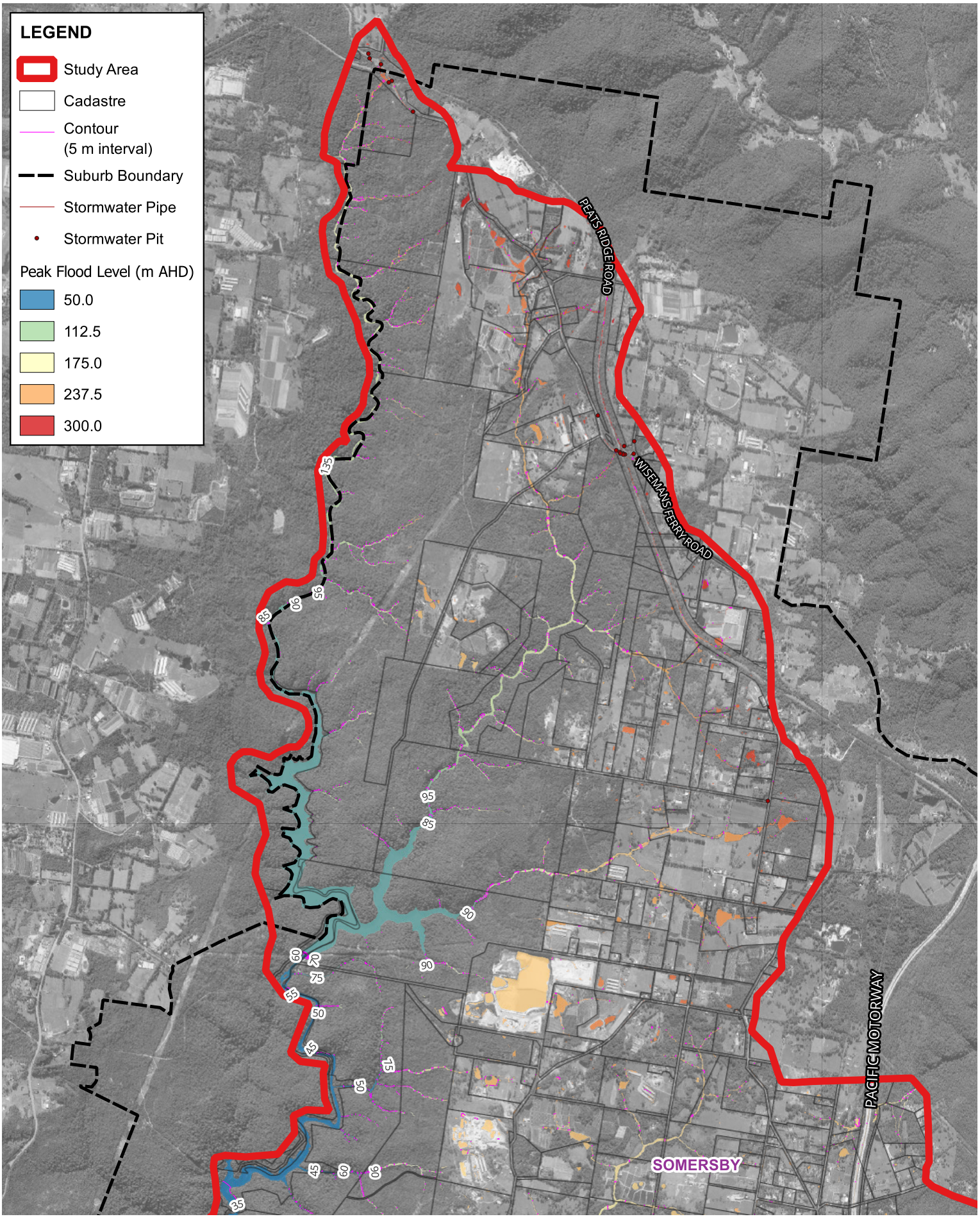
1:20,000




Title:

# Peak Flood Level - Northern Catchment March 2022 Calibration Event Scenario

Figure: B-24

Rev: 0

Scale at A4 1:40000

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Scale:

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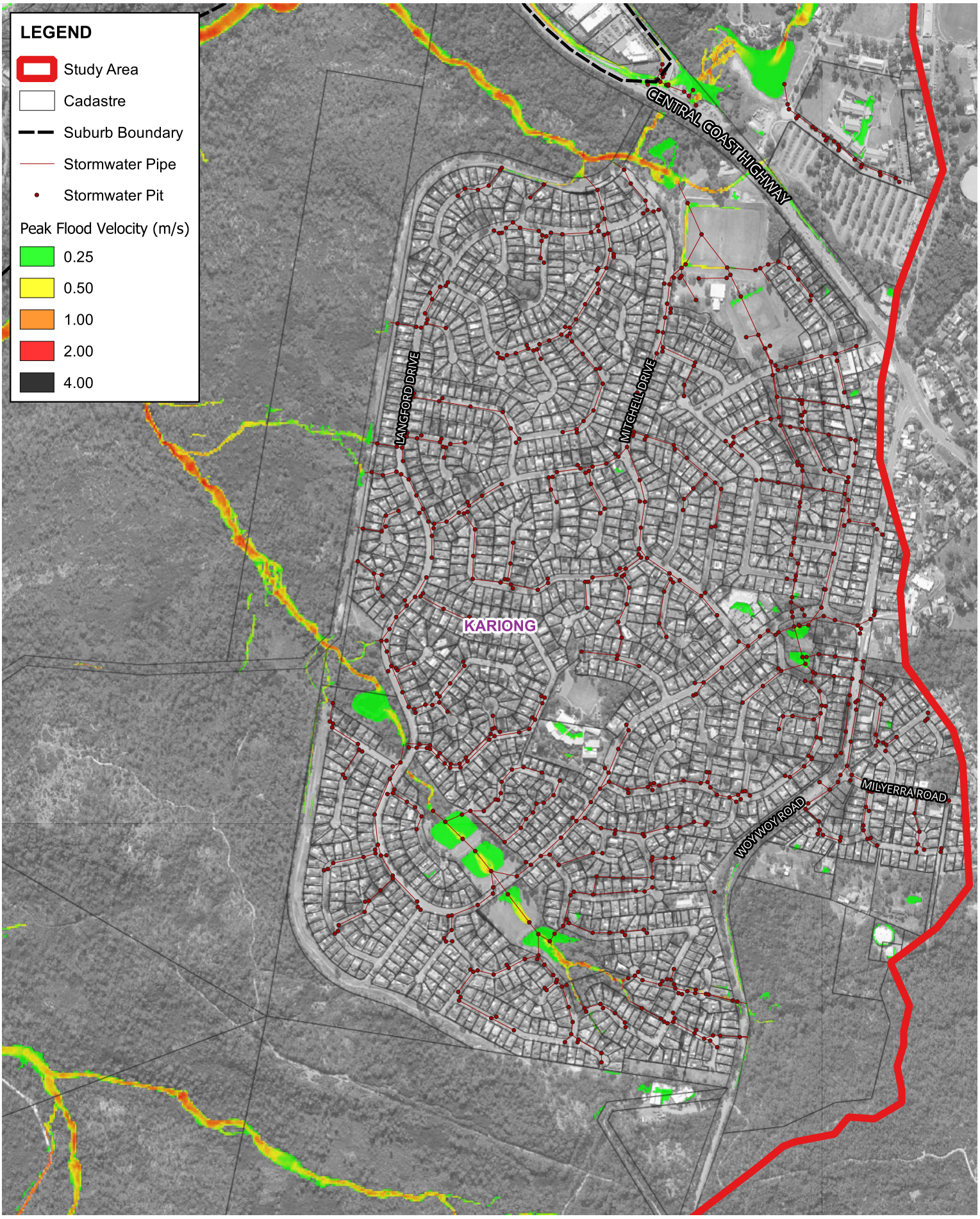


Title:

# Peak Flood Velocity - Kariong Town
# June 2007 Calibration Event Scenario

Figure: B-25

Rev: 0

Scale at A4 1:10000

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Scale:

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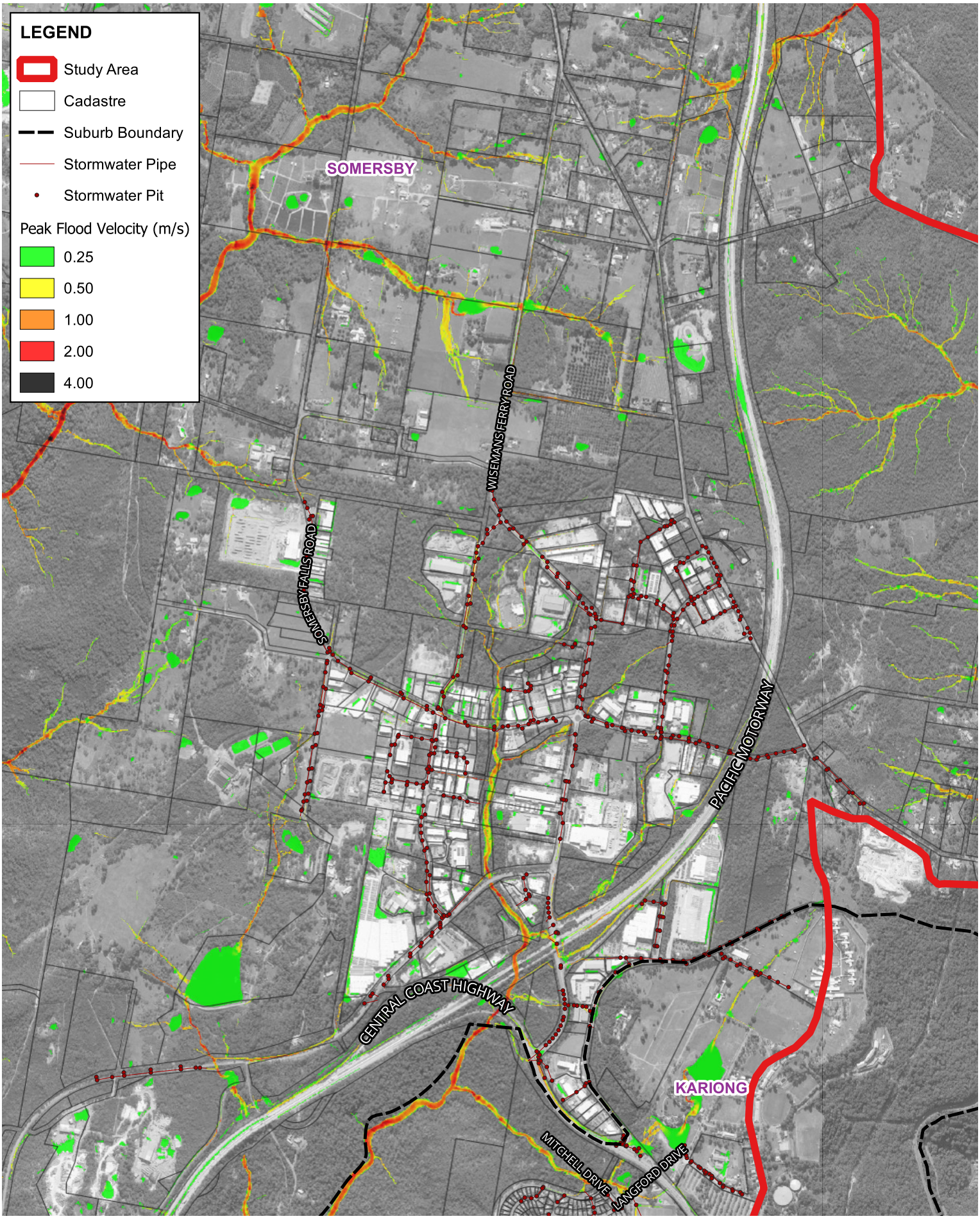
1:10,000




Title:

# Peak Flood Velocity - Somersby Industrial Area
# June 2007 Calibration Event Scenario

Figure: B-26

Rev: 0

Scale at A4 1:20000
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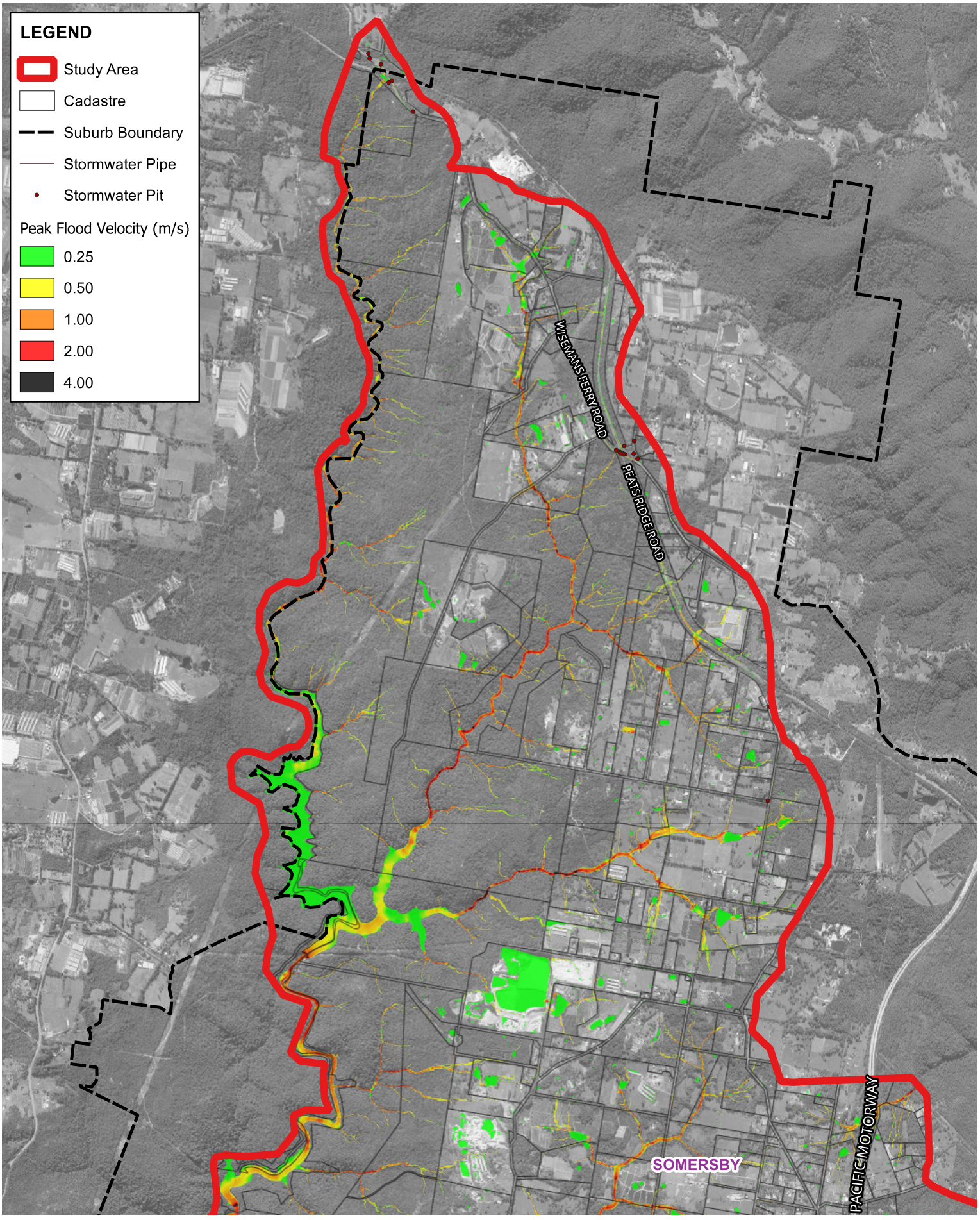
File: \\perfile001\data$\Water_Resources\Projects\SEW353_Kariong_Somersby_Flood_Study\G_GIS\Workspaces\Stage_Final_Draft\MS_Figures.qgz

Scale:

0 0.1 0.2 0.3 0.4 0.5 km

1:20,000

KBR




Title:

# Peak Flood Velocity - Northern Catchment
# June 2007 Calibration Event Scenario

Figure: B-27

Rev: 0

Scale at A4 1:40000

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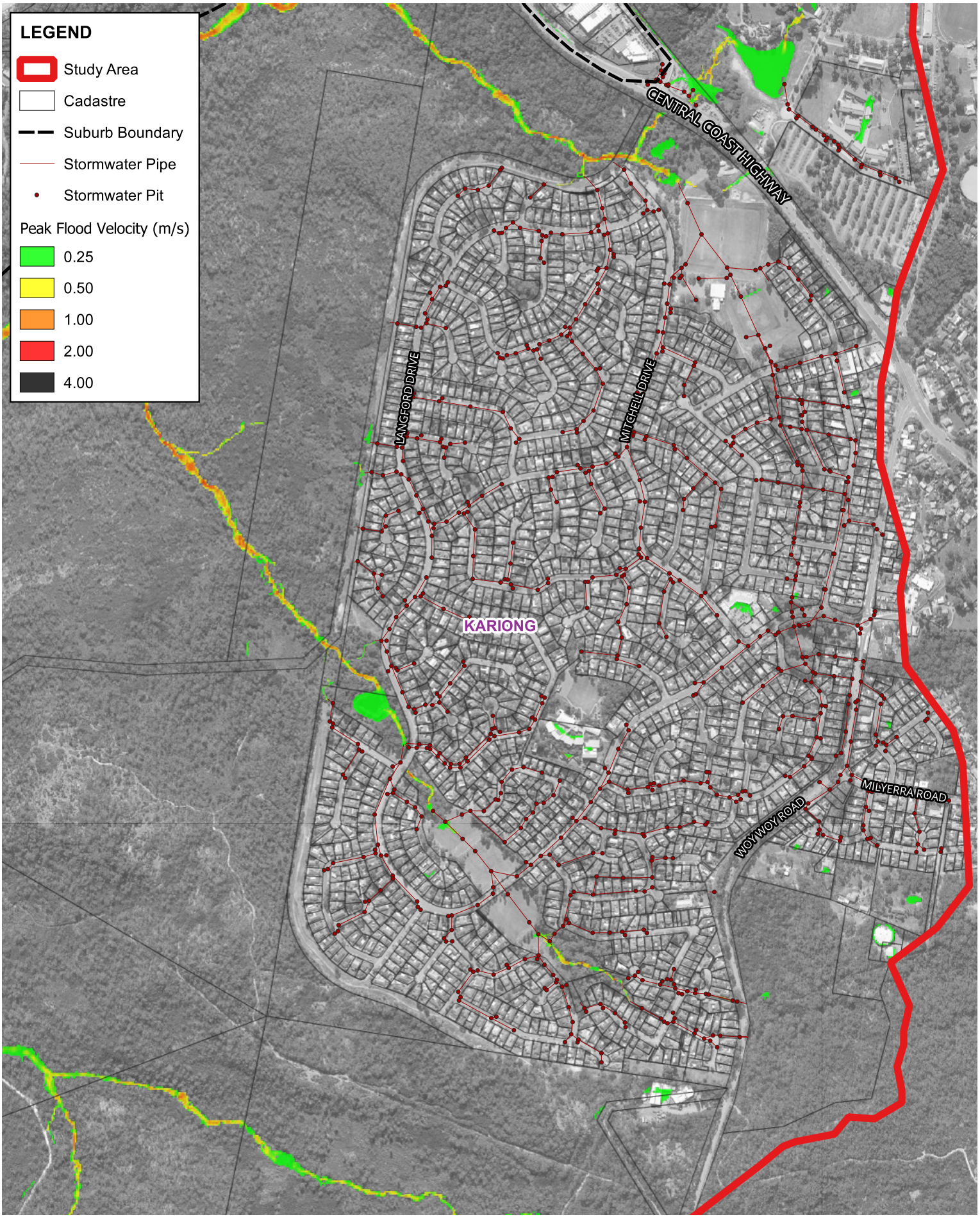
File: \\perfile001\data$\Water_Resources\Projects\SEW353_Kariong_Somersby_Flood_Study\G_GIS\Workspaces\Stage_Final_Draft\MS_Figures.qgz

Scale:

0 0.3 0.6 0.9 1.2 1.5 km

1:40,000

KBR




Title:

# Peak Flood Velocity - Kariong Town November 2011 Calibration Event Scenario

Figure: B-28

Rev: 0

Scale at A4 1:10000

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Scale:

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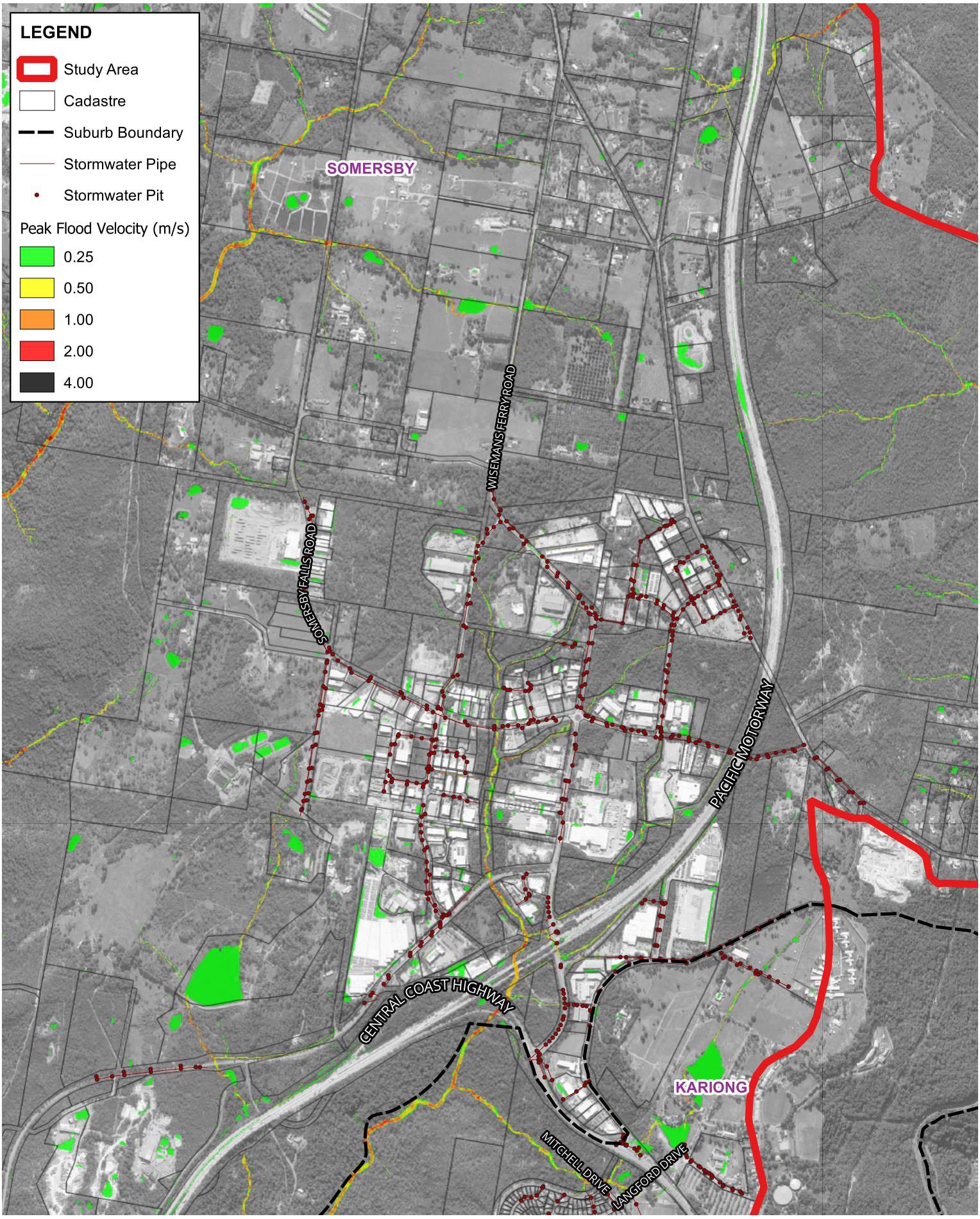
1:10,000




Title:

# Peak Flood Velocity - Somersby Industrial Area
# November 2011 Calibration Event Scenario

Figure: B-29

Rev: 0

Scale at A4 1:20000

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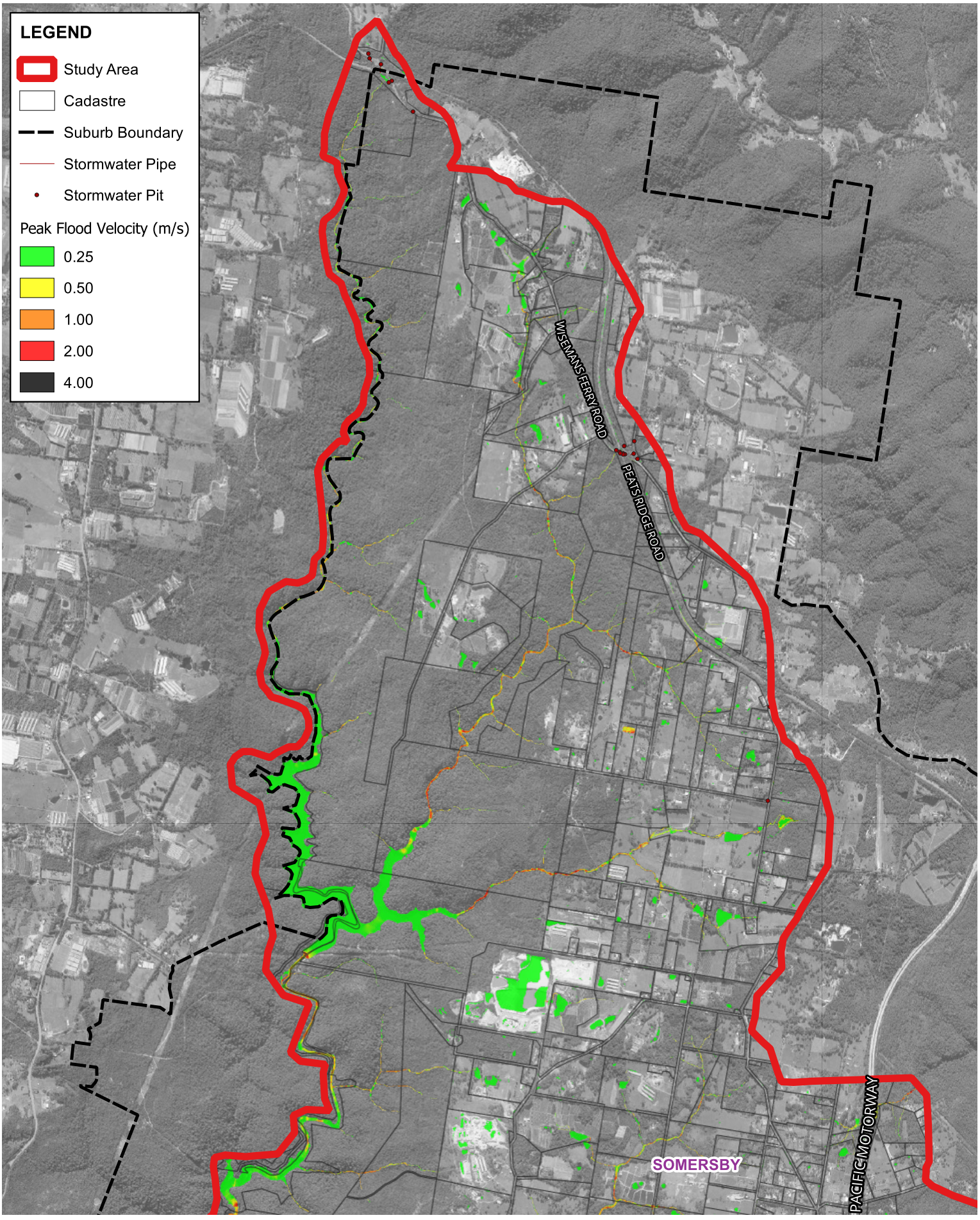
File: \\perfile001\data$\Water_Resources\Projects\SEW353_Kariong_Somersby_Flood_Study\G_GIS\Workspaces\Stage_Final_Draft\MS_Figures.qgz

Scale:

0 0.1 0.2 0.3 0.4 0.5 km

1:20,000

KBR




Title:

# Peak Flood Velocity - Northern Catchment November 2011 Calibration Event Scenario

Figure: B-30

Rev: 0

Scale at A4 1:40000

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Scale:

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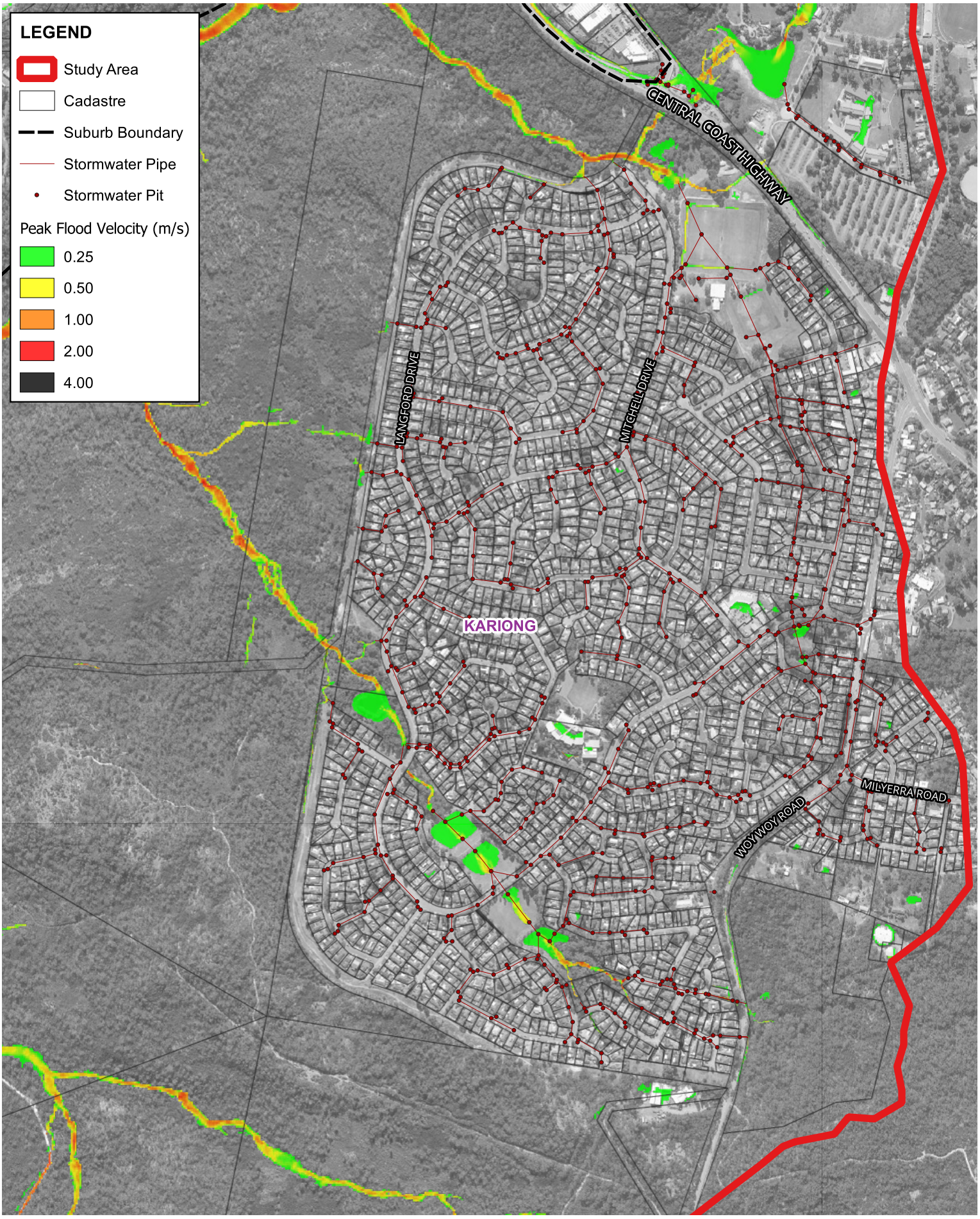
KBR




Title:

# Peak Flood Velocity - Kariong Town March 2021 Calibration Event Scenario

Figure: B-31

Rev: 0

Scale at A4 1:10000

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Scale:

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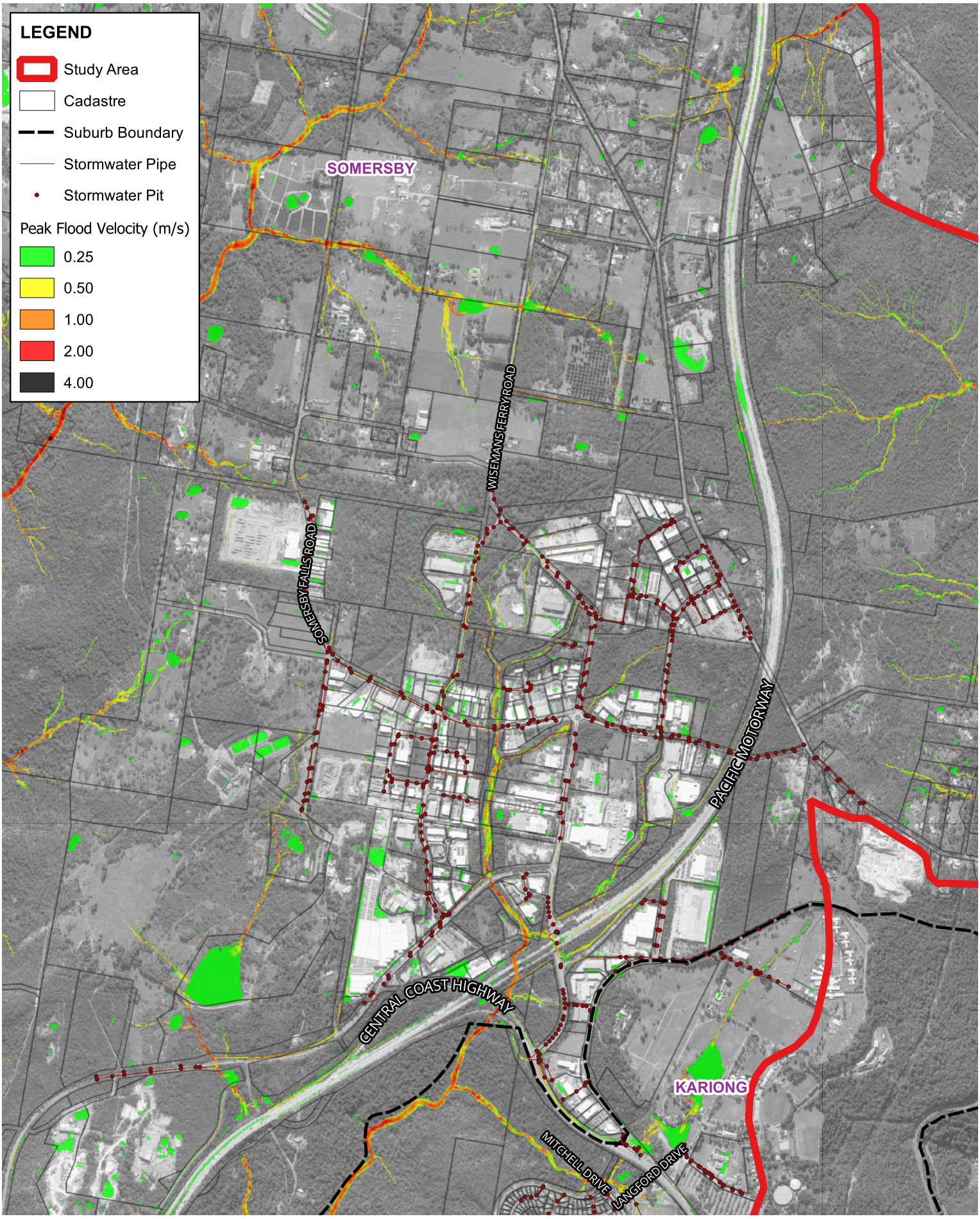


Title:

# Peak Flood Velocity - Somersby Industrial Area
# March 2021 Calibration Event Scenario

Figure: B-32

Rev: 0

Scale at A4 1:20000

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Scale:

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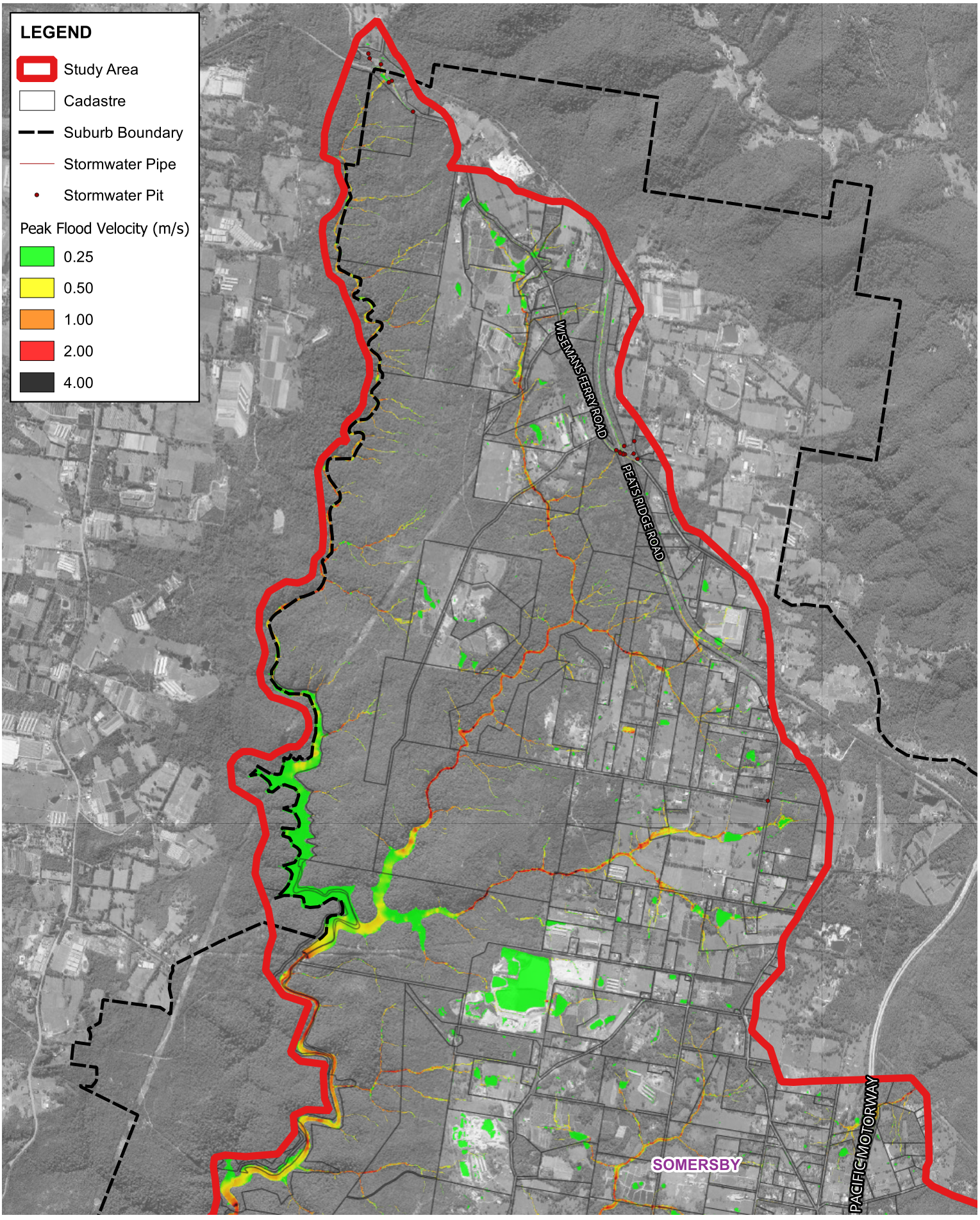


Title:

# Peak Flood Velocity - Northern Catchment March 2021 Calibration Event Scenario

Figure: B-33

Rev: 0

Scale at A4 1:40000

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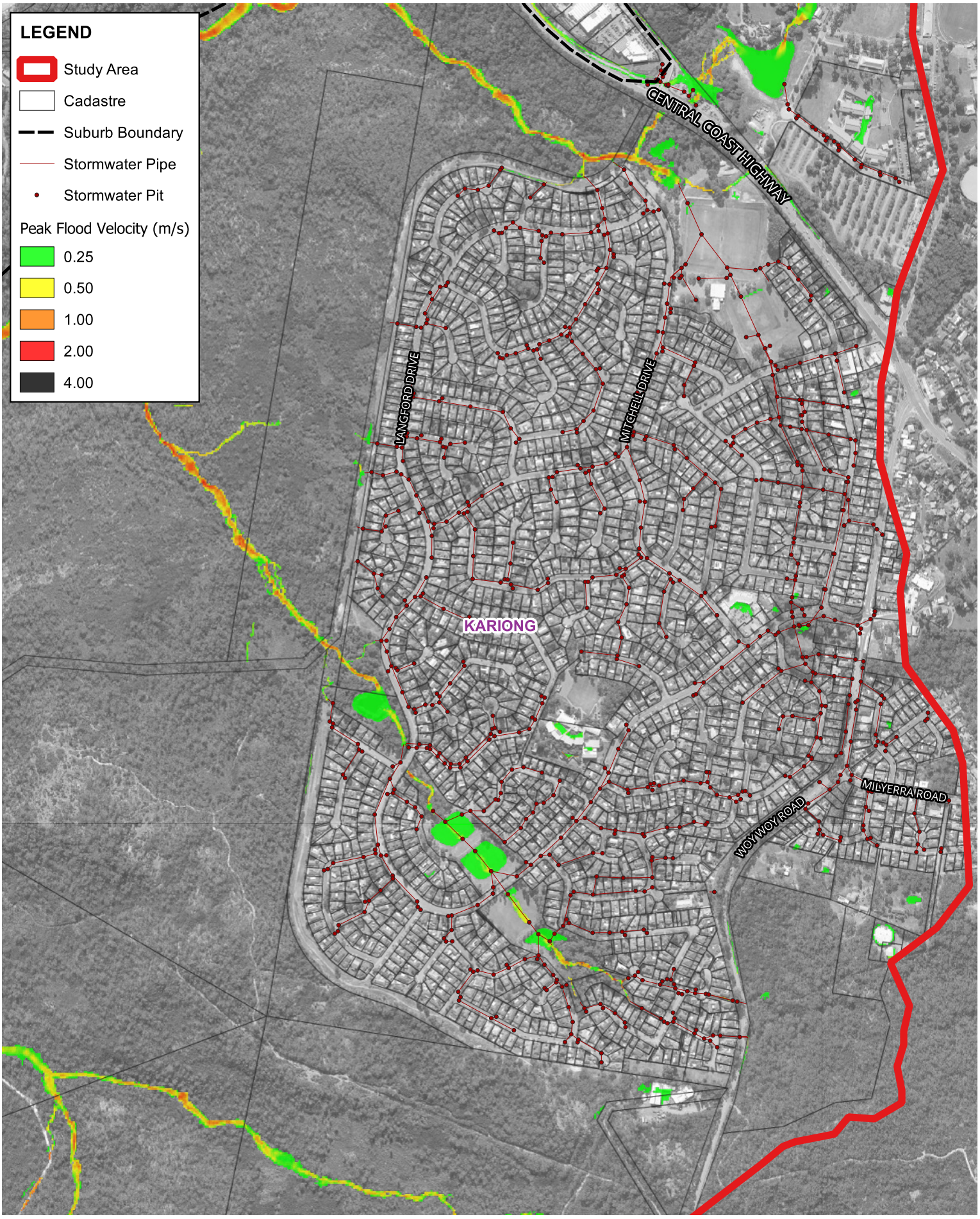


Title:

# Peak Flood Velocity - Kariong Town March 2022 Calibration Event Scenario

Figure: B-34

Rev: 0

Scale at A4 1:10000

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Scale:

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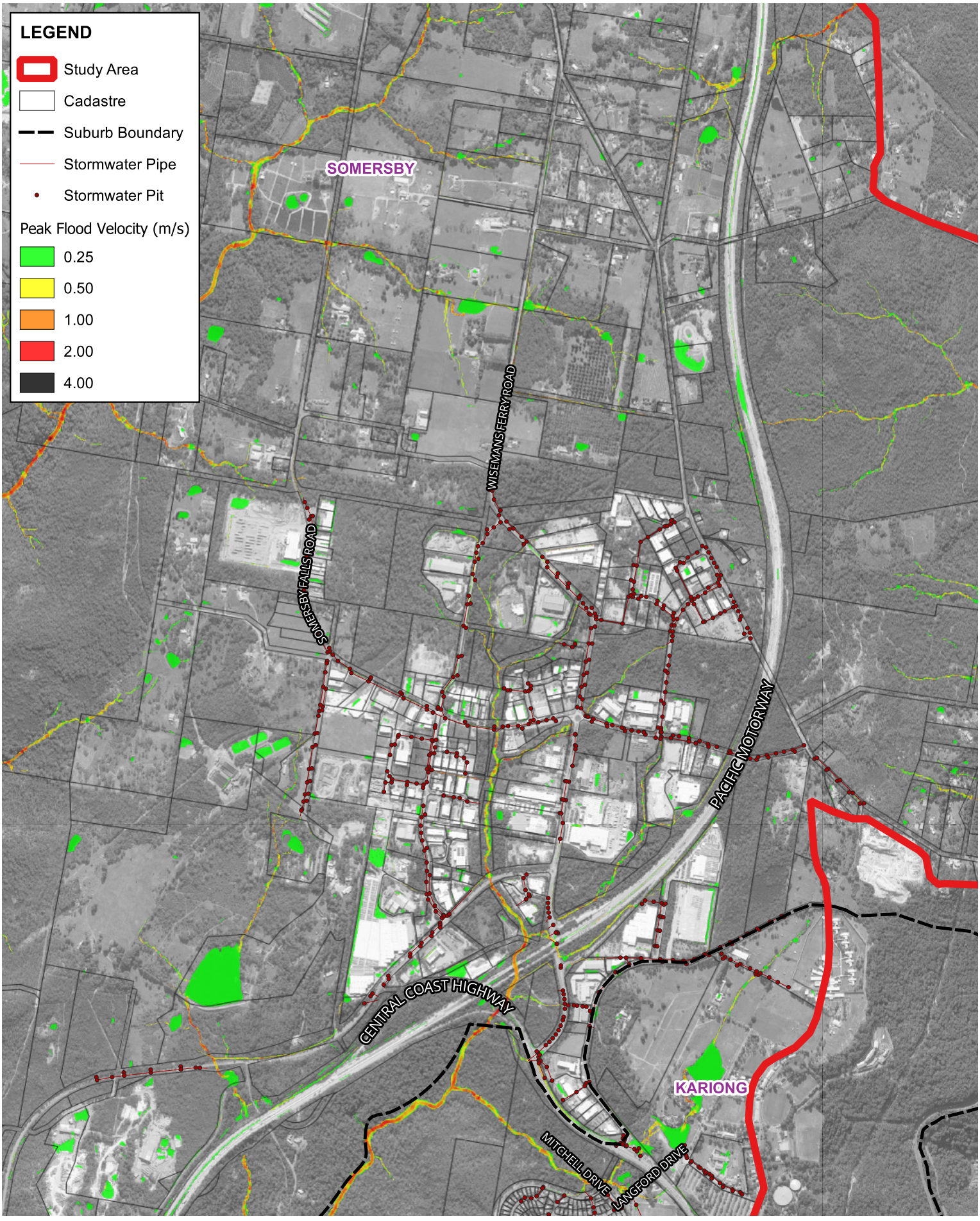


Title:

# Peak Flood Velocity - Somersby Industrial Area
# March 2022 Calibration Event Scenario

Figure: B-35

Rev: 0

Scale at A4 1:20000
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Scale:

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1:20,000

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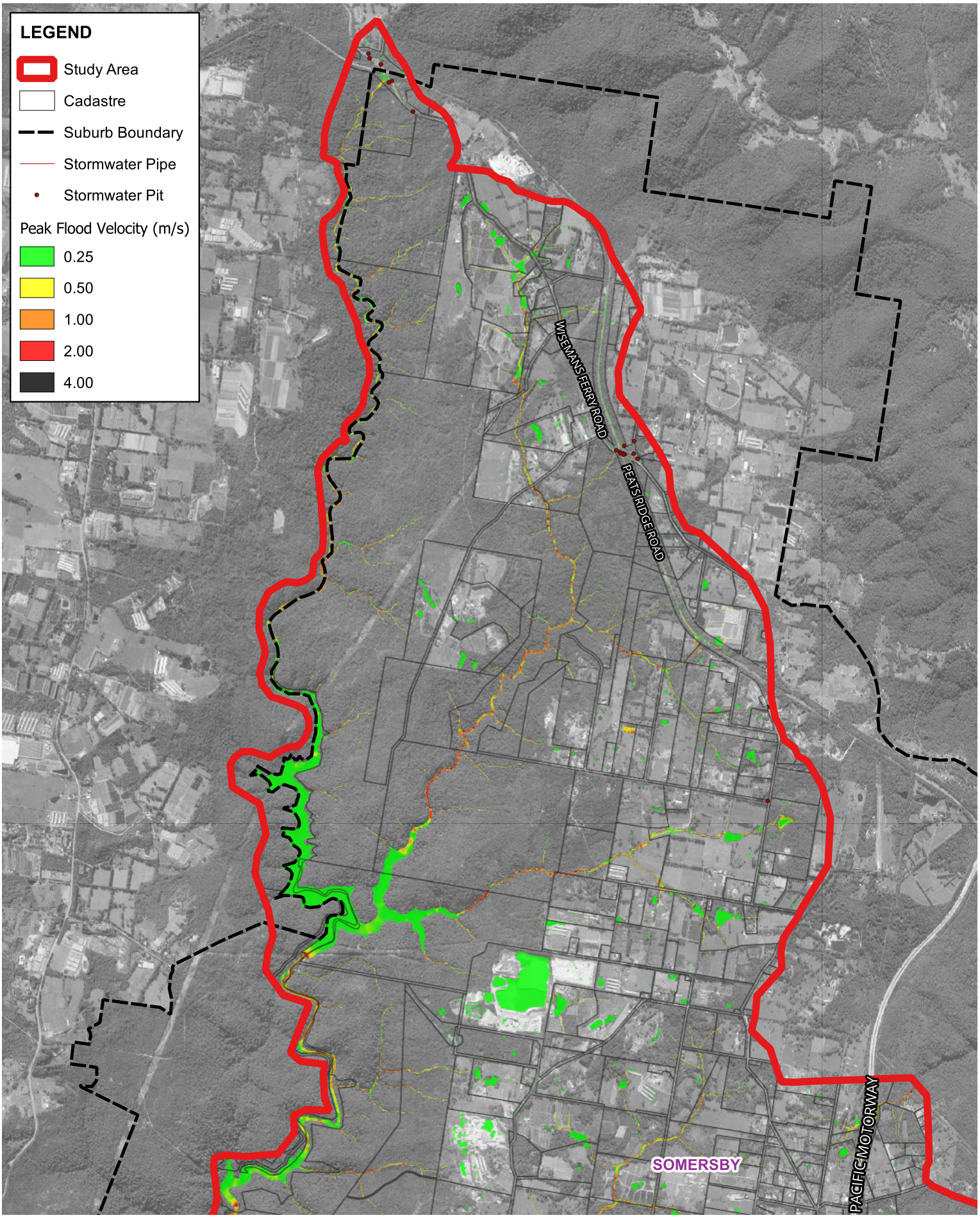


Title:

# Peak Flood Velocity - Northern Catchment March 2022 Calibration Event Scenario

Figure: B-36

Rev: 0

Scale at A4 1:40000

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Scale:

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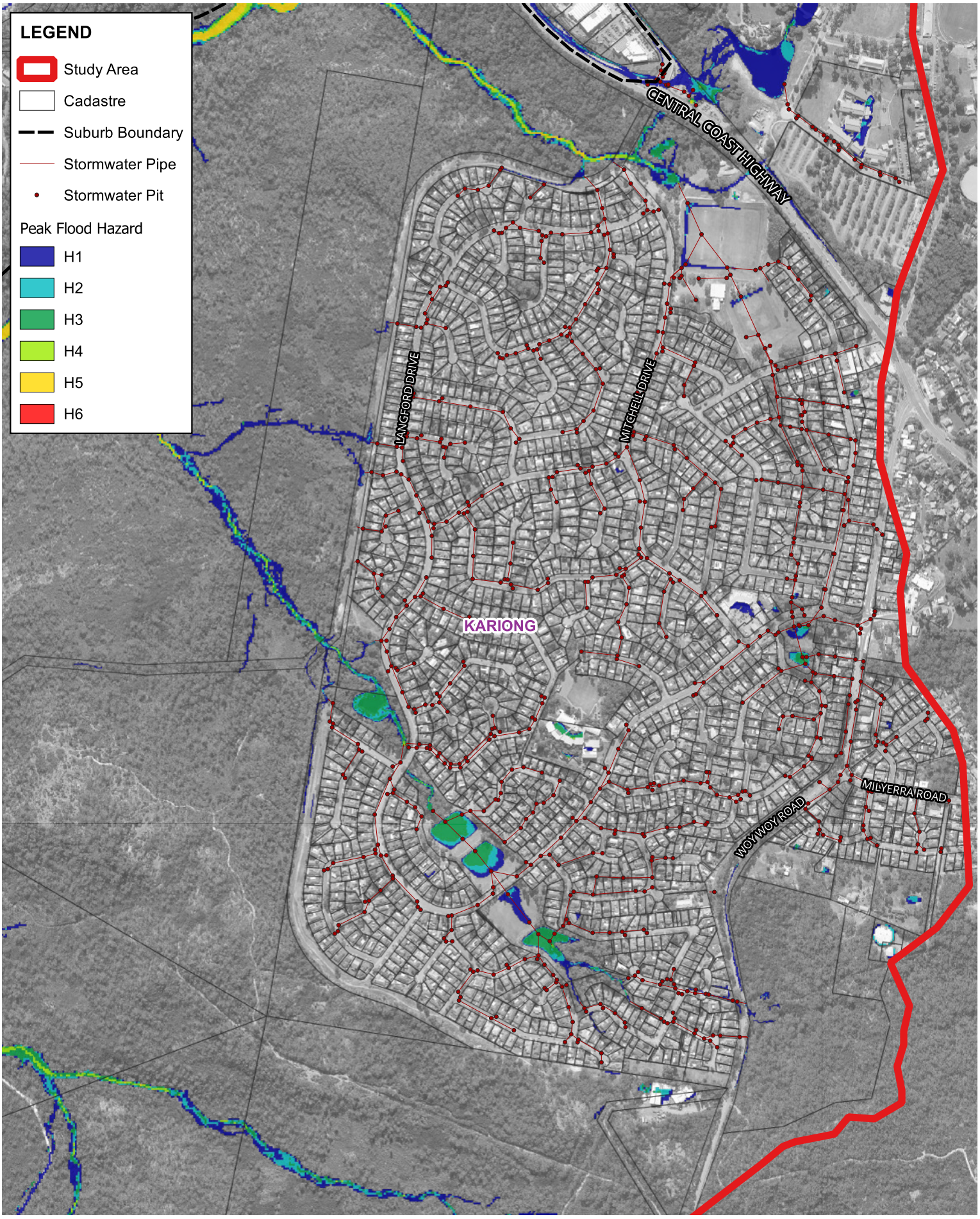


Title:

# Peak Flood Hazard - Kariong Town
# June 2007 Calibration Event Scenario

Figure: B-37

Rev: 0

Scale at A4 1:10000

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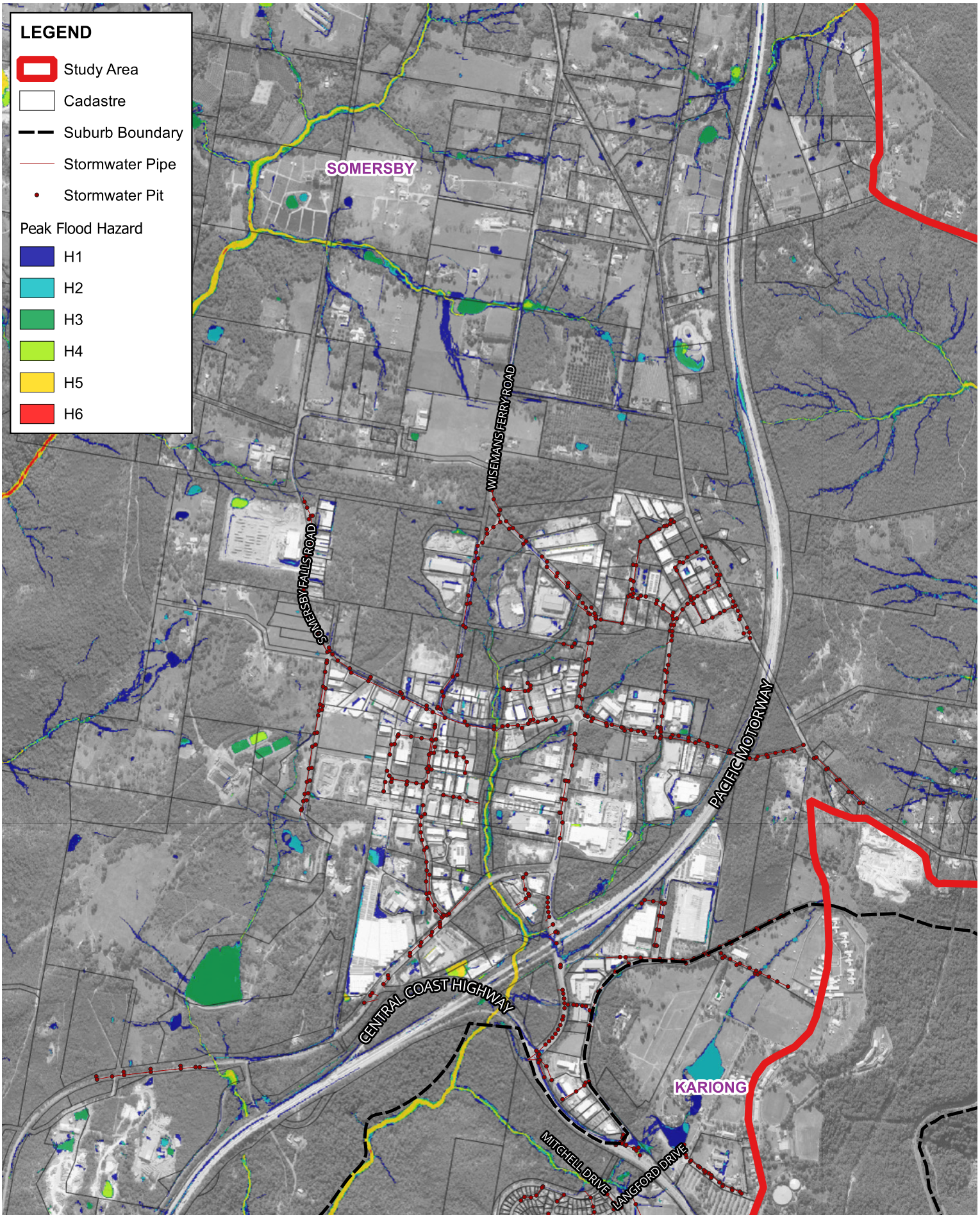
Scale:

0 0.08 0.16 0.24 0.32 0.4 km

1:10,000




Title:

# Peak Flood Hazard - Somersby Industrial Area
# June 2007 Calibration Event Scenario

Figure: B-38

Rev: 0

Scale at A4 1:20000
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Scale:

0 0.1 0.2 0.3 0.4 0.5 km

1:20,000

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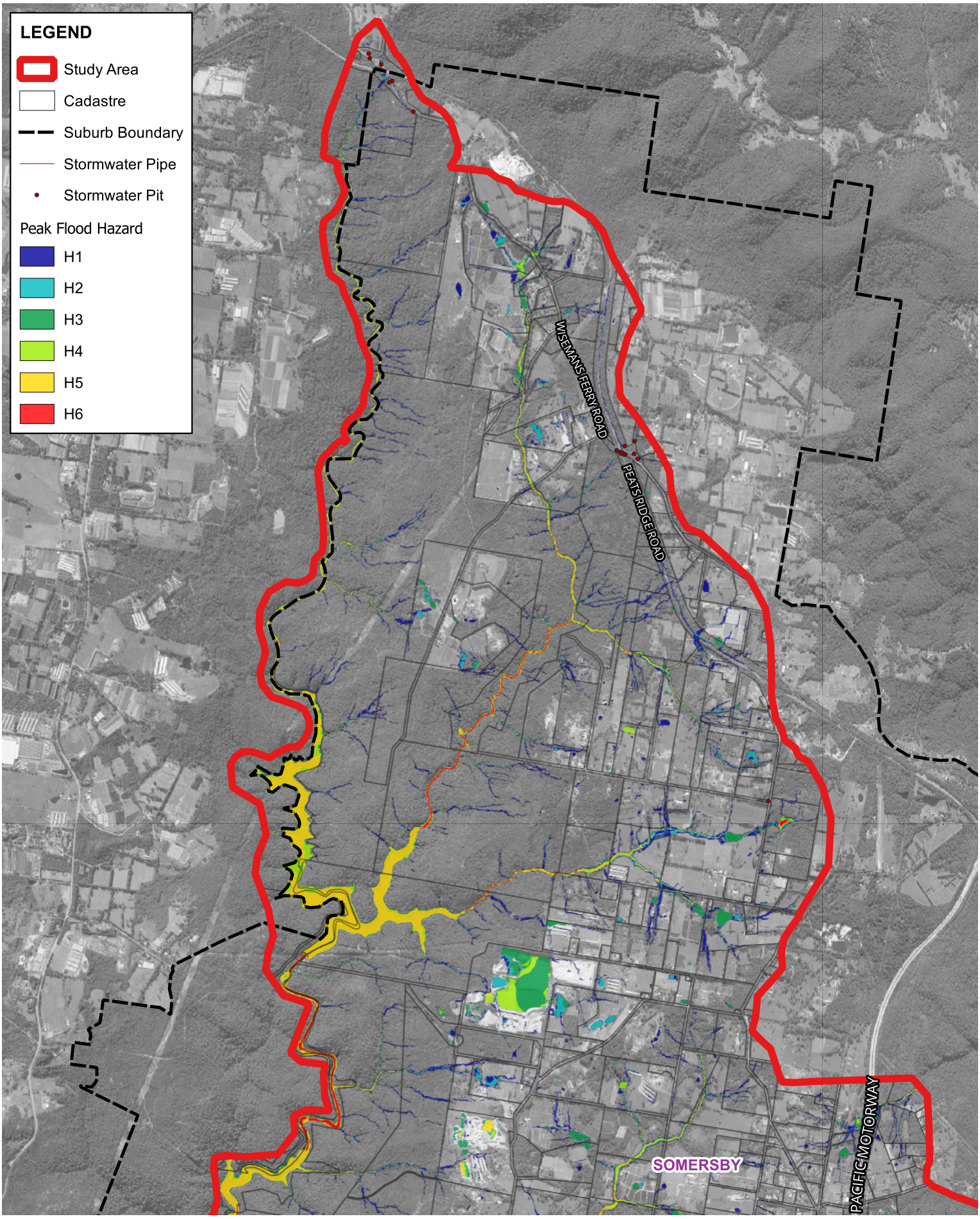


Title:

# Peak Flood Hazard - Northern Catchment June 2007 Calibration Event Scenario

Figure: B-39

Rev: 0

Scale at A4 1:40000

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Scale:

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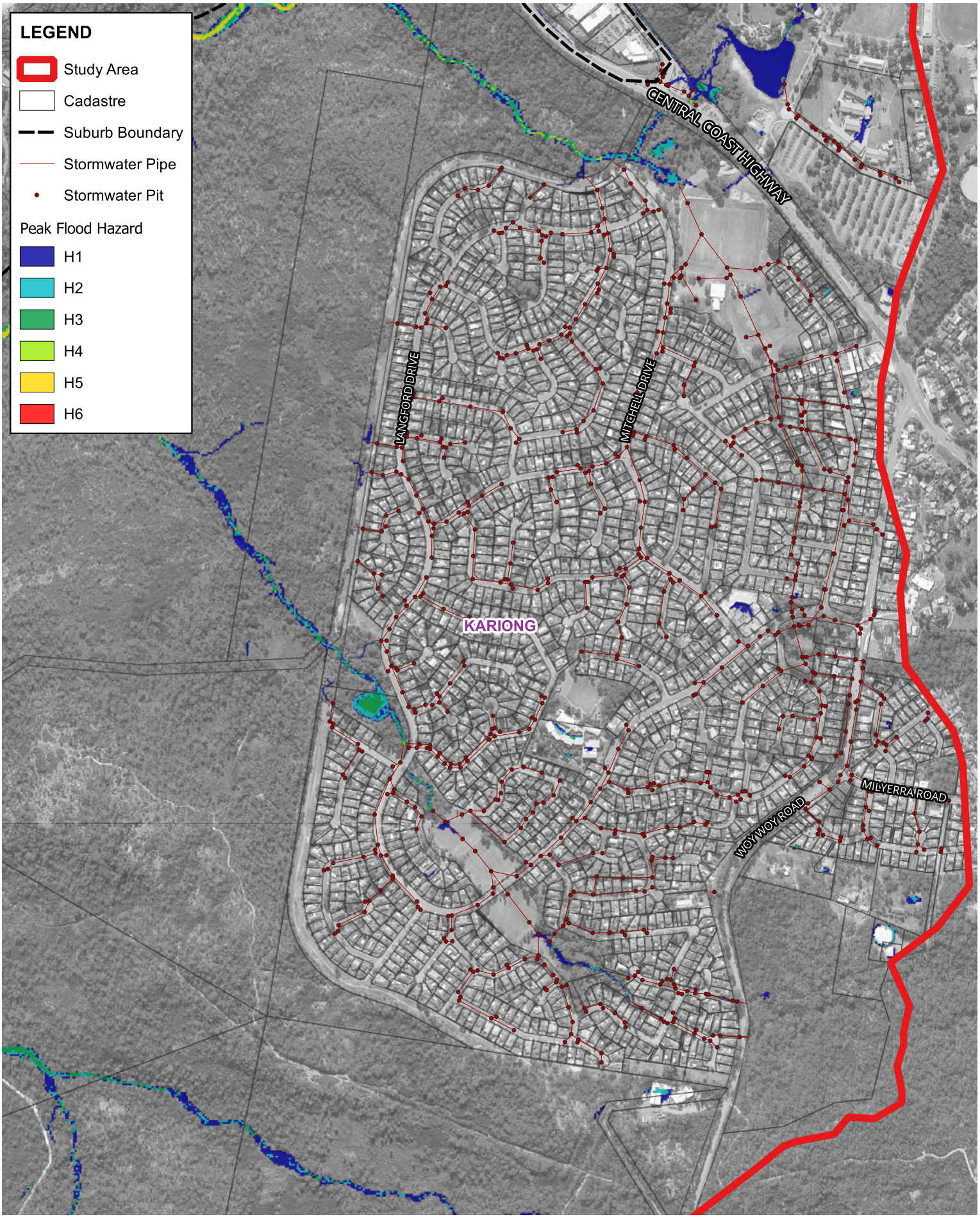


Title:

# Peak Flood Hazard - Kariong Town
# November 2011 Calibration Event Scenario

Figure: B-40

Rev: 0

Scale at A4 1:10000

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Scale:

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1:10,000

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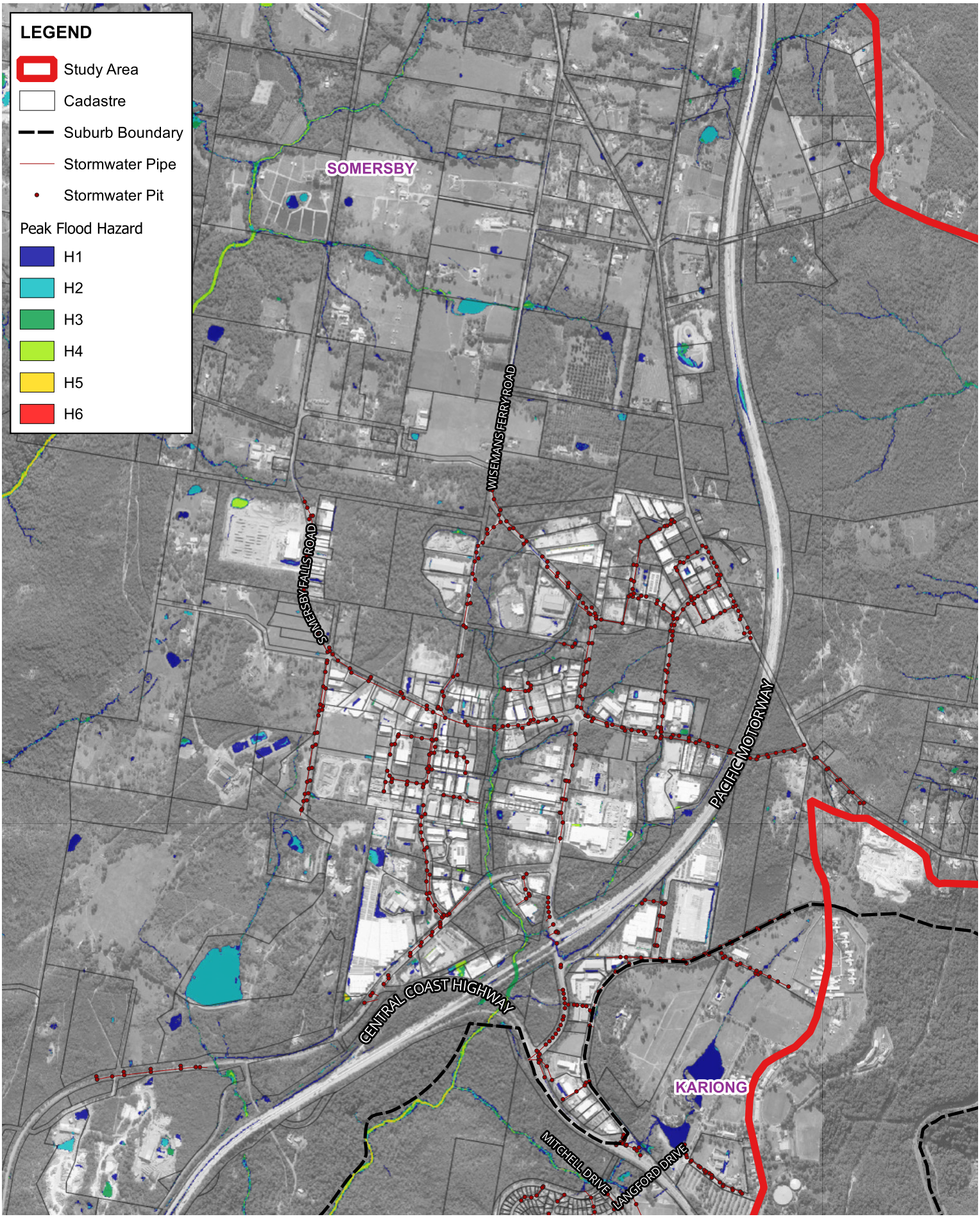


Title:

# Peak Flood Hazard - Somersby Industrial Area
# November 2011 Calibration Event Scenario

Figure: B-41

Rev: 0

Scale at A4 1:20000
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Scale:

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1:20,000

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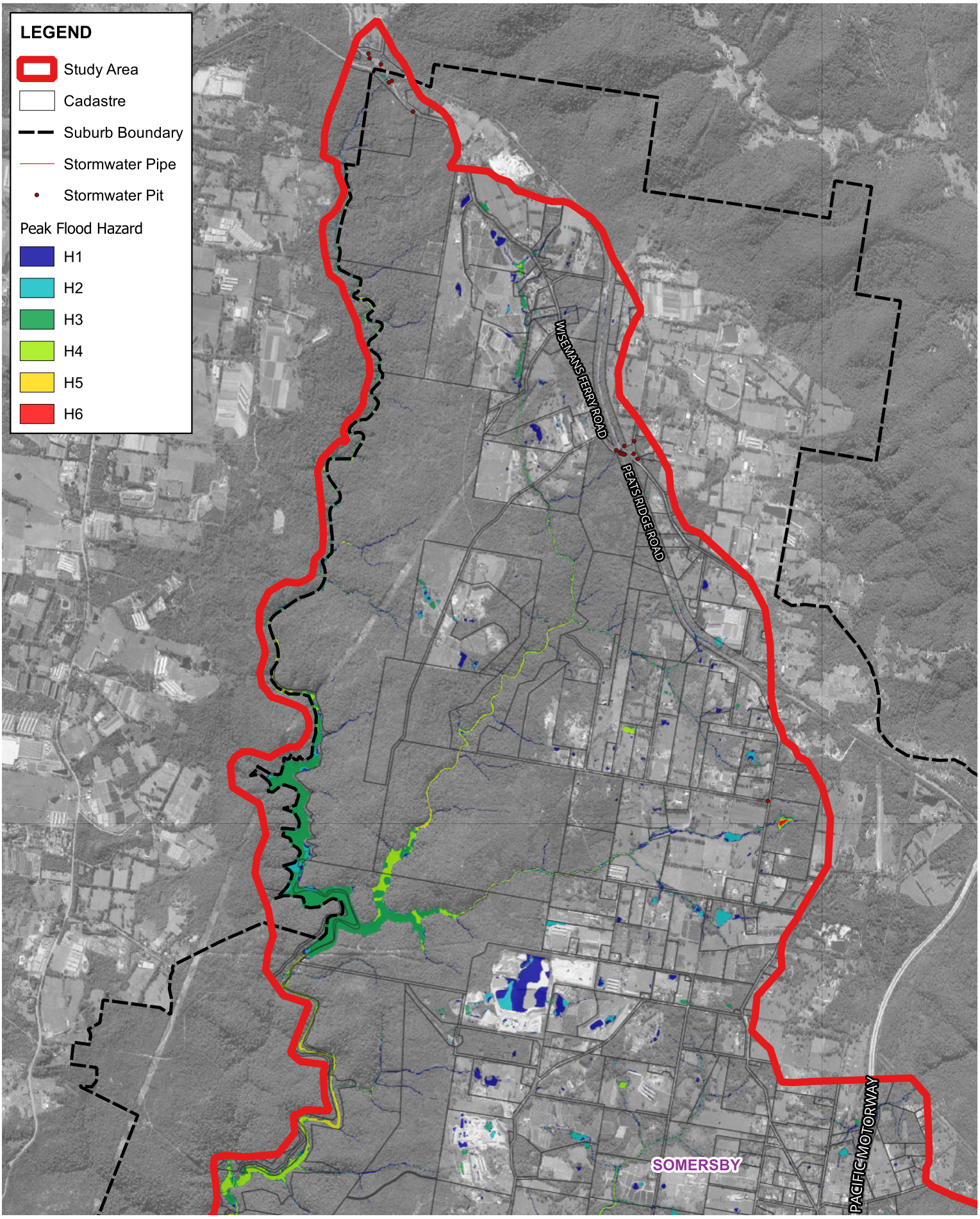


Title:

# Peak Flood Hazard - Northern Catchment November 2011 Calibration Event Scenario

Figure: B-42

Rev: 0

Scale at A4 1:40000

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Scale:

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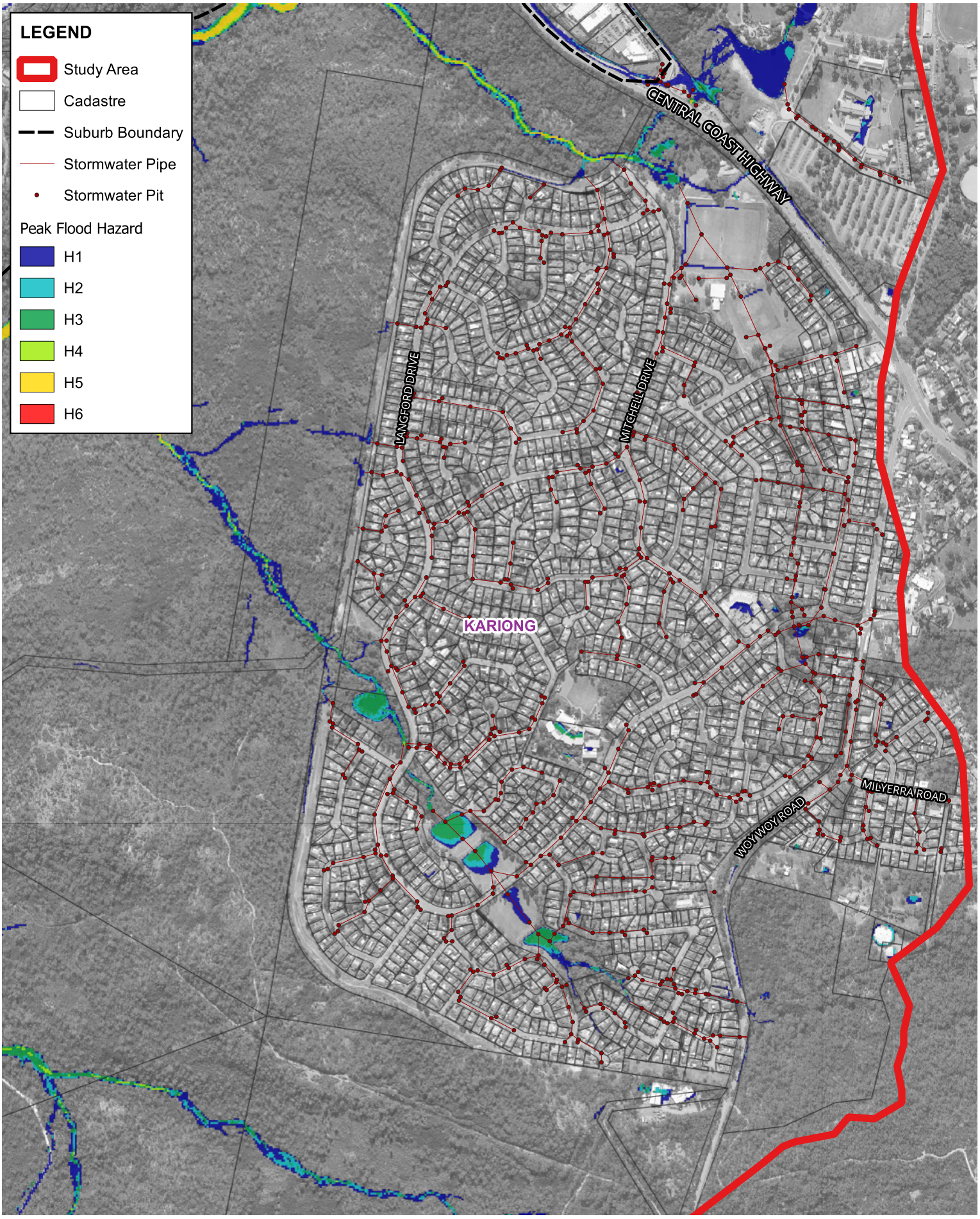


Title:

# Peak Flood Hazard - Kariong Town
# March 2021 Calibration Event Scenario

Figure: B-43

Rev: 0

Scale at A4 1:10000

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Scale:

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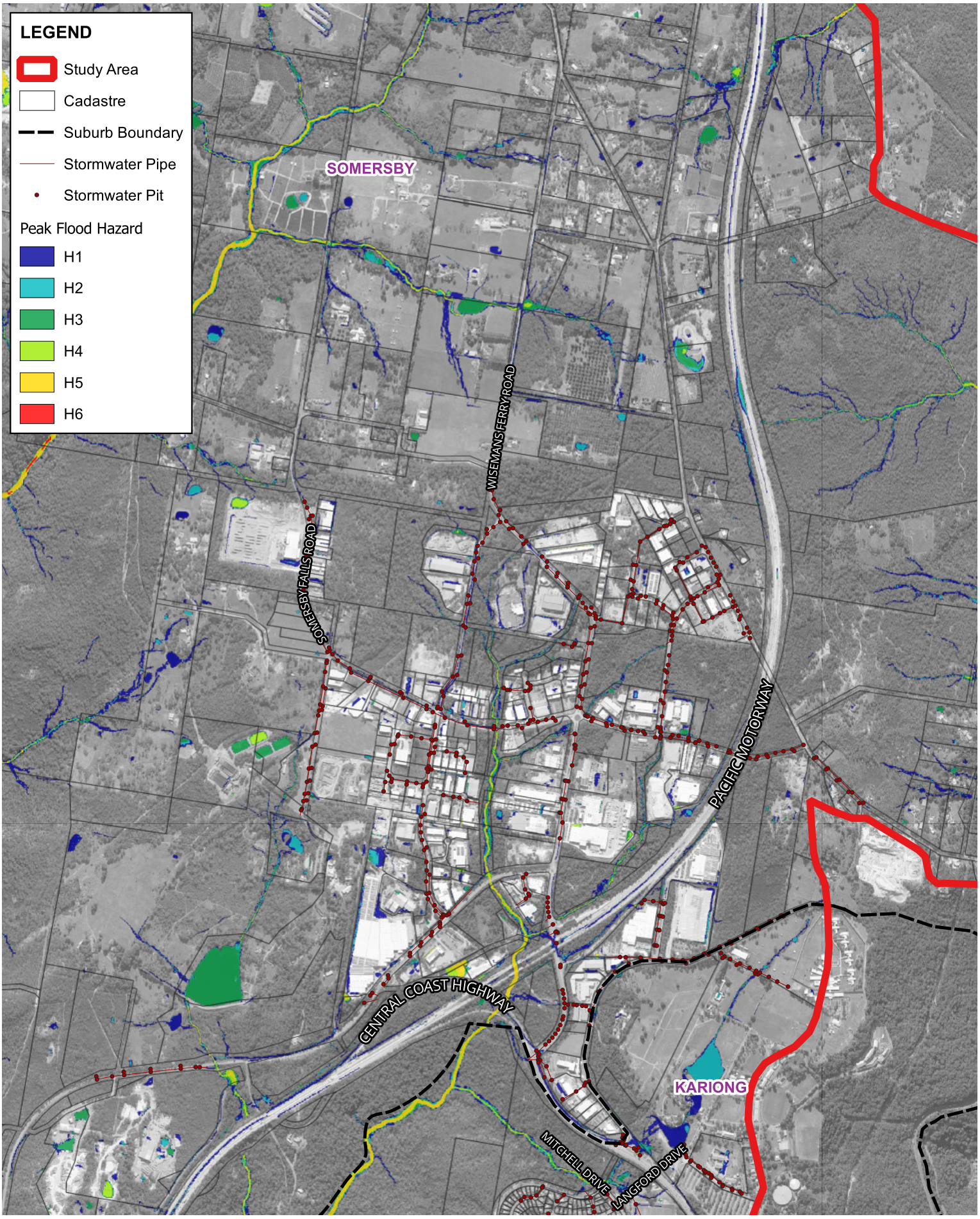


Title:

# Peak Flood Hazard - Somersby Industrial Area
# March 2021 Calibration Event Scenario

Figure: B-44

Rev: 0

Scale at A4 1:20000
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1:20,000

