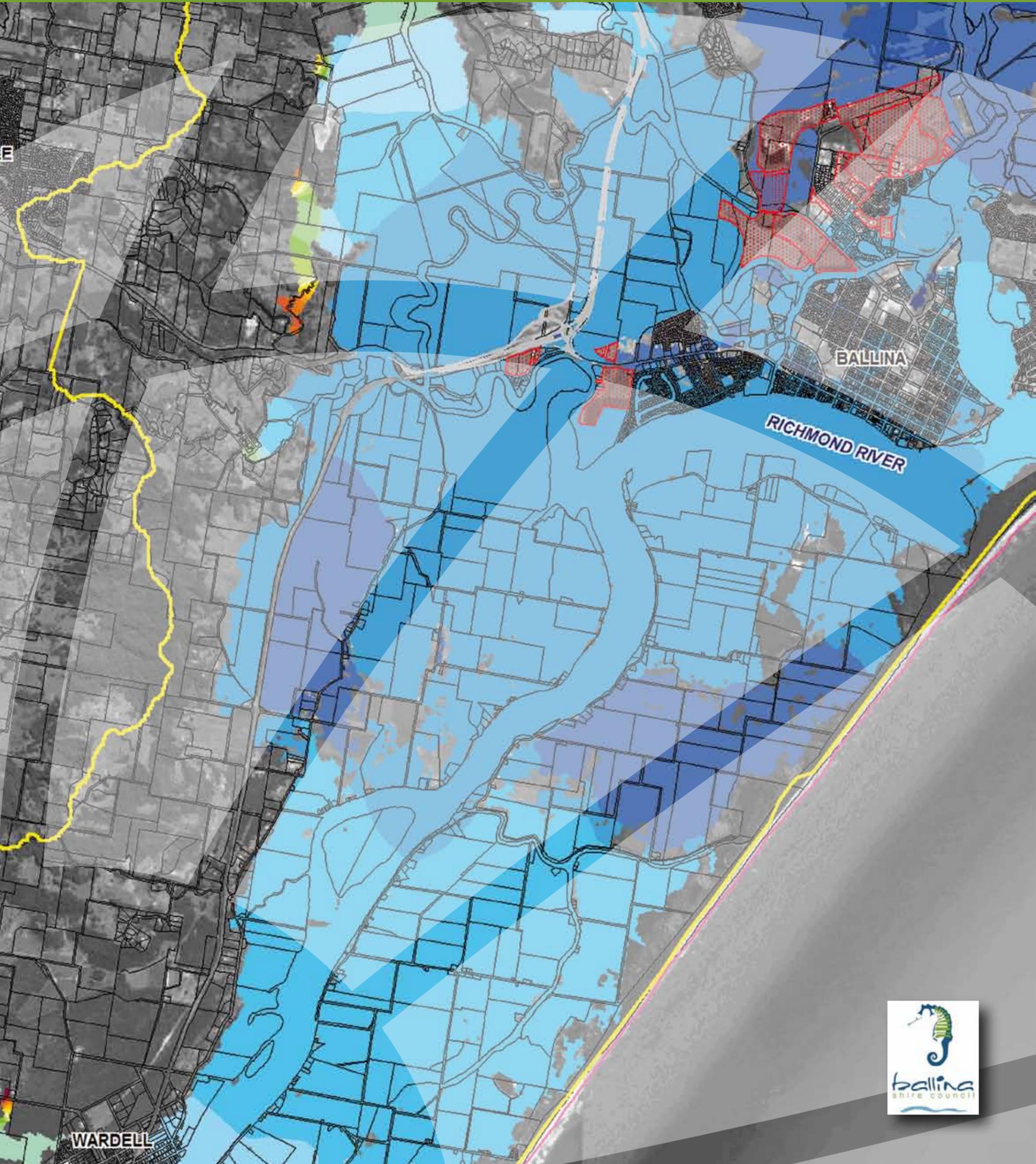


BALLINA FLOODPLAIN RISK MANAGEMENT STUDY

Exhibition Version - Volume 2 January 2012-01-12



**Ballina Floodplain Risk
Management Study
Volume 2: Drawing Addendum
Exhibition Version
January 2012**

Prepared For: Ballina Shire Council

Prepared By: BMT WBM Pty Ltd (Member of the BMT group of companies)
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	Client : Ballina Shire Council Client Contact: Paul Busmanis Client Reference

Title :	Ballina Floodplain Risk Management Study, Volume 2: Drawing Addendum, Exhibition Version
Author :	Richard Sharpe, Janice Booth
Synopsis :	<p>Volume 2: This report contains flood maps created as part of the study.</p> <p>Volume 1: (separate report): This report outlines the existing flood problem in the Ballina Shire Local Government Area and discusses possible and recommended floodplain management options.</p>

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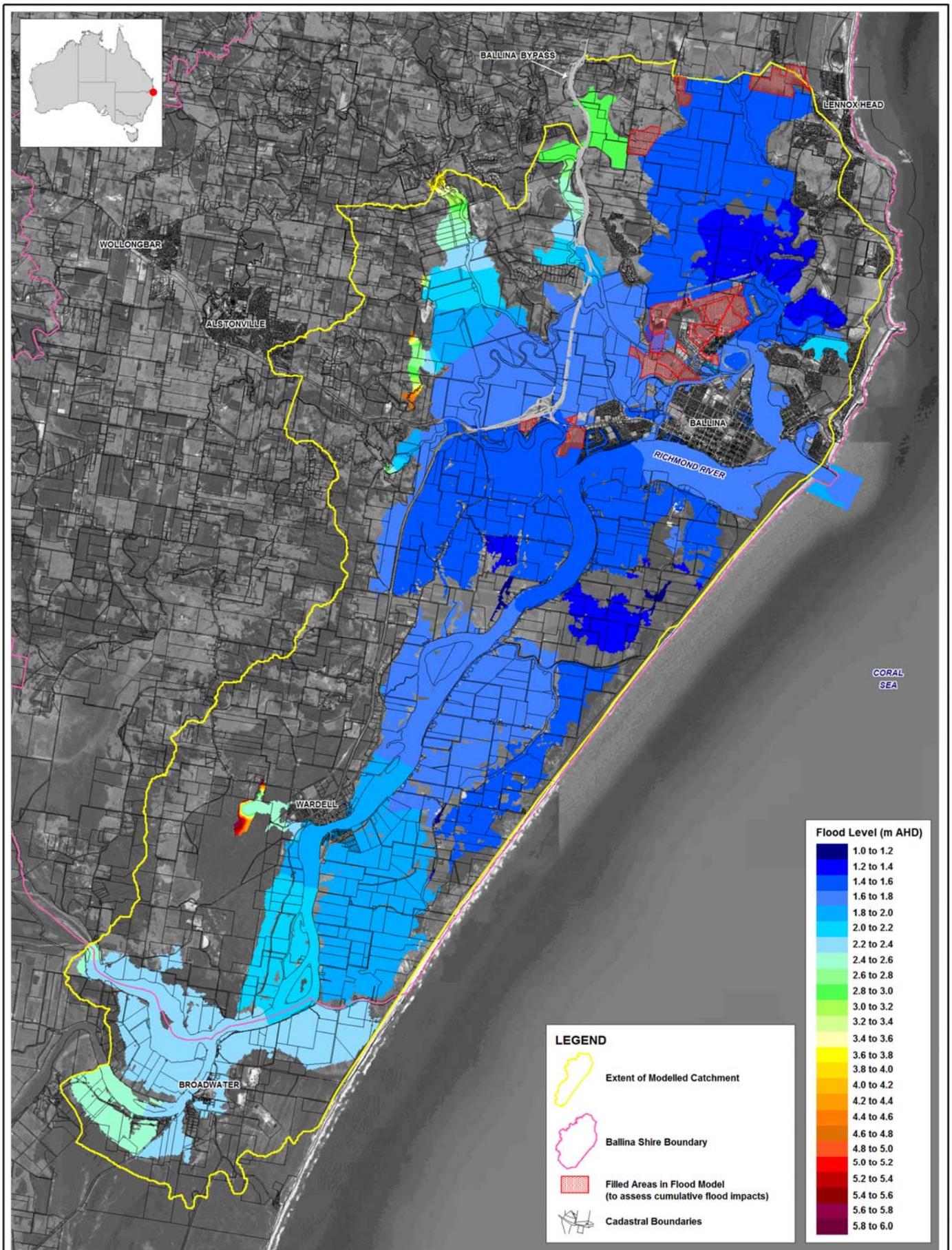
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State Emergency Service	PDF	PDF		
Bewsher Consulting	PDF	PDF		
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CONTENTS

LIST OF FIGURES

Drawing No. B17316-FRMS-L-003	20 Year ARI Flood Level for Current Climate
Drawing No. B17316-FRMS-L-004	50 Year ARI Flood Level for Current Climate
Drawing No. B17316-FRMS-L-005	100 Year ARI Flood Level for Current Climate
Drawing No. B17316-FRMS-D-005	100 Year ARI Flood Depth for Current Climate
Drawing No. B17316-FRMS-V-005	100 Year ARI Flow Velocity for Current Climate
Drawing No. B17316-FRMS-DV-005	100 Year ARI Depth x Velocity for Current Climate
Drawing No. B17316-FRMS-L-007	PMF Flood Level for Current Climate
Drawing No. B17316-FRMS-L-103	20 Year ARI Flood Level for 2050 Climate Change Horizon
Drawing No. B17316-FRMS-L-104	50 Year ARI Flood Level for 2050 Climate Change Horizon
Drawing No. B17316-FRMS-L-105	100 Year ARI Flood Level for 2050 Climate Change Horizon
Drawing No. B17316-FRMS-D-105	100 Year ARI Flood Depth for 2050 Climate Change Horizon
Drawing No. B17316-FRMS-V-105	100 Year ARI Flow Velocity for 2050 Climate Change Horizon
Drawing No. B17316-FRMS-DV-105	100 Year ARI Depth x Velocity for 2050 Climate Change Horizon
Drawing No. B17316-FRMS-L-107	PMF Flood Level for 2050 Climate Change Horizon
Drawing No. B17316-FRMS-L-203	20 Year ARI Flood Level for 2100 Climate Change Horizon
Drawing No. B17316-FRMS-L-204	50 Year ARI Flood Level for 2100 Climate Change Horizon
Drawing No. B17316-FRMS-L-205	100 Year ARI Flood Level for 2100 Climate Change Horizon
Drawing No. B17316-FRMS-D-205	100 Year ARI Flood Depth for 2100 Climate Change Horizon
Drawing No. B17316-FRMS-V-205	100 Year ARI Flow Velocity for 2100 Climate Change Horizon
Drawing No. B17316-FRMS-DV-205	100 Year ARI Depth x Velocity for 2100 Climate Change Horizon
Drawing No. B17316-FRMS-L-207	PMF Flood Level for 2100 Climate Change Horizon

