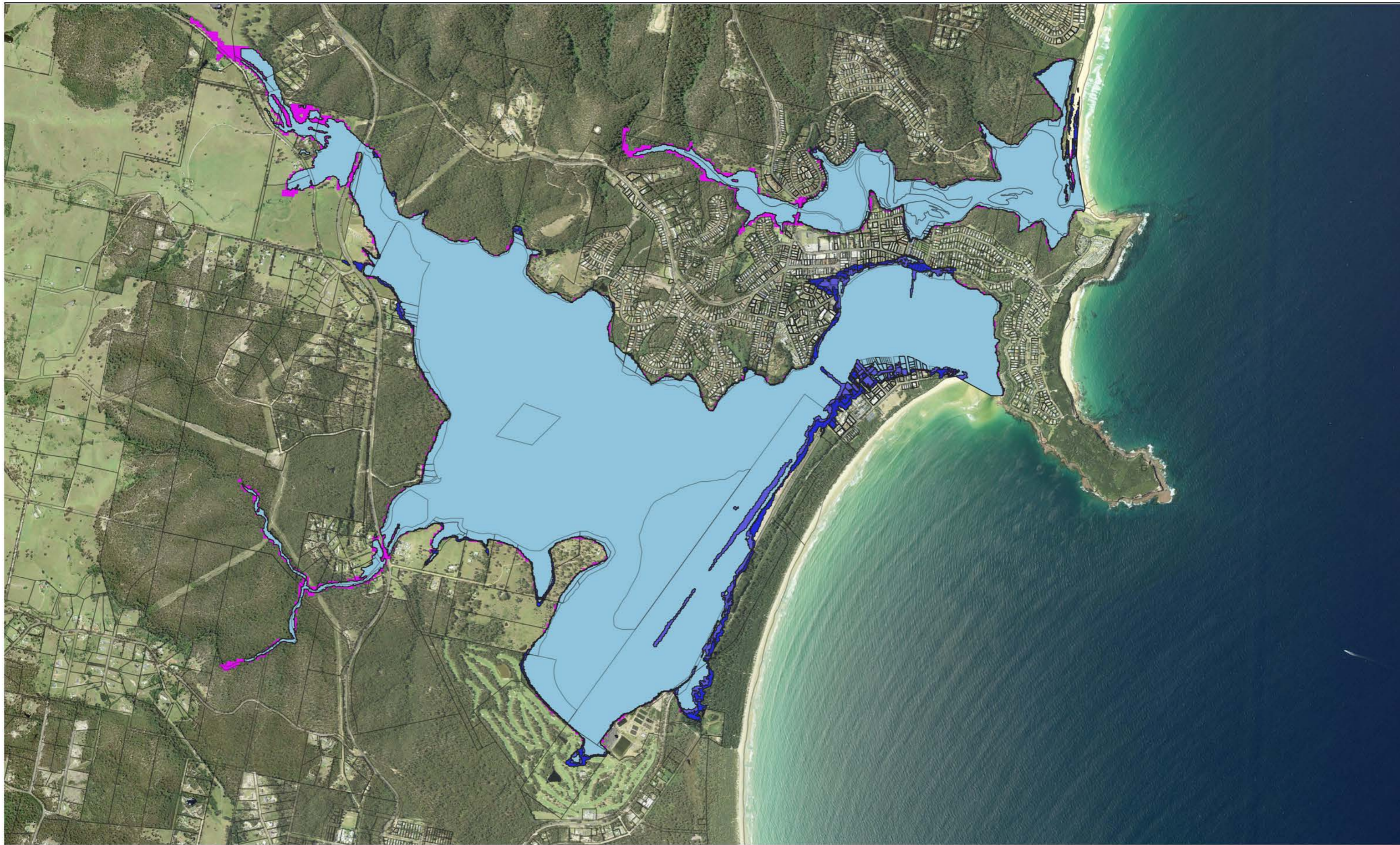
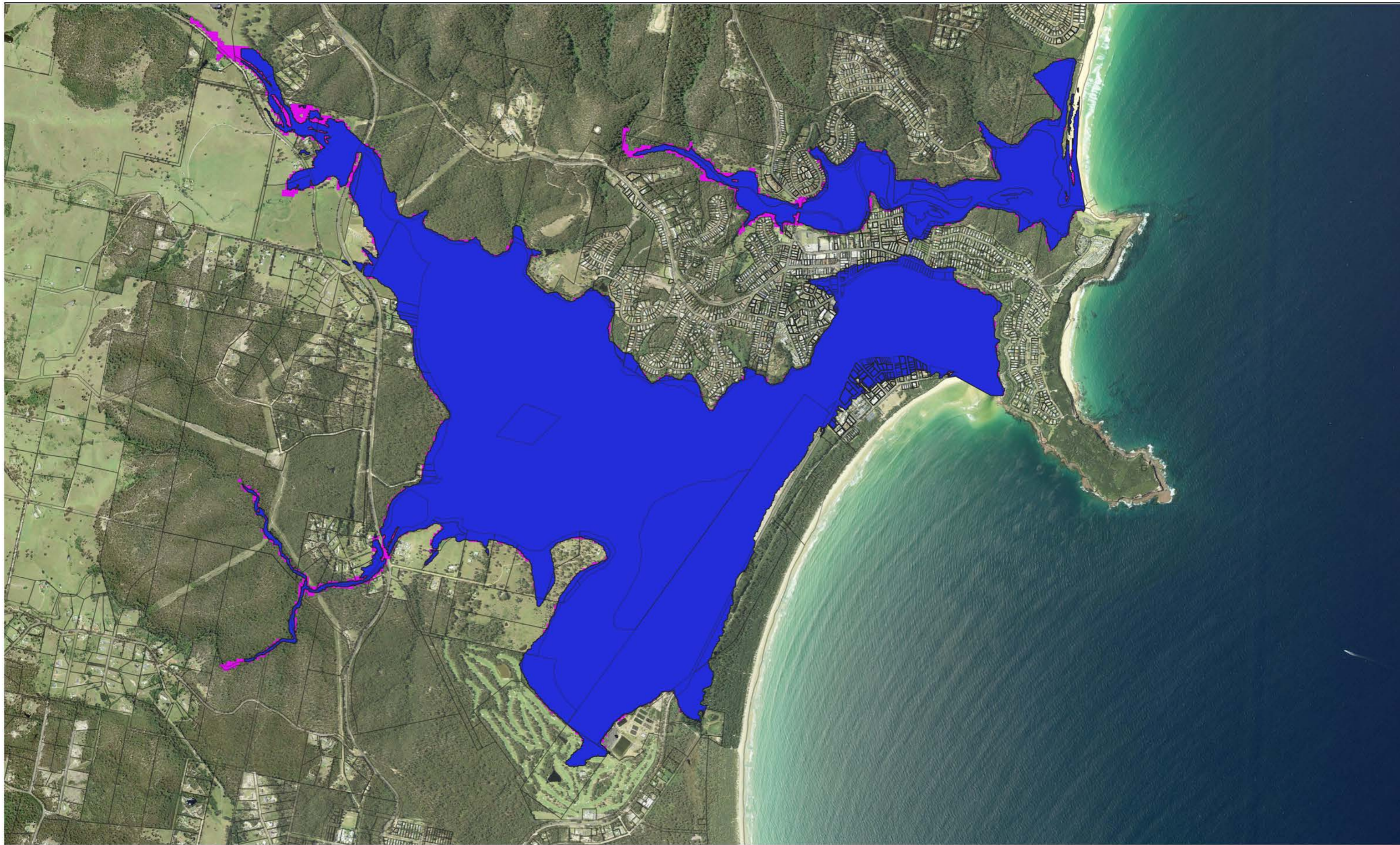
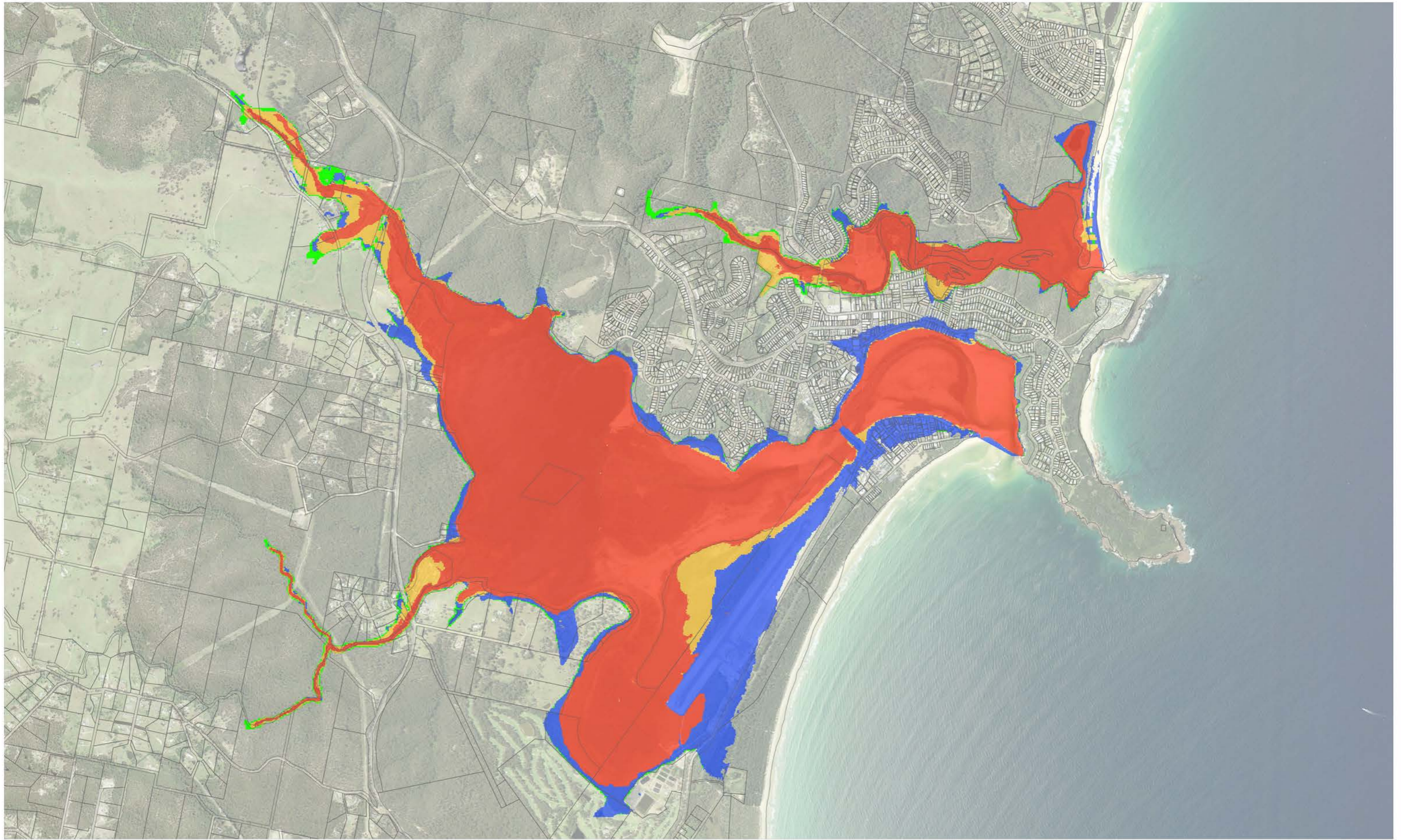




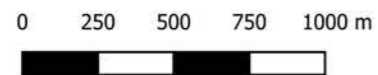
# MAPS





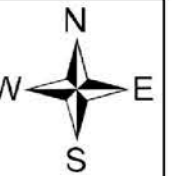


Scale : 1:25000@A3  
Date : 28 August 2020  
Revision : A  
Created by : JS  
Coordinate System : MGA94 Z55



Legend

- Cadastre
- Flood Planning Constraint Categories
  - FPCC1
  - FPCC2
  - FPCC3
  - FPCC4

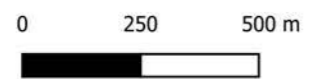


G603

Flood Planning Constraint Categories (FPCC)



Scale : 1:15000@A3  
 Date : 12 September 2019  
 Revision : A  
 Created by : LRE  
 Coordinate System : MGA94 Z56