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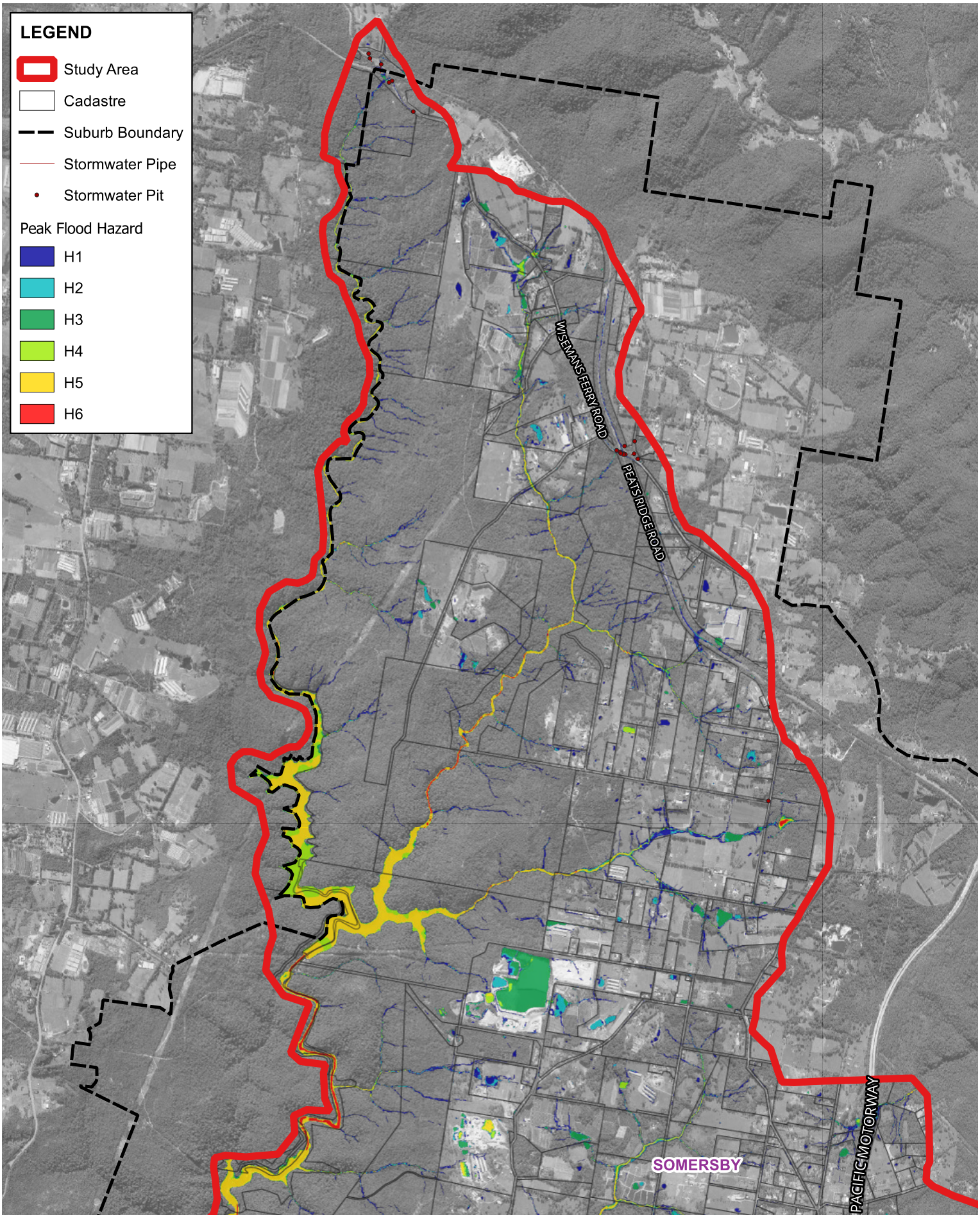


Title:

# Peak Flood Hazard - Northern Catchment March 2021 Calibration Event Scenario

Figure: B-45

Rev: 0

Scale at A4 1:40000

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Scale:

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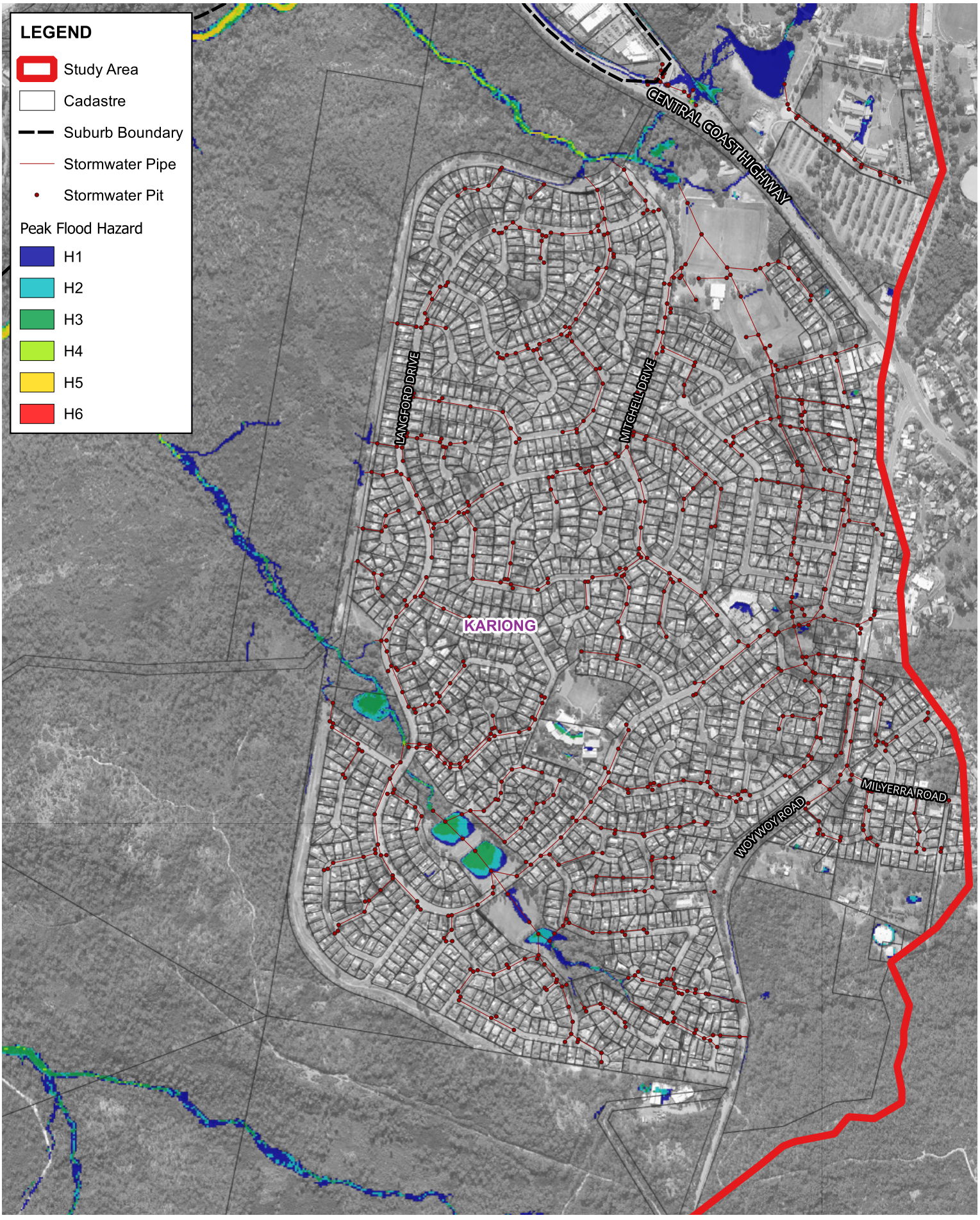


Title:

# Peak Flood Hazard - Kariong Town
# March 2022 Calibration Event Scenario

Figure: B-46

Rev: 0

Scale at A4 1:10000
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Scale:

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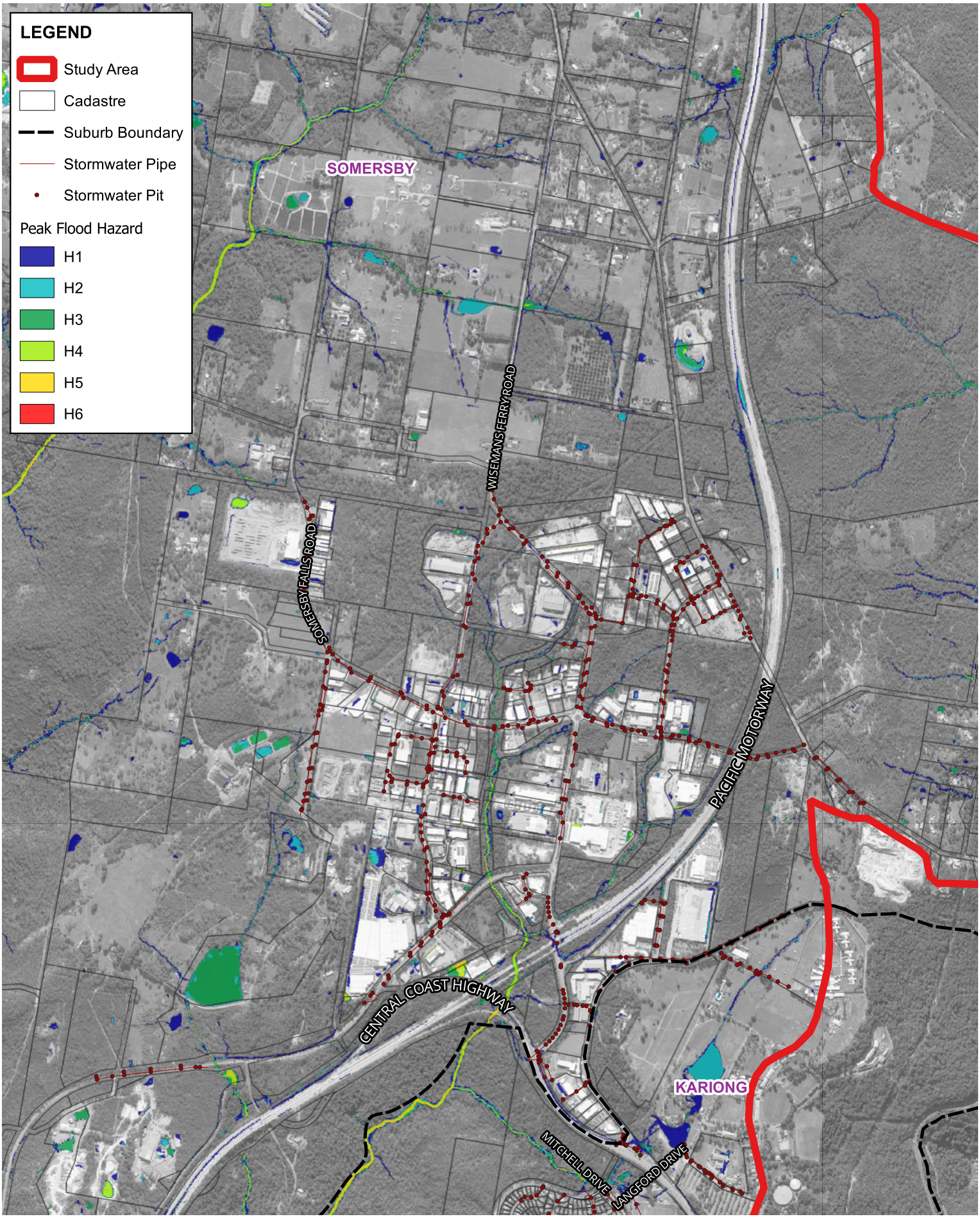


Title:

# Peak Flood Hazard - Somersby Industrial Area
# March 2022 Calibration Event Scenario

Figure: B-47

Rev: 0

Scale at A4 1:20000
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Scale:

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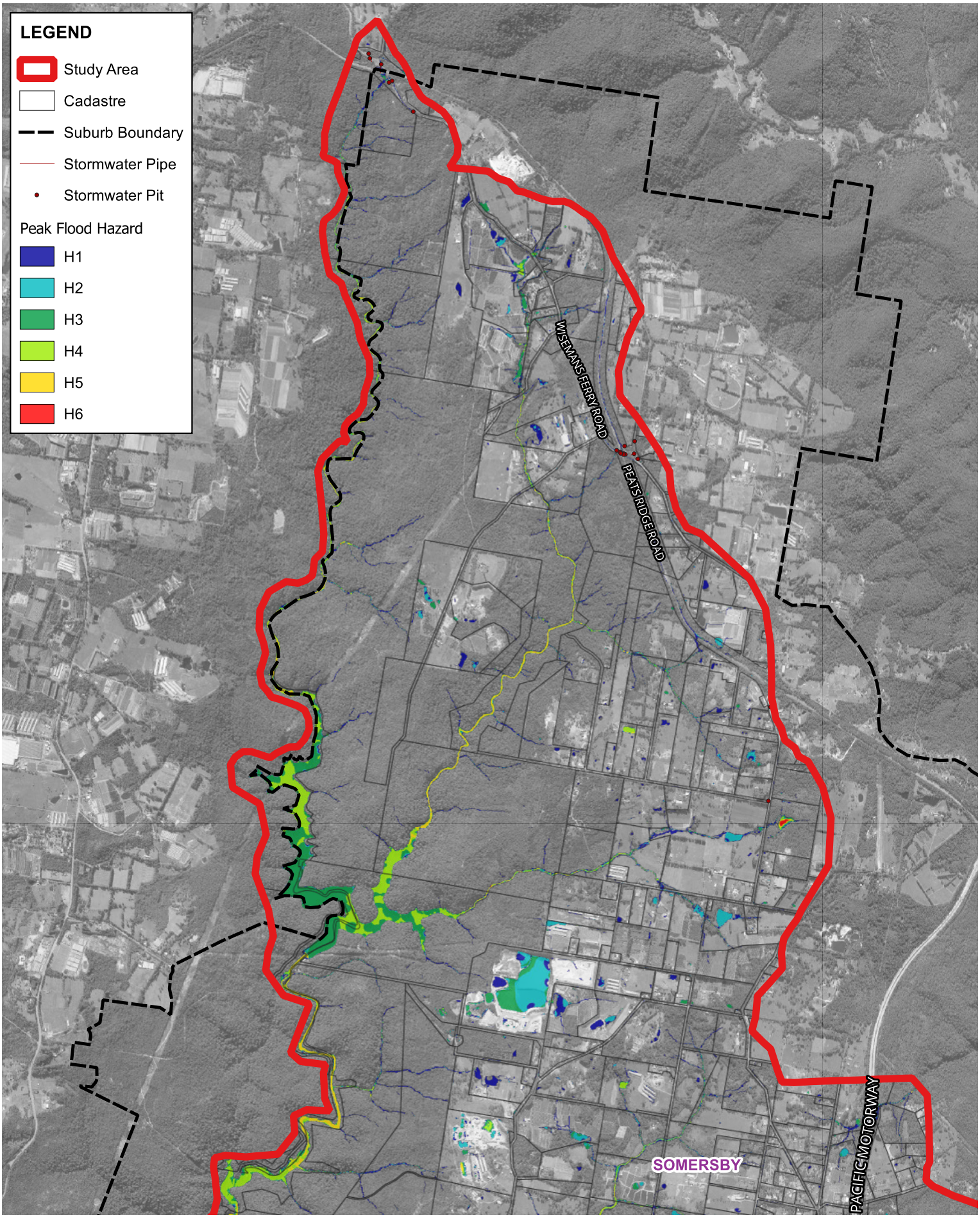


Title:

# Peak Flood Hazard - Northern Catchment March 2022 Calibration Event Scenario

Figure: B-48

Rev: 0

Scale at A4 1:40000

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Scale:

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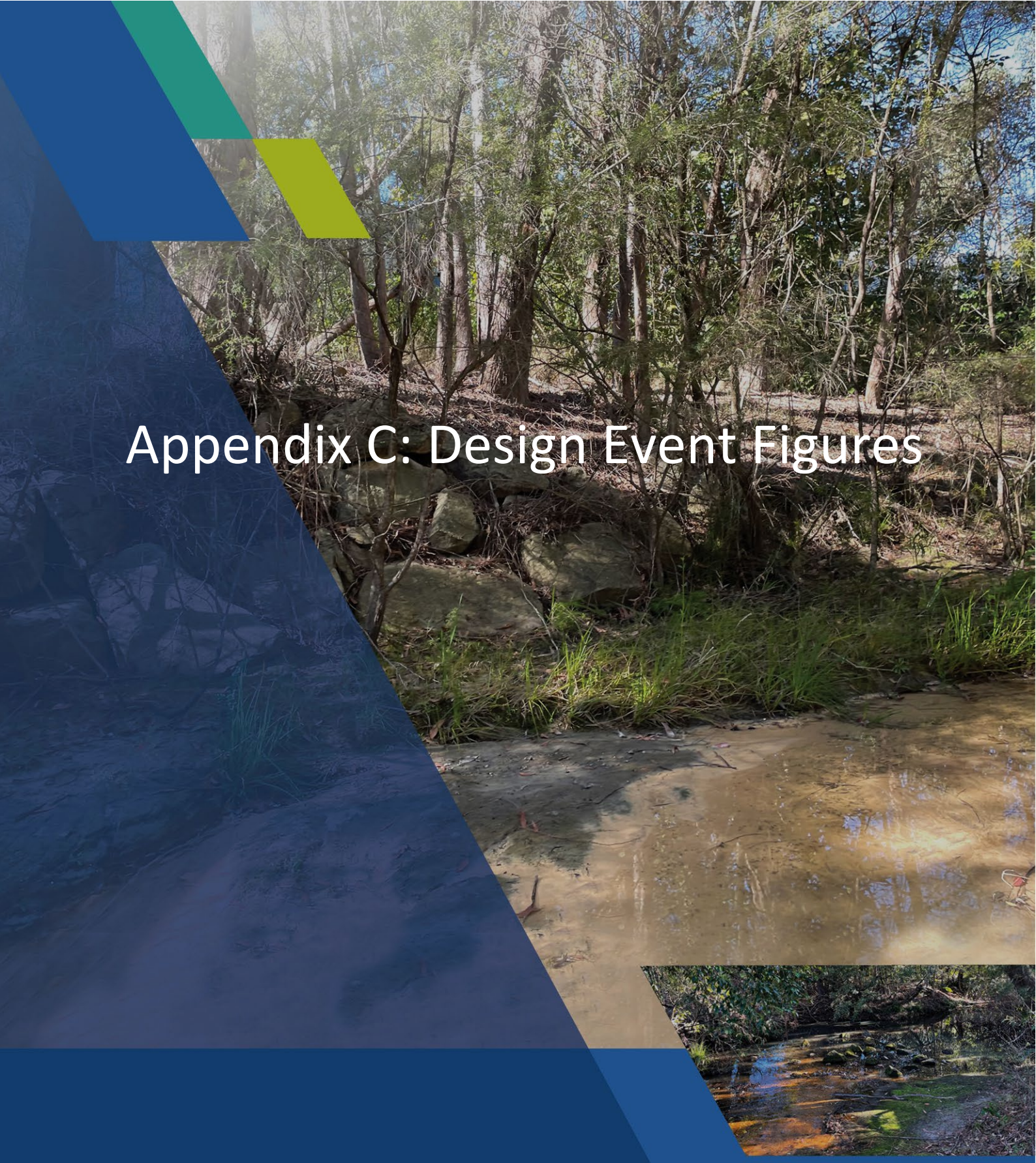
1:40,000

KBR

# Appendix C: Design Event Figures



# List of Figures

Figure C-0: Figure Extent Key
Figure C-1: Peak Flood Depth – Kariong Town, 20% AEP Design Event Scenario
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Figure C-87: Peak Flood Hazard – Northern Catchment, 1 in 100 AEP Design Event Scenario
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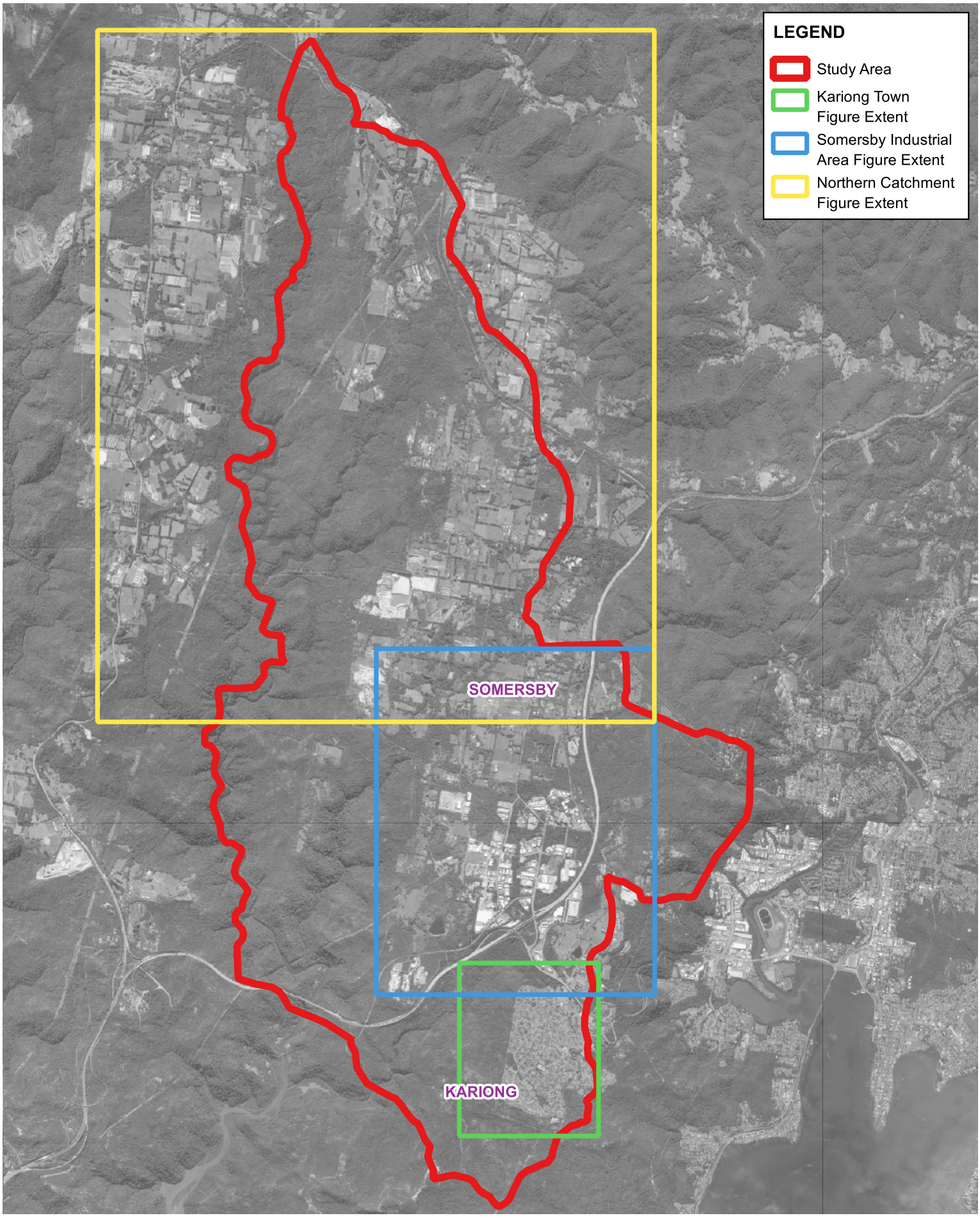
Figure C-107: Flood Function – Somersby Industrial Area, PMF Design Event Scenario
Figure C-108: Flood Function – Northern Catchment, PMF Design Event Scenario




Title:

# Figure Extent Key

Figure: C-0

Rev: 0

Scale at A4 1:70000

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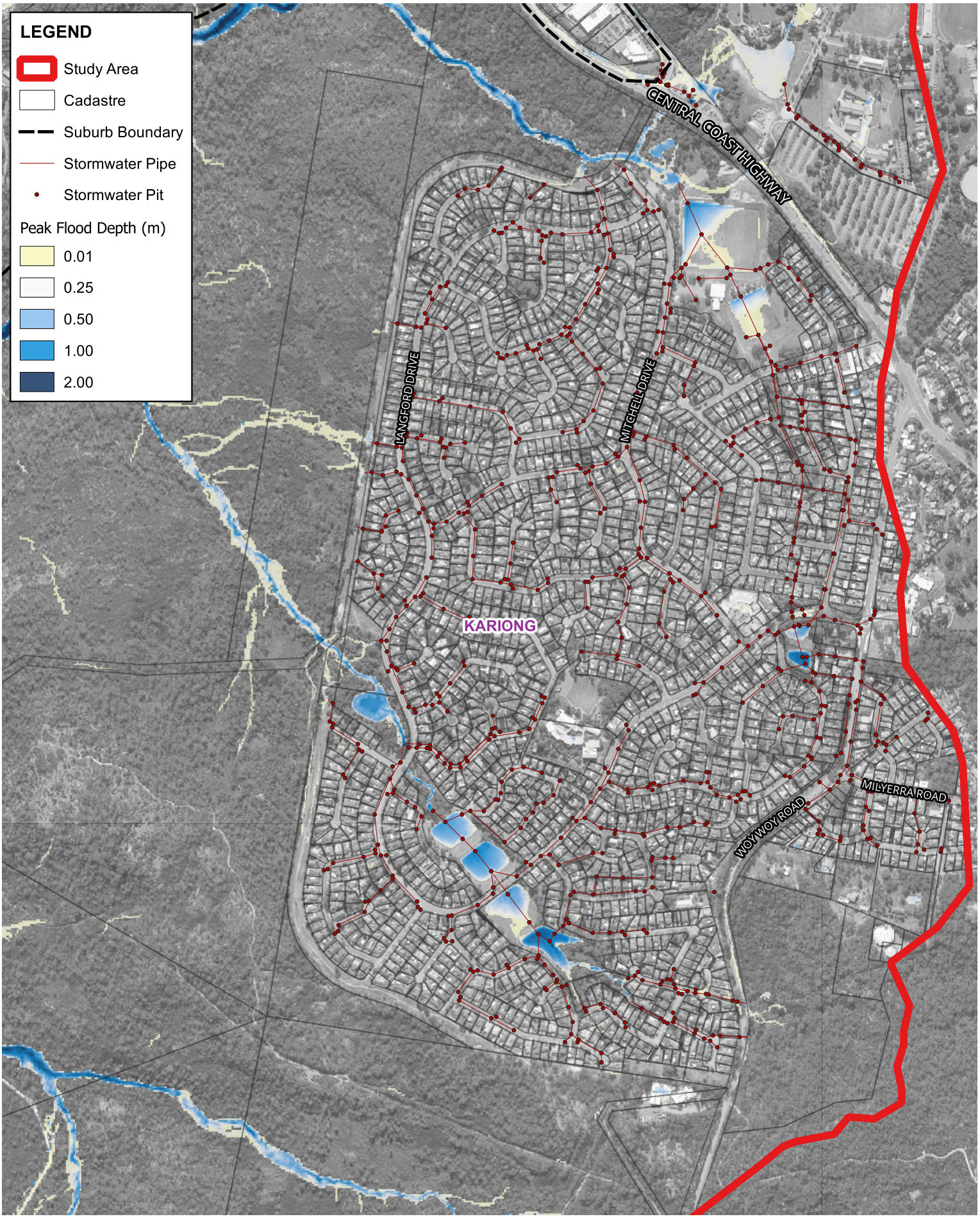
KBR




Title:

# Peak Flood Depth - Kariong Town
# 20% AEP Design Event Scenario

Figure: C-1

Rev: 0

Scale at A4 1:10000
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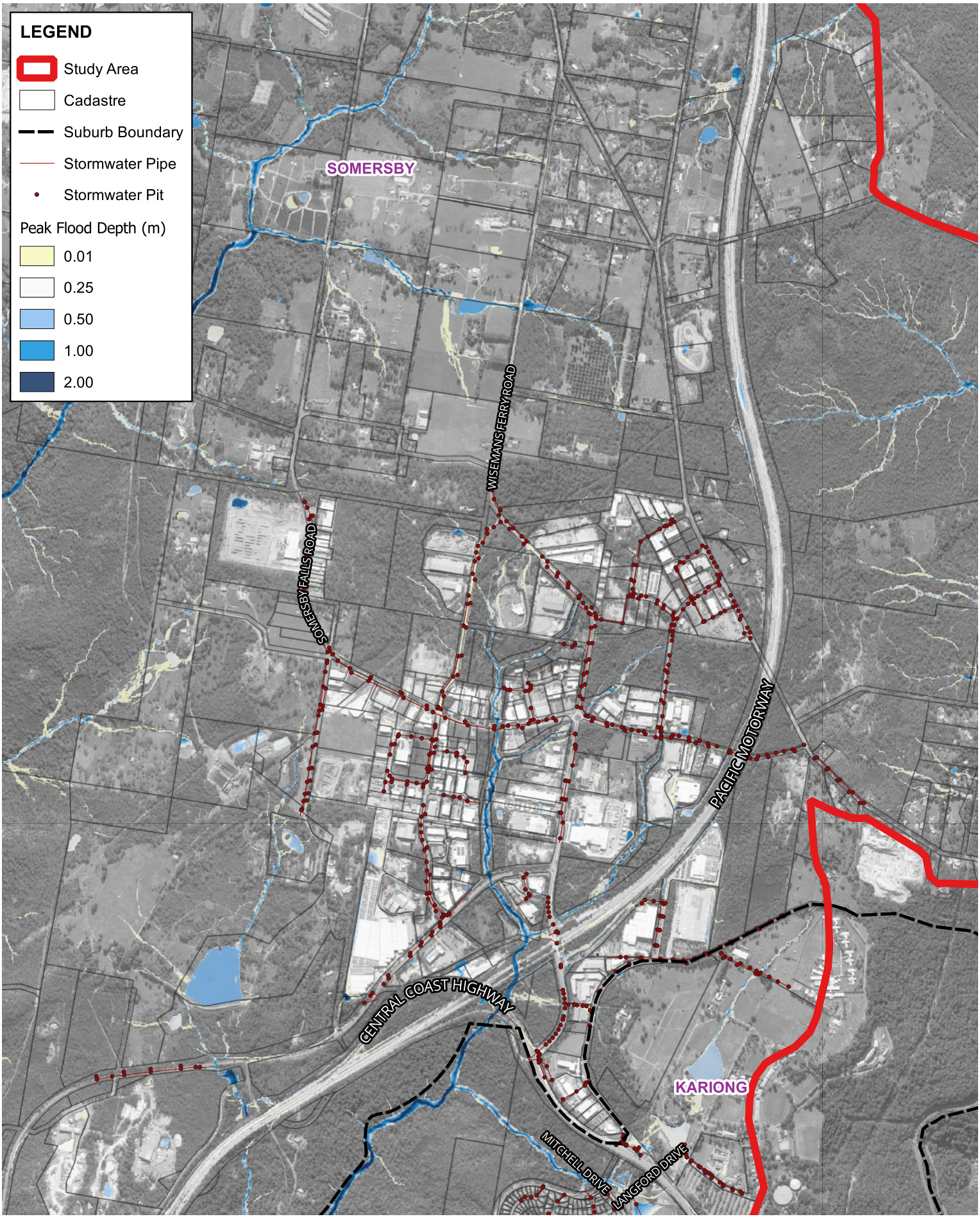


Title:

# Peak Flood Depth - Somersby Industrial Area
# 20% AEP Design Event Scenario

Figure: C-2

Rev: 0

Scale at A4 1:20000

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Scale:

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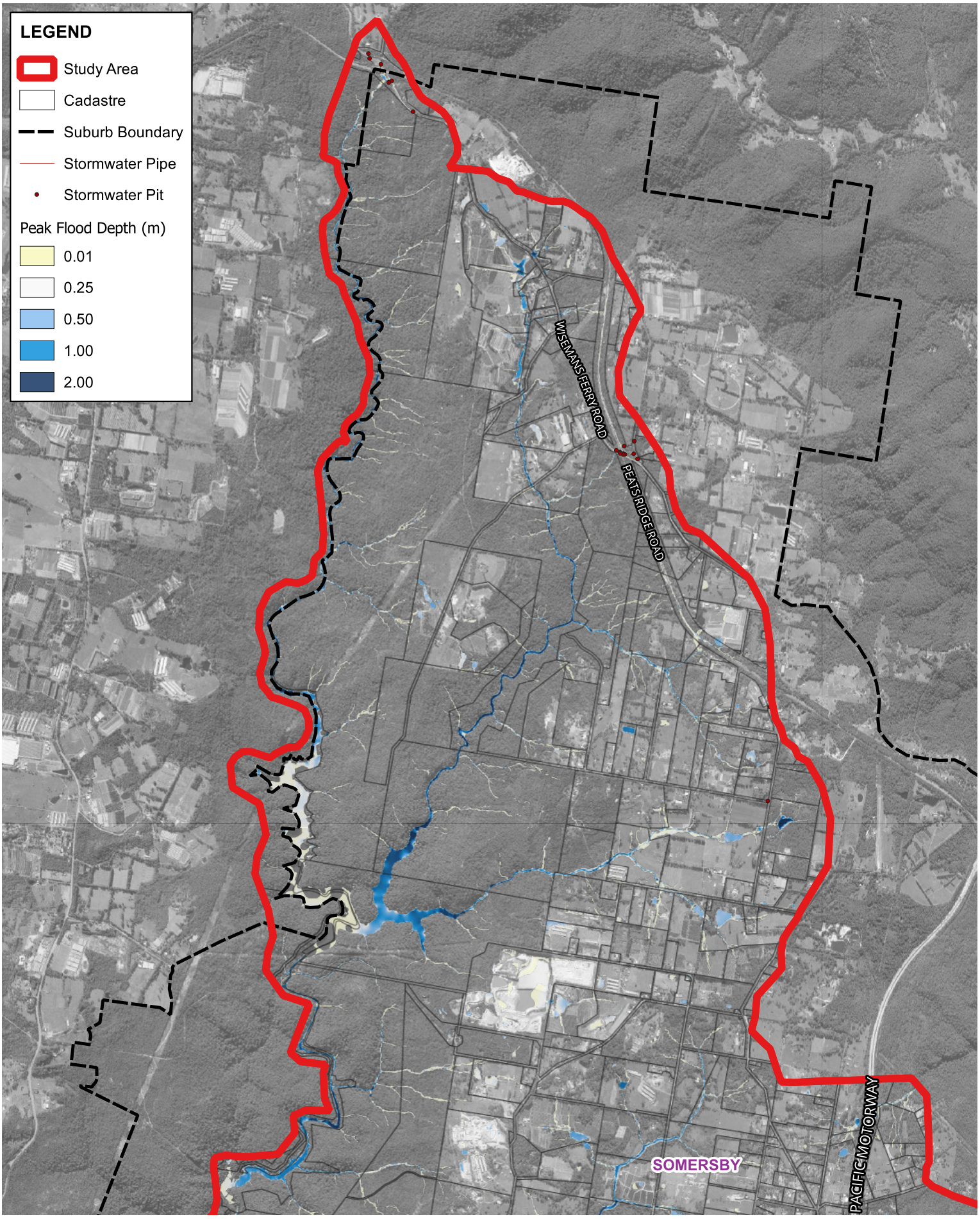
KBR




Title:

# Peak Flood Depth - Northern Catchment
# 20% AEP Design Event Scenario

Figure: C-3

Rev: 0

Scale at A4 1:40000

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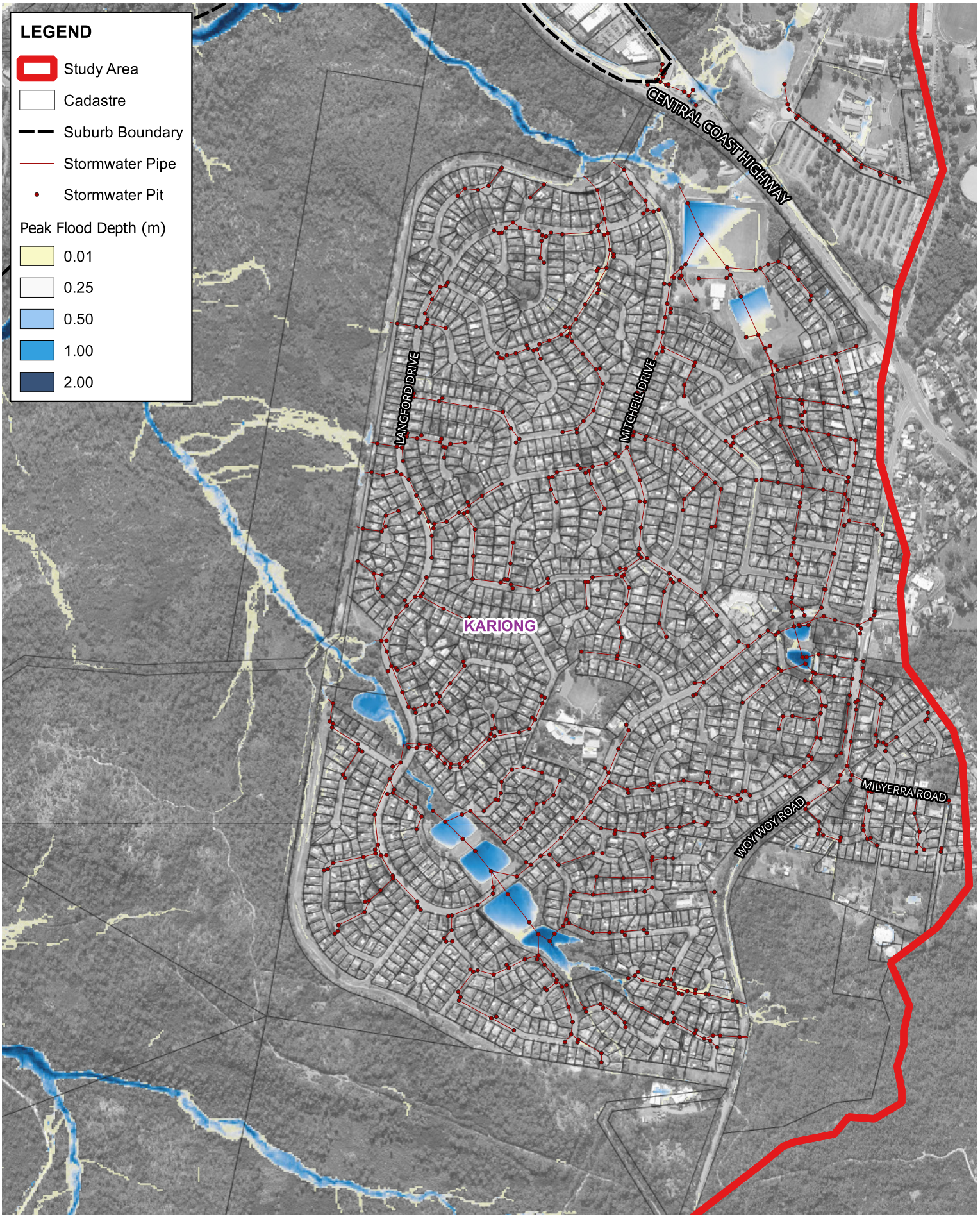


Title:

# Peak Flood Depth - Kariong Town
# 10% AEP Design Event Scenario

Figure: C-4

Rev: 0

Scale at A4 1:10000

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Scale:

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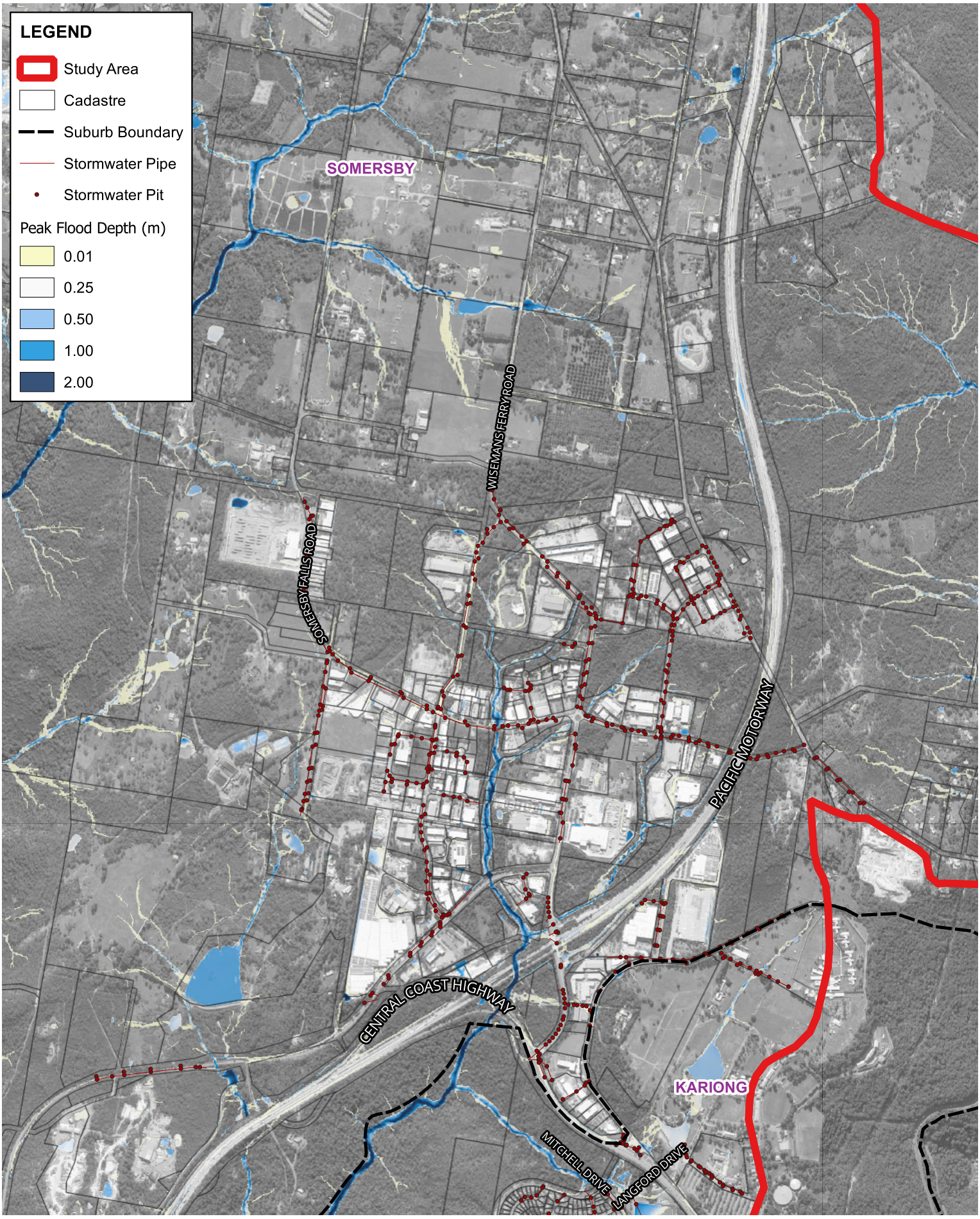
KBR




Title:

# Peak Flood Depth - Somersby Industrial Area
# 10% AEP Design Event Scenario

Figure: C-5

Rev: 0

Scale at A4 1:20000

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Scale:

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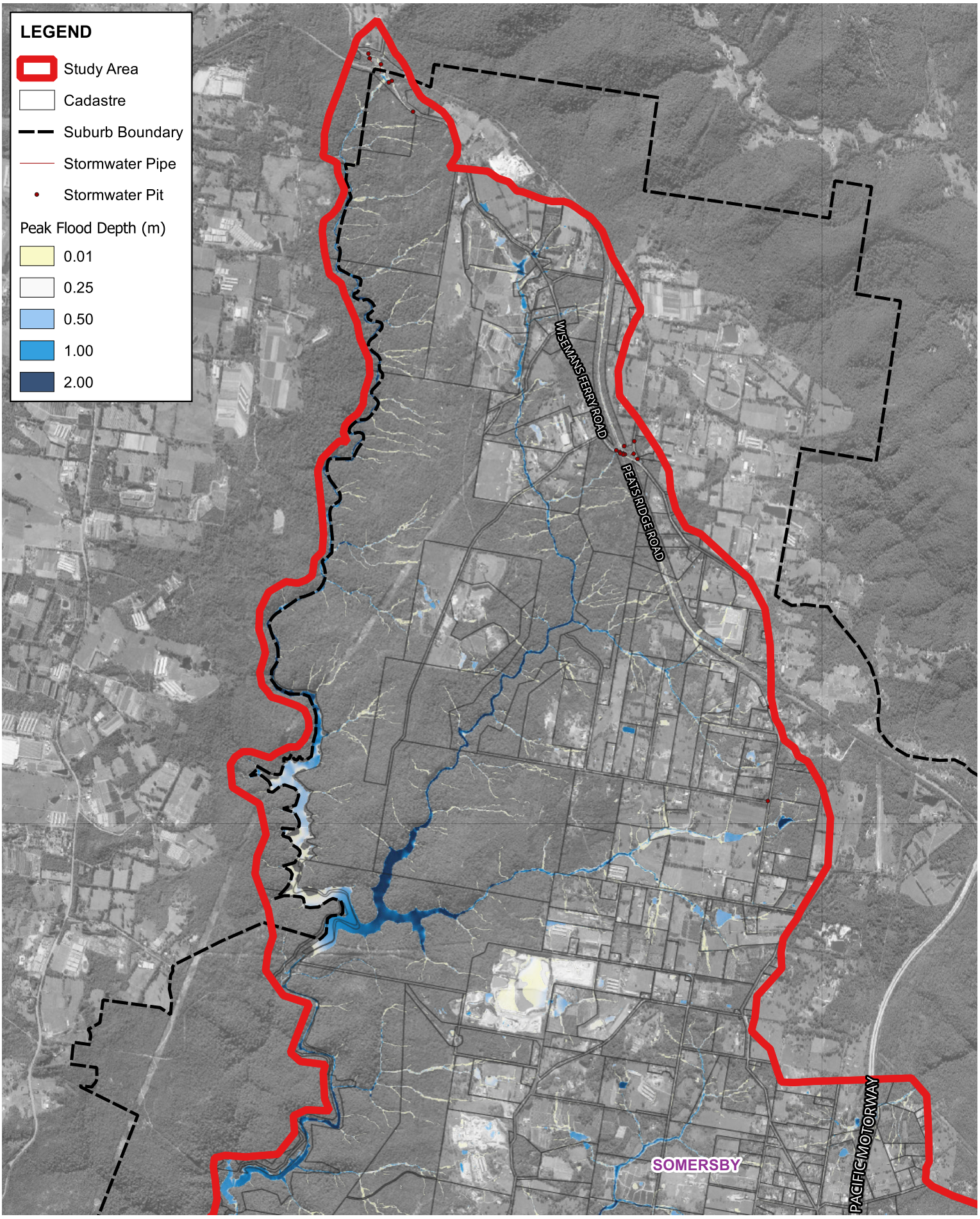
KBR




Title:

# Peak Flood Depth - Northern Catchment
# 10% AEP Design Event Scenario

Figure: C-6

Rev: 0

Scale at A4 1:40000

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Scale:

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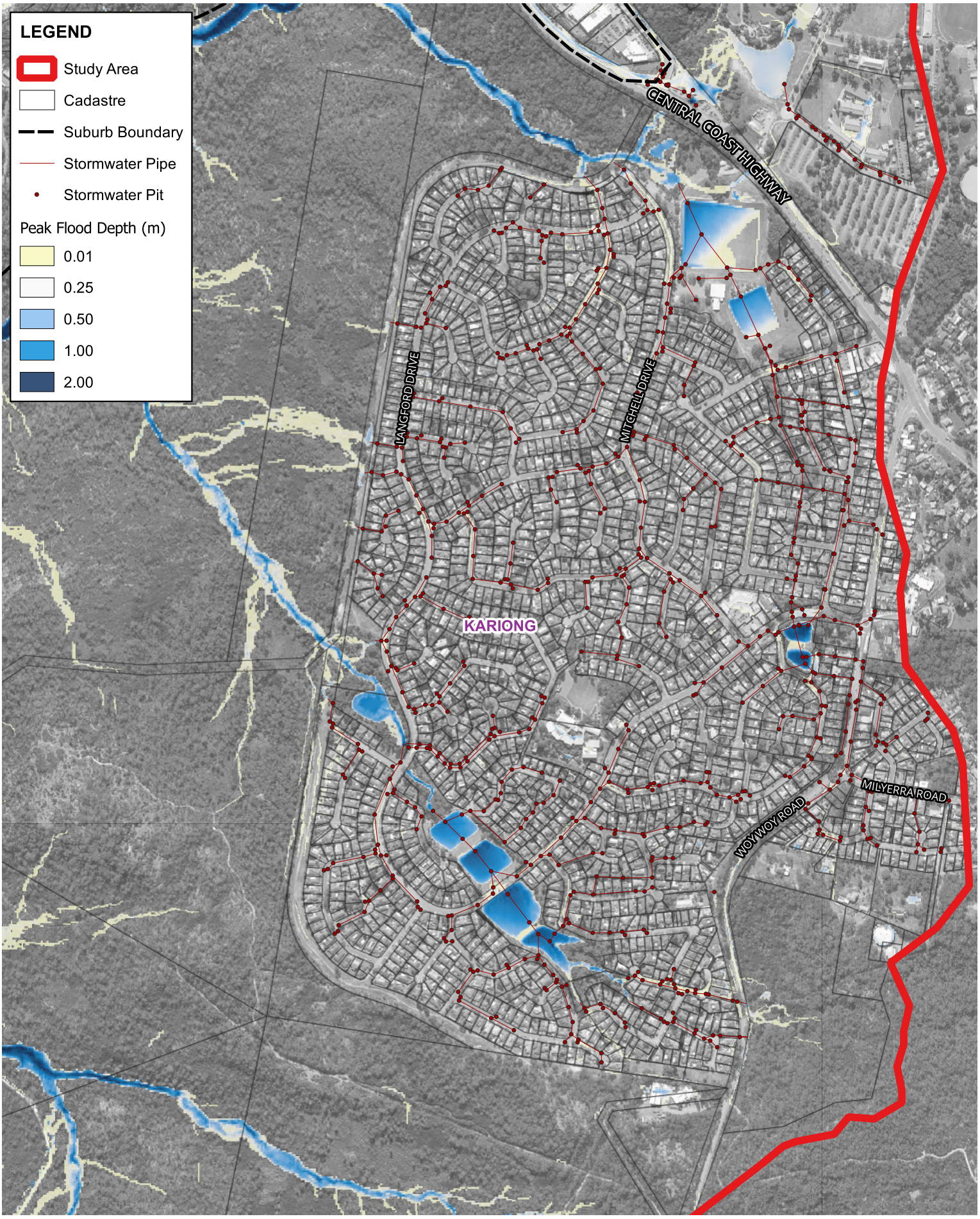


Title:

# Peak Flood Depth - Kariong Town
# 5% AEP Design Event Scenario

Figure: C-7

Rev: 0

Scale at A4 1:10000
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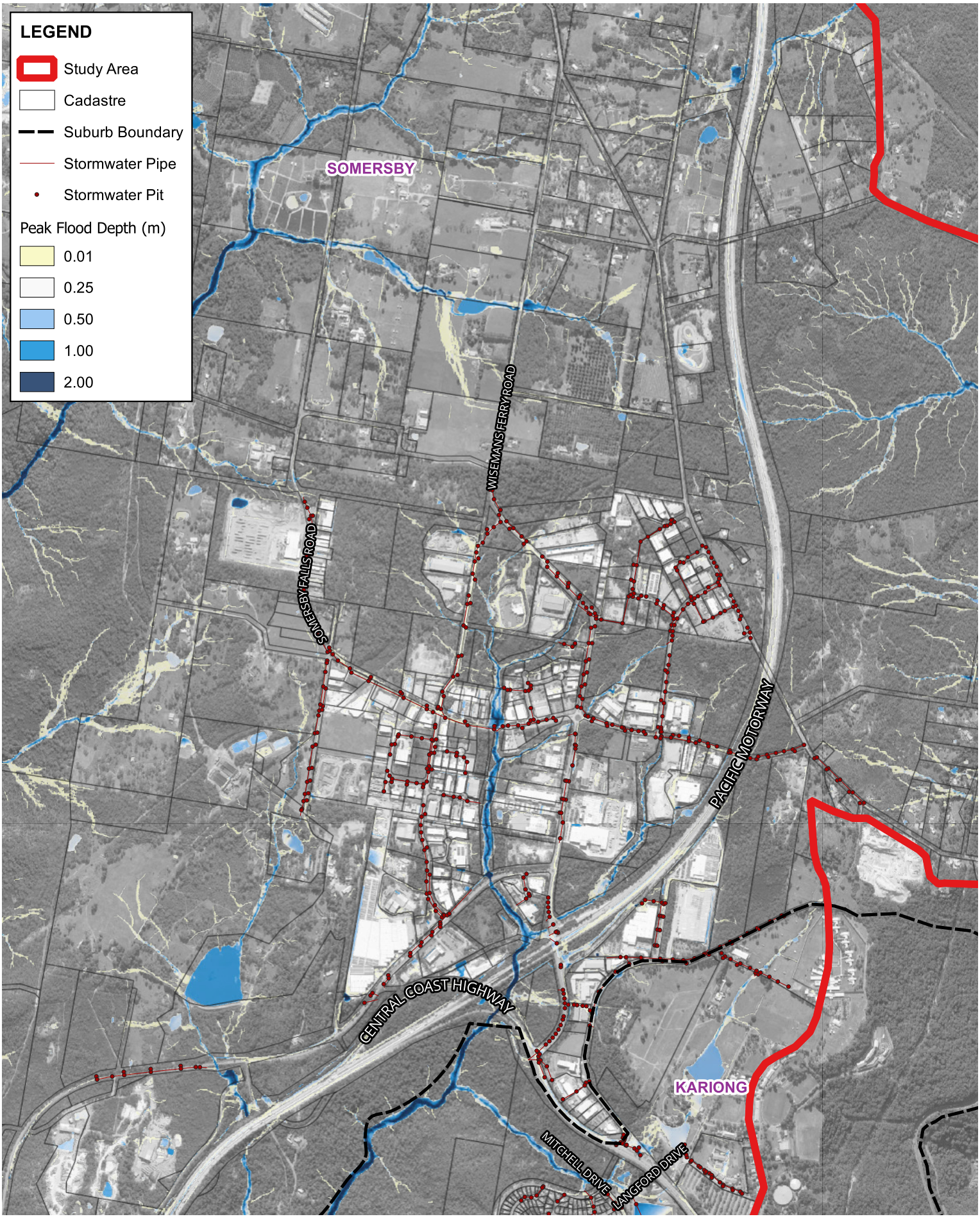


Title:

# Peak Flood Depth - Somersby Industrial Area
# 5% AEP Design Event Scenario

Figure: C-8

Rev: 0

Scale at A4 1:20000

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Scale:

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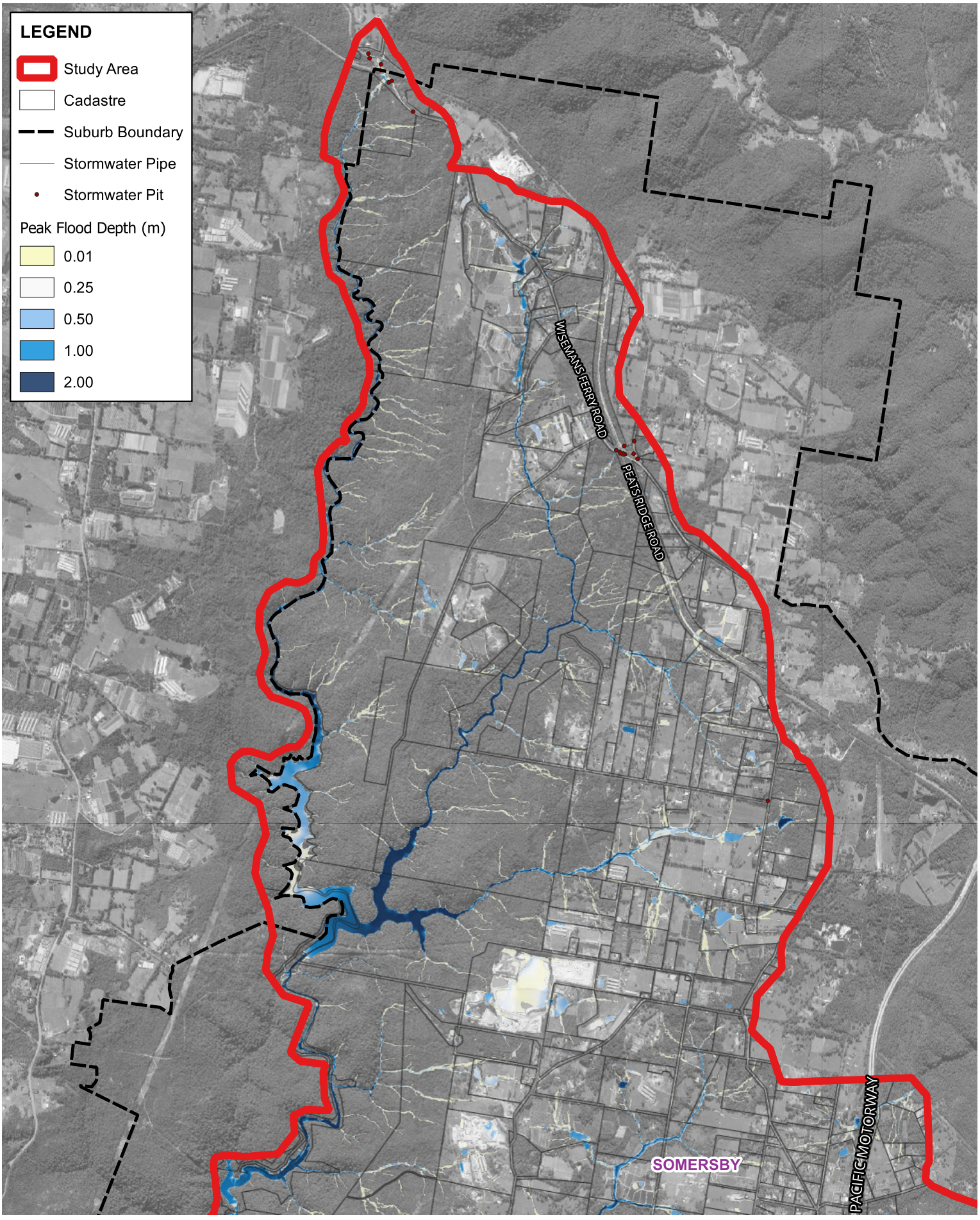


Title:

# Peak Flood Depth - Northern Catchment
# 5% AEP Design Event Scenario

Figure: C-9

Rev: 0

Scale at A4 1:40000

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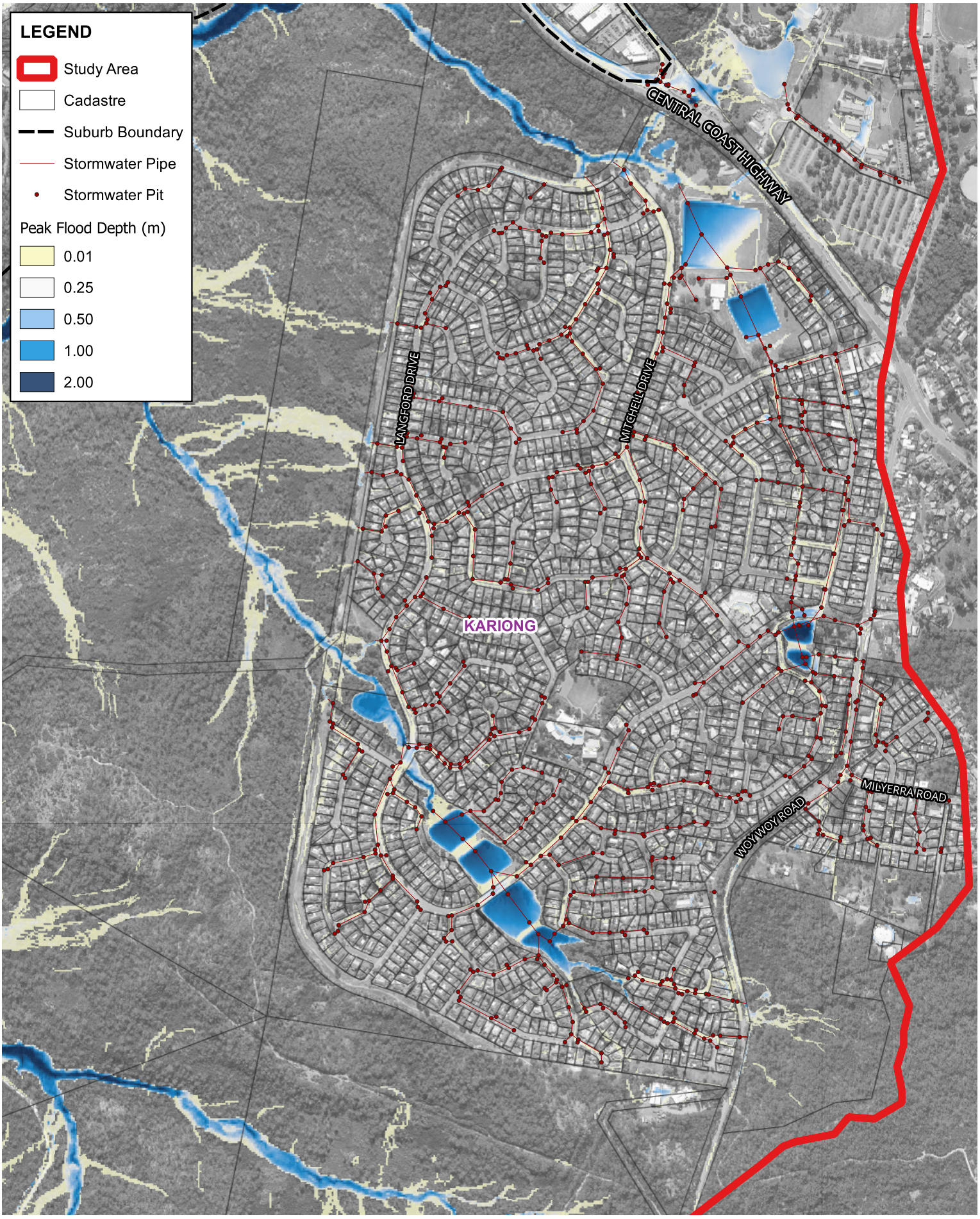


Title:

# Peak Flood Depth - Kariong Town
# 2% AEP Design Event Scenario

Figure: C-10

Rev: 0

Scale at A4 1:10000

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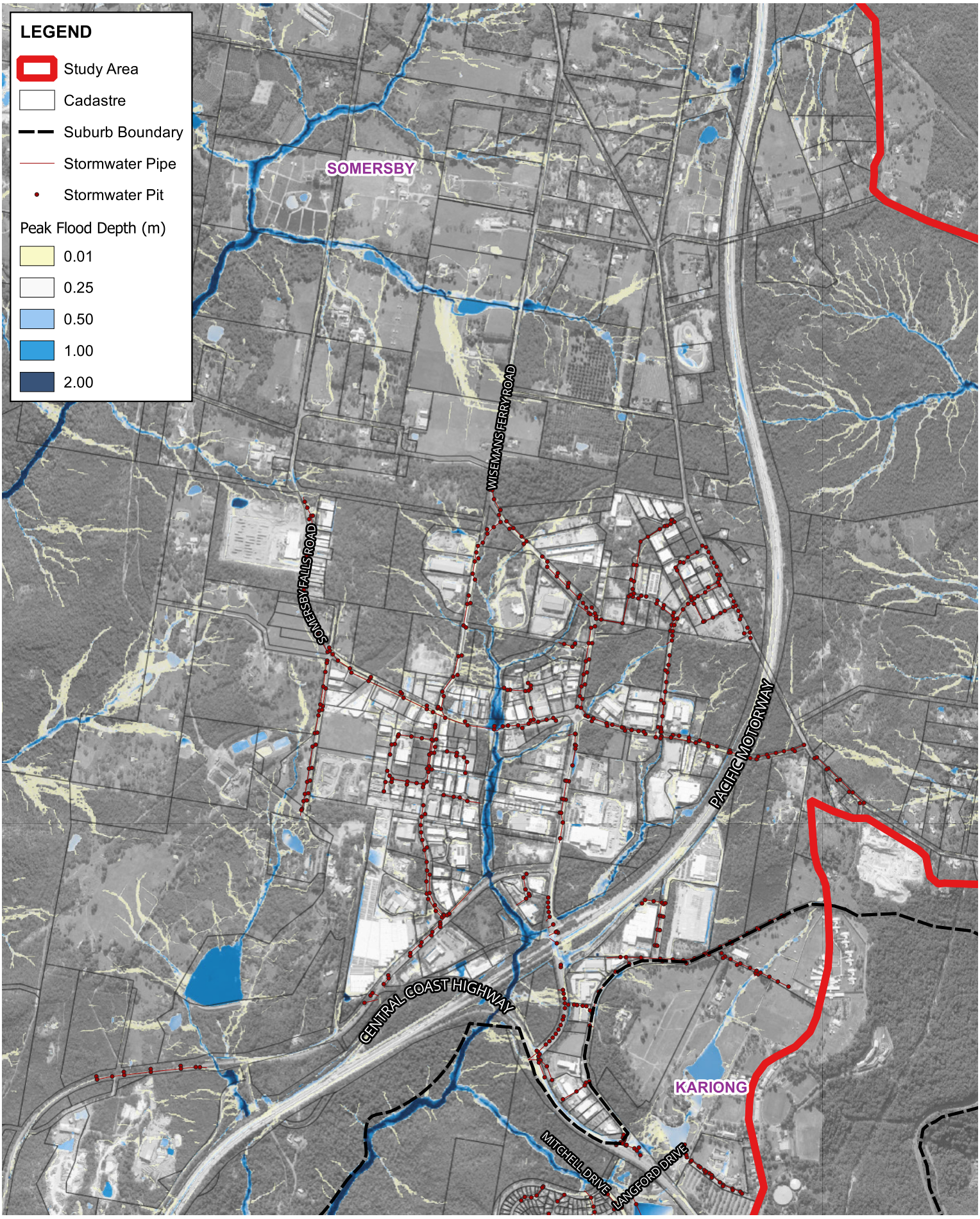


Title:

# Peak Flood Depth - Somersby Industrial Area
# 2% AEP Design Event Scenario

Figure: C-11

Rev: 0

Scale at A4 1:20000

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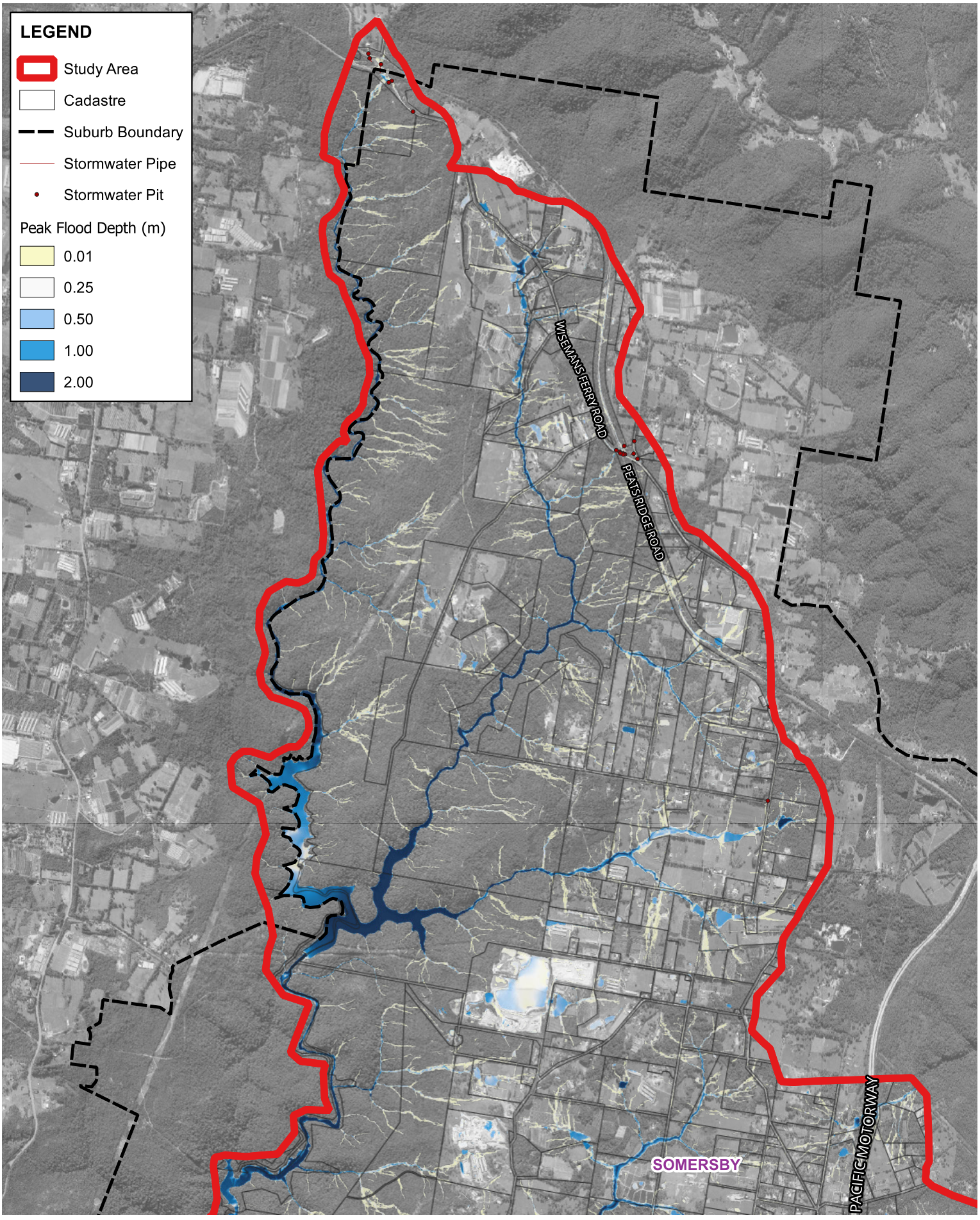


Title:

# Peak Flood Depth - Northern Catchment
# 2% AEP Design Event Scenario

Figure: C-12

Rev: 0

Scale at A4 1:40000

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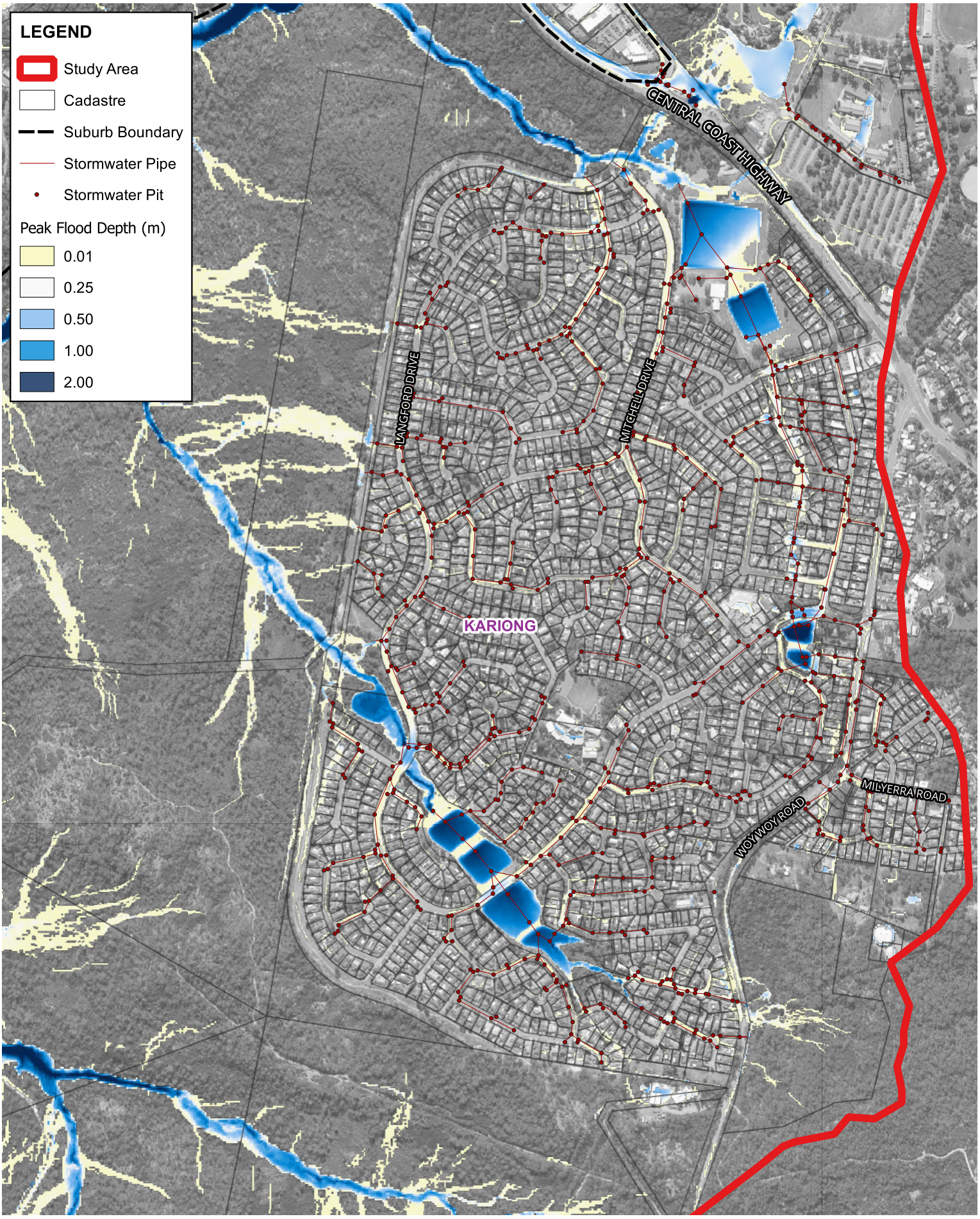
File: \\perfile001\data$\Water_Resources\Projects\SEW353_Kariong_Somersby_Flood_Study\G_GIS\Workspaces\Stage_Final_Draft\MS_Figures.qgz

Scale:

0 0.3 0.6 0.9 1.2 1.5 km

1:40,000

KBR




Title:

# Peak Flood Depth - Kariong Town
# 1 in 100 AEP Design Event Scenario

Figure: C-13

Rev: 0

Scale at A4 1:10000

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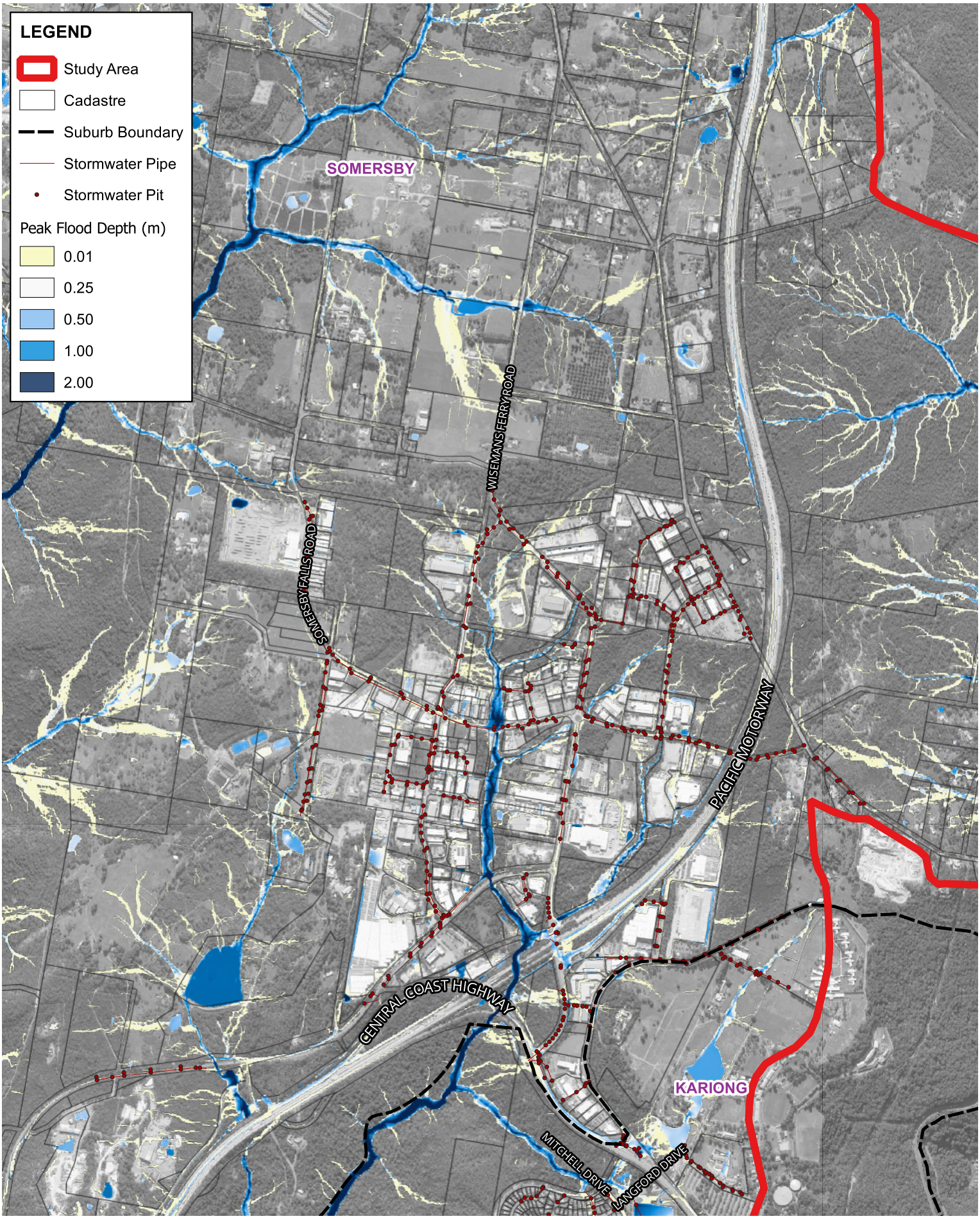
File: \\perfile001\data$\Water_Resources\Projects\SEW353_Kariong_Somersby_Flood_Study\G_GIS\Workspaces\Stage_Final_Draft\MS_Figures.qgz

Scale:

0 0.08 0.16 0.24 0.32 0.4 km

1:10,000




Title:

# Peak Flood Depth - Somersby Industrial Area
# 1 in 100 AEP Design Event Scenario

Figure: C-14

Rev: 0

Scale at A4 1:20000

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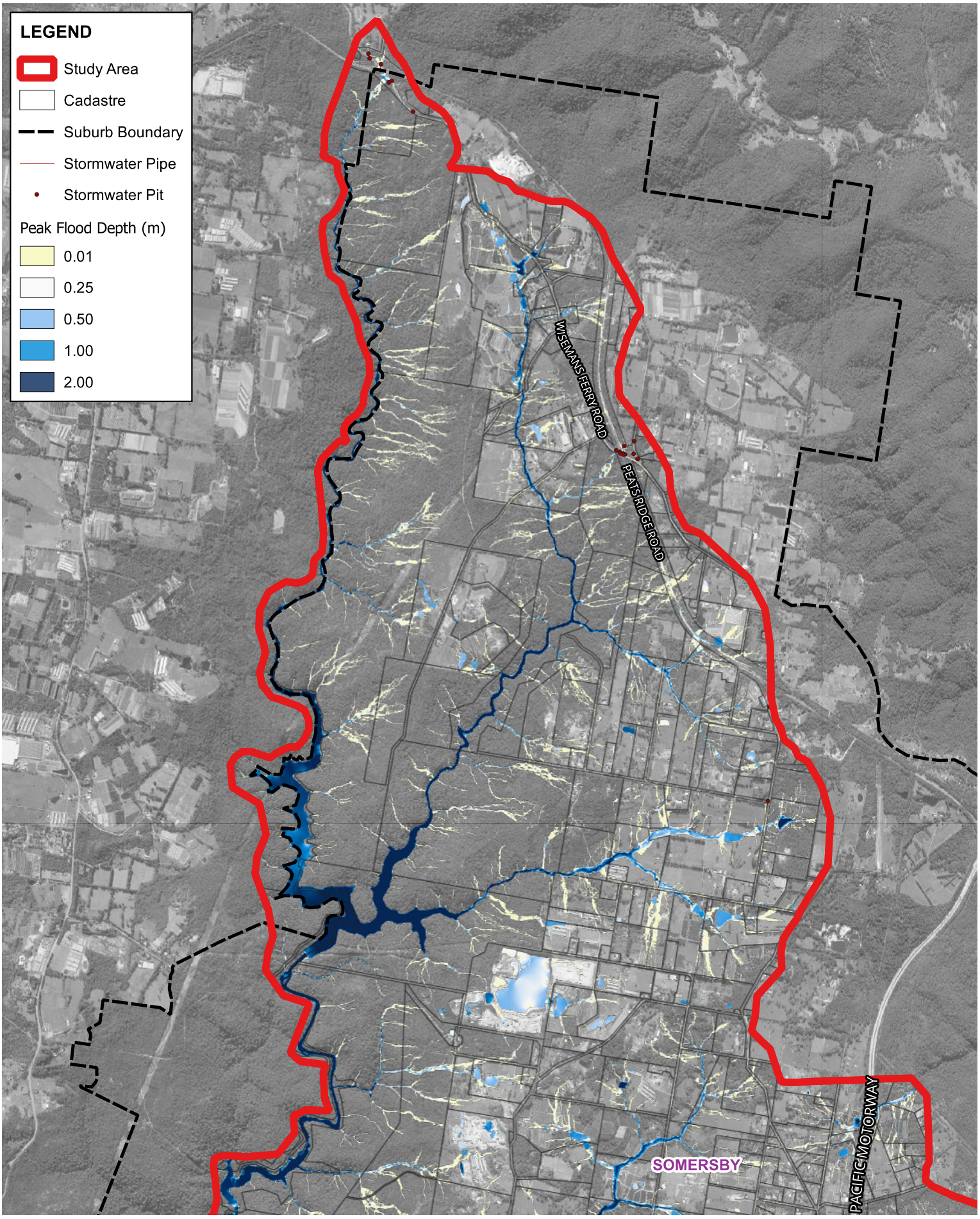
File: \\perfile001\data$\Water_Resources\Projects\SEW353_Kariong_Somersby_Flood_Study\G_GIS\Workspaces\Stage_Final_Draft\MS_Figures.qgz

Scale:

0 0.1 0.2 0.3 0.4 0.5 km

1:20,000

KBR




Title:

# Peak Flood Depth - Northern Catchment
# 1 in 100 AEP Design Event Scenario

Figure: C-15

Rev: 0

Scale at A4 1:40000

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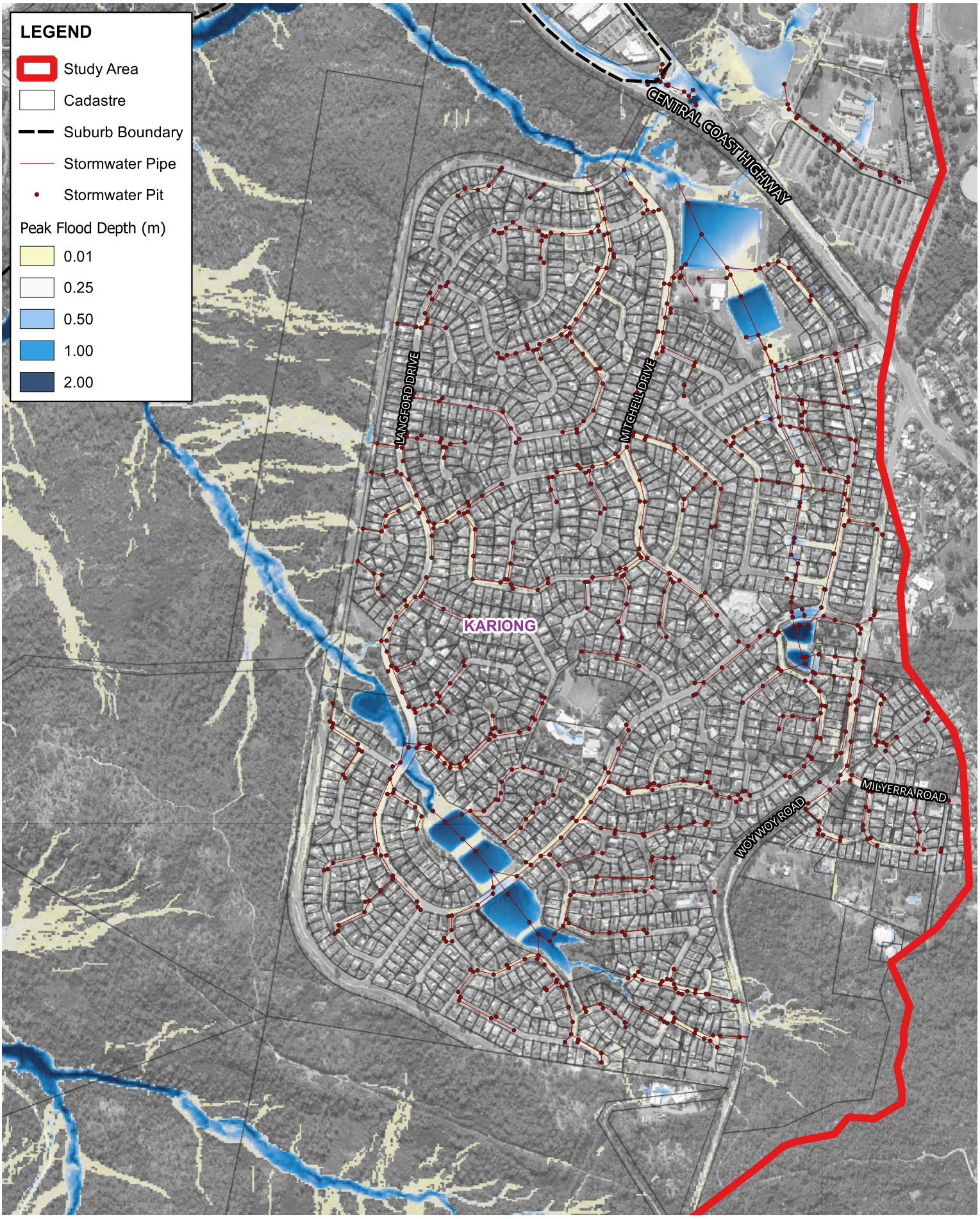
File: \\perfile001\data$\Water_Resources\Projects\SEW353_Kariong_Somersby_Flood_Study\G_GIS\Workspaces\Stage_Final_Draft\MS_Figures.qgz

Scale:

0 0.3 0.6 0.9 1.2 1.5 km

1:40,000

KBR




# Peak Flood Depth - Kariong Town
# 1 in 200 AEP Design Event Scenario

Figure: C-16

Rev: 0

Scale at A4 1:10000

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File: \\perfile001\data$\Water_Resources\Projects\SEW353_Kariong_Somersby_Flood_Study\G_GIS\Workspaces\Stage_Final_Draft\MS_Figures.qgz

Scale:

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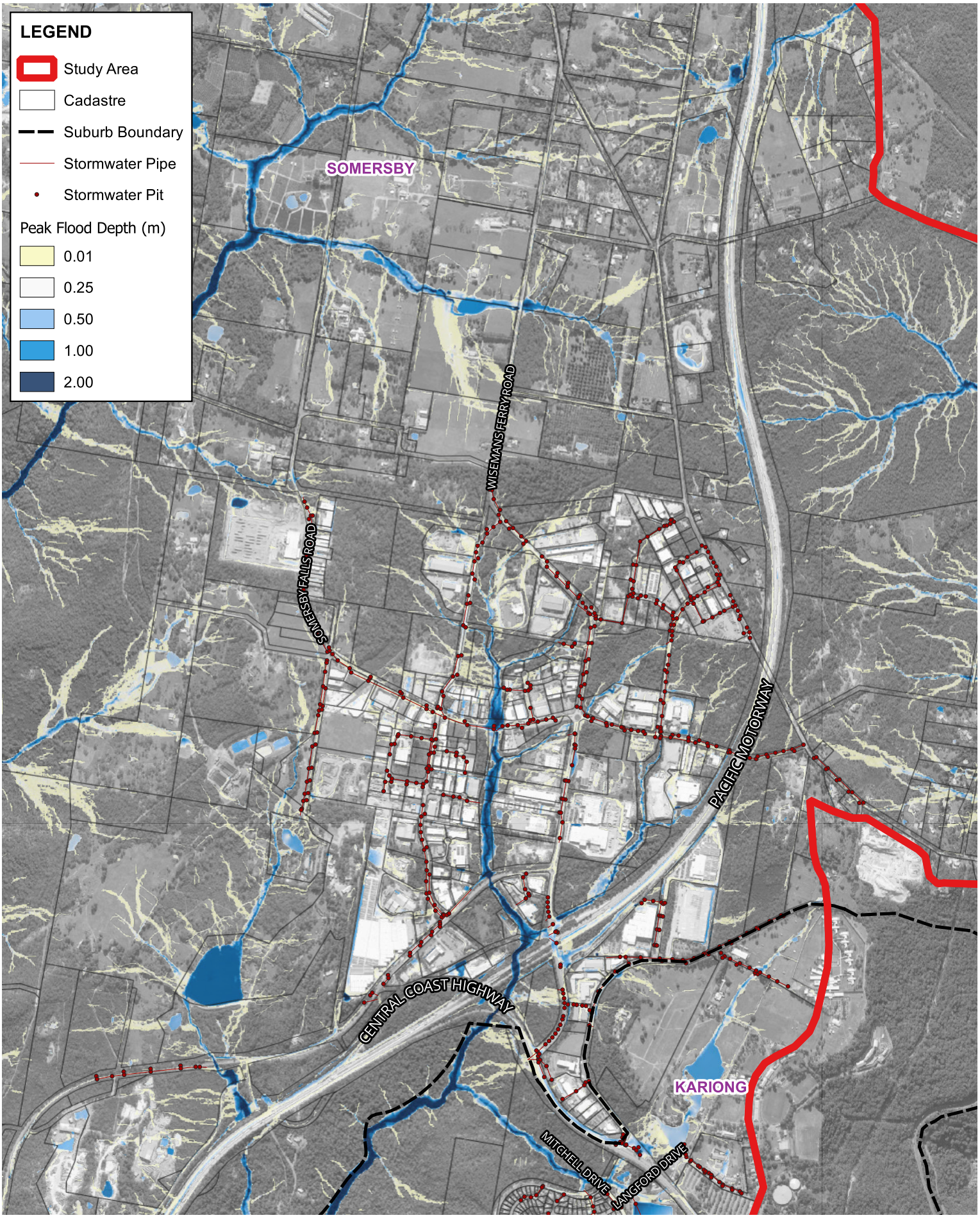
1:10,000




Title:

# Peak Flood Depth - Somersby Industrial Area
# 1 in 200 AEP Design Event Scenario

Figure: C-17

Rev: 0

Scale at A4 1:20000

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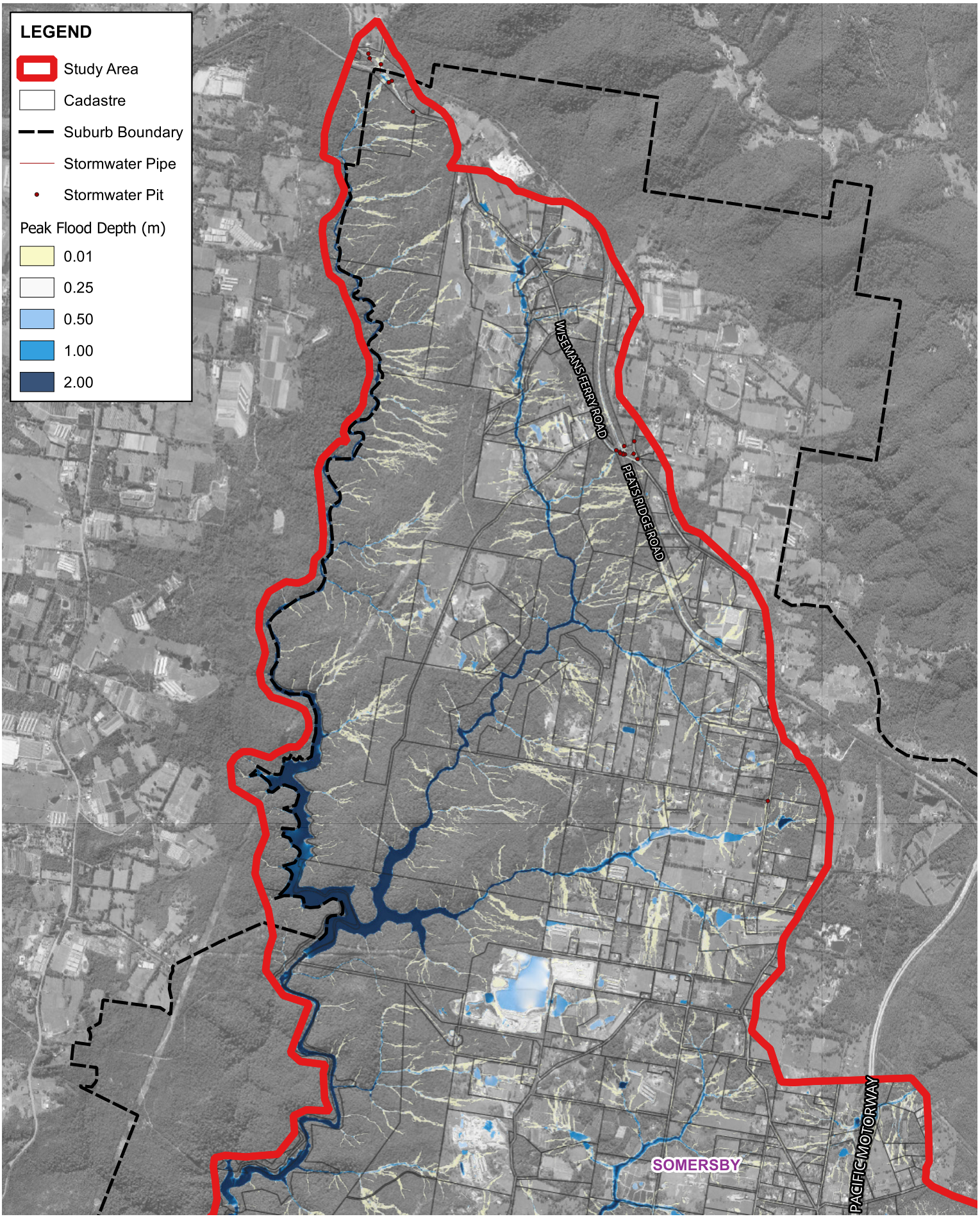
File: \\perfile001\data$\Water_Resources\Projects\SEW353_Kariong_Somersby_Flood_Study\G_GIS\Workspaces\Stage_Final_Draft\MS_Figures.qgz

Scale:

0 0.1 0.2 0.3 0.4 0.5 km

1:20,000

KBR




Title:

# Peak Flood Depth - Northern Catchment
# 1 in 200 AEP Design Event Scenario

Figure: C-18

Rev: 0

Scale at A4 1:40000

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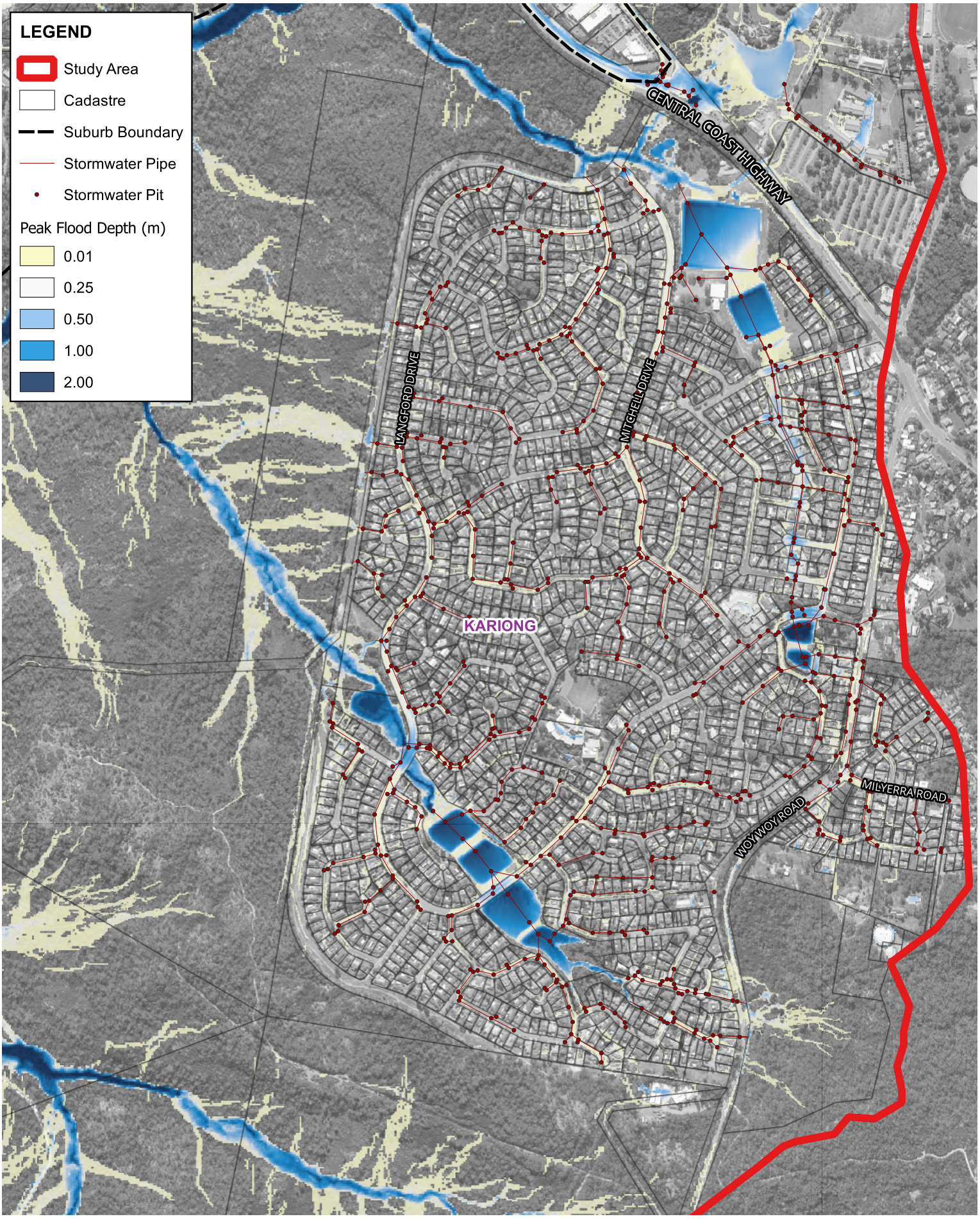
File: \\perfile001\data$\Water_Resources\Projects\SEW353_Kariong_Somersby_Flood_Study\G_GIS\Workspaces\Stage_Final_Draft\MS_Figures.qgz

Scale:

0 0.3 0.6 0.9 1.2 1.5 km

1:40,000

KBR




Title:

# Peak Flood Depth - Kariong Town
# 1 in 500 AEP Design Event Scenario

Figure: C-19

Rev: 0

Scale at A4 1:10000
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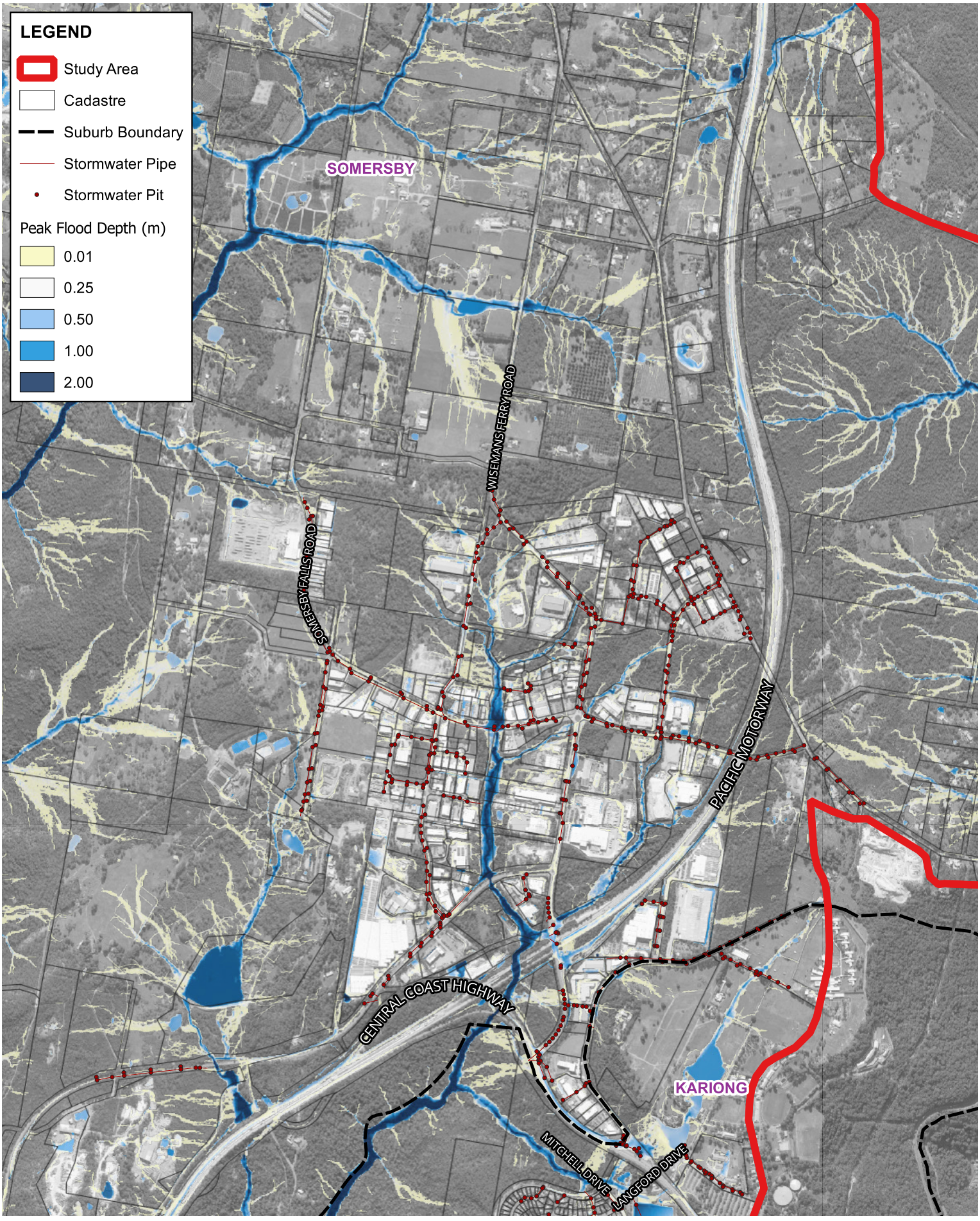
File: \\perfile001\data$\Water_Resources\Projects\SEW353_Kariong_Somersby_Flood_Study\G_GIS\Workspaces\Stage_Final_Draft\MS_Figures.qgz

Scale:

0 0.08 0.16 0.24 0.32 0.4 km

1:10,000

KBR




Title:

# Peak Flood Depth - Somersby Industrial Area
# 1 in 500 AEP Design Event Scenario

Figure: C-20

Rev: 0

Scale at A4 1:20000

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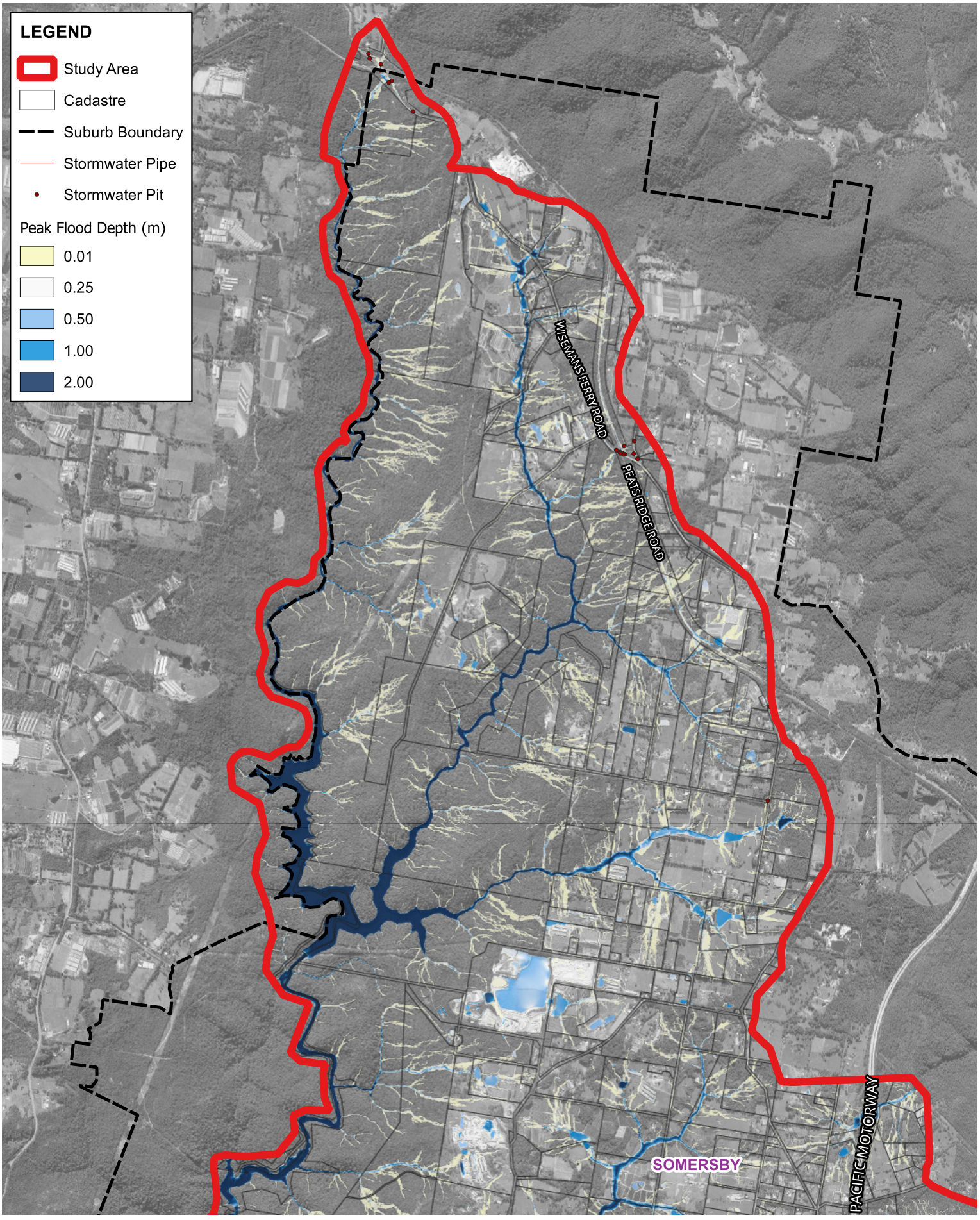
File: \\perfile001\data$\Water_Resources\Projects\SEW353_Kariong_Somersby_Flood_Study\G_GIS\Workspaces\Stage_Final_Draft\MS_Figures.qgz

Scale:

0 0.1 0.2 0.3 0.4 0.5 km

1:20,000

KBR




Title:

# Peak Flood Depth - Northern Catchment
# 1 in 500 AEP Design Event Scenario

Figure: C-21

Rev: 0

Scale at A4 1:40000

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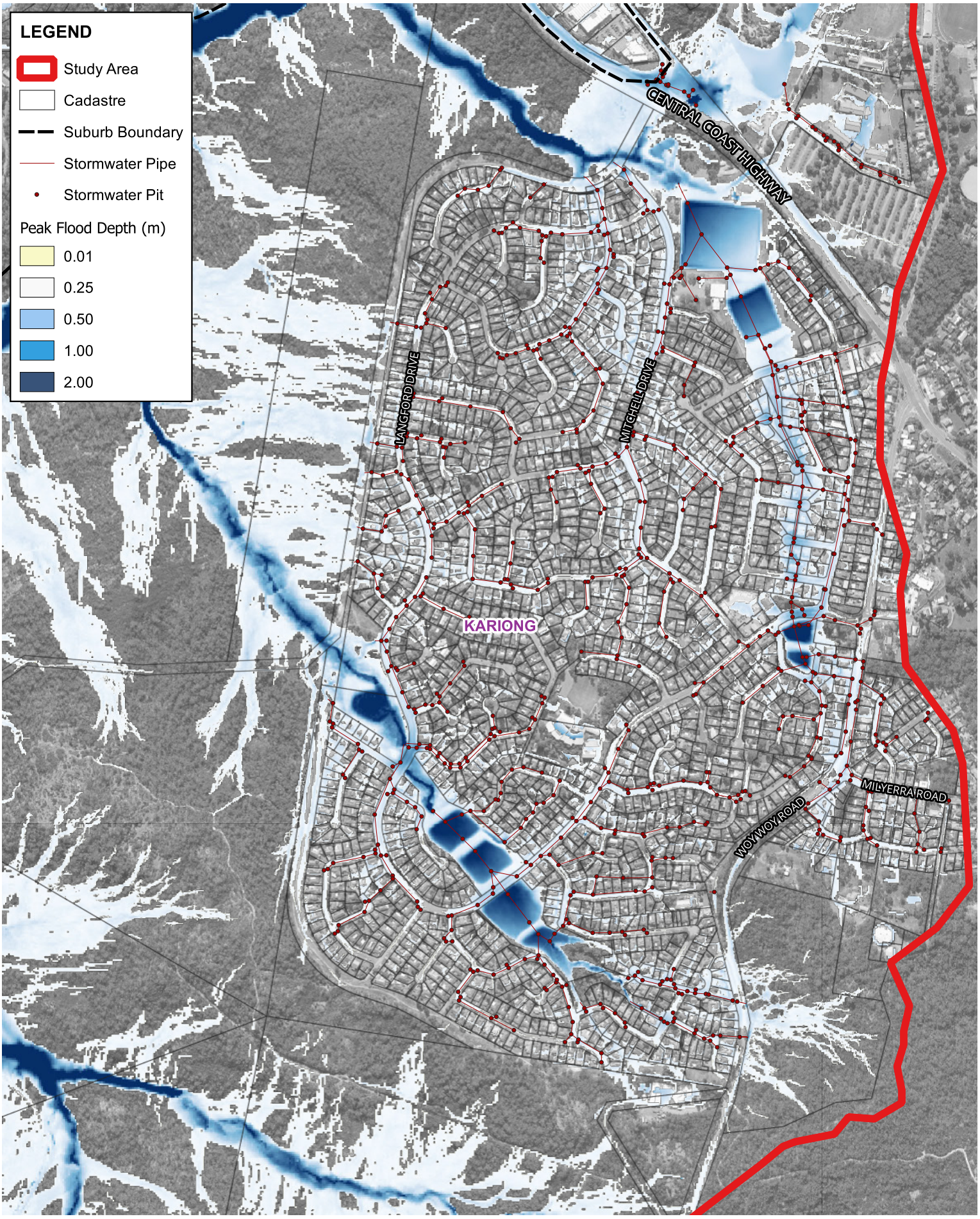
File: \\perfile001\data$\Water_Resources\Projects\SEW353_Kariong_Somersby_Flood_Study\G_GIS\Workspaces\Stage_Final_Draft\MS_Figures.qgz

Scale:

0 0.3 0.6 0.9 1.2 1.5 km

1:40,000

KBR




Title:

# Peak Flood Depth - Kariong Town
# PMF Design Event Scenario

Figure: C-22

Rev: 0

Scale at A4 1:10000

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Scale:

0 0.08 0.16 0.24 0.32 0.4 km

1:10,000

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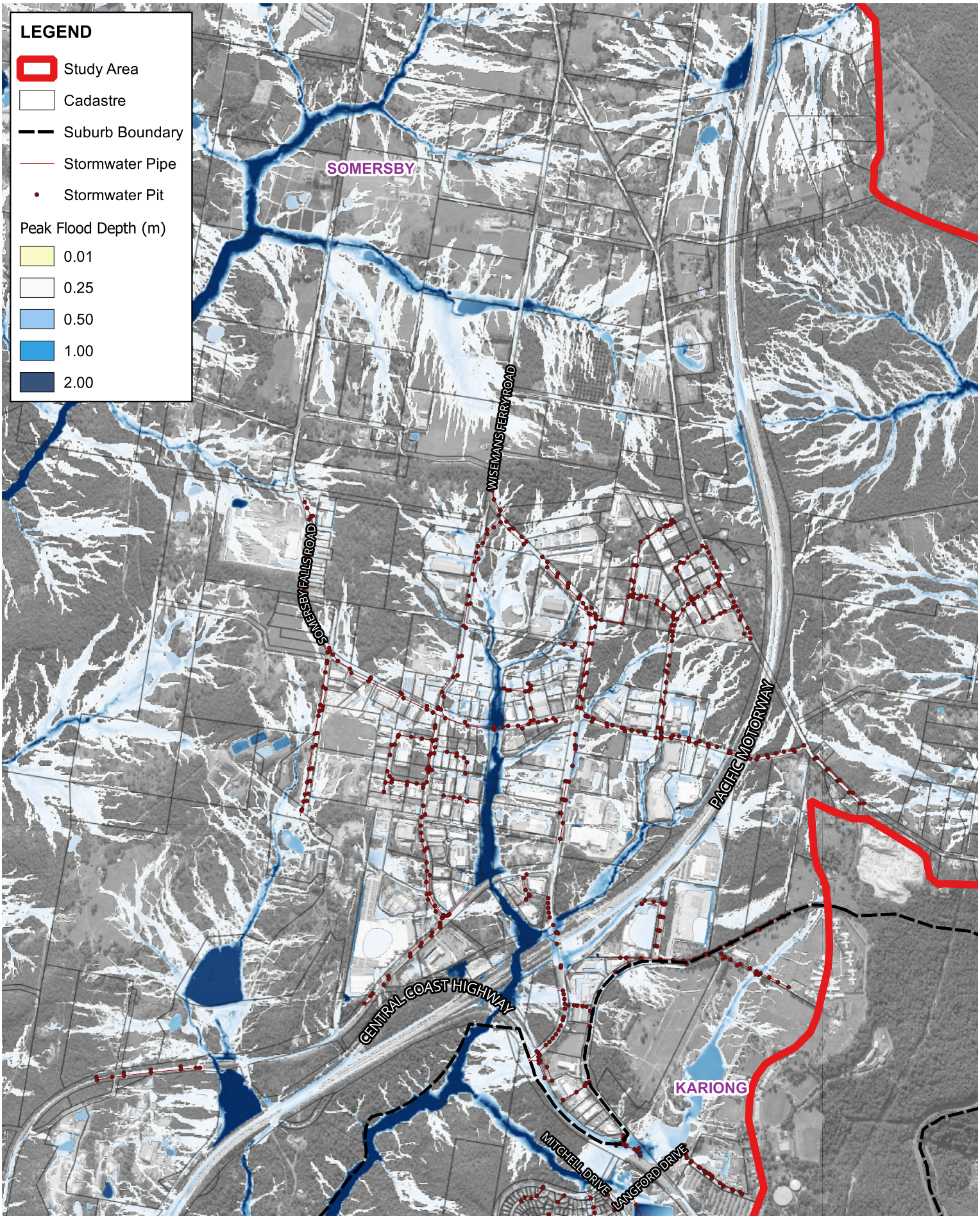


Title:

# Peak Flood Depth - Somersby Industrial Area
# PMF Design Event Scenario

Figure: C-23

Rev: 0

Scale at A4 1:20000

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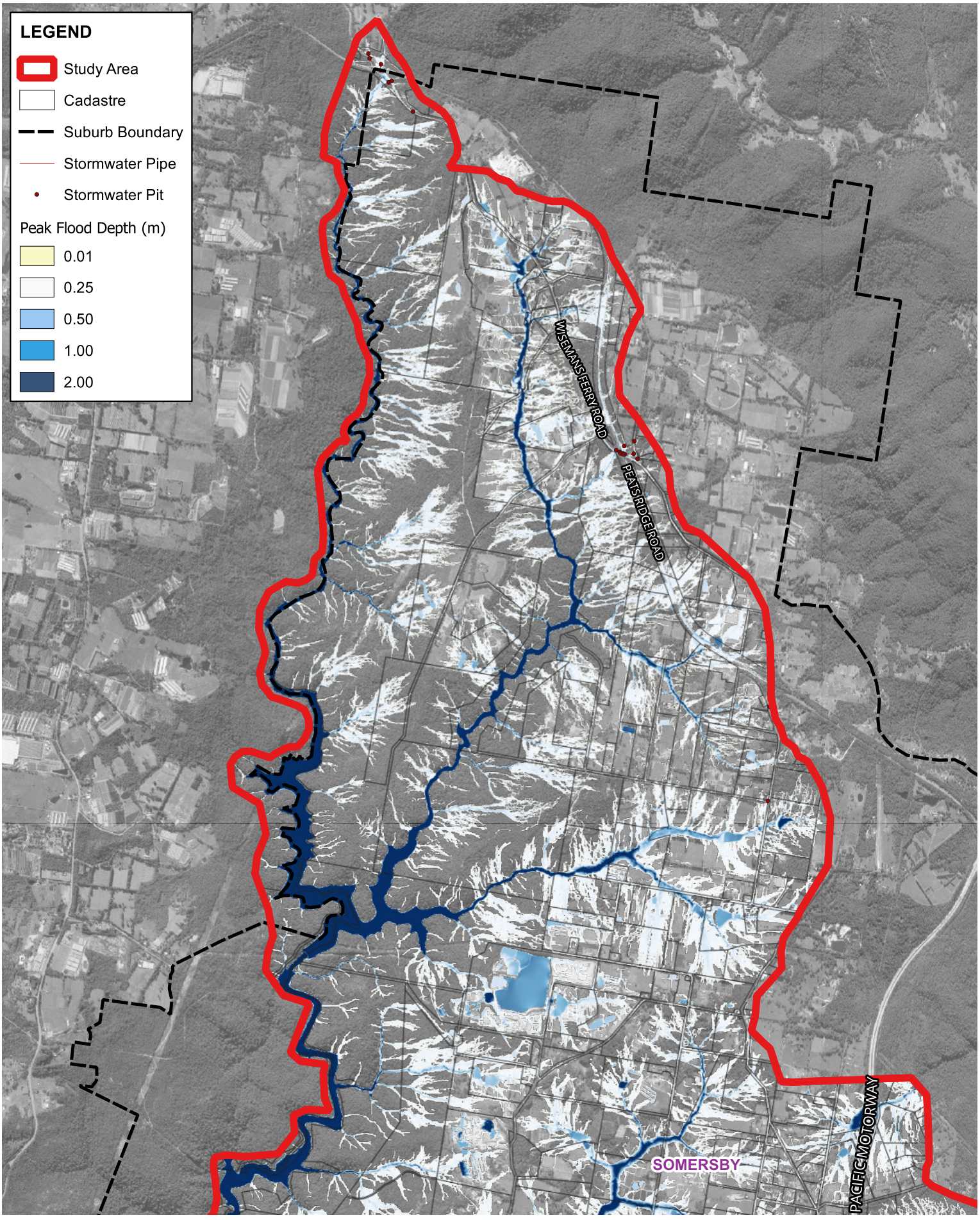
File: \\perfile001\data$\Water_Resources\Projects\SEW353_Kariong_Somersby_Flood_Study\G_GIS\Workspaces\Stage_Final_Draft\MS_Figures.qgz

Scale:

0 0.1 0.2 0.3 0.4 0.5 km

1:20,000

KBR




Title:

# Peak Flood Depth - Northern Catchment PMF Design Event Scenario

Figure: C-24

Rev: 0

Scale at A4 1:40000

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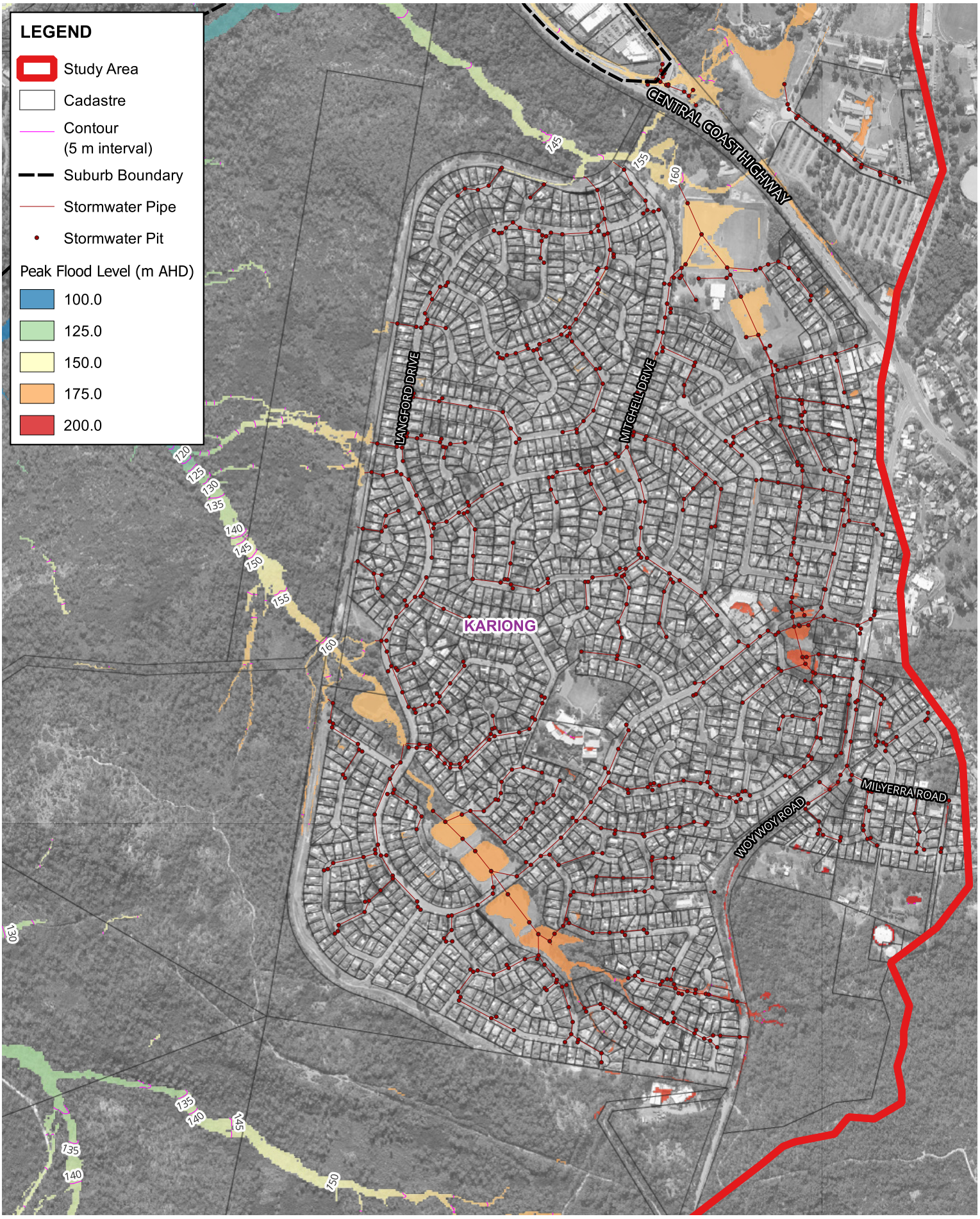
Scale:

0 0.3 0.6 0.9 1.2 1.5 km

1:40,000

KBR




Title:

# Peak Flood Level - Kariong Town
# 20% AEP Design Event Scenario

Figure: C-25

Rev: 0

Scale at A4 1:10000
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Scale:

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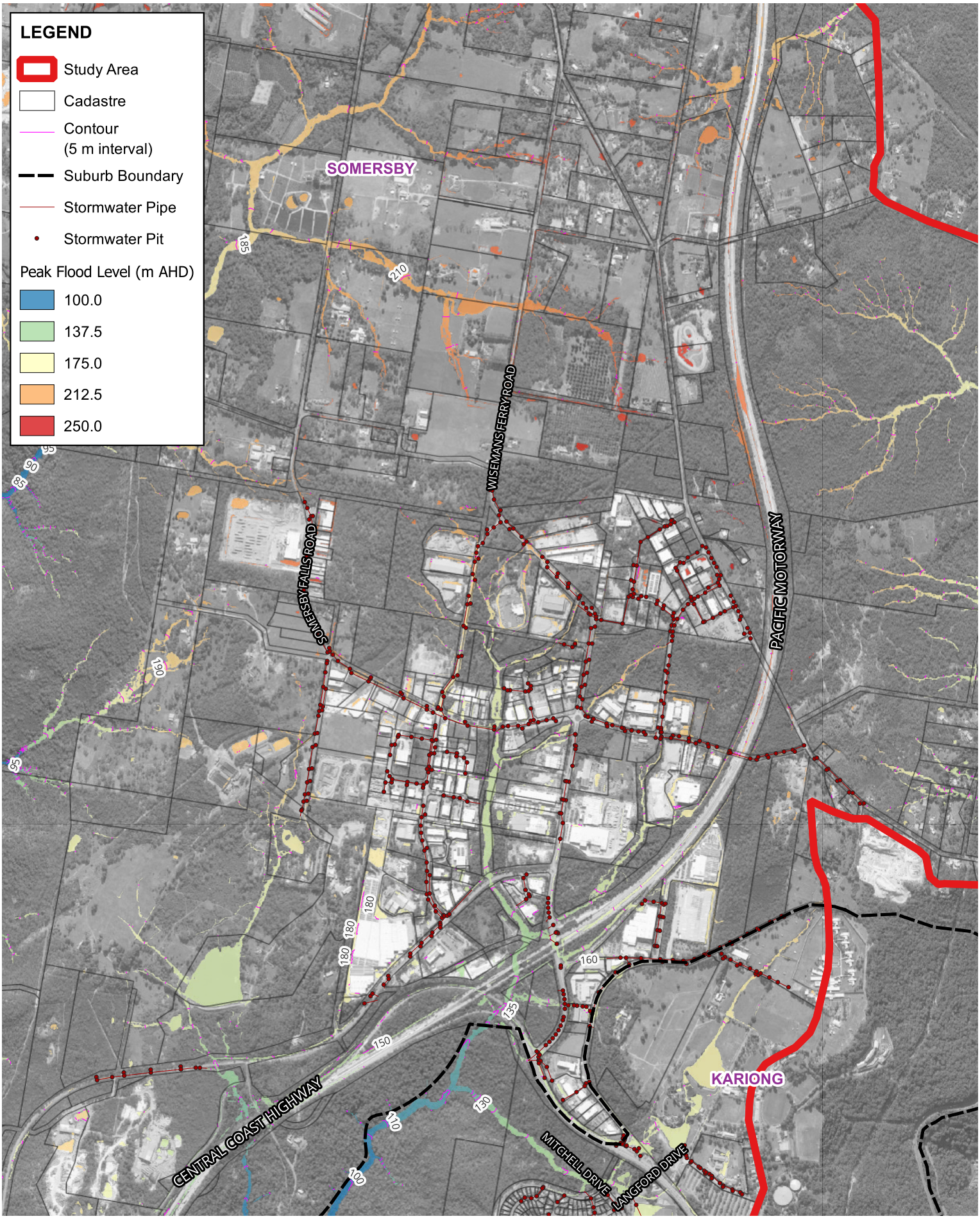
1:10,000

KBR




Title:

# Peak Flood Level - Somersby Industrial Area
# 20% AEP Design Event Scenario

Figure: C-26

Rev: 0

Scale at A4 1:20000

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File: \\perfile001\data$\Water_Resources\Projects\SEW353_Kariong_Somersby_Flood_Study\G_GIS\Workspaces\Stage_Final_Draft\MS_Figures.qgz

Scale:

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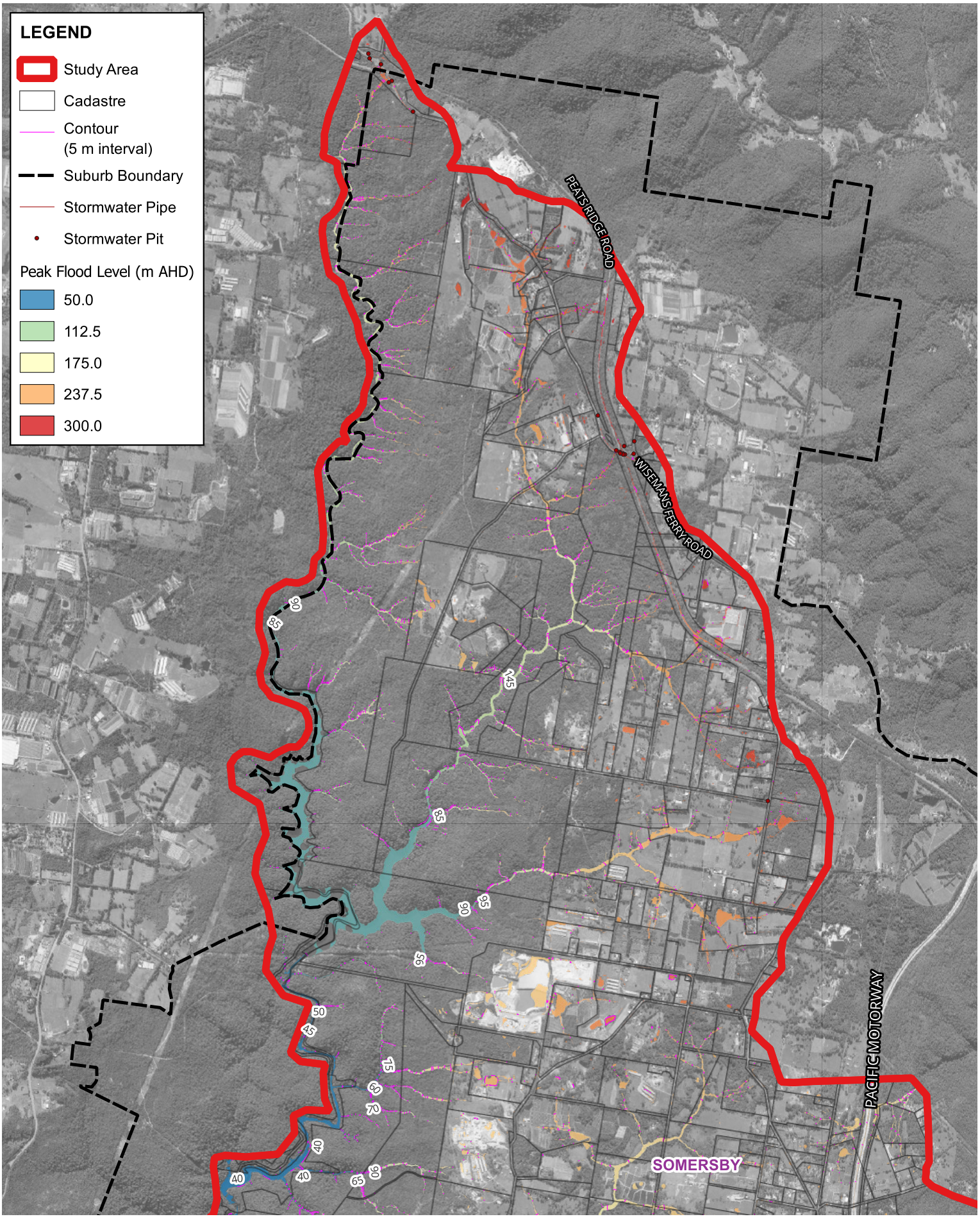
1:20,000

KBR




Title:

# Peak Flood Level - Northern Catchment
# 20% AEP Design Event Scenario

Figure: C-27

Rev: 0

Scale at A4 1:40000
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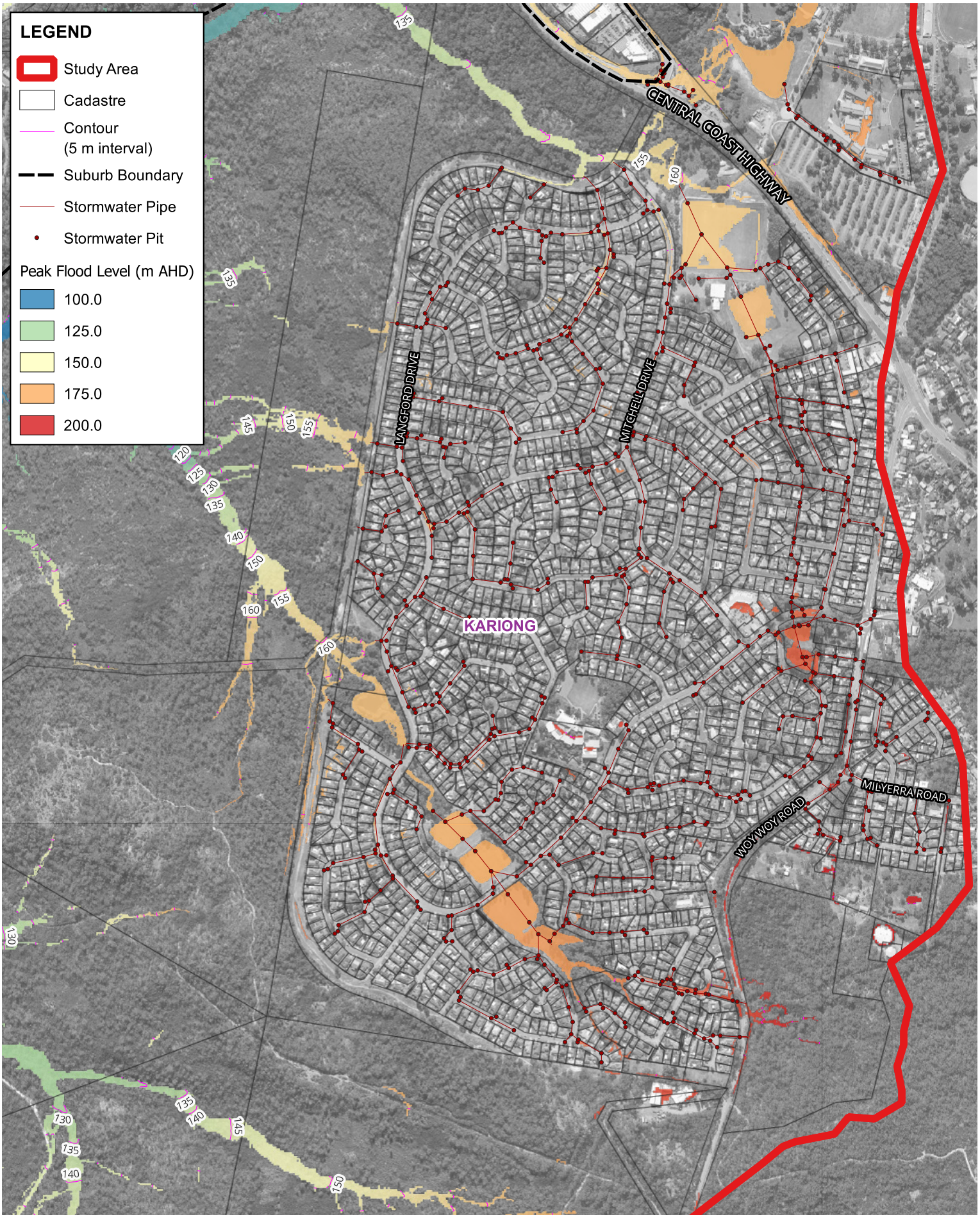
Scale:

0 0.3 0.6 0.9 1.2 1.5 km

1:40,000

KBR




# Peak Flood Level - Kariong Town
# 10% AEP Design Event Scenario

Figure: C-28

Rev: 0

Scale at A4 1:10000
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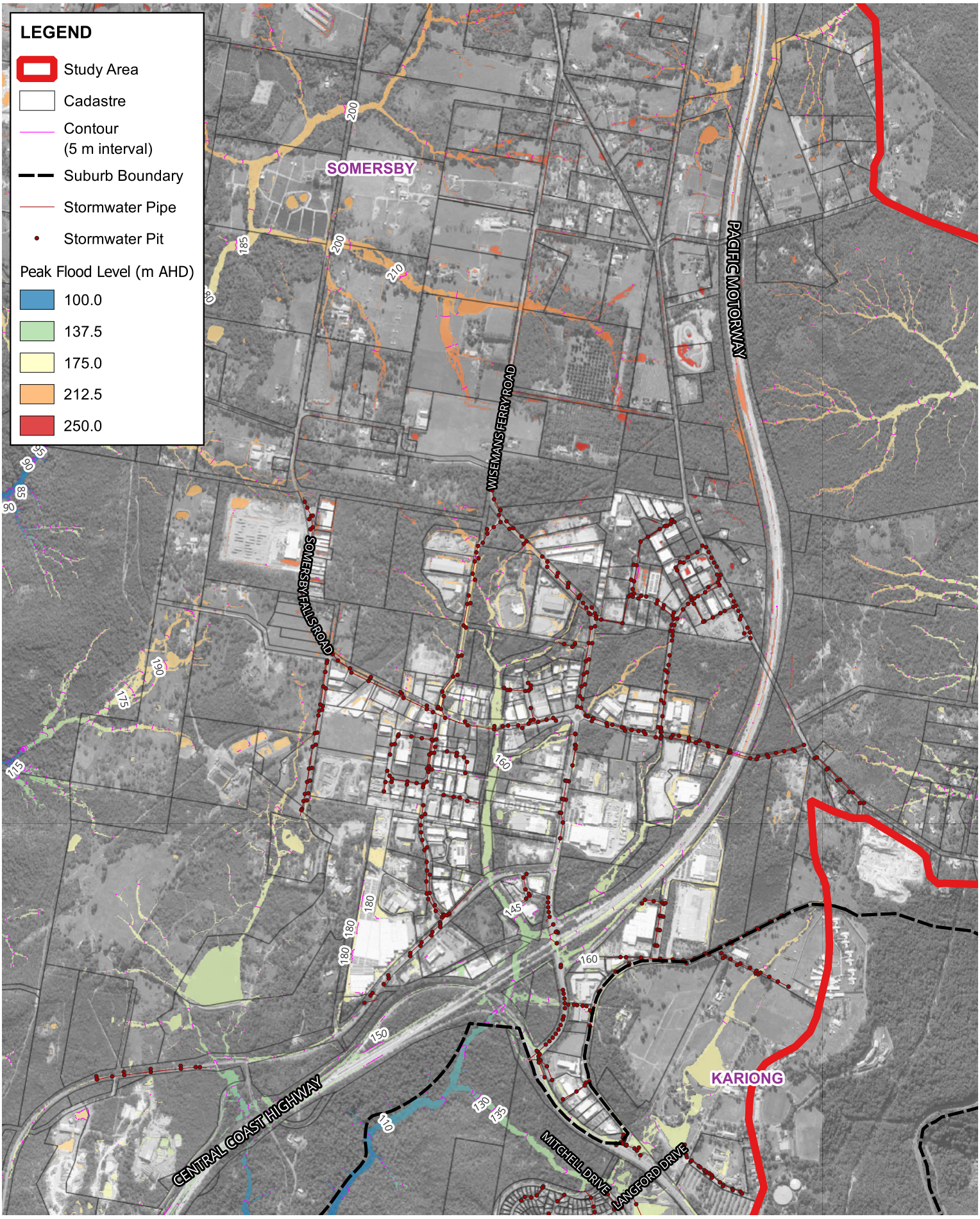
File: \\perfile001\data$\Water_Resources\Projects\SEW353_Kariong_Somersby_Flood_Study\G_GIS\Workspaces\Stage_Final_Draft\MS_Figures.qgz

Scale:

0 0.08 0.16 0.24 0.32 0.4 km

1:10,000




# Peak Flood Level - Somersby Industrial Area
# 10% AEP Design Event Scenario

Figure: C-29

Rev: 0

Scale at A4 1:20000

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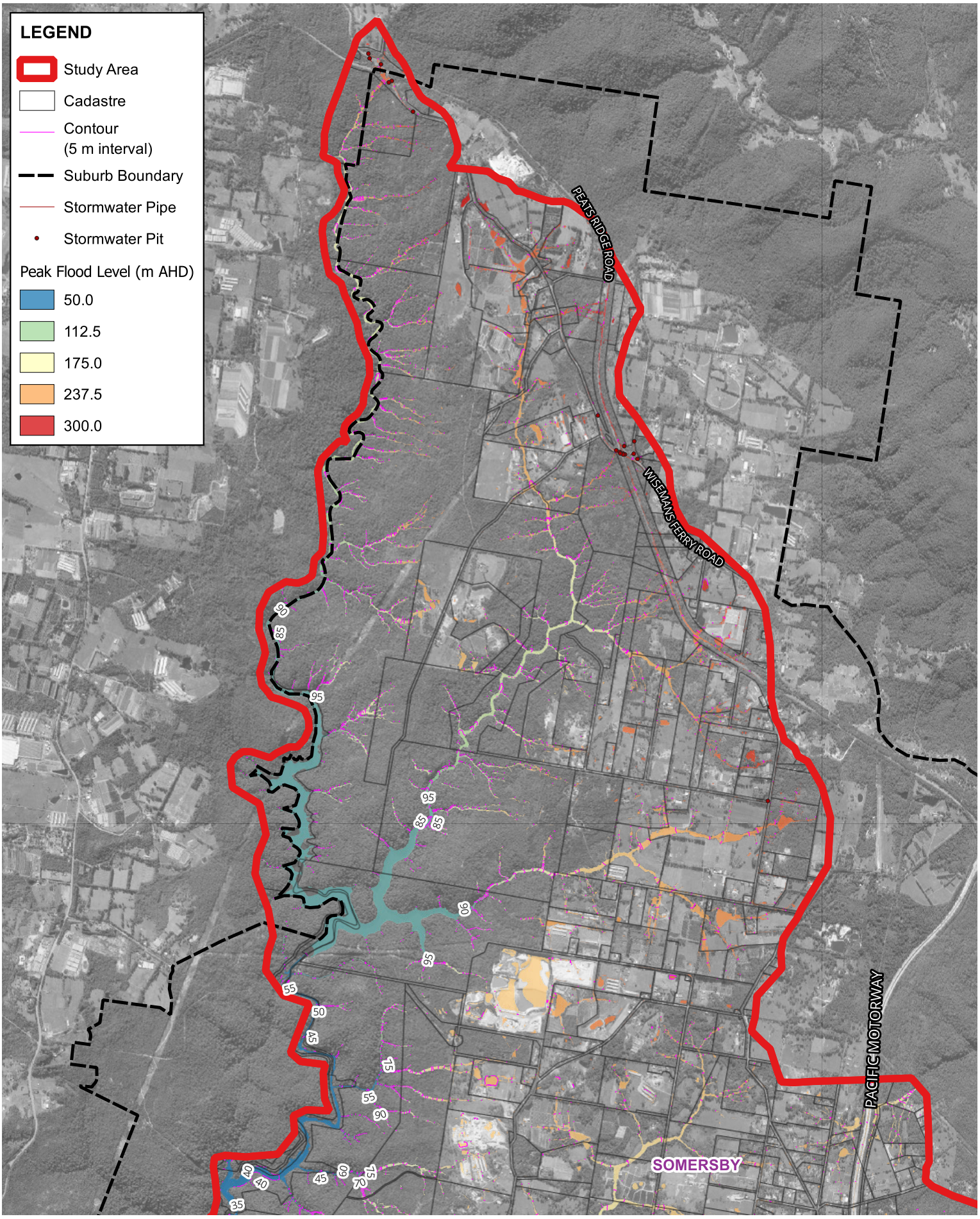
Scale:

0 0.1 0.2 0.3 0.4 0.5 km

1:20,000




# Peak Flood Level - Northern Catchment
# 10% AEP Design Event Scenario

Figure: C-30

Rev: 0

Scale at A4 1:40000

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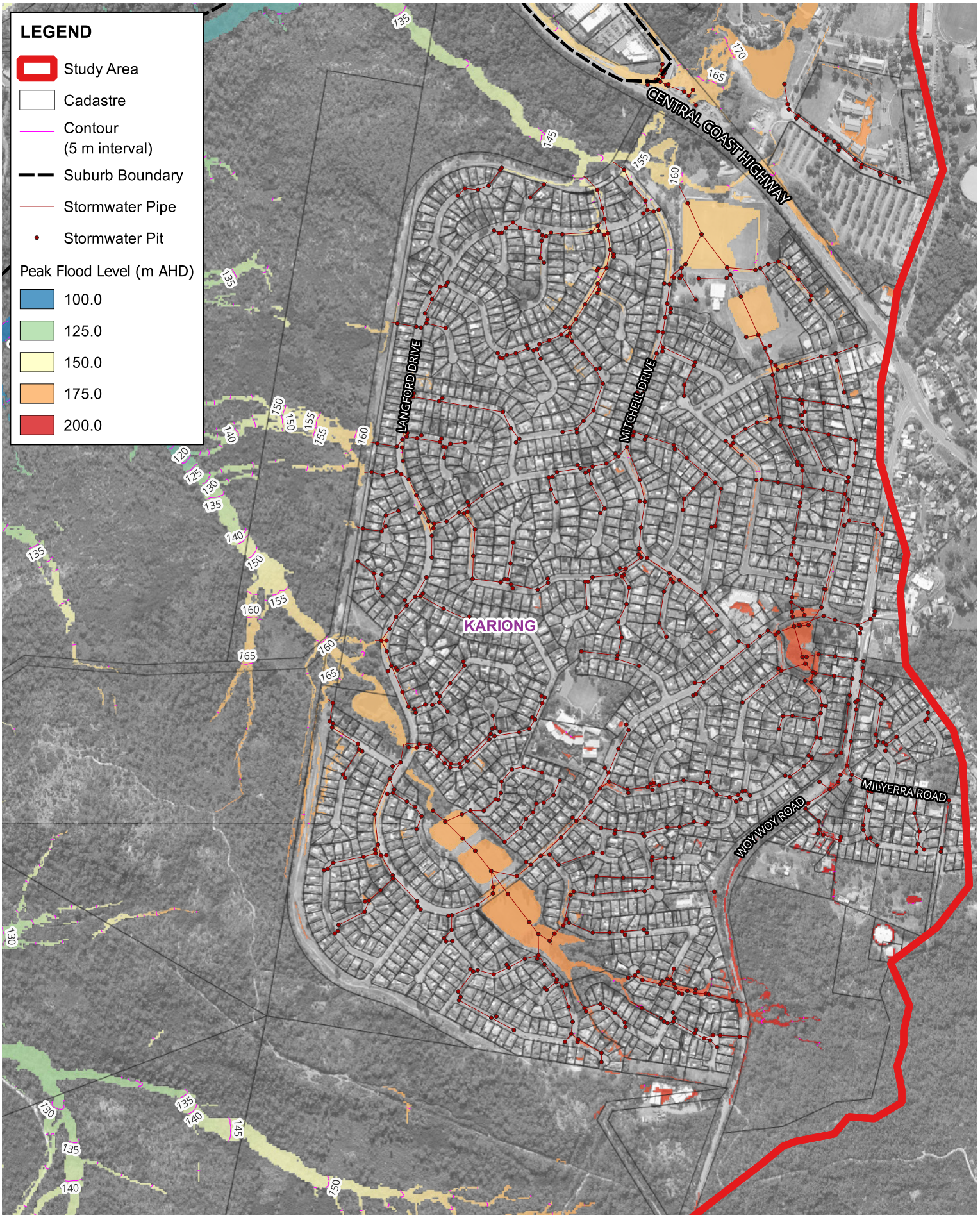
File: \\perfile001\data$\Water_Resources\Projects\SEW353_Kariong_Somersby_Flood_Study\G_GIS\Workspaces\Stage_Final_Draft\MS_Figures.qgz

Scale:

0 0.3 0.6 0.9 1.2 1.5 km

1:40,000




Title:

# Peak Flood Level - Kariong Town
# 5% AEP Design Event Scenario

Figure: C-31

Rev: 0

Scale at A4 1:10000

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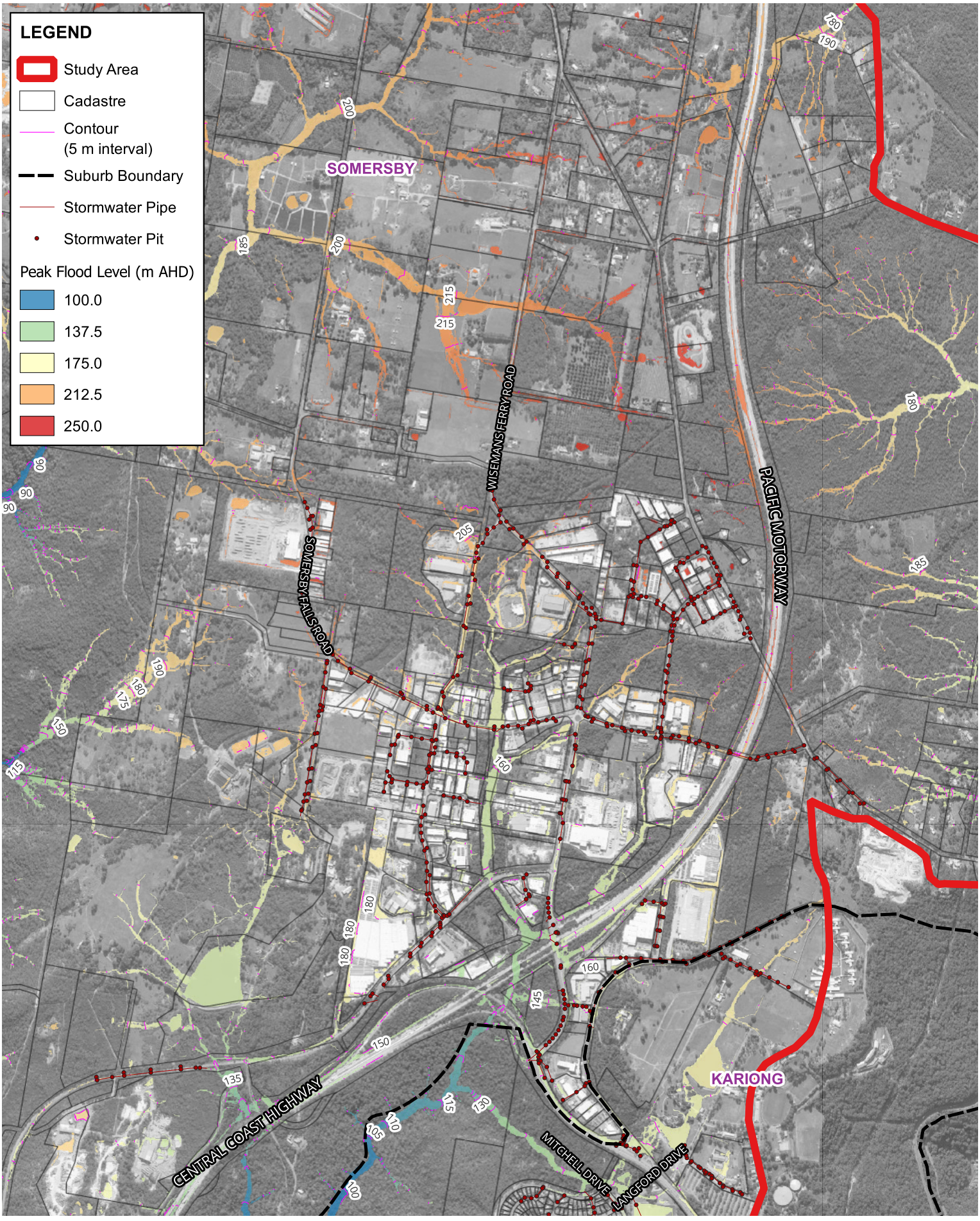
File: \\perfile001\data$\Water_Resources\Projects\SEW353_Kariong_Somersby_Flood_Study\G_GIS\Workspaces\Stage_Final_Draft\MS_Figures.qgz

Scale:

0 0.08 0.16 0.24 0.32 0.4 km

1:10,000

KBR




Title:

# Peak Flood Level - Somersby Industrial Area
# 5% AEP Design Event Scenario

Figure: C-32

Rev: 0

Scale at A4 1:20000
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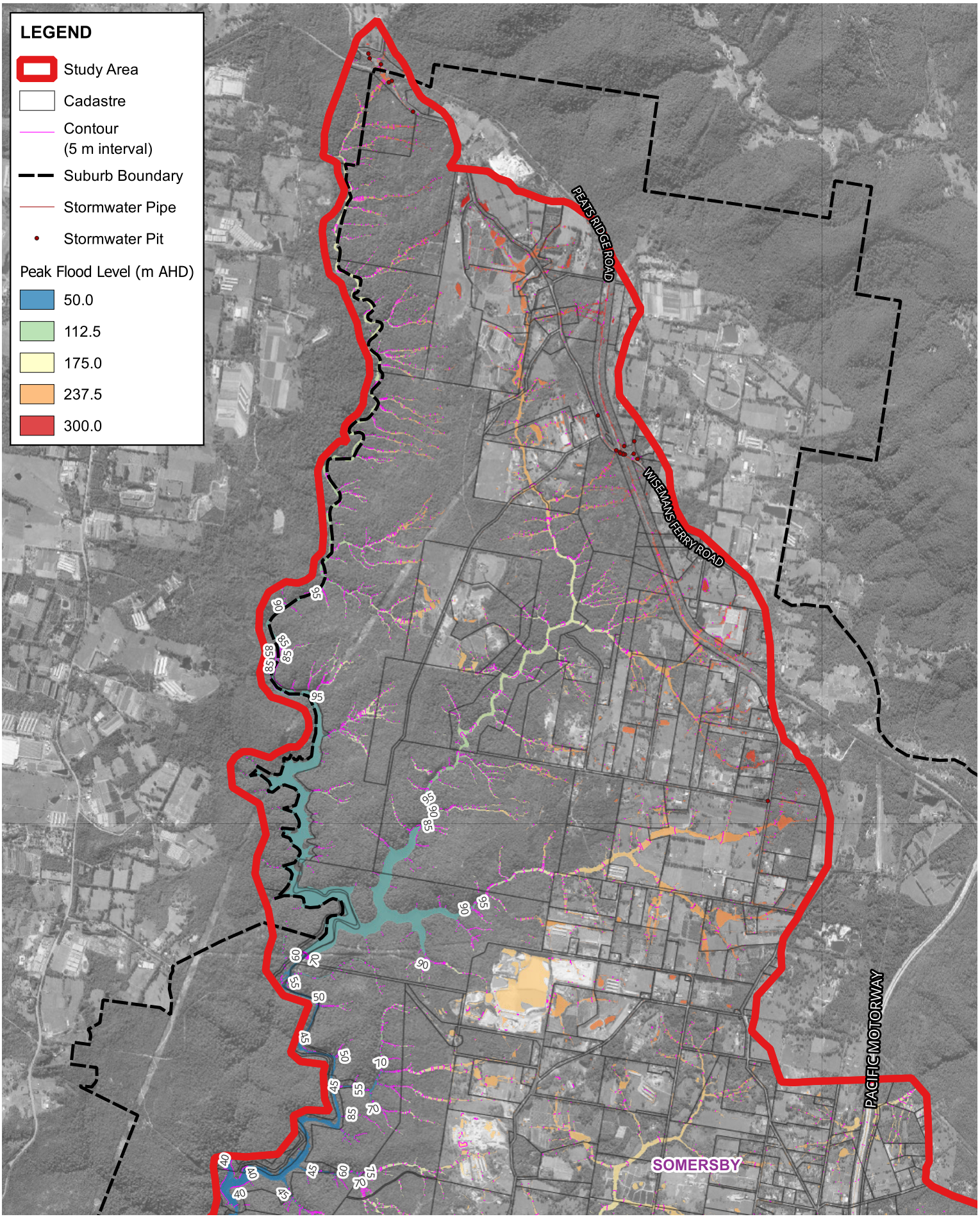
File: \\perfile001\data$\Water_Resources\Projects\SEW353_Kariong_Somersby_Flood_Study\G_GIS\Workspaces\Stage_Final_Draft\MS_Figures.qgz

Scale:

0 0.1 0.2 0.3 0.4 0.5 km

1:20,000




# Peak Flood Level - Northern Catchment
# 5% AEP Design Event Scenario

Figure: C-33

Rev: 0

Scale at A4 1:40000

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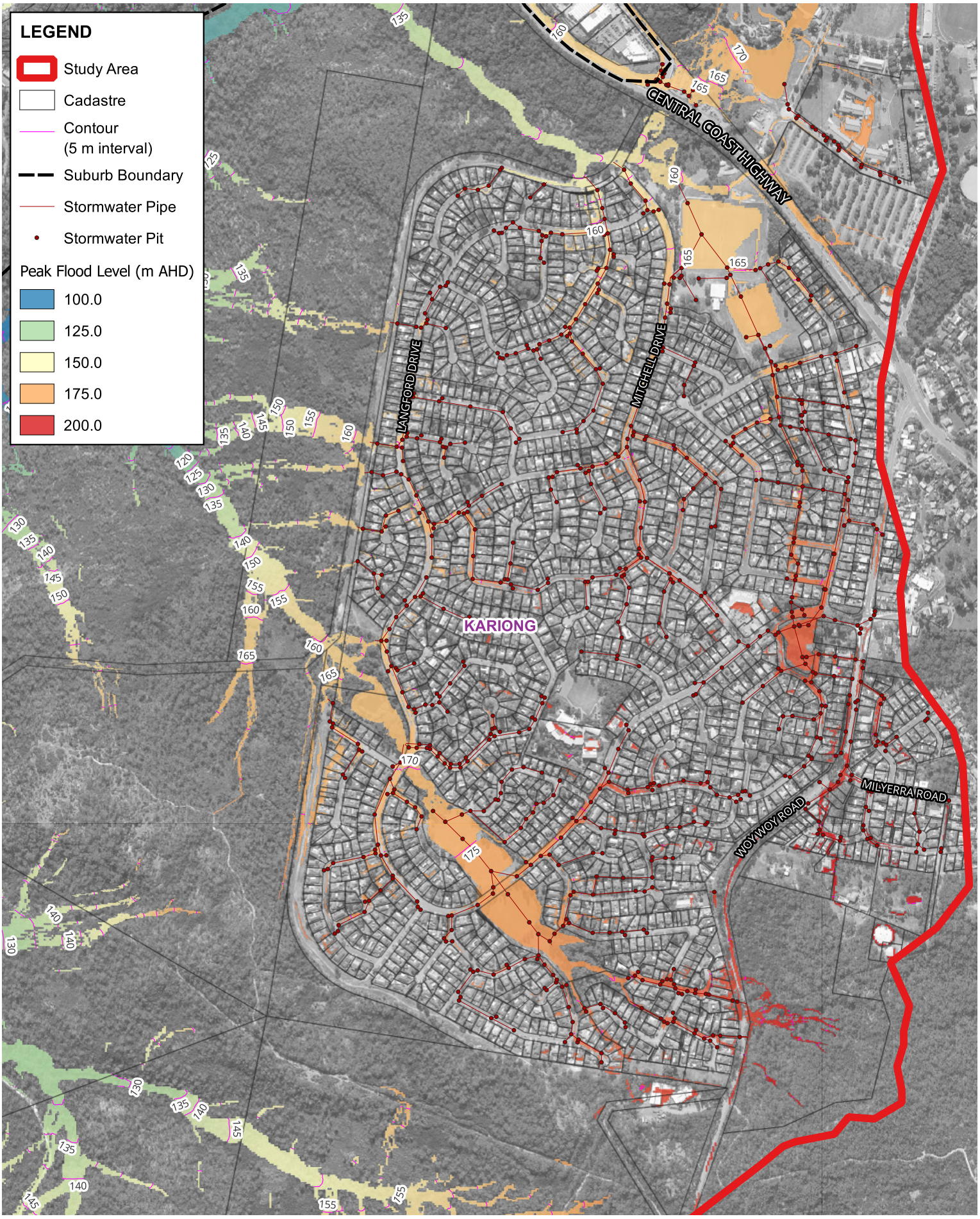
File: \\perfile001\data$\Water_Resources\Projects\SEW353_Kariong_Somersby_Flood_Study\G_GIS\Workspaces\Stage_Final_Draft\MS_Figures.qgz

Scale:

0 0.3 0.6 0.9 1.2 1.5 km

1:40,000




# Peak Flood Level - Kariong Town
# 2% AEP Design Event Scenario

Figure: C-34

Rev: 0

Scale at A4 1:10000

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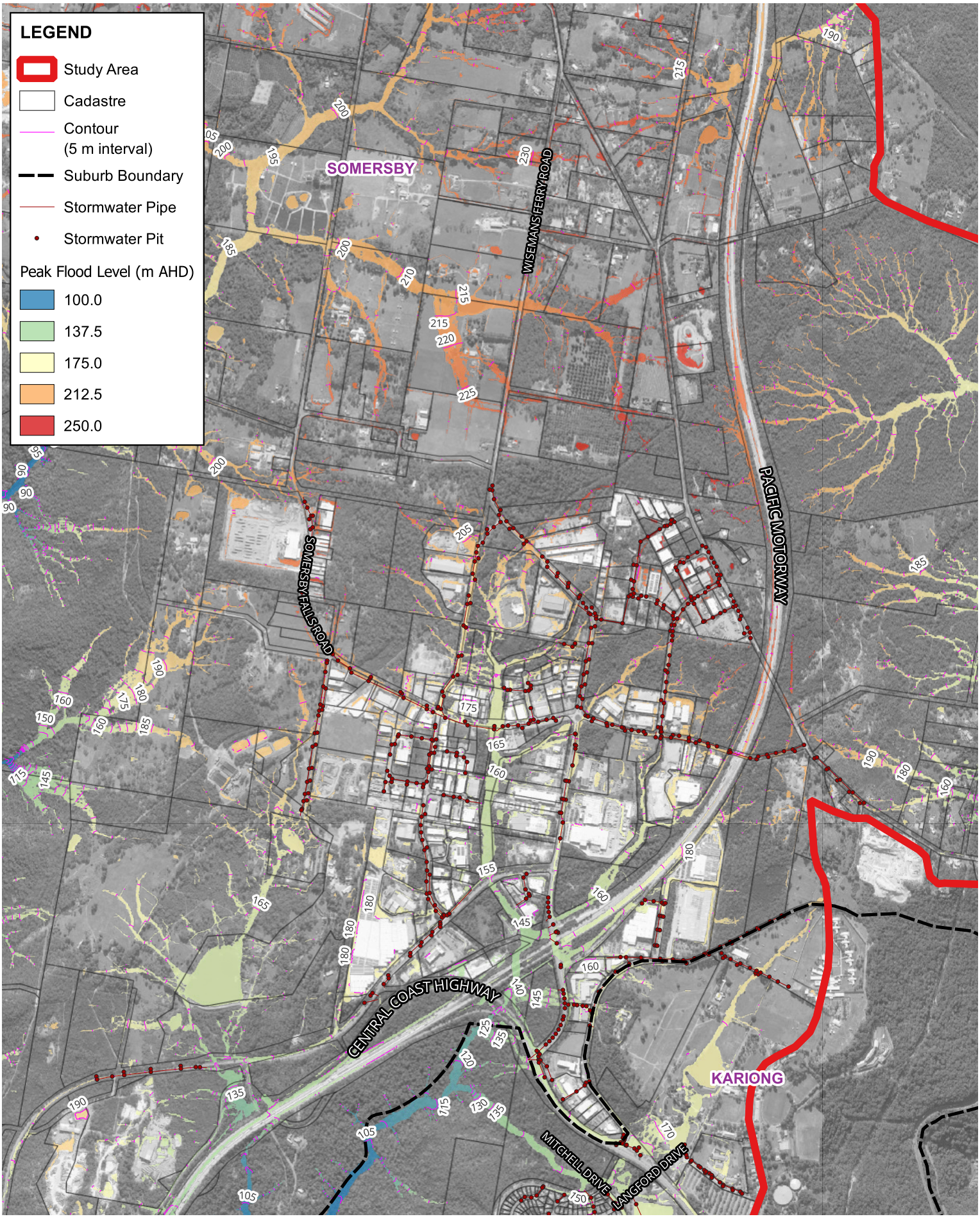
File: \\perfile001\data$\Water_Resources\Projects\SEW353_Kariong_Somersby_Flood_Study\G_GIS\Workspaces\Stage_Final_Draft\MS_Figures.qgz

Scale:

0 0.08 0.16 0.24 0.32 0.4 km

1:10,000




Title:

# Peak Flood Level - Somersby Industrial Area
# 2% AEP Design Event Scenario

Figure: C-35

Rev: 0

Scale at A4 1:20000

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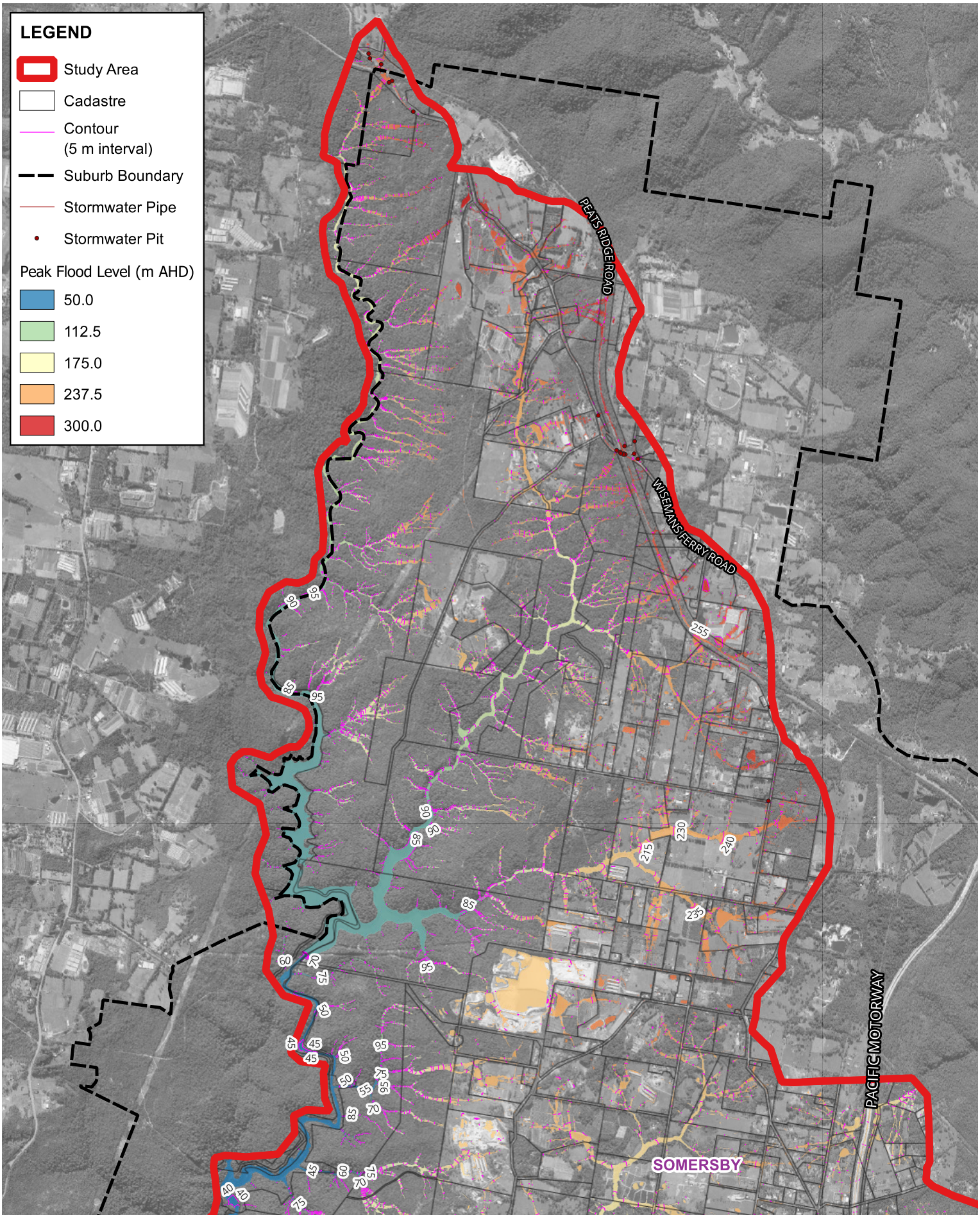
File: \\perfile001\data$\Water_Resources\Projects\SEW353_Kariong_Somersby_Flood_Study\G_GIS\Workspaces\Stage_Final_Draft\MS_Figures.qgz

Scale:

0 0.1 0.2 0.3 0.4 0.5 km

1:20,000

KBR




Title:

# Peak Flood Level - Northern Catchment
# 2% AEP Design Event Scenario

Figure: C-36

Rev: 0

Scale at A4 1:40000

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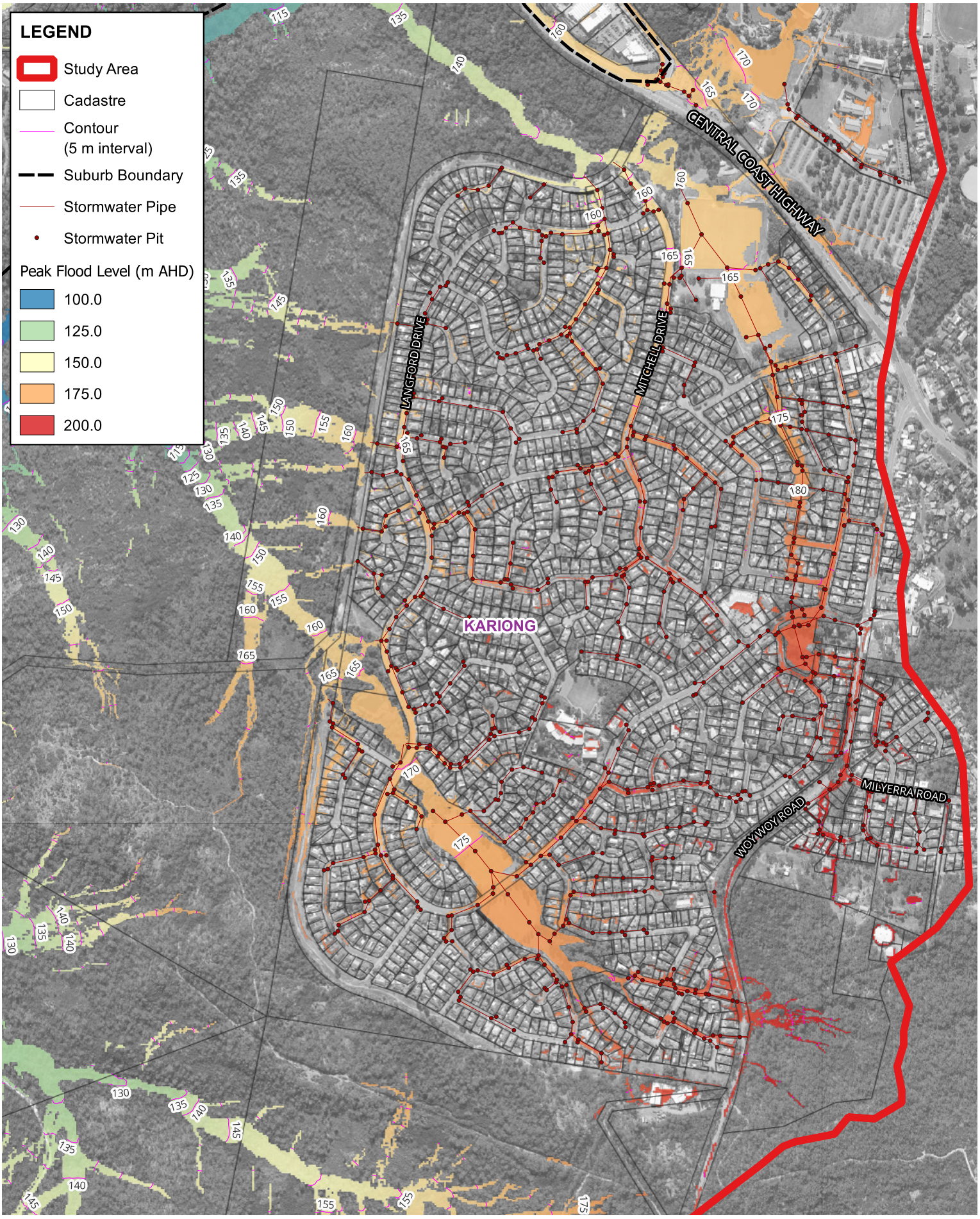
Scale:

0 0.3 0.6 0.9 1.2 1.5 km

1:40,000

KBR




Title:

# Peak Flood Level - Kariong Town
# 1 in 100 AEP Design Event Scenario

Figure: C-37

Rev: 0

Scale at A4 1:10000
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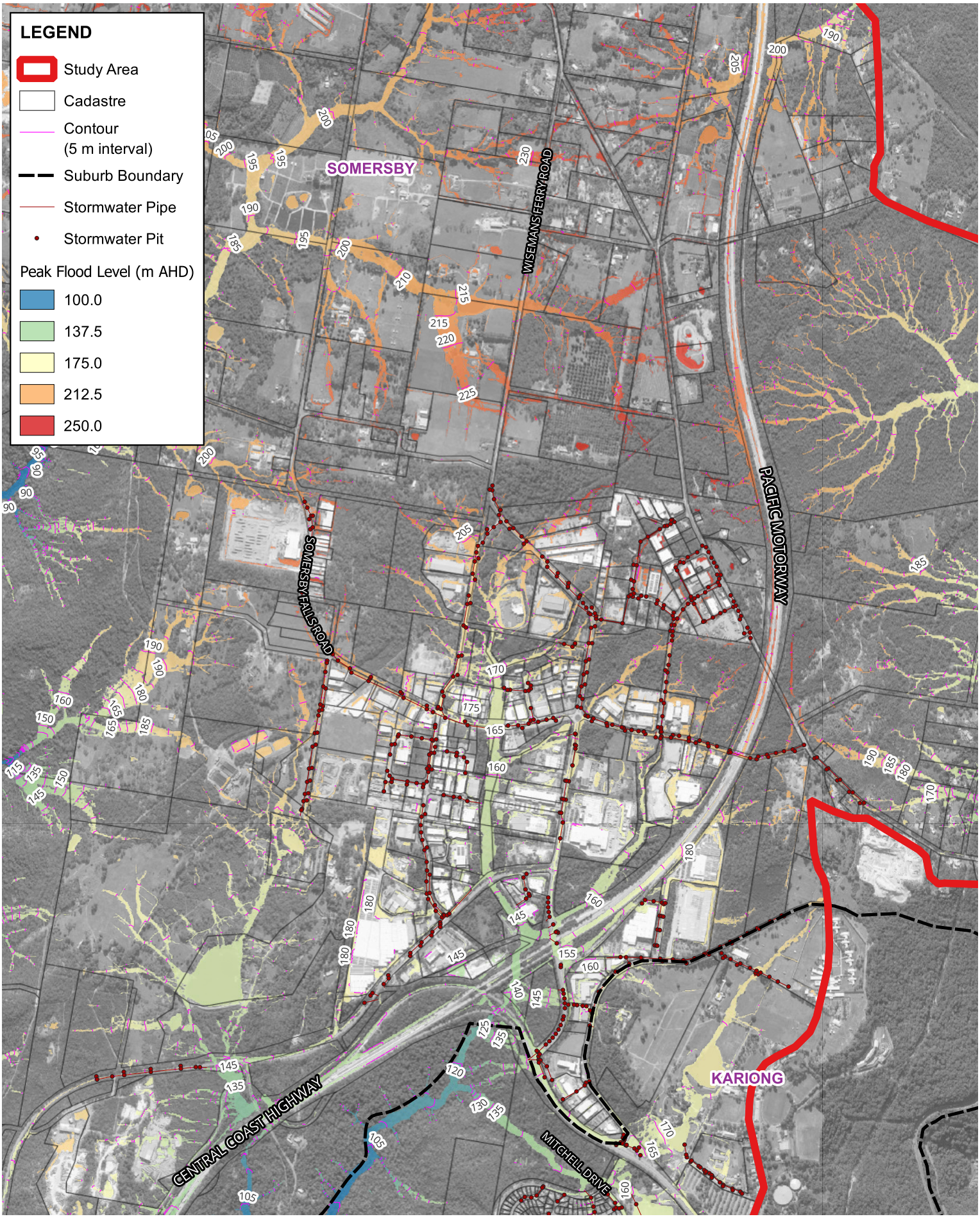
Scale:

0 0.08 0.16 0.24 0.32 0.4 km

1:10,000




# Peak Flood Level - Somersby Industrial Area
# 1 in 100 AEP Design Event Scenario

Figure: C-38

Rev: 0

Scale at A4 1:20000

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Scale:

0 0.1 0.2 0.3 0.4 0.5 km

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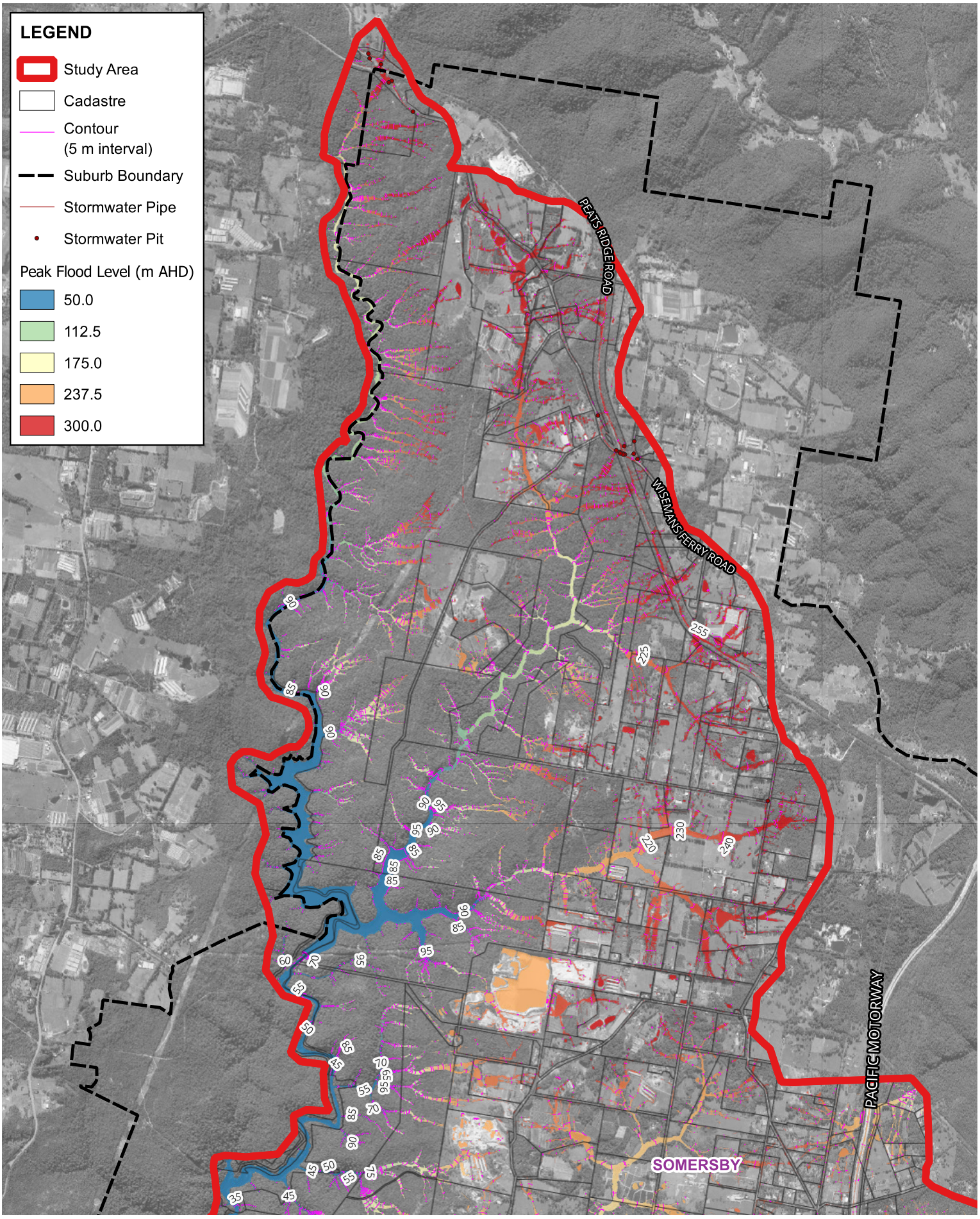


Title:

# Peak Flood Level - Northern Catchment
# 1 in 100 AEP Design Event Scenario

Figure: C-39

Rev: 0

Scale at A4 1:40000

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Scale:

0 0.3 0.6 0.9 1.2 1.5 km

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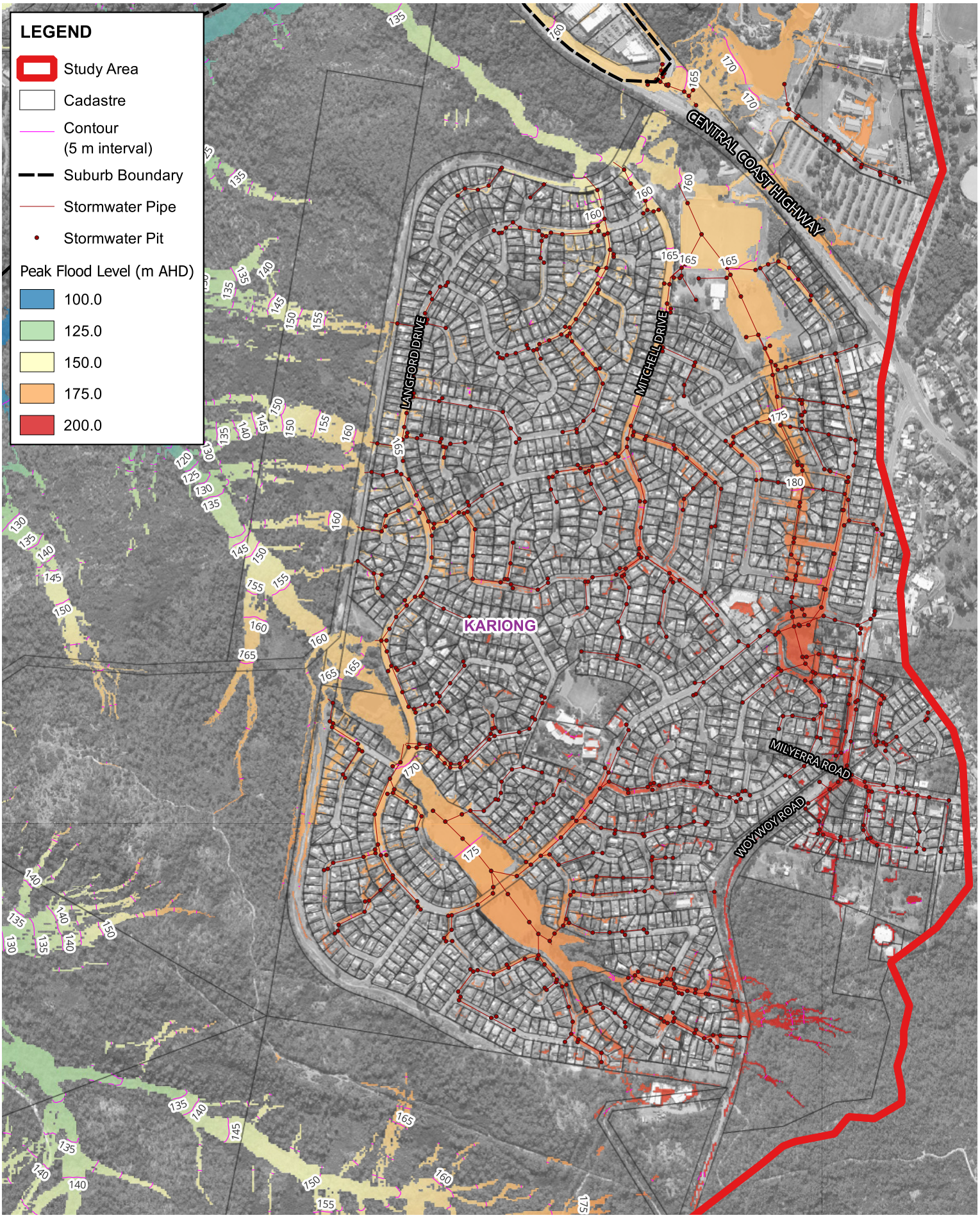


Title:

# Peak Flood Level - Kariong Town
# 1 in 200 AEP Design Event Scenario

Figure: C-40

Rev: 0

Scale at A4 1:10000
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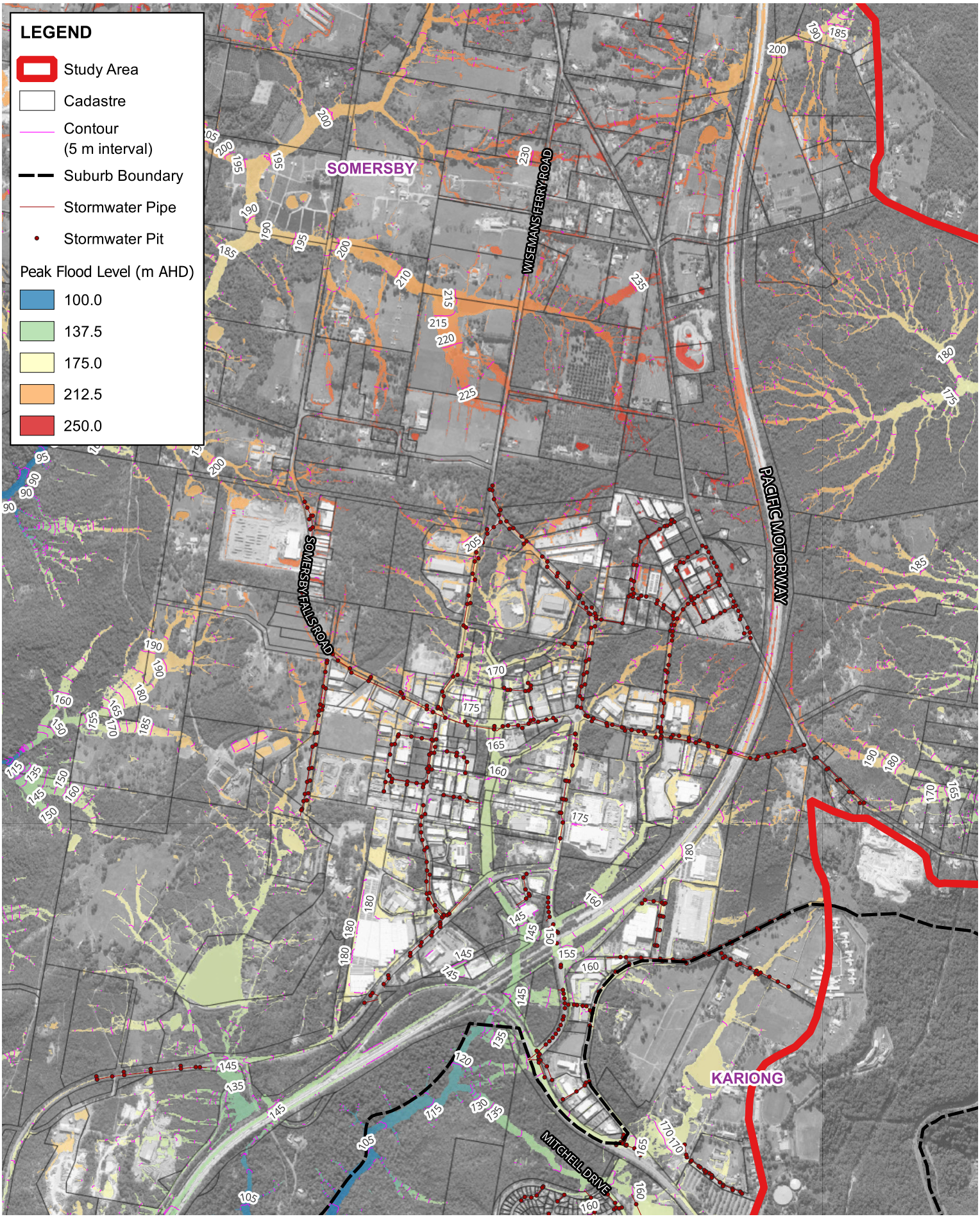
Scale:

0 0.08 0.16 0.24 0.32 0.4 km

1:10,000




# Peak Flood Level - Somersby Industrial Area
# 1 in 200 AEP Design Event Scenario

Figure: C-41

Rev: 0

Scale at A4 1:20000

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Scale:

0 0.1 0.2 0.3 0.4 0.5 km

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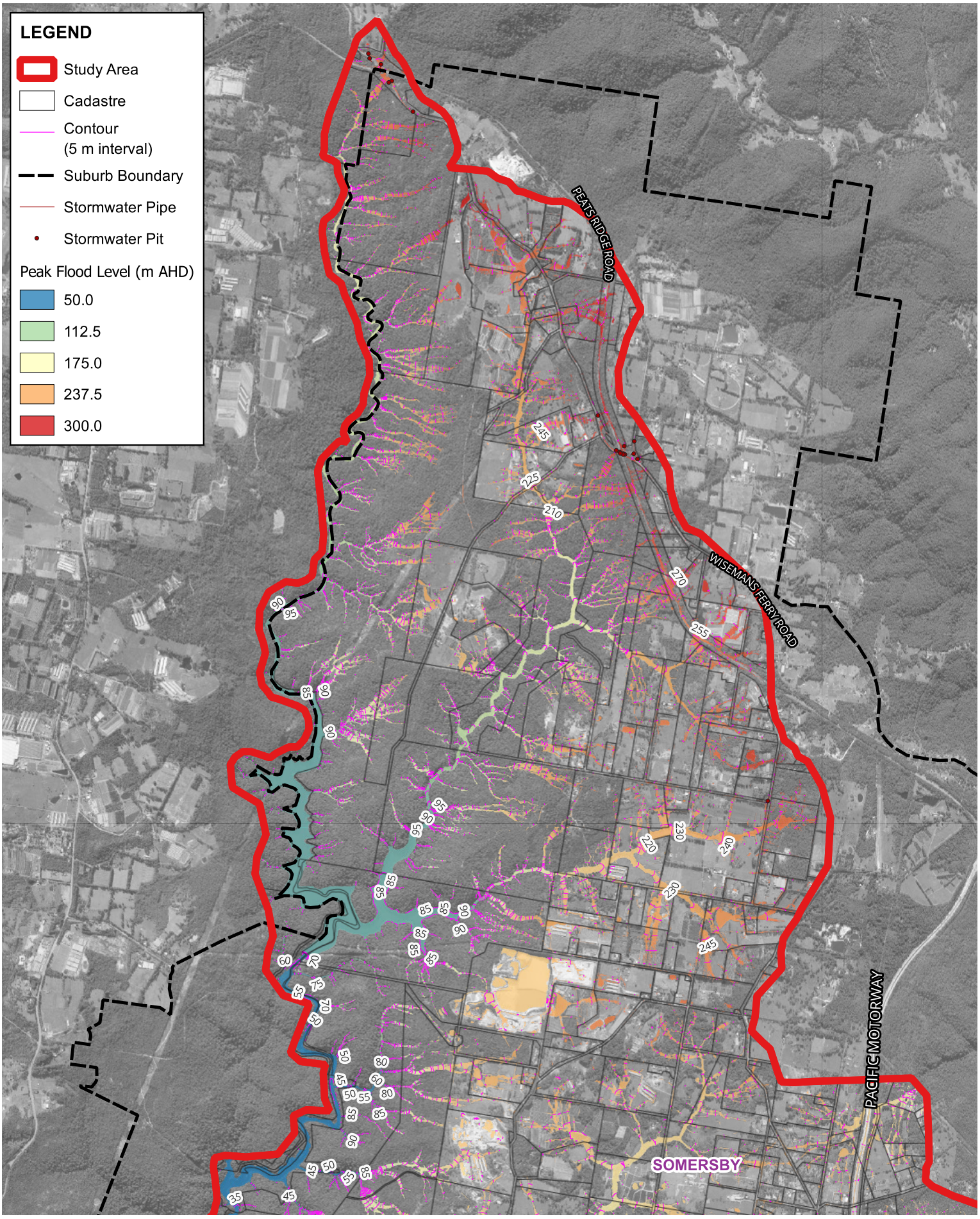


# Peak Flood Level - Northern Catchment
# 1 in 200 AEP Design Event Scenario

Figure: C-42

Rev: 0

Scale at A4 1:40000

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Scale:

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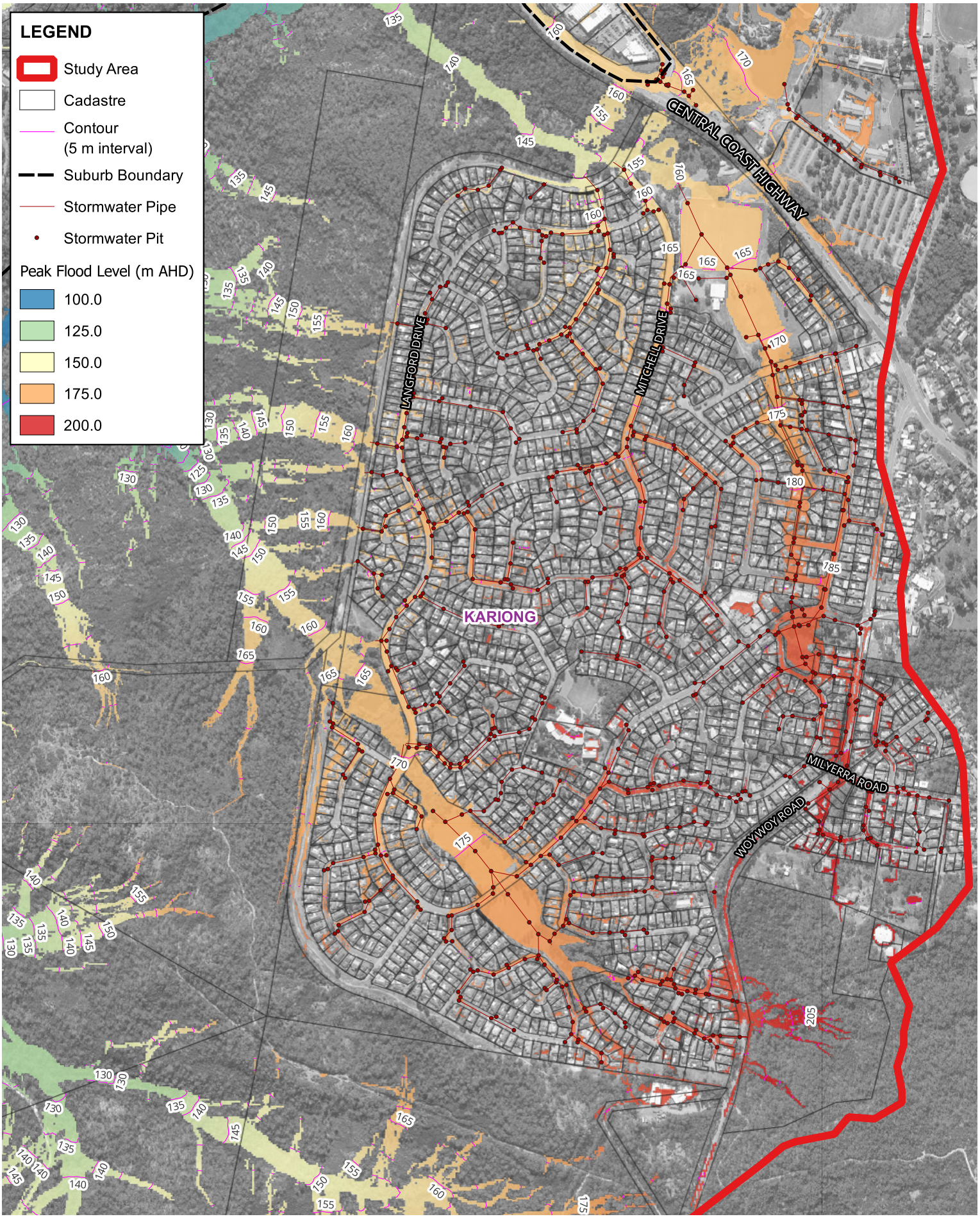
1:40,000




Title:

# Peak Flood Level - Kariong Town
# 1 in 500 AEP Design Event Scenario

Figure: C-43

Rev: 0

Scale at A4 1:10000
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Scale:

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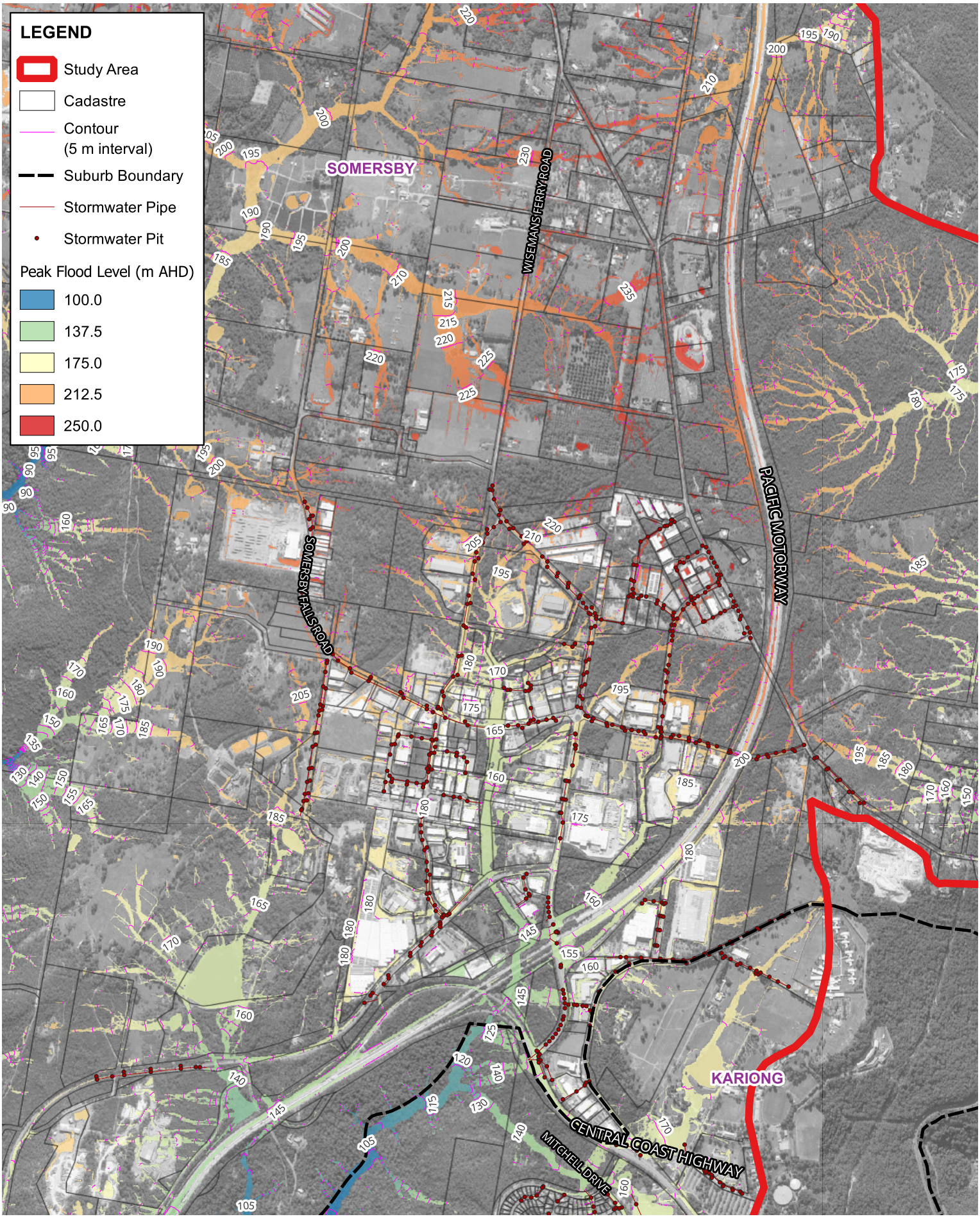


Title:

# Peak Flood Level - Somersby Industrial Area
# 1 in 500 AEP Design Event Scenario

Figure: C-44

Rev: 0

Scale at A4 1:20000
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Scale:

0 0.1 0.2 0.3 0.4 0.5 km

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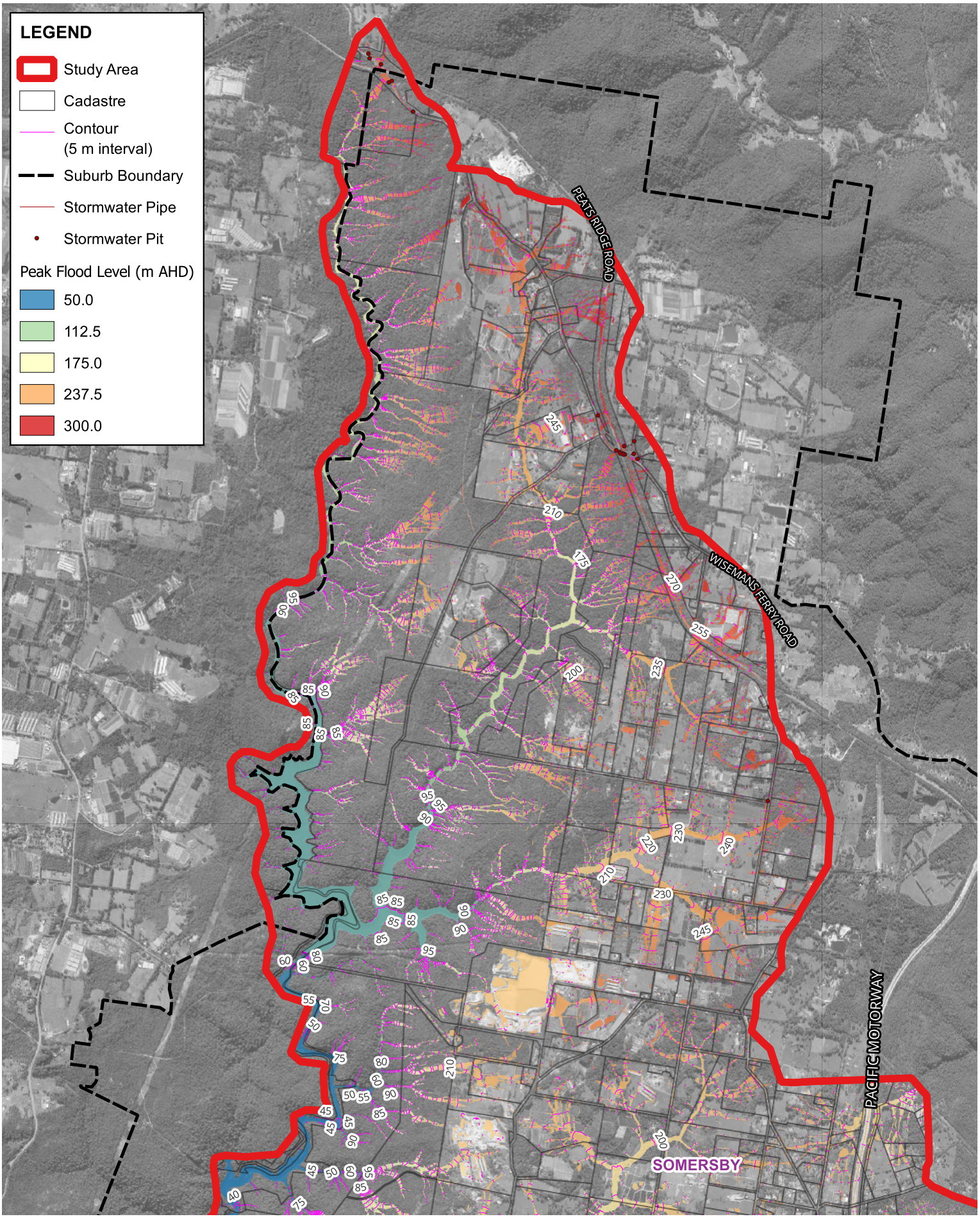


# Peak Flood Level - Northern Catchment
# 1 in 500 AEP Design Event Scenario

Figure: C-45

Rev: 0

Scale at A4 1:40000

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Scale:

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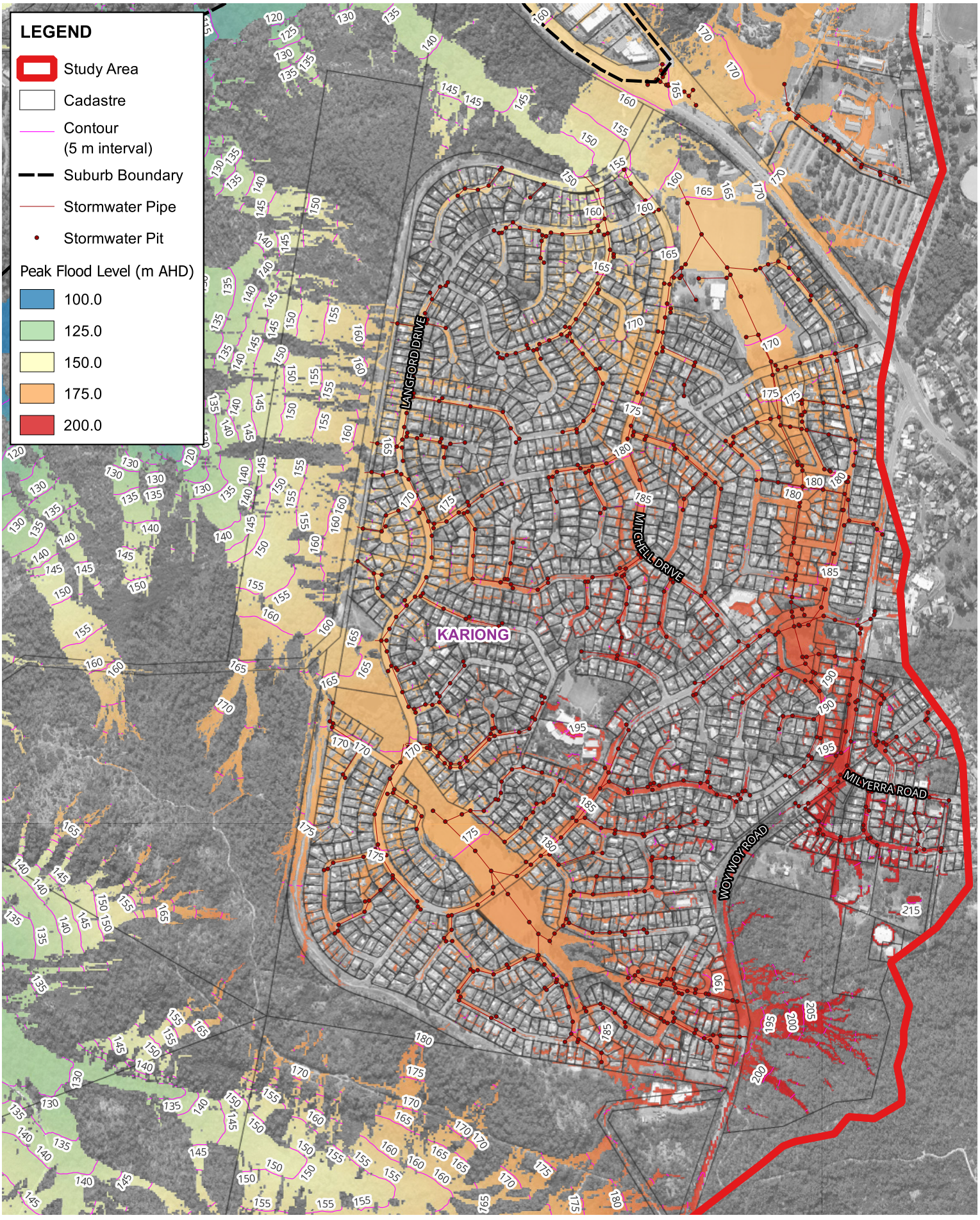


# Peak Flood Level - Kariong Town
# PMF Design Event Scenario

Figure: C-46

Rev: 0

Scale at A4 1:10000
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Scale:

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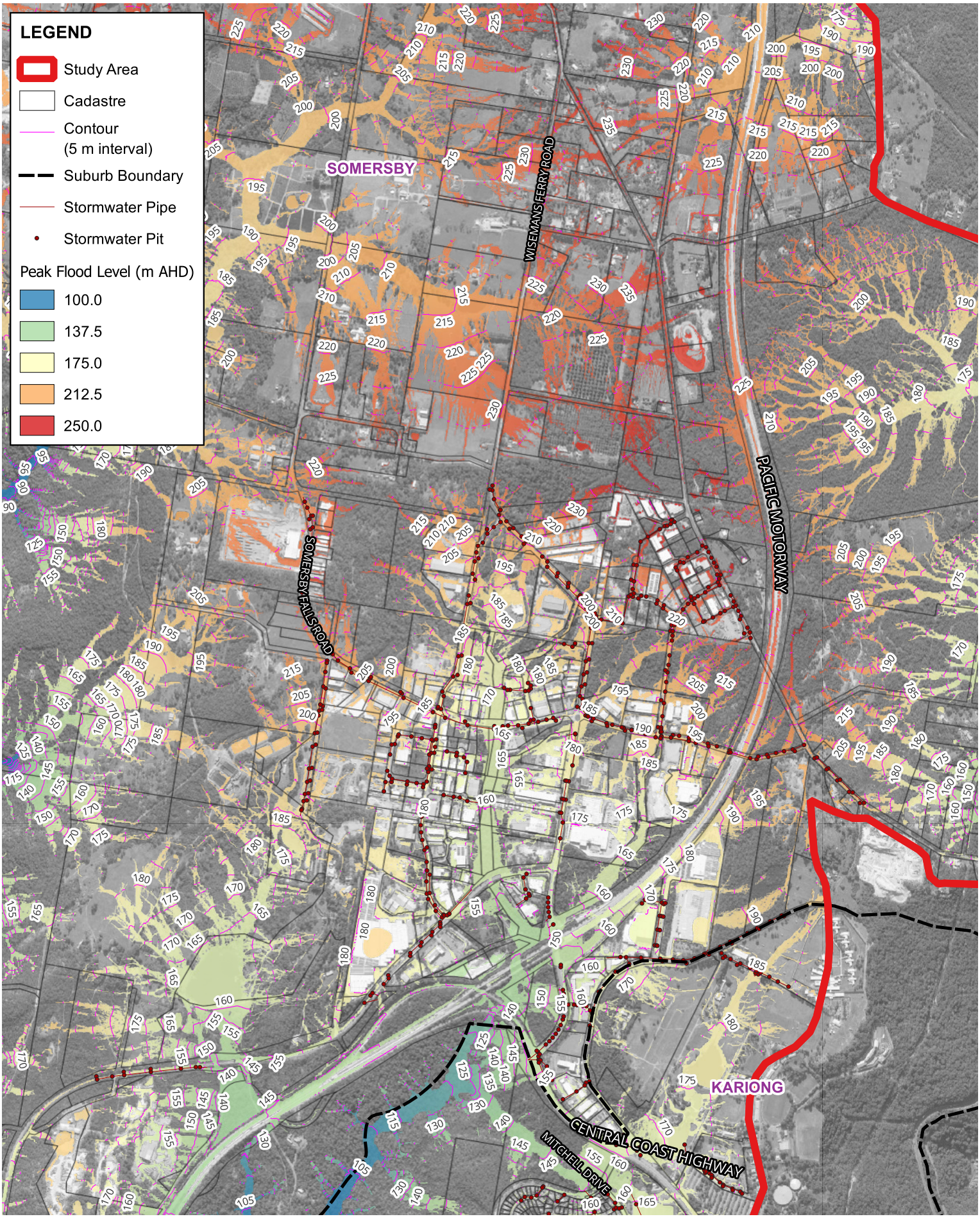


Title:

# Peak Flood Level - Somersby Industrial Area
# PMF Design Event Scenario

Figure: C-47

Rev: 0

Scale at A4 1:20000
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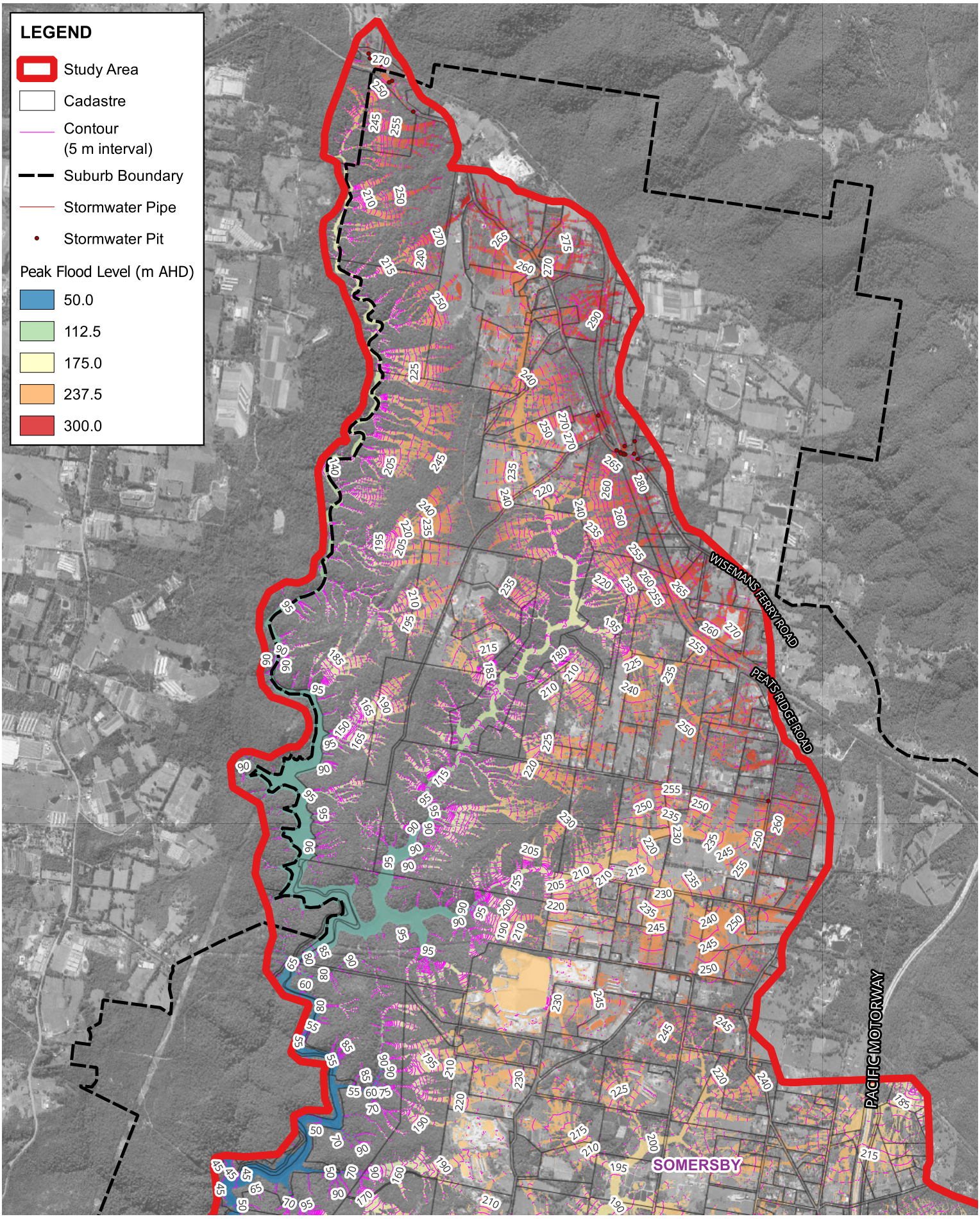
Scale:

0 0.1 0.2 0.3 0.4 0.5 km

1:20,000

KBR




Title:

# Peak Flood Level - Northern Catchment
# PMF Design Event Scenario

Figure: C-48

Rev: 0

Scale at A4 1:40000

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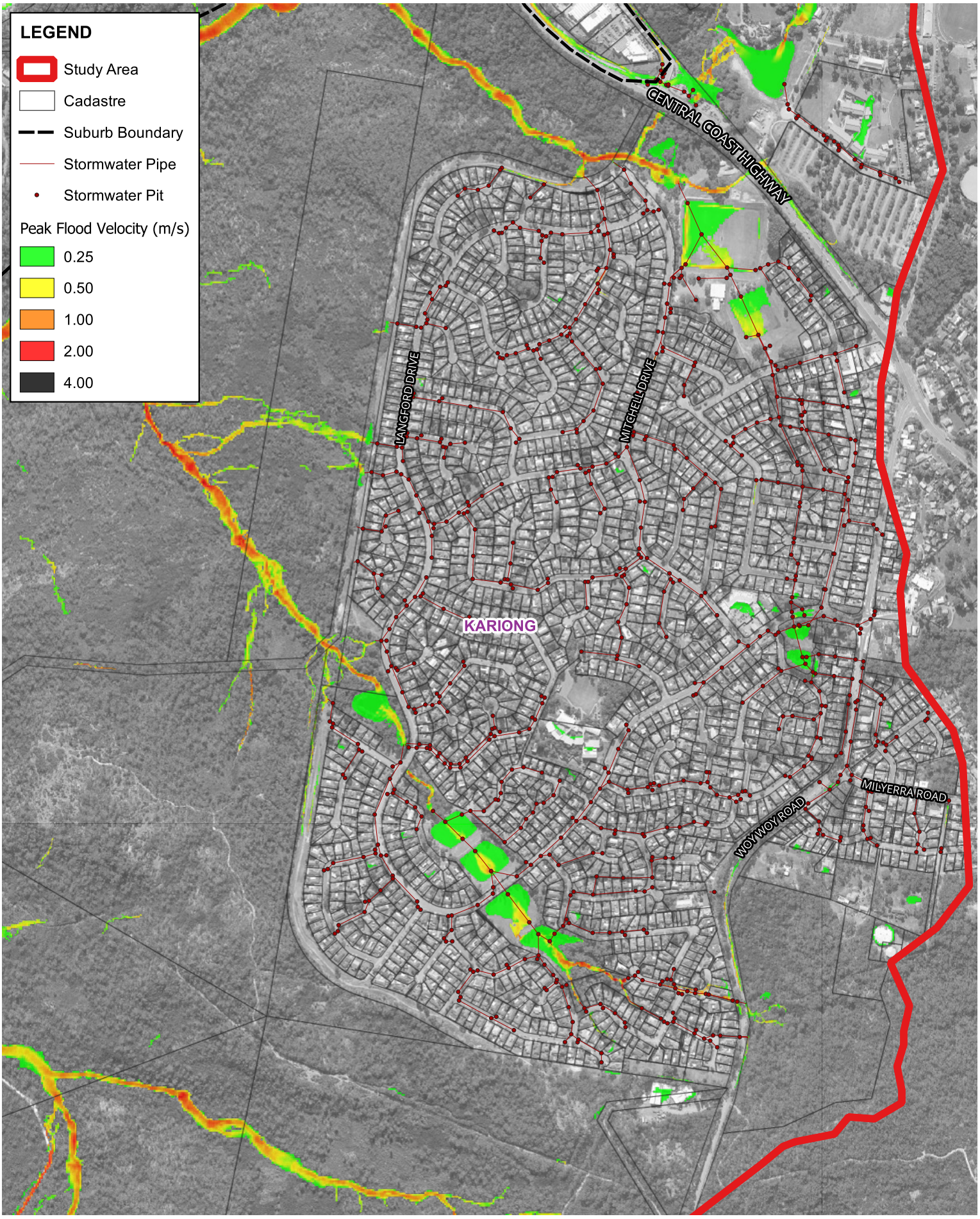
Scale:

0 0.3 0.6 0.9 1.2 1.5 km

1:40,000

KBR




Title:

# Peak Flood Velocity - Kariong Town
# 20% AEP Design Event Scenario

Figure: C-49

Rev: 0

Scale at A4 1:10000

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Scale:

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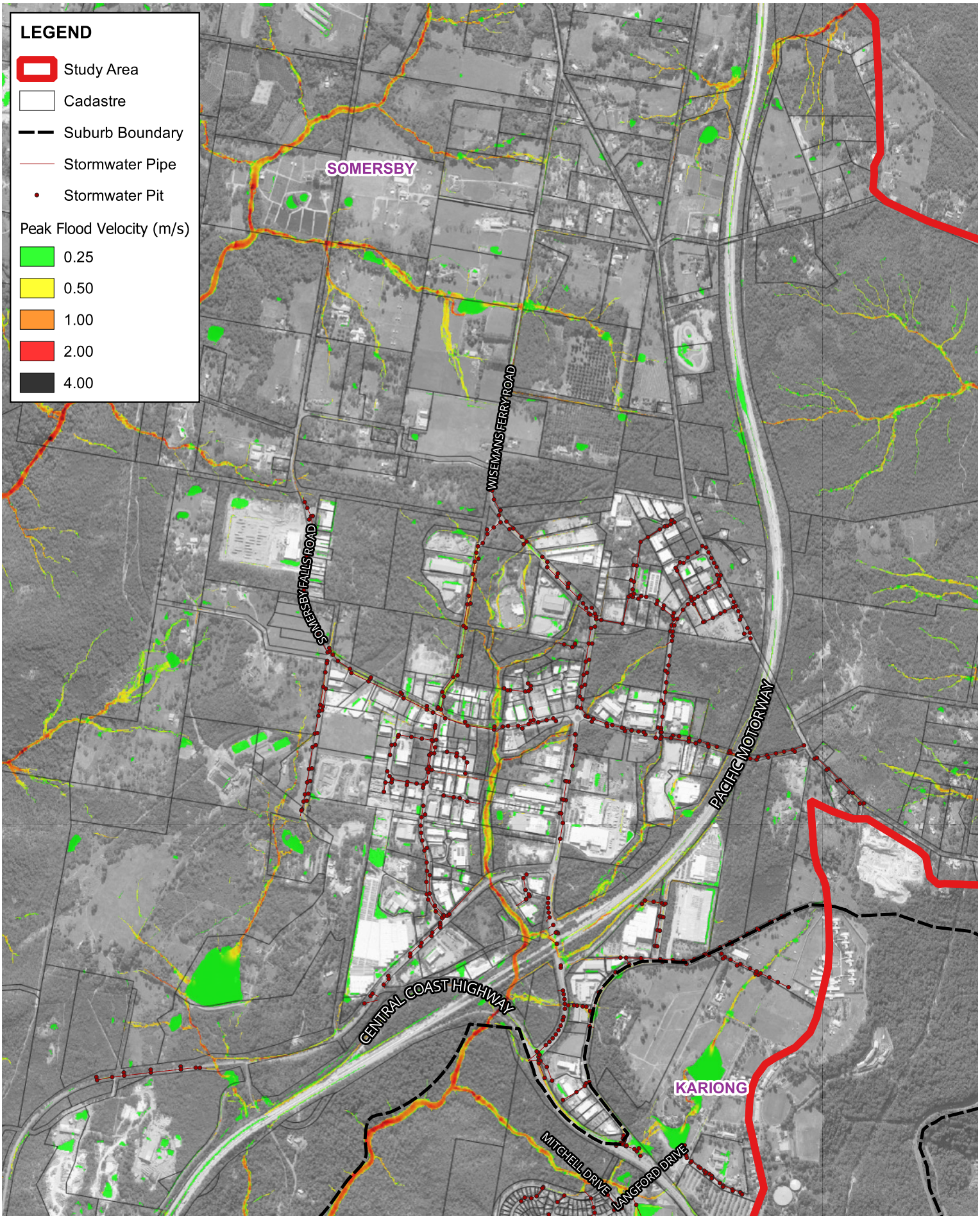
1:10,000

KBR




Title:

# Peak Flood Velocity - Somersby Industrial Area
# 20% AEP Design Event Scenario

Figure: C-50

Rev: 0

Scale at A4 1:20000

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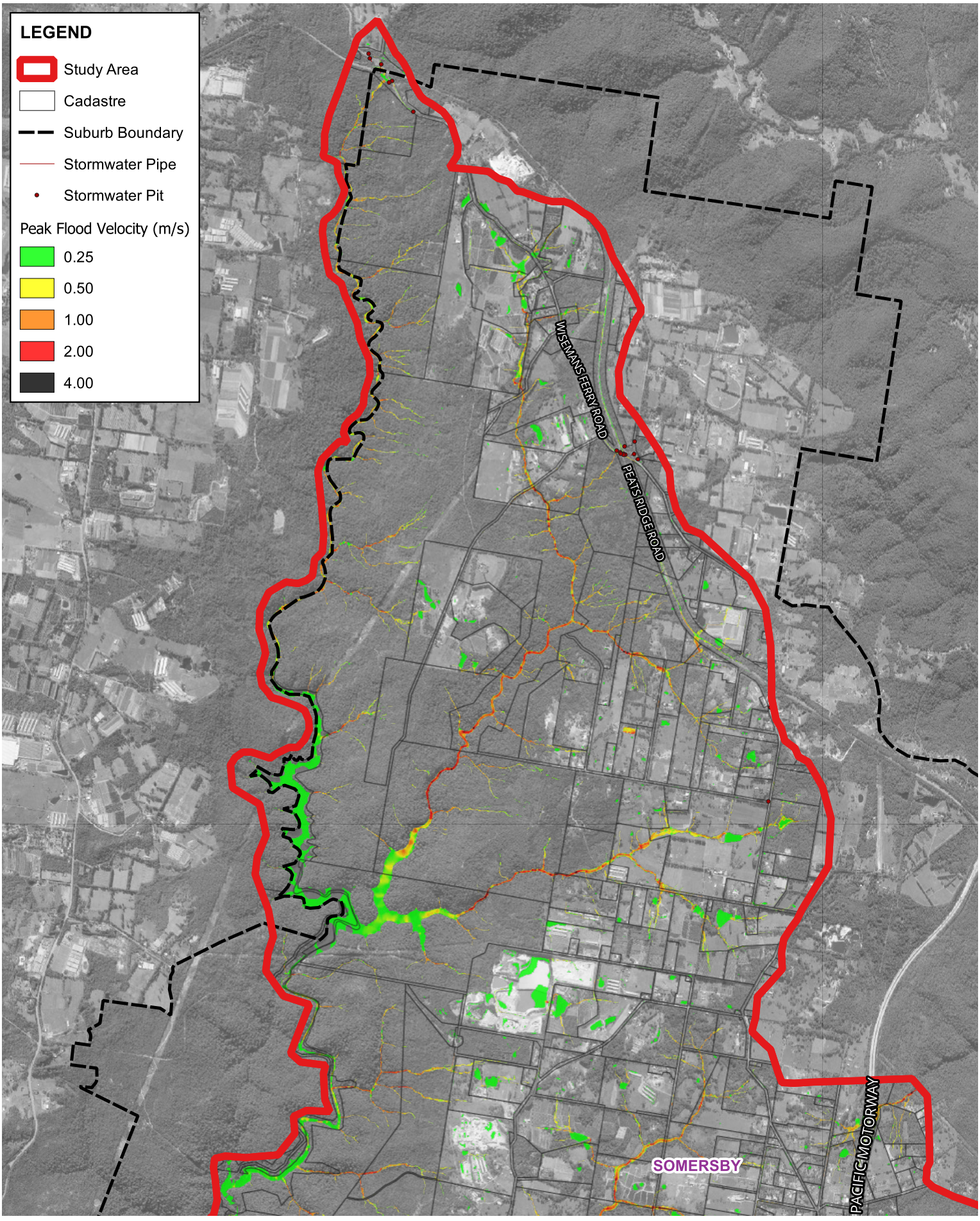
File: \\perfile001\data$\Water_Resources\Projects\SEW353_Kariong_Somersby_Flood_Study\G_GIS\Workspaces\Stage_Final_Draft\MS_Figures.qgz

Scale:

0 0.1 0.2 0.3 0.4 0.5 km

1:20,000

KBR




Title:

# Peak Flood Velocity - Northern Catchment
# 20% AEP Design Event Scenario

Figure: C-51

Rev: 0

Scale at A4 1:40000

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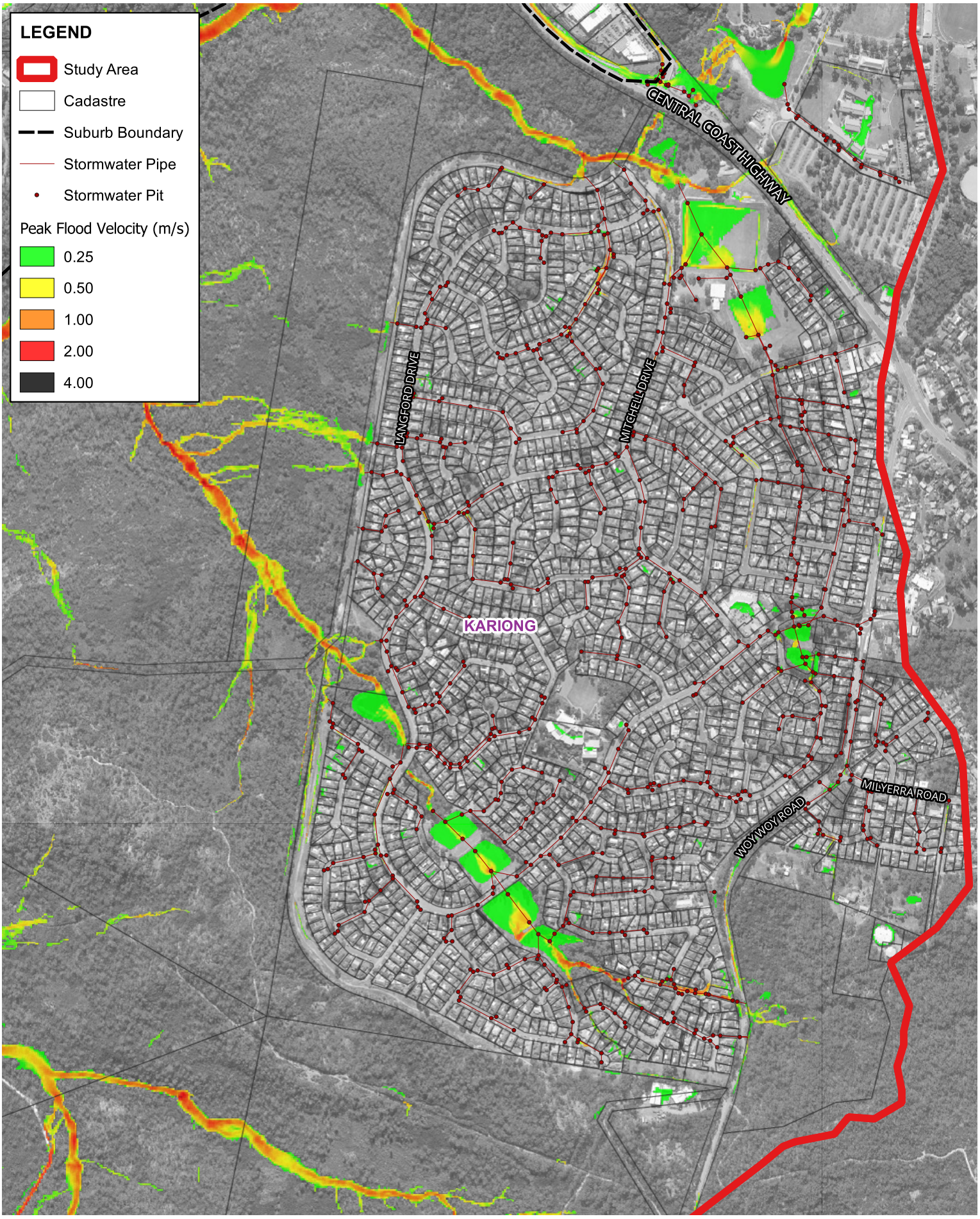
File: \\perfile001\data$\Water_Resources\Projects\SEW353_Kariong_Somersby_Flood_Study\G_GIS\Workspaces\Stage_Final_Draft\MS_Figures.qgz

Scale:

0 0.3 0.6 0.9 1.2 1.5 km

1:40,000

KBR




Title:

# Peak Flood Velocity - Kariong Town
# 10% AEP Design Event Scenario

Figure: C-52

Rev: 0

Scale at A4 1:10000

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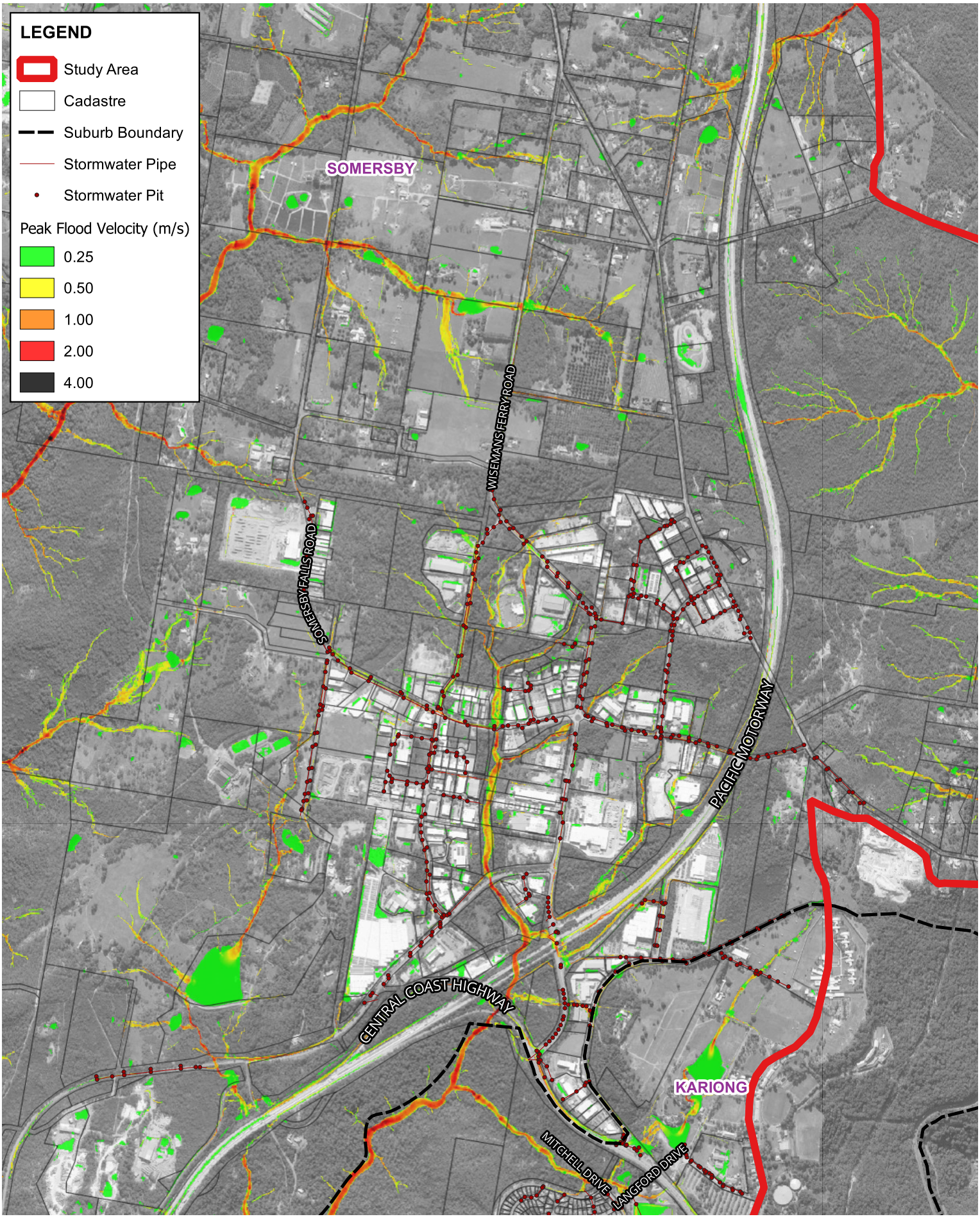
File: \\perfile001\data$\Water_Resources\Projects\SEW353_Kariong_Somersby_Flood_Study\G_GIS\Workspaces\Stage_Final_Draft\MS_Figures.qgz

Scale:

0 0.08 0.16 0.24 0.32 0.4 km

1:10,000




Title:

# Peak Flood Velocity - Somersby Industrial Area
# 10% AEP Design Event Scenario

Figure: C-53

Rev: 0

Scale at A4 1:20000

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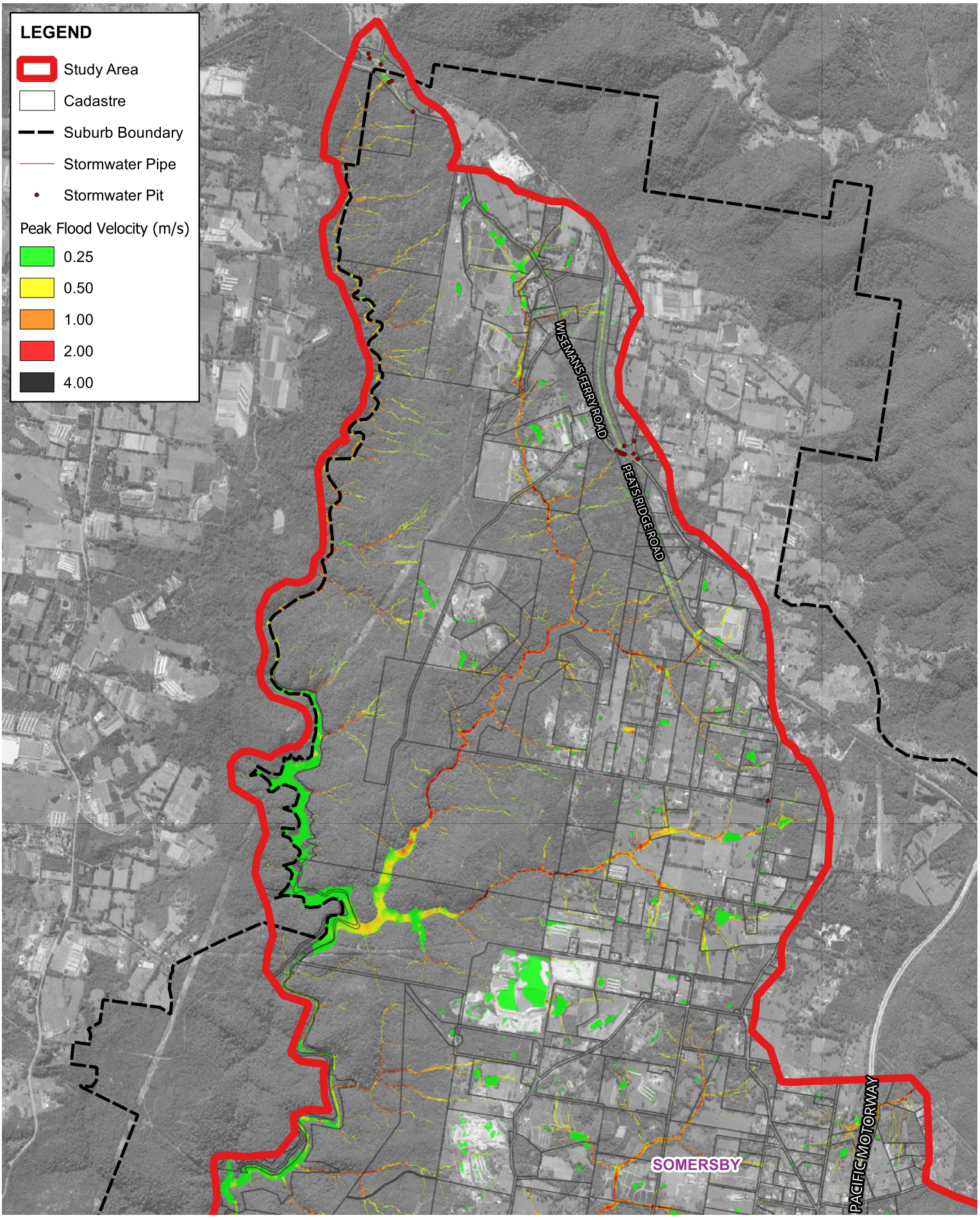
File: \\perfile001\data$\Water_Resources\Projects\SEW353_Kariong_Somersby_Flood_Study\G_GIS\Workspaces\Stage_Final_Draft\MS_Figures.qgz

Scale:

0 0.1 0.2 0.3 0.4 0.5 km

1:20,000

KBR




Title:

# Peak Flood Velocity - Northern Catchment
# 10% AEP Design Event Scenario

Figure: C-54

Rev: 0

Scale at A4 1:40000

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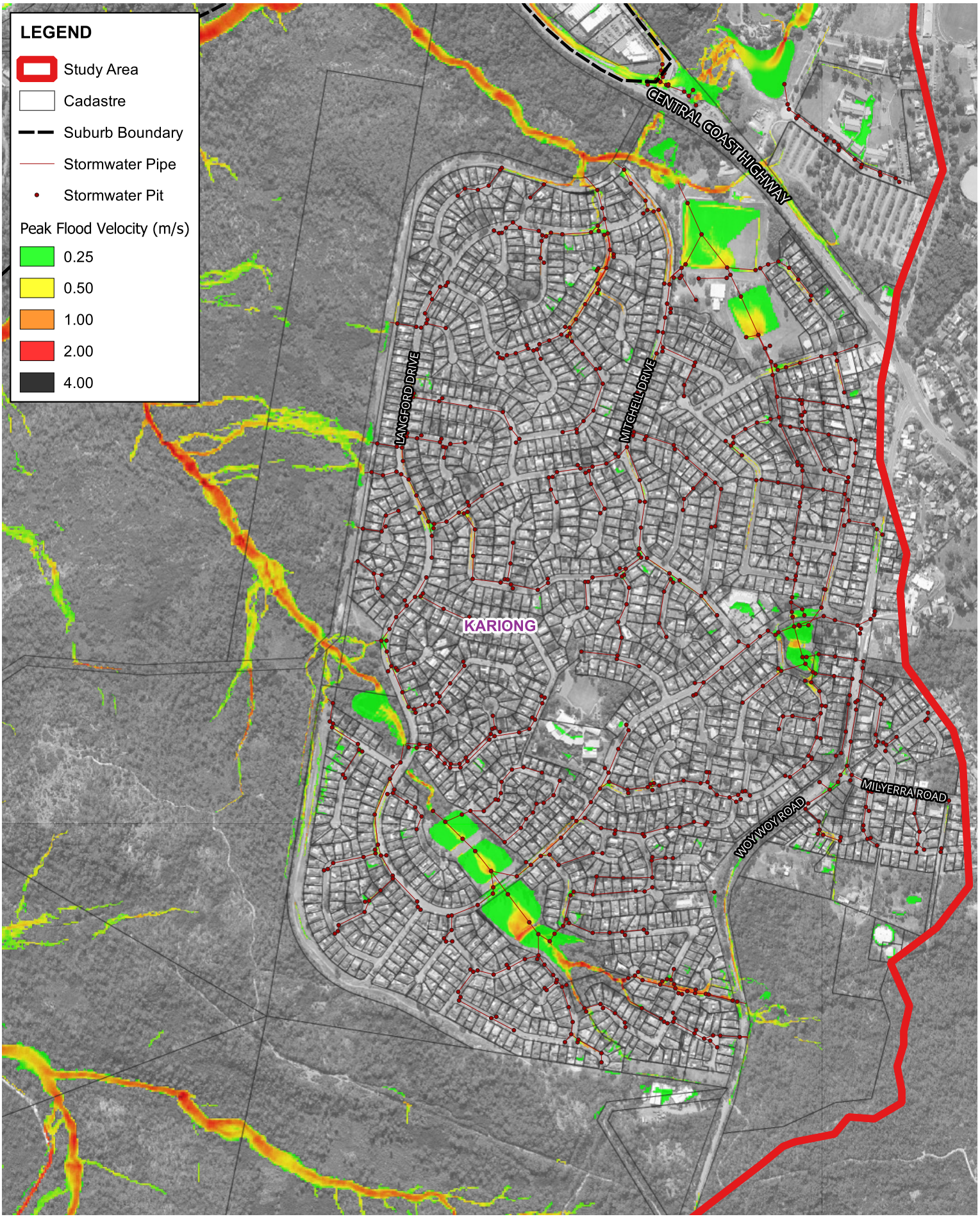
File: \\perfile001\data$\Water_Resources\Projects\SEW353_Kariong_Somersby_Flood_Study\G_GIS\Workspaces\Stage_Final_Draft\MS_Figures.qgz

Scale:

0 0.3 0.6 0.9 1.2 1.5 km

1:40,000

KBR




Title:

# Peak Flood Velocity - Kariong Town
# 5% AEP Design Event Scenario

Figure: C-55

Rev: 0

Scale at A4 1:10000

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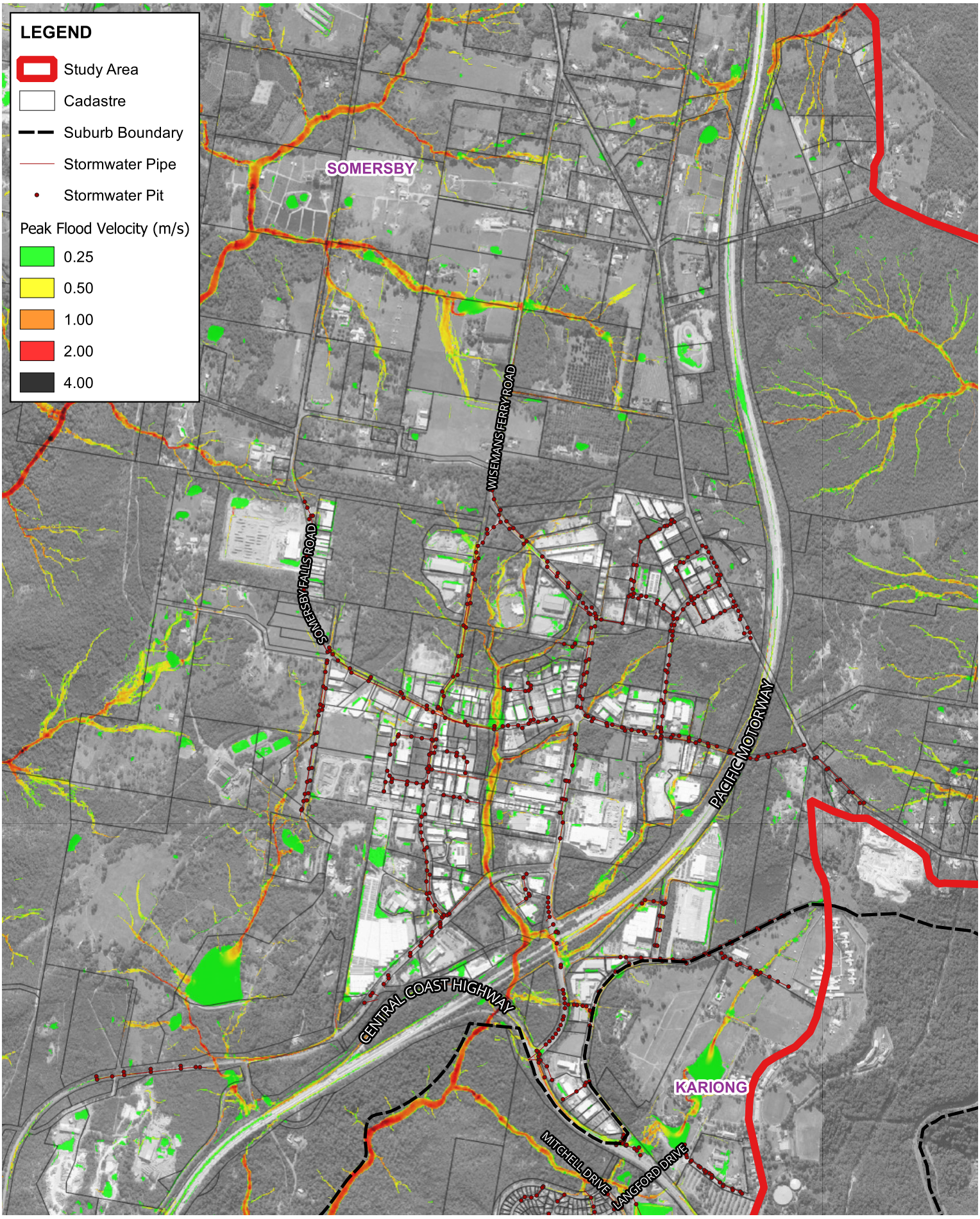
File: \\perfile001\data$\Water_Resources\Projects\SEW353_Kariong_Somersby_Flood_Study\G_GIS\Workspaces\Stage_Final_Draft\MS_Figures.qgz

Scale:

0 0.08 0.16 0.24 0.32 0.4 km

1:10,000




Title:

# Peak Flood Velocity - Somersby Industrial Area
# 5% AEP Design Event Scenario

Figure: C-56

Rev: 0

Scale at A4 1:20000

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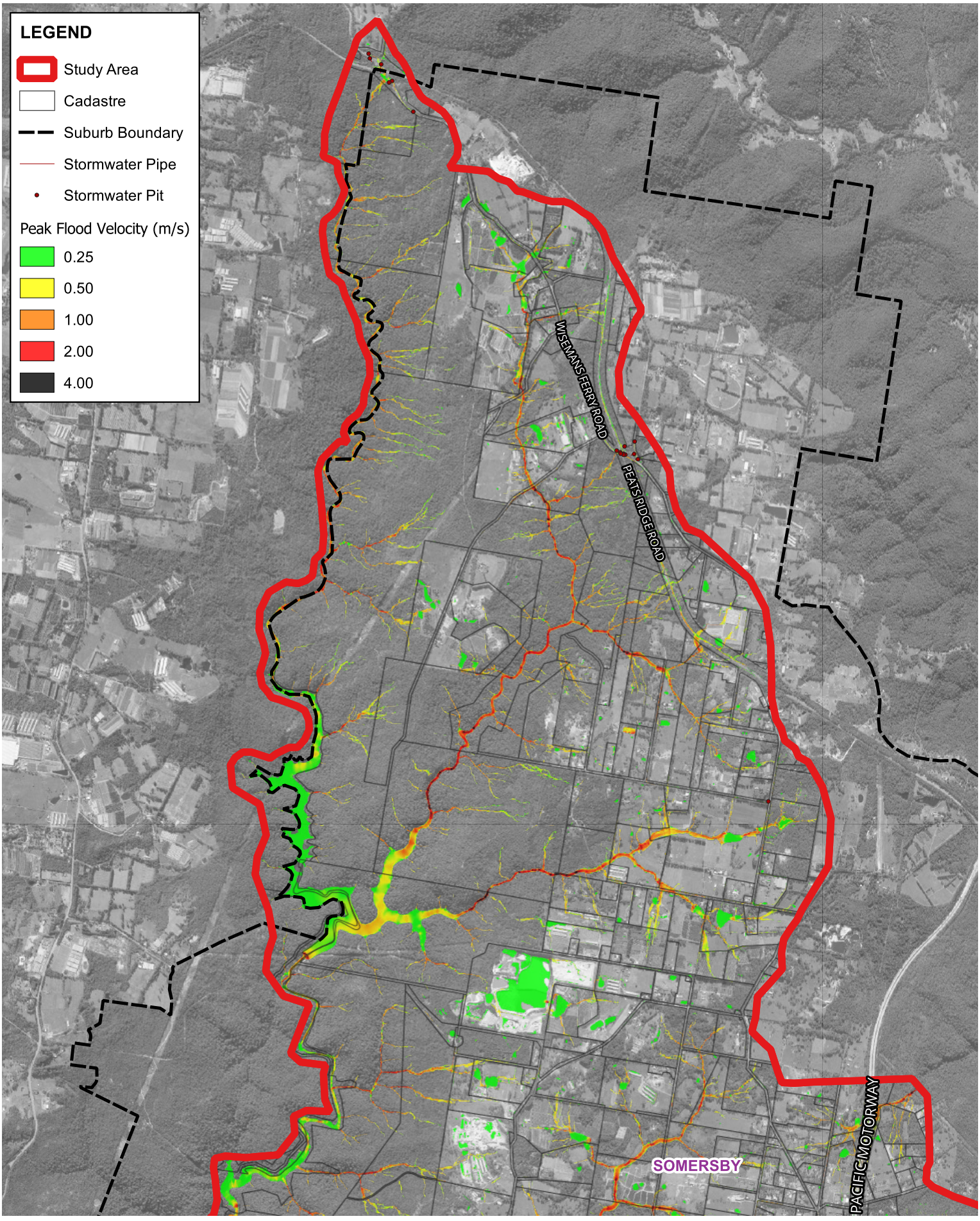
File: \\perfile001\data$\Water_Resources\Projects\SEW353_Kariong_Somersby_Flood_Study\G_GIS\Workspaces\Stage_Final_Draft\MS_Figures.qgz

Scale:

0 0.1 0.2 0.3 0.4 0.5 km

1:20,000

KBR




Title:

# Peak Flood Velocity - Northern Catchment
# 5% AEP Design Event Scenario

Figure: C-57

Rev: 0

Scale at A4 1:40000

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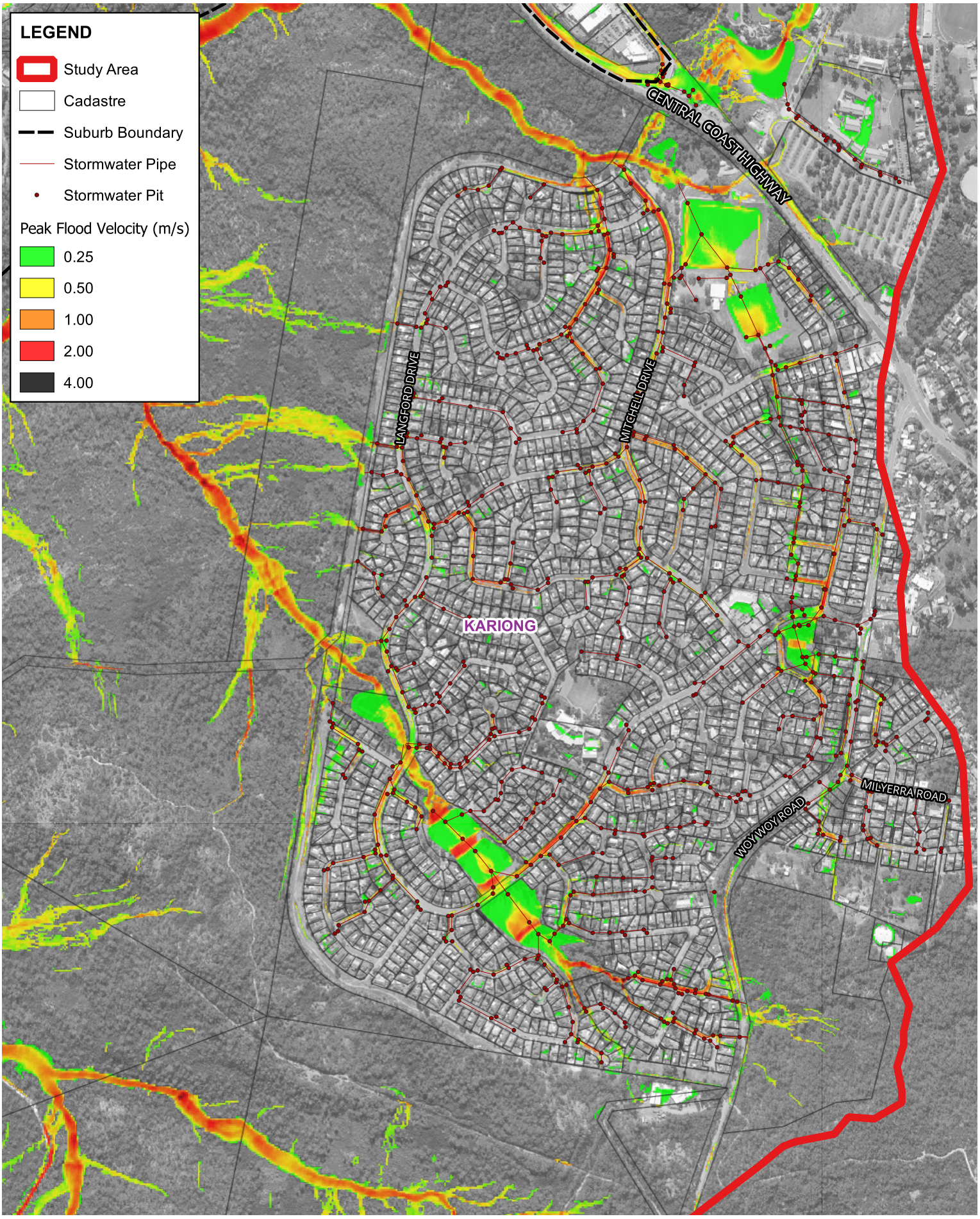
File: \\perfile001\data$\Water_Resources\Projects\SEW353_Kariong_Somersby_Flood_Study\G_GIS\Workspaces\Stage_Final_Draft\MS_Figures.qgz

Scale:

0 0.3 0.6 0.9 1.2 1.5 km

1:40,000




Title:

# Peak Flood Velocity - Kariong Town
# 2% AEP Design Event Scenario

Figure: C-58

Rev: 0

Scale at A4 1:10000

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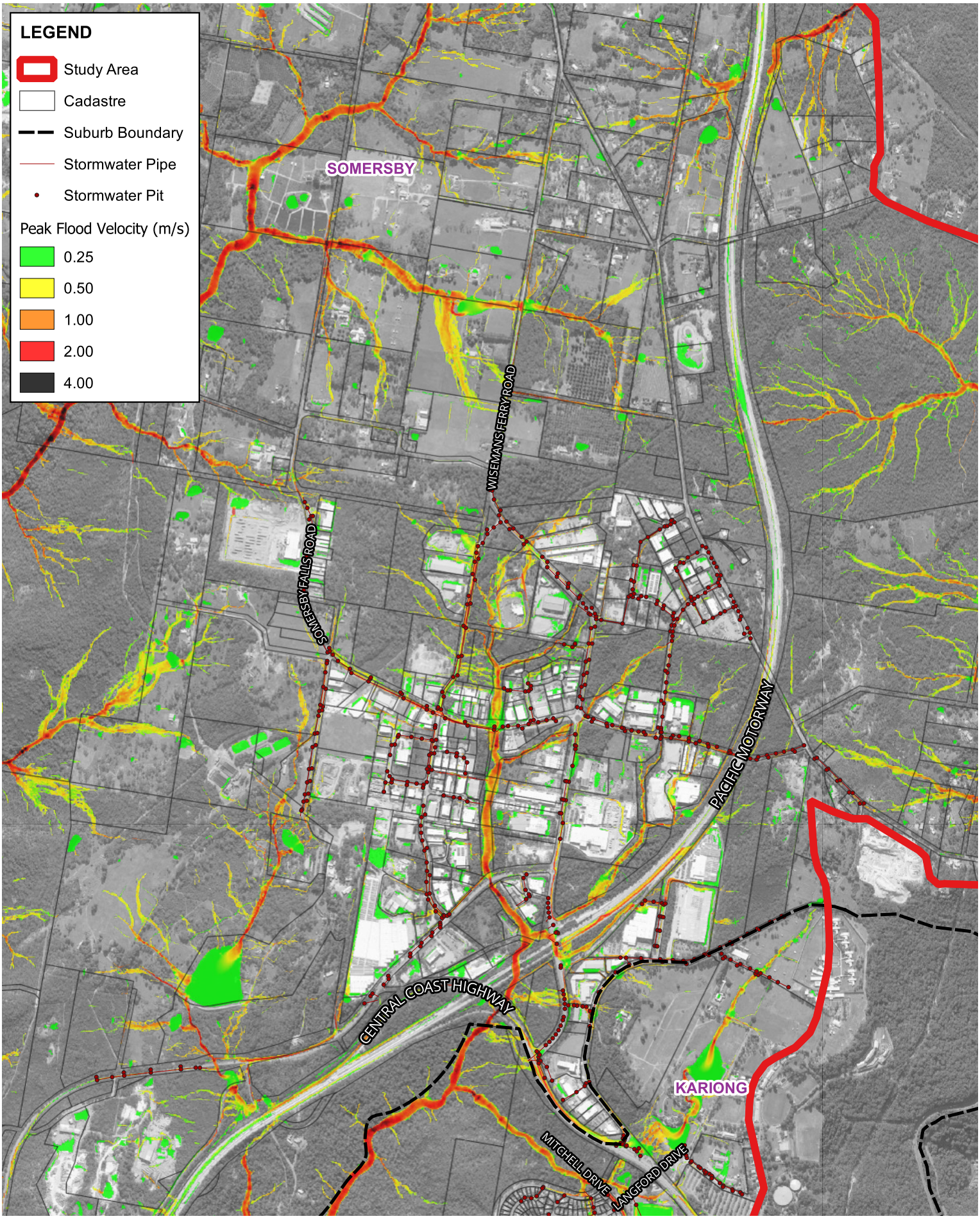
File: \\perfile001\data$\Water_Resources\Projects\SEW353_Kariong_Somersby_Flood_Study\G_GIS\Workspaces\Stage_Final_Draft\MS_Figures.qgz

Scale:

0 0.08 0.16 0.24 0.32 0.4 km

1:10,000

KBR




Title:

# Peak Flood Velocity - Somersby Industrial Area
# 2% AEP Design Event Scenario

Figure: C-59

Rev: 0

Scale at A4 1:20000

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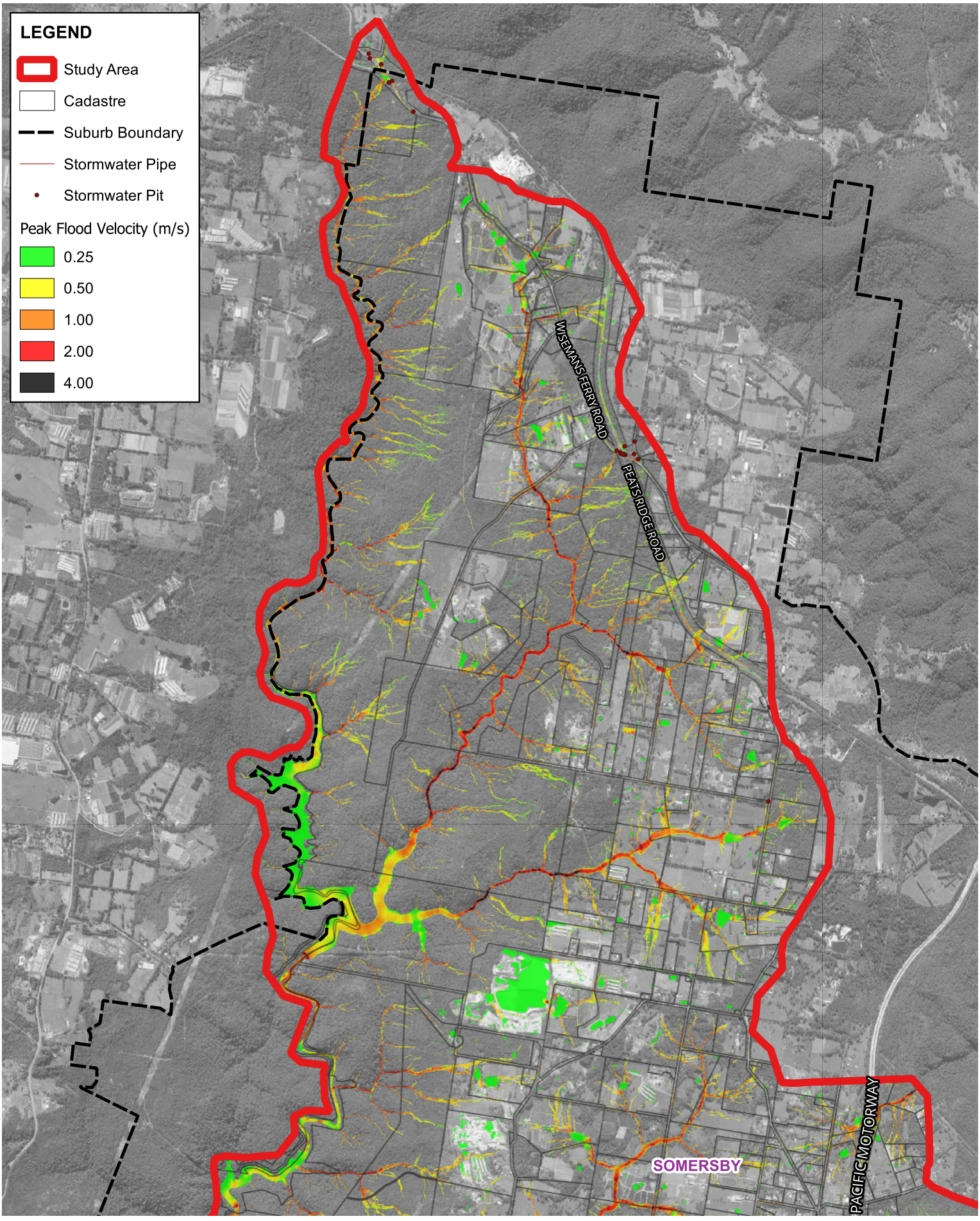
Scale:

0 0.1 0.2 0.3 0.4 0.5 km

1:20,000




Title:

# Peak Flood Velocity - Northern Catchment
# 2% AEP Design Event Scenario

Figure: C-60

Rev: 0

Scale at A4 1:40000

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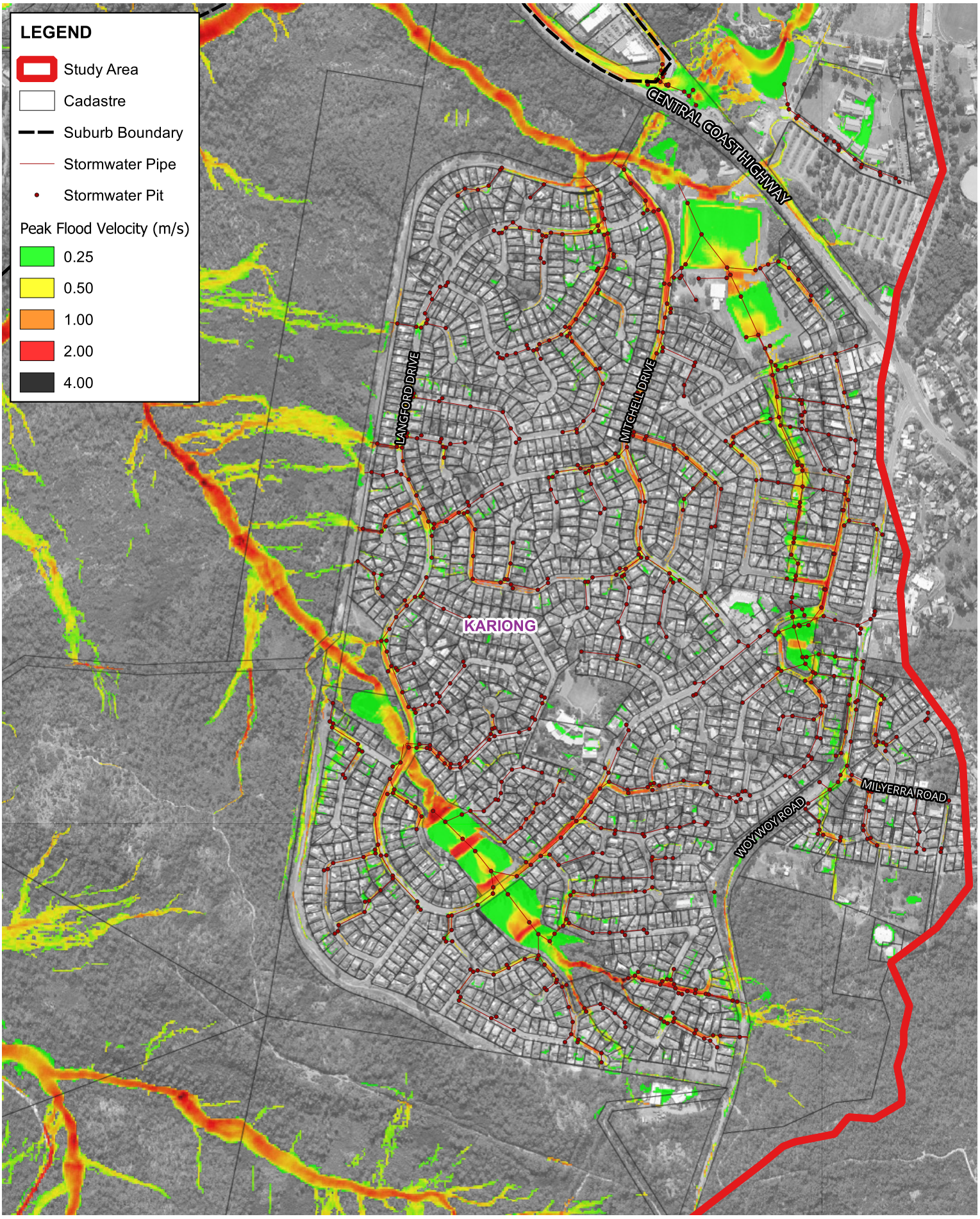
File: \\perfile001\data$\Water_Resources\Projects\SEW353_Kariong_Somersby_Flood_Study\G_GIS\Workspaces\Stage_Final_Draft\MS_Figures.qgz

Scale:

0 0.3 0.6 0.9 1.2 1.5 km

1:40,000




Title:

# Peak Flood Velocity - Kariong Town
# 1 in 100 AEP Design Event Scenario

Figure: C-61

Rev: 0

Scale at A4 1:10000

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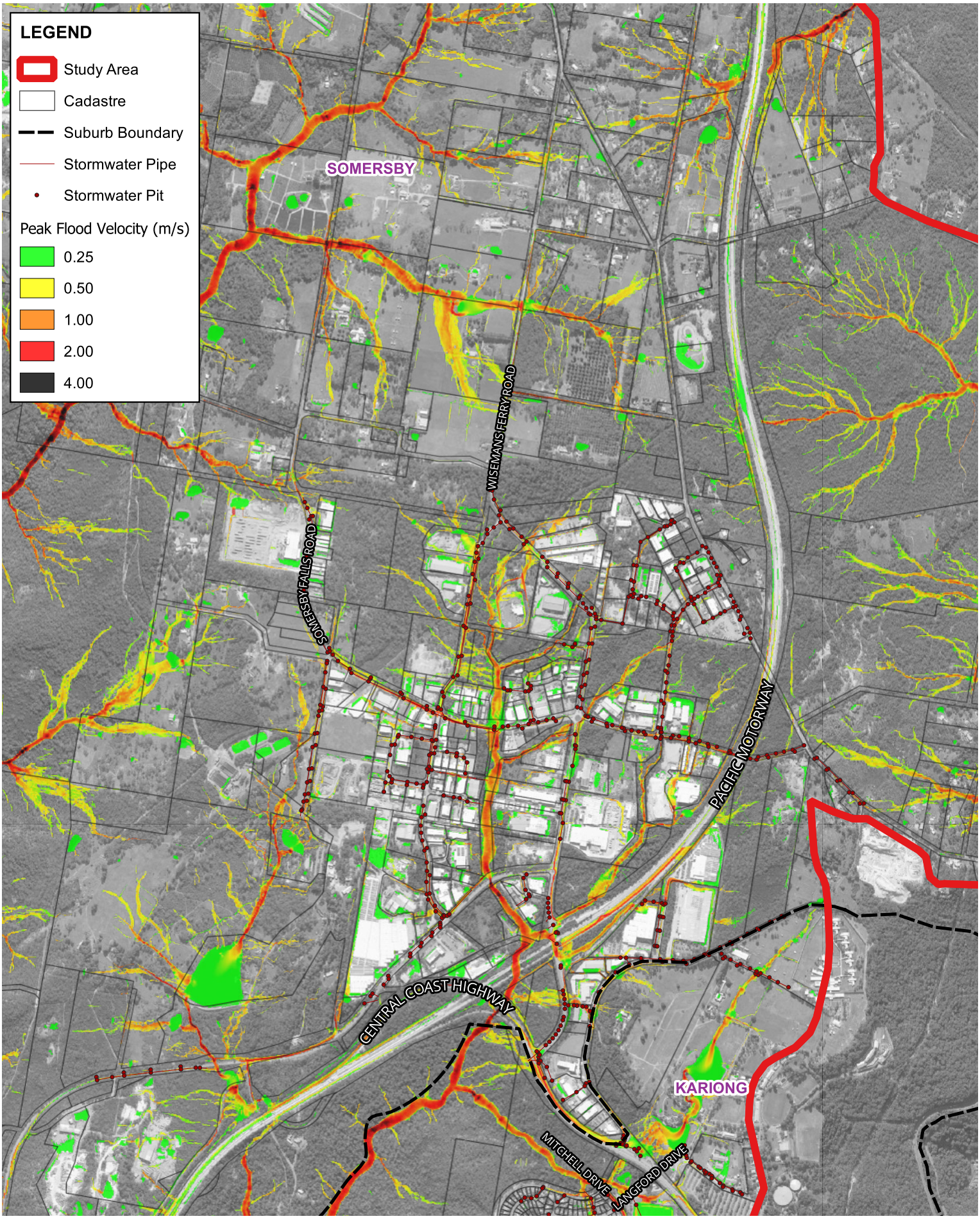
File: \\perfile001\data$\Water_Resources\Projects\SEW353_Kariong_Somersby_Flood_Study\G_GIS\Workspaces\Stage_Final_Draft\MS_Figures.qgz

Scale:

0 0.08 0.16 0.24 0.32 0.4 km

1:10,000




Title:

# Peak Flood Velocity - Somersby Industrial Area
# 1 in 100 AEP Design Event Scenario

Figure: C-62

Rev: 0

Scale at A4 1:20000

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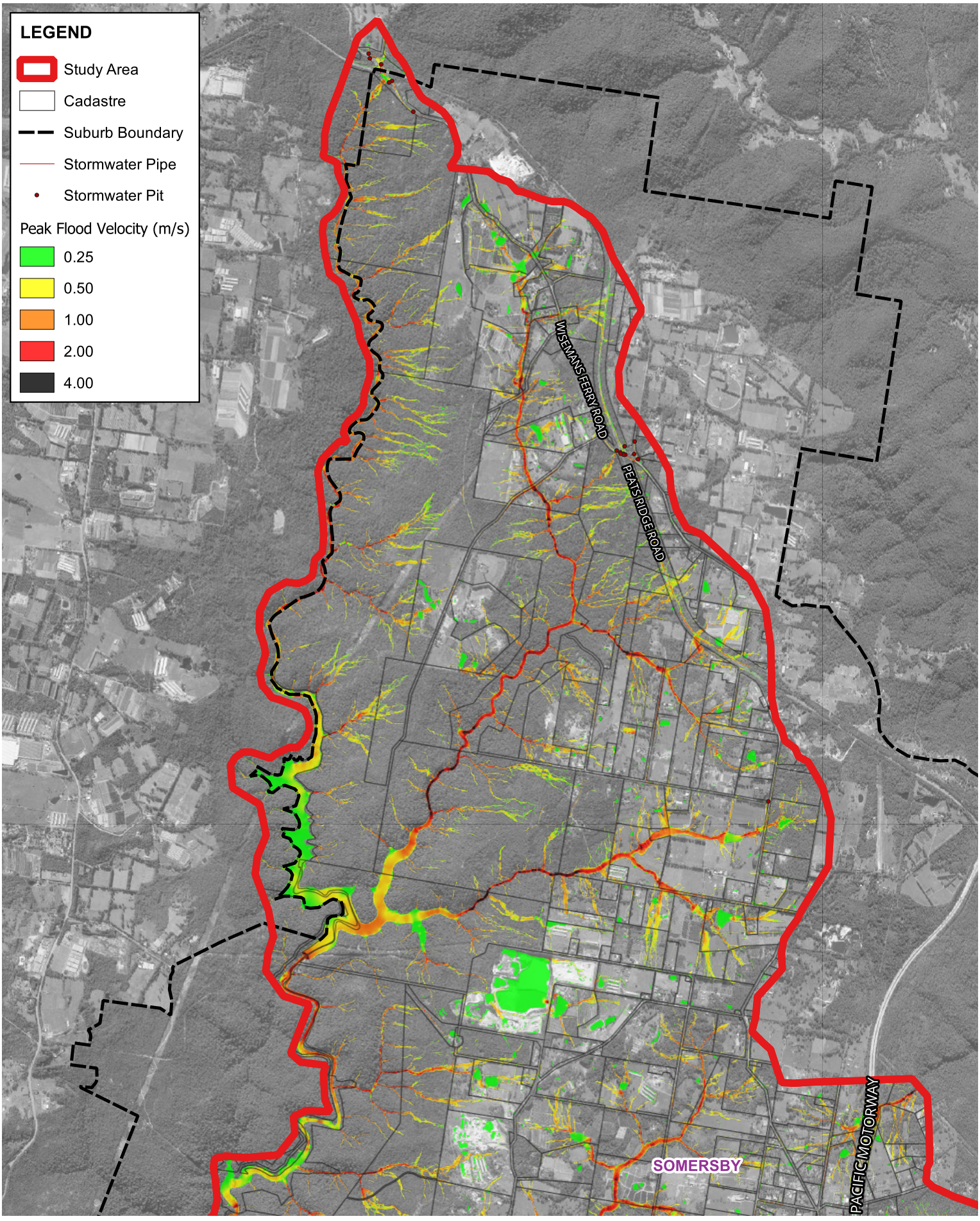
Scale:

0 0.1 0.2 0.3 0.4 0.5 km

1:20,000

KBR




Title:

# Peak Flood Velocity - Northern Catchment
# 1 in 100 AEP Design Event Scenario

Figure: C-63

Rev: 0

Scale at A4 1:40000
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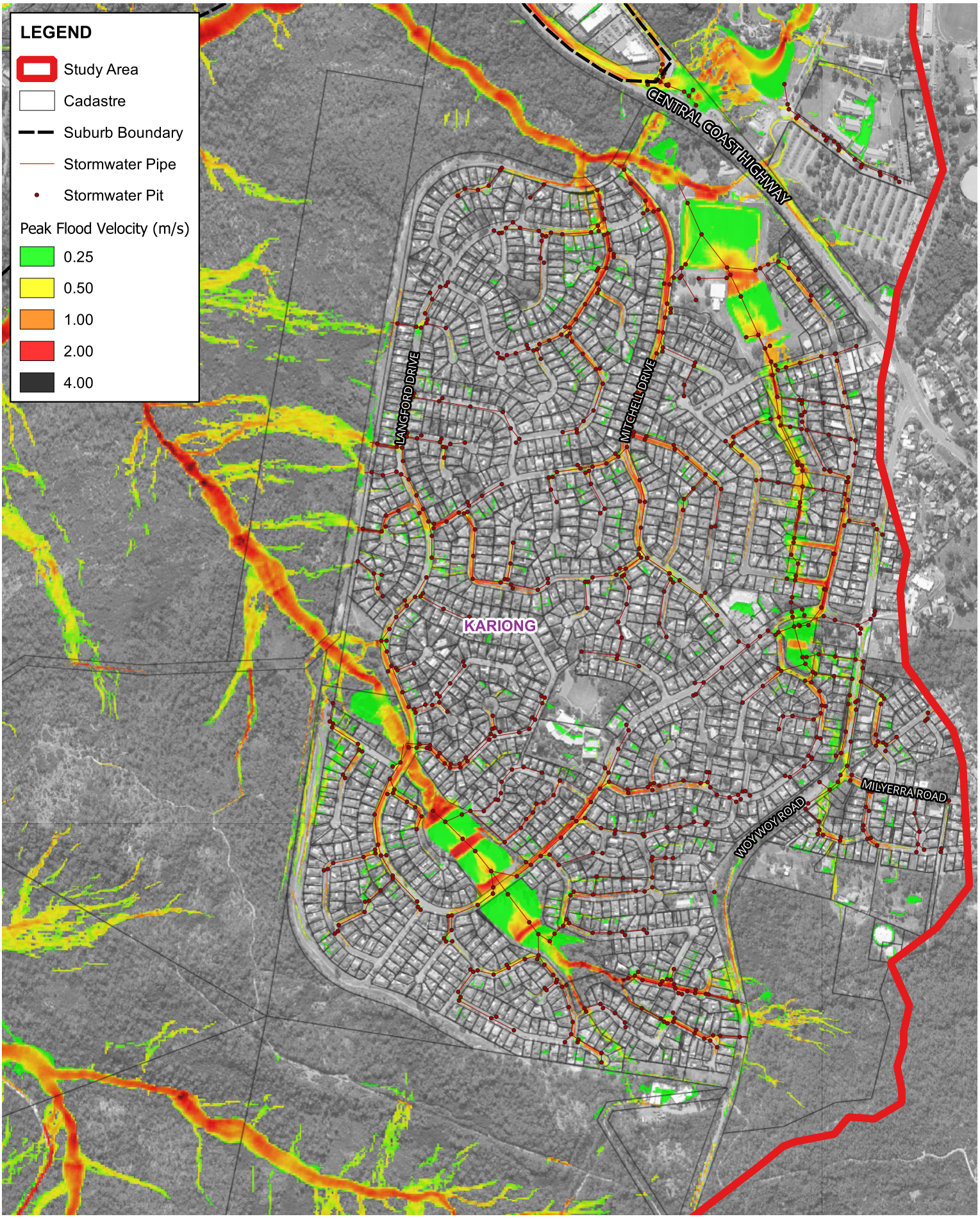
File: \\perfile001\data$\Water_Resources\Projects\SEW353_Kariong_Somersby_Flood_Study\G_GIS\Workspaces\Stage_Final_Draft\MS_Figures.qgz

Scale:

0 0.3 0.6 0.9 1.2 1.5 km

1:40,000

KBR




Title:

# Peak Flood Velocity - Kariong Town
# 1 in 200 AEP Design Event Scenario

Figure: C-64

Rev: 0

Scale at A4 1:10000

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File: \\perfile001\data$\Water_Resources\Projects\SEW353_Kariong_Somersby_Flood_Study\G_GIS\Workspaces\Stage_Final_Draft\MS_Figures.qgz

Scale:

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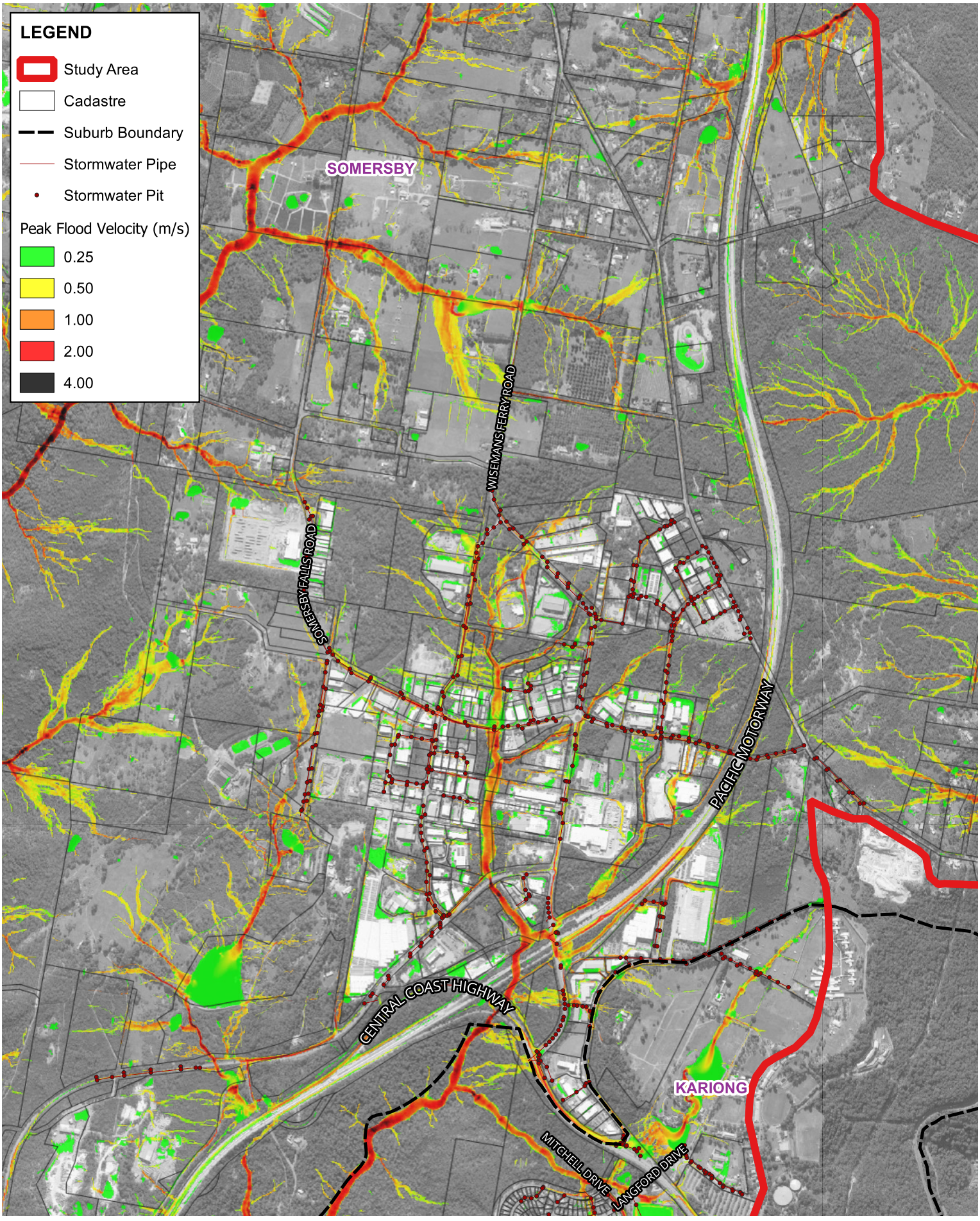
1:10,000




Title:

# Peak Flood Velocity - Somersby Industrial Area
# 1 in 200 AEP Design Event Scenario

Figure: C-65

Rev: 0

Scale at A4 1:20000

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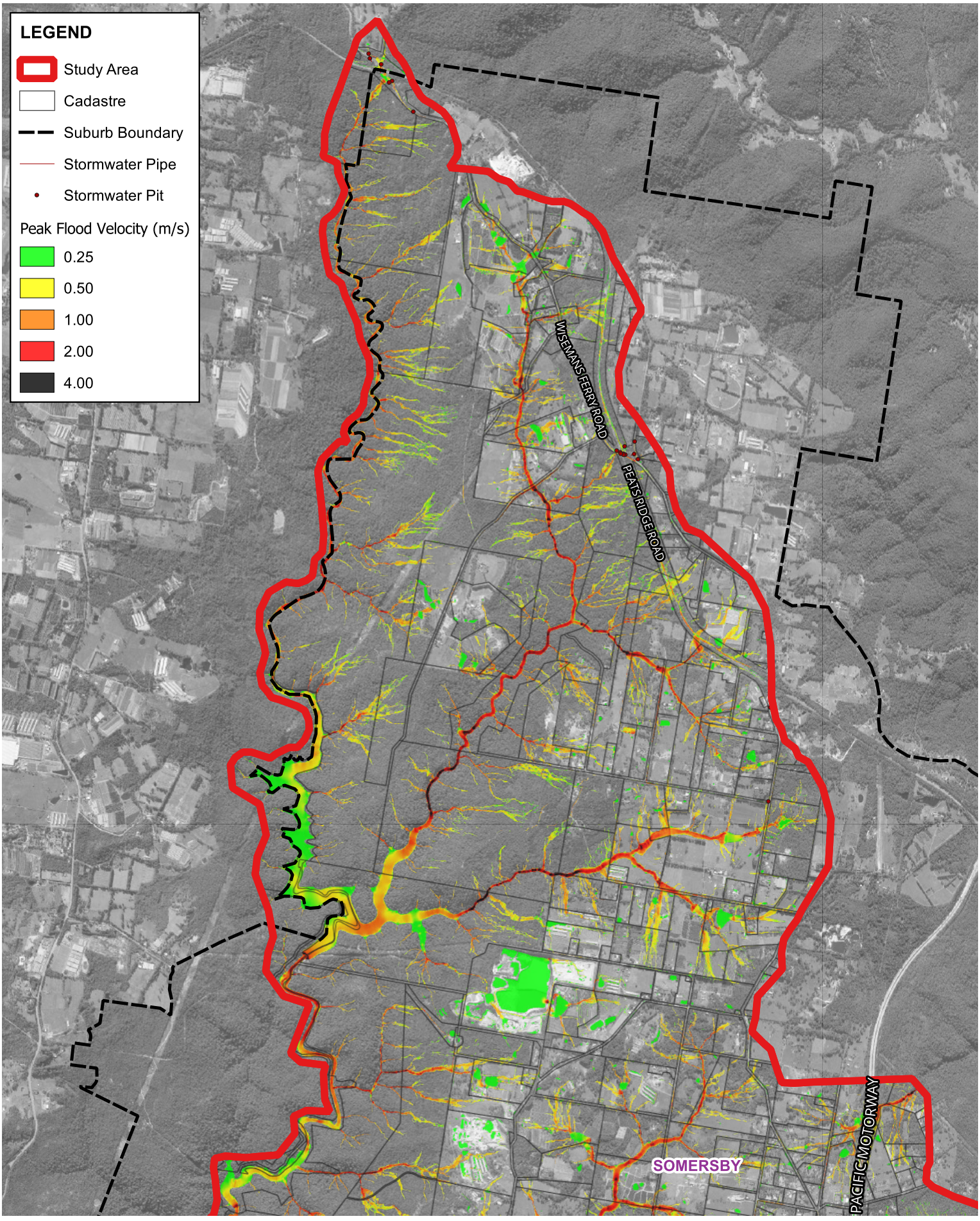
File: \\perfile001\data$\Water_Resources\Projects\SEW353_Kariong_Somersby_Flood_Study\G_GIS\Workspaces\Stage_Final_Draft\MS_Figures.qgz

Scale:

0 0.1 0.2 0.3 0.4 0.5 km

1:20,000

KBR




Title:

# Peak Flood Velocity - Northern Catchment
# 1 in 200 AEP Design Event Scenario

Figure: C-66

Rev: 0

Scale at A4 1:40000

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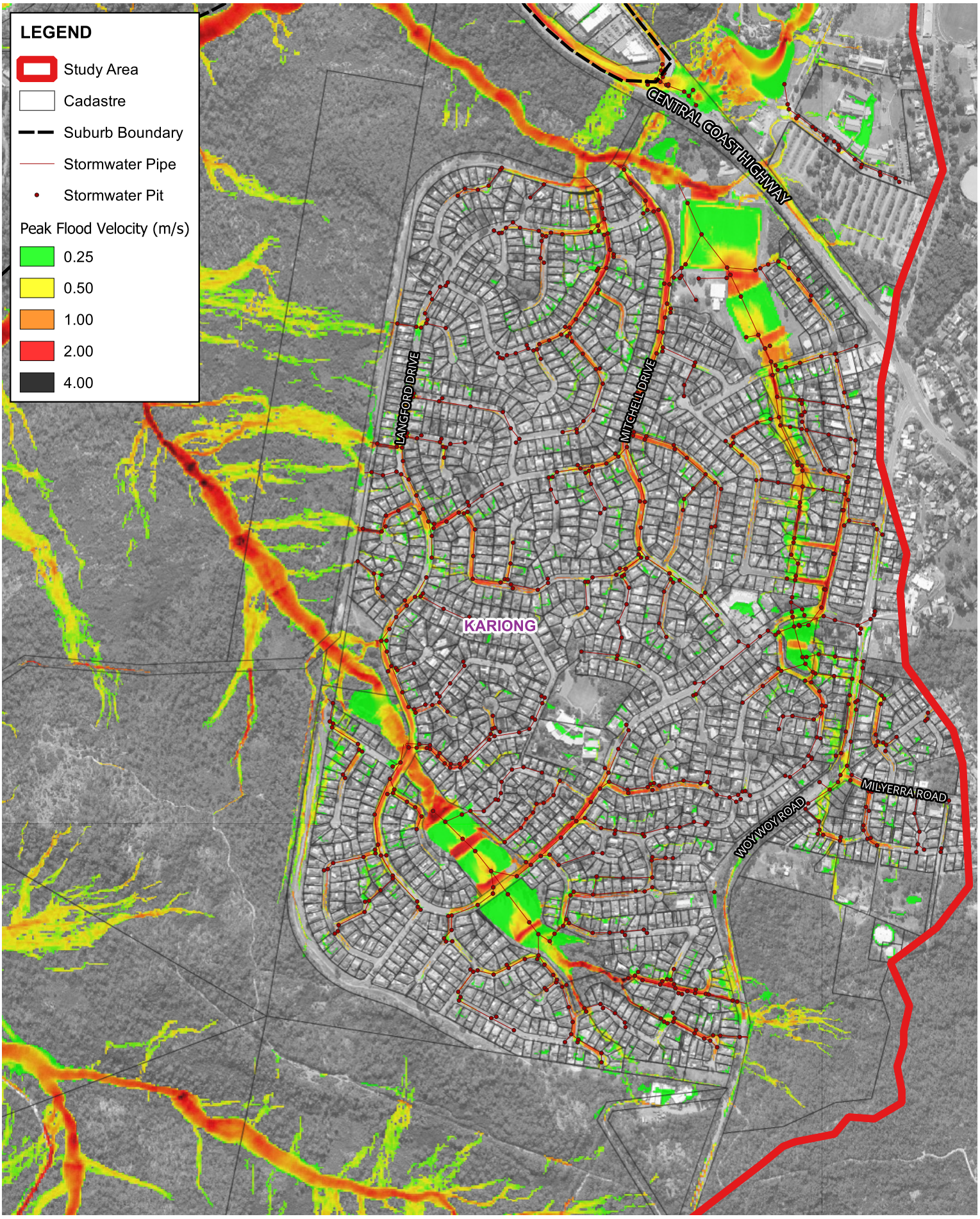
File: \\perfile001\data$\Water_Resources\Projects\SEW353_Kariong_Somersby_Flood_Study\G_GIS\Workspaces\Stage_Final_Draft\MS_Figures.qgz

Scale:

0 0.3 0.6 0.9 1.2 1.5 km

1:40,000




Title:

# Peak Flood Velocity - Kariong Town
# 1 in 500 AEP Design Event Scenario

Figure: C-67

Rev: 0

Scale at A4 1:10000

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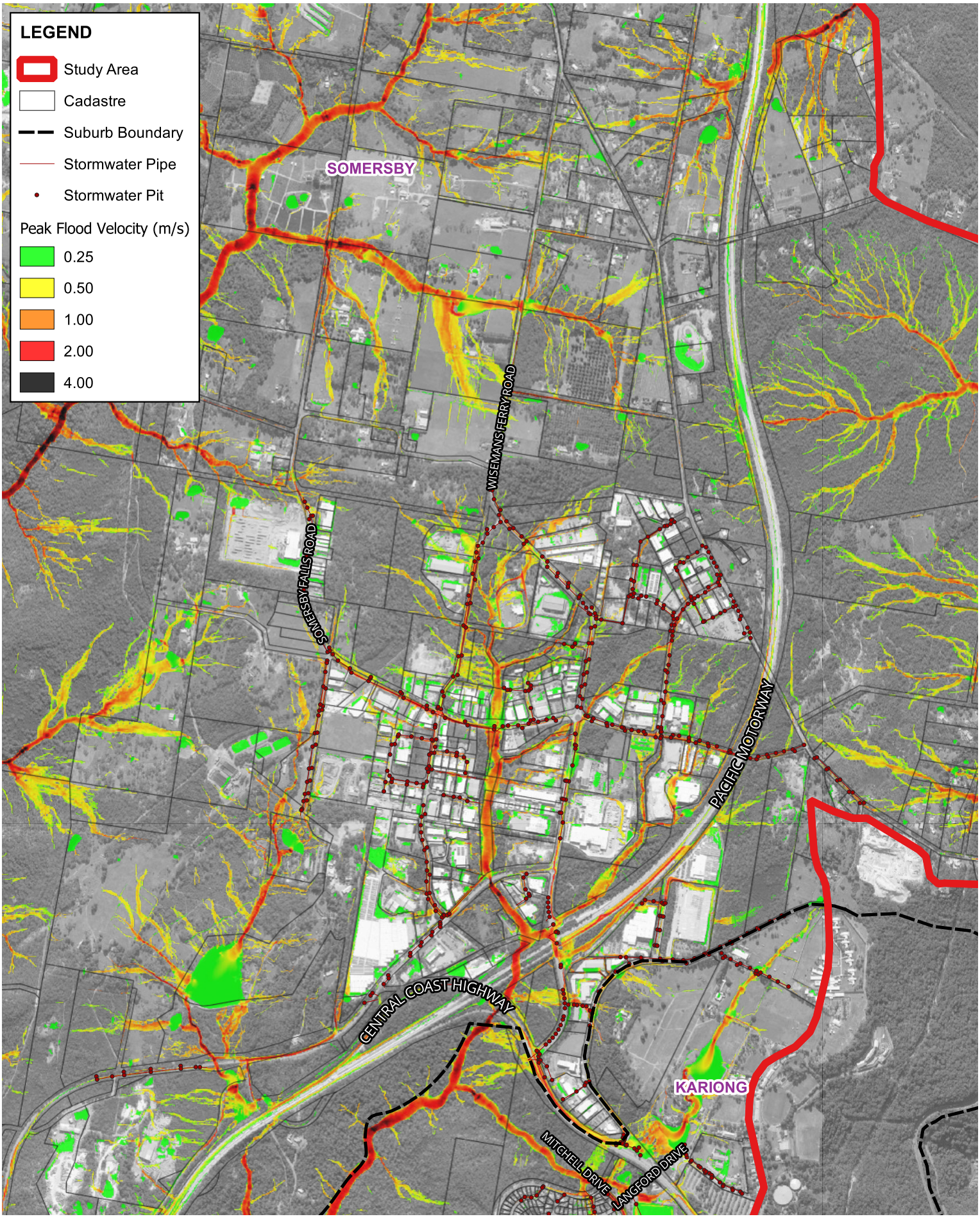
File: \\perfile001\data$\Water_Resources\Projects\SEW353_Kariong_Somersby_Flood_Study\G_GIS\Workspaces\Stage_Final_Draft\MS_Figures.qgz

Scale:

0 0.08 0.16 0.24 0.32 0.4 km

1:10,000




Title:

# Peak Flood Velocity - Somersby Industrial Area
# 1 in 500 AEP Design Event Scenario

Figure: C-68

Rev: 0

Scale at A4 1:20000
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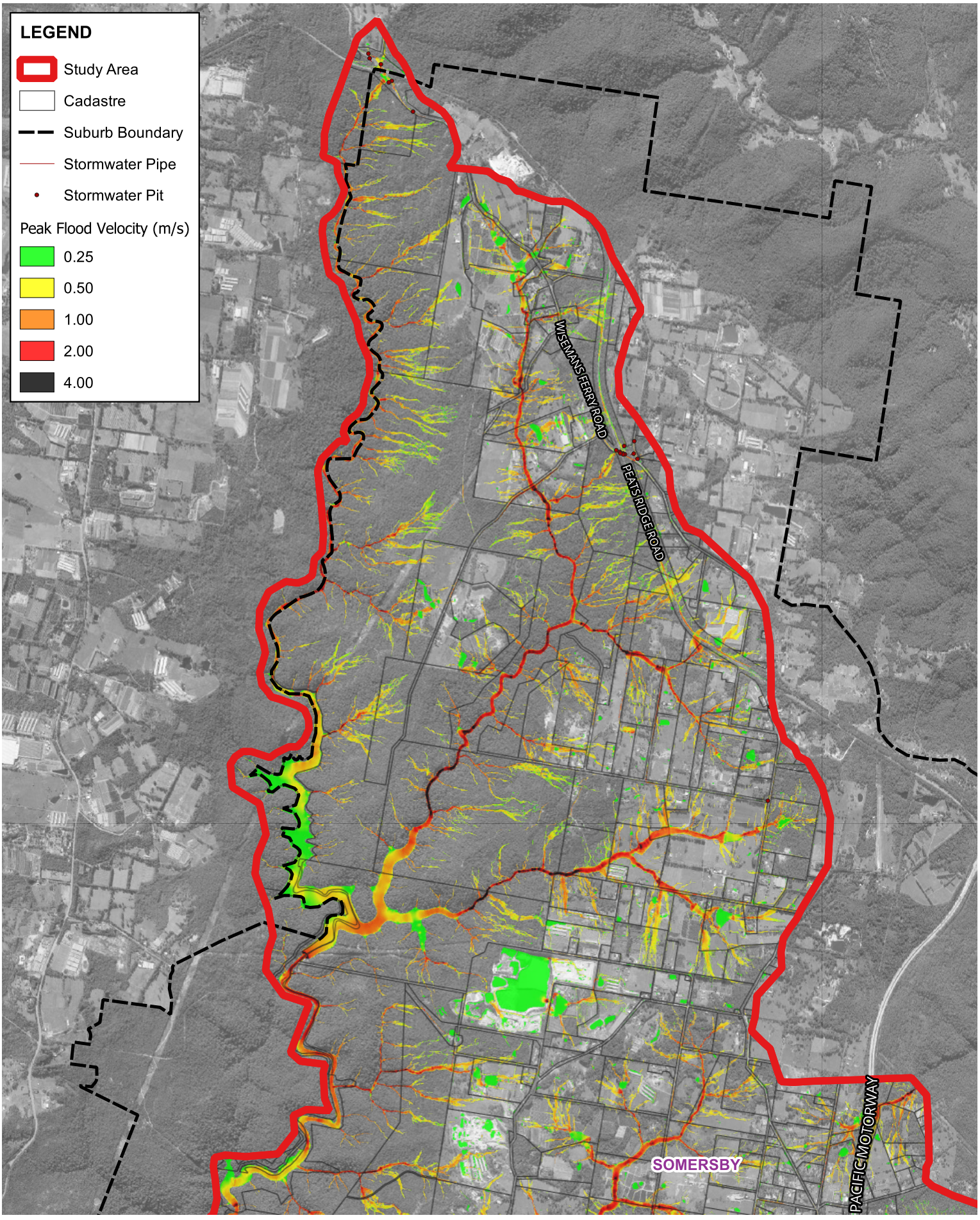
File: \\perfile001\data$\Water_Resources\Projects\SEW353_Kariong_Somersby_Flood_Study\G_GIS\Workspaces\Stage_Final_Draft\MS_Figures.qgz

Scale:

0 0.1 0.2 0.3 0.4 0.5 km

1:20,000

KBR




Title:

# Peak Flood Velocity - Northern Catchment
# 1 in 500 AEP Design Event Scenario

Figure: C-69

Rev: 0

Scale at A4 1:40000
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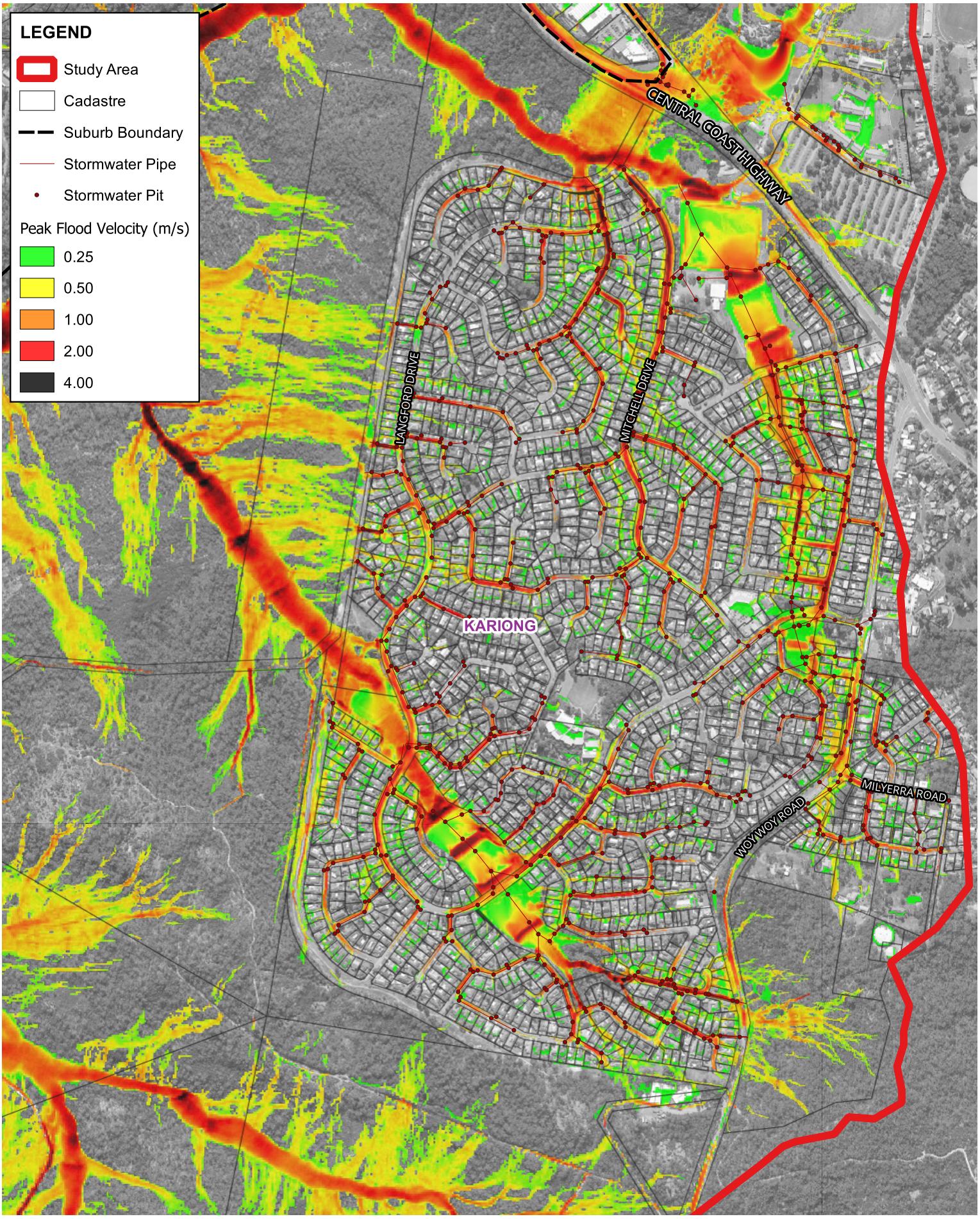
File: \\perfile001\data$\Water_Resources\Projects\SEW353_Kariong_Somersby_Flood_Study\G_GIS\Workspaces\Stage_Final_Draft\MS_Figures.qgz

Scale:

0 0.3 0.6 0.9 1.2 1.5 km

1:40,000

KBR




Title:

# Peak Flood Velocity - Kariong Town
# PMF Design Event Scenario

Figure: C-70

Rev: 0

Scale at A4 1:10000

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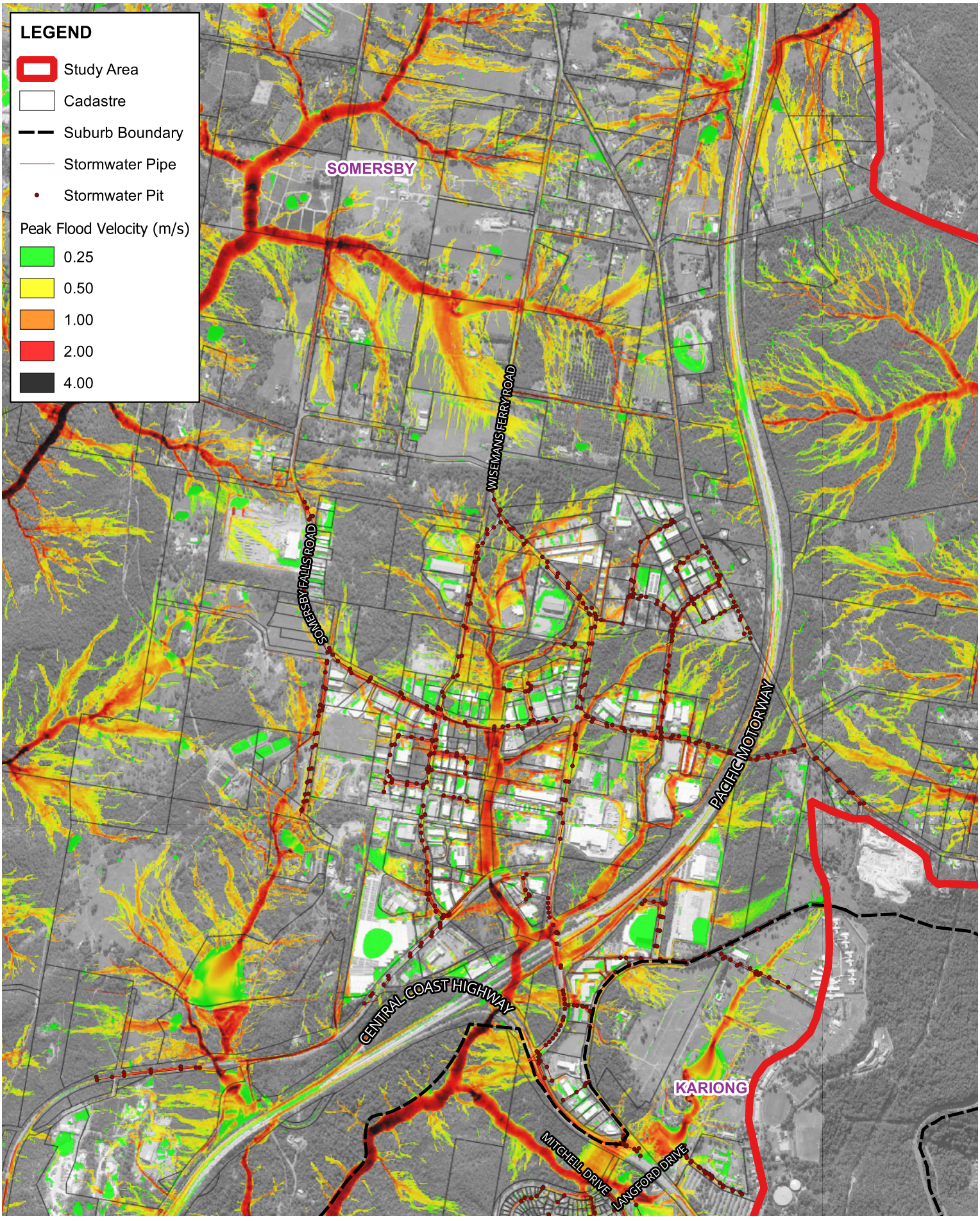
File: \\perfile001\data$\Water_Resources\Projects\SEW353_Kariong_Somersby_Flood_Study\G_GIS\Workspaces\Stage_Final_Draft\MS_Figures.qgz

Scale:

0 0.08 0.16 0.24 0.32 0.4 km

1:10,000

KBR




Title:

# Peak Flood Velocity - Somersby Industrial Area
# PMF Design Event Scenario

Figure: C-71

Rev: 0

Scale at A4 1:20000

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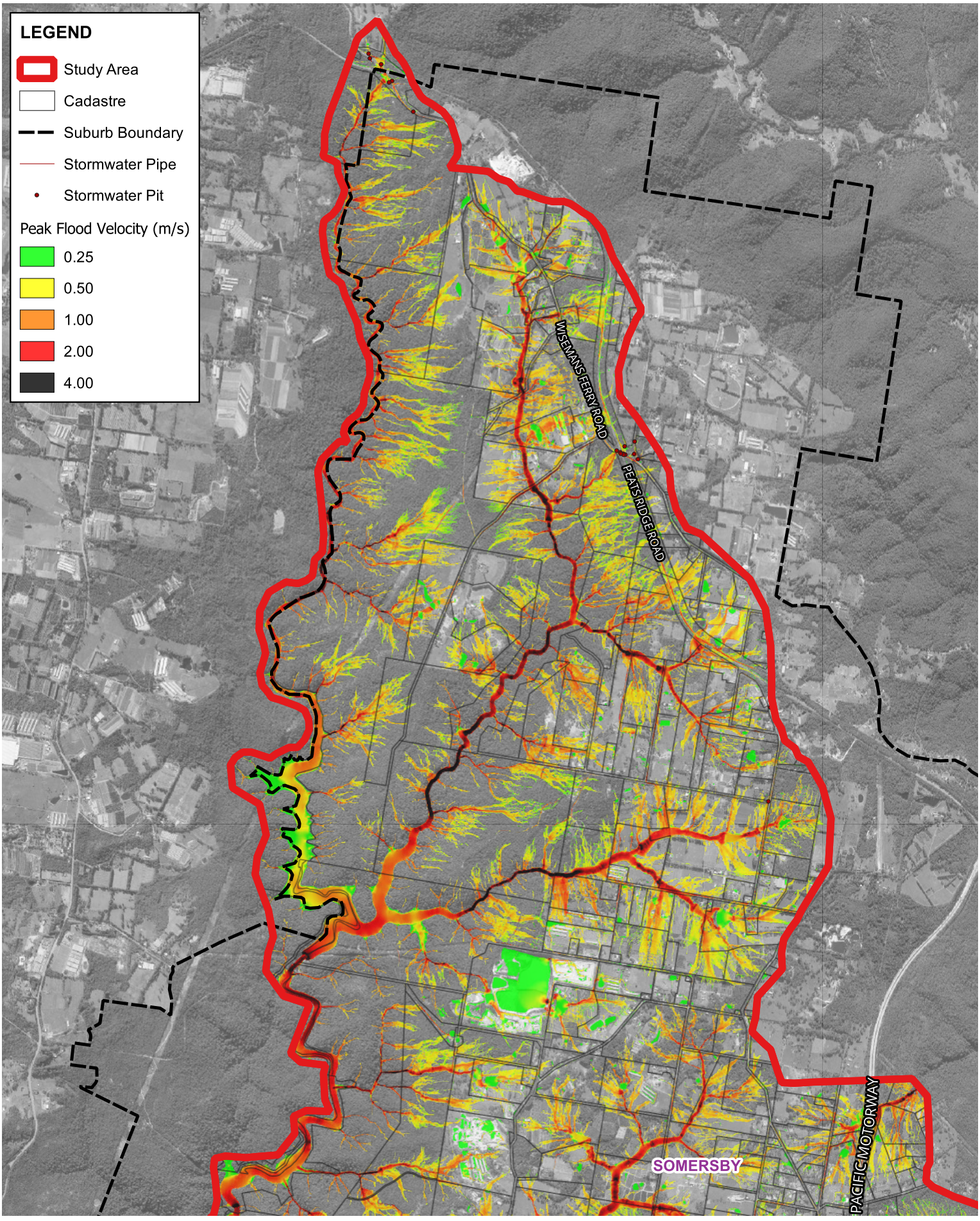
File: \\perfile001\data$\Water_Resources\Projects\SEW353_Kariong_Somersby_Flood_Study\G_GIS\Workspaces\Stage_Final_Draft\MS_Figures.qgz

Scale:

0 0.1 0.2 0.3 0.4 0.5 km

1:20,000

KBR




Title:

# Peak Flood Velocity - Northern Catchment PMF Design Event Scenario

Figure: C-72

Rev: 0

Scale at A4 1:40000

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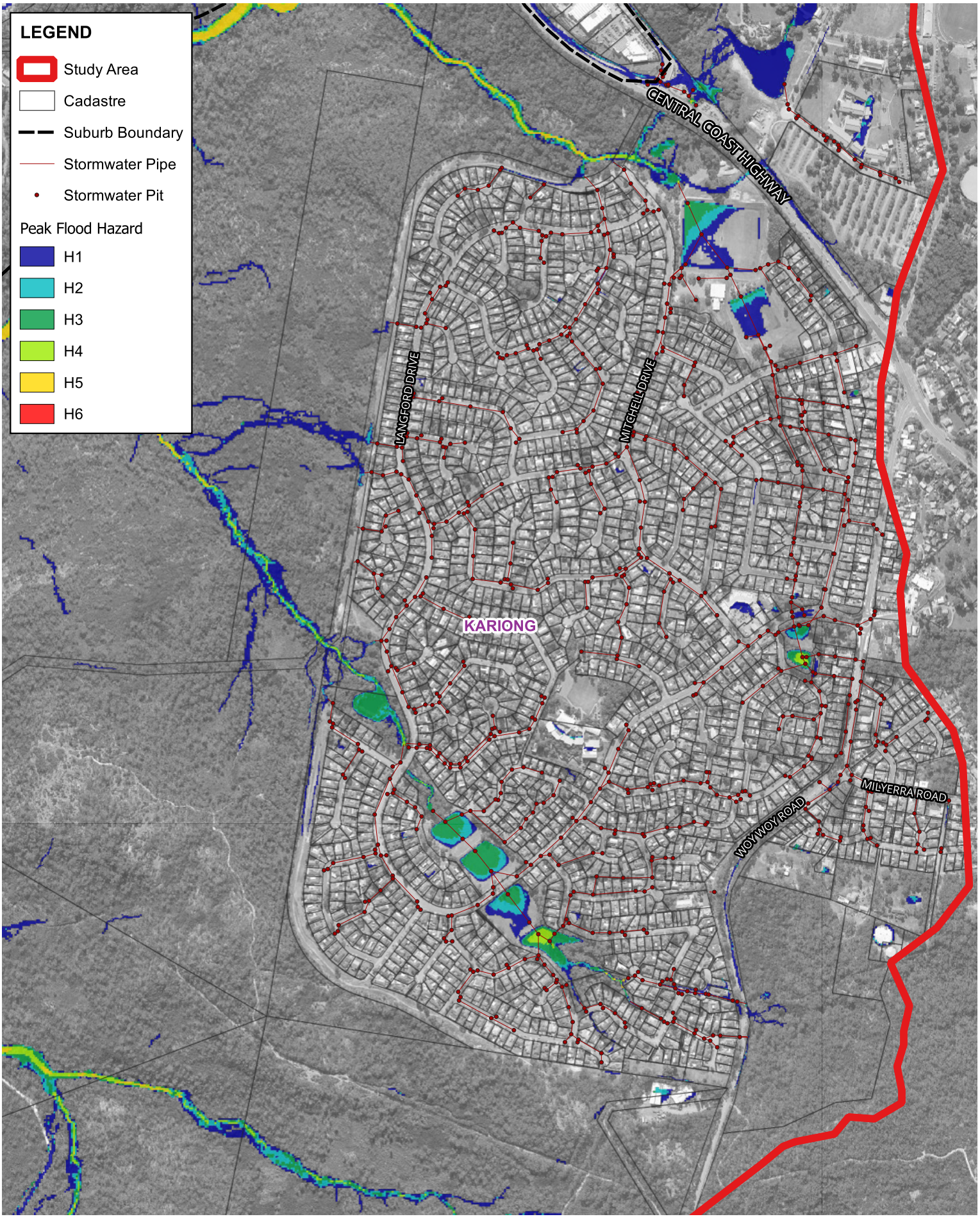
File: \\perfile001\data$\Water_Resources\Projects\SEW353_Kariong_Somersby_Flood_Study\G_GIS\Workspaces\Stage_Final_Draft\MS_Figures.qgz

Scale:

0 0.3 0.6 0.9 1.2 1.5 km

1:40,000

KBR




Title:

# Peak Flood Hazard - Kariong Town
# 20% AEP Design Event Scenario

Figure: C-73

Rev: 0

Scale at A4 1:10000

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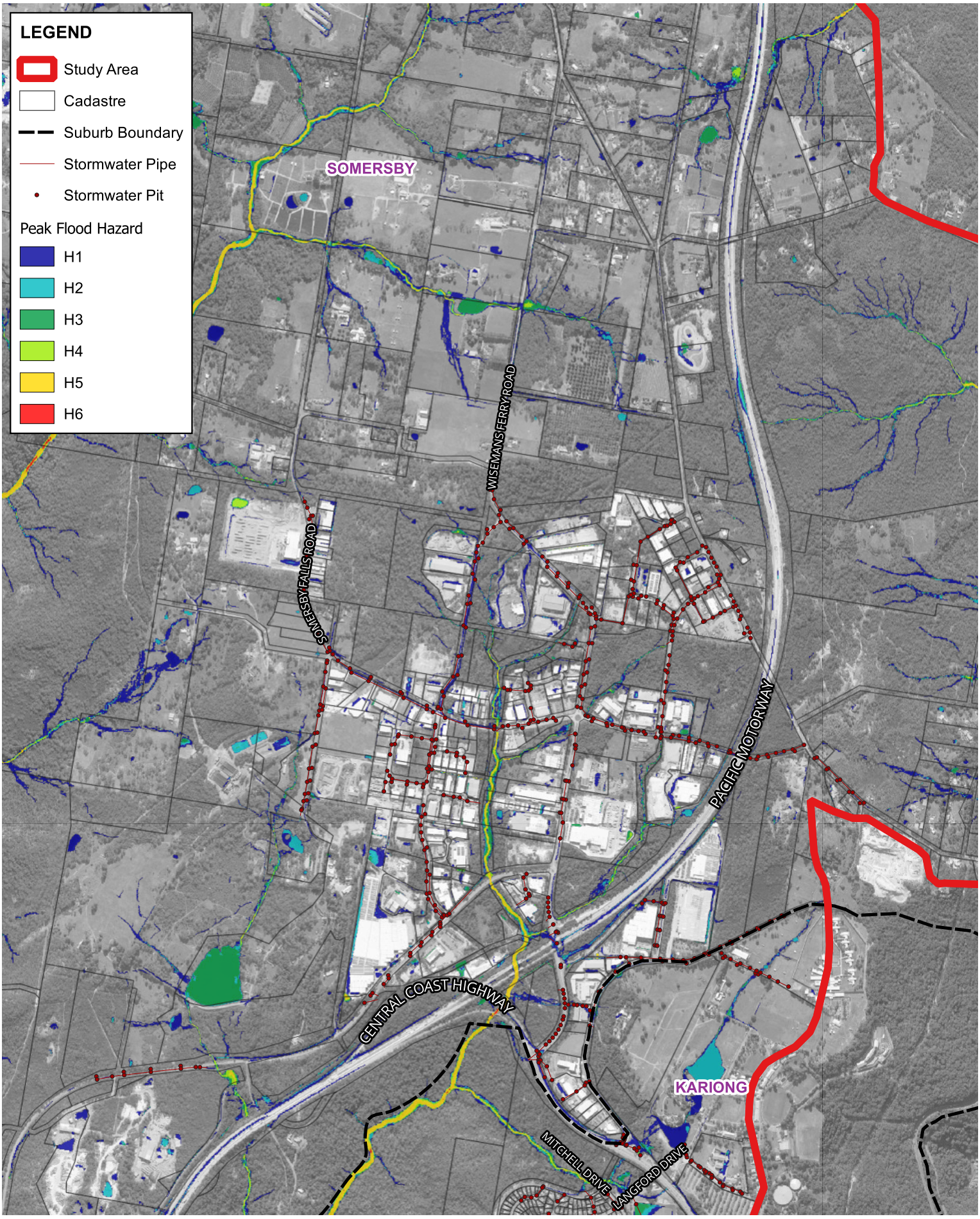
File: \\perfile001\data$\Water_Resources\Projects\SEW353_Kariong_Somersby_Flood_Study\G_GIS\Workspaces\Stage_Final_Draft\MS_Figures.qgz

Scale:

0 0.08 0.16 0.24 0.32 0.4 km

1:10,000

KBR




Title:

# Peak Flood Hazard - Somersby Industrial Area
# 20% AEP Design Event Scenario

Figure: C-74

Rev: 0

Scale at A4 1:20000

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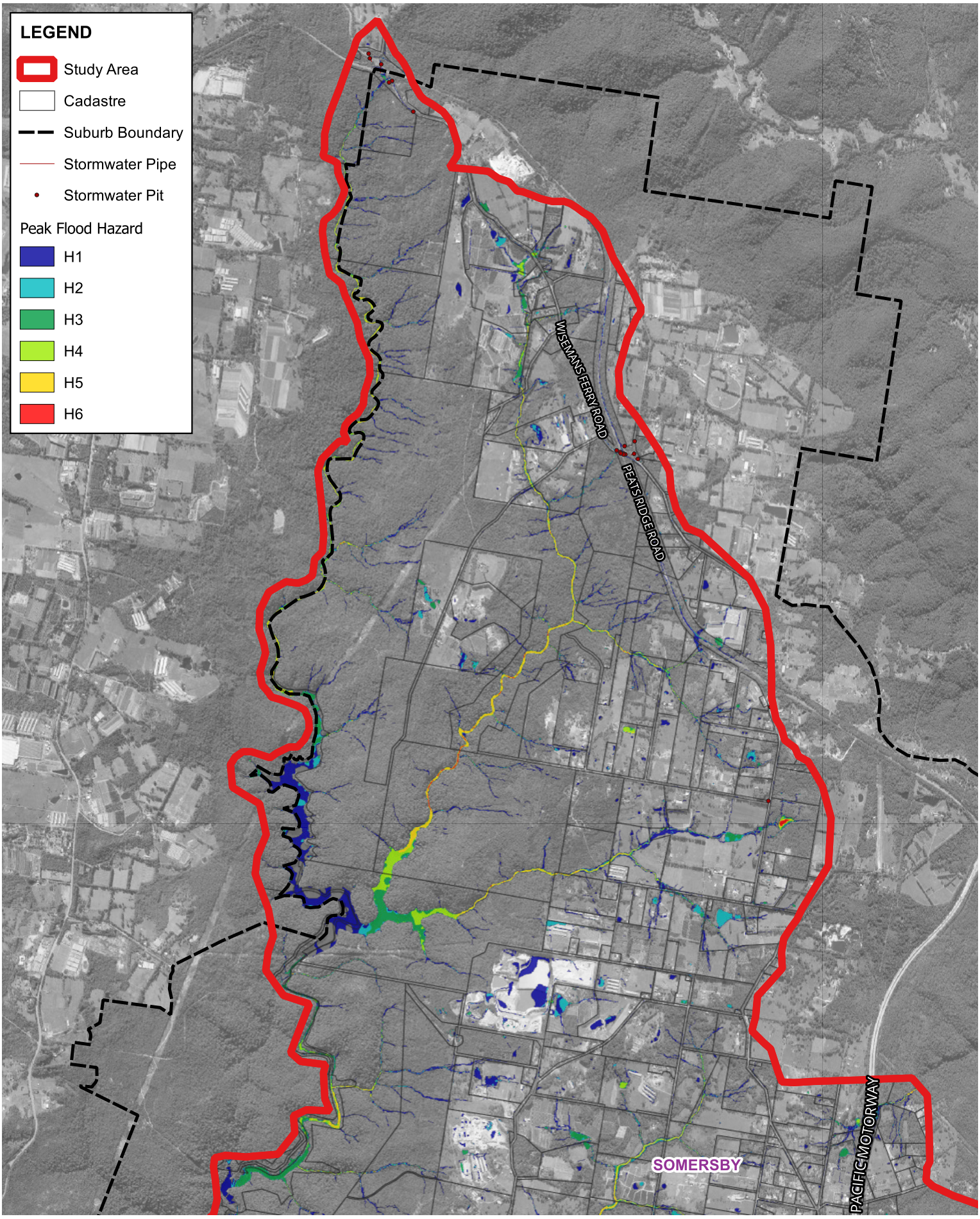
Scale:

0 0.1 0.2 0.3 0.4 0.5 km

1:20,000

KBR




Title:

# Peak Flood Hazard - Northern Catchment
# 20% AEP Design Event Scenario

Figure: C-75

Rev: 0

Scale at A4 1:40000

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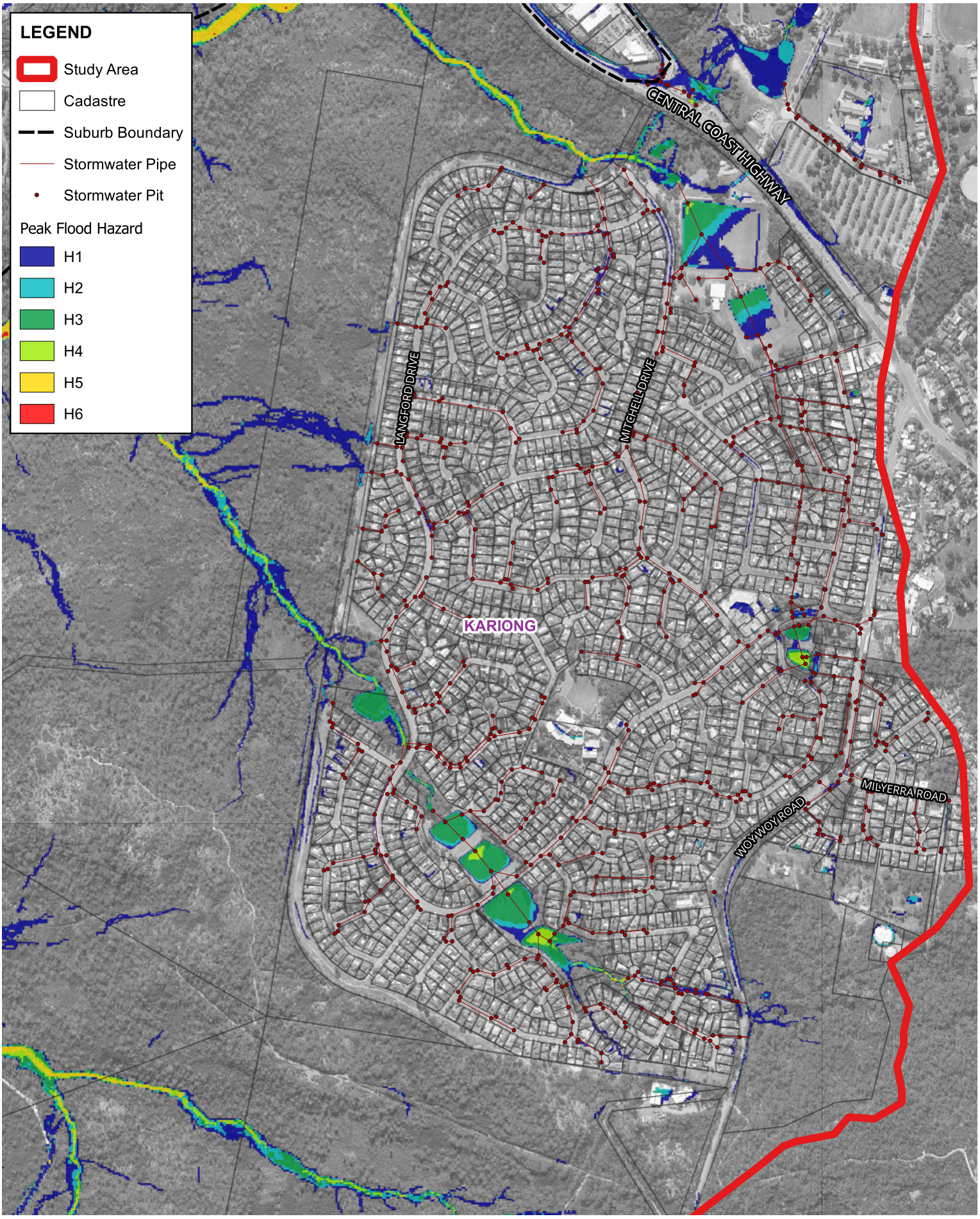
Scale:

0 0.3 0.6 0.9 1.2 1.5 km

1:40,000

KBR




Title:

# Peak Flood Hazard - Kariong Town
# 10% AEP Design Event Scenario

Figure: C-76

Rev: 0

Scale at A4 1:10000

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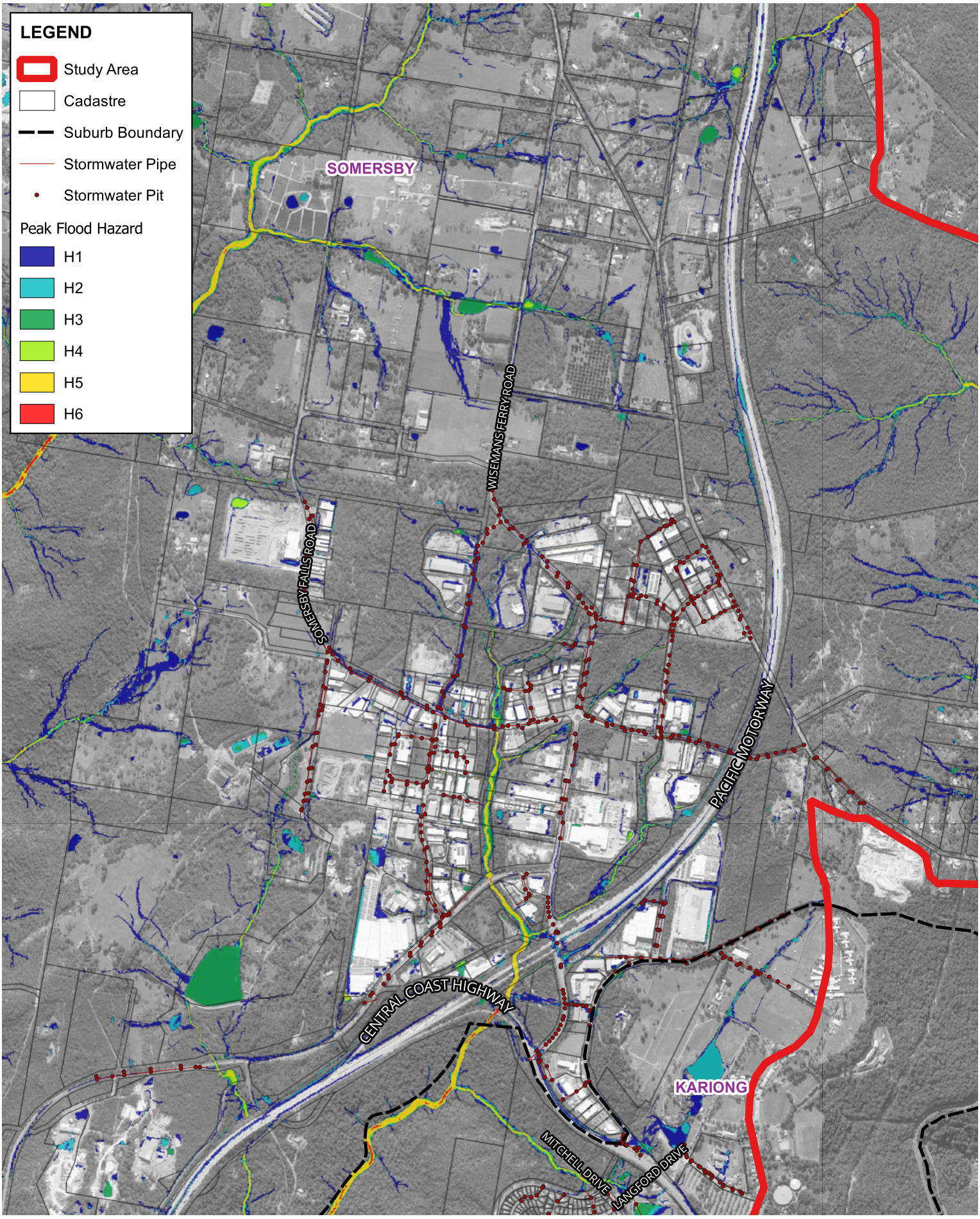
Scale:

0 0.08 0.16 0.24 0.32 0.4 km

1:10,000




Title:

# Peak Flood Hazard - Somersby Industrial Area
# 10% AEP Design Event Scenario

Figure: C-77

Rev: 0

Scale at A4 1:20000
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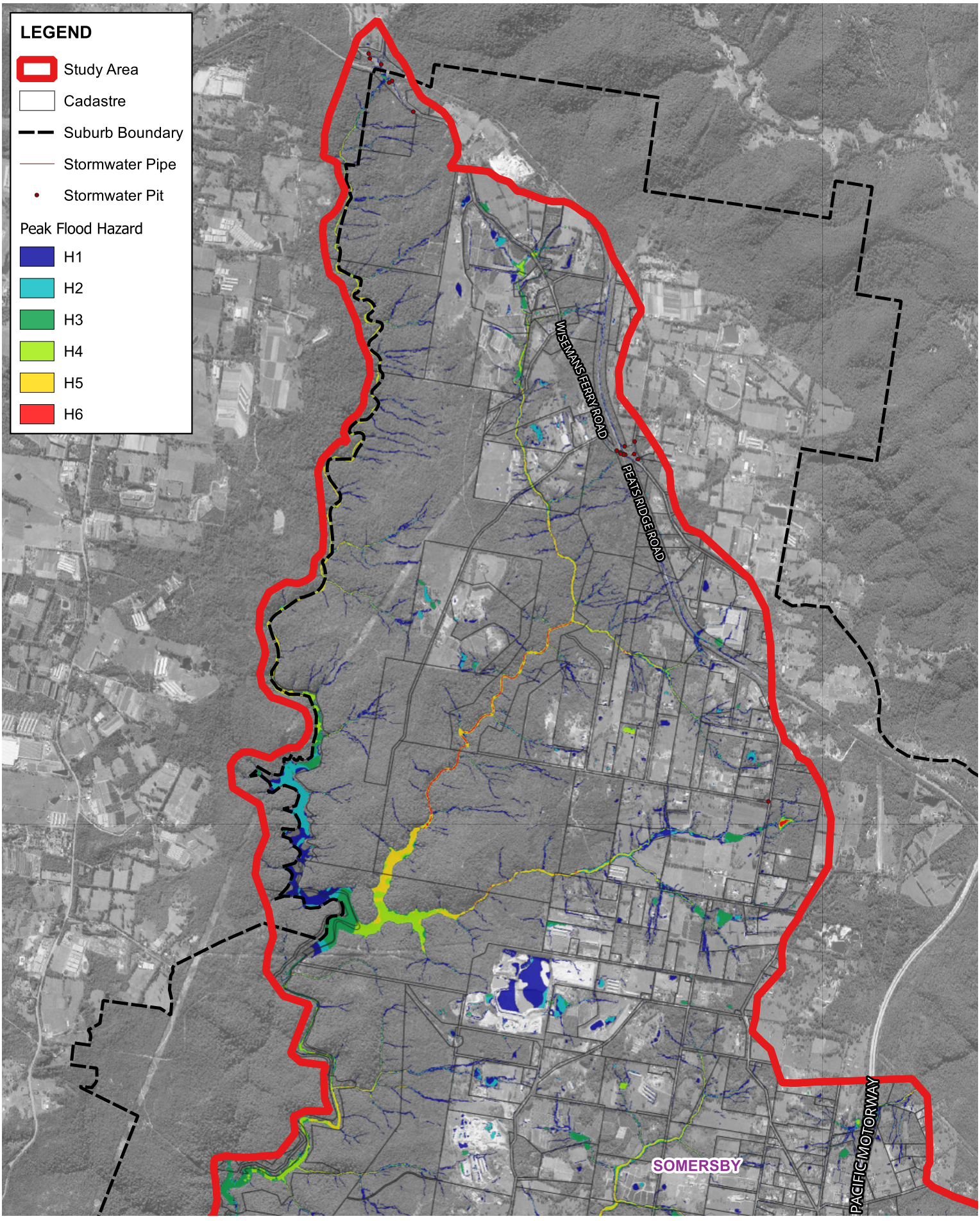
Scale:

0 0.1 0.2 0.3 0.4 0.5 km

1:20,000

KBR




Title:

# Peak Flood Hazard - Northern Catchment
# 10% AEP Design Event Scenario

Figure: C-78

Rev: 0

Scale at A4 1:40000

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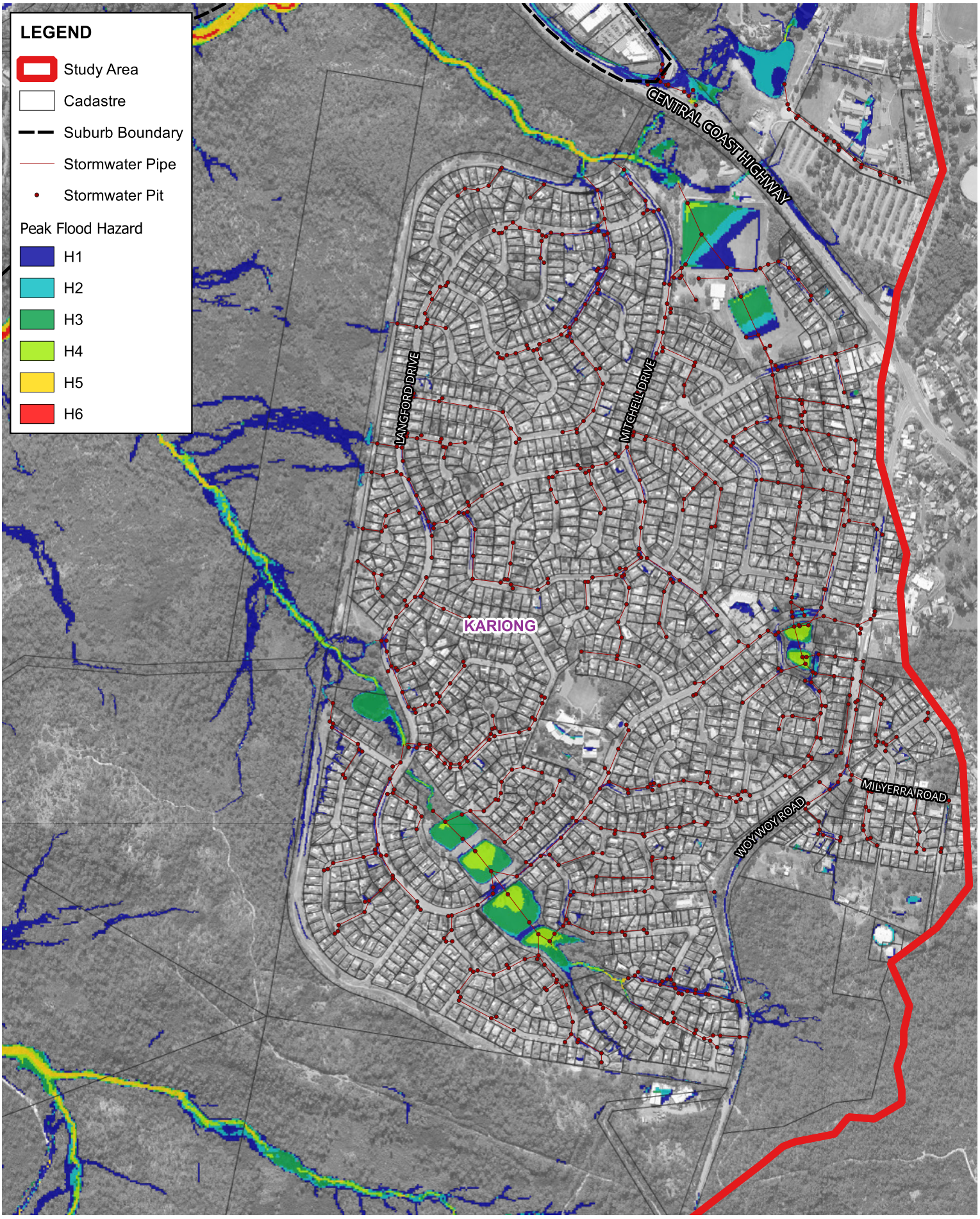
Scale:

0 0.3 0.6 0.9 1.2 1.5 km

1:40,000

KBR




Title:

# Peak Flood Hazard - Kariong Town
# 5% AEP Design Event Scenario

Figure: C-79

Rev: 0

Scale at A4 1:10000

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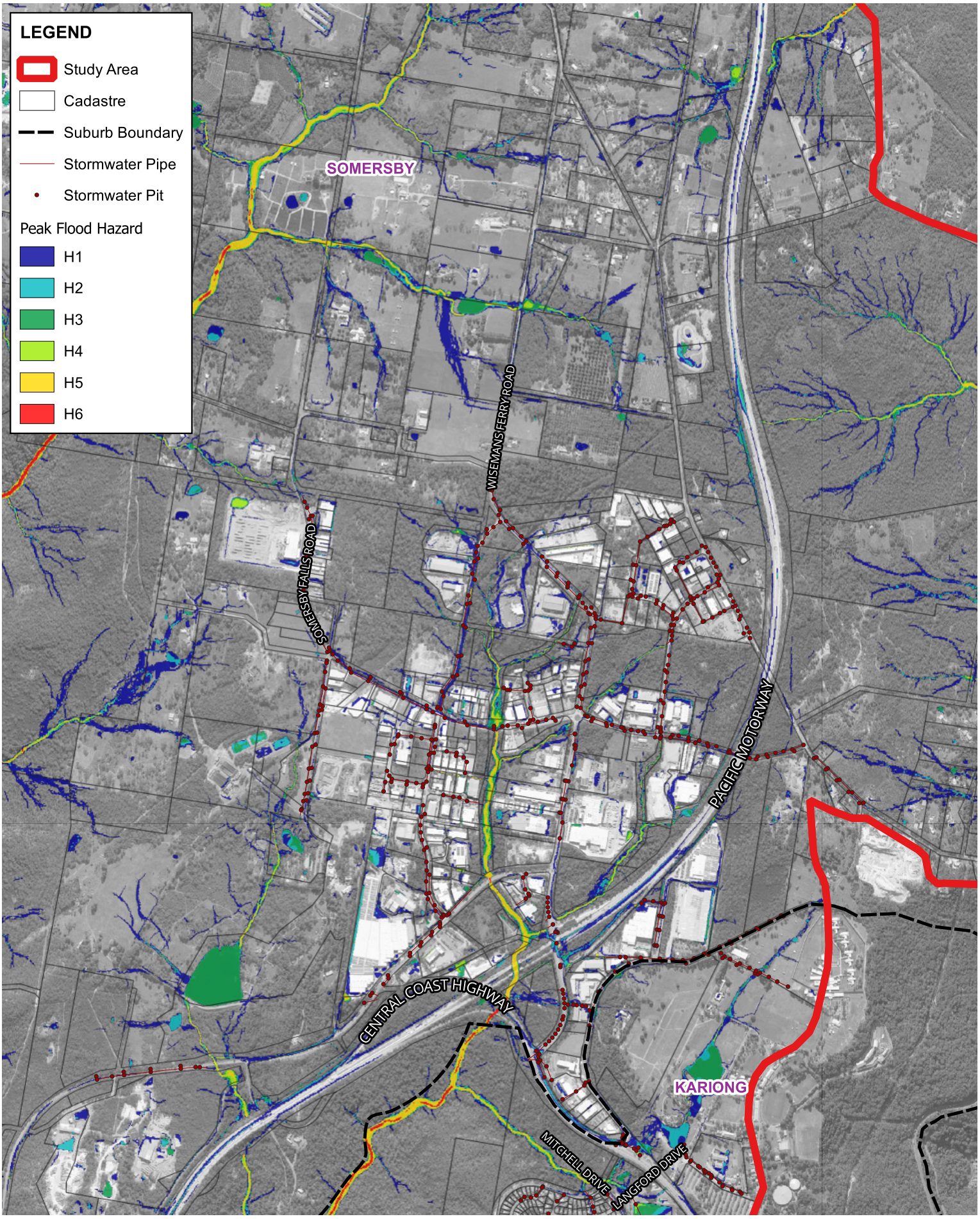
Scale:

0 0.08 0.16 0.24 0.32 0.4 km

1:10,000




Title:

# Peak Flood Hazard - Somersby Industrial Area
# 5% AEP Design Event Scenario

Figure: C-80

Rev: 0

Scale at A4 1:20000

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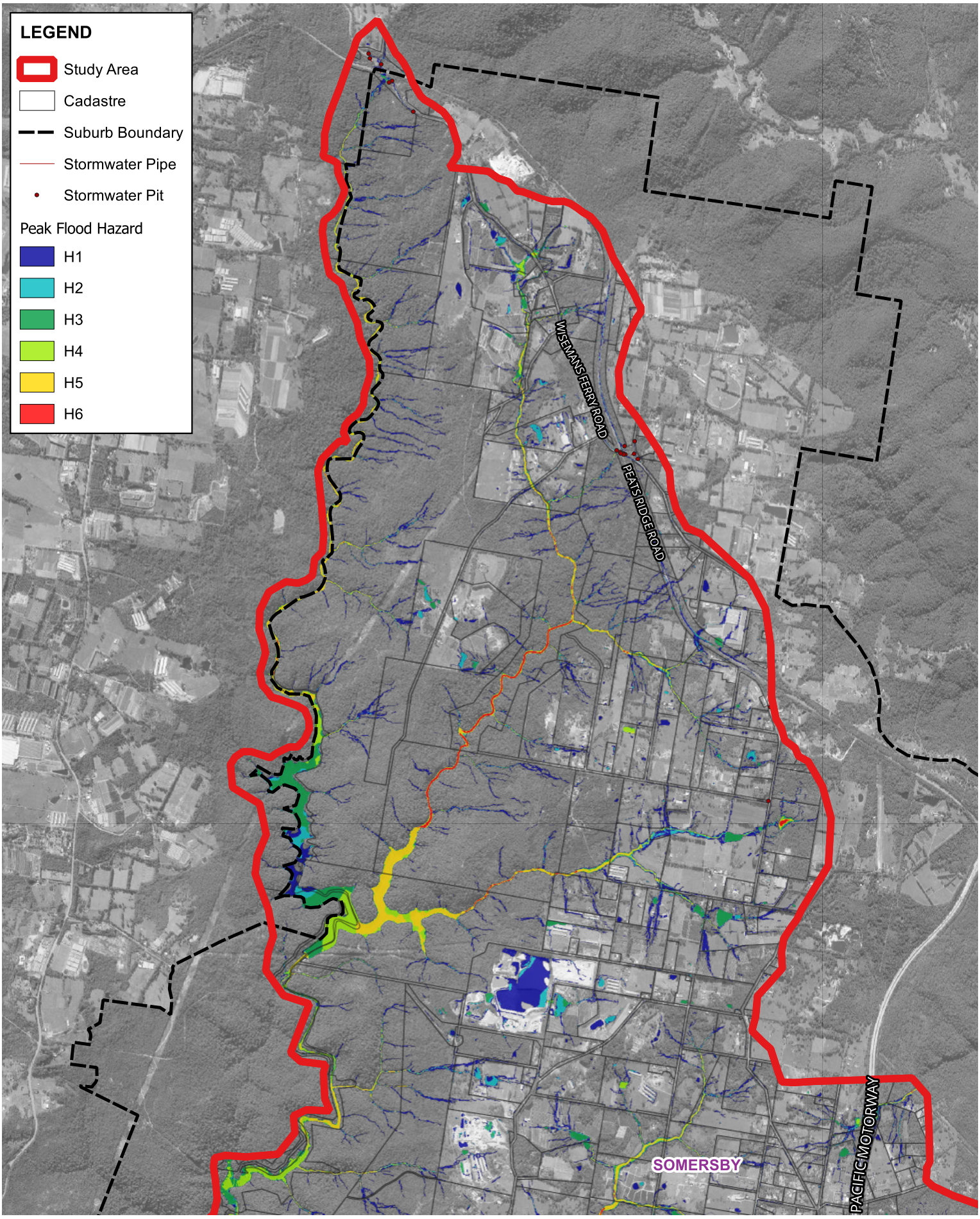
Scale:

0 0.1 0.2 0.3 0.4 0.5 km

1:20,000

KBR




Title:

# Peak Flood Hazard - Northern Catchment
# 5% AEP Design Event Scenario

Figure: C-81

Rev: 0

Scale at A4 1:40000

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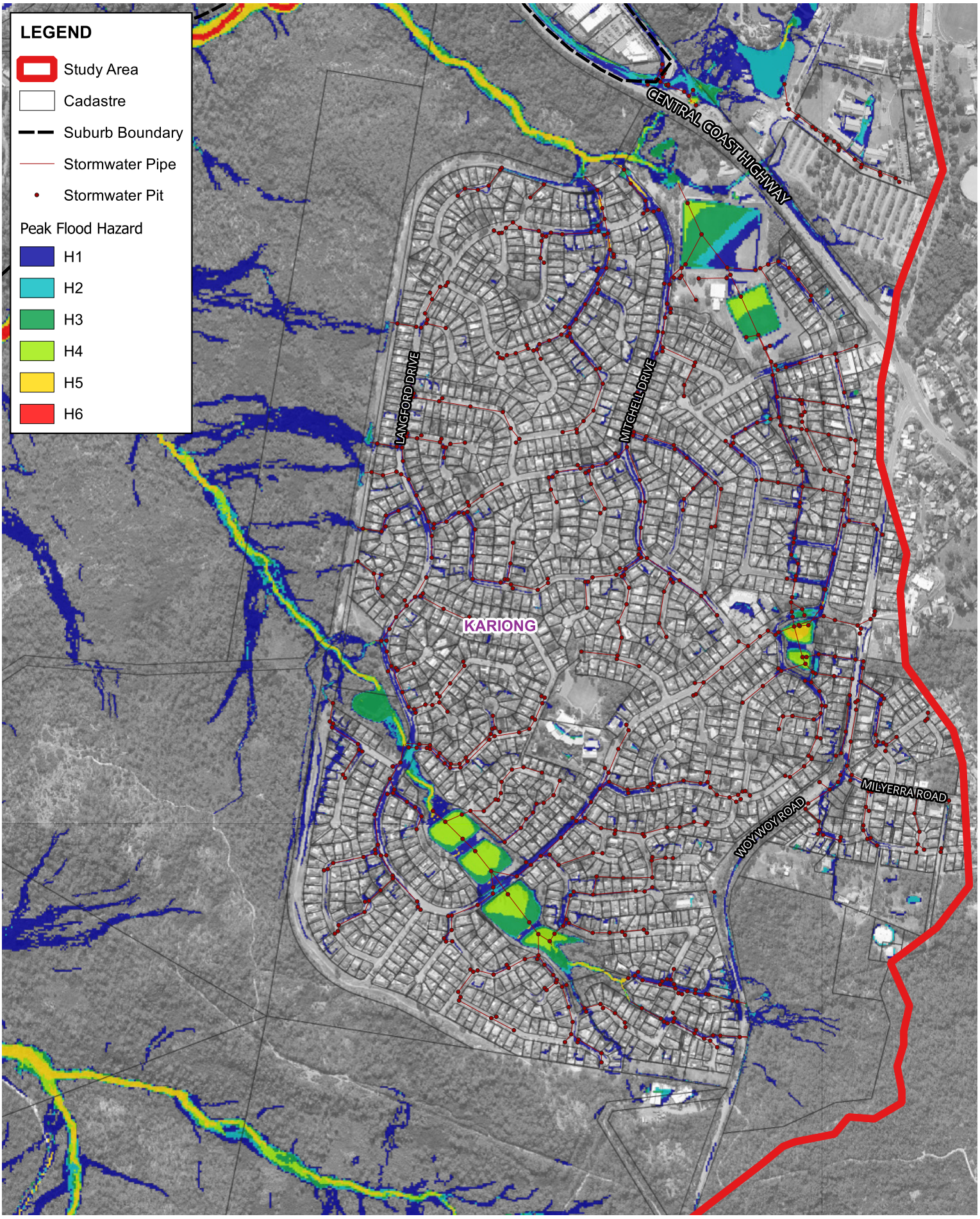
Scale:

0 0.3 0.6 0.9 1.2 1.5 km

1:40,000

KBR




Title:

# Peak Flood Hazard - Kariong Town
# 2% AEP Design Event Scenario

Figure: C-82

Rev: 0

Scale at A4 1:10000

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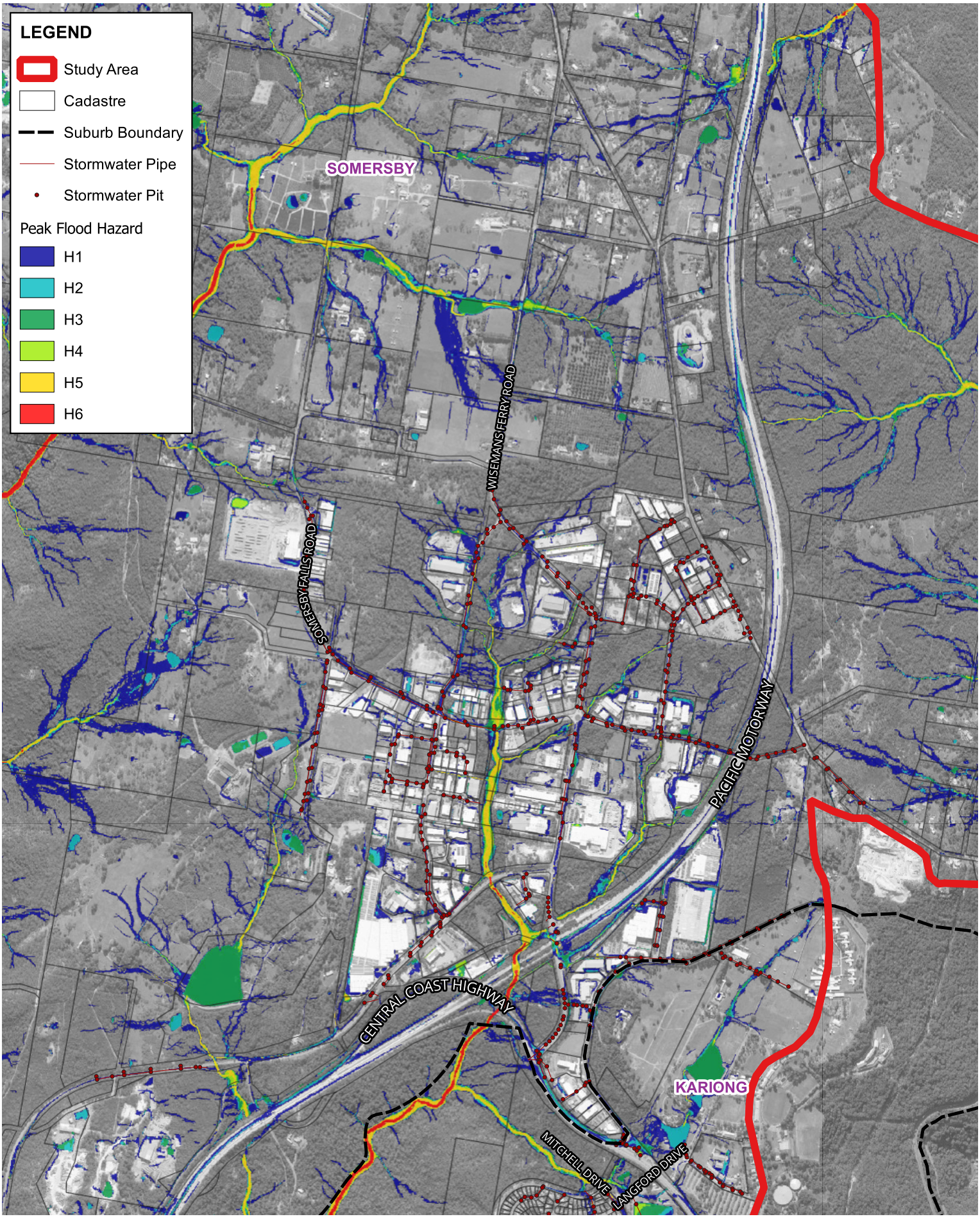
Scale:

0 0.08 0.16 0.24 0.32 0.4 km

1:10,000




Title:

# Peak Flood Hazard - Somersby Industrial Area
# 2% AEP Design Event Scenario

Figure: C-83

Rev: 0

Scale at A4 1:20000

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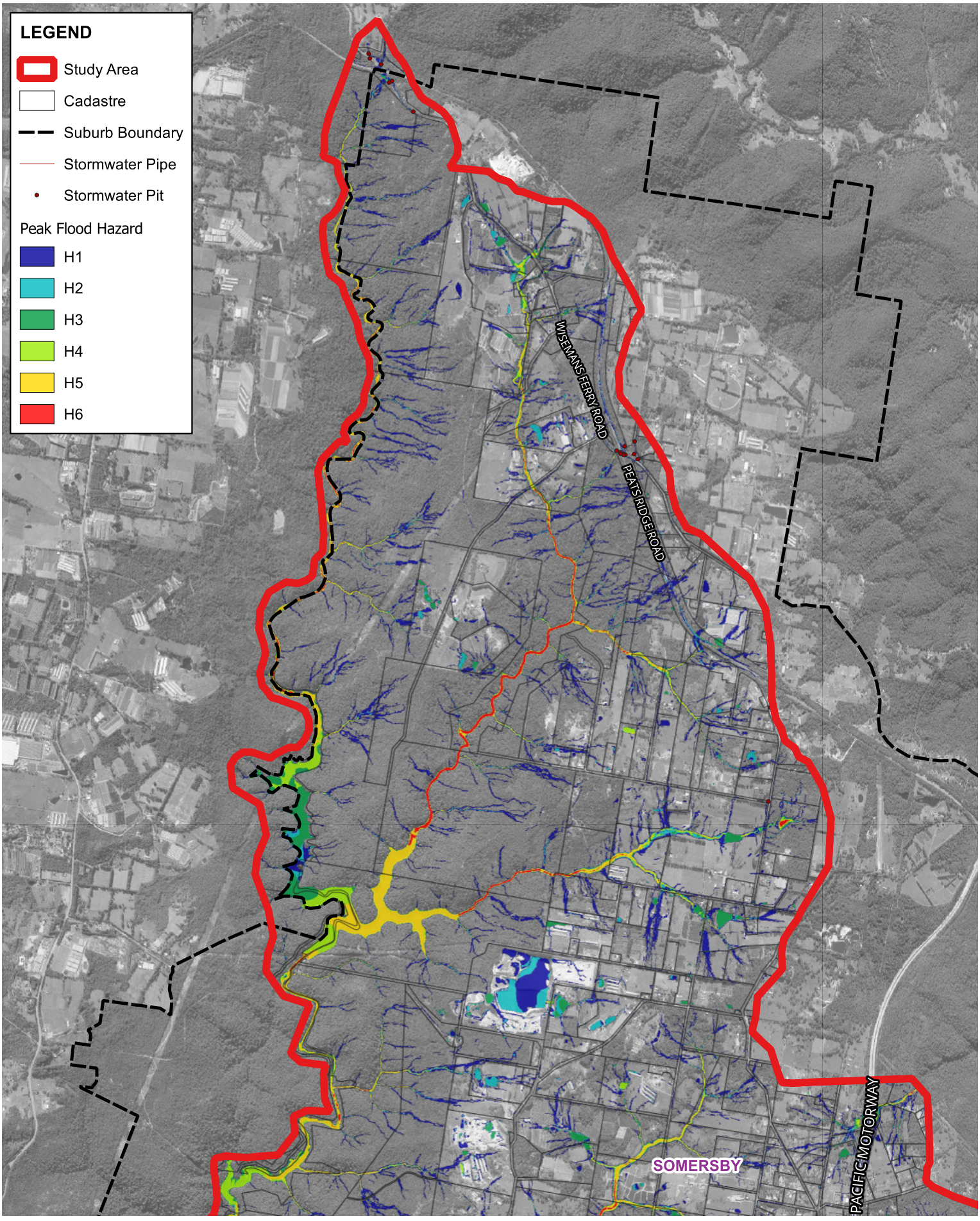
Scale:

0 0.1 0.2 0.3 0.4 0.5 km

1:20,000

KBR




Title:

# Peak Flood Hazard - Northern Catchment
# 2% AEP Design Event Scenario

Figure: C-84

Rev: 0

Scale at A4 1:40000

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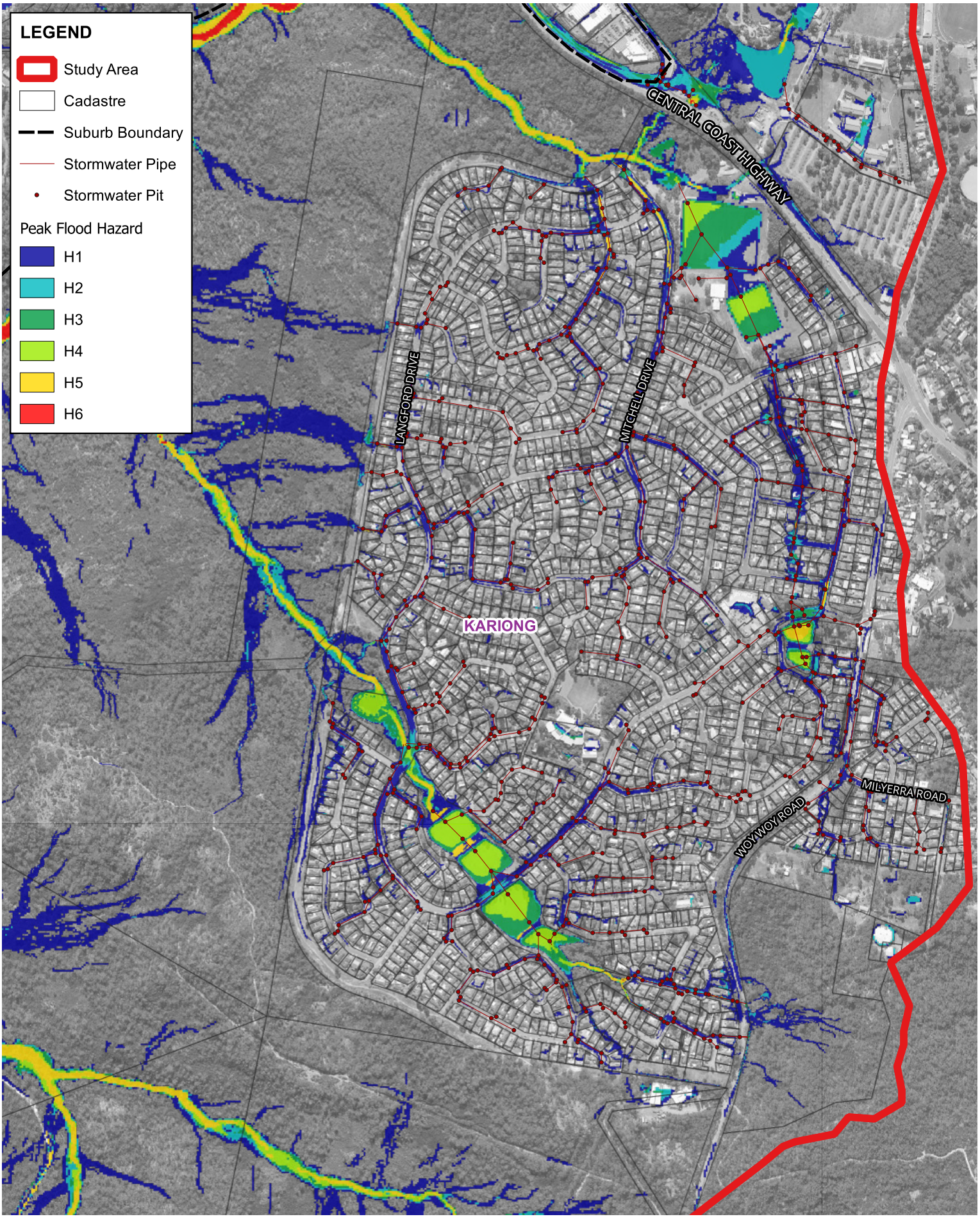
Scale:

0 0.3 0.6 0.9 1.2 1.5 km

1:40,000




Title:

# Peak Flood Hazard - Kariong Town
# 1 in 100 AEP Design Event Scenario

Figure: C-85

Rev: 0

Scale at A4 1:10000

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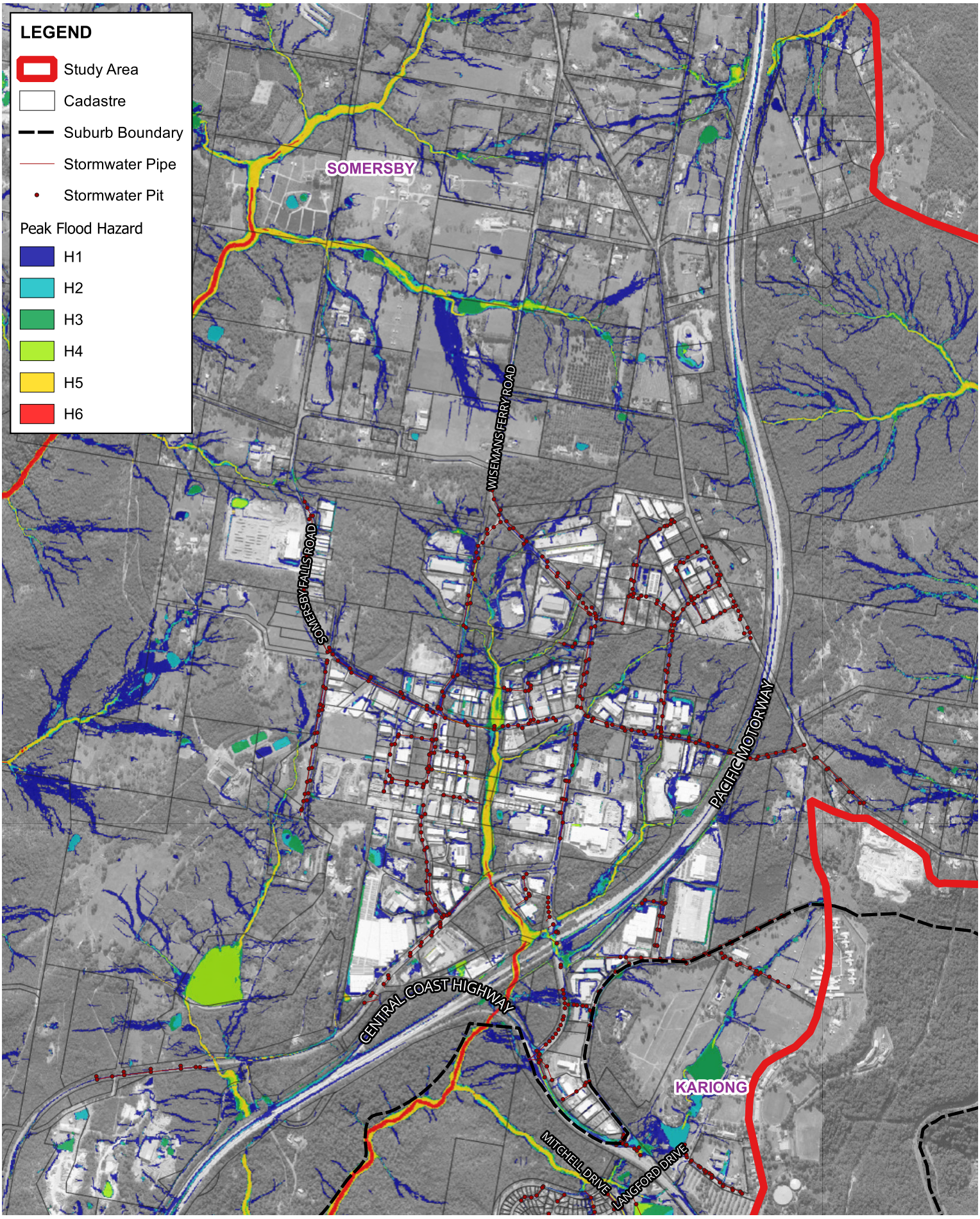
Scale:

0 0.08 0.16 0.24 0.32 0.4 km

1:10,000

KBR




Title:

# Peak Flood Hazard - Somersby Industrial Area
# 1 in 100 AEP Design Event Scenario

Figure: C-86

Rev: 0

Scale at A4 1:20000

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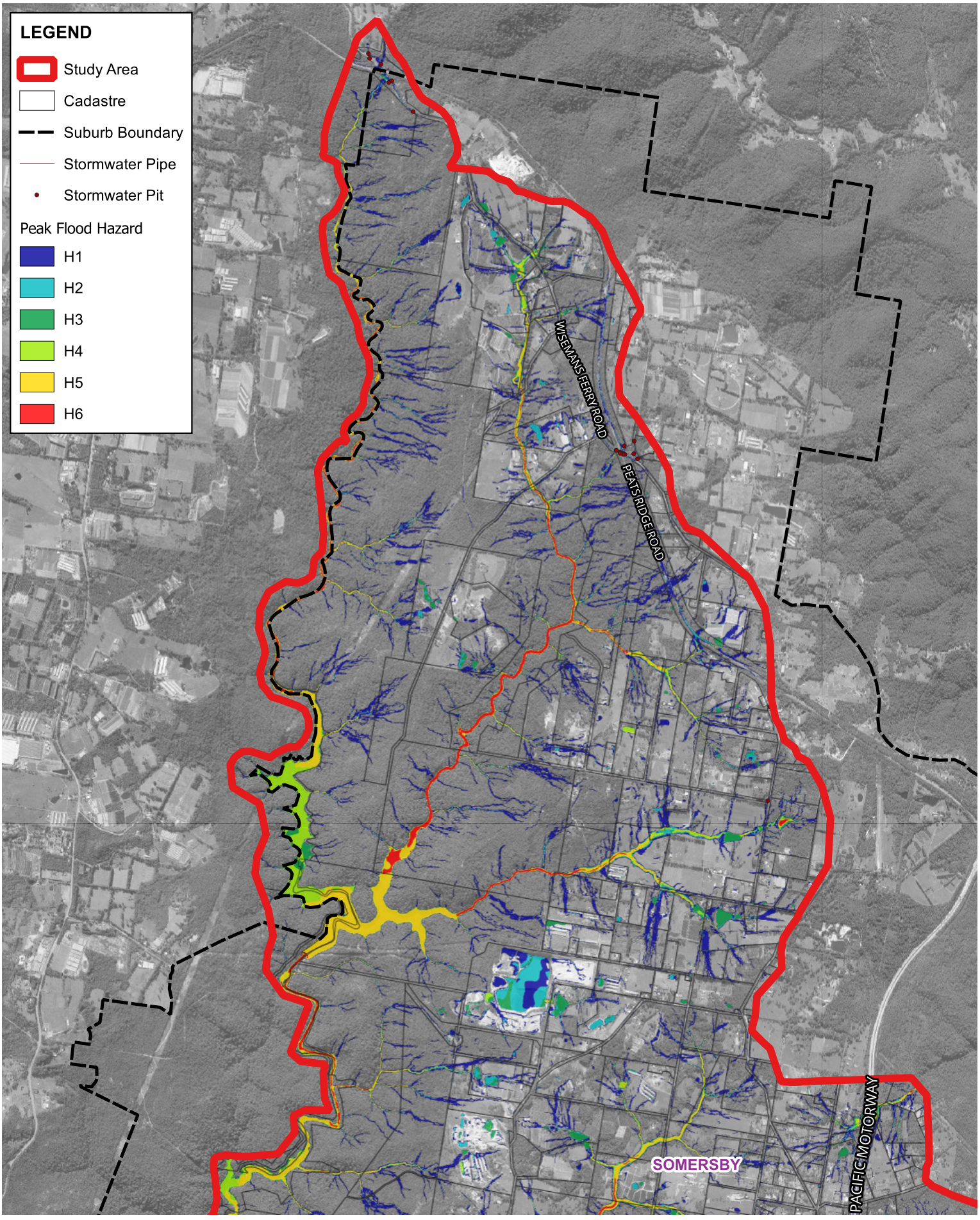
File: \\perfile001\data$\Water_Resources\Projects\SEW353_Kariong_Somersby_Flood_Study\G_GIS\Workspaces\Stage_Final_Draft\MS_Figures.qgz

Scale:

0 0.1 0.2 0.3 0.4 0.5 km

1:20,000

KBR




Title:

# Peak Flood Hazard - Northern Catchment
# 1 in 100 AEP Design Event Scenario

Figure: C-87

Rev: 0

Scale at A4 1:40000

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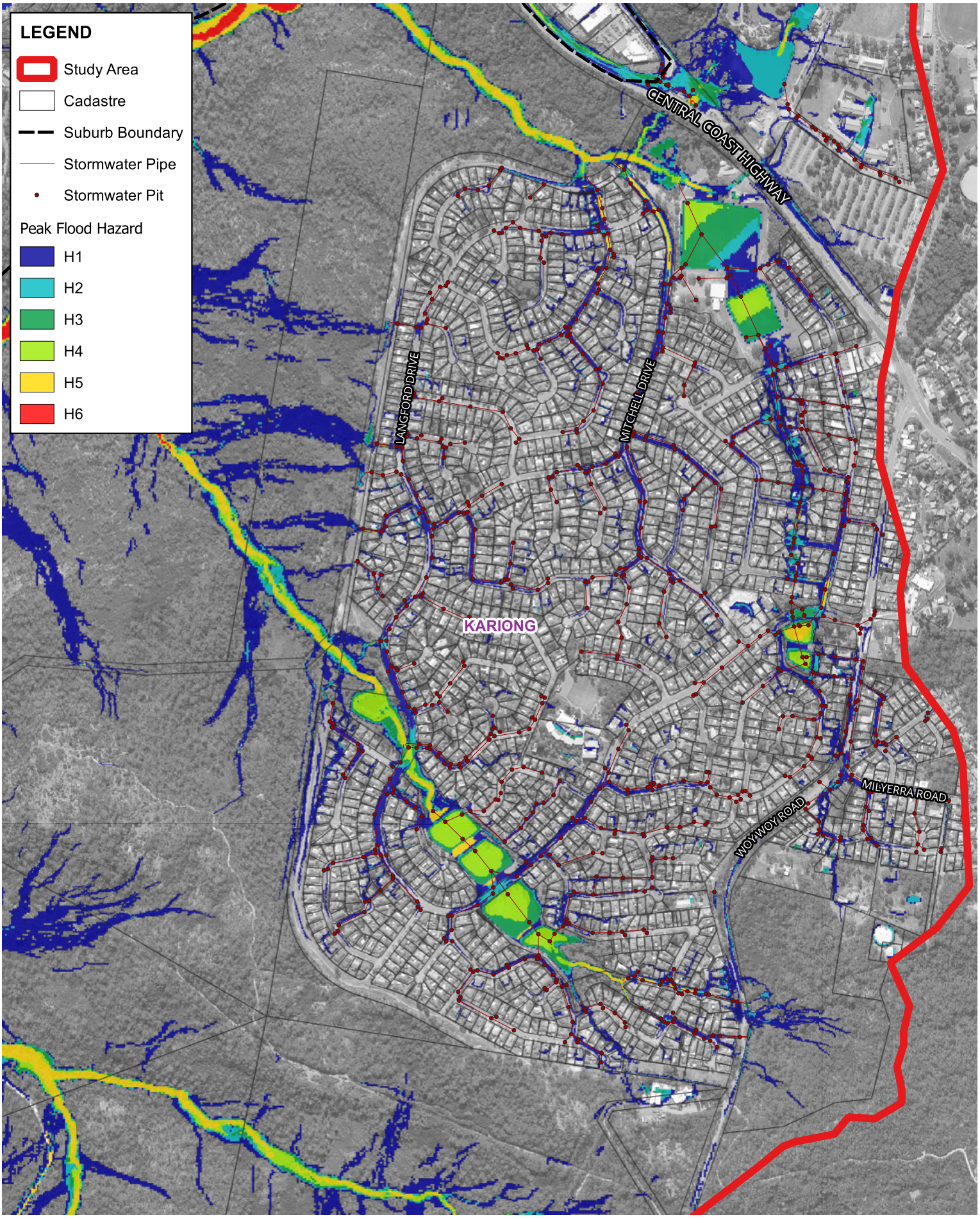
Scale:

0 0.3 0.6 0.9 1.2 1.5 km

1:40,000

KBR




Title:

# Peak Flood Hazard - Kariong Town
# 1 in 200 AEP Design Event Scenario

Figure: C-88

Rev: 0

Scale at A4 1:10000

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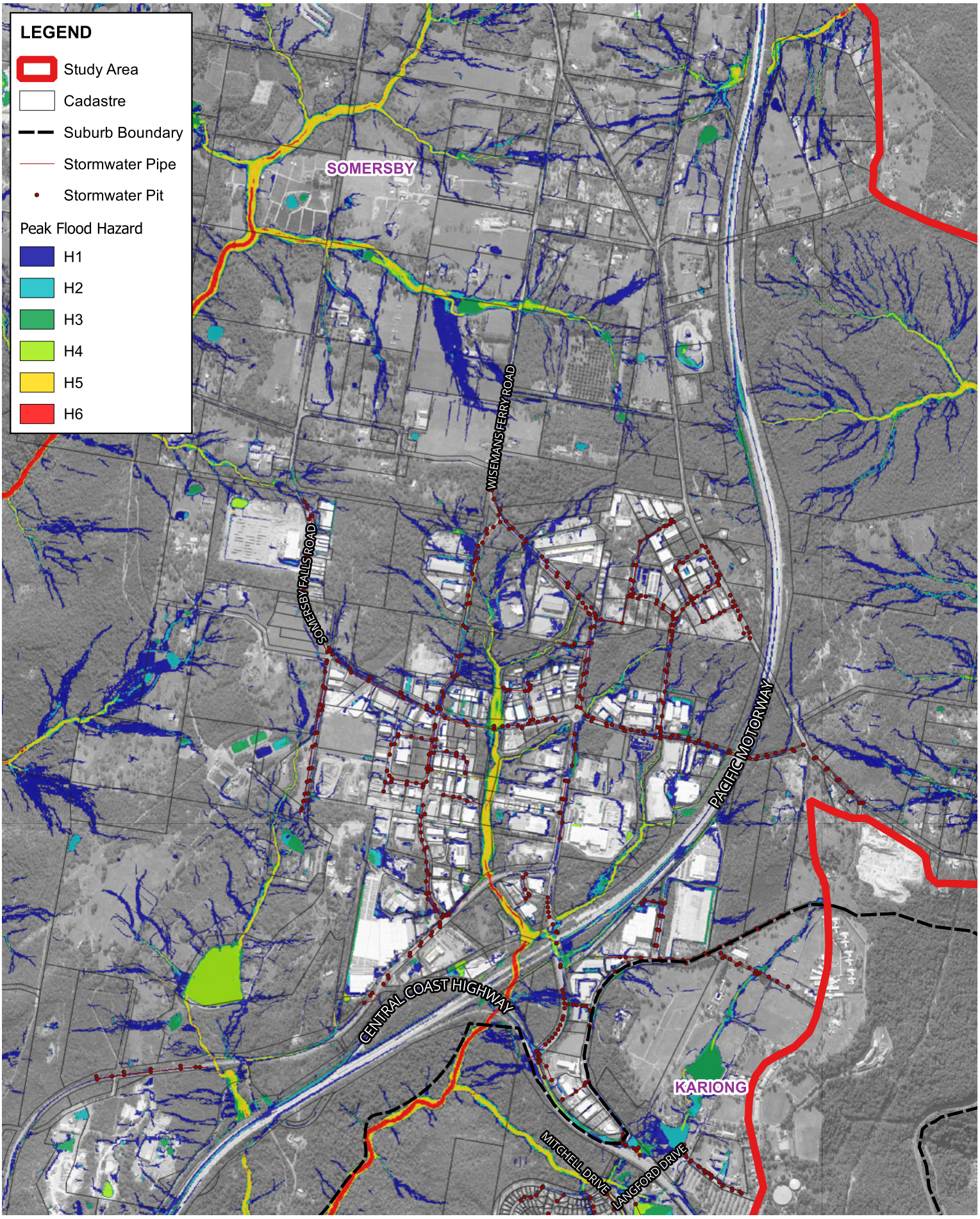
File: \\perfile001\data$\Water_Resources\Projects\SEW353_Kariong_Somersby_Flood_Study\G_GIS\Workspaces\Stage_Final_Draft\MS_Figures.qgz

Scale:

0 0.08 0.16 0.24 0.32 0.4 km

1:10,000




Title:

# Peak Flood Hazard - Somersby Industrial Area
# 1 in 200 AEP Design Event Scenario

Figure: C-89

Rev: 0

Scale at A4 1:20000

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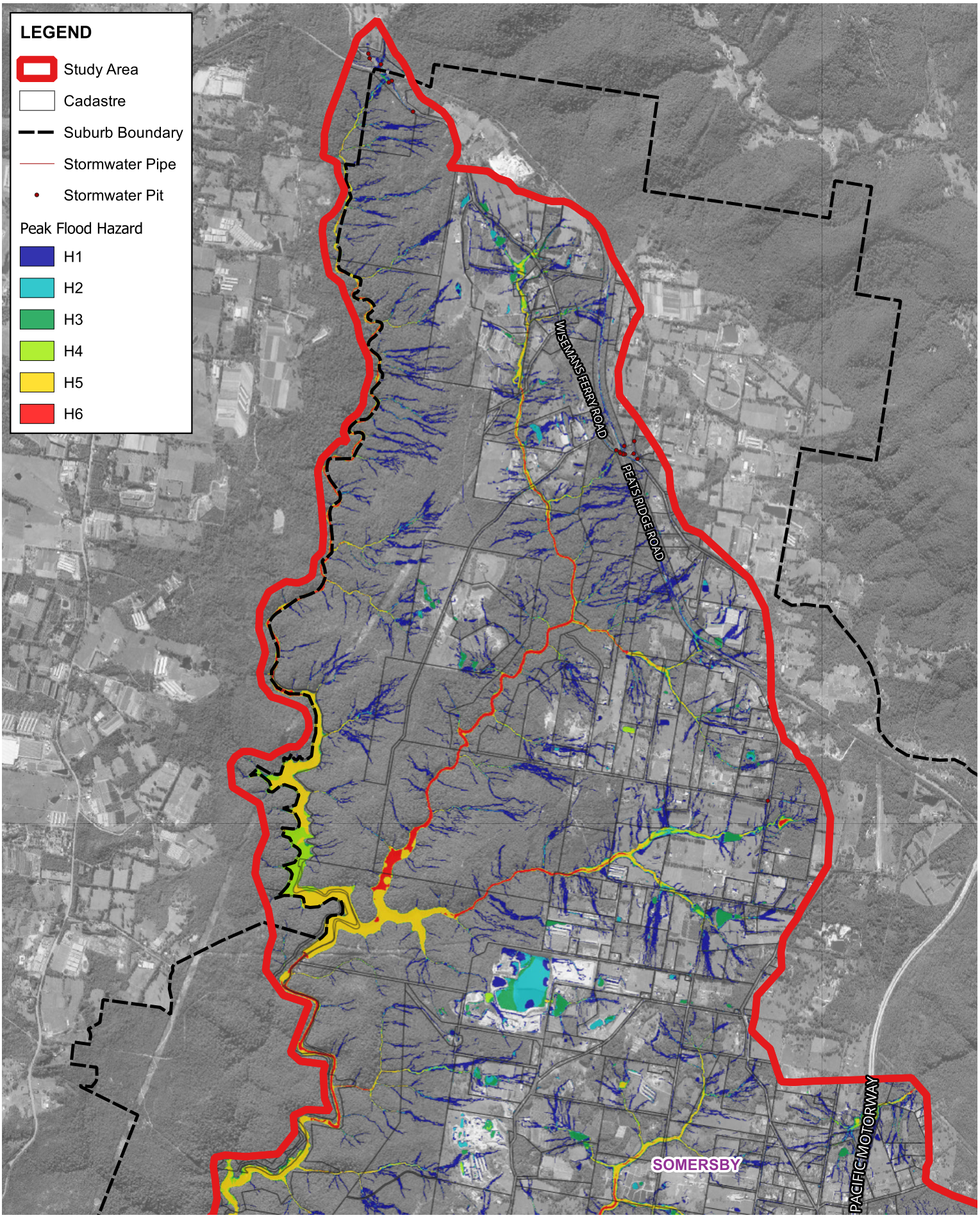
File: \\perfile001\data$\Water_Resources\Projects\SEW353_Kariong_Somersby_Flood_Study\G_GIS\Workspaces\Stage_Final_Draft\MS_Figures.qgz

Scale:

0 0.1 0.2 0.3 0.4 0.5 km

1:20,000

KBR




Title:

# Peak Flood Hazard - Northern Catchment
# 1 in 200 AEP Design Event Scenario

Figure: C-90

Rev: 0

Scale at A4 1:40000

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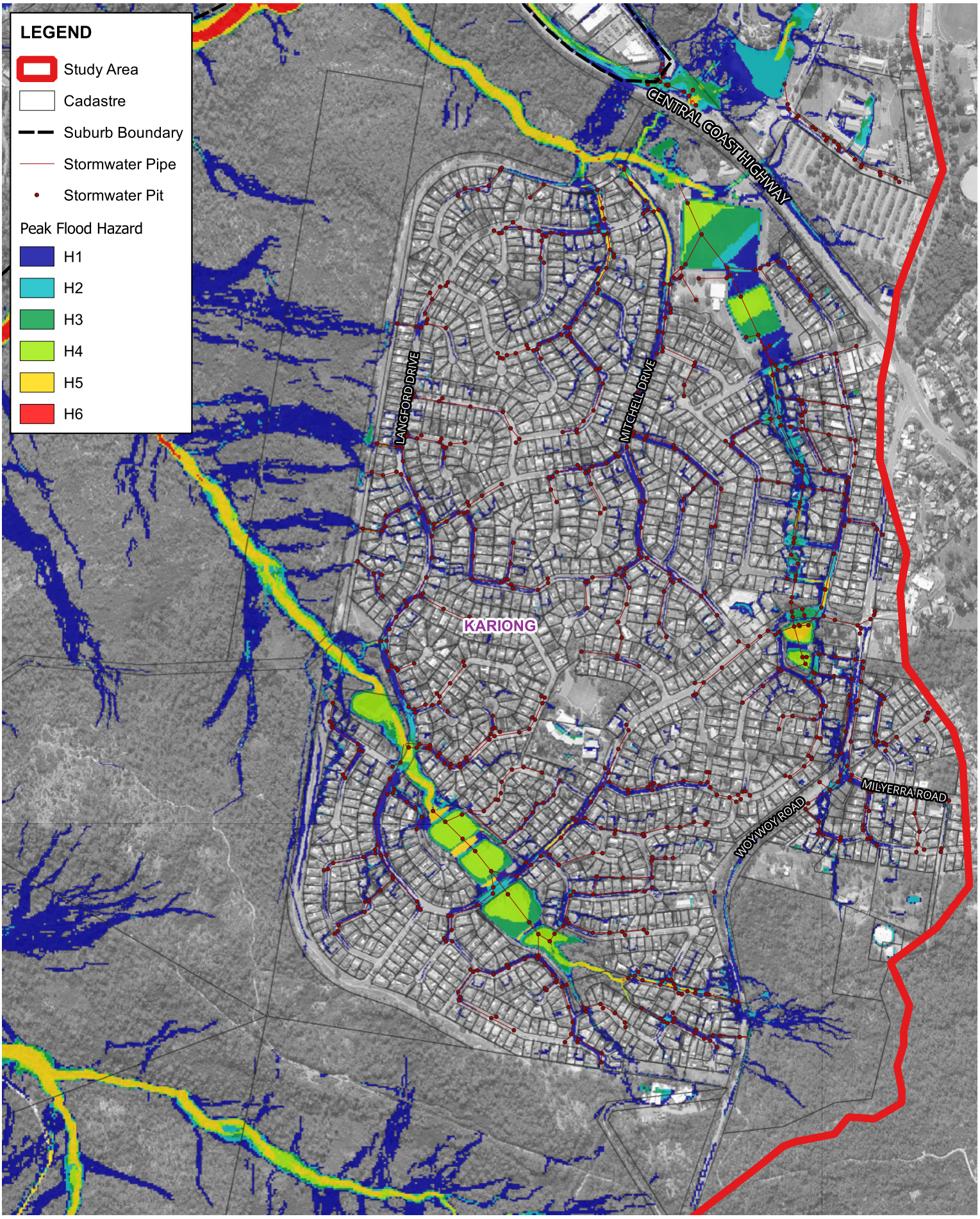
File: \\perfile001\data$\Water_Resources\Projects\SEW353_Kariong_Somersby_Flood_Study\G_GIS\Workspaces\Stage_Final_Draft\MS_Figures.qgz

Scale:

0 0.3 0.6 0.9 1.2 1.5 km

1:40,000




Title:

# Peak Flood Hazard - Kariong Town
# 1 in 500 AEP Design Event Scenario

Figure: C-91

Rev: 0

Scale at A4 1:10000
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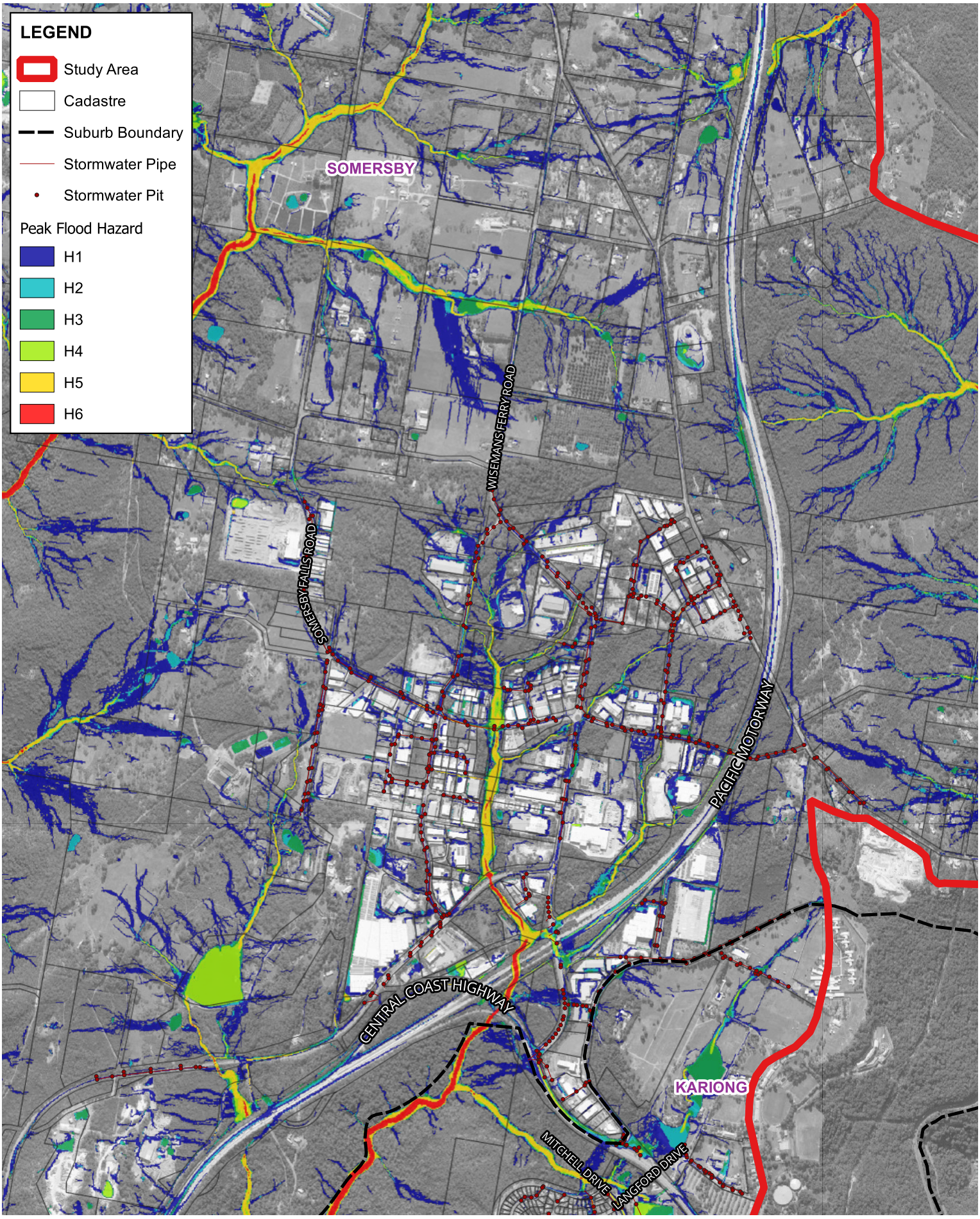
File: \\perfile001\data$\Water_Resources\Projects\SEW353_Kariong_Somersby_Flood_Study\G_GIS\Workspaces\Stage_Final_Draft\MS_Figures.qgz

Scale:

0 0.08 0.16 0.24 0.32 0.4 km

1:10,000




Title:

# Peak Flood Hazard - Somersby Industrial Area
# 1 in 500 AEP Design Event Scenario

Figure: C-92

Rev: 0

Scale at A4 1:20000

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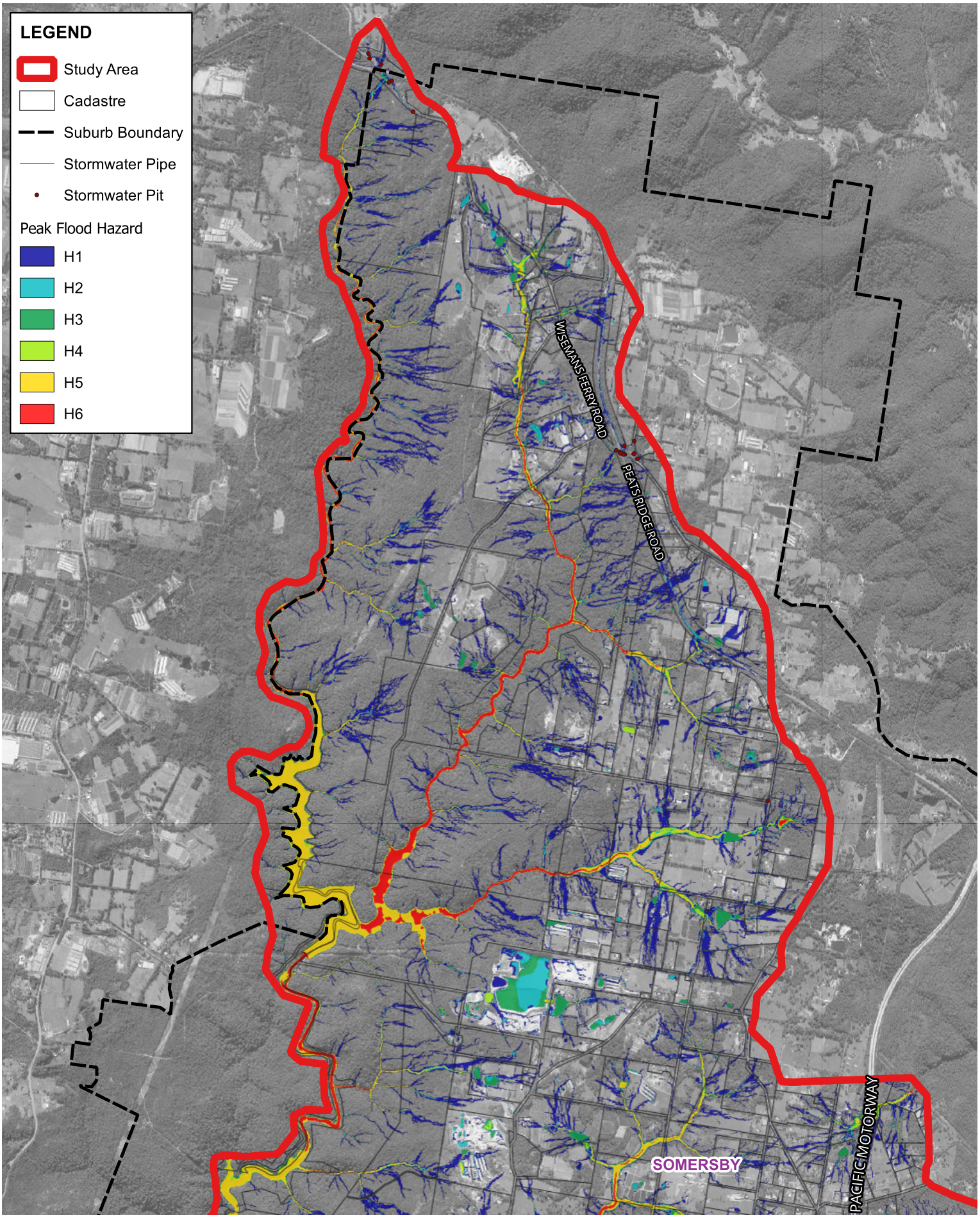
File: \\perfile001\data$\Water_Resources\Projects\SEW353_Kariong_Somersby_Flood_Study\G_GIS\Workspaces\Stage_Final_Draft\MS_Figures.qgz

Scale:

0 0.1 0.2 0.3 0.4 0.5 km

1:20,000

KBR




Title:

# Peak Flood Hazard - Northern Catchment
# 1 in 500 AEP Design Event Scenario

Figure: C-93

Rev: 0

Scale at A4 1:40000

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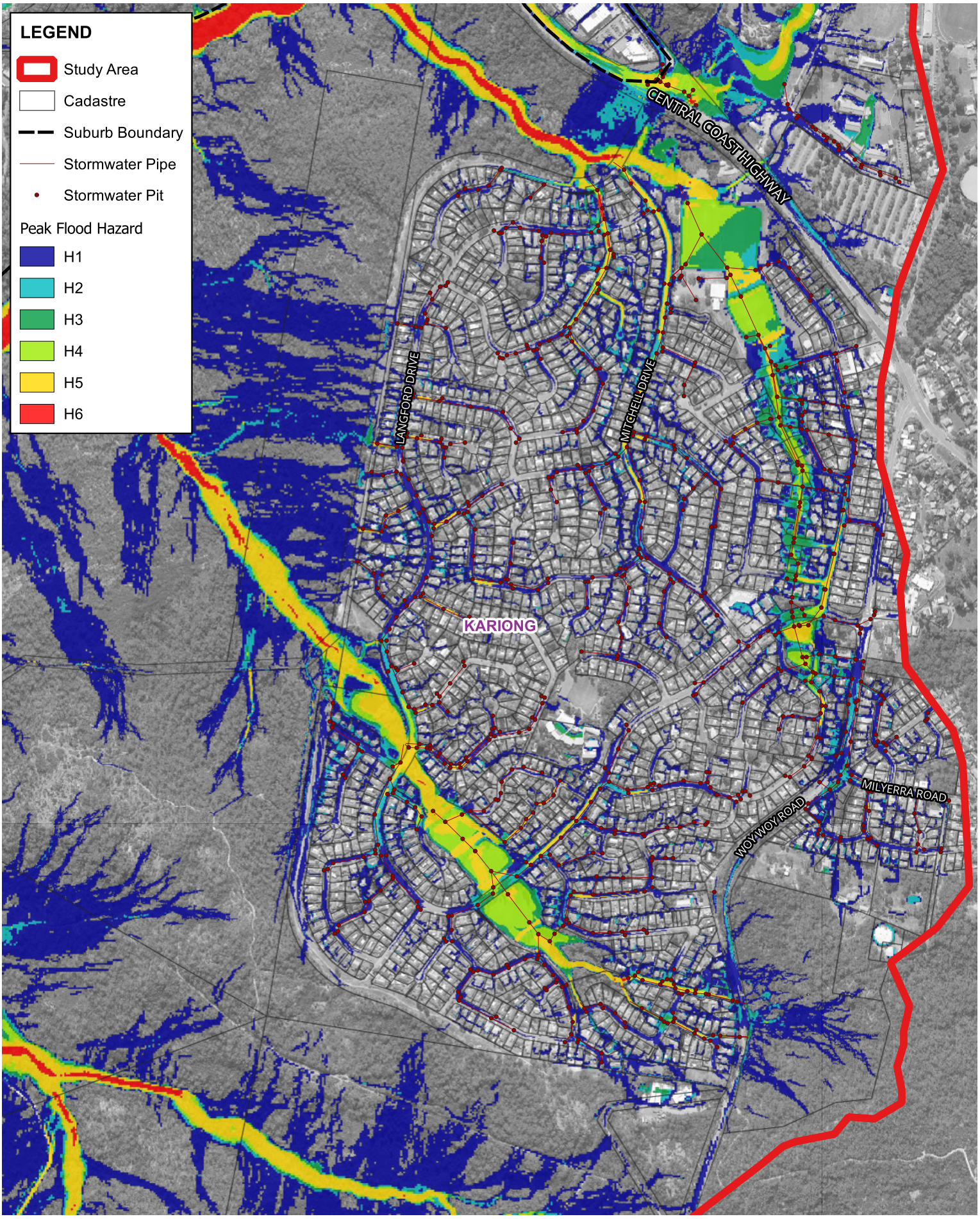
File: \\perfile001\data$\Water_Resources\Projects\SEW353_Kariong_Somersby_Flood_Study\G_GIS\Workspaces\Stage_Final_Draft\MS_Figures.qgz

Scale:

0 0.3 0.6 0.9 1.2 1.5 km

1:40,000




Title:

# Peak Flood Hazard - Kariong Town
# PMF Design Event Scenario

Figure: C-94

Rev: 0

Scale at A4 1:10000

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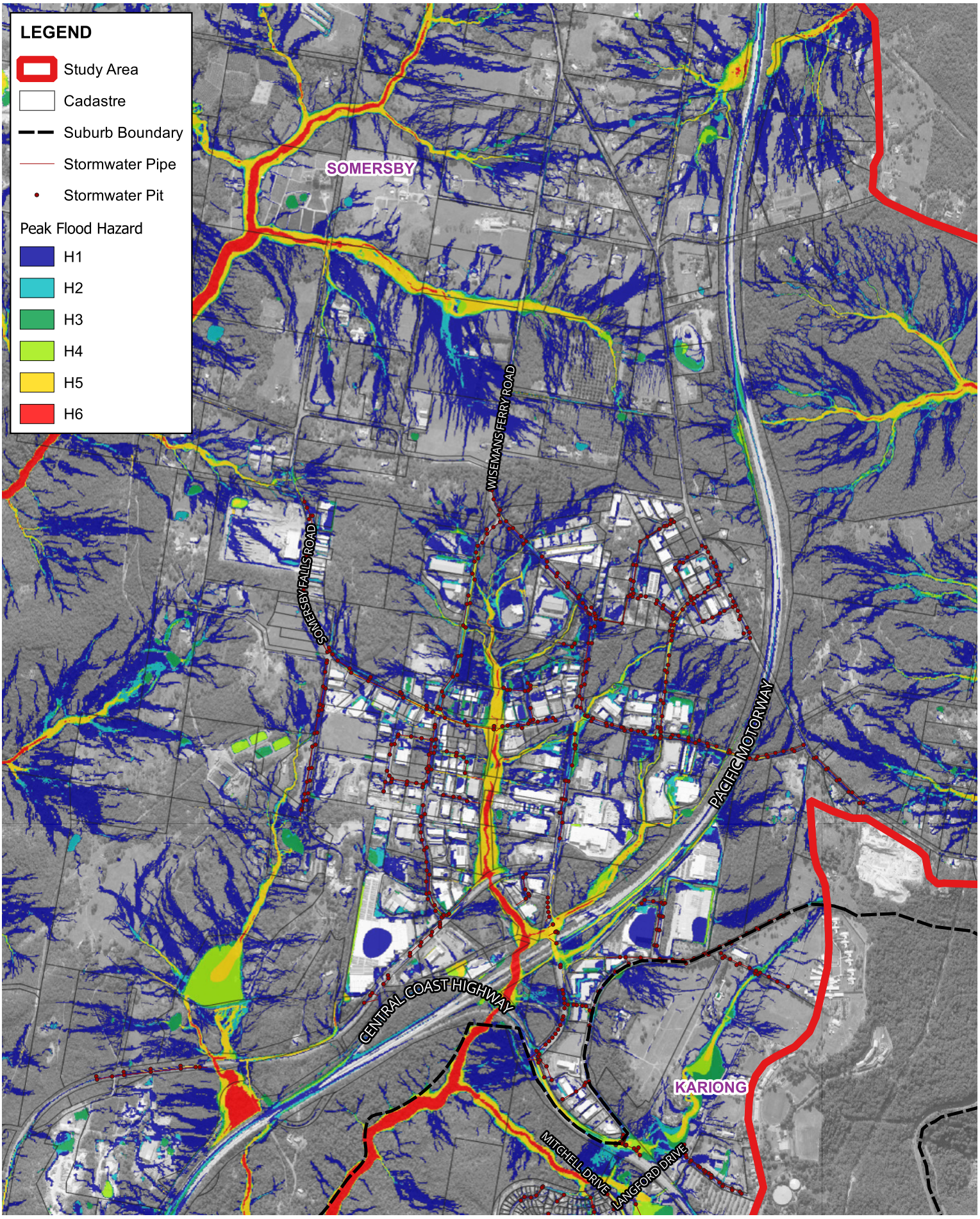
File: \\perfile001\data$\Water_Resources\Projects\SEW353_Kariong_Somersby_Flood_Study\G_GIS\Workspaces\Stage_Final_Draft\MS_Figures.qgz

Scale:

0 0.08 0.16 0.24 0.32 0.4 km

1:10,000

KBR




Title:

# Peak Flood Hazard - Somersby Industrial Area
# PMF Design Event Scenario

Figure: C-95

Rev: 0

Scale at A4 1:20000

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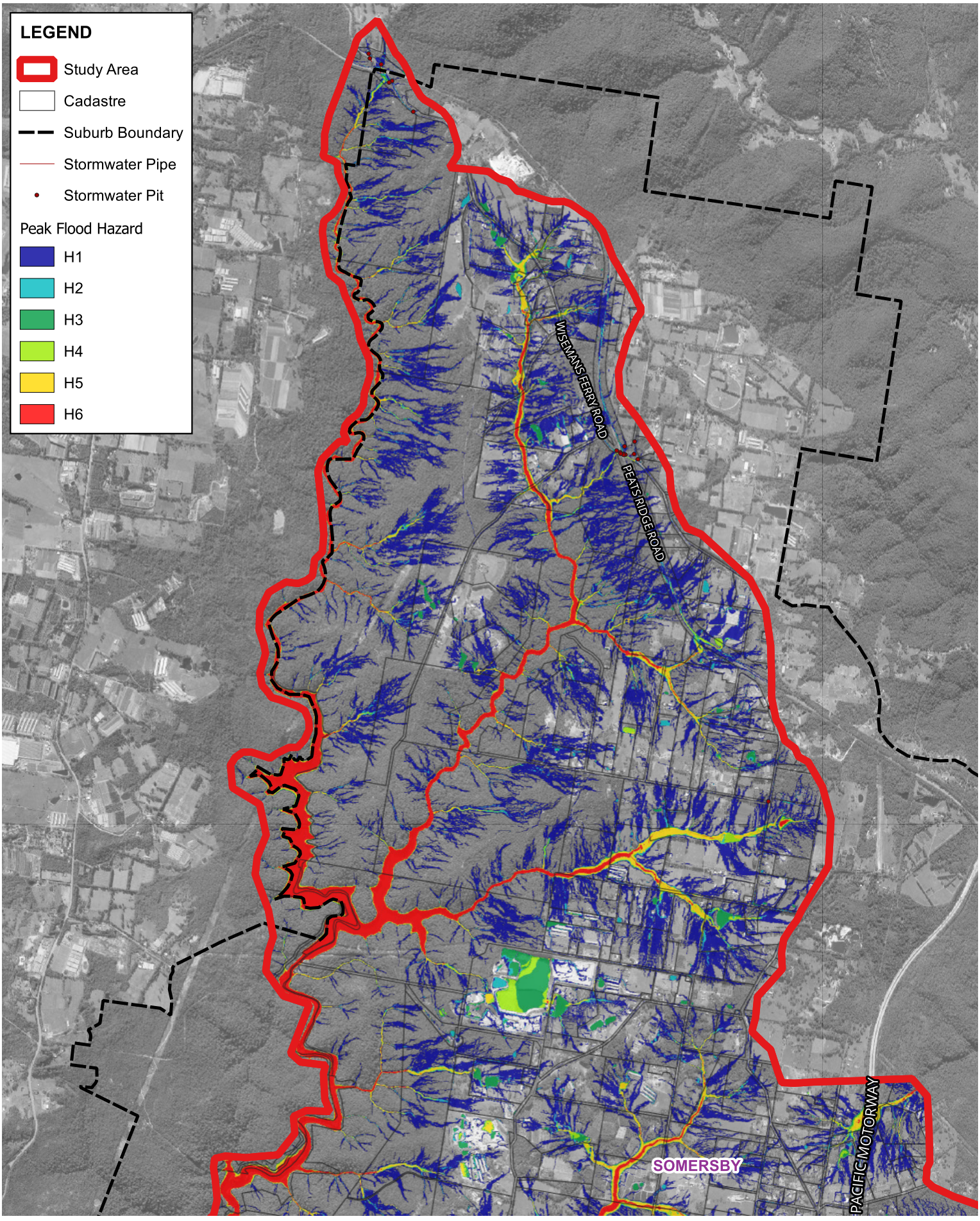
File: \\perfile001\data$\Water_Resources\Projects\SEW353_Kariong_Somersby_Flood_Study\G_GIS\Workspaces\Stage_Final_Draft\MS_Figures.qgz

Scale:

0 0.1 0.2 0.3 0.4 0.5 km

1:20,000

KBR




Title:

# Peak Flood Hazard - Northern Catchment
# PMF Design Event Scenario

Figure: C-96

Rev: 0

Scale at A4 1:40000

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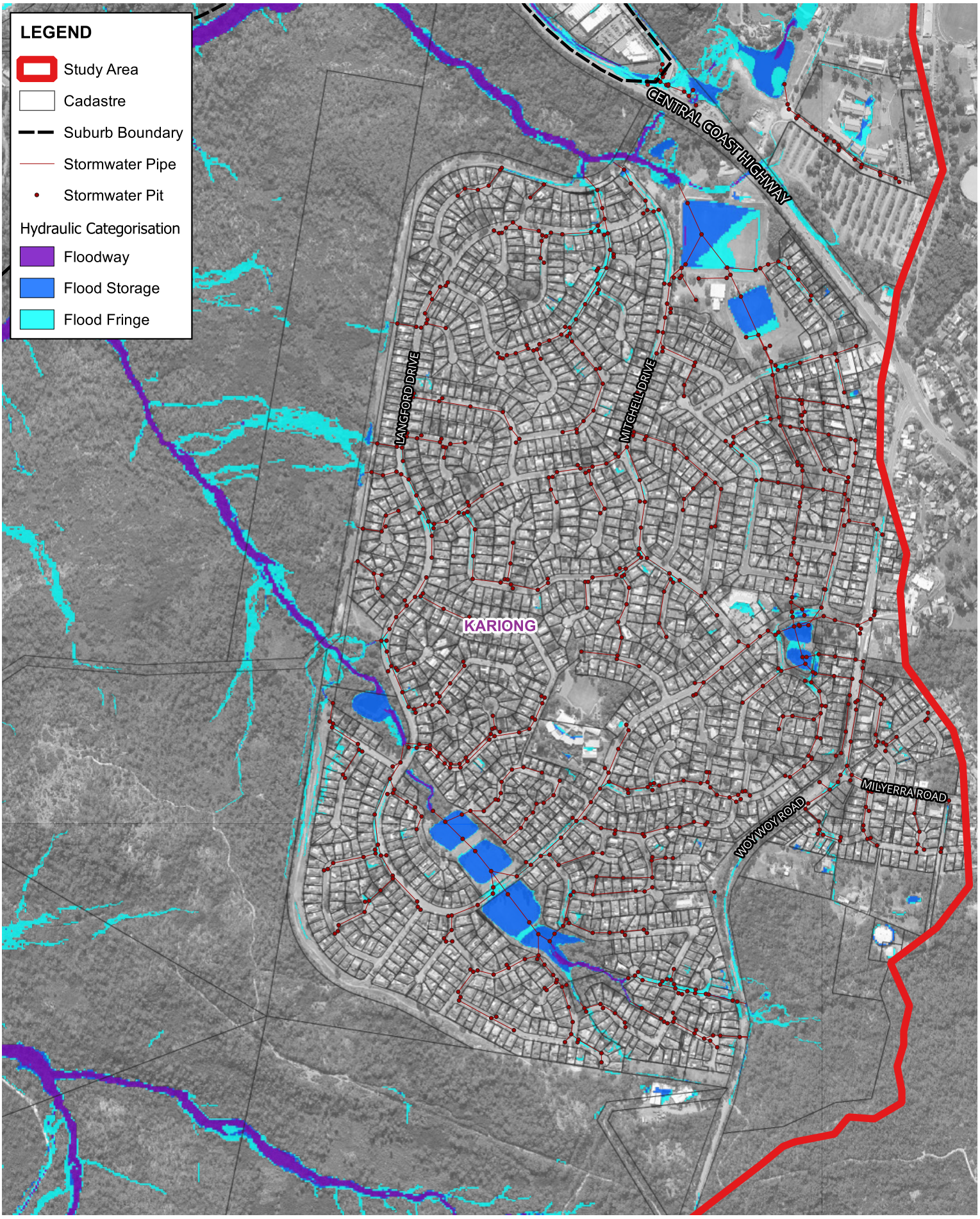
File: \\perfile001\data$\Water_Resources\Projects\SEW353_Kariong_Somersby_Flood_Study\G_GIS\Workspaces\Stage_Final_Draft\MS_Figures.qgz