Drawing No. B17316-FRMS-L-003 20 Year ARI Flood Level for Current Climate



Title:
20 Year ARI Flood Level for Current Climate

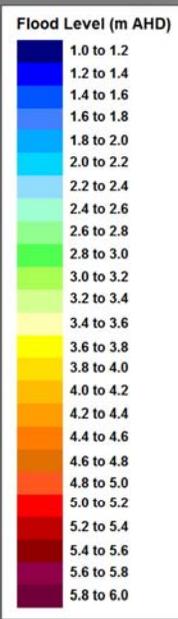
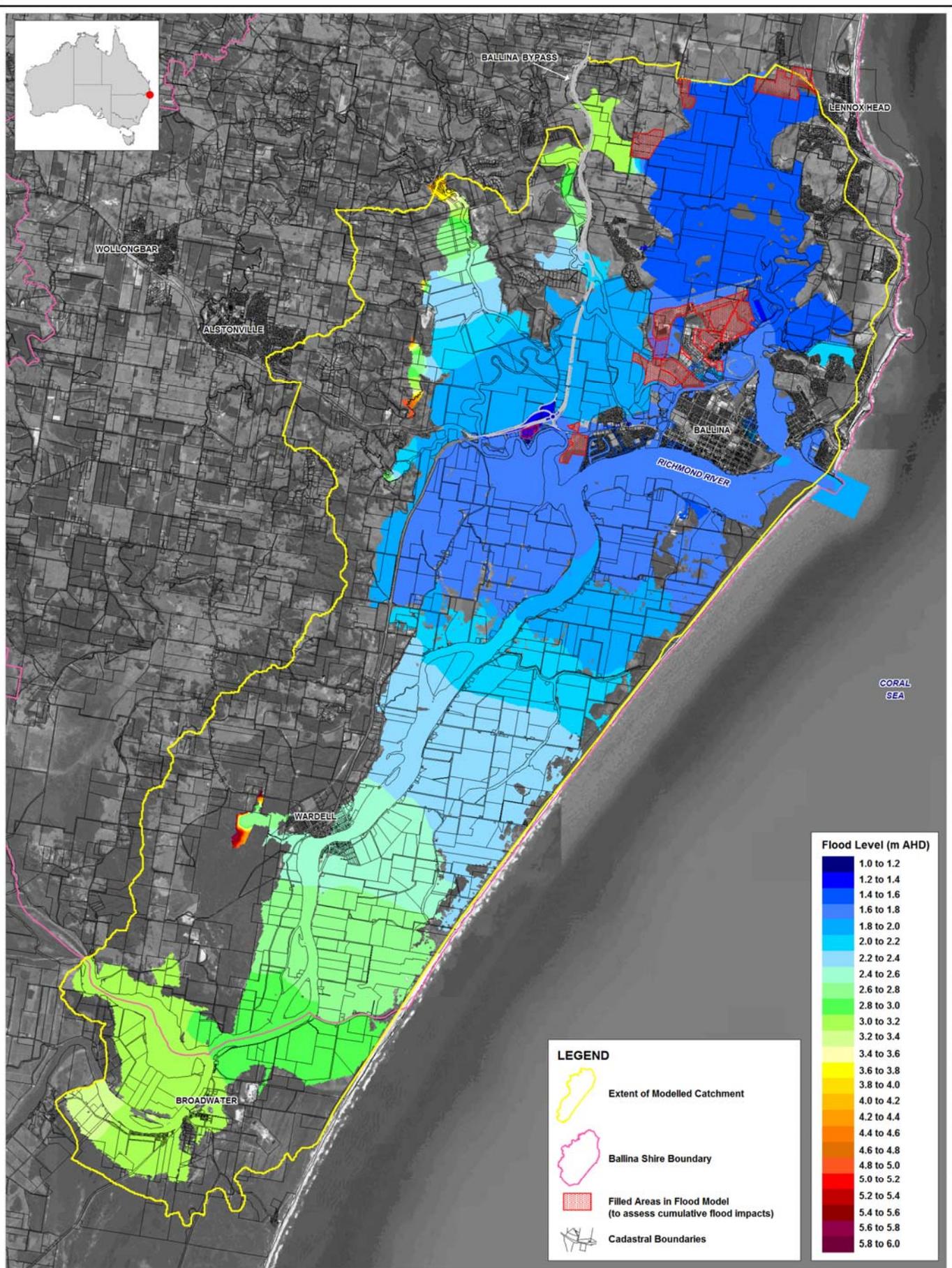
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Drawing No. B17316-FRMS-L-004 50 Year ARI Flood Level for Current Climate



LEGEND

-  Extent of Modelled Catchment
-  Ballina Shire Boundary
-  Filled Areas in Flood Model (to assess cumulative flood impacts)
-  Cadastral Boundaries

Title: **50 Year ARI Flood Level for Current Climate**

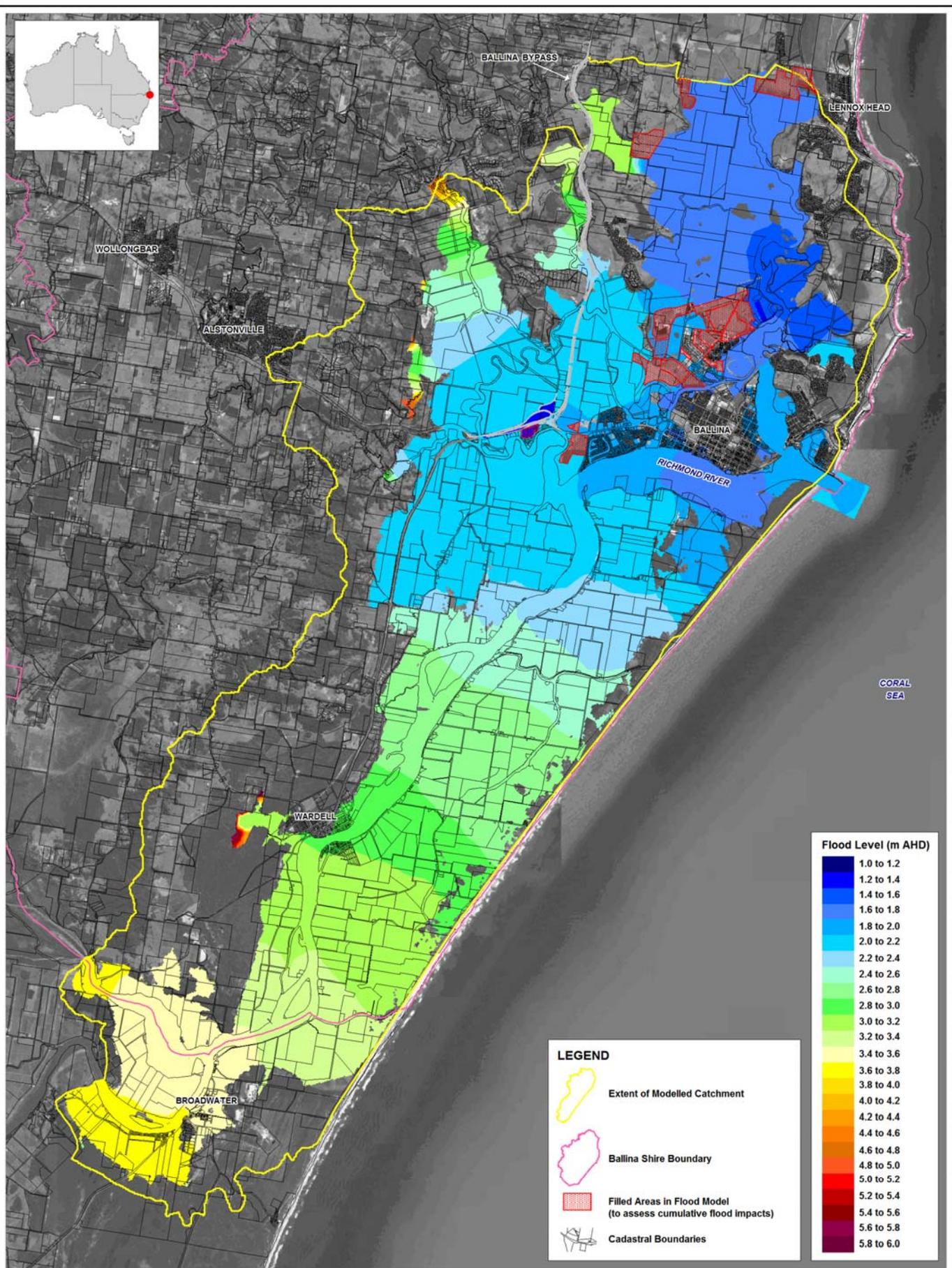
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Drawing No. B17316-FRMS-L-005 100 Year ARI Flood Level for Current Climate



LEGEND

-  Extent of Modelled Catchment
-  Ballina Shire Boundary
-  Filled Areas in Flood Model (to assess cumulative flood impacts)
-  Cadastral Boundaries

Title: **100 Year ARI Flood Level for Current Climate**

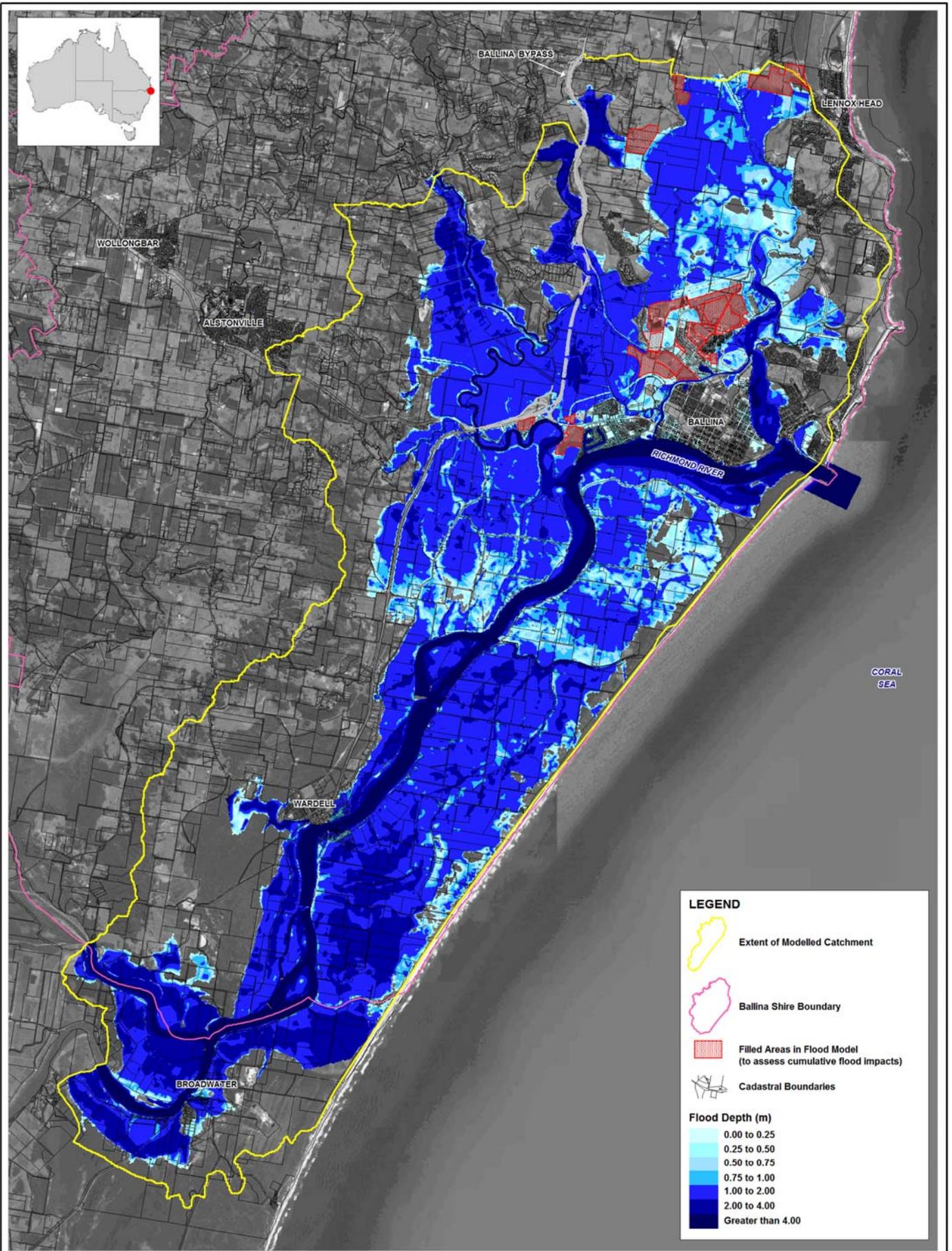
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Drawing No. B17316-FRMS-D-005 100 Year ARI Flood Depth for Current Climate