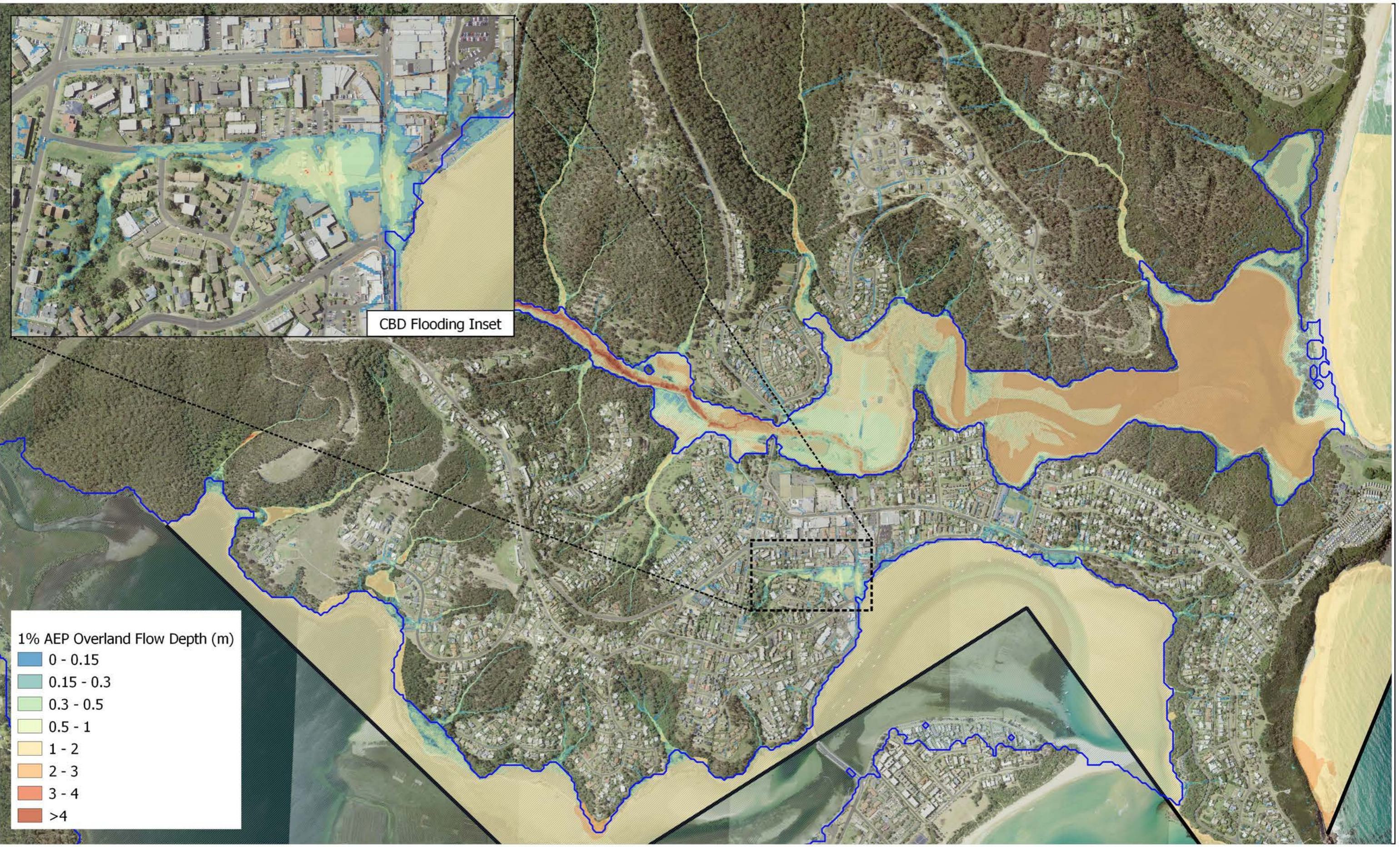


Legend

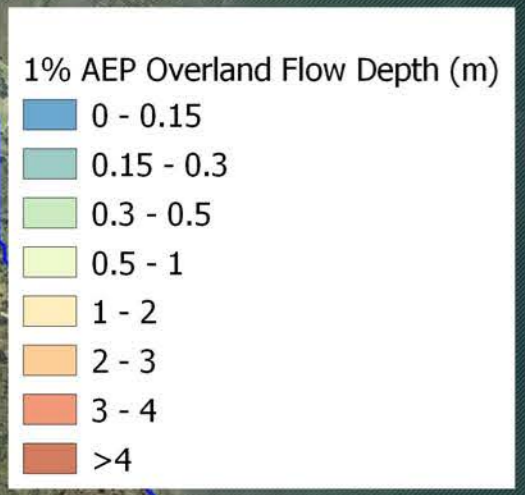
- |                     |                               |
|---------------------|-------------------------------|
| Cadastre            | SA Polygon for upstream flows |
| Model Area          | Building roughness layer      |
| Downstream Boundary | Road roughness layer          |
| Pipes / Culverts    | Urban roughness layer         |
| Pits                | Water roughness layer         |



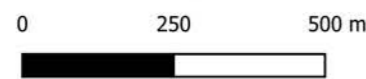
G701  
 Overland Flow Tuflow Model



CBD Flooding Inset

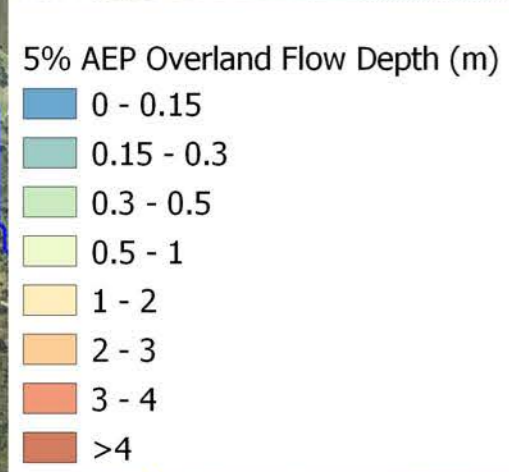
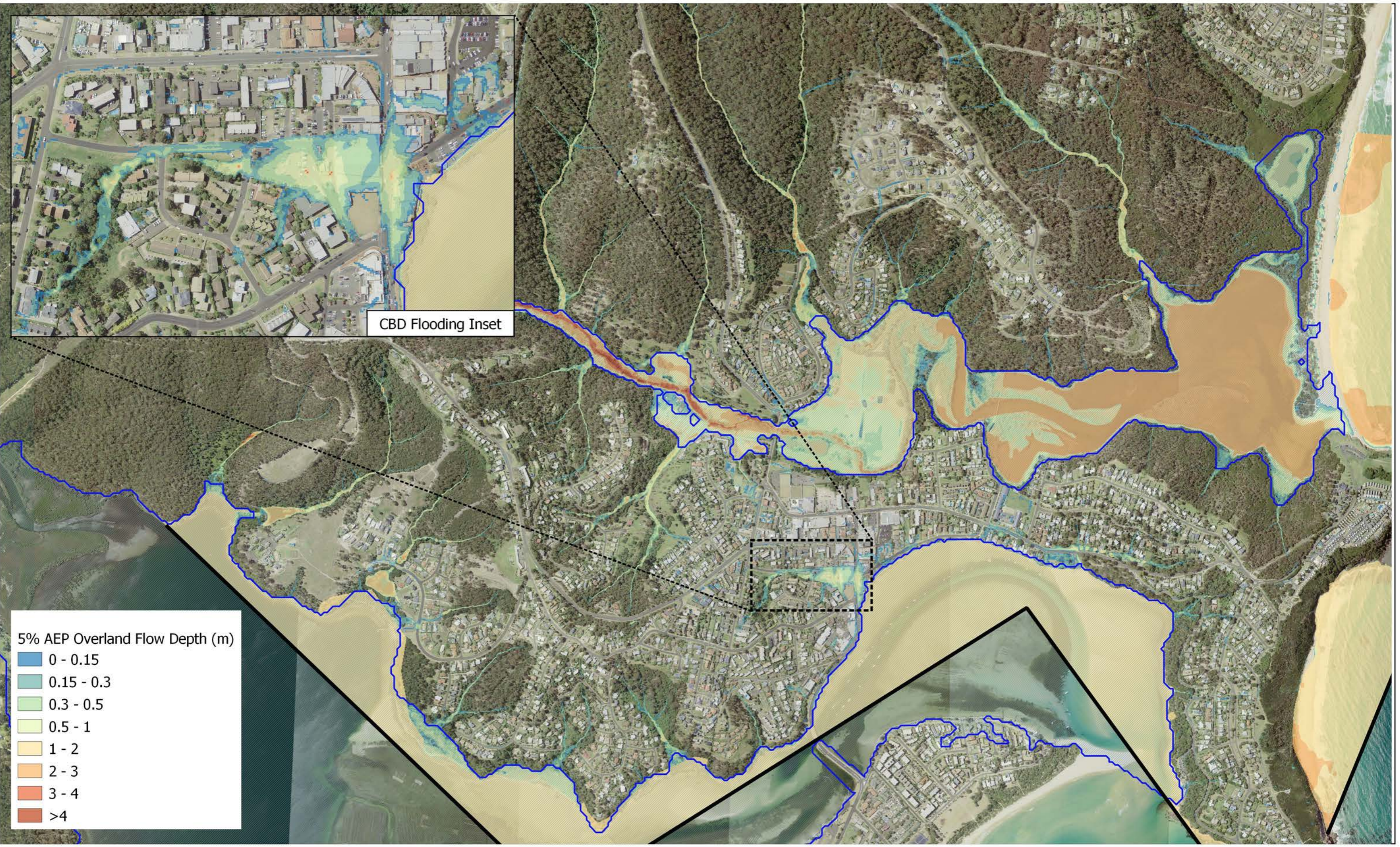


Scale : 1:12500@A3 (1:4000 inset)  
 Date : 26 July 2019  
 Revision : A  
 Created by : LRE  
 Coordinate System : Map Grid of Australia 94

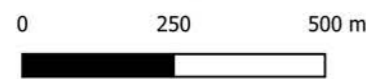


- Legend
- Cadastre
  - Overland Model Downstream Boundary
  - 1% AEP Lake Flooding Extent





Scale : 1:12500@A3 (1:4000 inset)  
 Date : 26 July 2019  
 Revision : A  
 Created by : LRE  
 Coordinate System : Map Grid of Australia 94

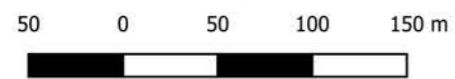






- Legend**
- Cadastre
  - Overland Model Downstream Boundary
  - 5% AEP Lake Flooding Extent





Scale : 1:400@A3  
Date : 15 June 2020  
Revision : A  
Created by : LRE  
Coordinate System : Map Grid of  
Australia 94











-  Model Extent
-  Culverts
- Boundaries
  -  Downstream
  -  Upstream



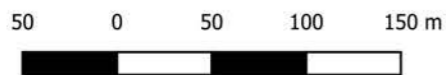


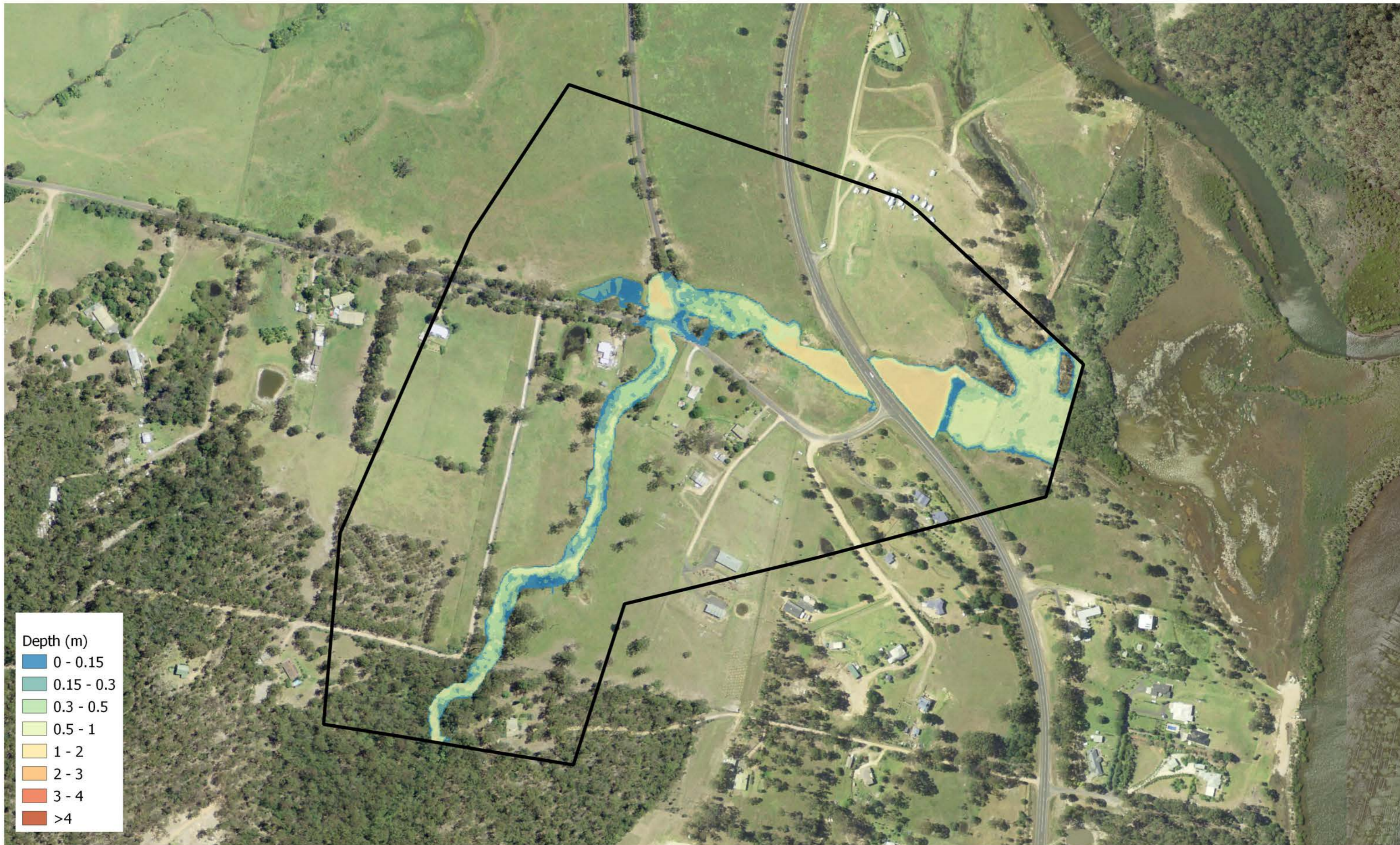


Depth (m)	
	0 - 0.15
	0.15 - 0.3
	0.3 - 0.5
	0.5 - 1
	1 - 2
	2 - 3
	3 - 4
	>4

Scale : 1:400@A3  
 Date : 15 June 2020  
 Revision : A  
 Created by : LRE  
 Coordinate System : Map Grid of  
 Australia 94

 Model Extent



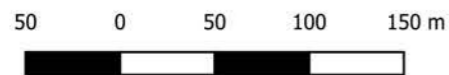


Depth (m)

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0.15 - 0.3
0.3 - 0.5
0.5 - 1
1 - 2
2 - 3
3 - 4
>4

Scale : 1:400@A3  
 Date : 15 June 2020  
 Revision : A  
 Created by : LRE  
 Coordinate System : Map Grid of  
 Australia 94

 Model Extent





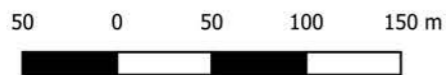
Depth (m)