Scale:

0 0.3 0.6 0.9 1.2 1.5 km

1:40,000

KBR




Title:

# Flood Function - Kariong Town
# 5% AEP Design Event Scenario

Figure: C-97

Rev: 0

Scale at A4 1:10000

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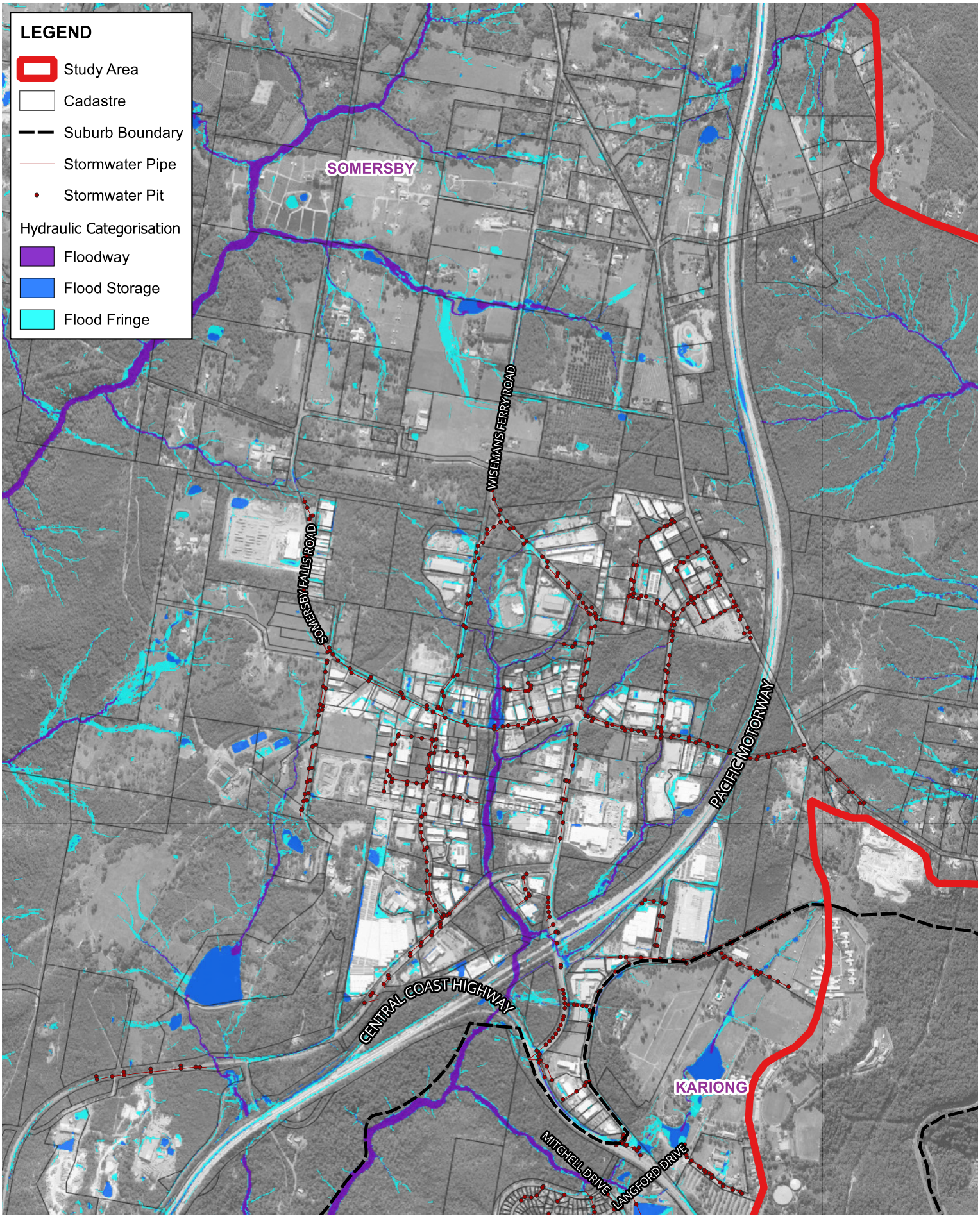
File: \\perfile001\data$\Water_Resources\Projects\SEW353_Kariong_Somersby_Flood_Study\G_GIS\Workspaces\Stage_Final_Draft\MS_Figures.qgz

Scale:

0 0.08 0.16 0.24 0.32 0.4 km

1:10,000




Title:

# Flood Function - Somersby Industrial Area
# 5% AEP Design Event Scenario

Figure: C-98

Rev: 0

Scale at A4 1:20000

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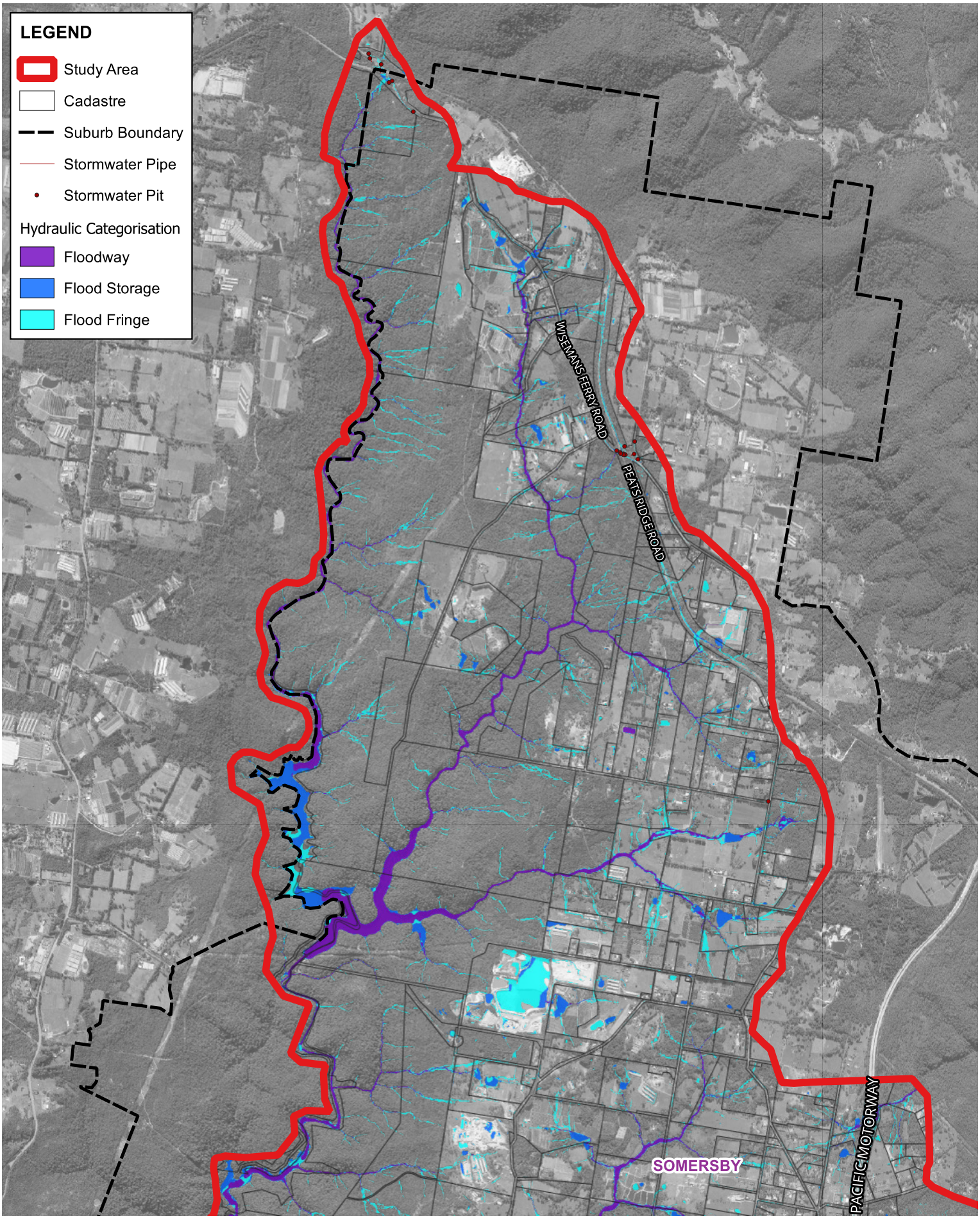
File: \\perfile001\data$\Water_Resources\Projects\SEW353_Kariong_Somersby_Flood_Study\G_GIS\Workspaces\Stage_Final_Draft\MS_Figures.qgz

Scale:

0 0.1 0.2 0.3 0.4 0.5 km

1:20,000

KBR




Title:

# Flood Function - Northern Catchment
# 5% AEP Design Event Scenario

Figure: C-99

Rev: 0

Scale at A4 1:40000

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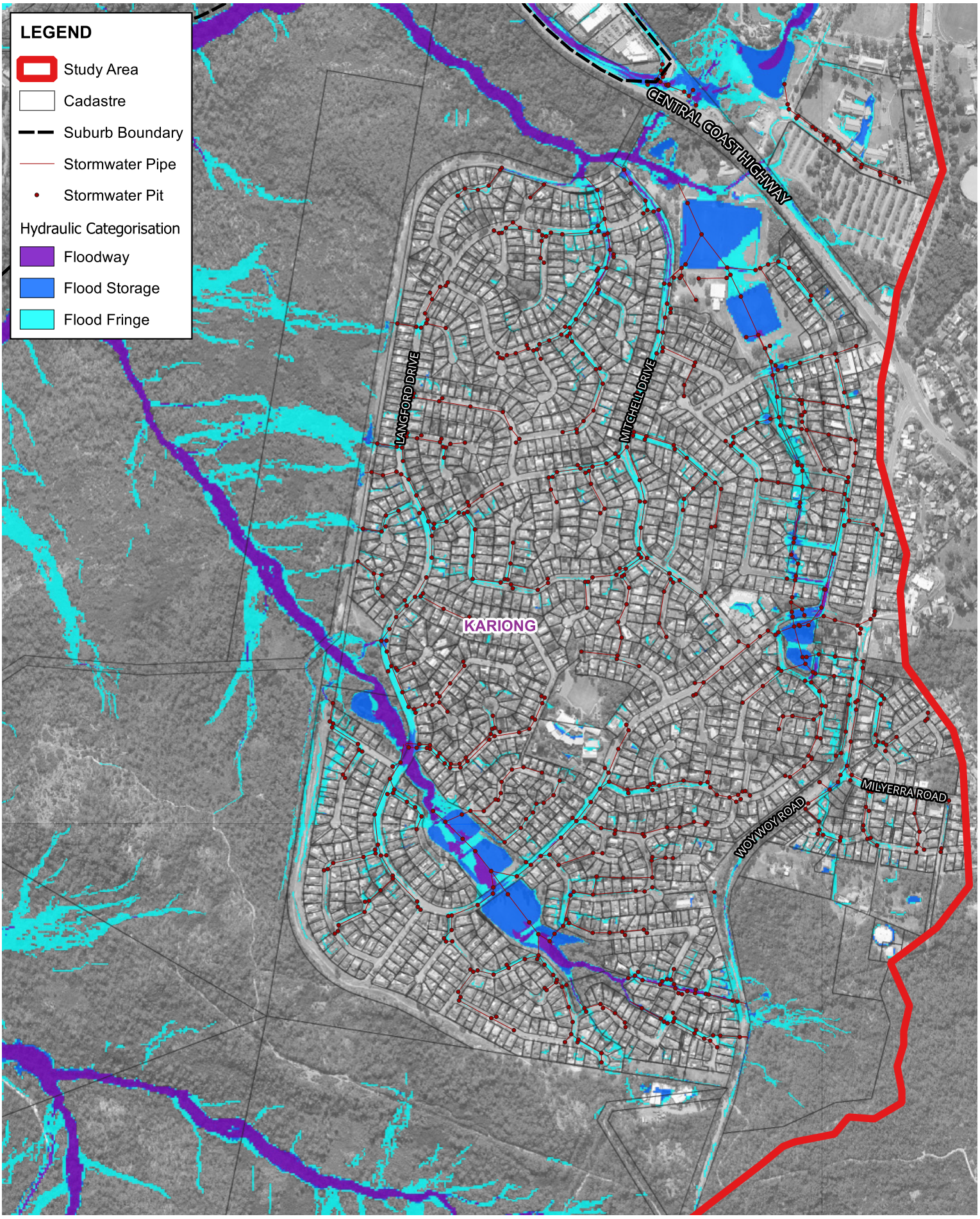
File: \\perfile001\data$\Water_Resources\Projects\SEW353_Kariong_Somersby_Flood_Study\G_GIS\Workspaces\Stage_Final_Draft\MS_Figures.qgz

Scale:

0 0.3 0.6 0.9 1.2 1.5 km

1:40,000

KBR




Title:

# Flood Function - Kariong Town
# 1% AEP Design Event Scenario

Figure: C-100

Rev: 0

Scale at A4 1:10000
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File: \\perfile001\data$\Water_Resources\Projects\SEW353_Kariong_Somersby_Flood_Study\G_GIS\Workspaces\Stage_Final_Draft\MS_Figures.qgz

Scale:

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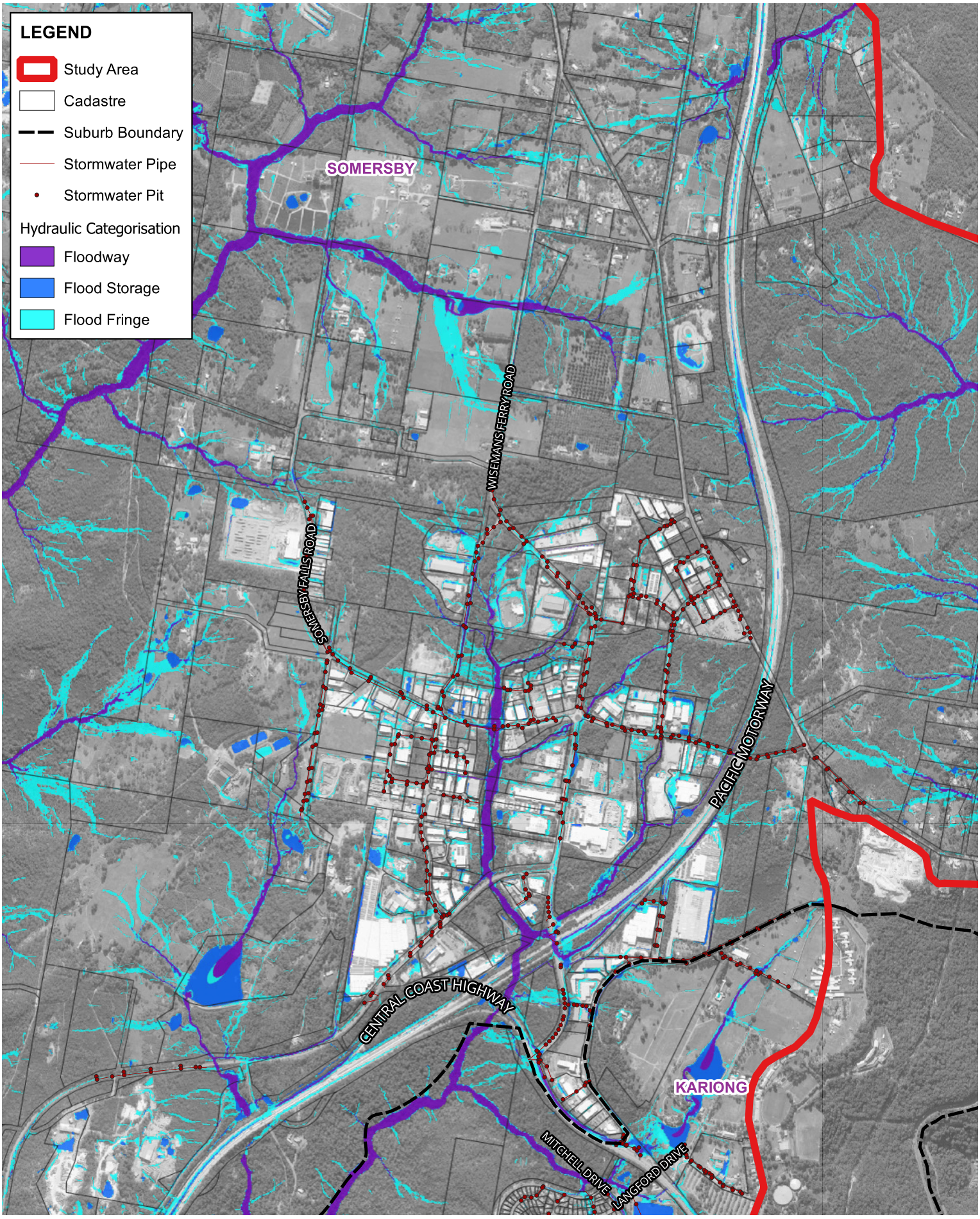
1:10,000




Title:

# Flood Function - Somersby Industrial Area
# 1% AEP Design Event Scenario

Figure: C-101

Rev: 0

Scale at A4 1:20000

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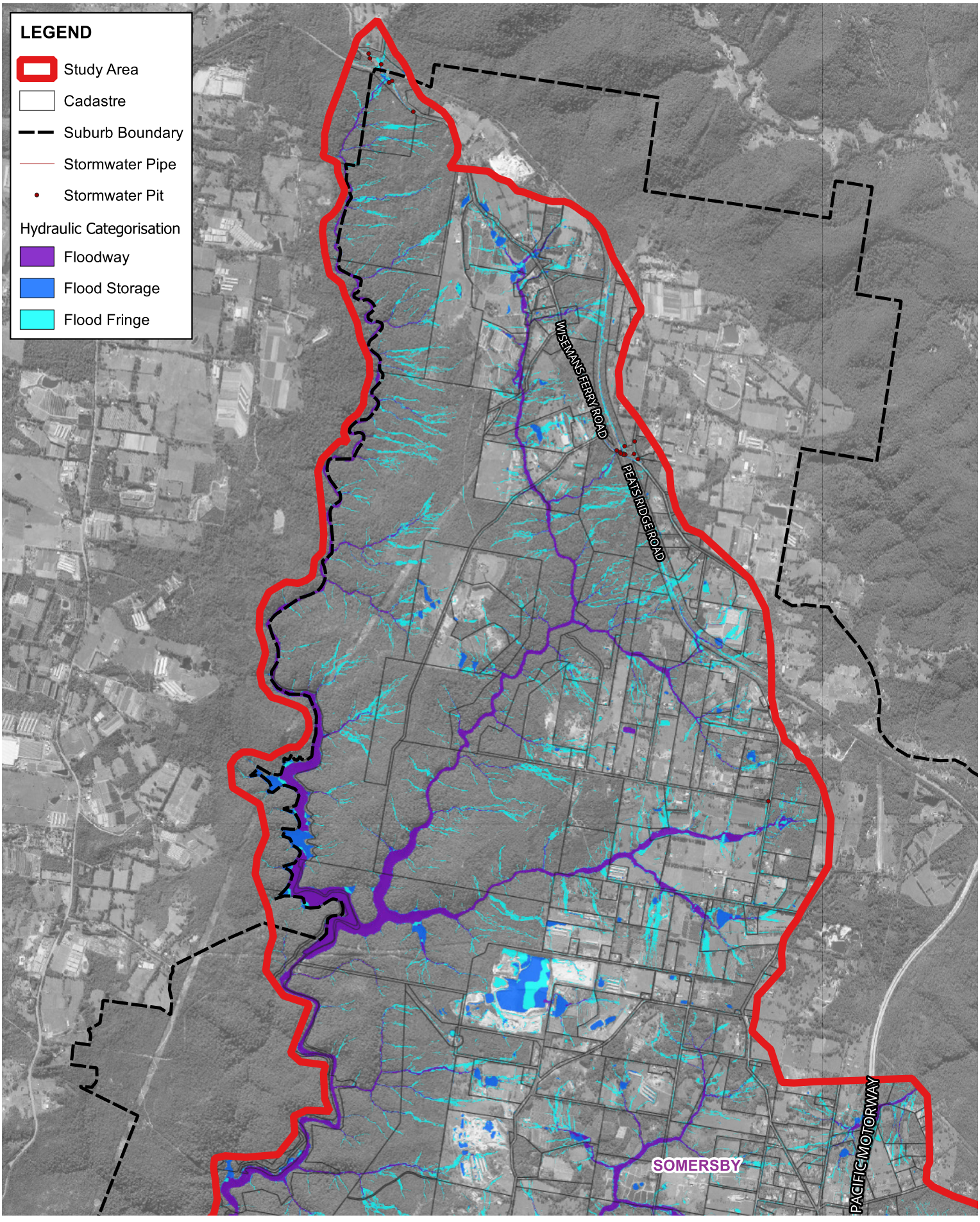
File: \\perfile001\data$\Water_Resources\Projects\SEW353_Kariong_Somersby_Flood_Study\G_GIS\Workspaces\Stage_Final_Draft\MS_Figures.qgz

Scale:

0 0.1 0.2 0.3 0.4 0.5 km

1:20,000

KBR




Title:

# Flood Function - Northern Catchment
# 1% AEP Design Event Scenario

Figure: C-102

Rev: 0

Scale at A4 1:40000
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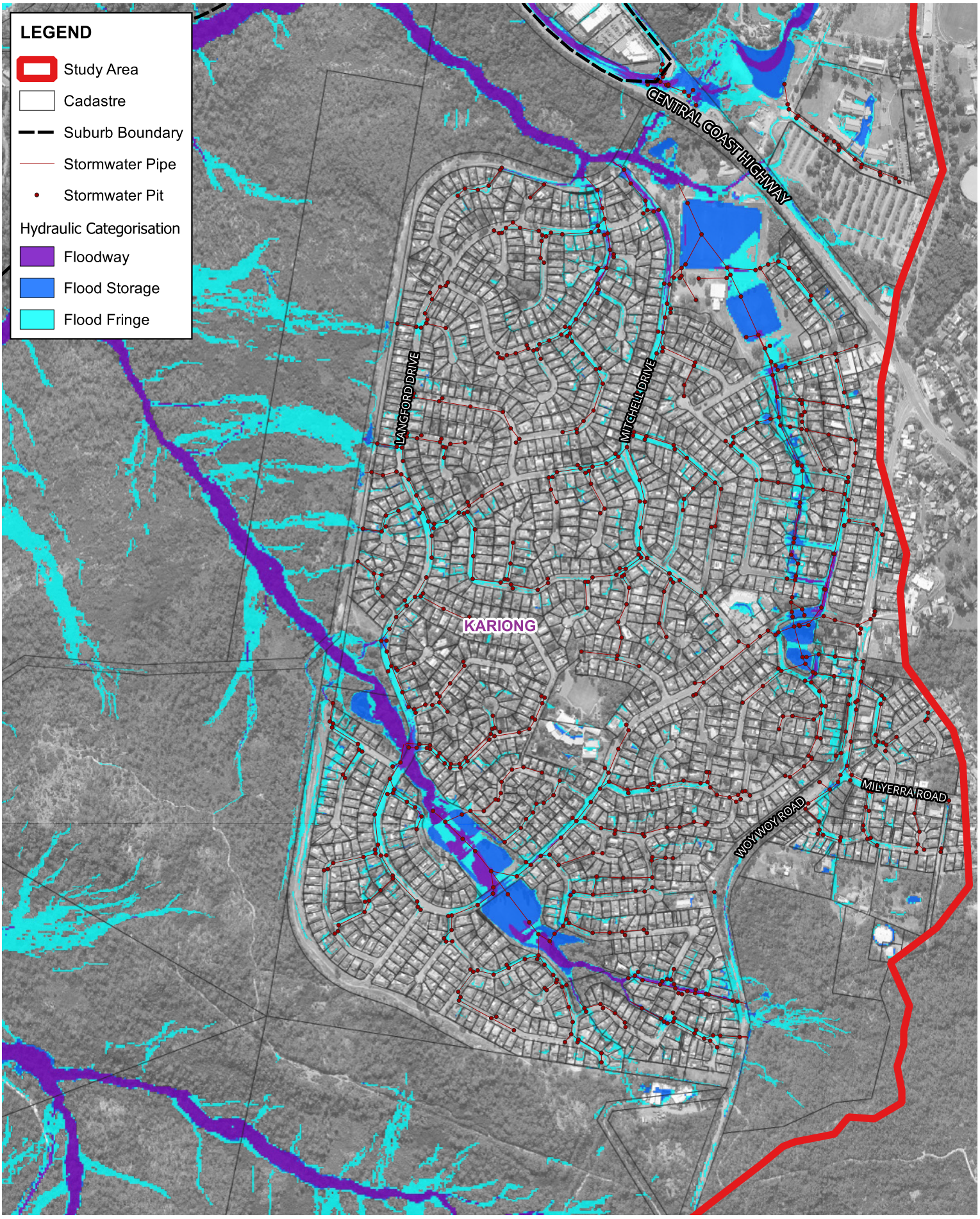
File: \\perfile001\data$\Water_Resources\Projects\SEW353_Kariong_Somersby_Flood_Study\G_GIS\Workspaces\Stage_Final_Draft\MS_Figures.qgz

Scale:

0 0.3 0.6 0.9 1.2 1.5 km

1:40,000

KBR




Title:

# Flood Function - Kariong Town
# 1 in 200 AEP Design Event Scenario

Figure: C-103

Rev: 0

Scale at A4 1:10000
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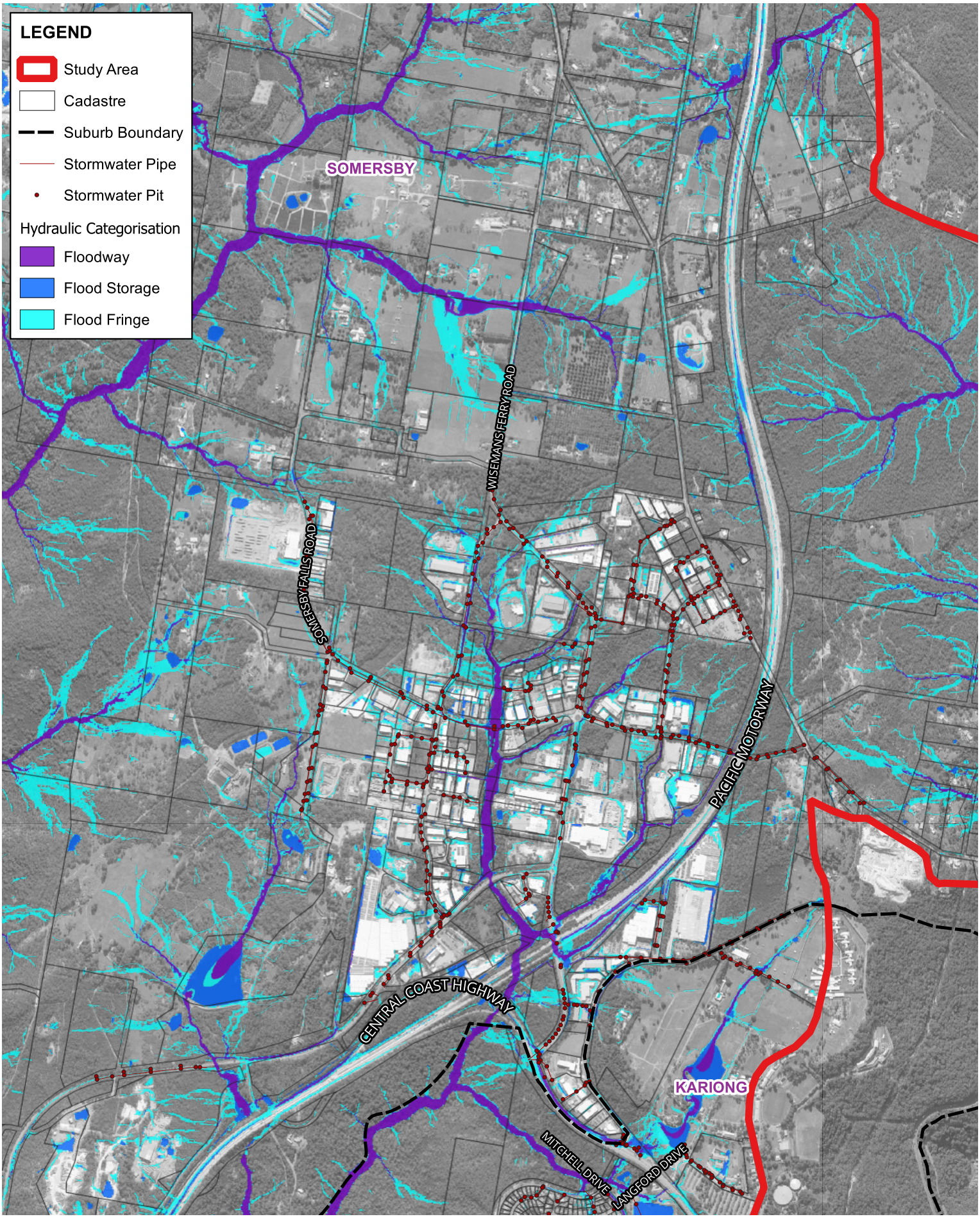
File: \\perfile001\data$\Water_Resources\Projects\SEW353_Kariong_Somersby_Flood_Study\G_GIS\Workspaces\Stage_Final_Draft\MS_Figures.qgz

Scale:

0 0.08 0.16 0.24 0.32 0.4 km

1:10,000




Title:

# Flood Function - Somersby Industrial Area
# 1 in 200 AEP Design Event Scenario

Figure: C-104

Rev: 0

Scale at A4 1:20000

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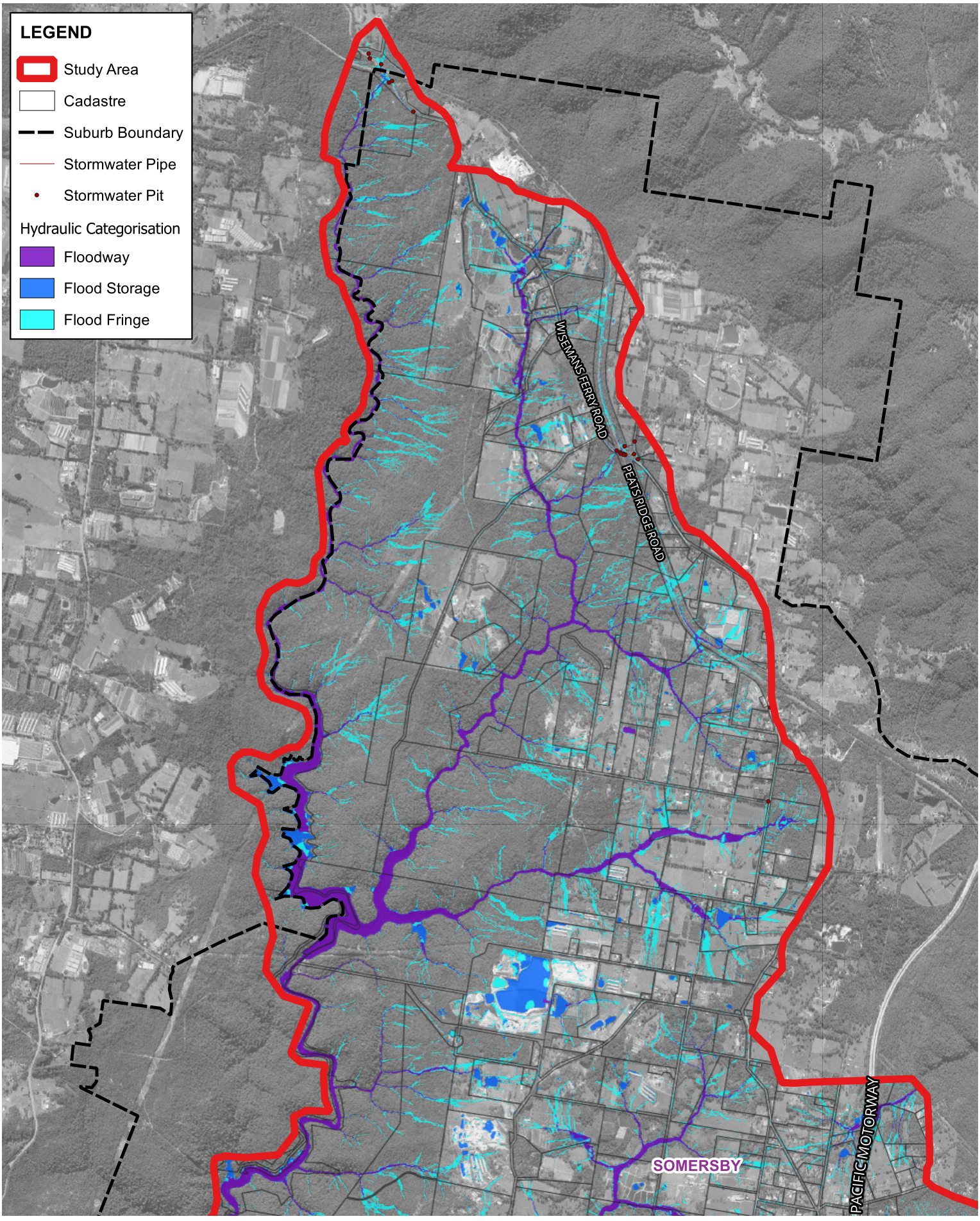
Scale:

0 0.1 0.2 0.3 0.4 0.5 km

1:20,000

KBR




Title:

# Flood Function - Northern Catchment
# 1 in 200 AEP Design Event Scenario

Figure: C-105

Rev: 0

Scale at A4 1:40000

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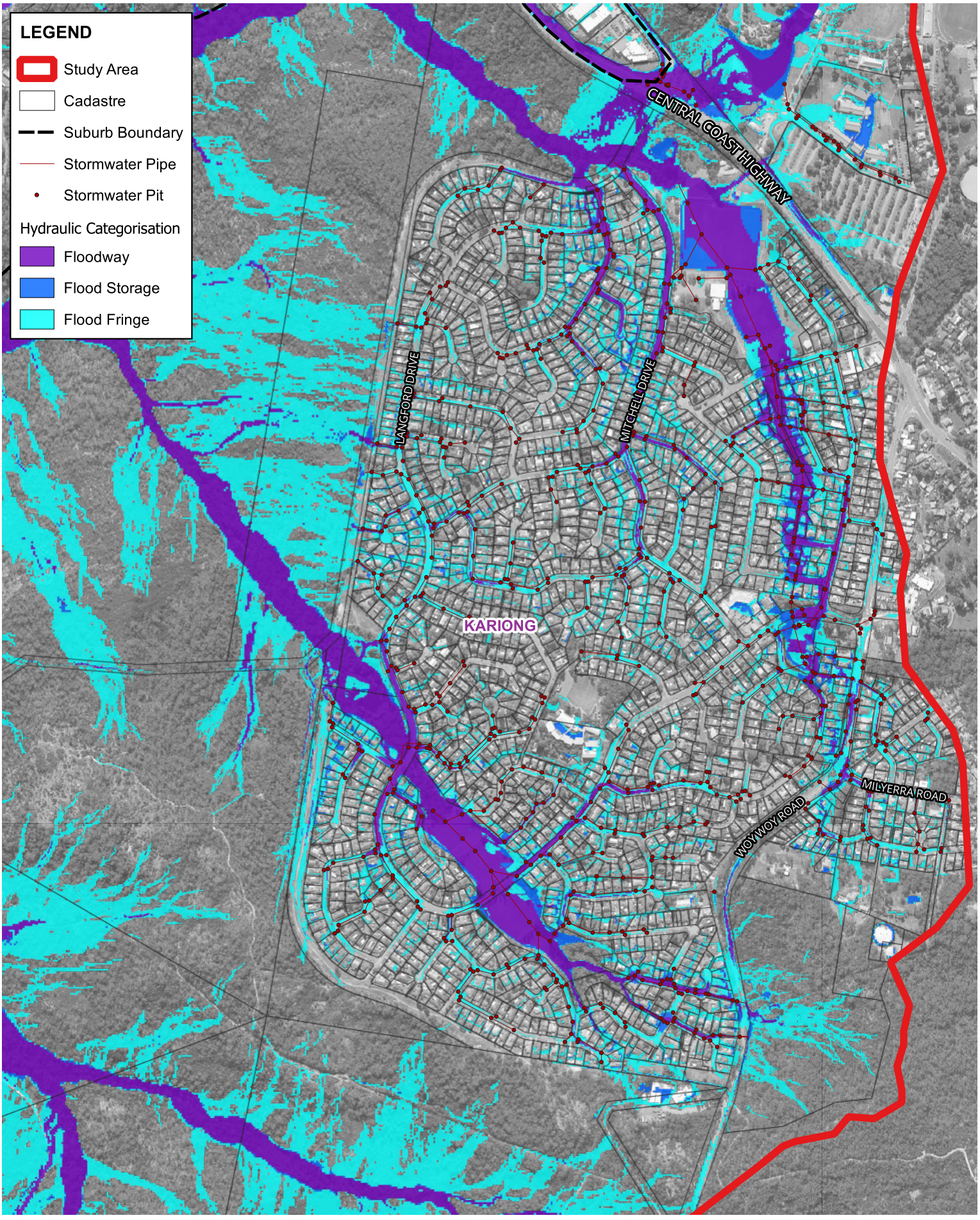
File: \\perfile001\data$\Water_Resources\Projects\SEW353_Kariong_Somersby_Flood_Study\G_GIS\Workspaces\Stage_Final_Draft\MS_Figures.qgz

Scale:

0 0.3 0.6 0.9 1.2 1.5 km

1:40,000

KBR




Title:

# Flood Function - Kariong Town
# PMF Design Event Scenario

Figure: C-106

Rev: 0

Scale at A4 1:10000
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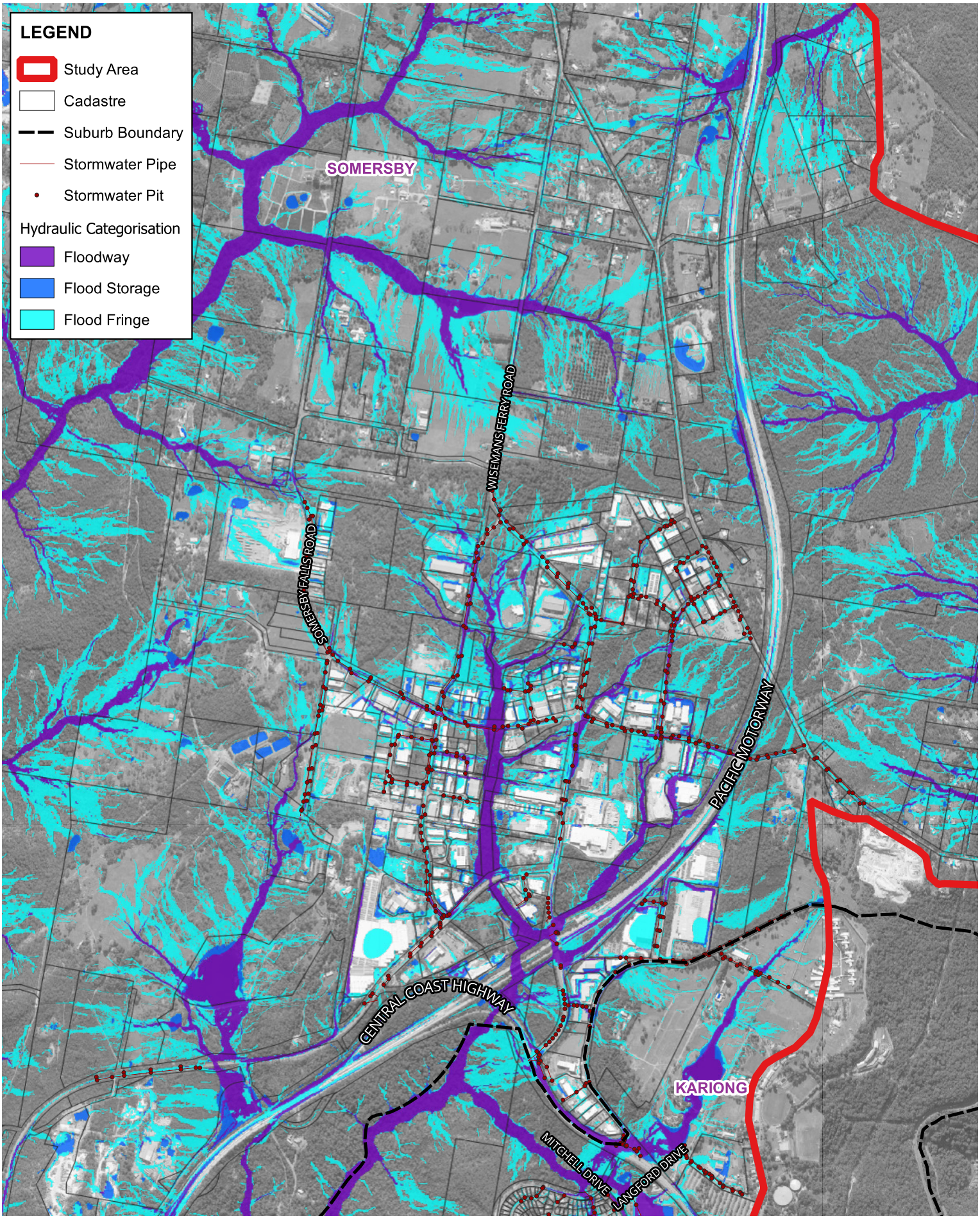
File: \\perfile001\data$\Water_Resources\Projects\SEW353_Kariong_Somersby_Flood_Study\G_GIS\Workspaces\Stage_Final_Draft\MS_Figures.qgz

Scale:

0 0.08 0.16 0.24 0.32 0.4 km

1:10,000




Title:

# Flood Function - Somersby Industrial Area
# PMF Design Event Scenario

Figure: C-107

Rev: 0

Scale at A4 1:20000

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Scale:

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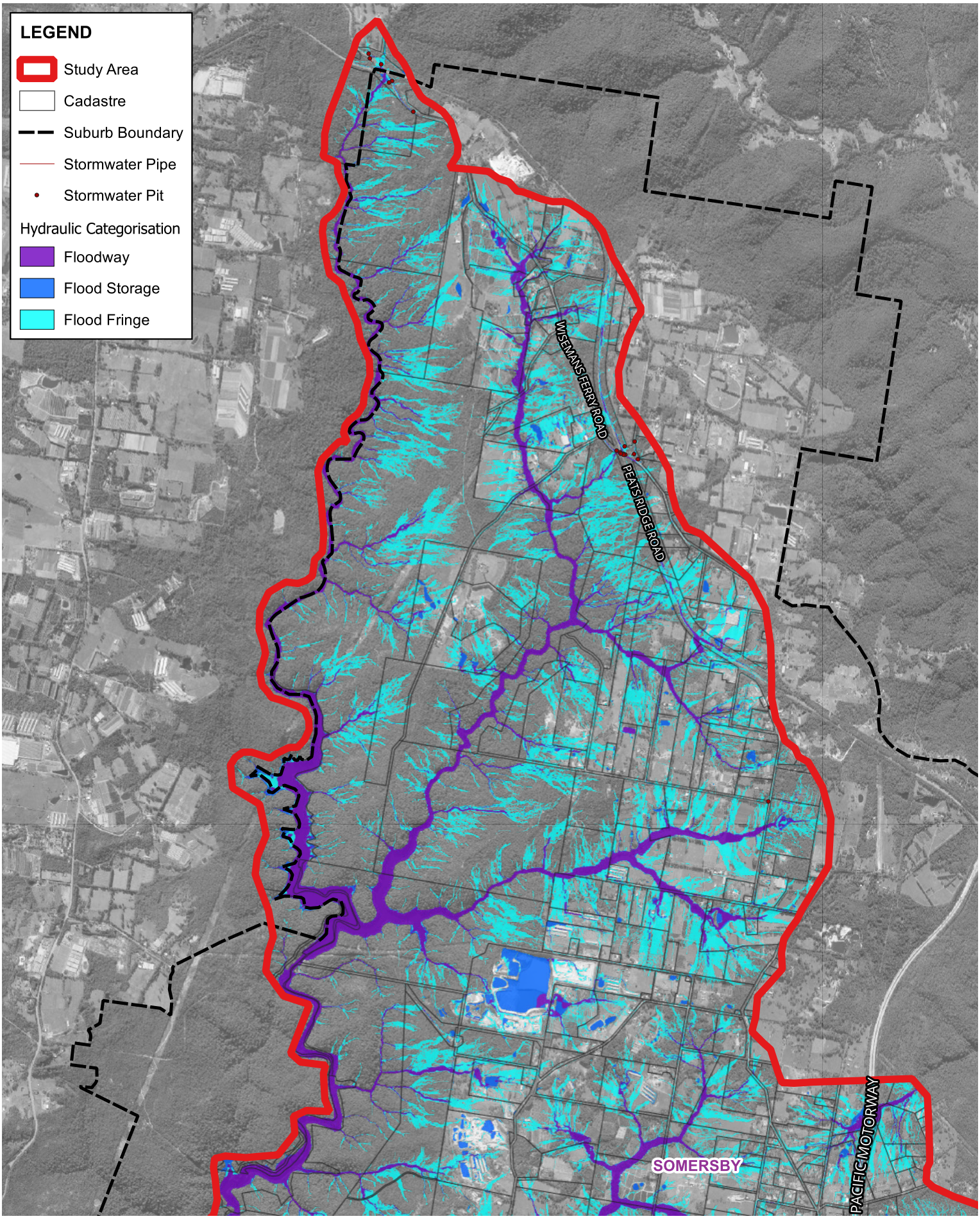
KBR




Title:

# Flood Function - Northern Catchment
# PMF Design Event Scenario

Figure: C-108

Rev: 0

Scale at A4 1:40000

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Scale:

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KBR

# Appendix D: Sensitivity Figures

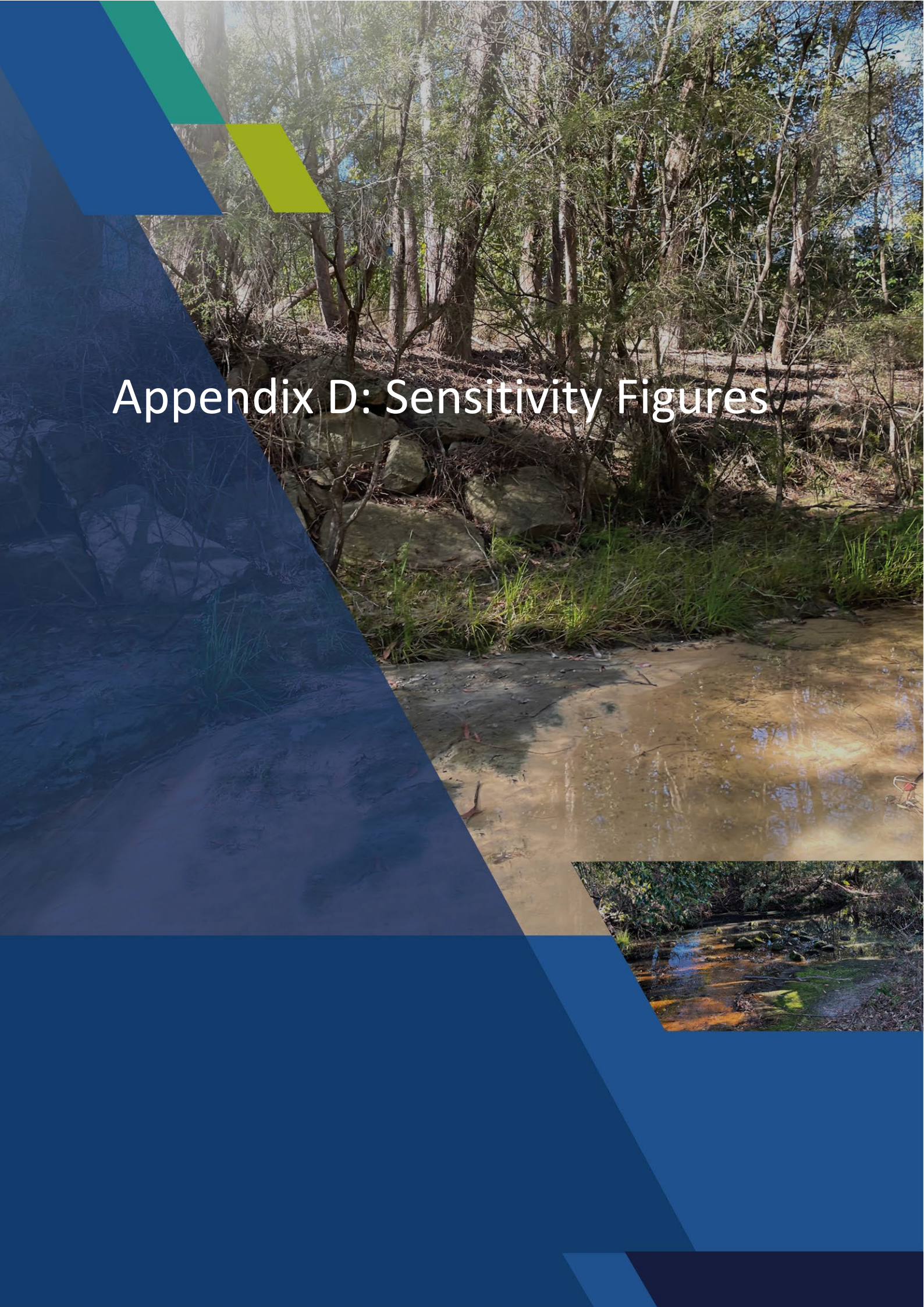

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Figure D-24: Difference in Peak Flood Level – Northern Catchment, 1 in 100 AEP -20% CL Minus Design

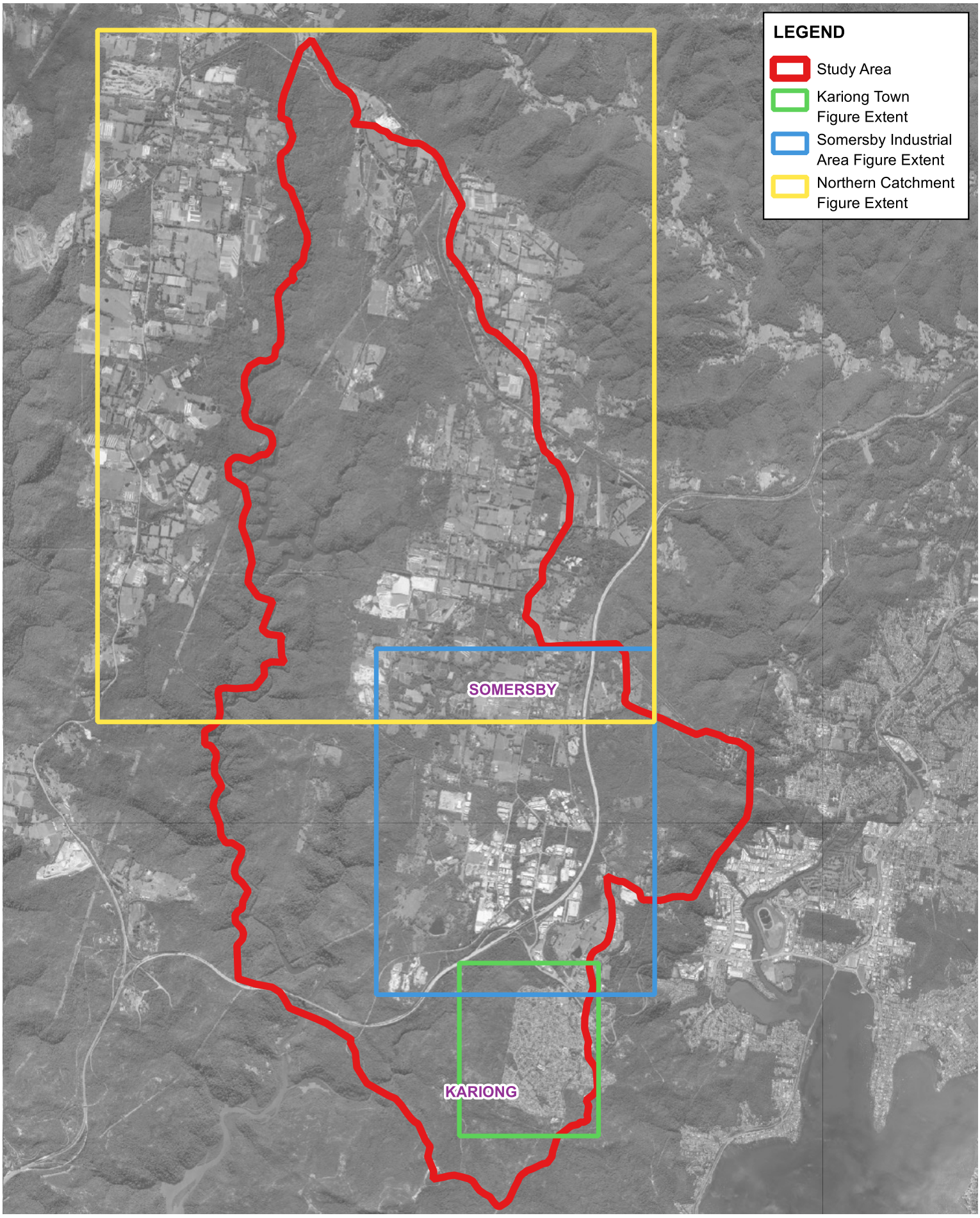


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Figure: D-0

Rev: 0

Scale at A4 1:70000

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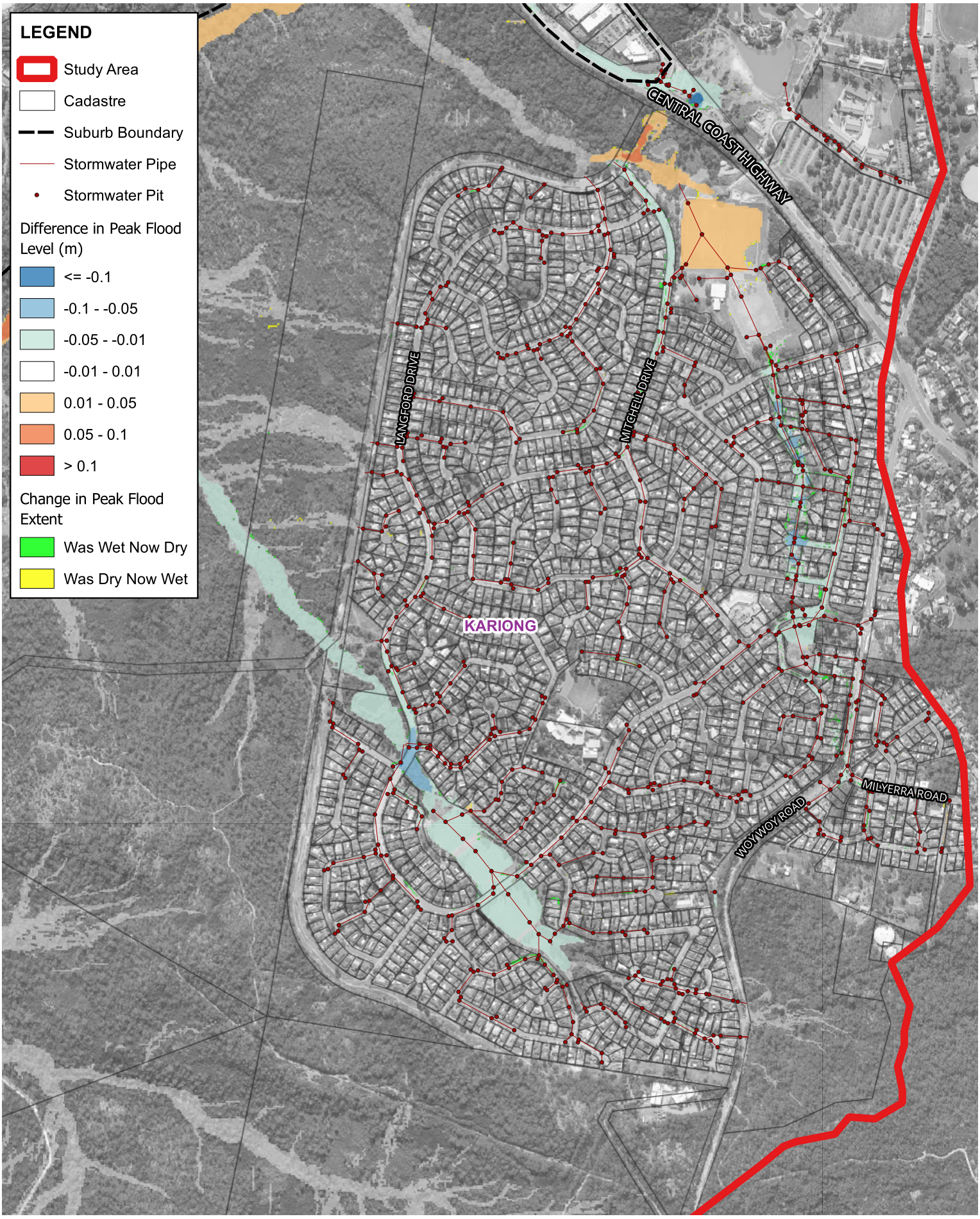


Title:

# Difference in Peak Flood Level - Kariong Town
# 1 in 100 AEP Unblocked Minus Design

Figure: D-1

Rev: 0

Scale at A4 1:10000

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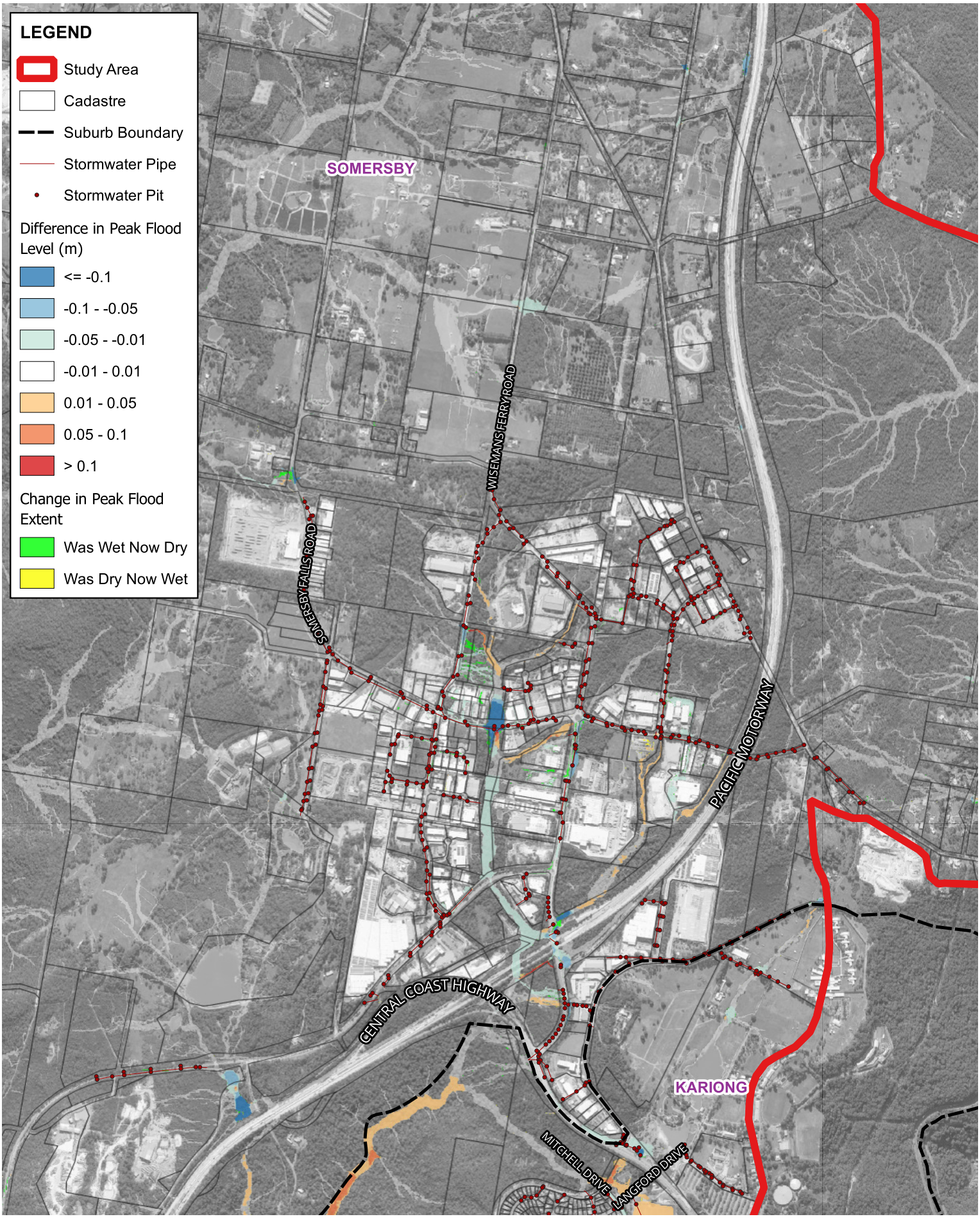


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# Difference in Peak Flood Level - Somersby Industrial Area 1 in 100 AEP Unblocked Minus Design

Figure: D-2

Rev: 0

Scale at A4 1:20000

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Scale:

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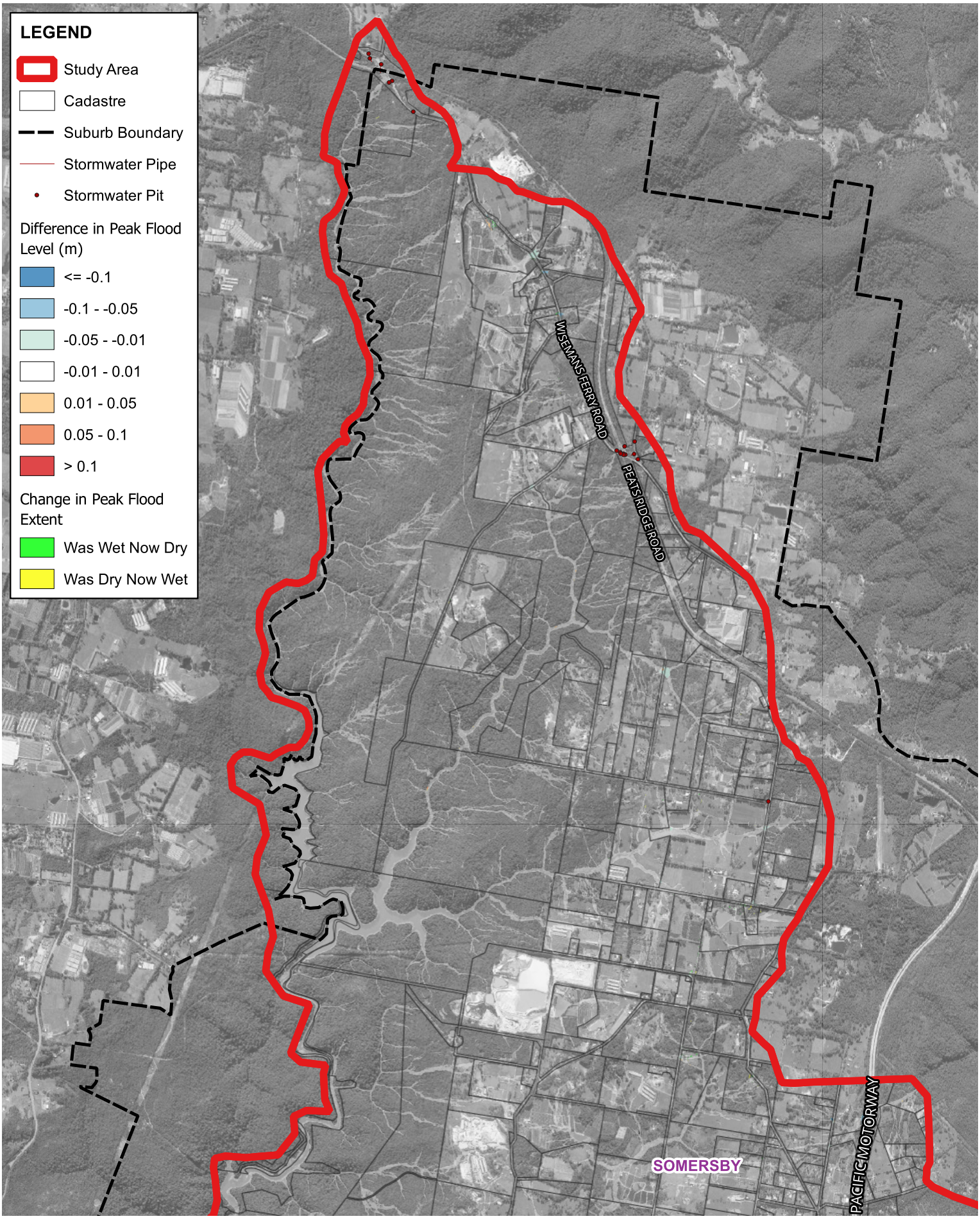
KBR

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# Difference in Peak Flood Level - Northern Catchment 1 in 100 AEP Unblocked Minus Design

Figure: D-3

Rev: 0

Scale at A4 1:40000

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Scale:

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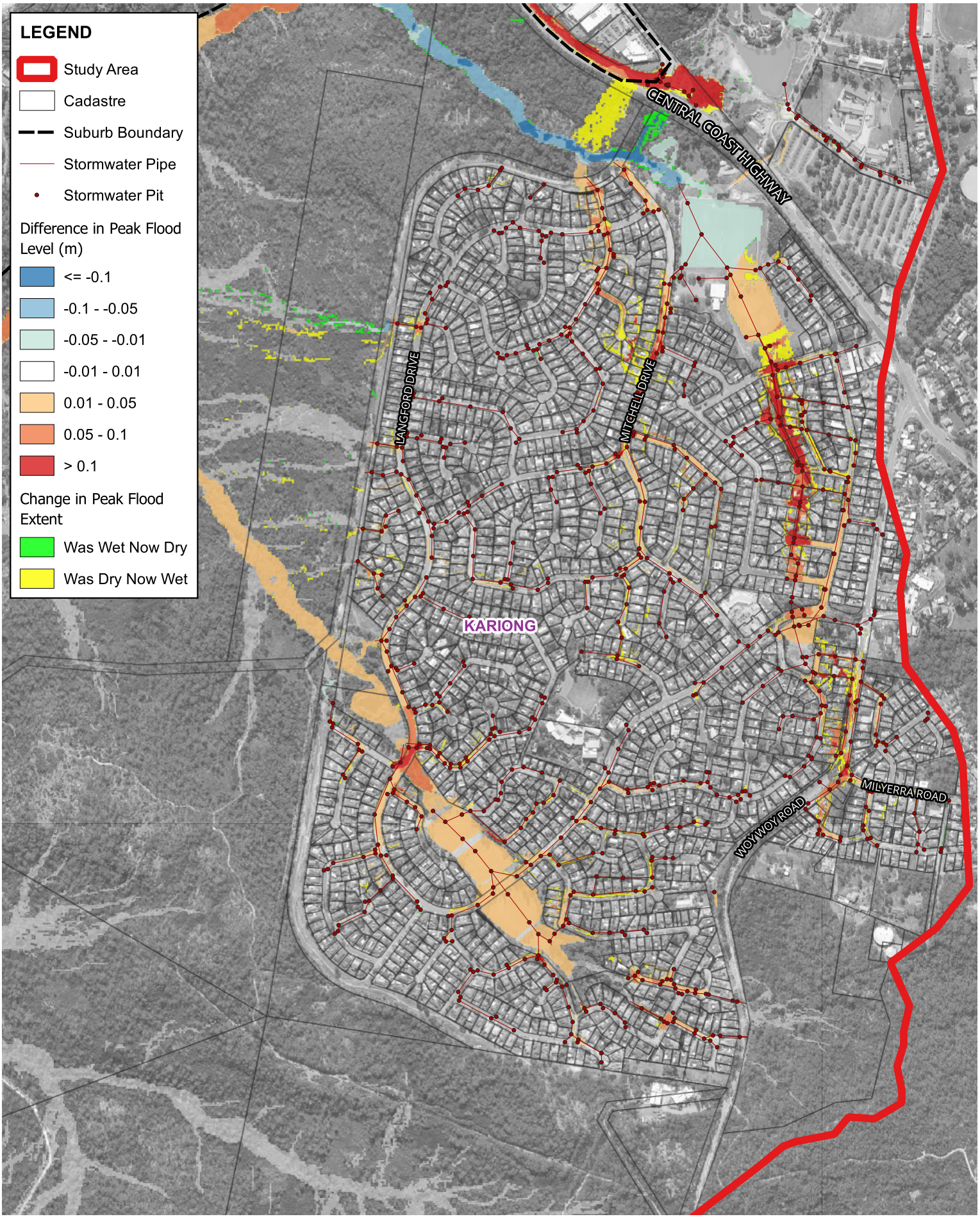


Title:

# Difference in Peak Flood Level - Kariong Town
# 1 in 100 AEP High Blockage Minus Design

Figure: D-4

Rev: 0

Scale at A4 1:10000

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Scale:

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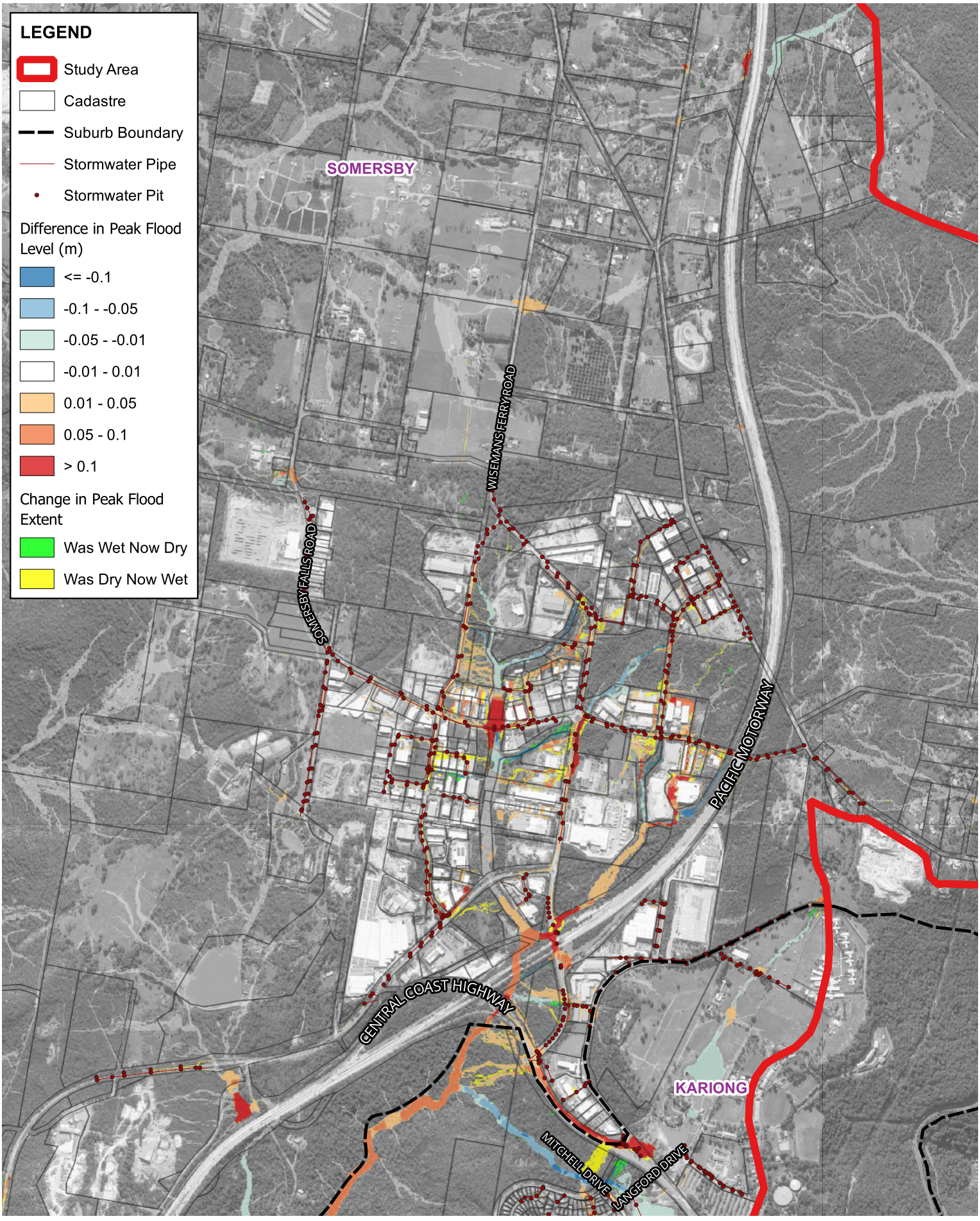


Title:

# Difference in Peak Flood Level - Somersby Industrial Area
# 1 in 100 AEP High Blockage Minus Design

Figure: D-5

Rev: 0

Scale at A4 1:20000

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Scale:

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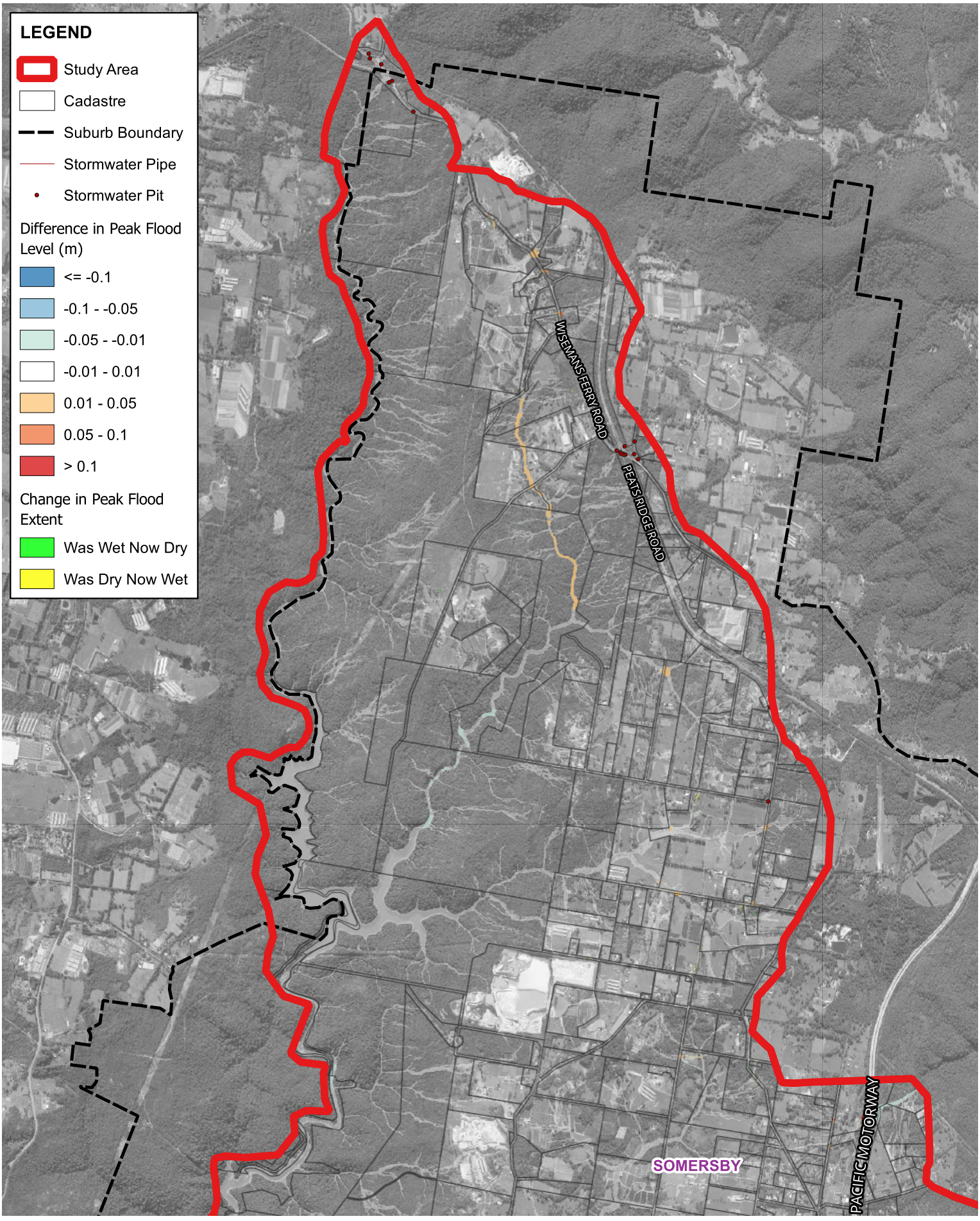


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# Difference in Peak Flood Level - Northern Catchment
# 1 in 100 AEP High Blockage Minus Design

Figure: D-6

Rev: 0

Scale at A4 1:40000

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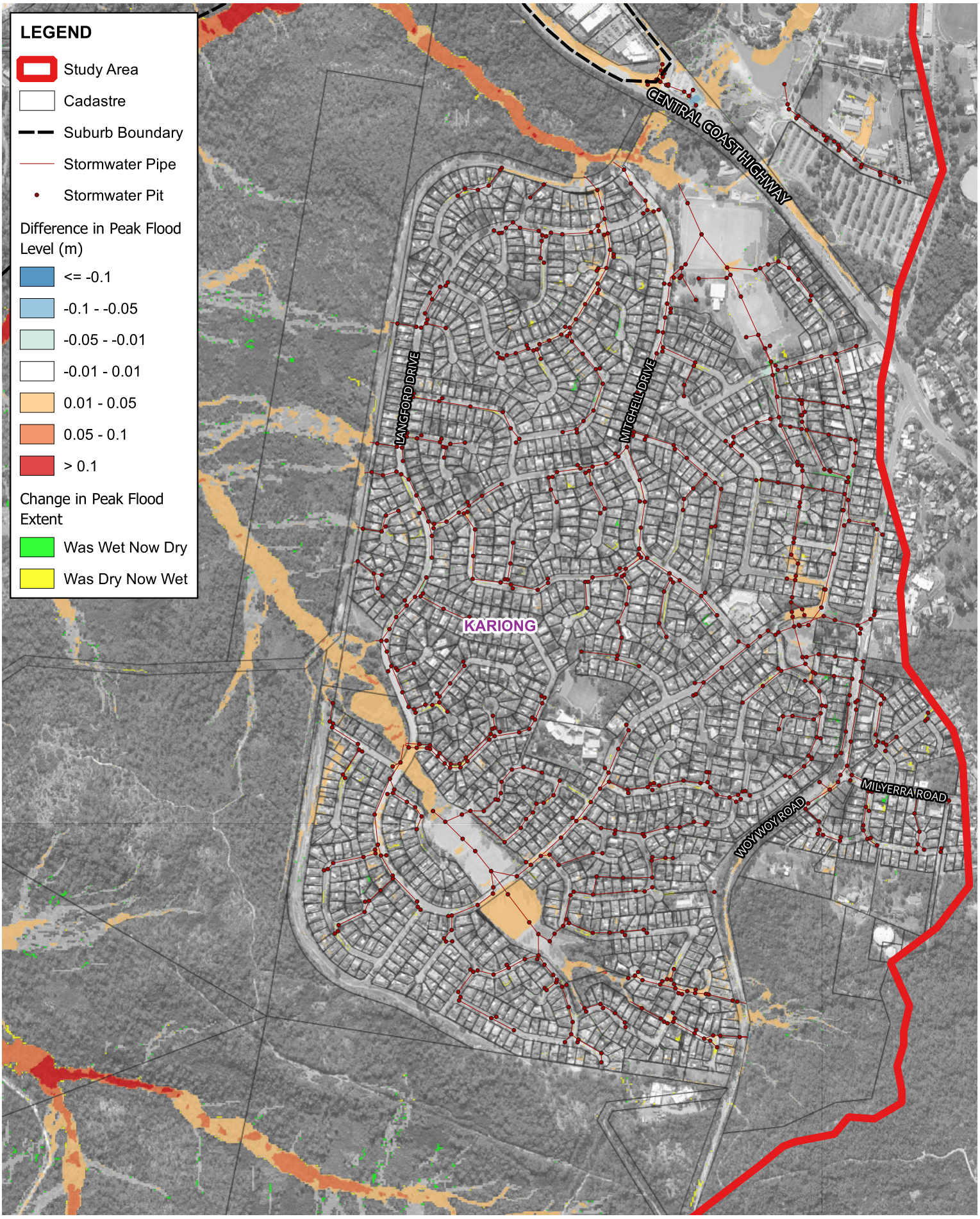


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# Difference in Peak Flood Level - Kariong Town
# 1 in 100 AEP +20% Mannings Minus Design