Title: **100 Year ARI Flood Depth for Current Climate**

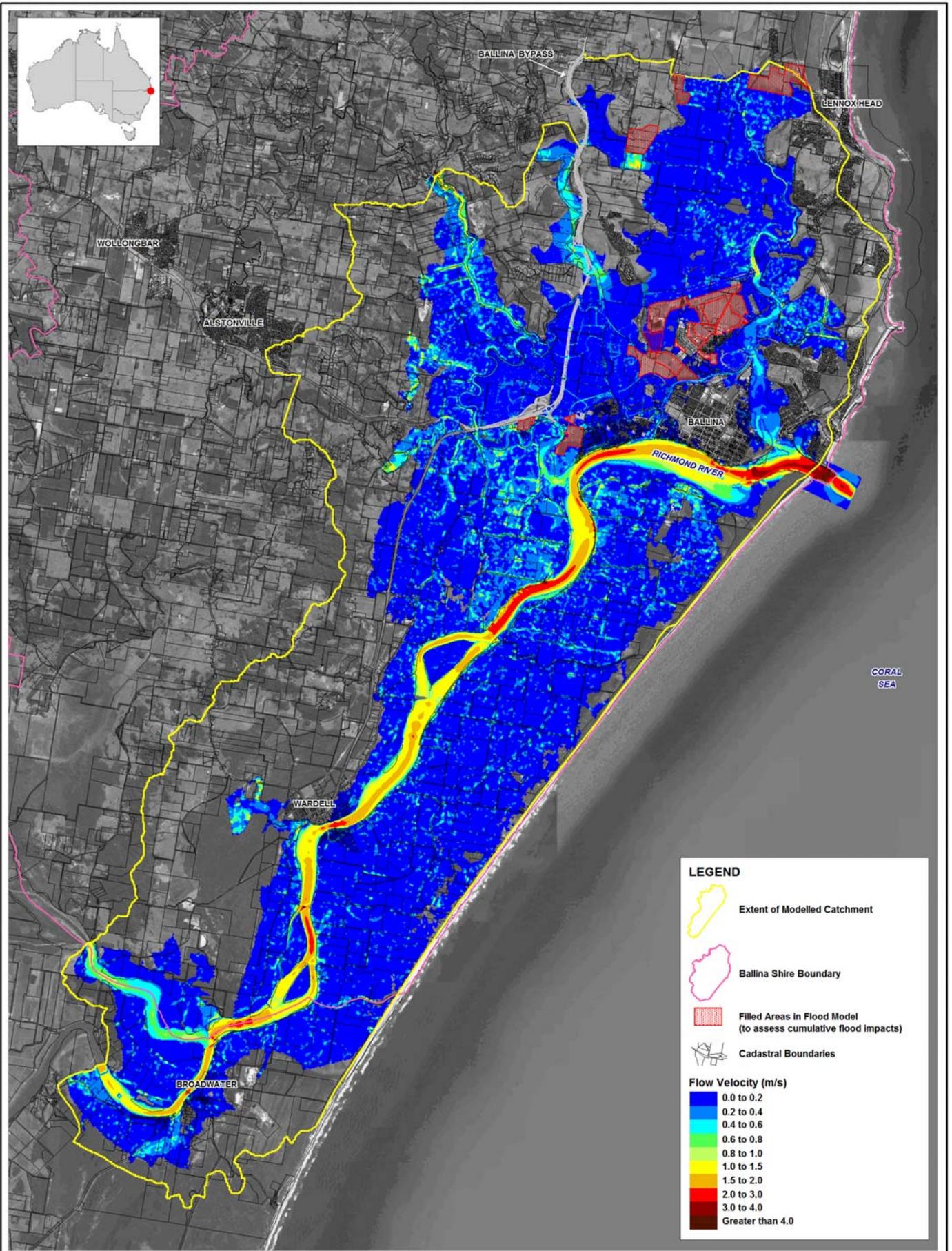
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Drawing No. B17316-FRMS-V-005 100 Year ARI Flow Velocity for Current Climate



Title:
100 Year ARI Flow Velocity for Current Climate

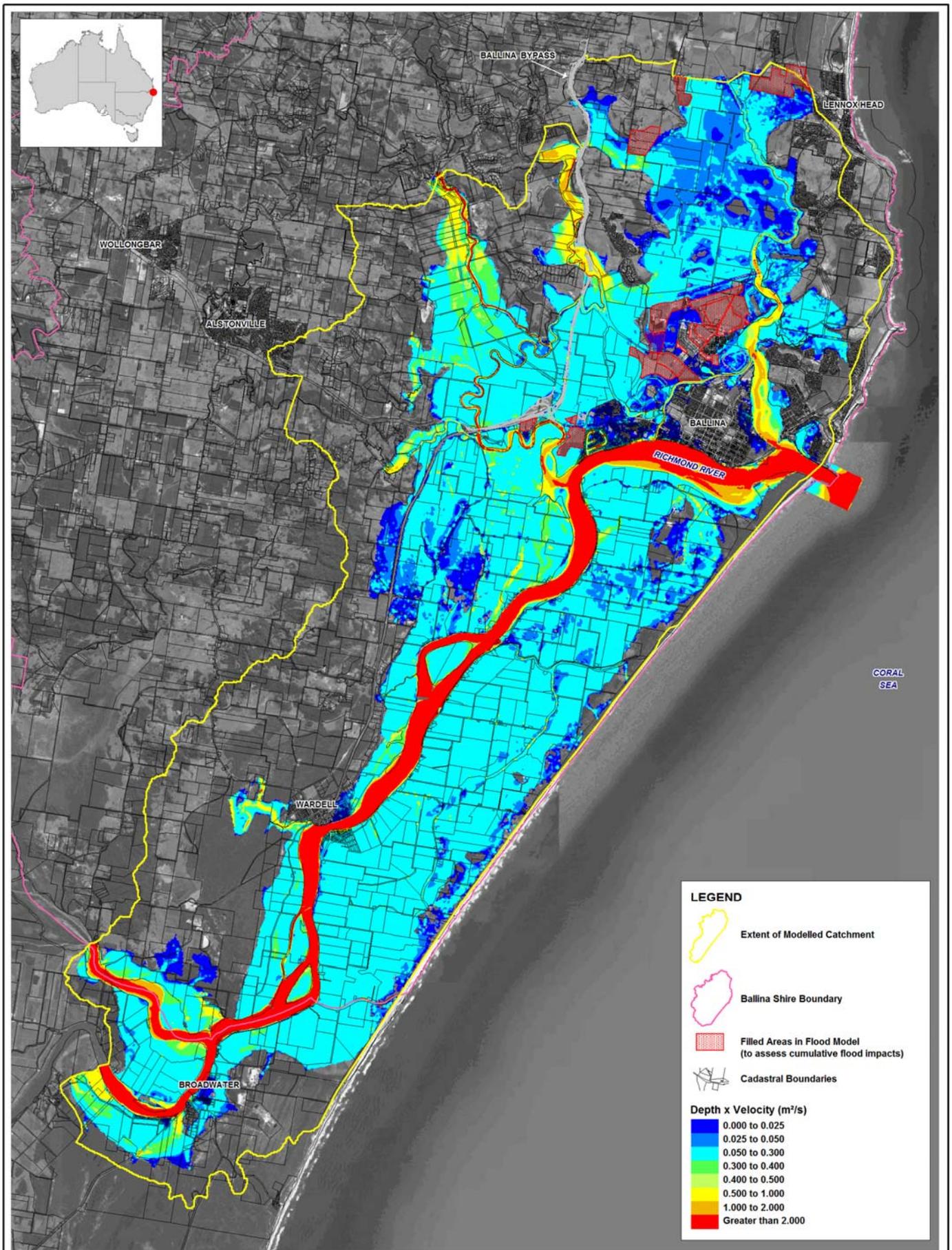
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Drawing No. B17316-FRMS-DV-005 100 Year ARI Depth x Velocity for Current Climate



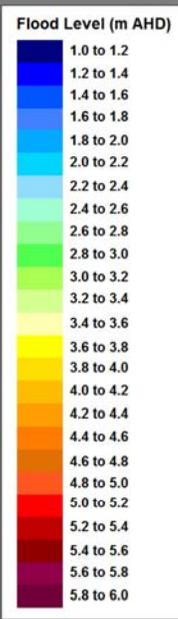
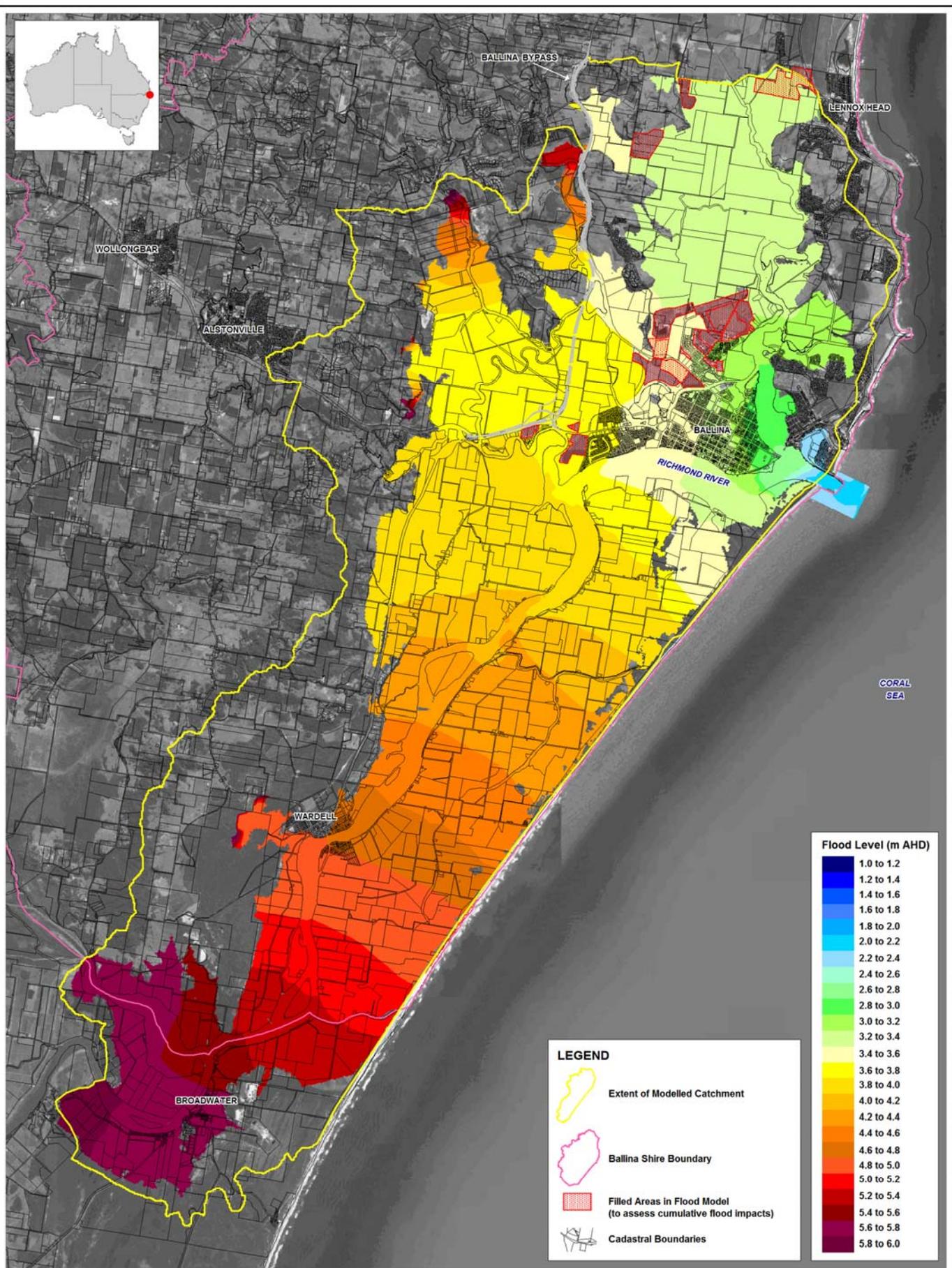
Title: **100 Year ARI Depth x Velocity for Current Climate**