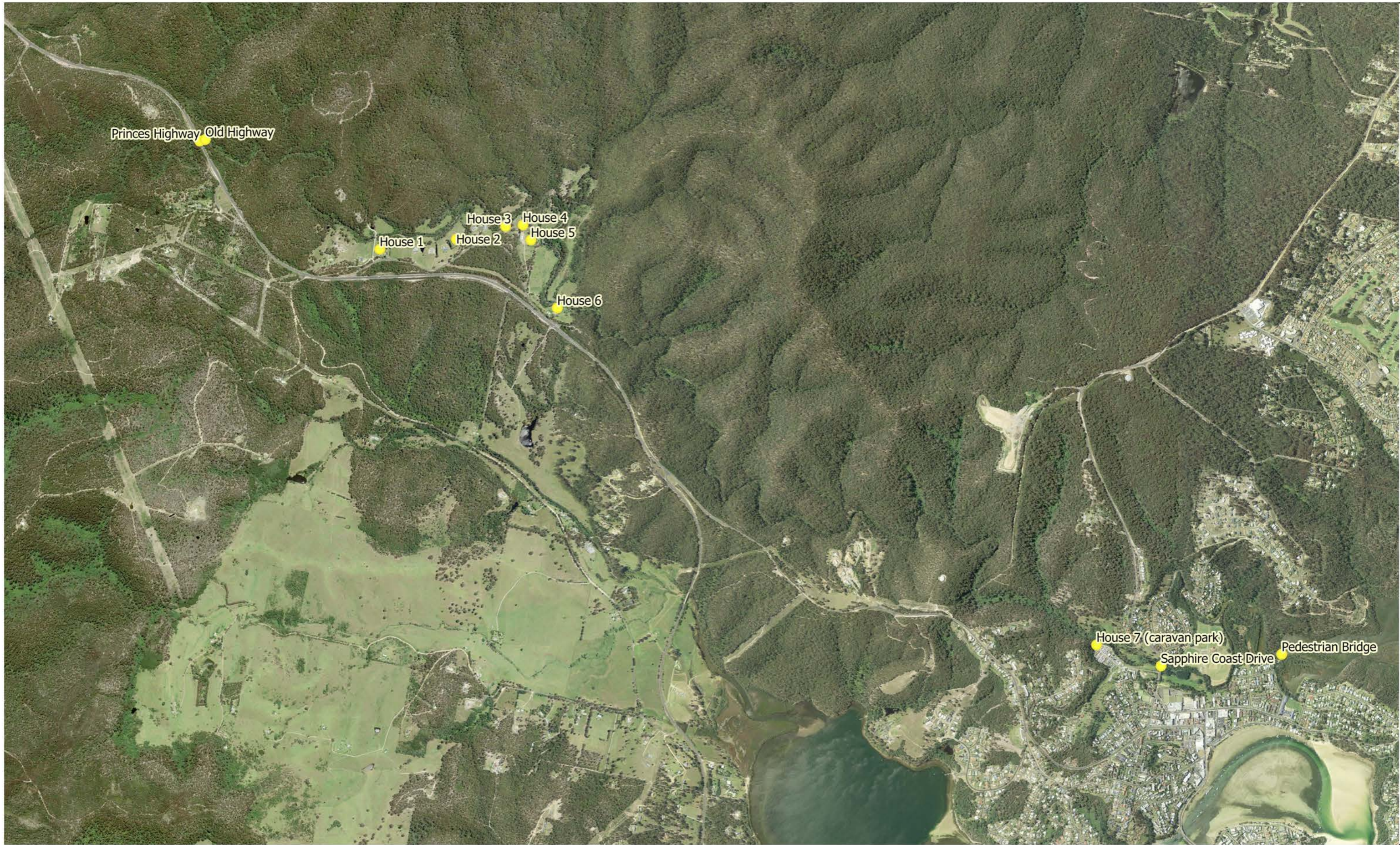
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0.15 - 0.3
0.3 - 0.5
0.5 - 1
1 - 2
2 - 3
3 - 4
>4

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 Date : 15 June 2020  
 Revision : A  
 Created by : LRE

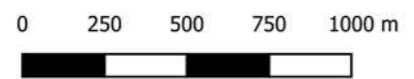
Coordinate System : Map Grid of Australia 94

 Model Extent



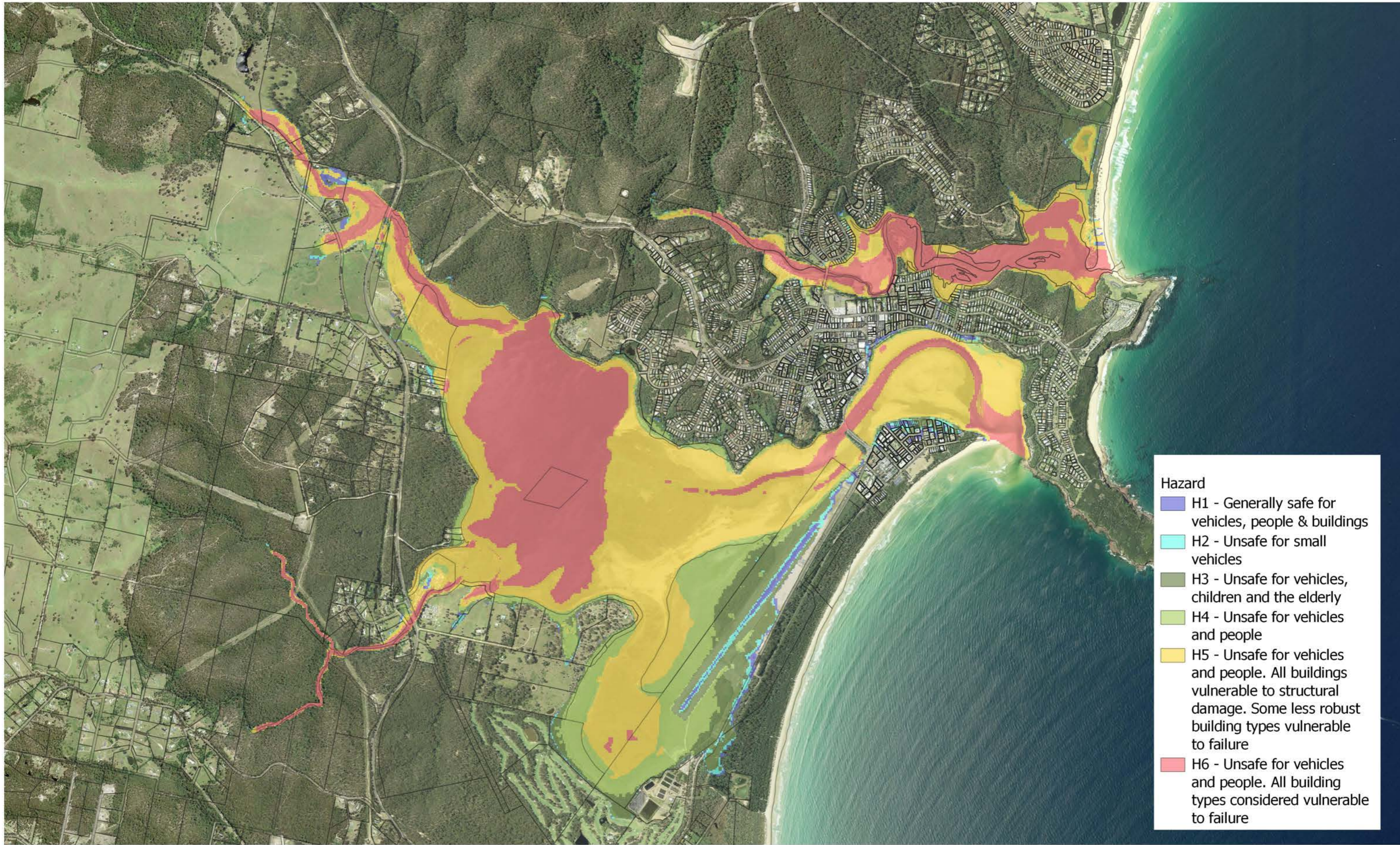


Scale : 1:25000@A3  
Date : 13 September 2019  
Revision : A  
Created by : LRE  
Coordinate System : Map Grid of  
Australia 94



Legend  
● Yellow Pinch Dam failure affected locations



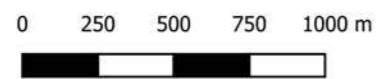


- Hazard**
- H1 - Generally safe for vehicles, people & buildings
  - H2 - Unsafe for small vehicles
  - H3 - Unsafe for vehicles, children and the elderly
  - H4 - Unsafe for vehicles and people
  - H5 - Unsafe for vehicles and people. All buildings vulnerable to structural damage. Some less robust building types vulnerable to failure
  - H6 - Unsafe for vehicles and people. All building types considered vulnerable to failure

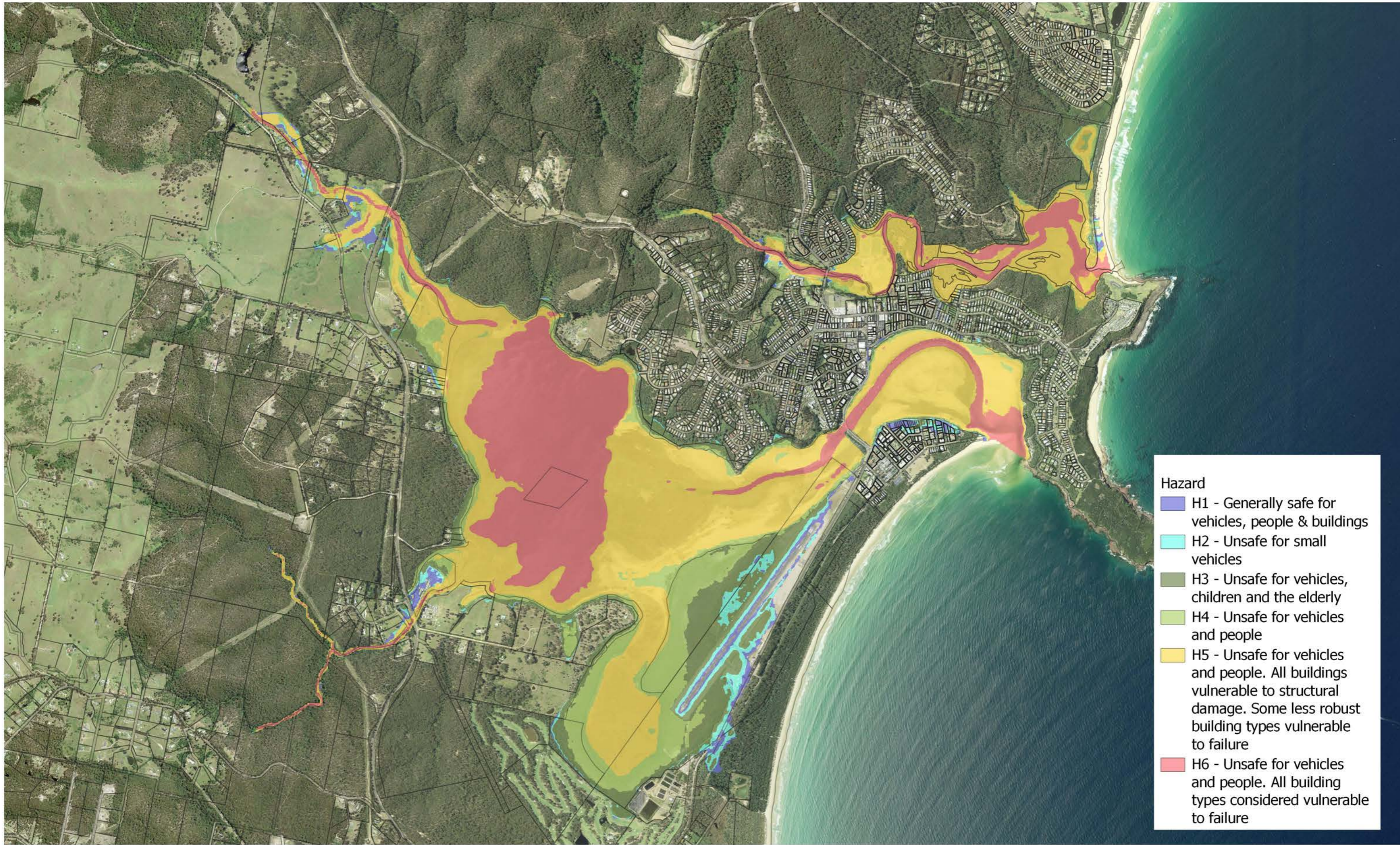


Scale : 1:25000@A3  
 Date : 16 September 2019  
 Revision : A  
 Created by : LRE  
 Coordinate System : MGA94 Z55

Legend  
 Cadastre



**G801-1  
 PMF Hazard**

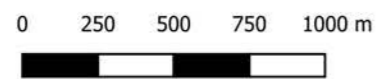


- Hazard**
- H1 - Generally safe for vehicles, people & buildings
  - H2 - Unsafe for small vehicles
  - H3 - Unsafe for vehicles, children and the elderly
  - H4 - Unsafe for vehicles and people
  - H5 - Unsafe for vehicles and people. All buildings vulnerable to structural damage. Some less robust building types vulnerable to failure
  - H6 - Unsafe for vehicles and people. All building types considered vulnerable to failure

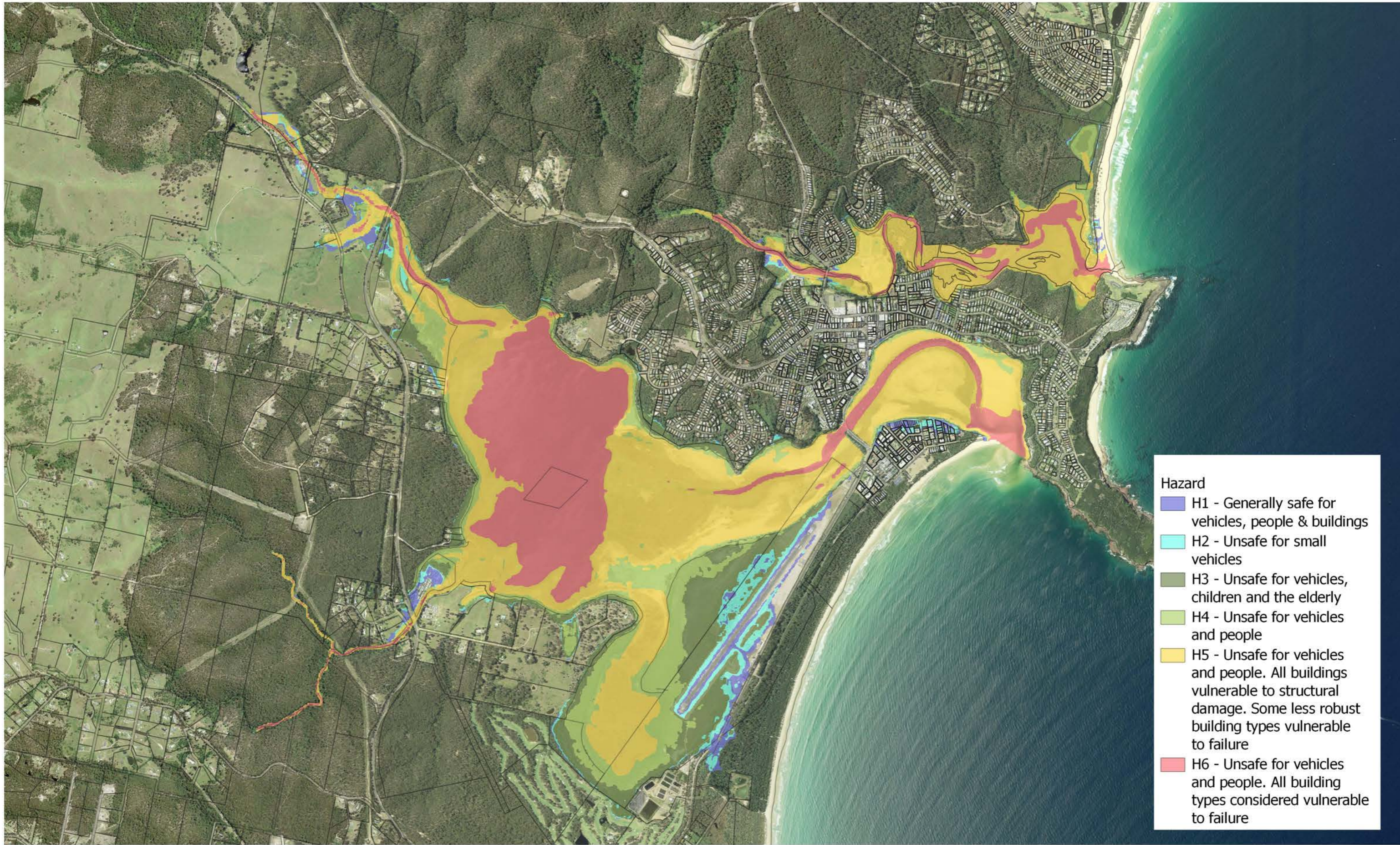


Scale : 1:25000@A3  
 Date : 16 September 2019  
 Revision : A  
 Created by : LRE  
 Coordinate System : MGA94 Z55