Figure: D-7

Rev: 0

Scale at A4 1:10000

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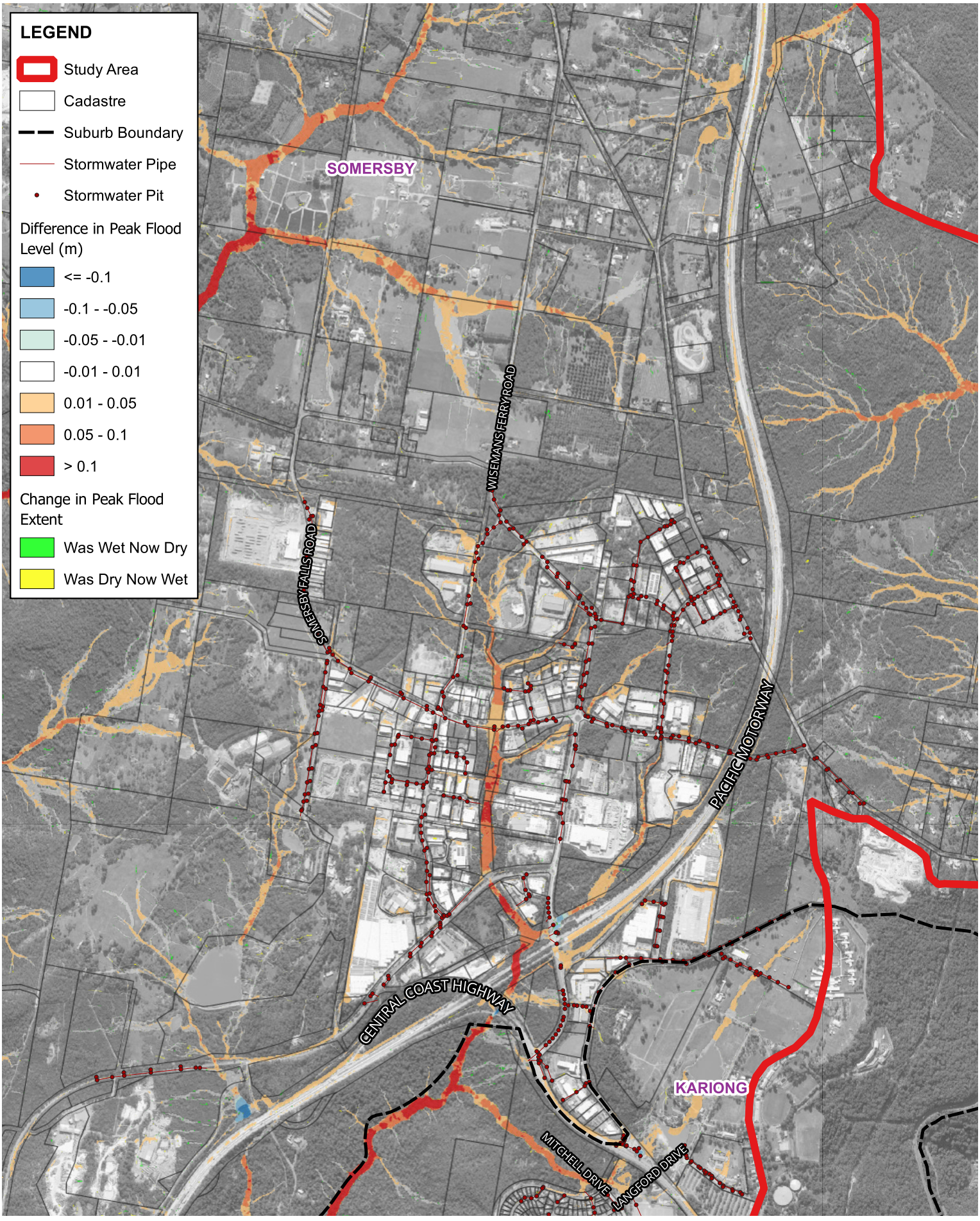


Title:

# Difference in Peak Flood Level - Somersby Industrial Area
# 1 in 100 AEP +20% Mannings Minus Design

Figure: D-8

Rev: 0

Scale at A4 1:20000
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Scale:

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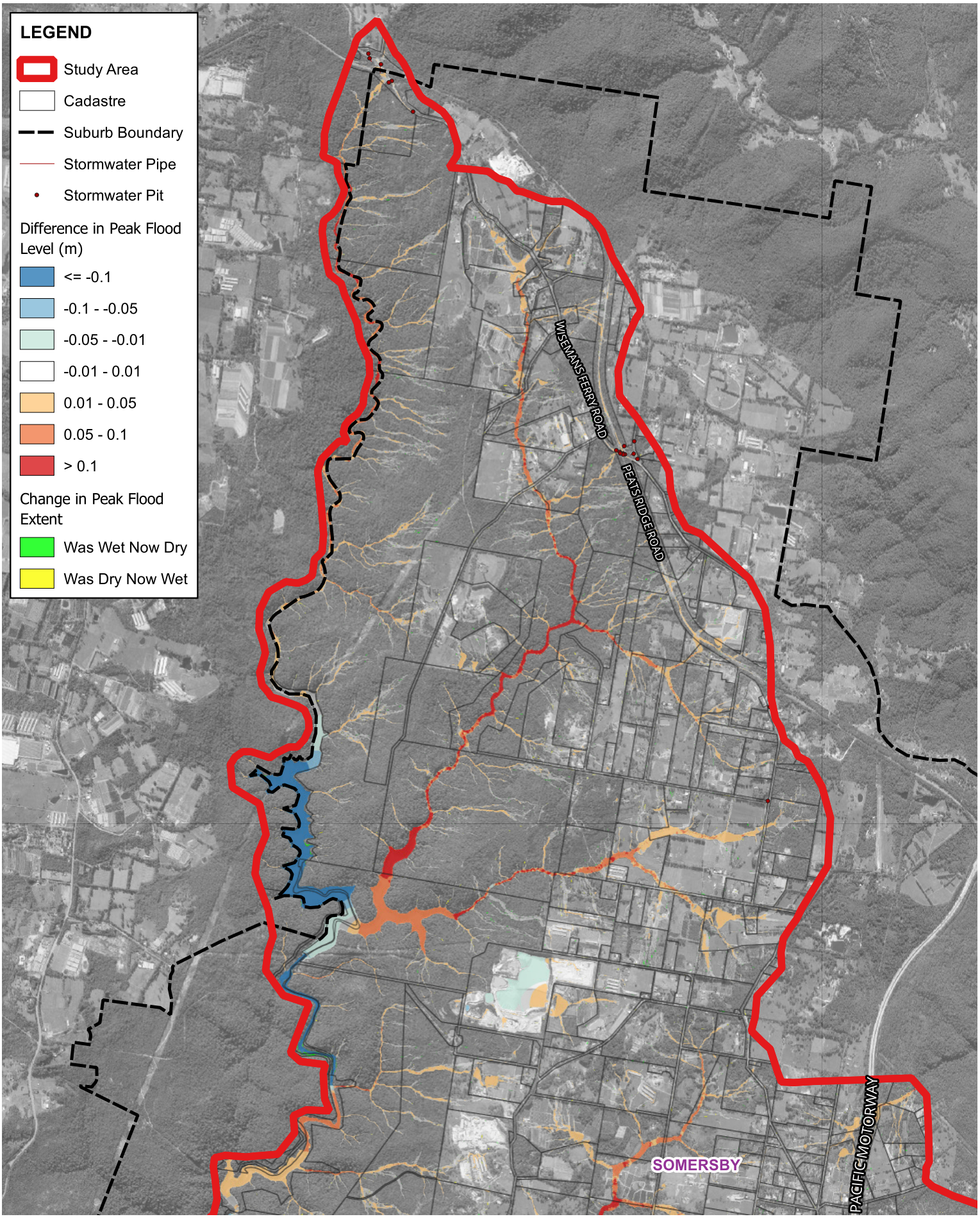


Title:

# Difference in Peak Flood Level - Northern Catchment
# 1 in 100 AEP +20% Mannings Minus Design

Figure: D-9

Rev: 0

Scale at A4 1:40000

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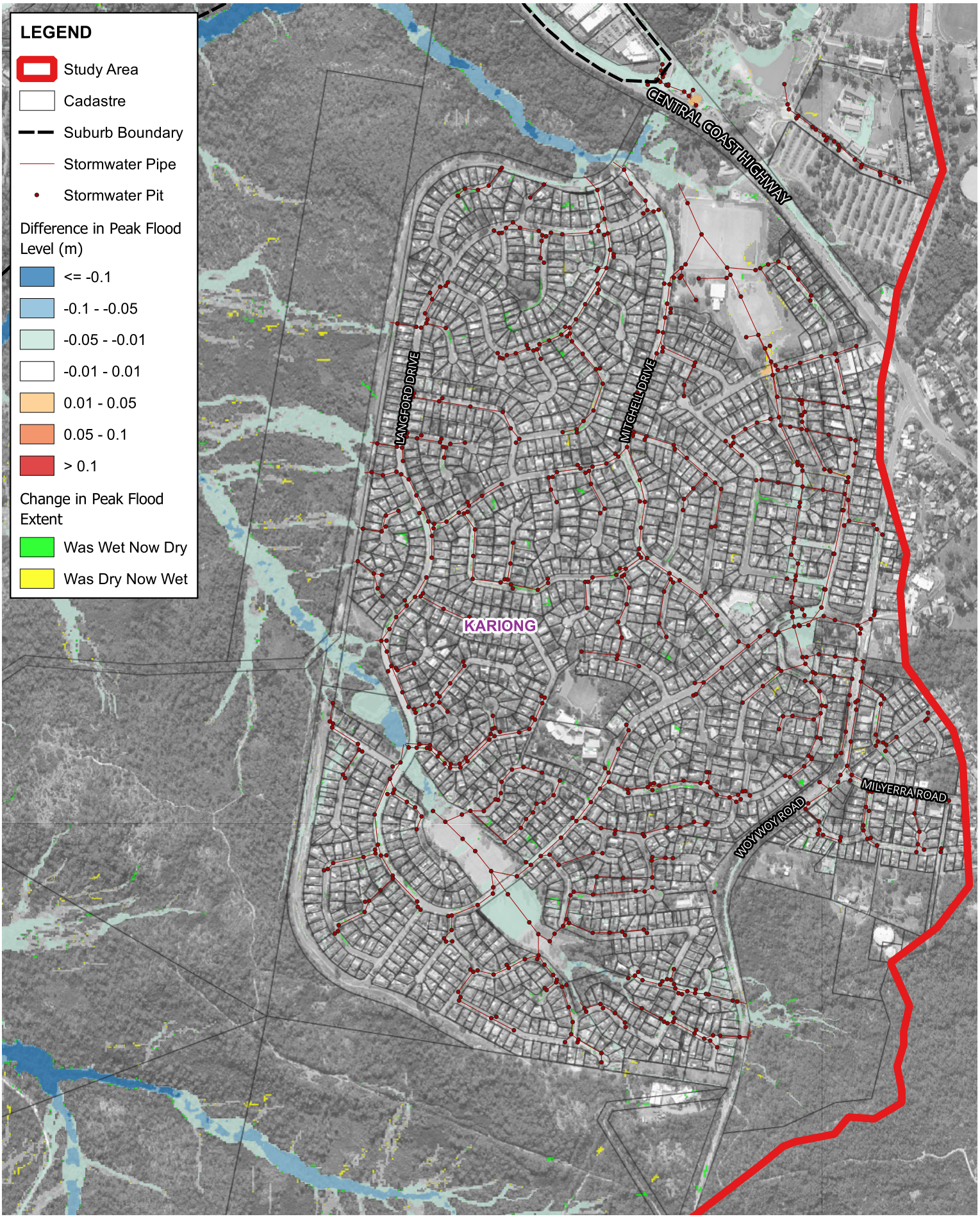


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# Difference in Peak Flood Level - Kariong Town
# 1 in 100 AEP -20% Mannings Minus Design

Figure: D-10

Rev: 0

Scale at A4 1:10000

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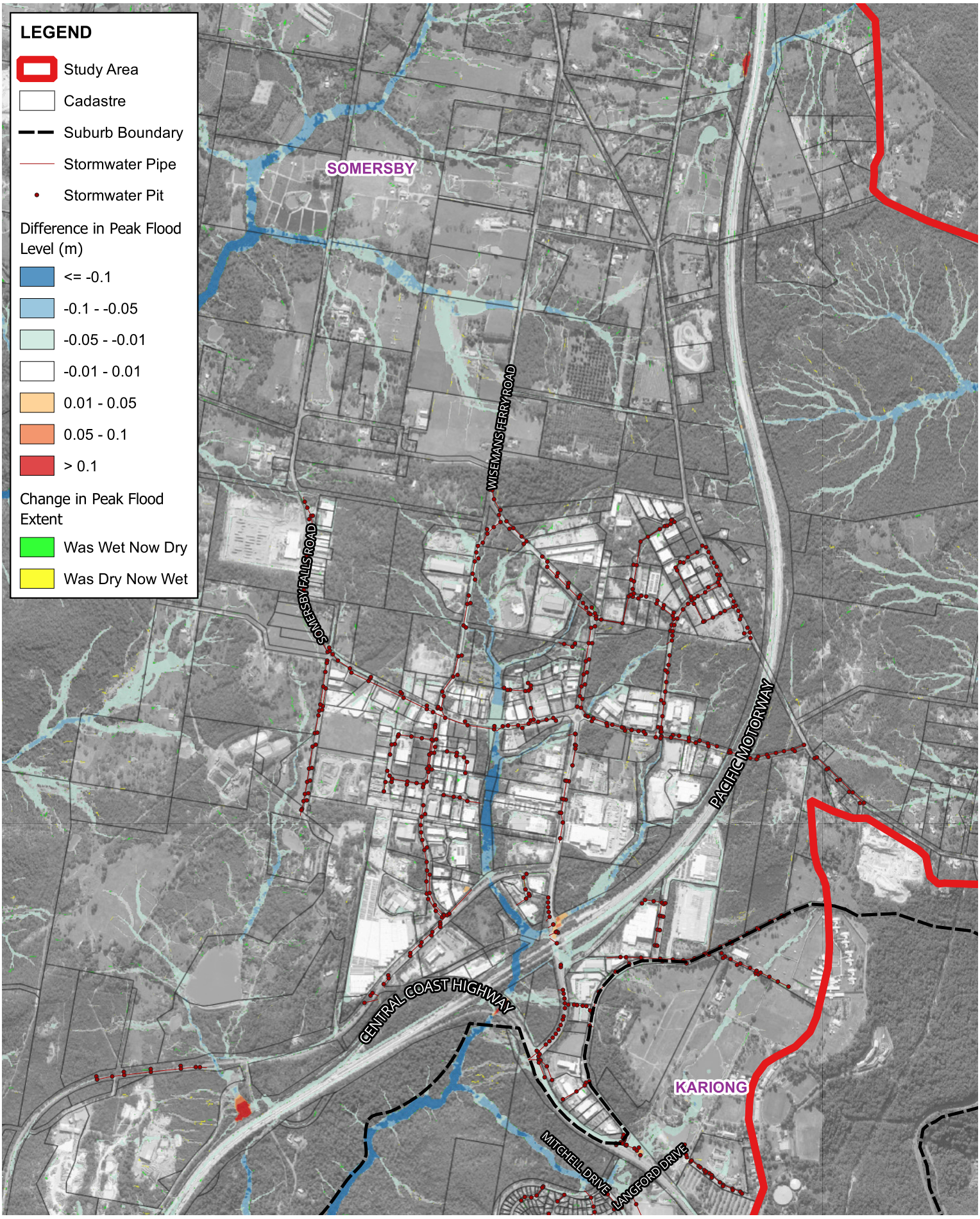


Title:

# Difference in Peak Flood Level - Somersby Industrial Area
# 1 in 100 AEP -20% Mannings Minus Design

Figure: D-11

Rev: 0

Scale at A4 1:20000
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Scale:

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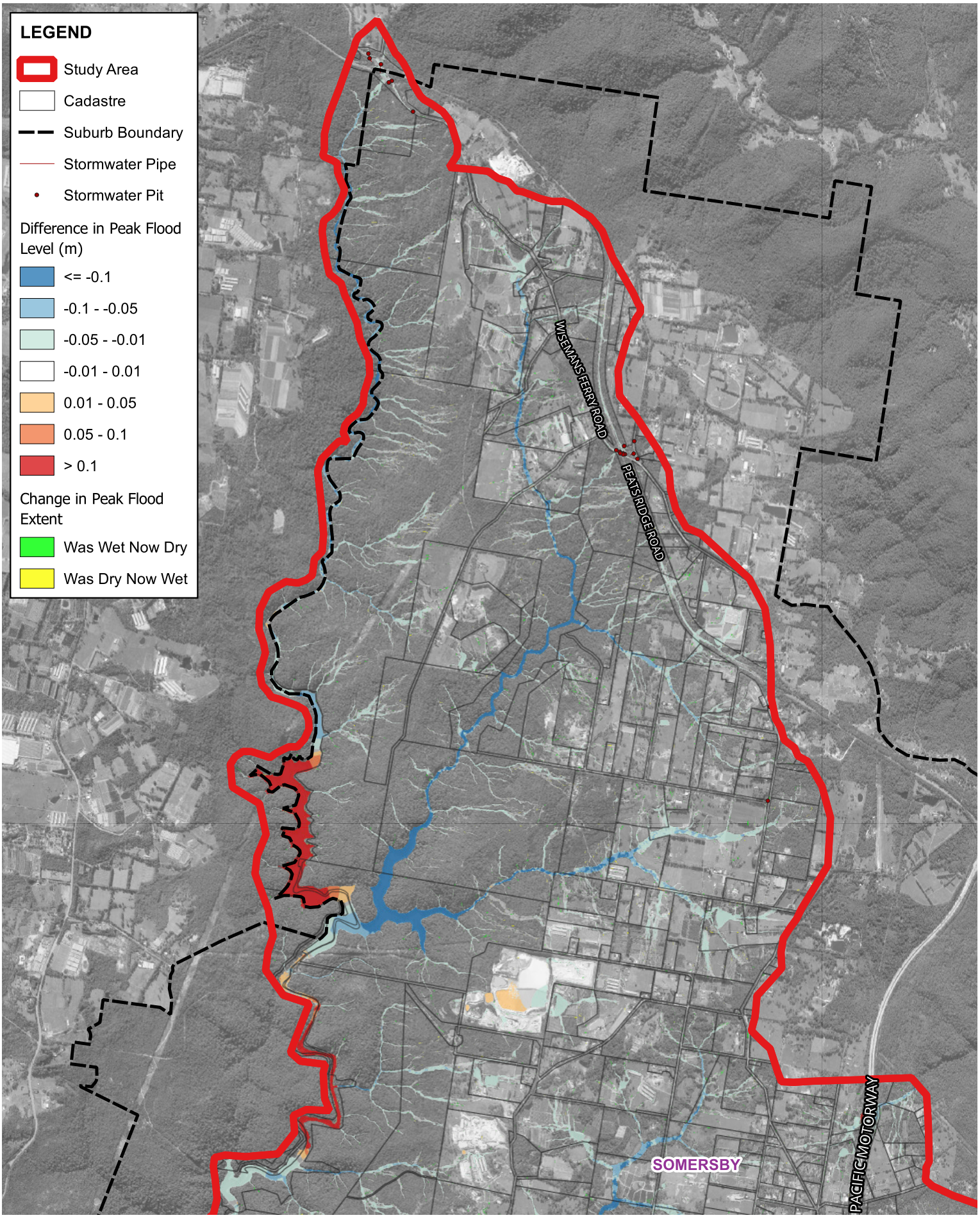


Title:

# Difference in Peak Flood Level - Northern Catchment 1 in 100 AEP -20% Mannings Minus Design

Figure: D-12

Rev: 0

Scale at A4 1:40000

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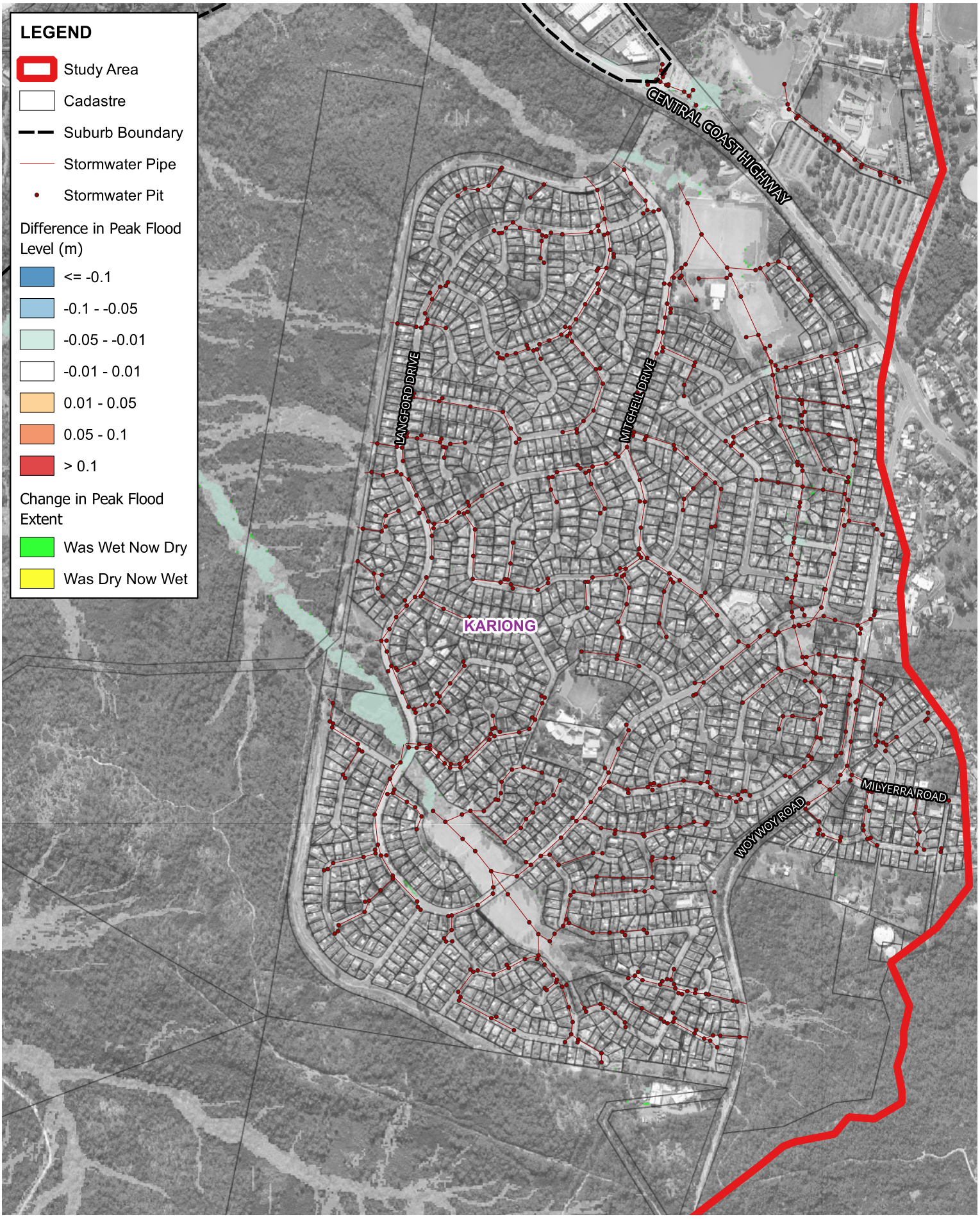


Title:

# Difference in Peak Flood Level - Kariong Town
# 1 in 100 AEP +20% IL Minus Design

Figure: D-13

Rev: 0

Scale at A4 1:10000

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Scale:

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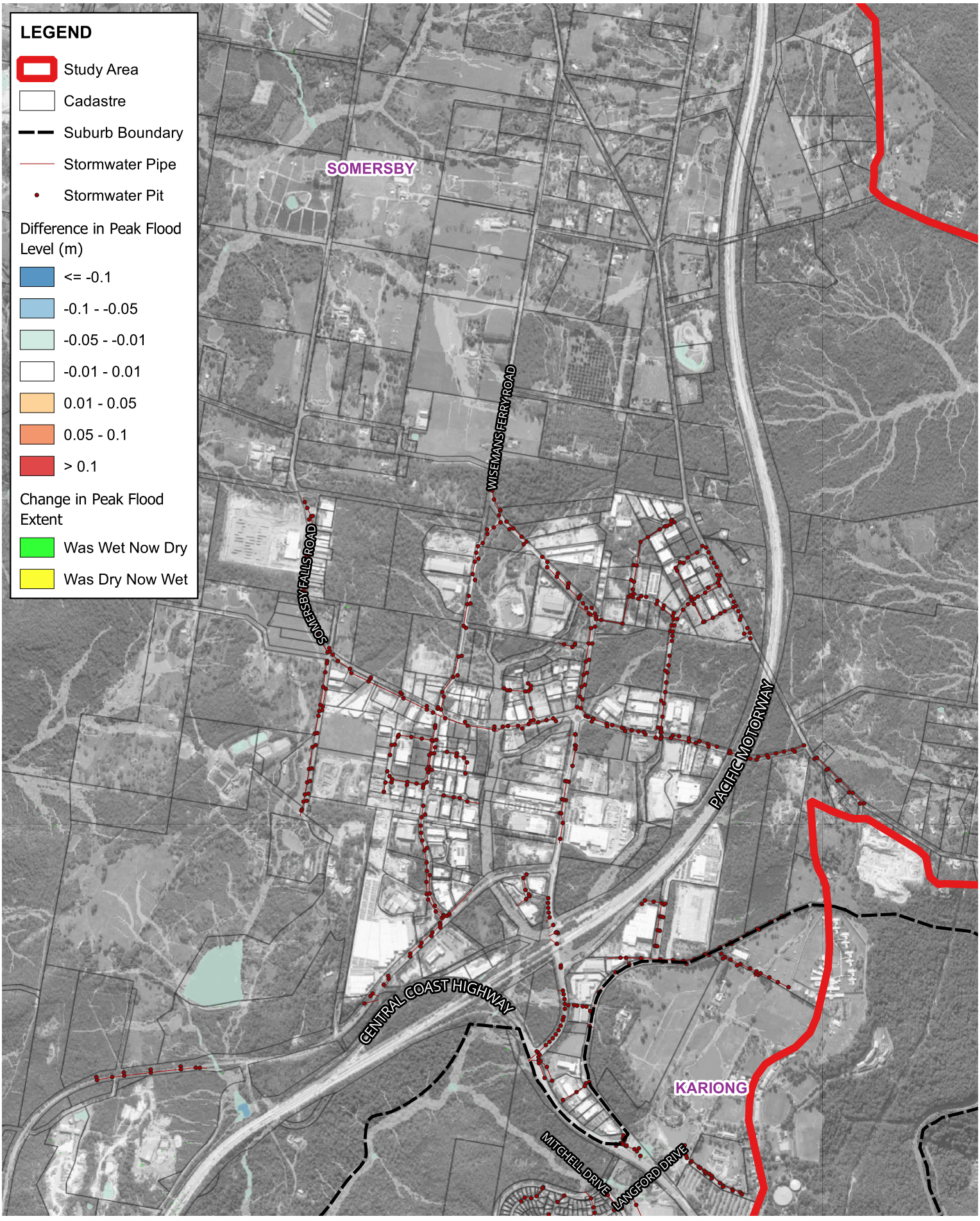
1:10,000

KBR




Title:

# Difference in Peak Flood Level - Somersby Industrial Area
# 1 in 100 AEP +20% IL Minus Design

Figure: D-14

Rev: 0

Scale at A4 1:20000

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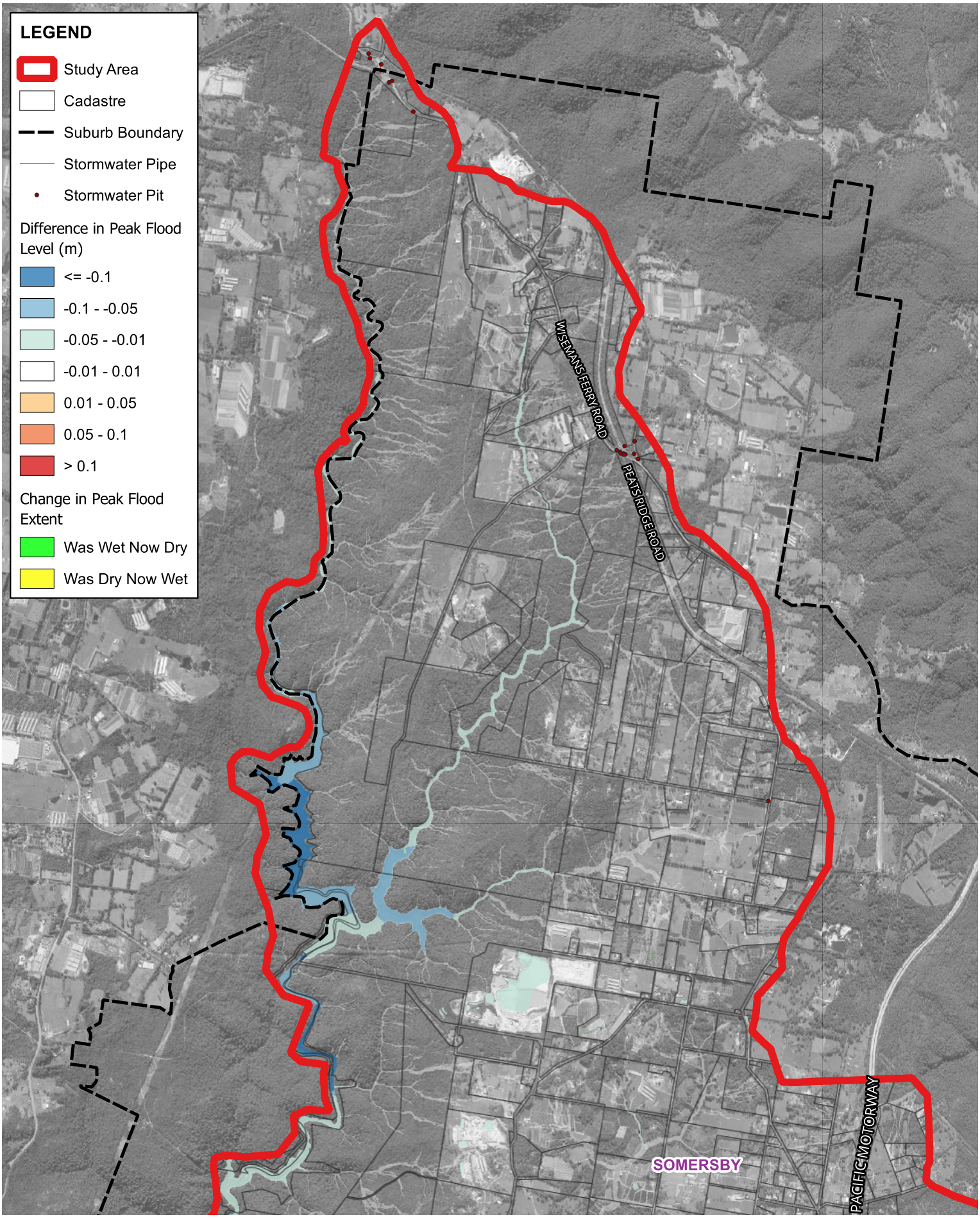
KBR




Title:

# Difference in Peak Flood Level - Northern Catchment
# 1 in 100 AEP +20% IL Minus Design

Figure: D-15

Rev: 0

Scale at A4 1:40000

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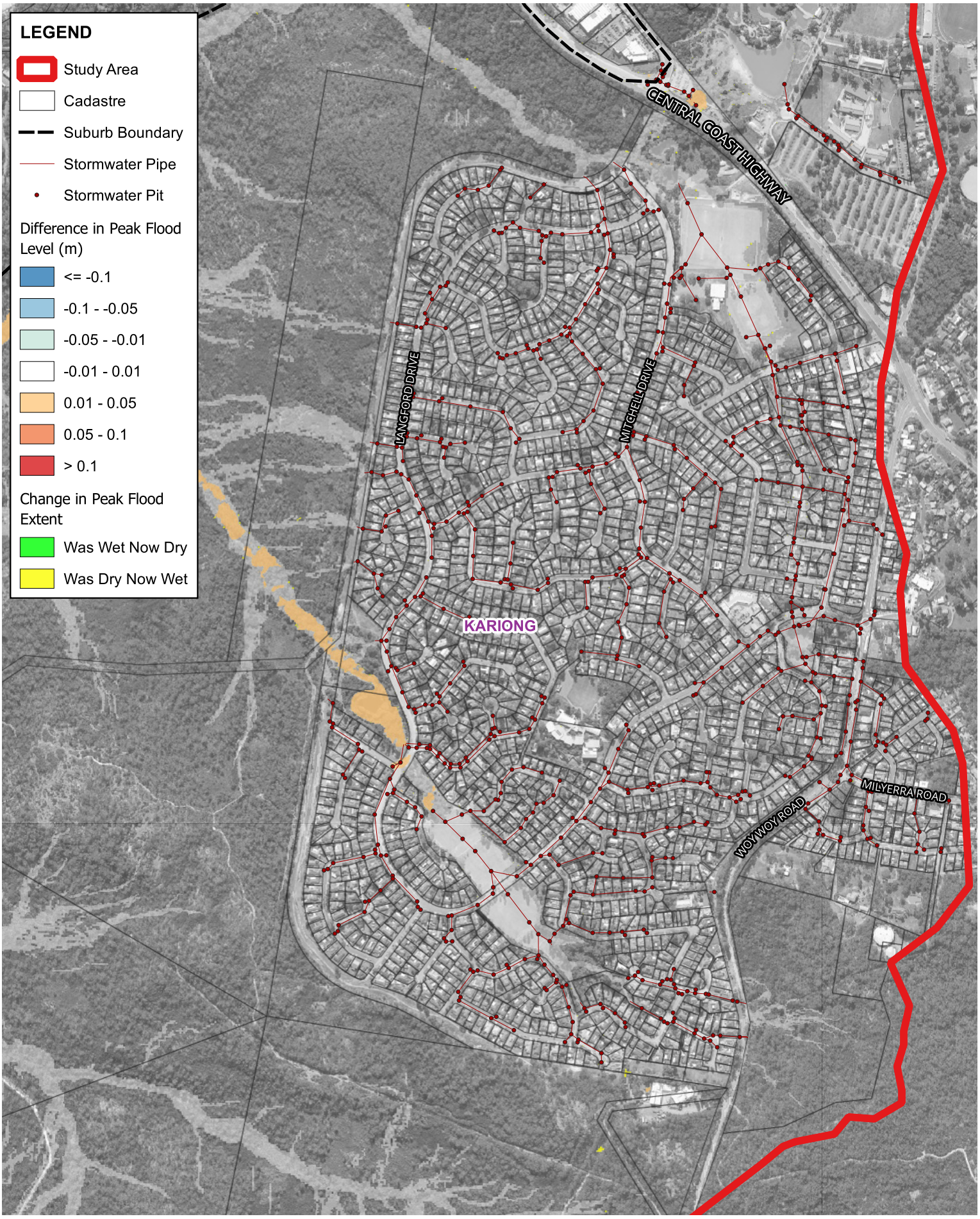
File: \\perfile001\data$\Water_Resources\Projects\SEW353_Kariong_Somersby_Flood_Study\G_GIS\Workspaces\Stage_Final_Draft\MS_Figures.qgz

Scale:

0 0.3 0.6 0.9 1.2 1.5 km

1:40,000

KBR




Title:

# Difference in Peak Flood Level - Kariong Town
# 1 in 100 AEP -20% IL Minus Design

Figure: D-16

Rev: 0

Scale at A4 1:10000

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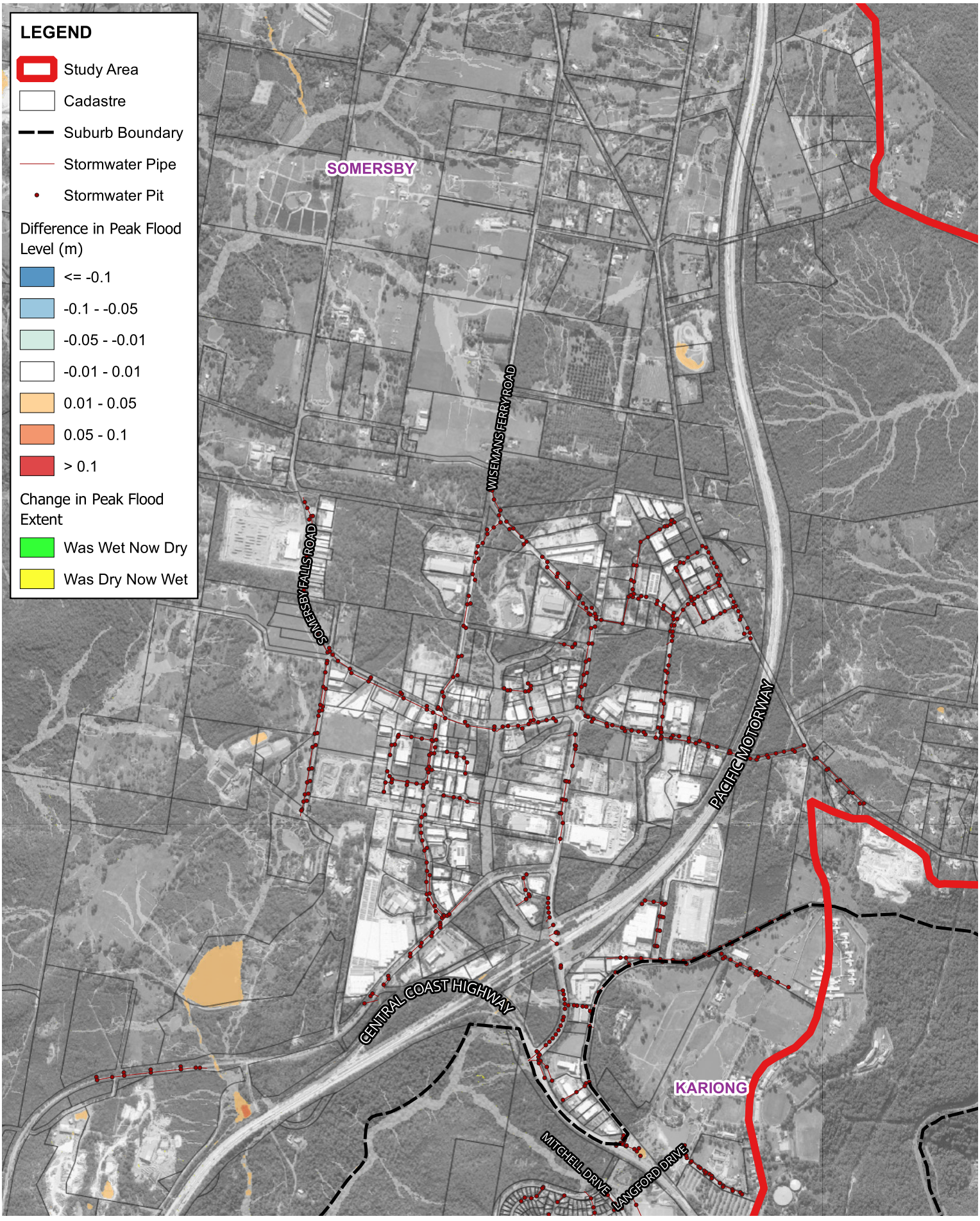
File: \\perfile001\data$\Water_Resources\Projects\SEW353_Kariong_Somersby_Flood_Study\G_GIS\Workspaces\Stage_Final_Draft\MS_Figures.qgz

Scale:

0 0.08 0.16 0.24 0.32 0.4 km

1:10,000

KBR




Title:

# Difference in Peak Flood Level - Somersby Industrial Area
# 1 in 100 AEP -20% IL Minus Design

Figure: D-17

Rev: 0

Scale at A4 1:20000

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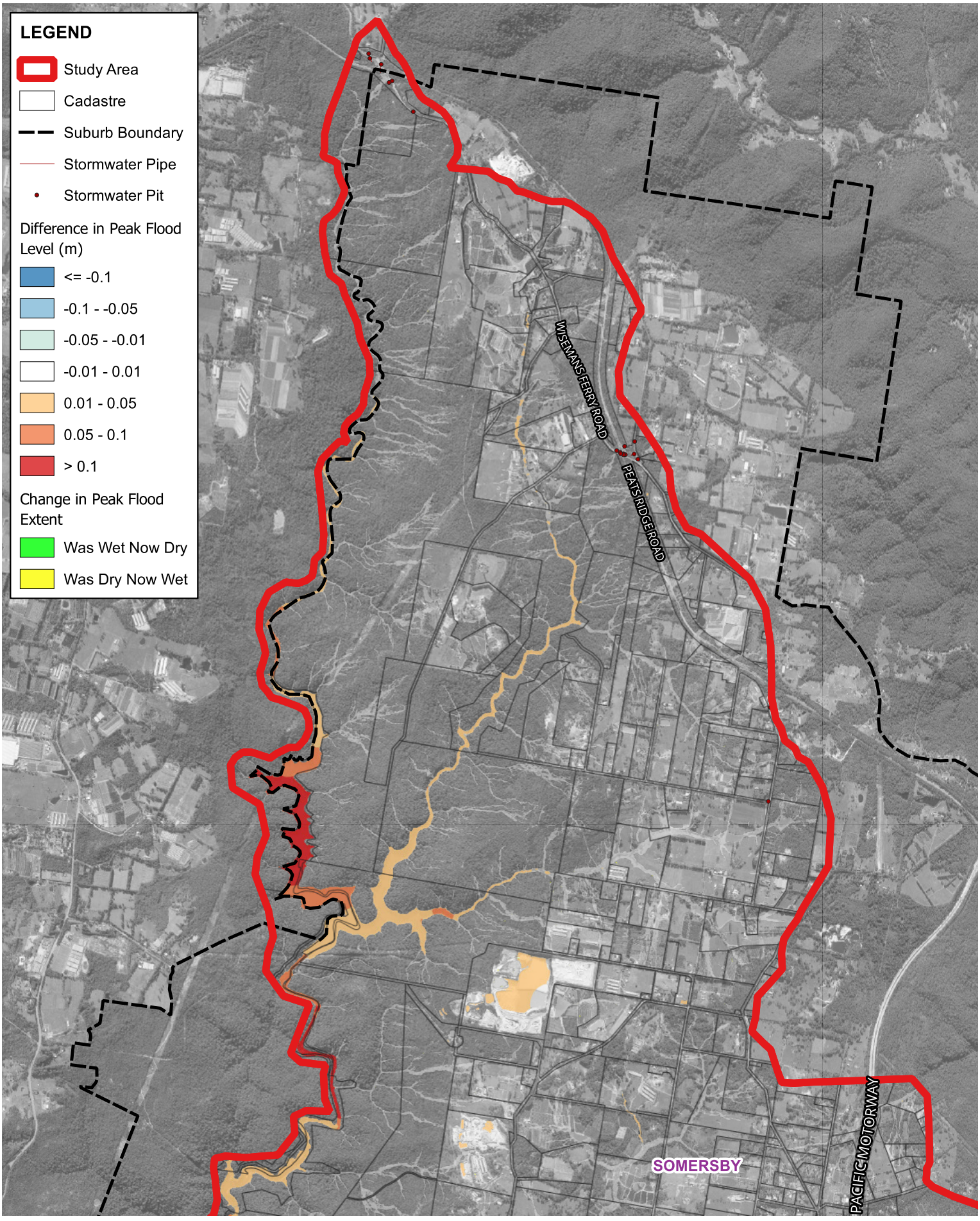
Scale:

0 0.1 0.2 0.3 0.4 0.5 km

1:20,000

KBR




Title:

# Difference in Peak Flood Level - Northern Catchment
# 1 in 100 AEP -20% IL Minus Design

Figure: D-18

Rev: 0

Scale at A4 1:40000

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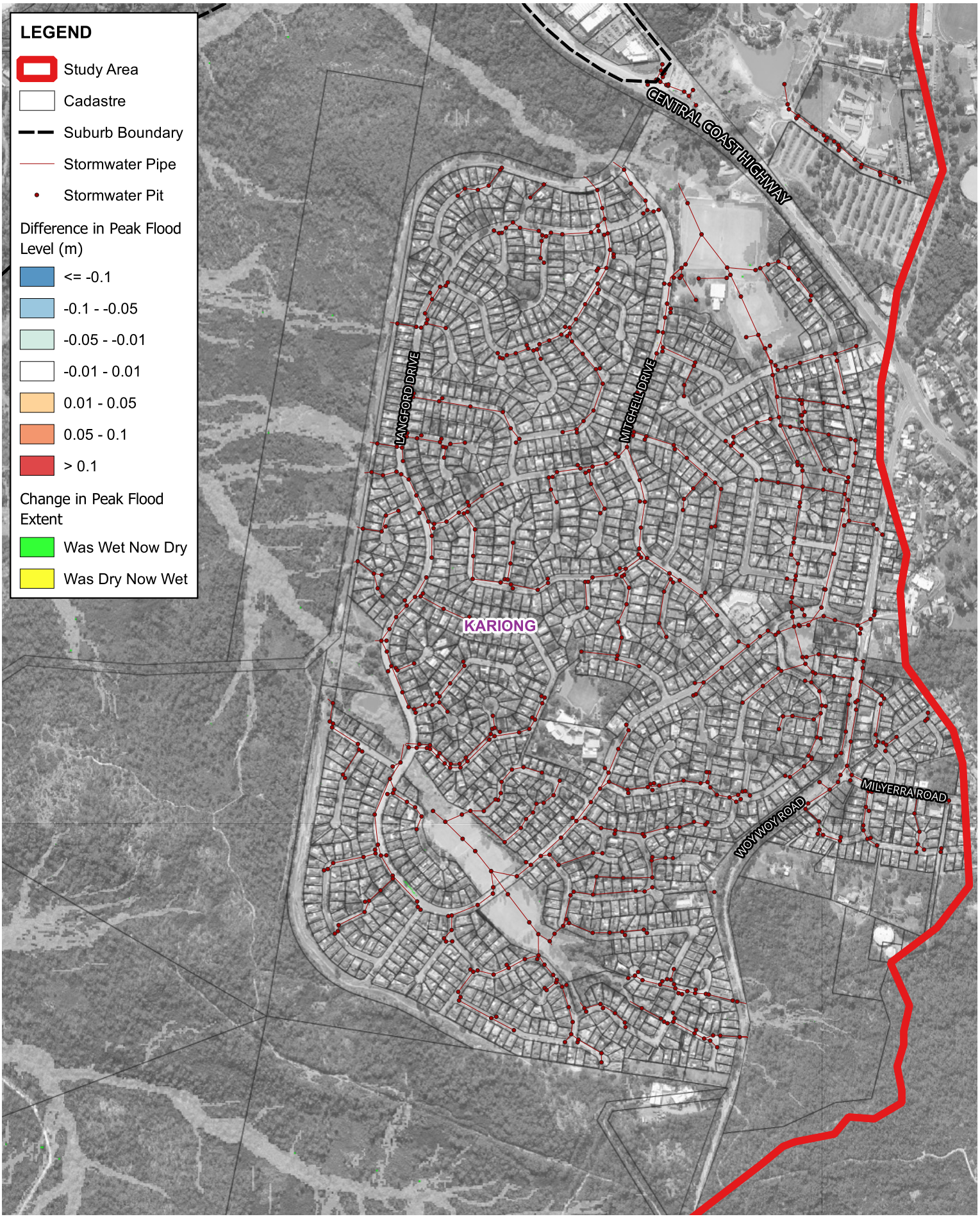
File: \\perfile001\data$\Water_Resources\Projects\SEW353_Kariong_Somersby_Flood_Study\G_GIS\Workspaces\Stage_Final_Draft\MS_Figures.qgz

Scale:

0 0.3 0.6 0.9 1.2 1.5 km

1:40,000

KBR




Title:

# Difference in Peak Flood Level - Kariong Town
# 1 in 100 AEP +20% CL Minus Design

Figure: D-19

Rev: 0

Scale at A4 1:10000

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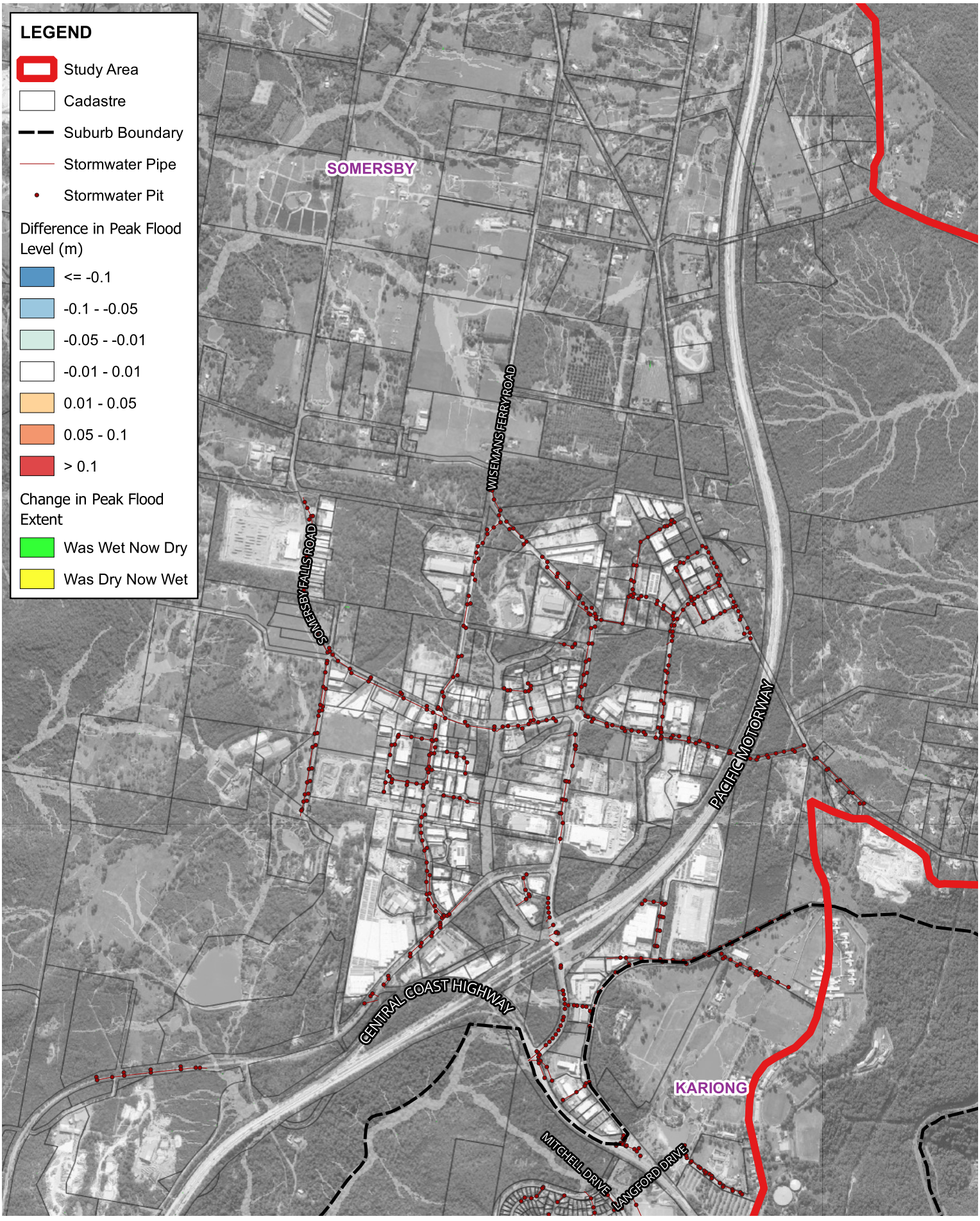
File: \\perfile001\data$\Water_Resources\Projects\SEW353_Kariong_Somersby_Flood_Study\G_GIS\Workspaces\Stage_Final_Draft\MS_Figures.qgz

Scale:

0 0.08 0.16 0.24 0.32 0.4 km

1:10,000




Title:

# Difference in Peak Flood Level - Somersby Industrial Area
# 1 in 100 AEP +20% CL Minus Design

Figure: D-20

Rev: 0

Scale at A4 1:20000
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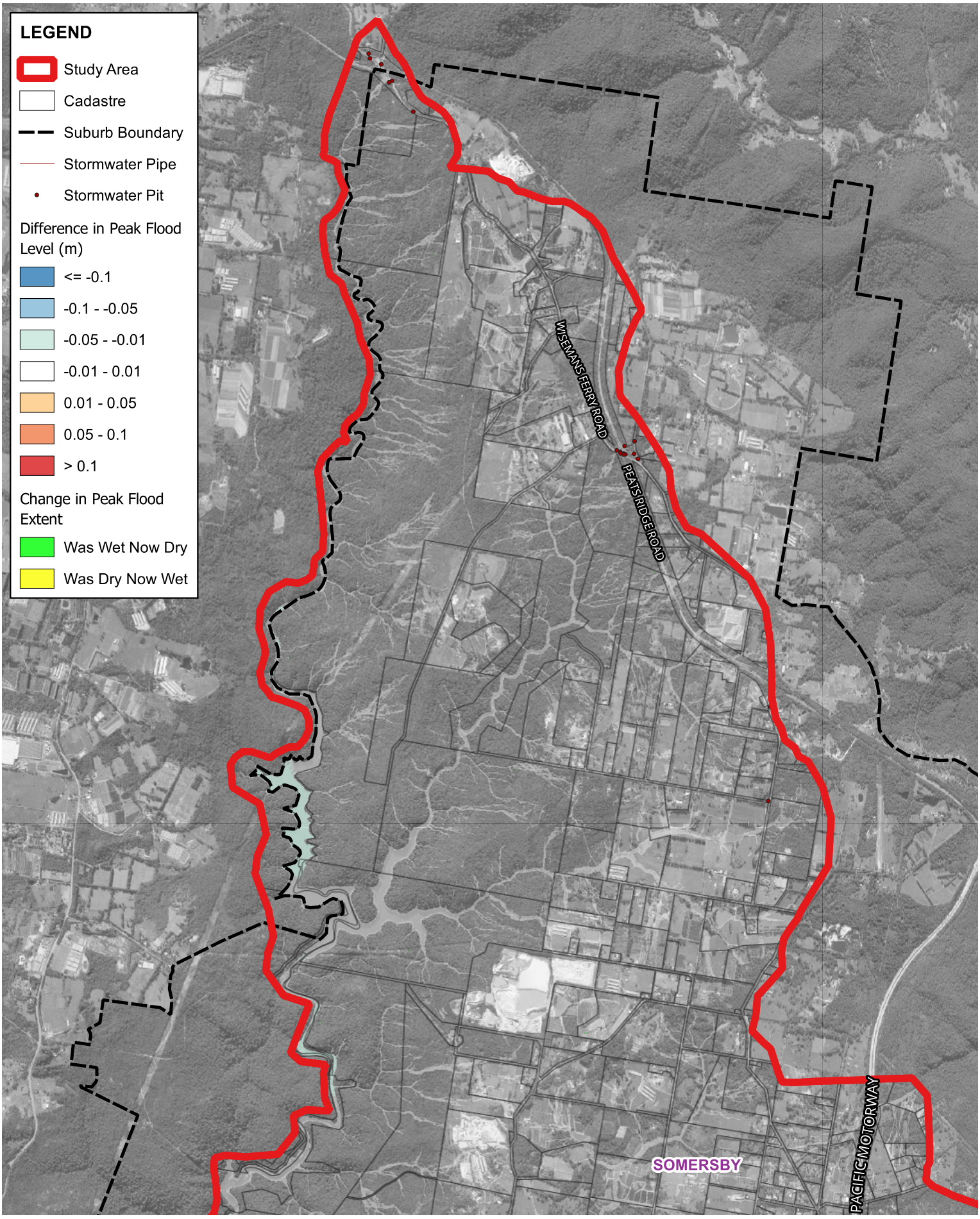
File: \\perfile001\data$\Water_Resources\Projects\SEW353_Kariong_Somersby_Flood_Study\G_GIS\Workspaces\Stage_Final_Draft\MS_Figures.qgz

Scale:

0 0.1 0.2 0.3 0.4 0.5 km

1:20,000

KBR




Title:

# Difference in Peak Flood Level - Northern Catchment
# 1 in 100 AEP +20% CL Minus Design

Figure: D-21

Rev: 0

Scale at A4 1:40000

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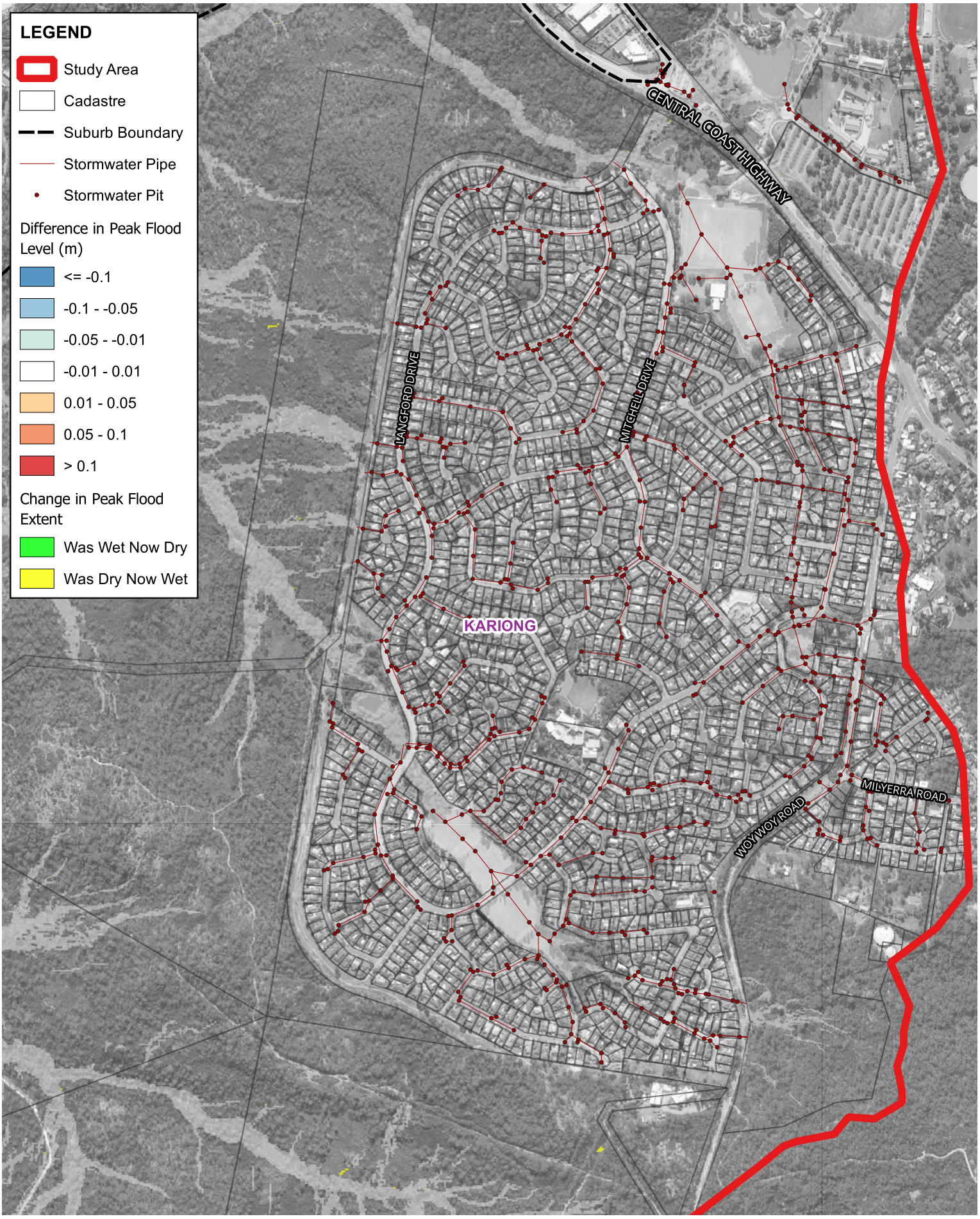
Scale:

0 0.3 0.6 0.9 1.2 1.5 km

1:40,000

KBR




Title:

# Difference in Peak Flood Level - Kariong Town
# 1 in 100 AEP -20% CL Minus Design

Figure: D-22

Rev: 0

Scale at A4 1:10000

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File: \\perfile001\data$\Water_Resources\Projects\SEW353_Kariong_Somersby_Flood_Study\G_GIS\Workspaces\Stage_Final_Draft\MS_Figures.qgz

Scale:

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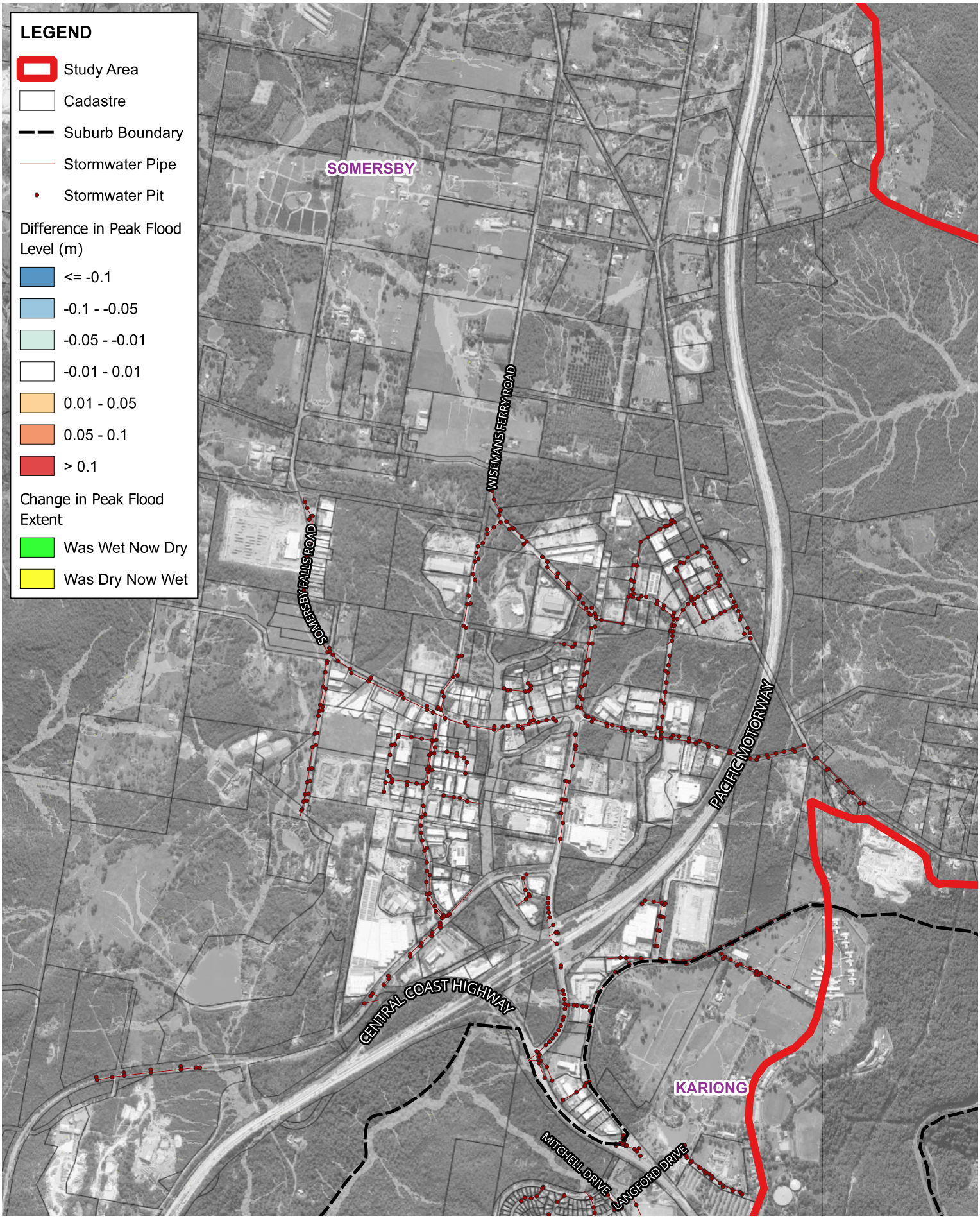
1:10,000

KBR




Title:

# Difference in Peak Flood Level - Somersby Industrial Area
# 1 in 100 AEP -20% CL Minus Design

Figure: D-23

Rev: 0

Scale at A4 1:20000
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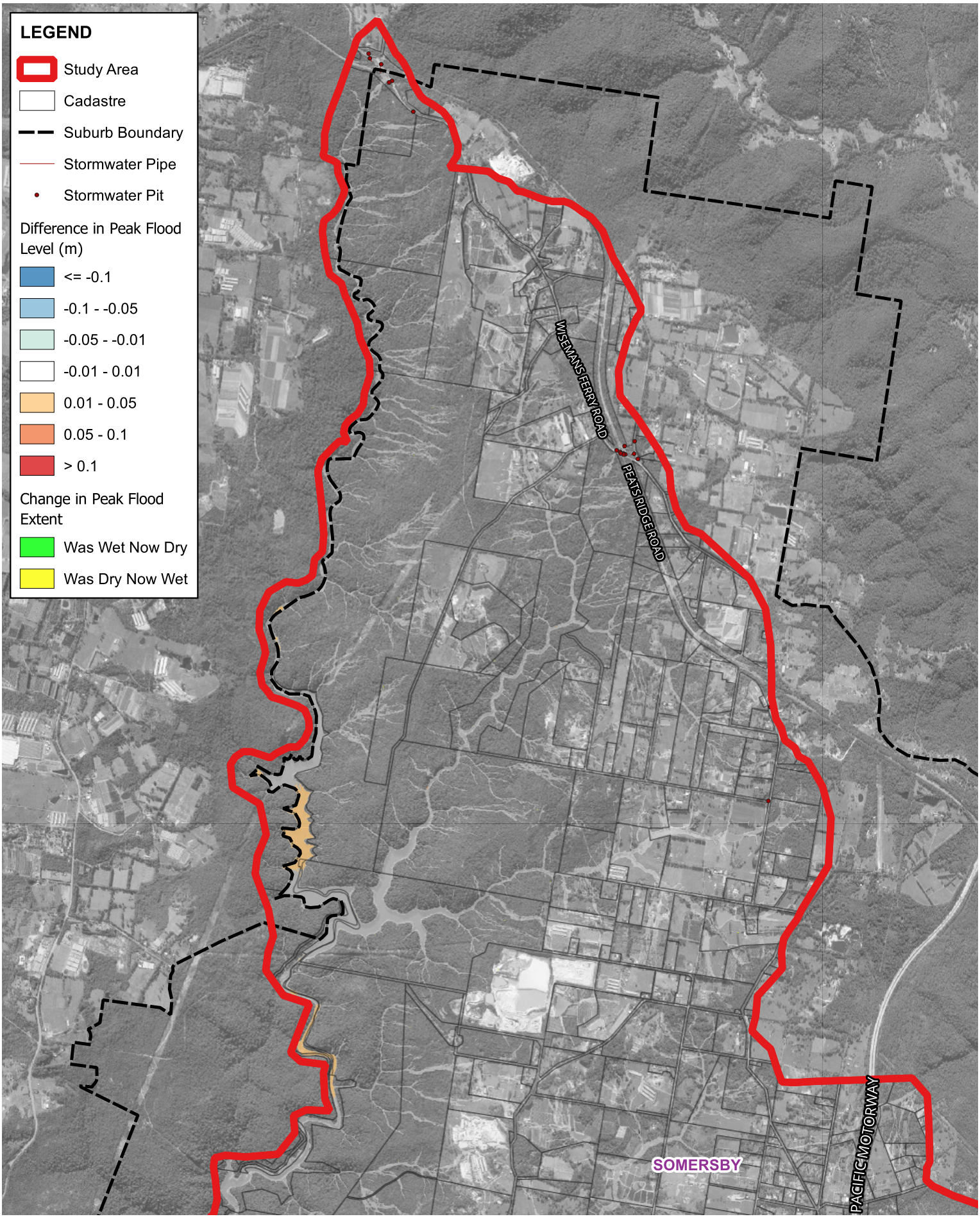
Scale:

0 0.1 0.2 0.3 0.4 0.5 km

1:20,000




Title:

# Difference in Peak Flood Level - Northern Catchment
# 1 in 100 AEP -20% CL Minus Design

Figure: D-24

Rev: 0

Scale at A4 1:40000

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Scale:

0 0.3 0.6 0.9 1.2 1.5 km

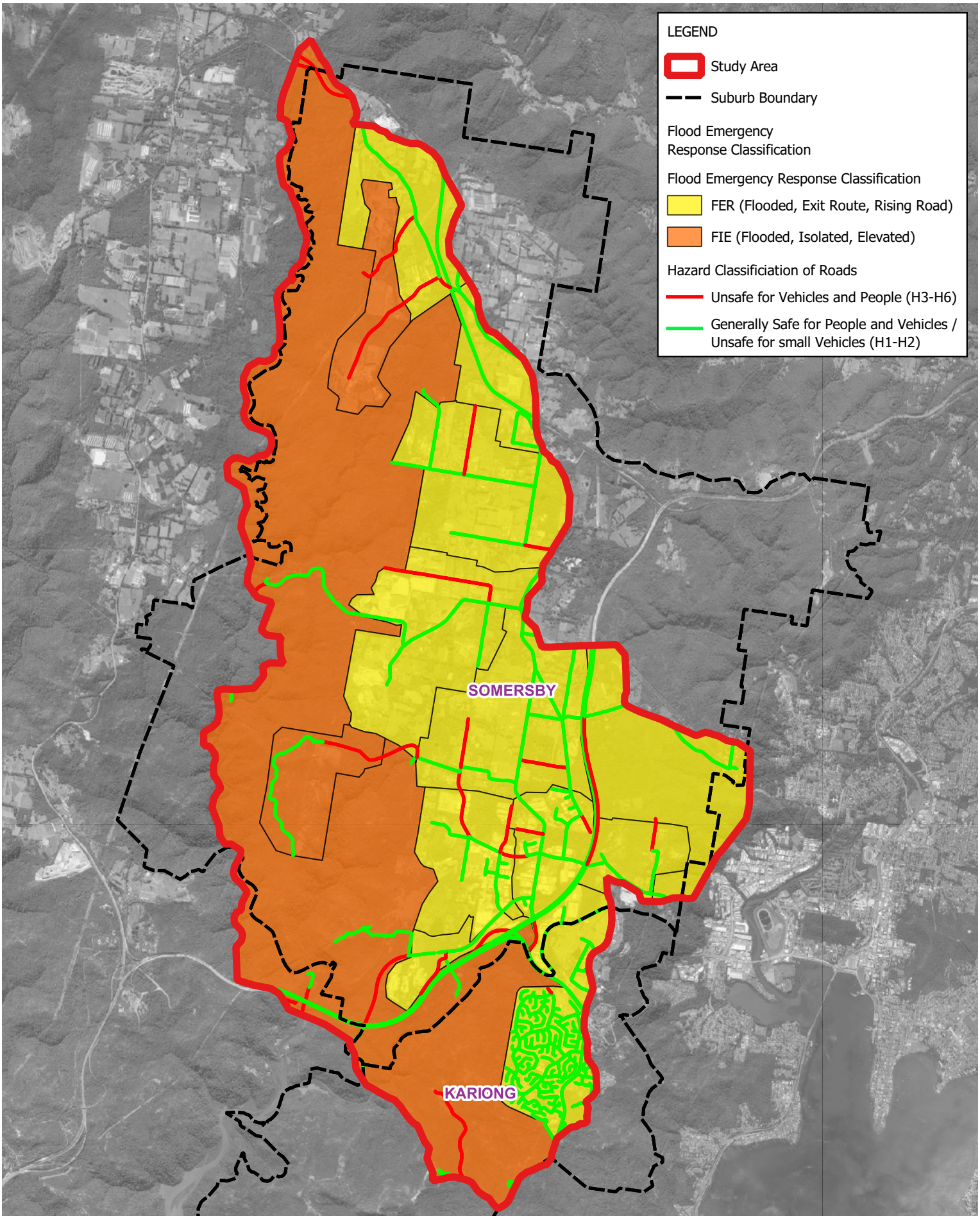
1:40,000

KBR

# Appendix E: FERC Figures

# List of Figures

Figure E-1: Flood Emergency Response Classification – 5% AEP Event
Figure E-2: Flood Emergency Response Classification – 1 in 100 AEP Event
Figure E-3: Flood Emergency Response Classification – PMF Event




Title:

# Flood Emergency Response Classification
# 5% AEP Event

Figure: E-1

Rev: 0

Scale at A4 1:70000

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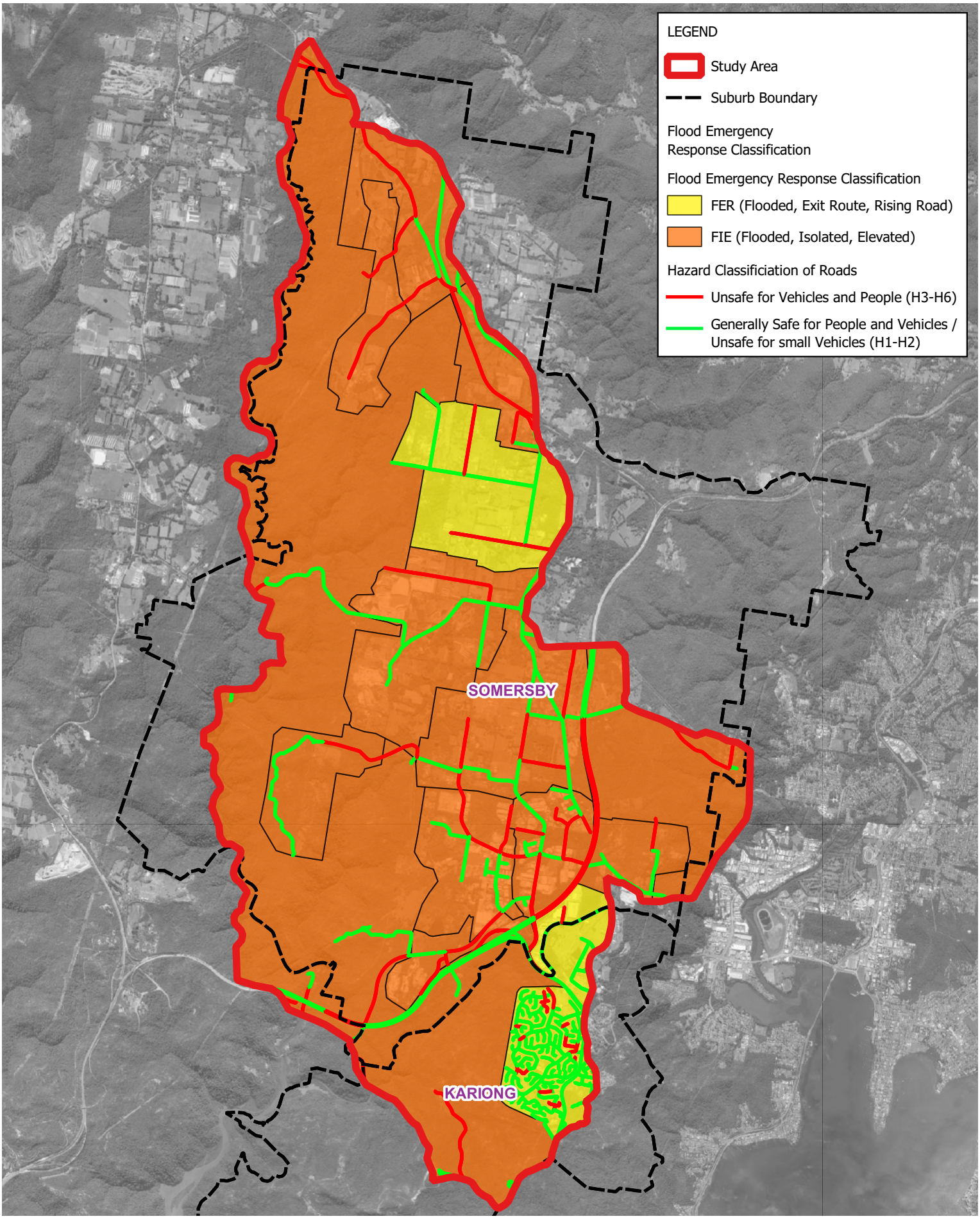
KBR




Title:

# Flood Emergency Response Classification
# 1 in 100 AEP Event

Figure: E-2

Rev: 0

Scale at A4 1:70000

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Scale:

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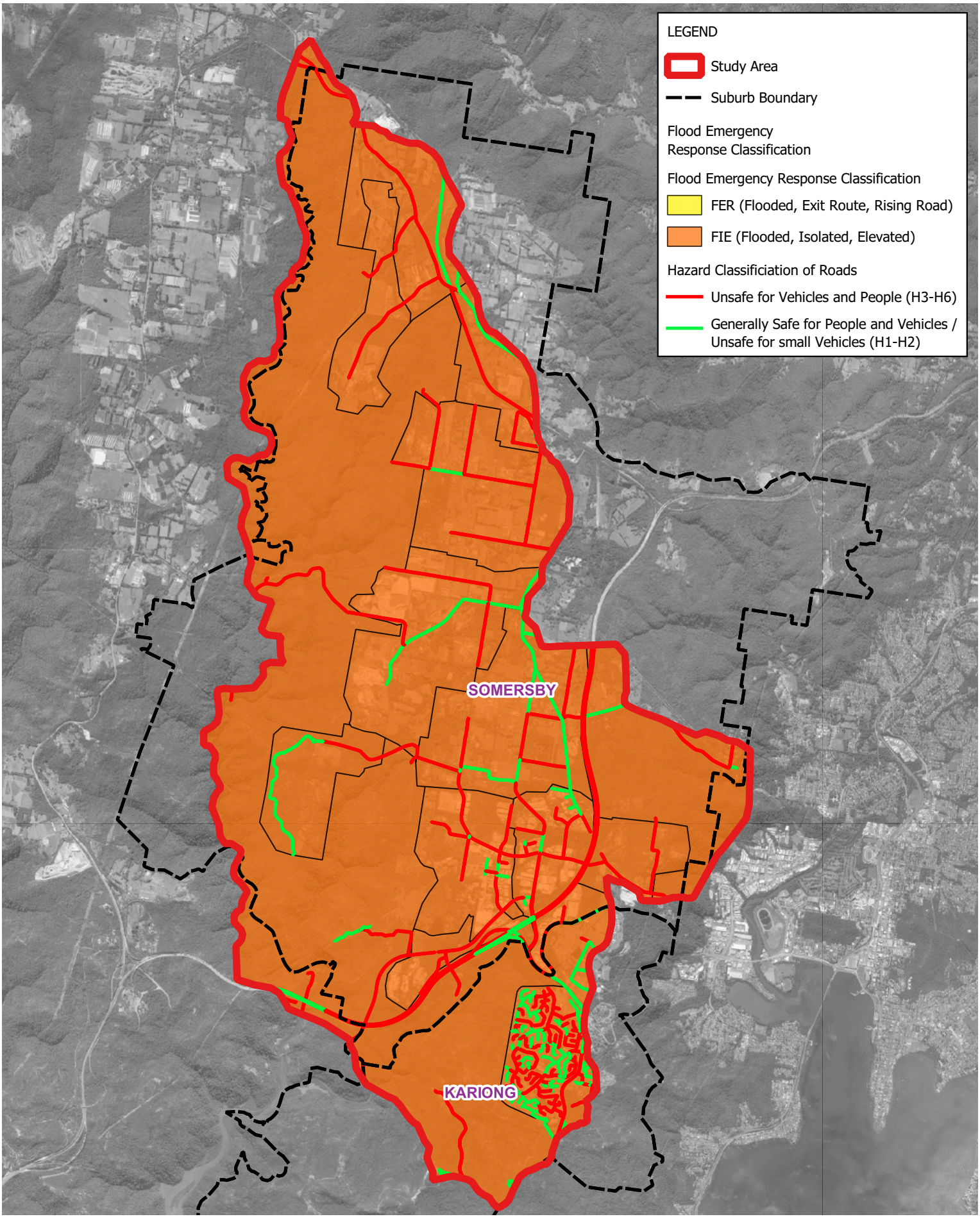


Title:

# Flood Emergency Response Classification PMF Event

Figure: E-3

Rev: 0

Scale at A4 1:70000

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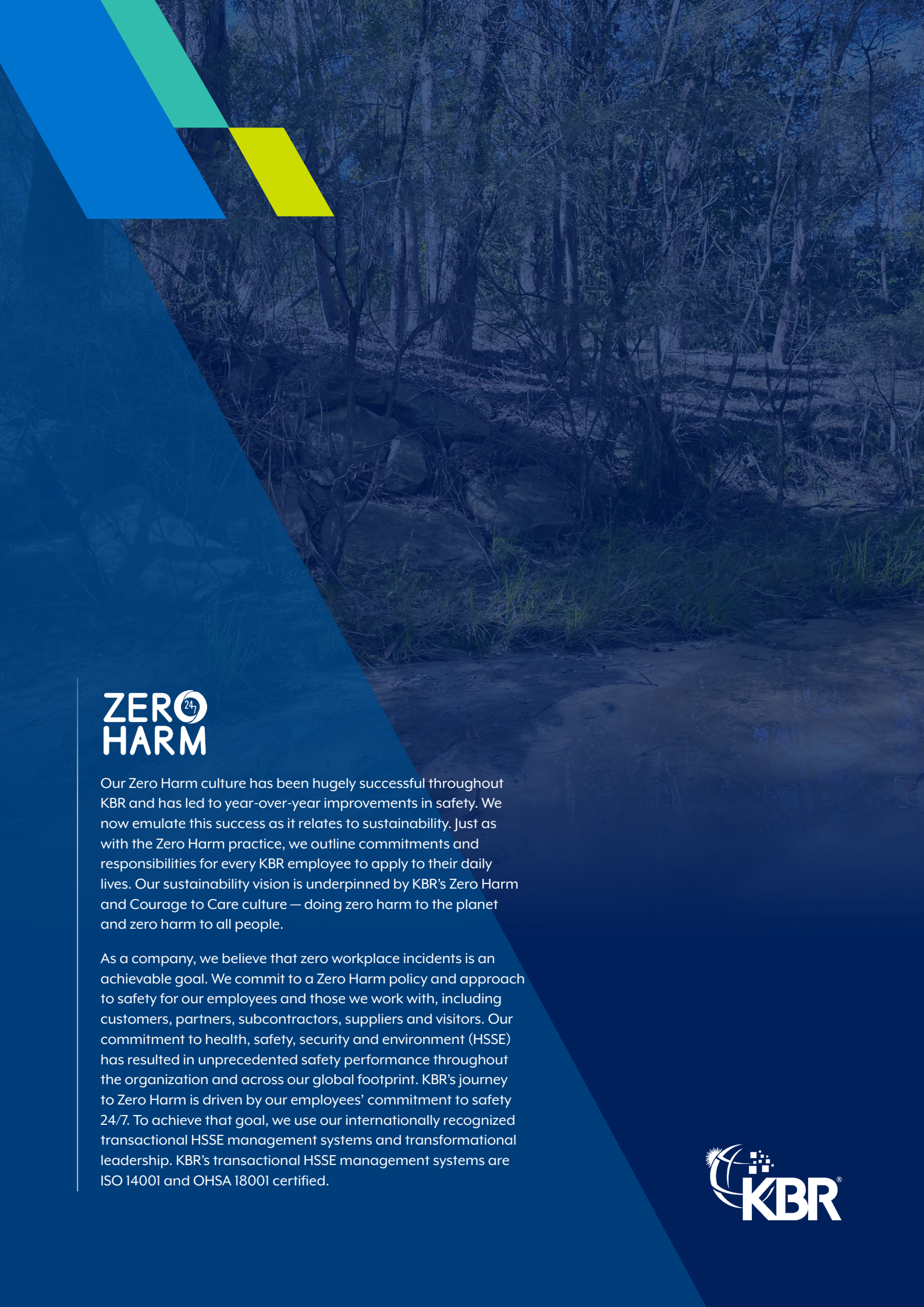

# ZERO HARM

Our Zero Harm culture has been hugely successful throughout KBR and has led to year-over-year improvements in safety. We now emulate this success as it relates to sustainability. Just as with the Zero Harm practice, we outline commitments and responsibilities for every KBR employee to apply to their daily lives. Our sustainability vision is underpinned by KBR's Zero Harm and Courage to Care culture — doing zero harm to the planet and zero harm to all people.

As a company, we believe that zero workplace incidents is an achievable goal. We commit to a Zero Harm policy and approach to safety for our employees and those we work with, including customers, partners, subcontractors, suppliers and visitors. Our commitment to health, safety, security and environment (HSSE) has resulted in unprecedented safety performance throughout the organization and across our global footprint. KBR's journey to Zero Harm is driven by our employees' commitment to safety 24/7. To achieve that goal, we use our internationally recognized transactional HSSE management systems and transformational leadership. KBR's transactional HSSE management systems are ISO 14001 and OHSA 18001 certified.

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