Drawing No: **B17316-FRMS-DV-005** Rev: **A**

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Drawing No. B17316-FRMS-L-007 PMF Flood Level for Current Climate



LEGEND

- Extent of Modelled Catchment
- Ballina Shire Boundary
- Filled Areas in Flood Model (to assess cumulative flood impacts)
- Cadastral Boundaries

Title: **PMF Flood Level for Current Climate**

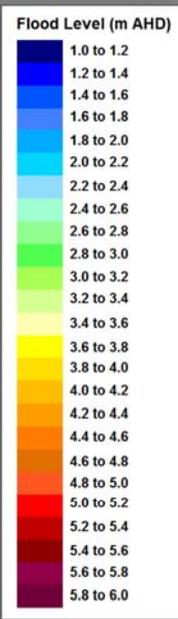
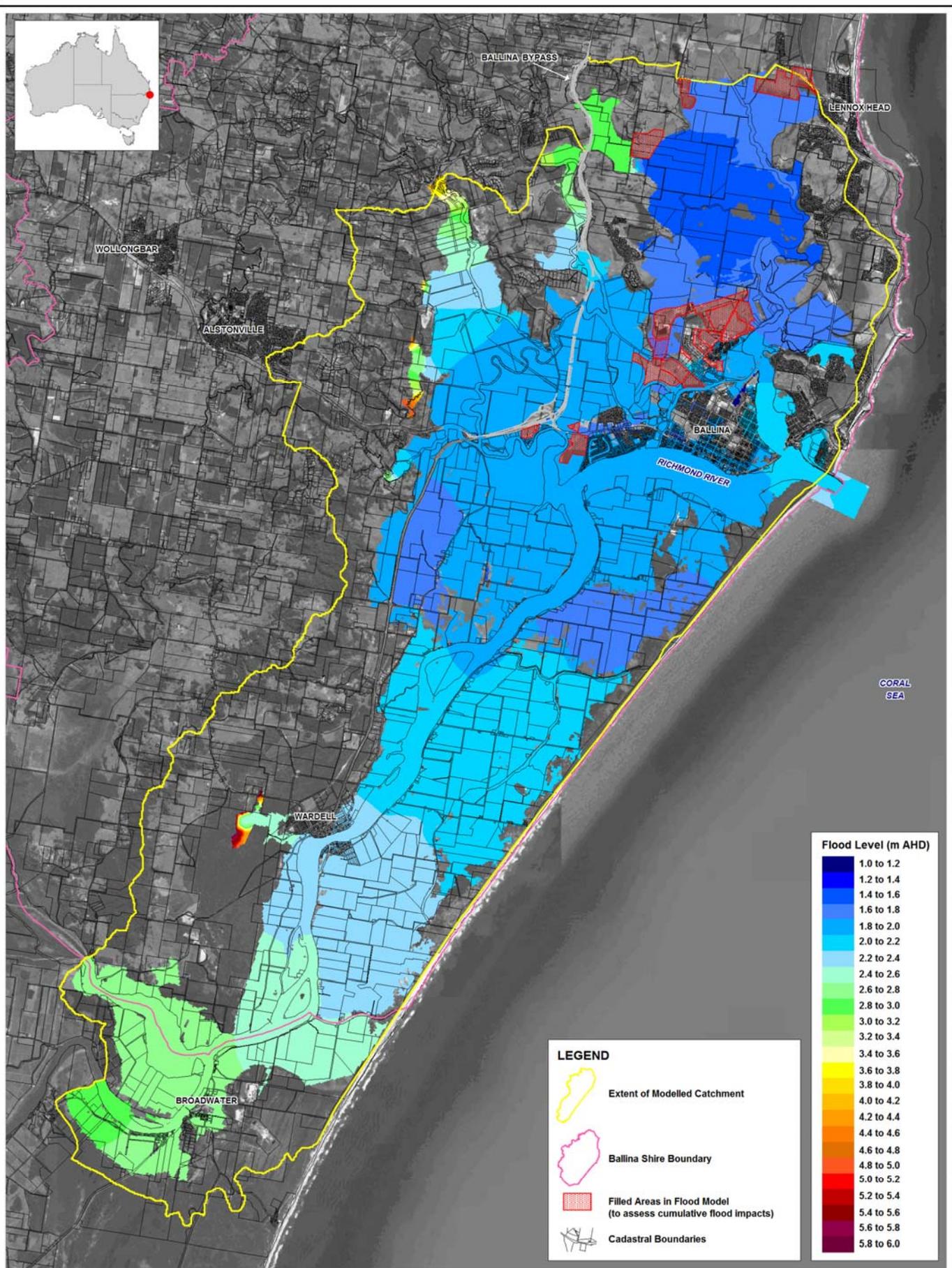
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Drawing No. B17316-FRMS-L-103 20 Year ARI Flood Level for 2050 Climate Change Horizon



LEGEND

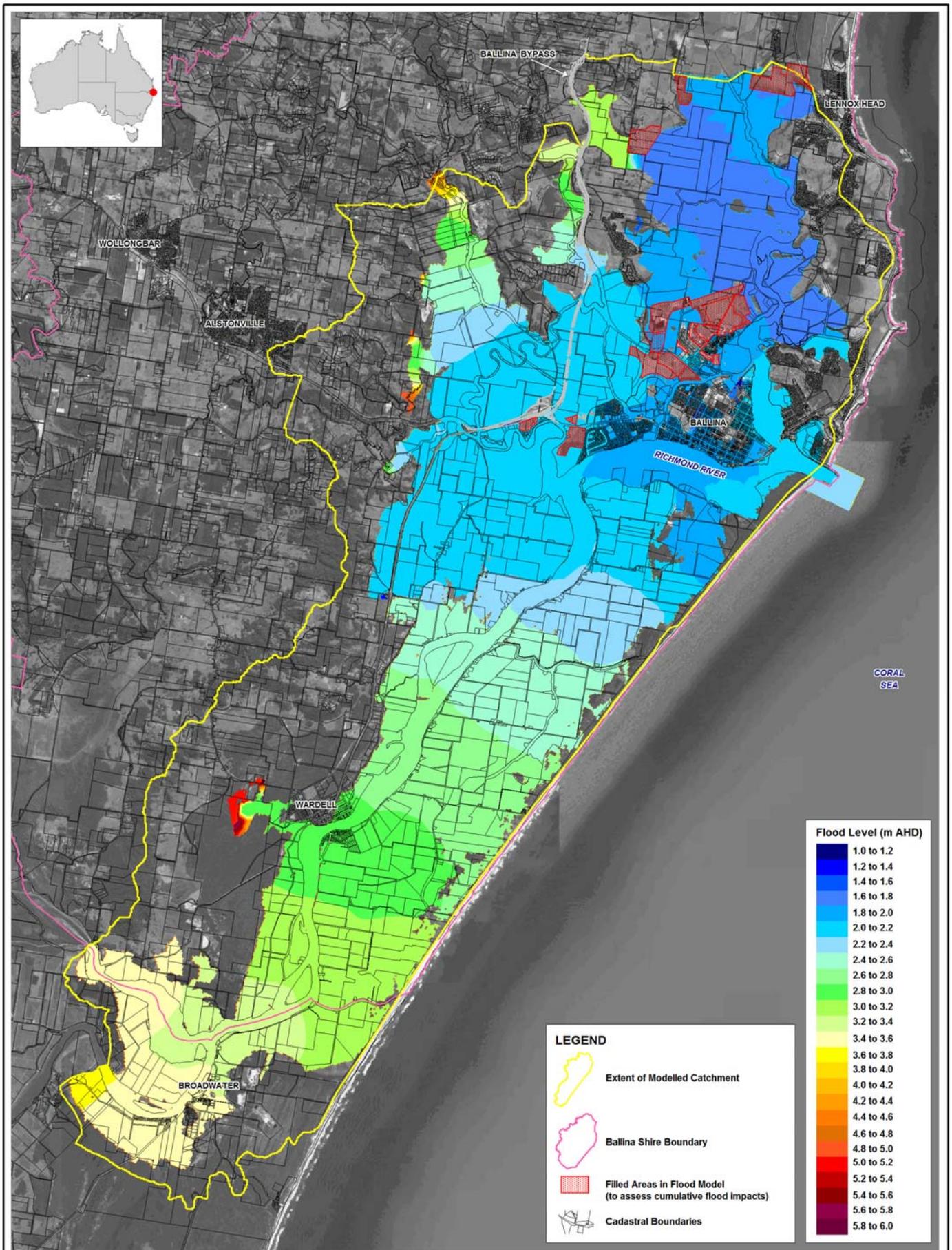
-  Extent of Modelled Catchment
-  Ballina Shire Boundary
-  Filled Areas in Flood Model (to assess cumulative flood impacts)
-  Cadastral Boundaries

Title: **20 Year ARI Flood Level for 2050 Climate Change Horizon** Drawing No: **B17316-FRMS-L-103** Rev: **A**

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Drawing No. B17316-FRMS-L-104 50 Year ARI Flood Level for 2050 Climate Change Horizon



Title: **50 Year ARI Flood Level for 2050 Climate Change Horizon**

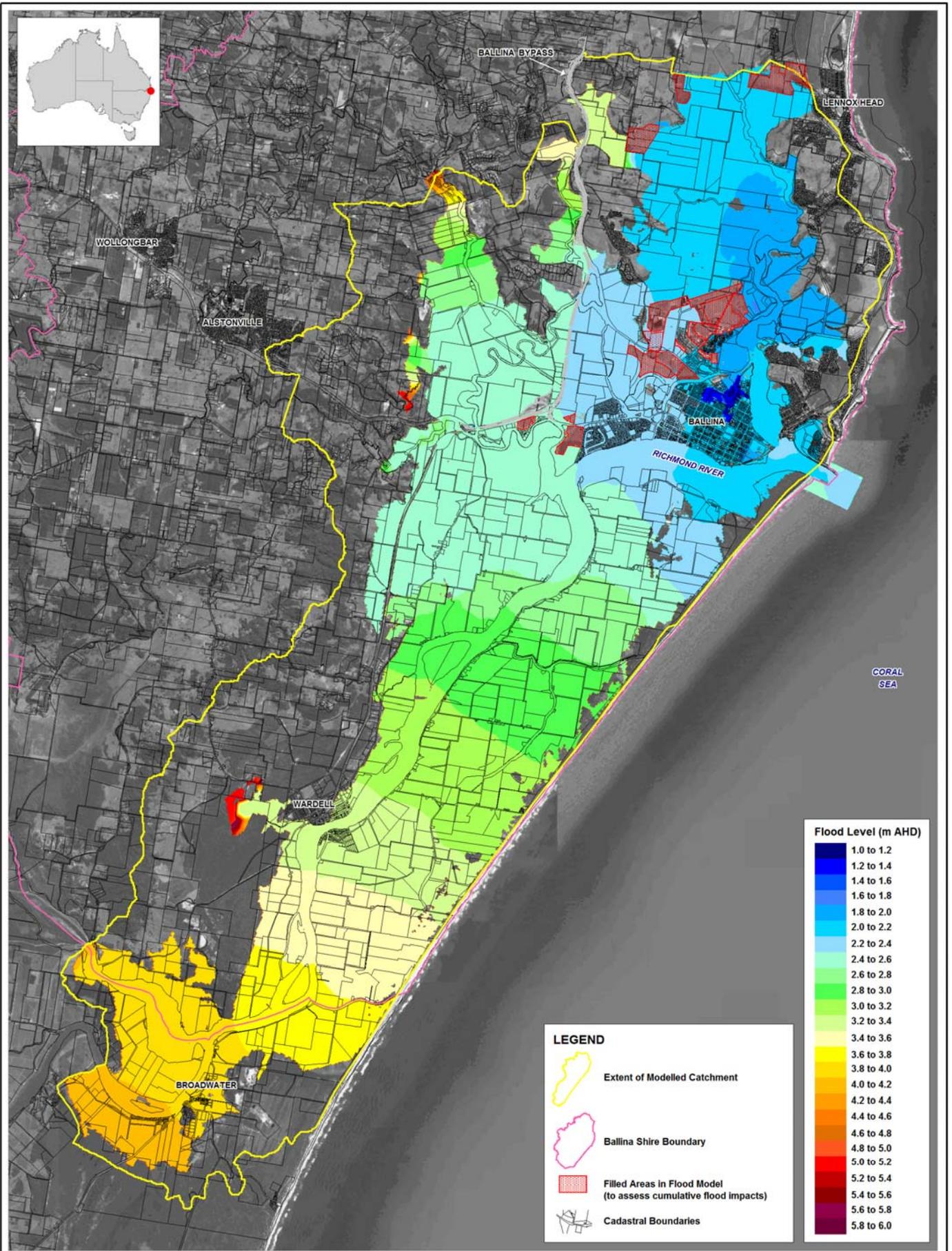
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Drawing No. B17316-FRMS-L-105 100 Year ARI Flood Level for 2050 Climate Change Horizon