Legend  
 Cadastre



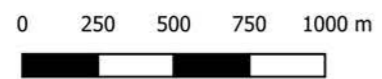
**G801-3**  
**0.5% AEP Hazard**



- Hazard**
- H1 - Generally safe for vehicles, people & buildings
  - H2 - Unsafe for small vehicles
  - H3 - Unsafe for vehicles, children and the elderly
  - H4 - Unsafe for vehicles and people
  - H5 - Unsafe for vehicles and people. All buildings vulnerable to structural damage. Some less robust building types vulnerable to failure
  - H6 - Unsafe for vehicles and people. All building types considered vulnerable to failure



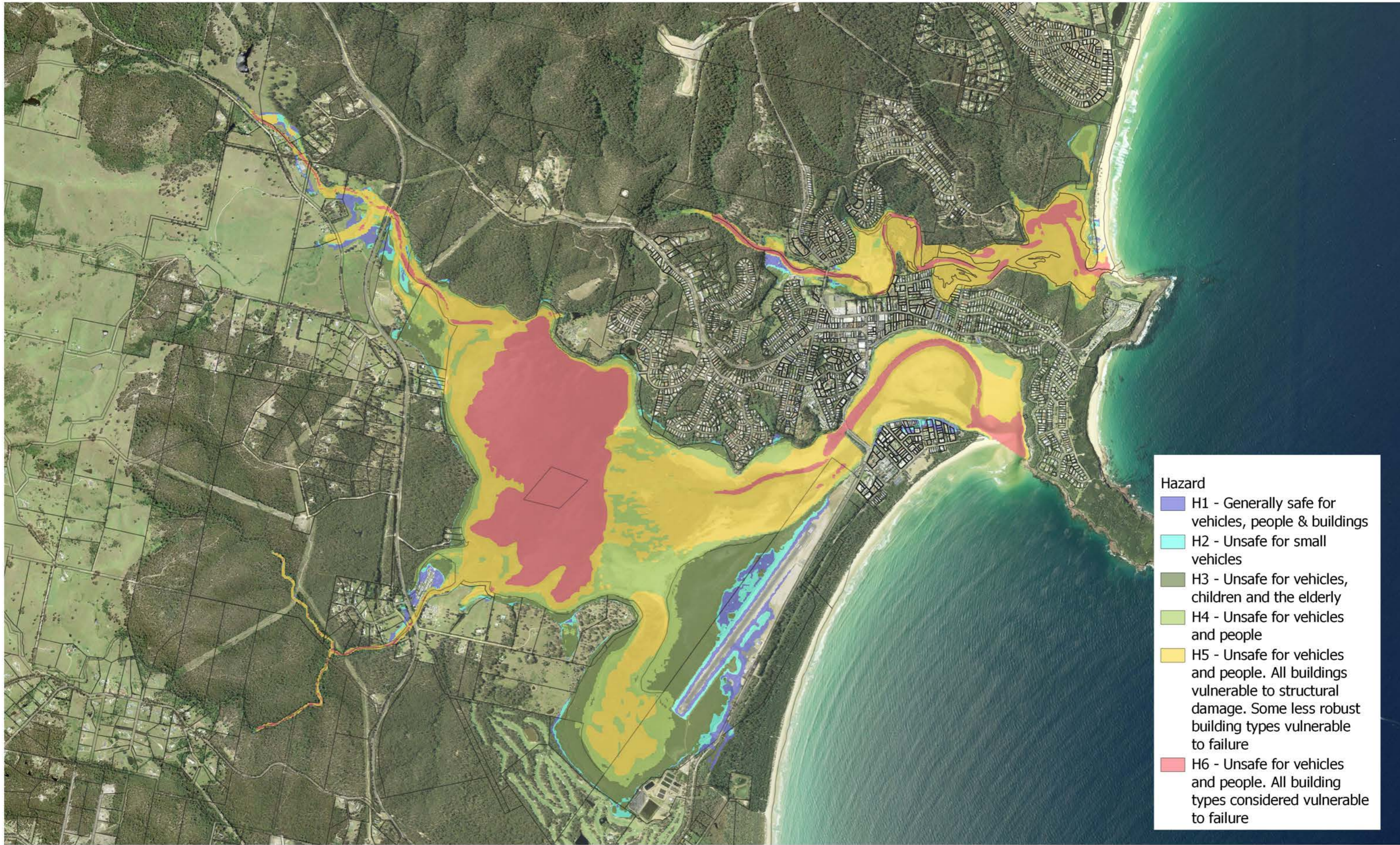
Scale : 1:25000@A3  
 Date : 16 September 2019  
 Revision : A  
 Created by : LRE  
 Coordinate System : MGA94 Z55



**Legend**  
 Cadastre



**G801-4**  
**1% AEP Hazard**

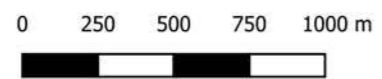


- Hazard**
- H1 - Generally safe for vehicles, people & buildings
  - H2 - Unsafe for small vehicles
  - H3 - Unsafe for vehicles, children and the elderly
  - H4 - Unsafe for vehicles and people
  - H5 - Unsafe for vehicles and people. All buildings vulnerable to structural damage. Some less robust building types vulnerable to failure
  - H6 - Unsafe for vehicles and people. All building types considered vulnerable to failure



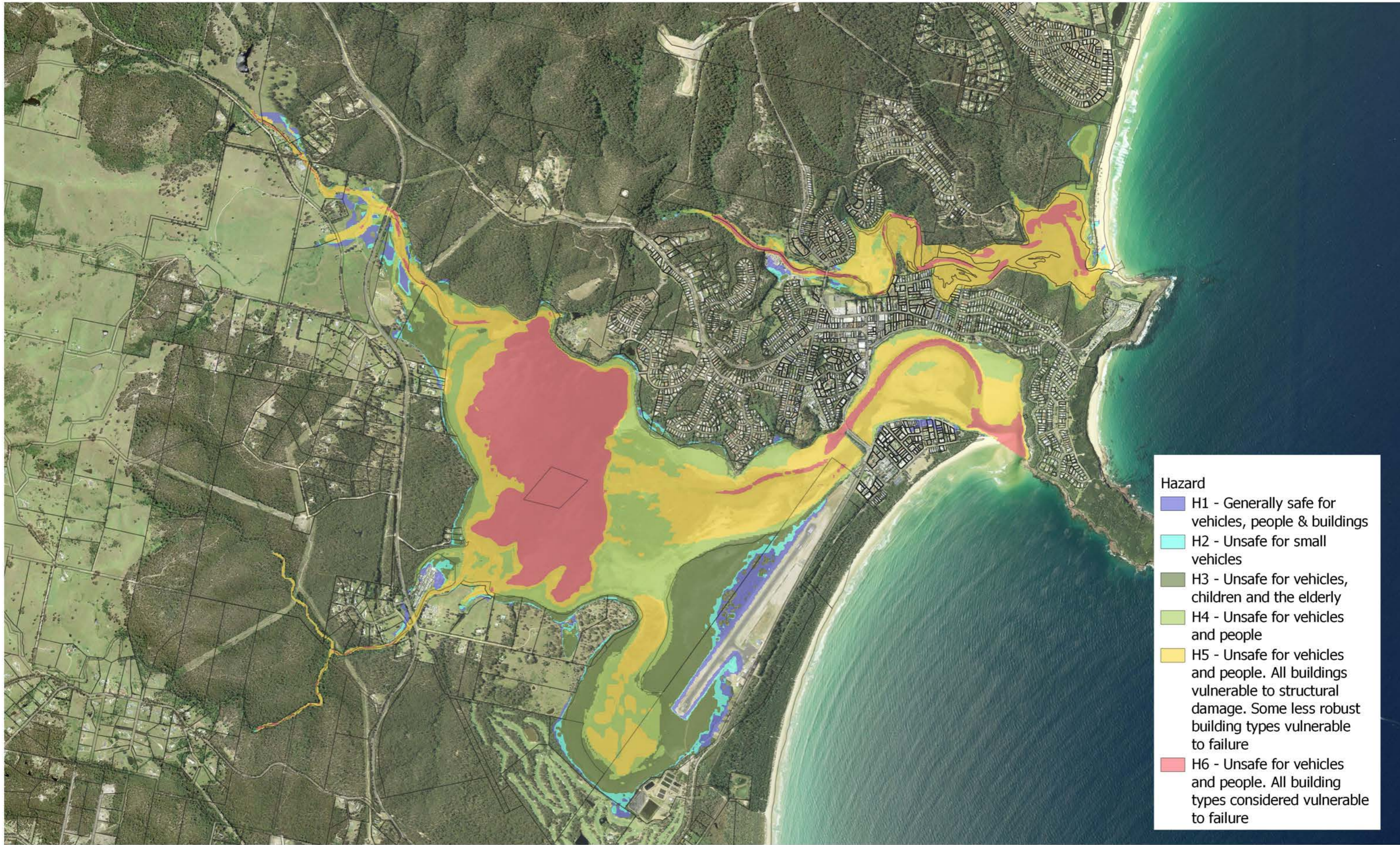
Scale : 1:25000@A3  
 Date : 16 September 2019  
 Revision : A  
 Created by : LRE  
 Coordinate System : MGA94 Z55

Legend  
 Cadastre



**G801-5**  
**2% AEP Hazard**



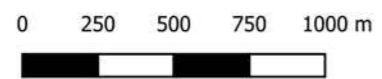


- Hazard**
- H1 - Generally safe for vehicles, people & buildings
  - H2 - Unsafe for small vehicles
  - H3 - Unsafe for vehicles, children and the elderly
  - H4 - Unsafe for vehicles and people
  - H5 - Unsafe for vehicles and people. All buildings vulnerable to structural damage. Some less robust building types vulnerable to failure
  - H6 - Unsafe for vehicles and people. All building types considered vulnerable to failure

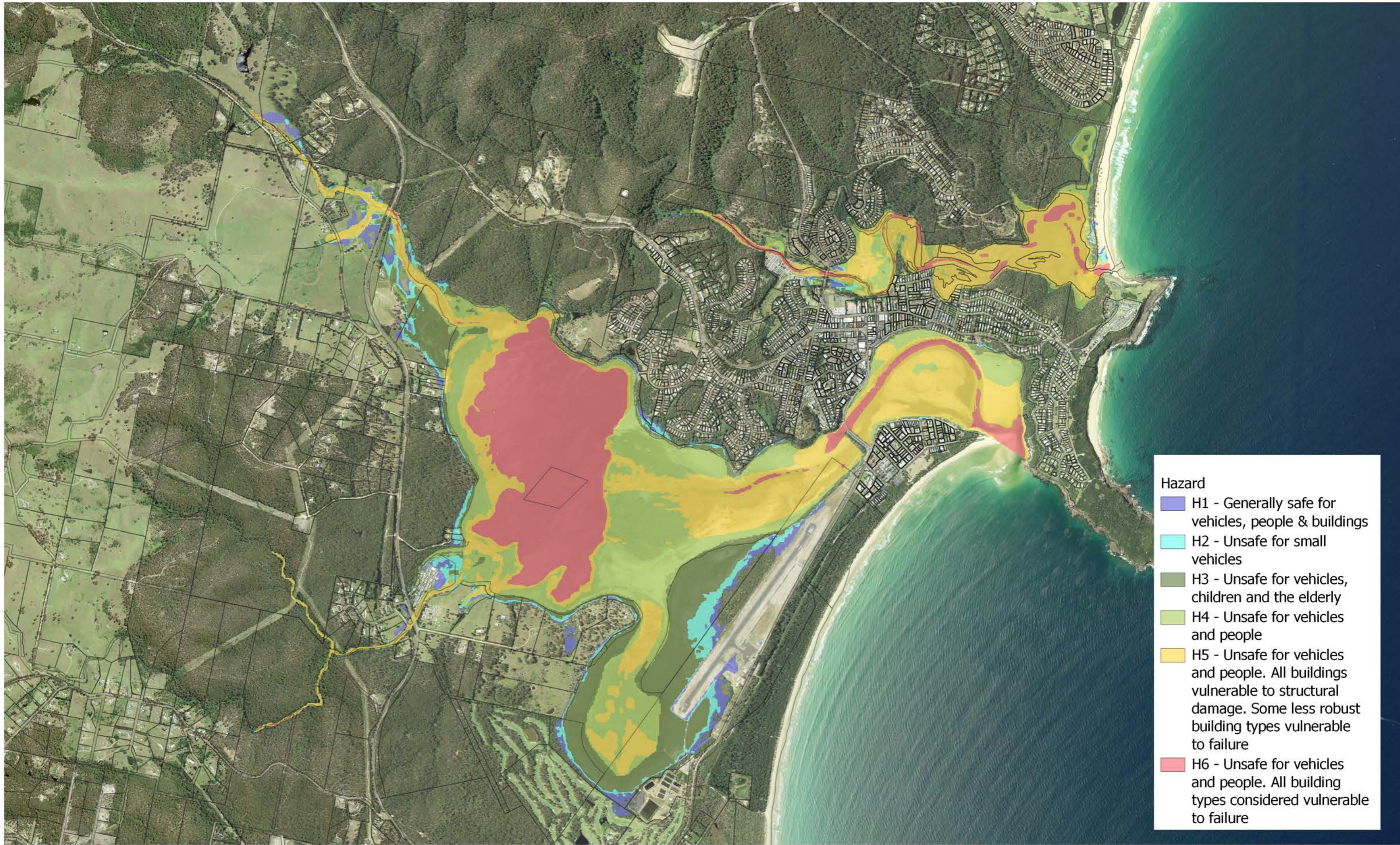


Scale : 1:25000@A3  
 Date : 16 September 2019  
 Revision : A  
 Created by : LRE  
 Coordinate System : MGA94 Z55