Title: **100 Year ARI Flood Level for 2050 Climate Change Horizon**

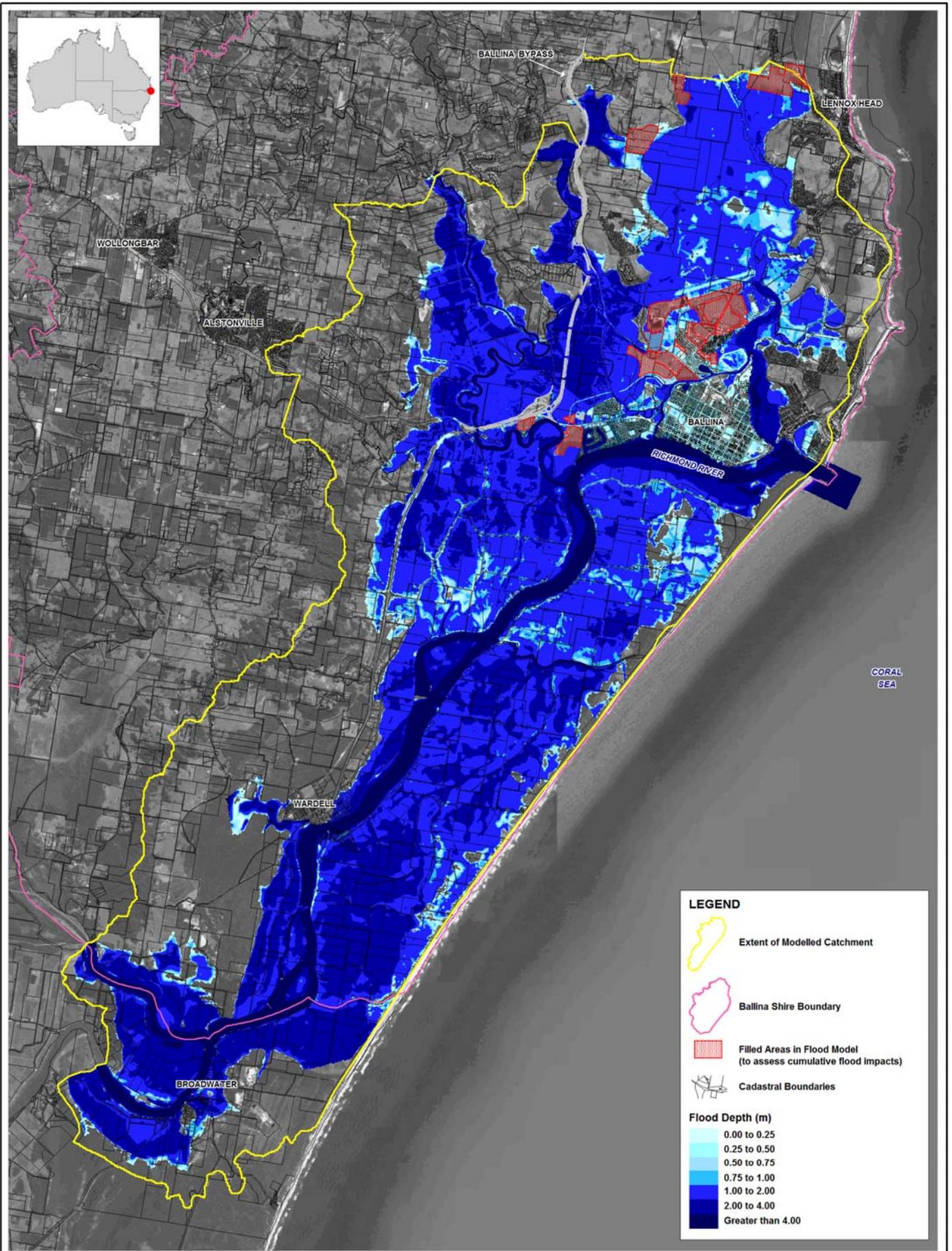
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Drawing No. B17316-FRMS-D-105 100 Year ARI Flood Depth for 2050 Climate Change Horizon



Title: **100 Year ARI Flood Depth for 2050 Climate Change Horizon**

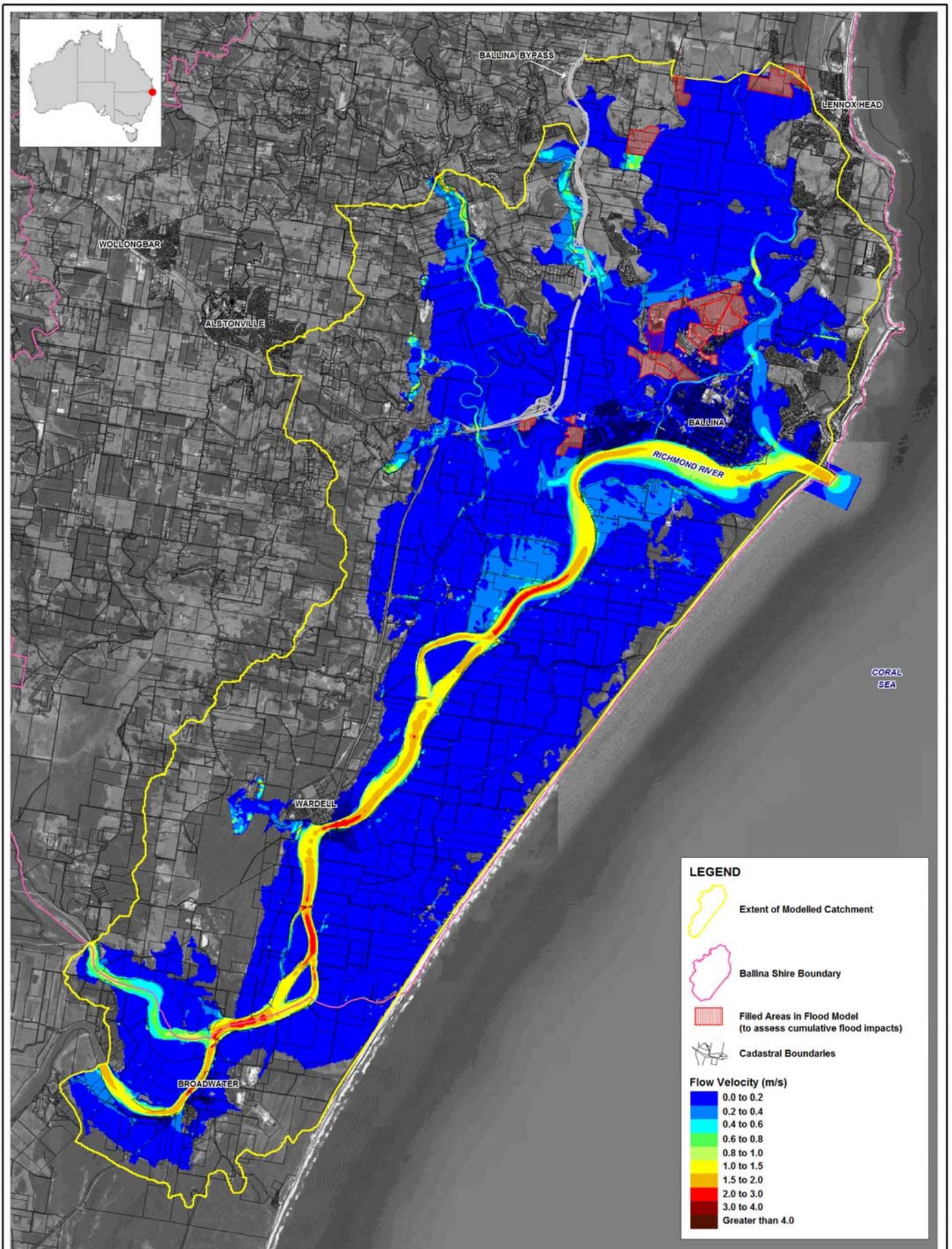
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Drawing No. B17316-FRMS-V-105 100 Year ARI Flow Velocity for 2050 Climate Change Horizon



Title: **100 Year ARI Flow Velocity for 2050 Climate Change Horizon**

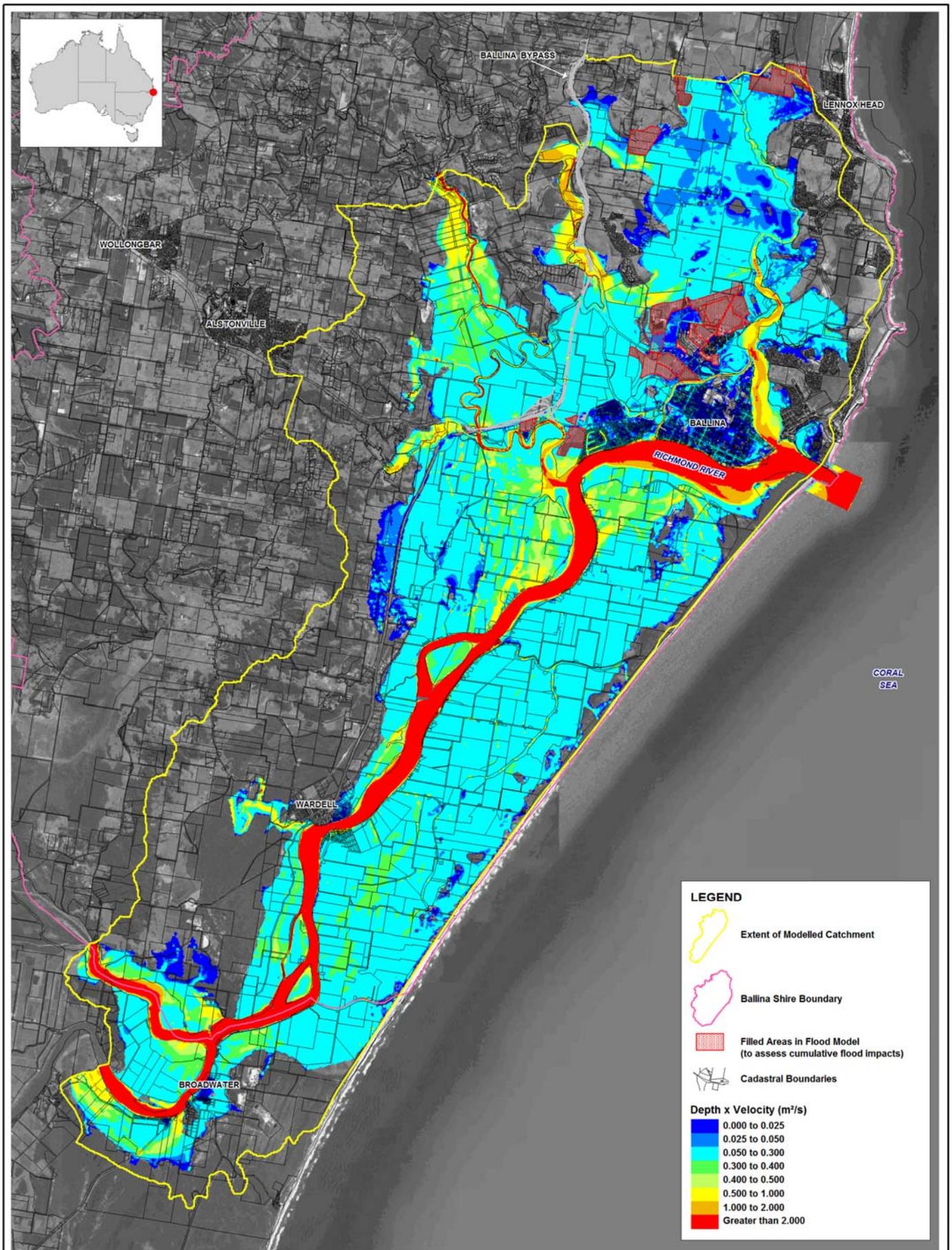
Drawing No: **B17316-FRMS-V-105**

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Drawing No. B17316-FRMS-DV-105 100 Year ARI Depth x Velocity for 2050 Climate Change Horizon



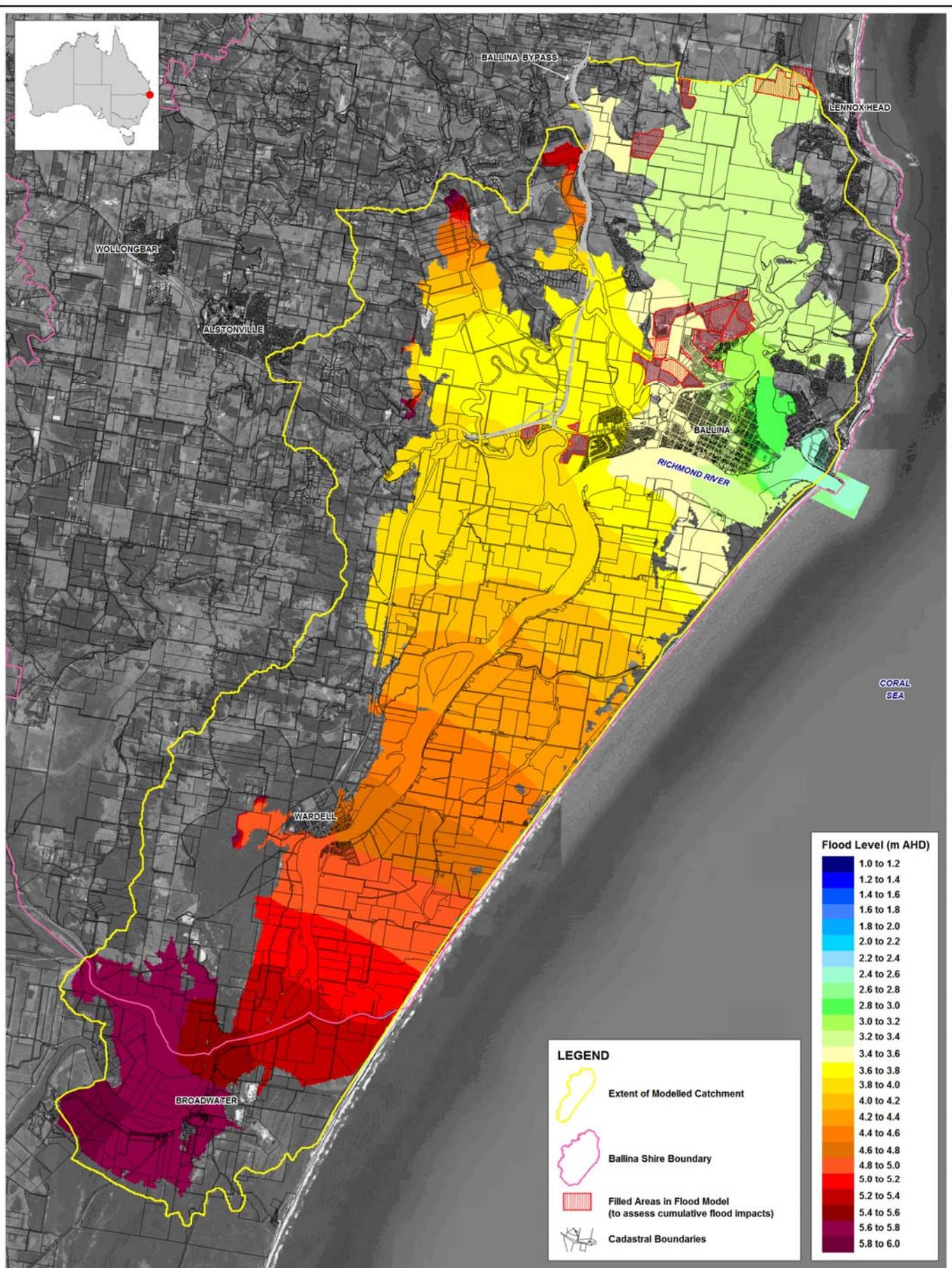
Title: **100 Year ARI Depth x Velocity for 2050 Climate Change Horizon**

Drawing No: **B17316-FRMS-DV-105** Rev: **A**

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Drawing No. B17316-FRMS-L-107 PMF Flood Level for 2050 Climate Change Horizon



Title: **PMF Flood Level for 2050 Climate Change Horizon**

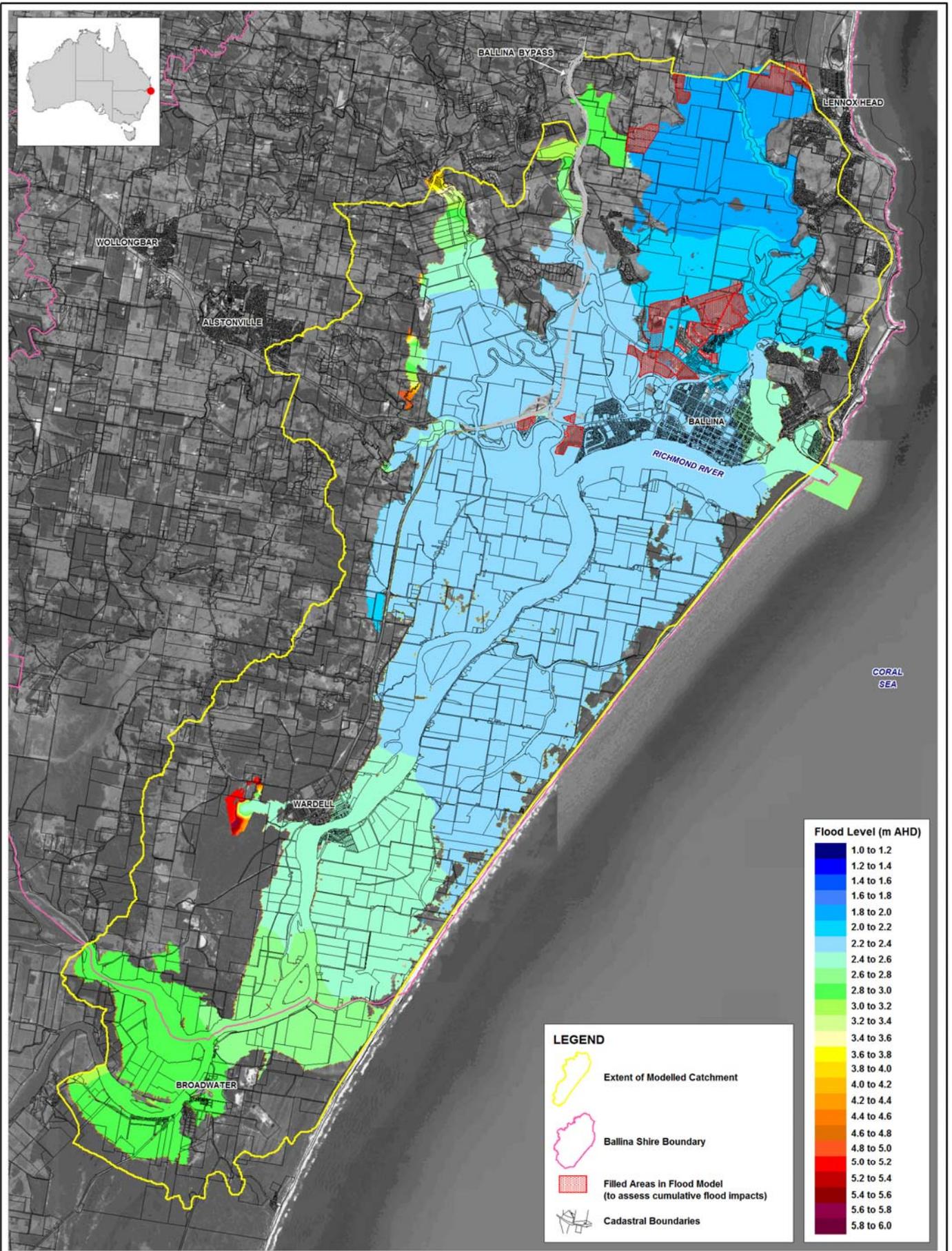
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Drawing No. B17316-FRMS-L-203 20 Year ARI Flood Level for 2100 Climate Change Horizon