Legend  
 Cadastre



**G801-6**  
**5% AEP Hazard**

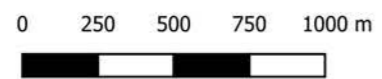


- Hazard**
- H1 - Generally safe for vehicles, people & buildings
  - H2 - Unsafe for small vehicles
  - H3 - Unsafe for vehicles, children and the elderly
  - H4 - Unsafe for vehicles and people
  - H5 - Unsafe for vehicles and people. All buildings vulnerable to structural damage. Some less robust building types vulnerable to failure
  - H6 - Unsafe for vehicles and people. All building types considered vulnerable to failure

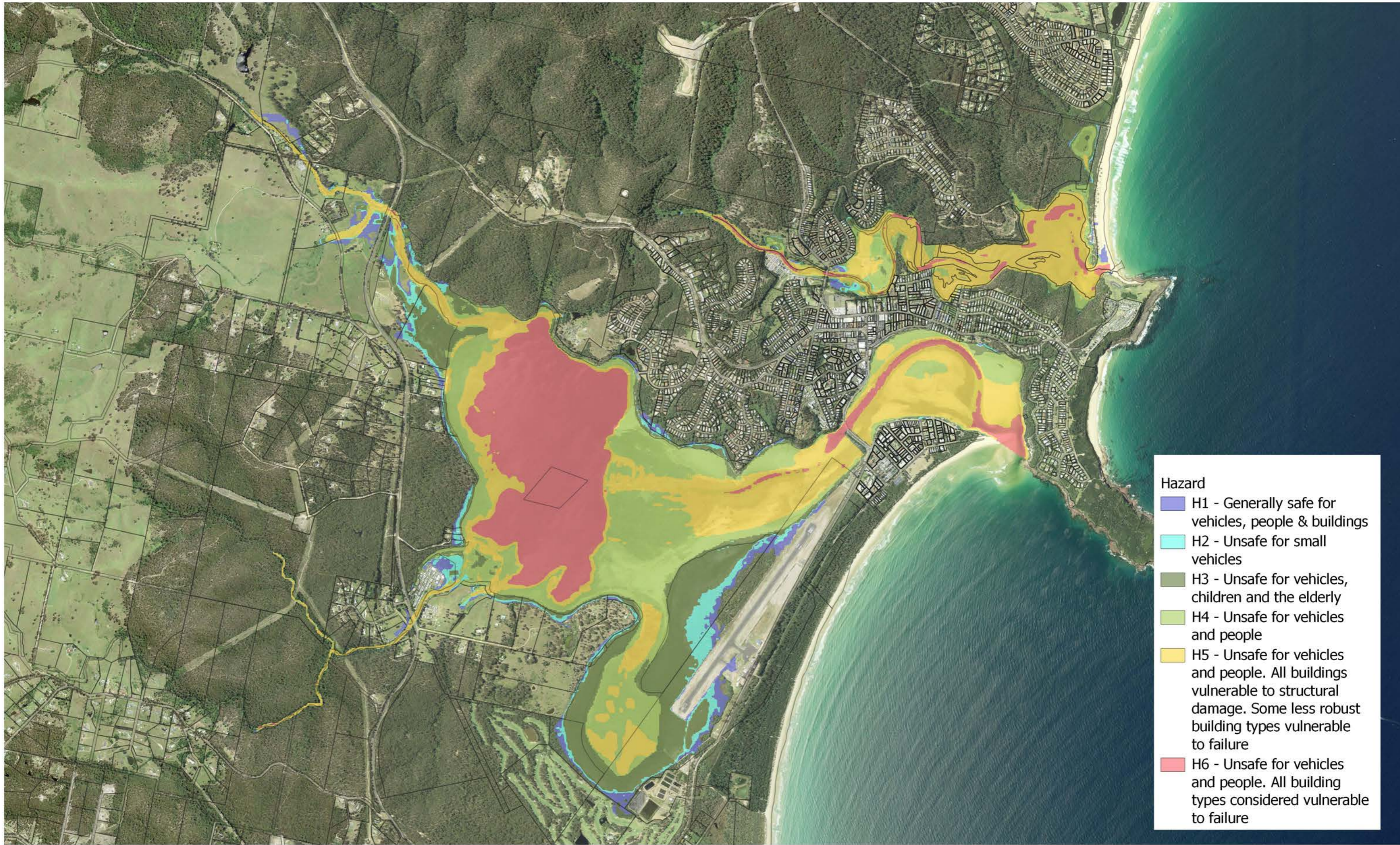


Scale : 1:25000@A3  
 Date : 16 September 2019  
 Revision : A  
 Created by : LRE  
 Coordinate System : MGA94 Z55

Legend  
 Cadastre



**G801-7**  
**10% AEP Hazard**

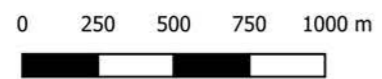


- Hazard**
- H1 - Generally safe for vehicles, people & buildings
  - H2 - Unsafe for small vehicles
  - H3 - Unsafe for vehicles, children and the elderly
  - H4 - Unsafe for vehicles and people
  - H5 - Unsafe for vehicles and people. All buildings vulnerable to structural damage. Some less robust building types vulnerable to failure
  - H6 - Unsafe for vehicles and people. All building types considered vulnerable to failure

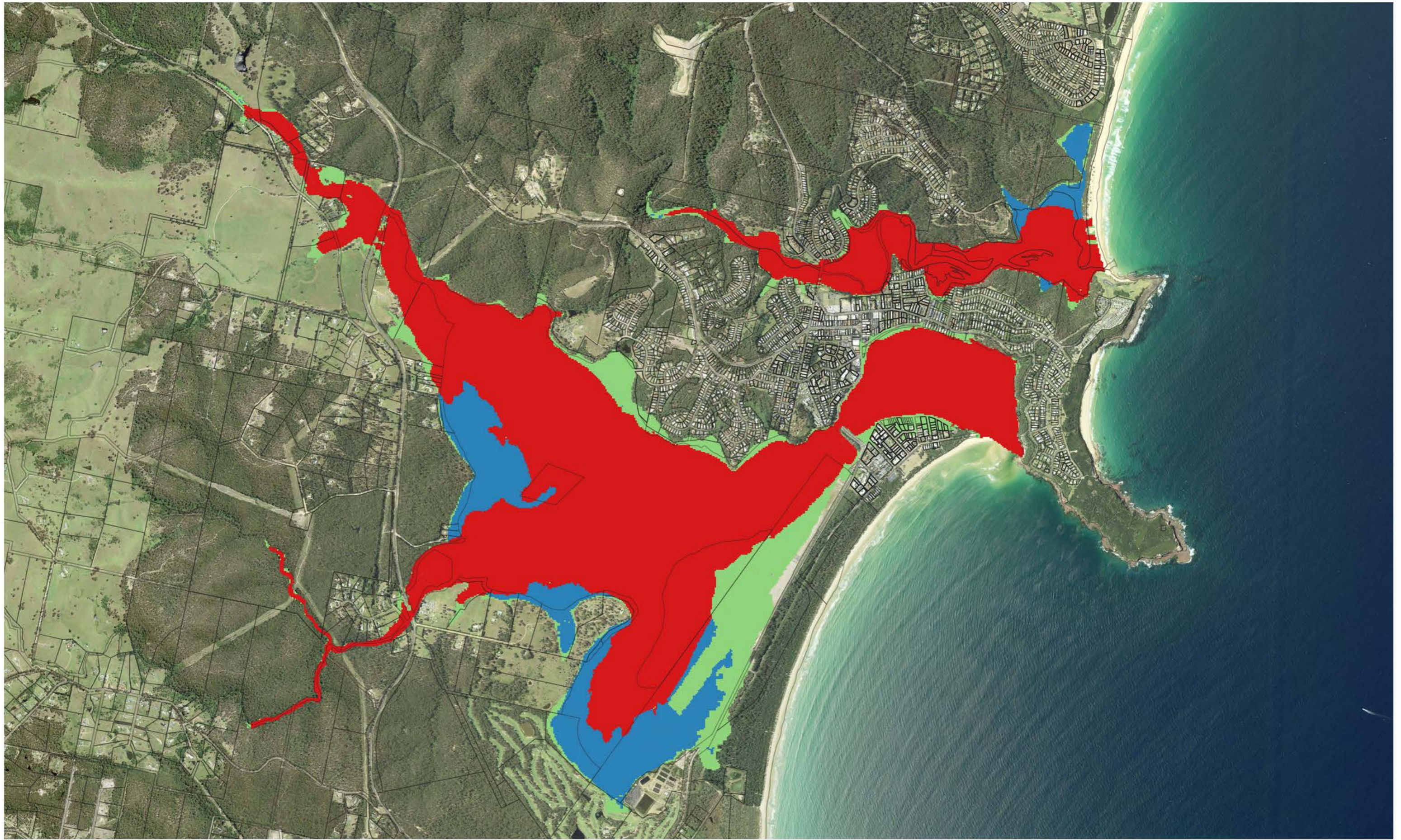


Scale : 1:25000@A3  
 Date : 16 September 2019  
 Revision : A  
 Created by : LRE  
 Coordinate System : MGA94 Z55

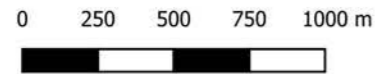
Legend  
 Cadastre



**G801-8**  
**5% AEP Hazard**



Scale : 1:25000@A3  
Date : 16 September 2019  
Revision : A  
Created by : LRE  
Coordinate System : MGA94 Z55

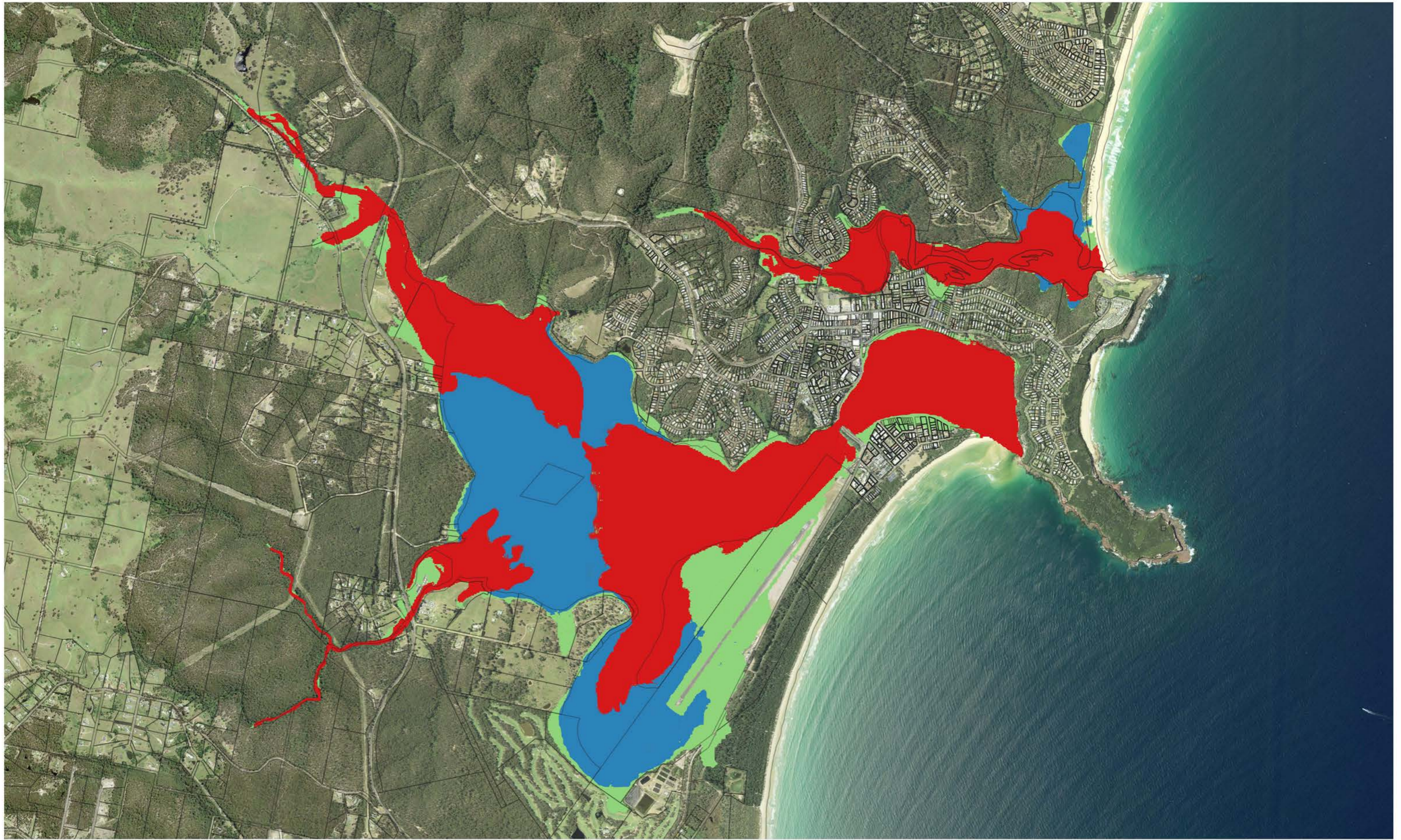


Legend

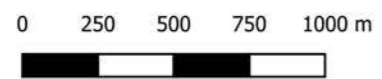
- Cadastre
- Flood Function
  - Floodway
  - Storage
  - Fringe