Title: **20 Year ARI Flood Level for 2100 Climate Change Horizon**

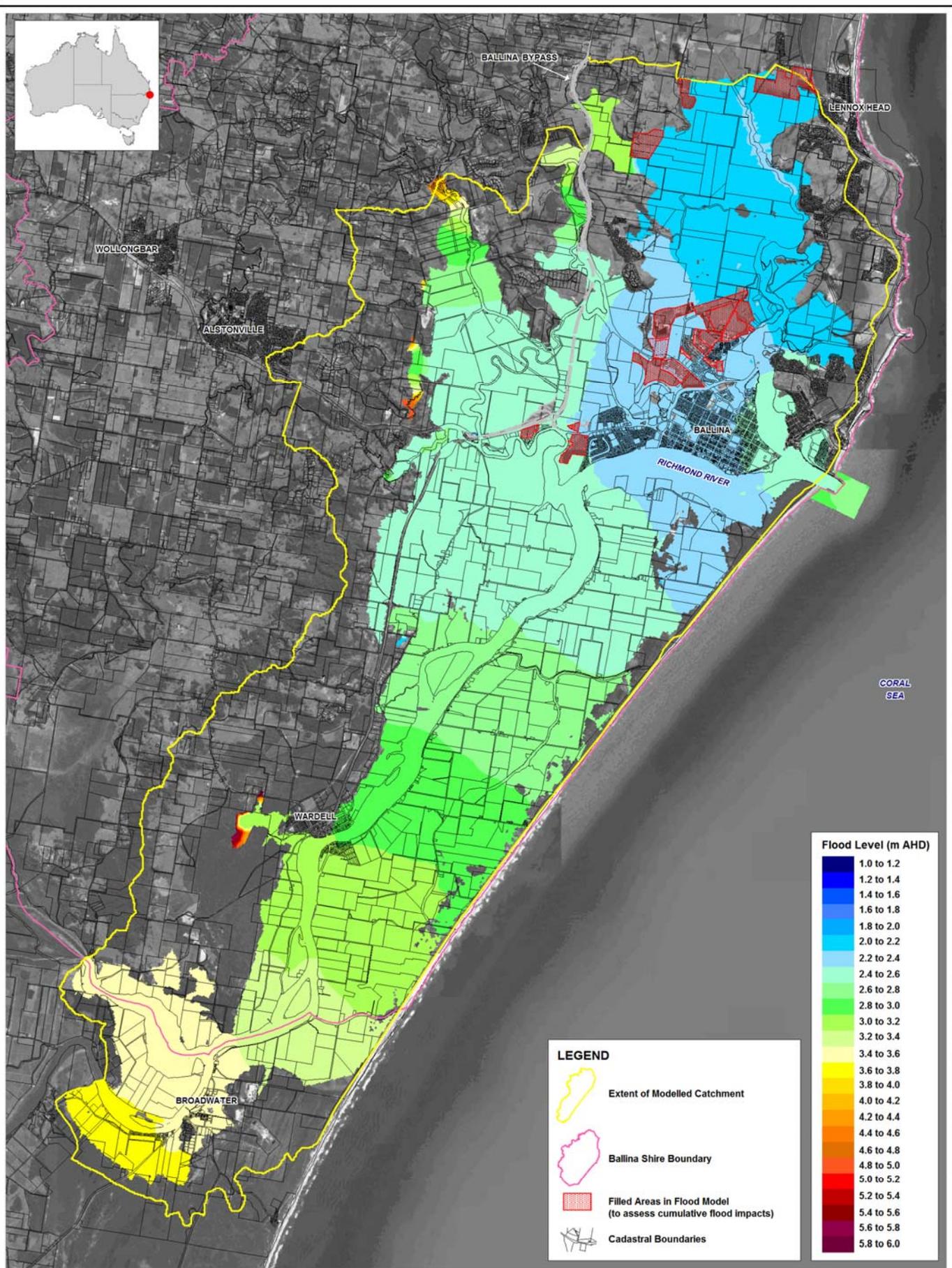
Drawing No: **B17316-FRMS-L-203**

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Drawing No. B17316-FRMS-L-204 50 Year ARI Flood Level for 2100 Climate Change Horizon



LEGEND

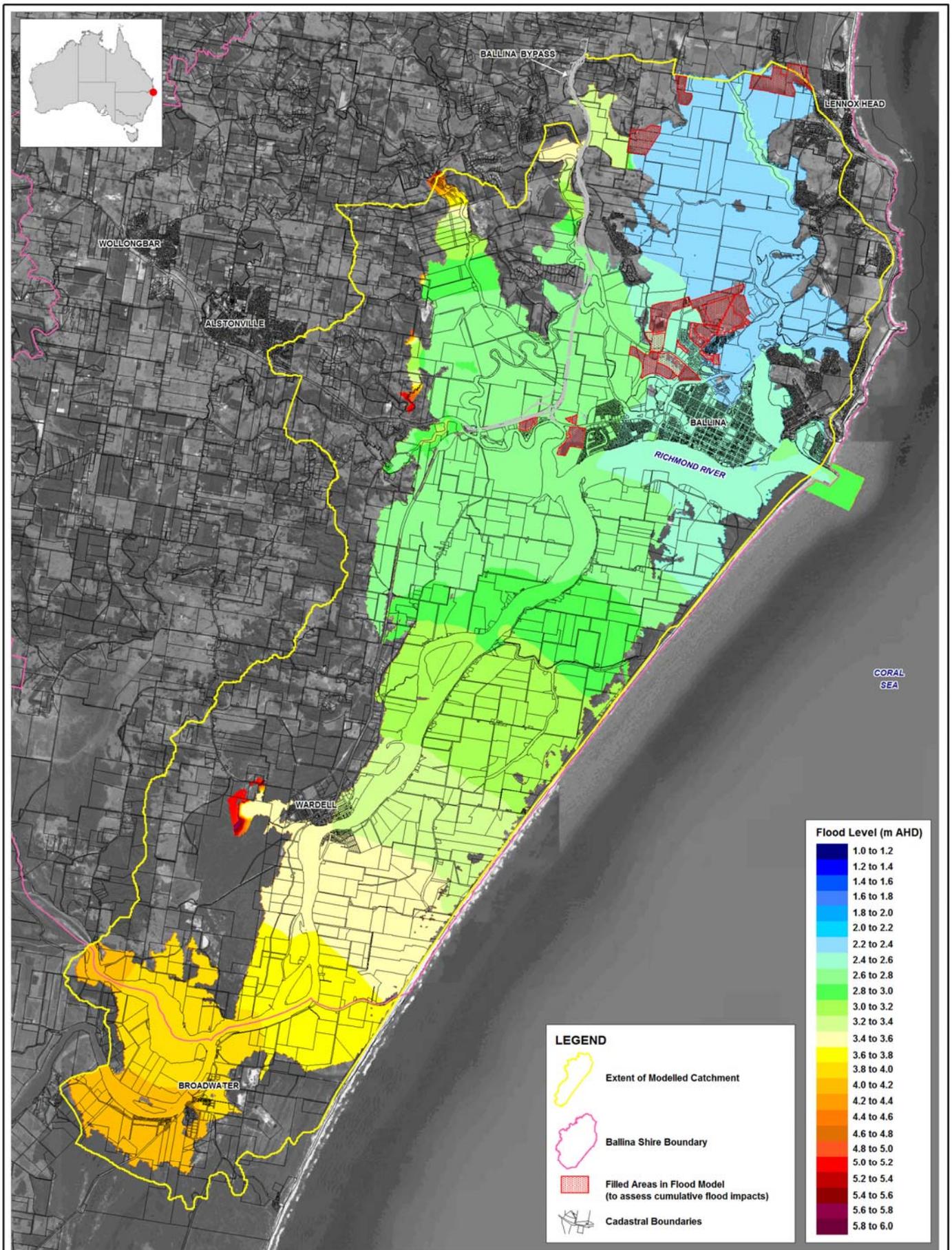
- Extent of Modelled Catchment
- Ballina Shire Boundary
- Filled Areas in Flood Model (to assess cumulative flood impacts)
- Cadastral Boundaries

Title: **50 Year ARI Flood Level for 2100 Climate Change Horizon** Drawing No: **B17316-FRMS-L-204** Rev: **A**

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Drawing No. B17316-FRMS-L-205 100 Year ARI Flood Level for 2100 Climate Change Horizon



Title: **100 Year ARI Flood Level for 2100 Climate Change Horizon**

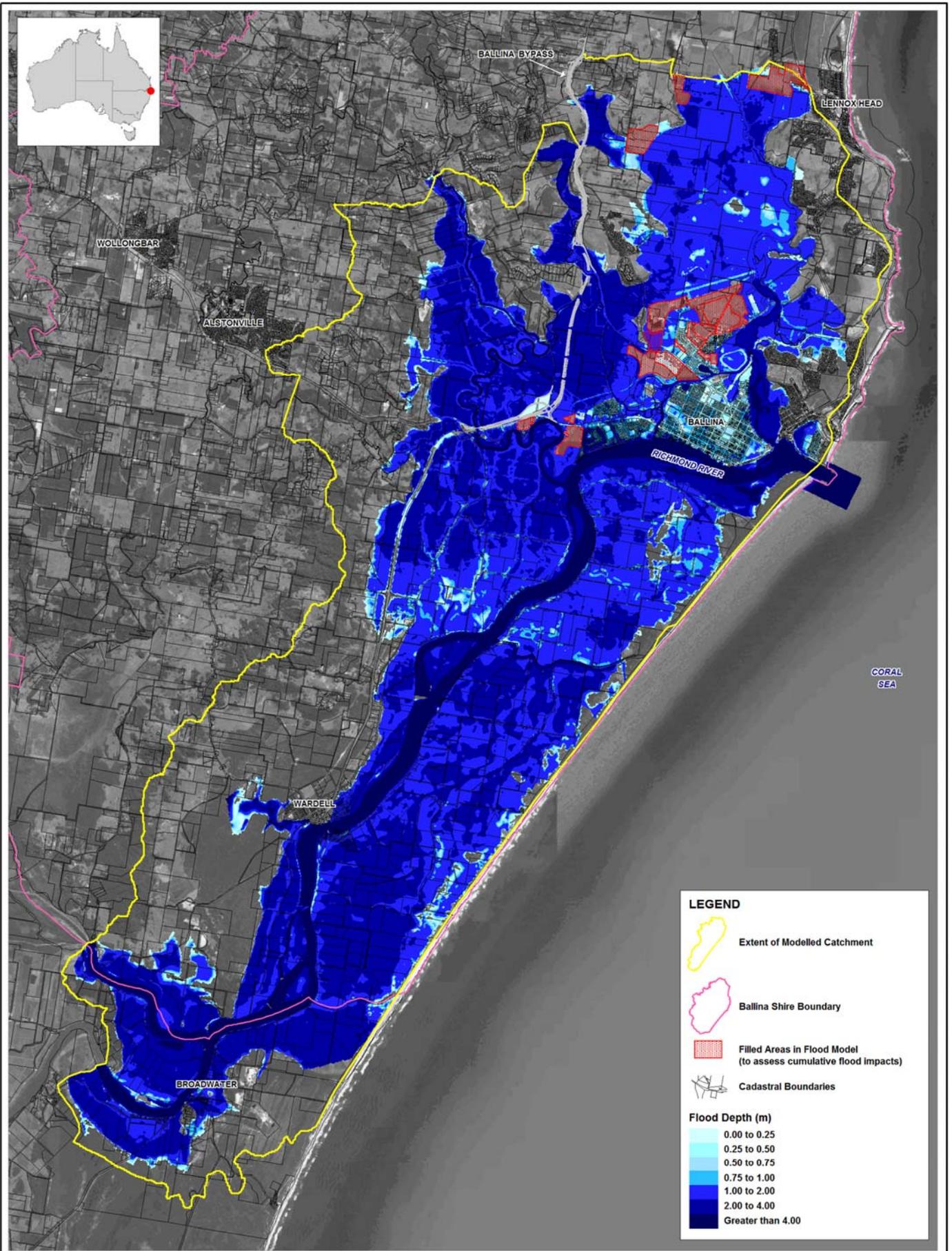
Drawing No: **B17316-FRMS-L-205**

Rev: **A**

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Drawing No. B17316-FRMS-D-205 100 Year ARI Flood Depth for 2100 Climate Change Horizon