G802-1  
PMF Flood Function



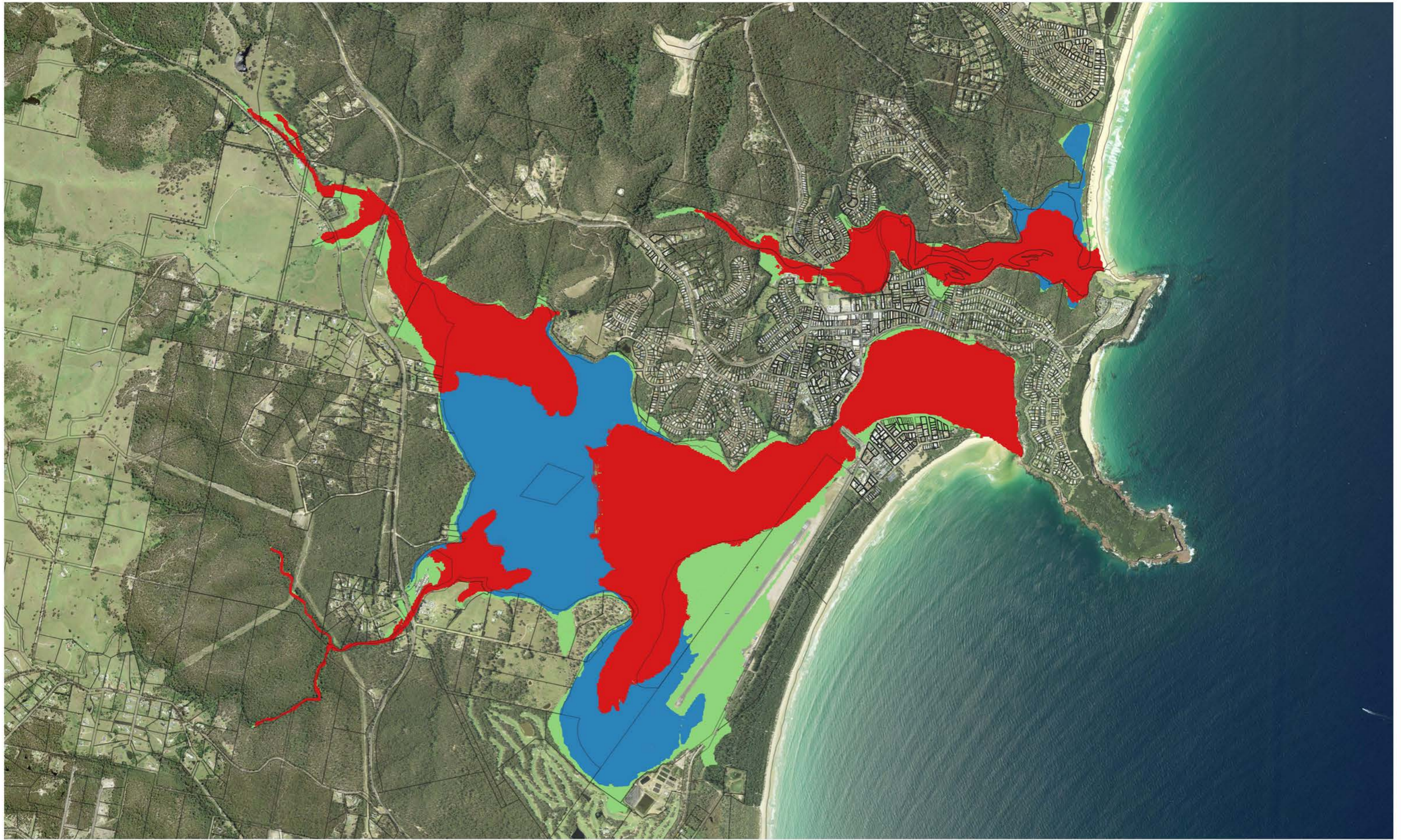
Scale : 1:25000@A3  
Date : 16 September 2019  
Revision : A  
Created by : LRE  
Coordinate System : MGA94 Z55



- Legend
- Cadastre
  - Flood Function
    - Floodway
    - Storage
    - Fringe



G802-3  
0.5% AEP Flood Function



Scale : 1:25000@A3  
Date : 16 September 2019  
Revision : A  
Created by : LRE  
Coordinate System : MGA94 Z55

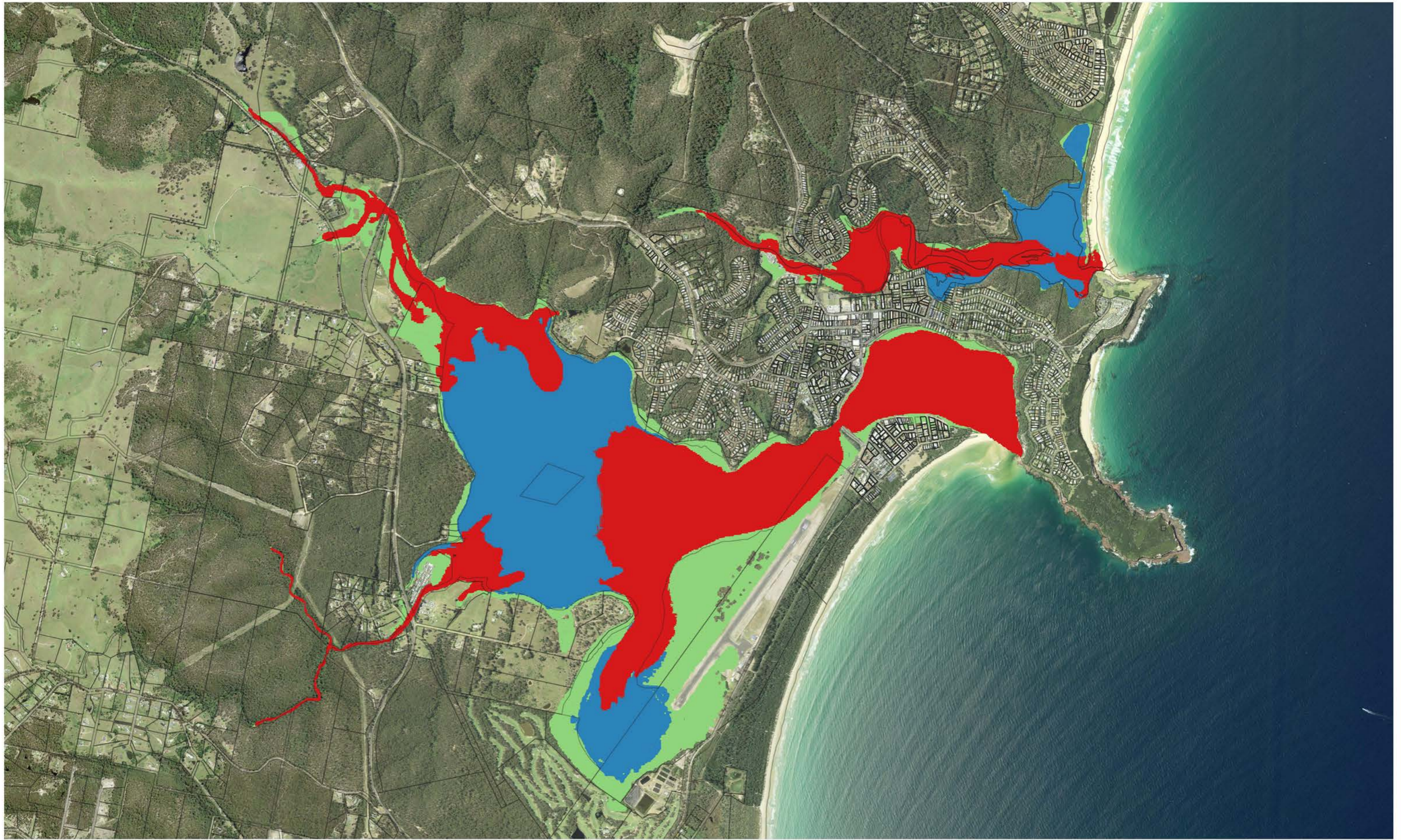


Legend

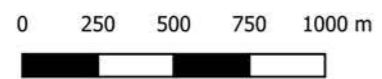
- Cadastre
- Flood Function
  - Floodway
  - Storage
  - Fringe



G802-4  
1% AEP Flood Function



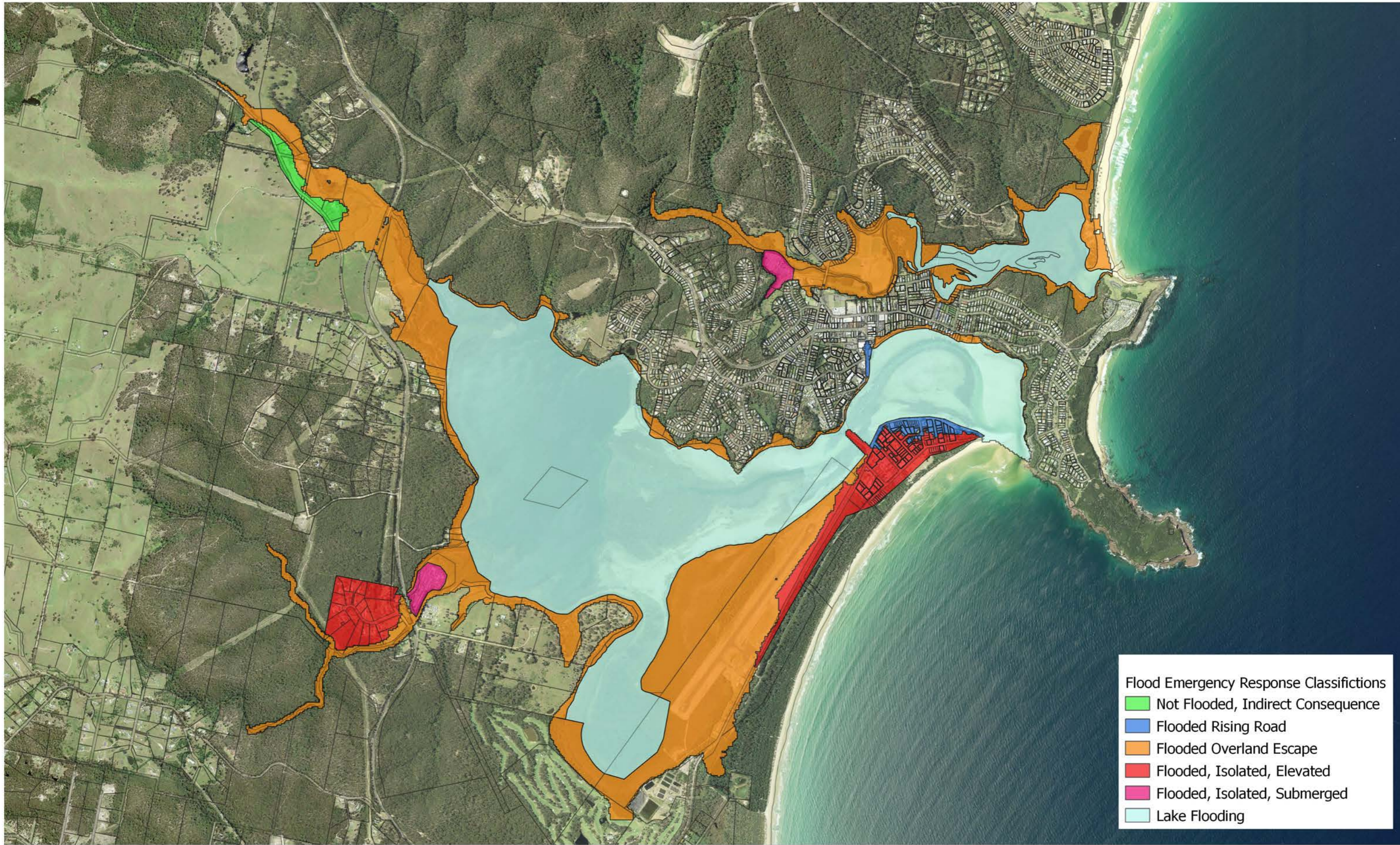
Scale : 1:25000@A3  
Date : 16 September 2019  
Revision : A  
Created by : LRE  
Coordinate System : MGA94 Z55



- Legend
- Cadastre
  - Flood Function
    - Floodway
    - Storage
    - Fringe



G802-5  
20% AEP Flood Function

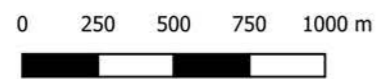


**Flood Emergency Response Classifications**

- Not Flooded, Indirect Consequence
- Flooded Rising Road
- Flooded Overland Escape
- Flooded, Isolated, Elevated
- Flooded, Isolated, Submerged
- Lake Flooding



Scale : 1:25000@A3  
 Date : 16 September 2019  
 Revision : A  
 Created by : LRE  
 Coordinate System : MGA94 Z55

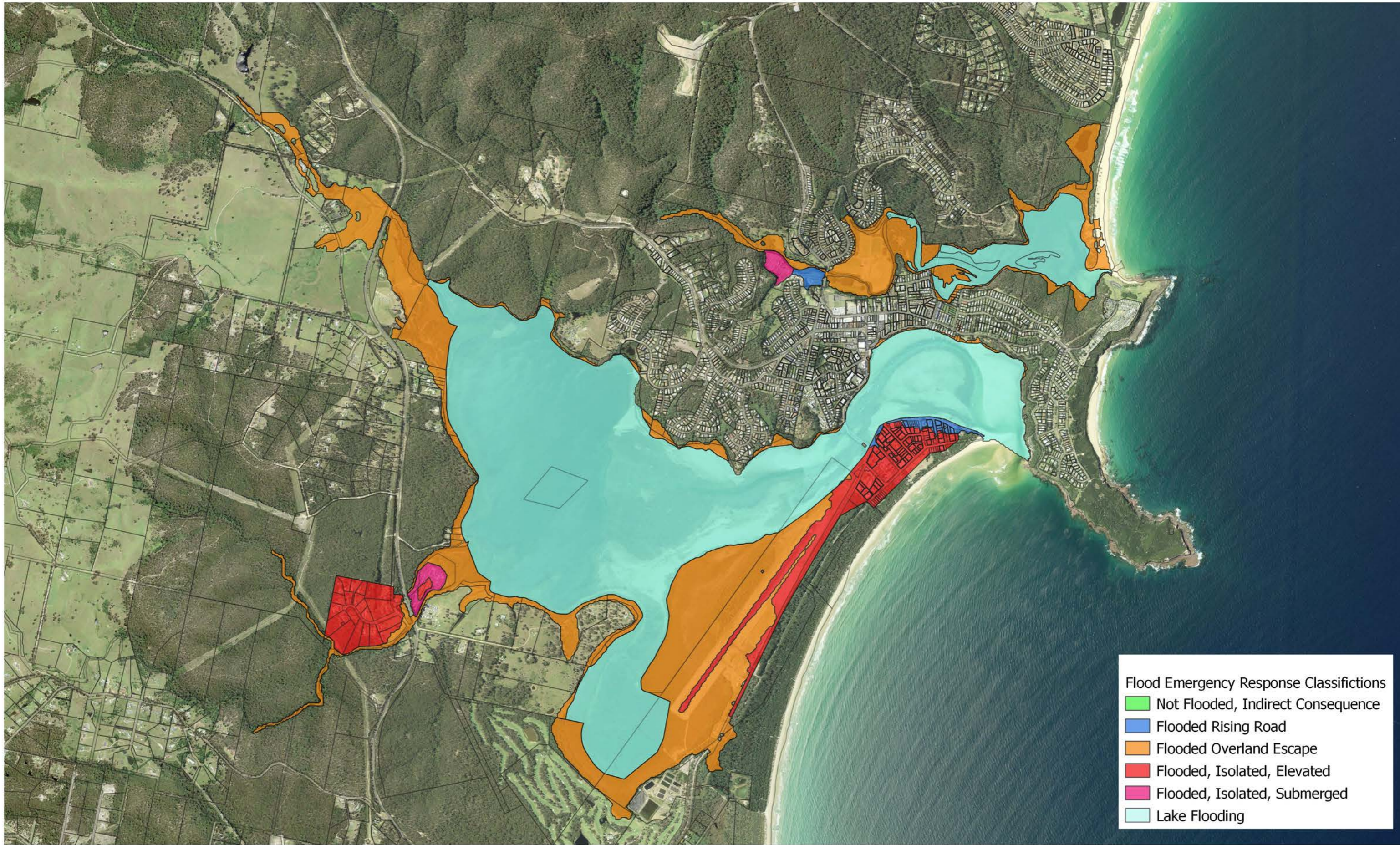


Legend  
 Cadastre



**G803-1**  
**PMF Flood Emergency Response Classifications**





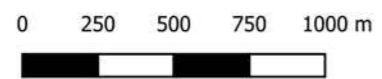
**Flood Emergency Response Classifications**

- Not Flooded, Indirect Consequence
- Flooded Rising Road
- Flooded Overland Escape
- Flooded, Isolated, Elevated
- Flooded, Isolated, Submerged
- Lake Flooding

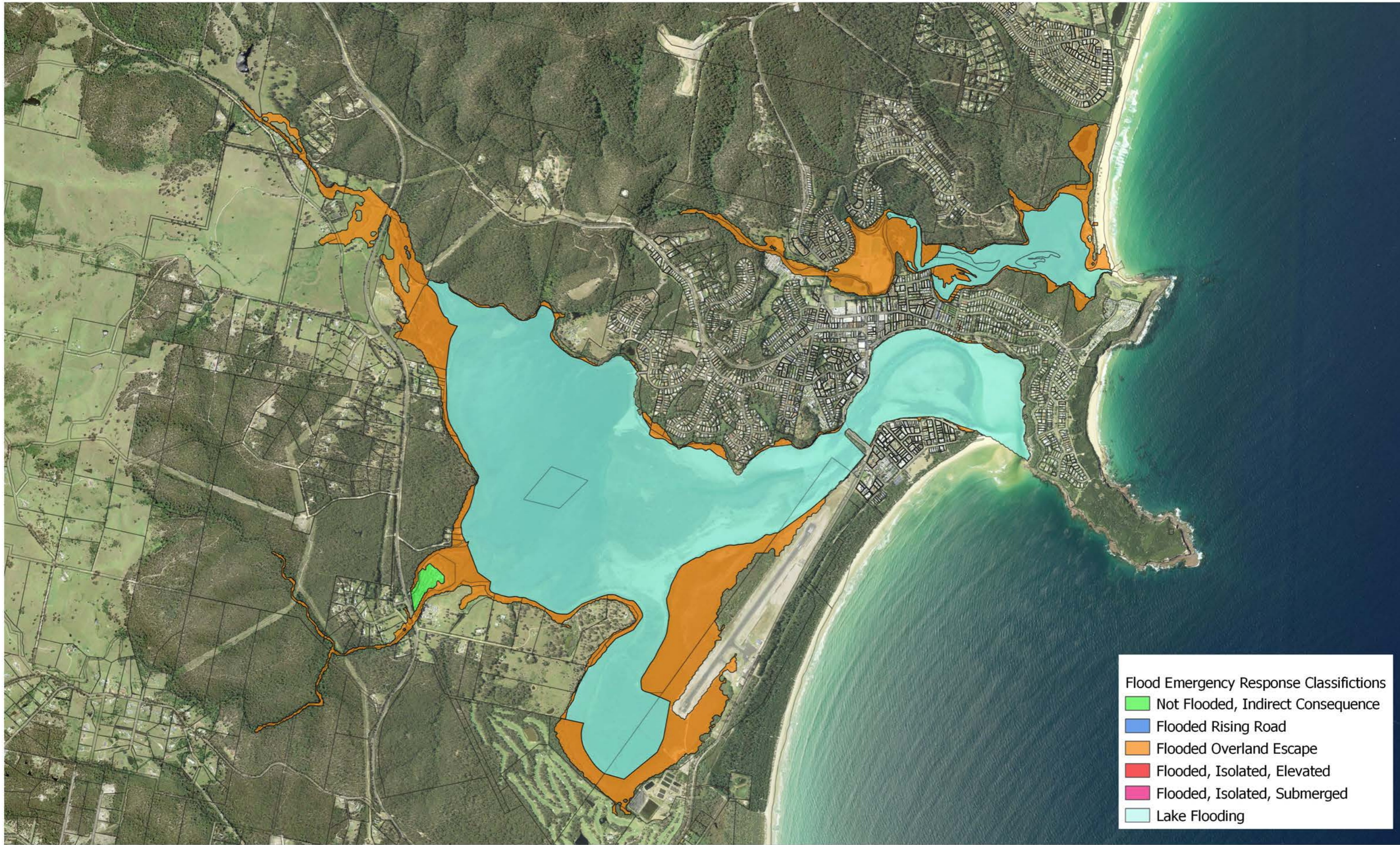


Scale : 1:25000@A3  
 Date : 16 September 2019  
 Revision : A  
 Created by : LRE  
 Coordinate System : MGA94 Z55

Legend  
 Cadastre



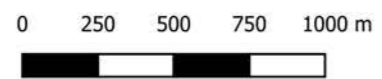
**G803-2**  
**1% AEP Flood Emergency Response Classifications**



- Flood Emergency Response Classifications**
- Not Flooded, Indirect Consequence
  - Flooded Rising Road
  - Flooded Overland Escape
  - Flooded, Isolated, Elevated
  - Flooded, Isolated, Submerged
  - Lake Flooding



Scale : 1:25000@A3  
 Date : 16 September 2019  
 Revision : A  
 Created by : LRE  
 Coordinate System : MGA94 Z55



Legend  
 Cadastre



**G803-3**  
**20% AEP Flood Emergency Response Classifications**



[ID]	Road Name	20yr	100yr	PMF
1	Millingandi Rd	0	0	1.3
2	Millingandi Rd	0.91	1.06	1.4
3	Princes Hwy*	0	0	0.32
4	Berrambool Dr	0	0	0.26
5	Berrambool Dr	0	0	0.39
6	Sapphire Coast Dr	0	0	0.35
7	Market St	0	0.03	0.41
8	Beach St	0	0	0.41
9	Beach St	0	0.09	0.34
10	Beach St	0	0	0.57
11	Beach St	0	0	0.25
12	Arthur Kaine Dr	0	0	0.15
13	Elizabeth St	0	0.26	0.45
14	Marine Pde	0	0	0.32
15	Chapman Ave	0	0	0.48
16	Burton Ave	0.29	0.57	0.76
17	Calendo Ct	0.21	0.53	0.68
18	Fishpen Rd	0.22	0.49	0.68
19	Princes Highway	0	0	0
20	Arthur Kaine Dr	0	0	0.16
21	Arthur Kaine Dr	0	0.3	0.71

\* The [3] Princes Highway has not been sampled above the bridge, due to an inaccurate reading as a result of Boggy Creek flooding. It has been sampled approximately 150m south of the bridge, adjacent to the northbound road shoulder.

Note that a depth of 0 in any event indicates that the road is not flooded.

Scale : 1:25000@A3  
 Date : 20 November 2019  
 Revision : A  
 Created by : AXS  
 Coordinate System : MGA94 Z55

Legend













- Key Infrastructure
- Overtopped Roads (with ID)
- PMF Extent

G804

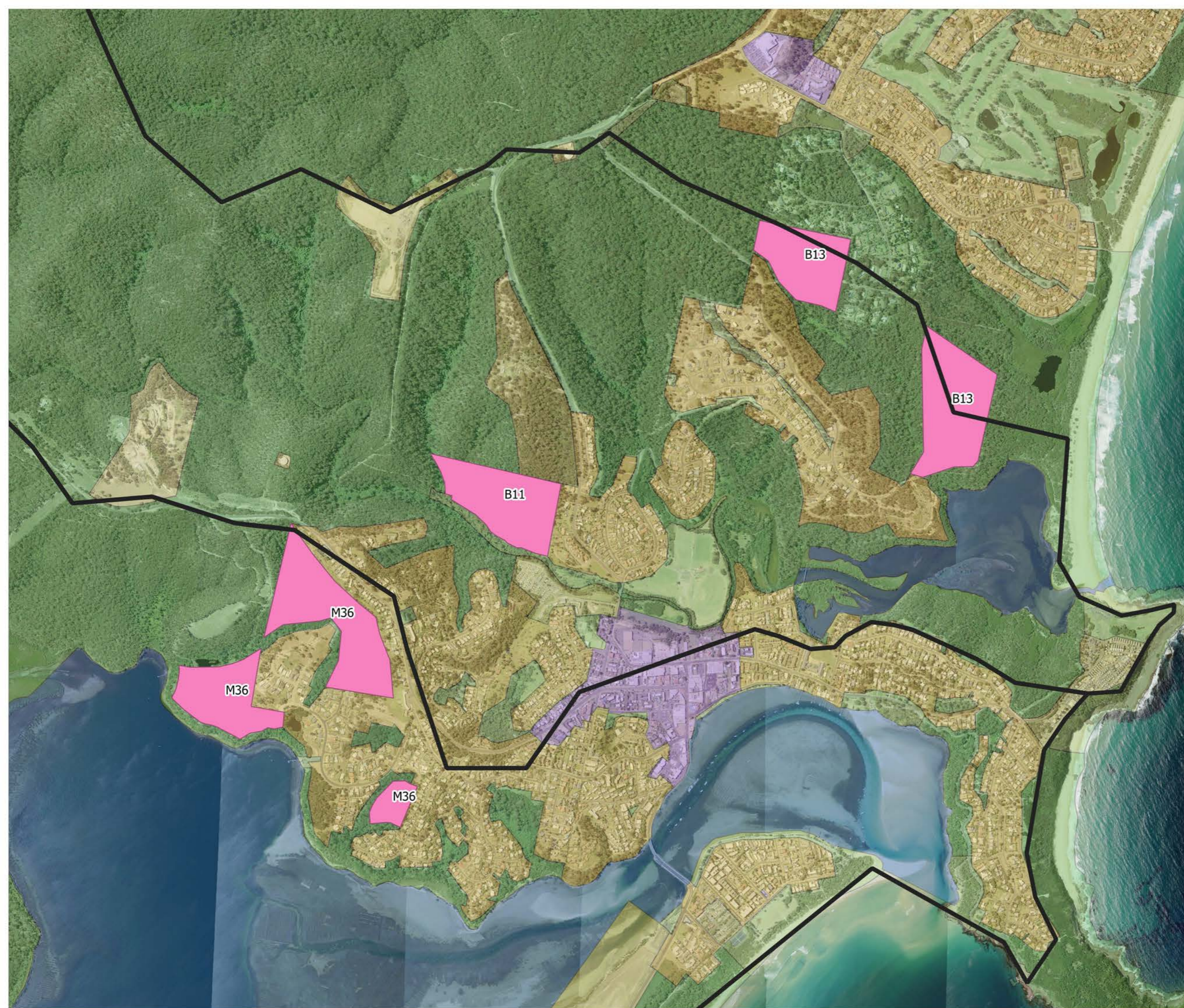
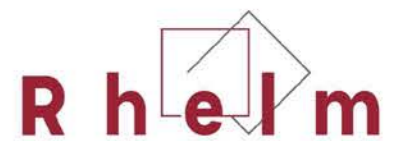


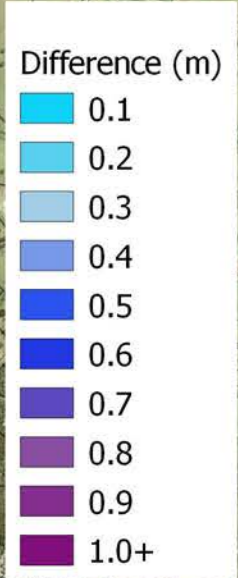
**Figure G805**

**Future Development Areas**

-  Catchment Boundary
-  Possible development areas (noting RAFTS catchment)
  
- Current Zoning
-  Business
-  Environmental
-  Residential
-  Recreation
-  Primary Production
-  Rural Landscape
-  Forestry
-  Primary Producton small lots
-  Village
-  Water

Scale : 1:4000@A3  
Date : 28 May 2017  
Revision :  
Created by : RST  
Coordinate System : MGA 56

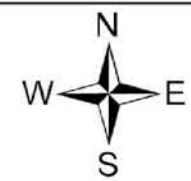
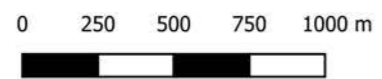




Scale : 1:25000@A3  
 Date : 16 September 2019  
 Revision : A  
 Created by : LRE  
 Coordinate System : MGA94 Z55