Title:
100 Year ARI Flood Depth for 2100 Climate Change Horizon

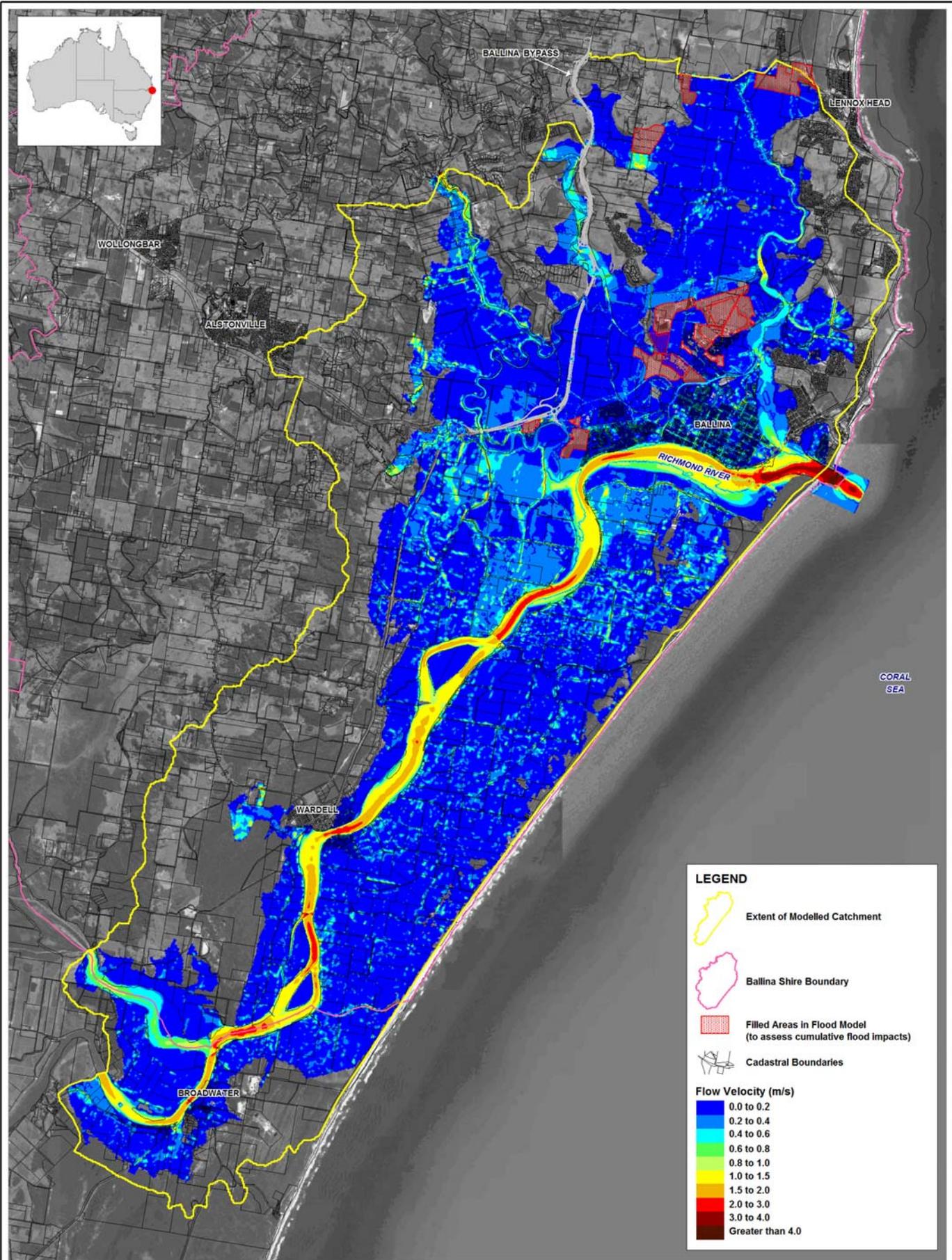
Drawing No:
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Drawing No. B17316-FRMS-V-205 100 Year ARI Flow Velocity for 2100 Climate Change Horizon



LEGEND

- Extent of Modelled Catchment
- Ballina Shire Boundary
- Filled Areas in Flood Model (to assess cumulative flood impacts)
- Cadastral Boundaries

Flow Velocity (m/s)

- 0.0 to 0.2
- 0.2 to 0.4
- 0.4 to 0.6
- 0.6 to 0.8
- 0.8 to 1.0
- 1.0 to 1.5
- 1.5 to 2.0
- 2.0 to 3.0
- 3.0 to 4.0
- Greater than 4.0

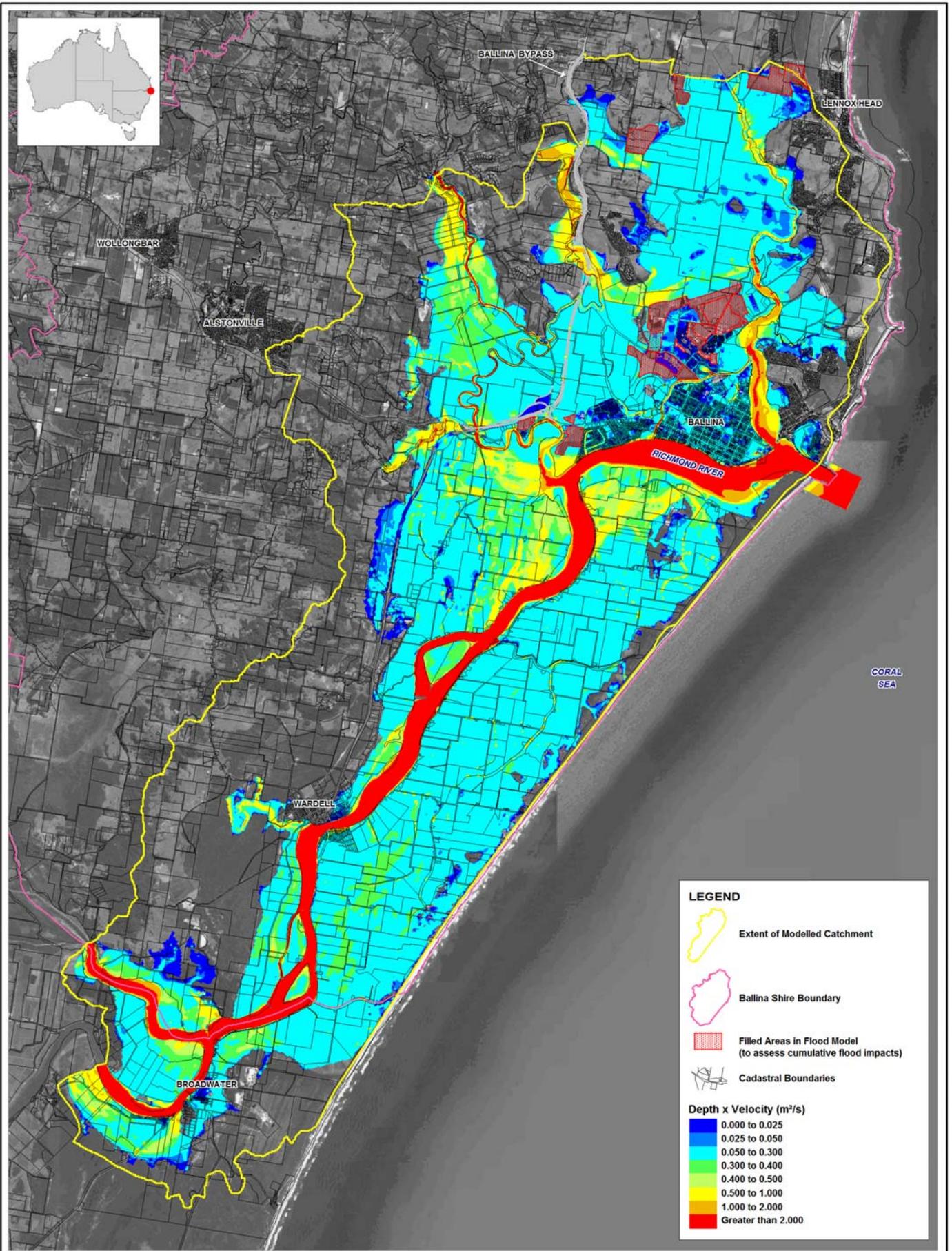
Title: **100 Year ARI Flow Velocity for 2100 Climate Change Horizon**

Drawing No: **B17316-FRMS-V-205** Rev: **A**

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Drawing No. B17316-FRMS-DV-205 100 Year ARI Depth x Velocity for 2100 Climate Change Horizon



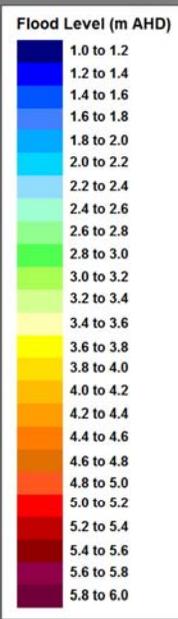
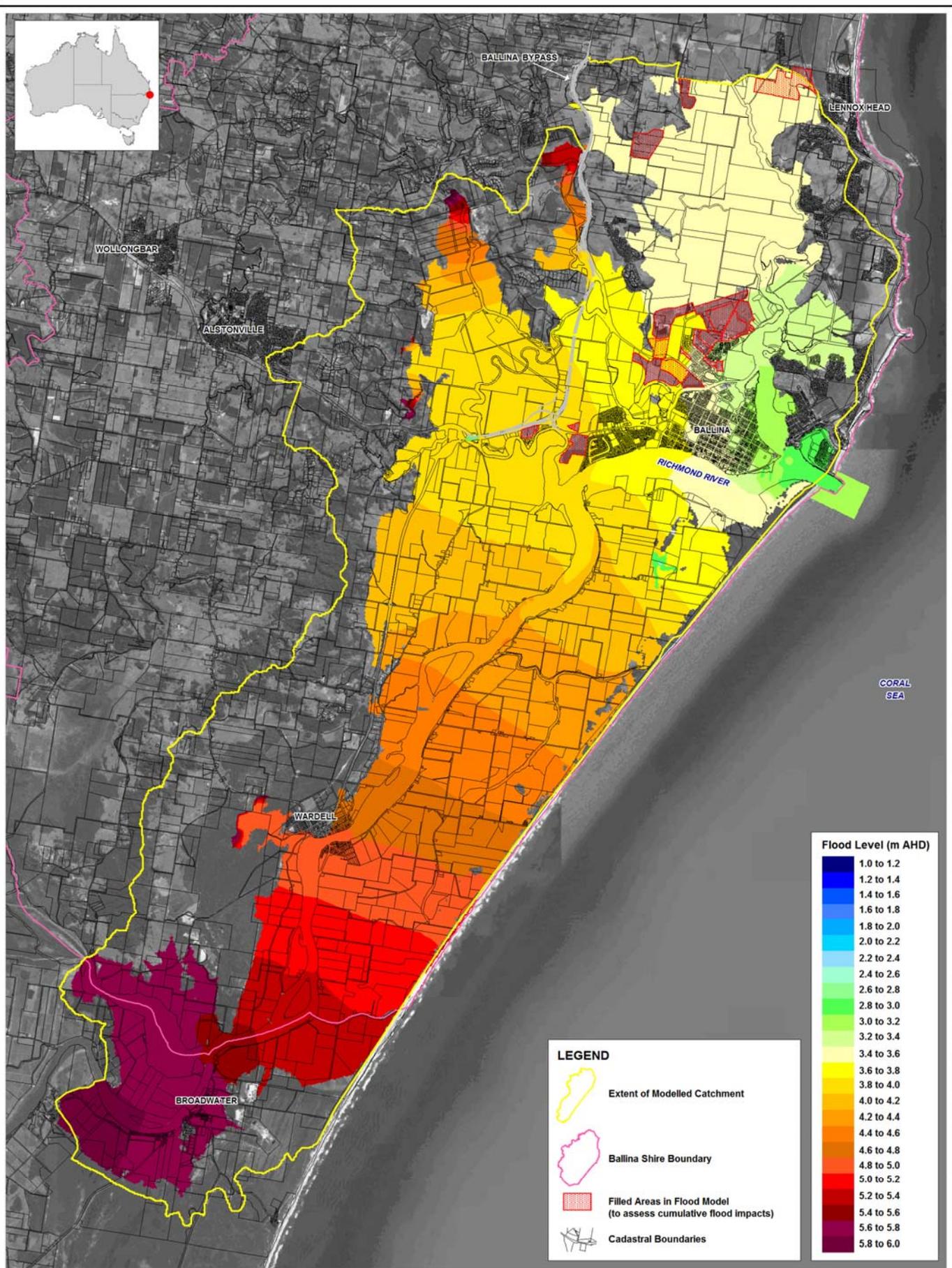
Title: **100 Year ARI Depth x Velocity for 2100 Climate Change Horizon**

Drawing No: **B17316-FRMS-DV-205** Rev: **A**

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Drawing No. B17316-FRMS-L-207 PMF Flood Level for 2100 Climate Change Horizon



LEGEND

- Extent of Modelled Catchment
- Ballina Shire Boundary
- Filled Areas in Flood Model (to assess cumulative flood impacts)
- Cadastral Boundaries

Title: **PMF Flood Level for 2100 Climate Change Horizon**

Drawing No: **B17316-FRMS-L-207**

Rev: **A**

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