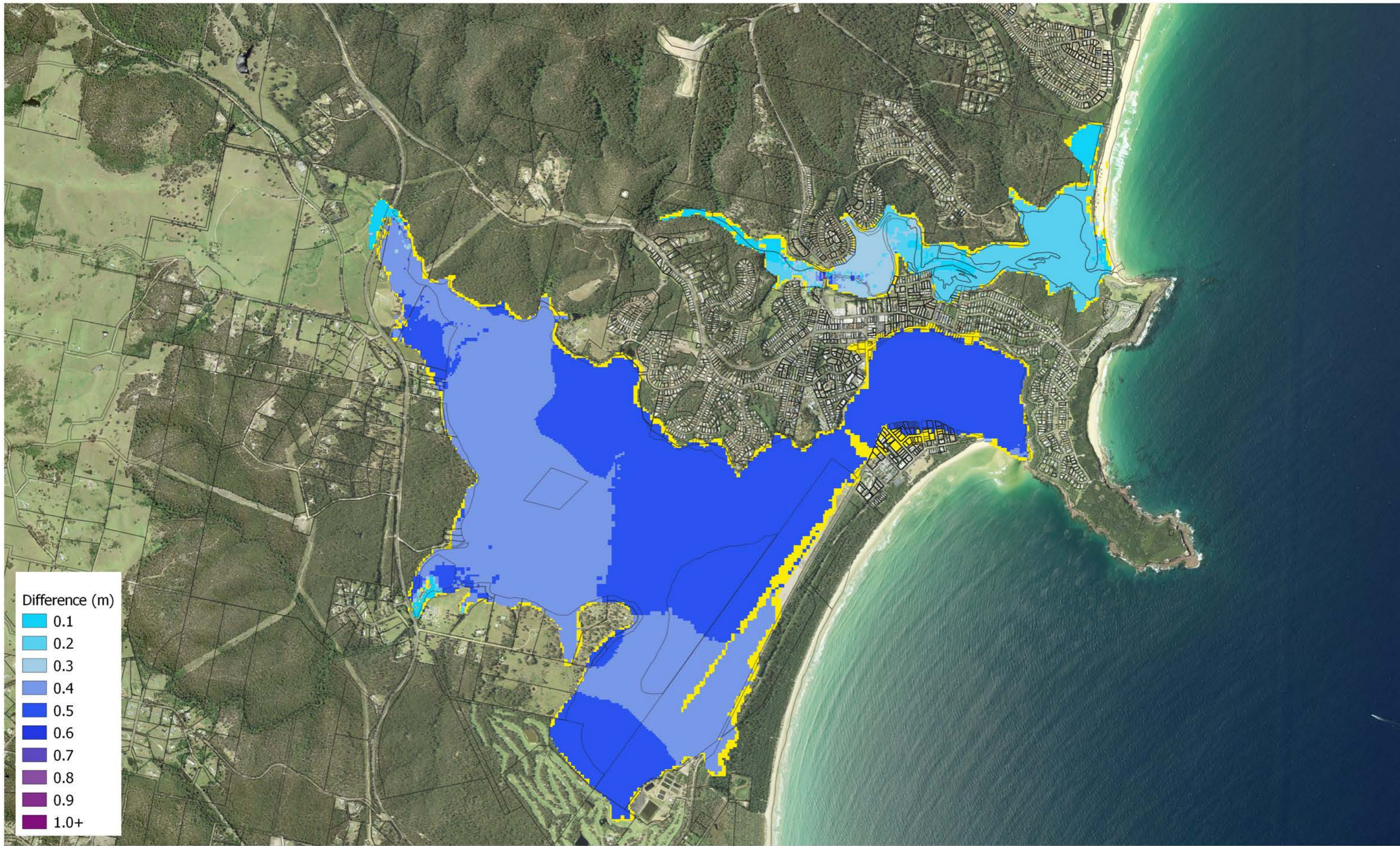
Legend

- Cadastre
- Newly flooded areas under climate change scenario



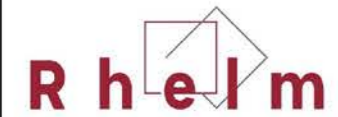
G806-1  
 1% AEP 0.4m SLR Impacts





Difference (m)

- 0.1
- 0.2
- 0.3
- 0.4
- 0.5
- 0.6
- 0.7
- 0.8
- 0.9
- 1.0+



Scale : 1:25000@A3  
 Date : 16 September 2019  
 Revision : A  
 Created by : LRE  
 Coordinate System : MGA94 Z55

0 250 500 750 1000 m



Legend

- Cadastre
- Newly flooded areas under climate change scenario

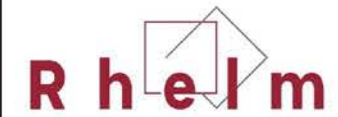


G806-2  
 0.5% AEP 0.4m SLR Impacts



Difference (m)

- 0.1
- 0.2
- 0.3
- 0.4
- 0.5
- 0.6
- 0.7
- 0.8
- 0.9
- 1.0+



Scale : 1:25000@A3  
 Date : 16 September 2019  
 Revision : A  
 Created by : LRE  
 Coordinate System : MGA94 Z55

0 250 500 750 1000 m

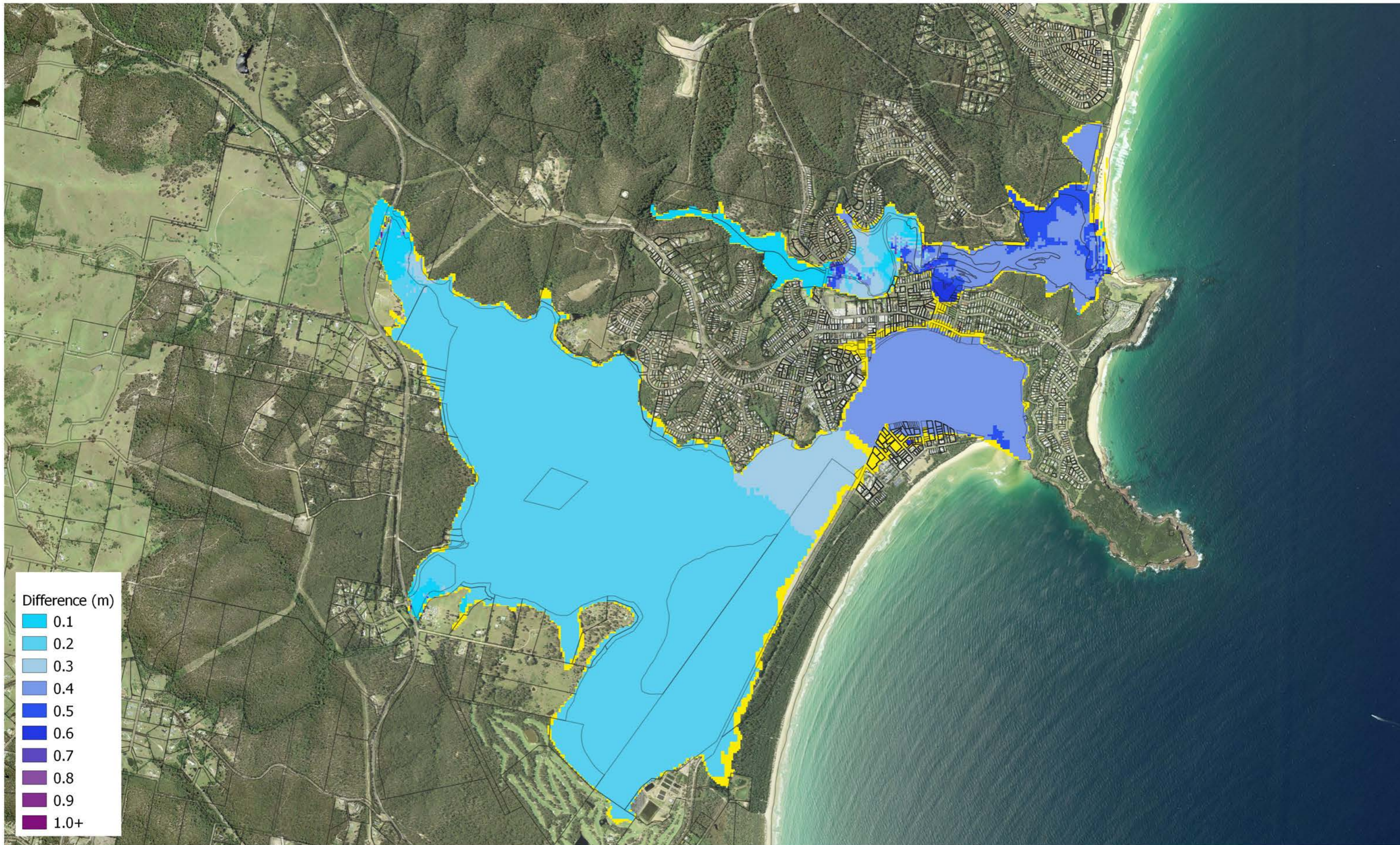


Legend

- Cadastre
- Newly flooded areas under climate change scenario



G806-3  
 0.2% AEP 0.4m SLR Impacts



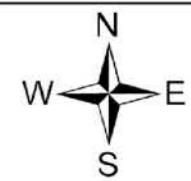
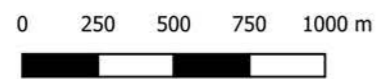
Difference (m)

- 0.1
- 0.2
- 0.3
- 0.4
- 0.5
- 0.6
- 0.7
- 0.8
- 0.9
- 1.0+

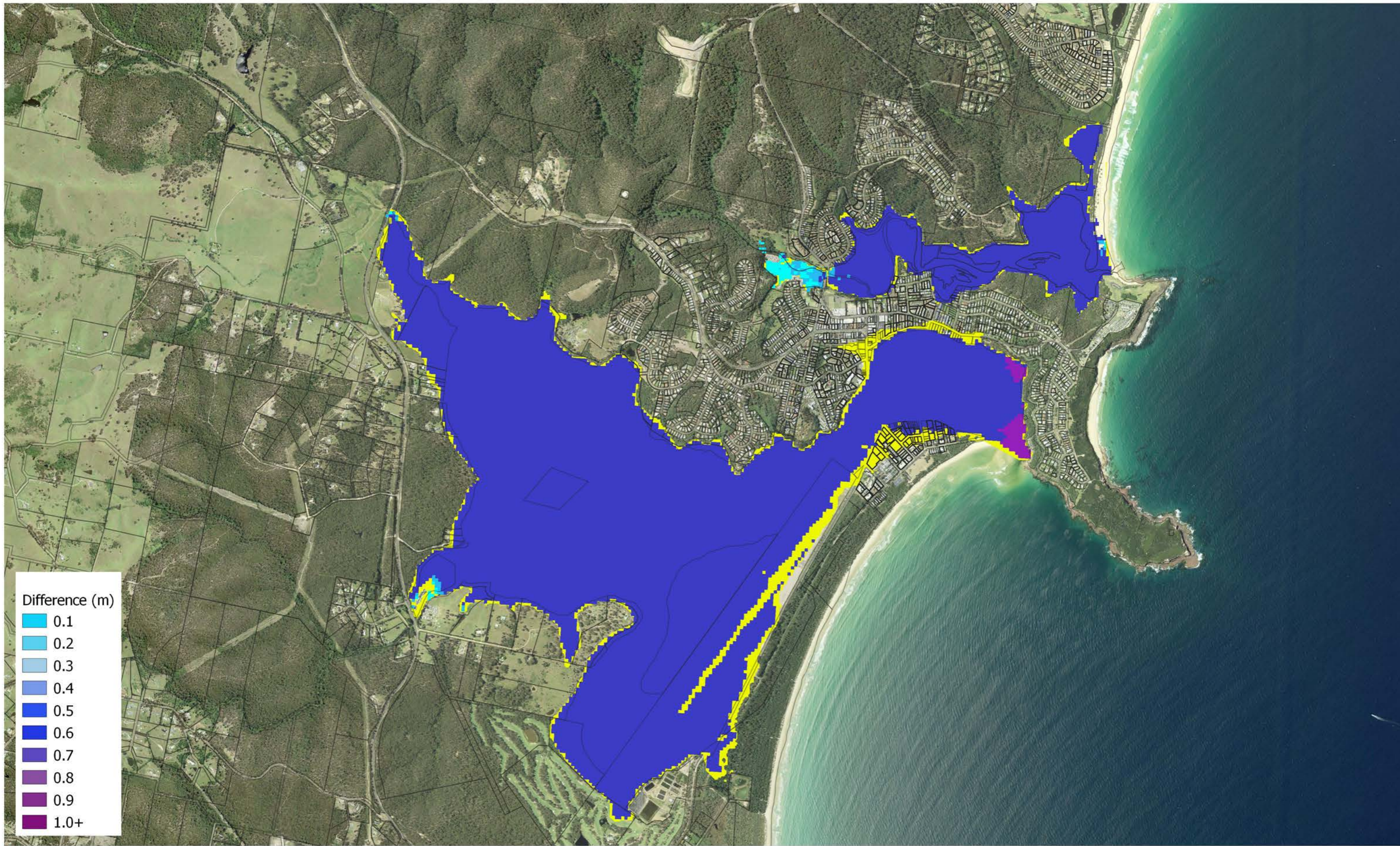
Legend

- Cadastre
- Newly flooded areas under climate change scenario

Scale : 1:25000@A3  
 Date : 16 September 2019  
 Revision : A  
 Created by : LRE  
 Coordinate System : MGA94 Z55

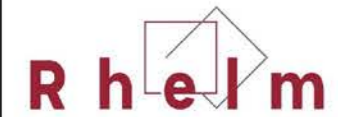






Difference (m)

- 0.1
- 0.2
- 0.3
- 0.4
- 0.5
- 0.6
- 0.7
- 0.8
- 0.9
- 1.0+



Scale : 1:25000@A3  
 Date : 16 September 2019  
 Revision : A  
 Created by : LRE  
 Coordinate System : MGA94 Z55

0 250 500 750 1000 m



Legend

- Cadastre
- Newly flooded areas under climate change scenario



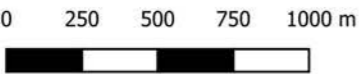
**G806-5**  
**1% AEP 0.9m SLR Impacts**



- Difference (m)
- 0.1
  - 0.2
  - 0.3
  - 0.4
  - 0.5
  - 0.6
  - 0.7
  - 0.8
  - 0.9
  - 1.0+



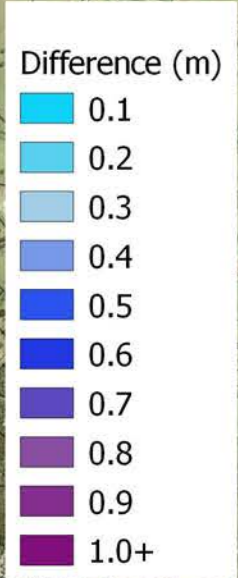
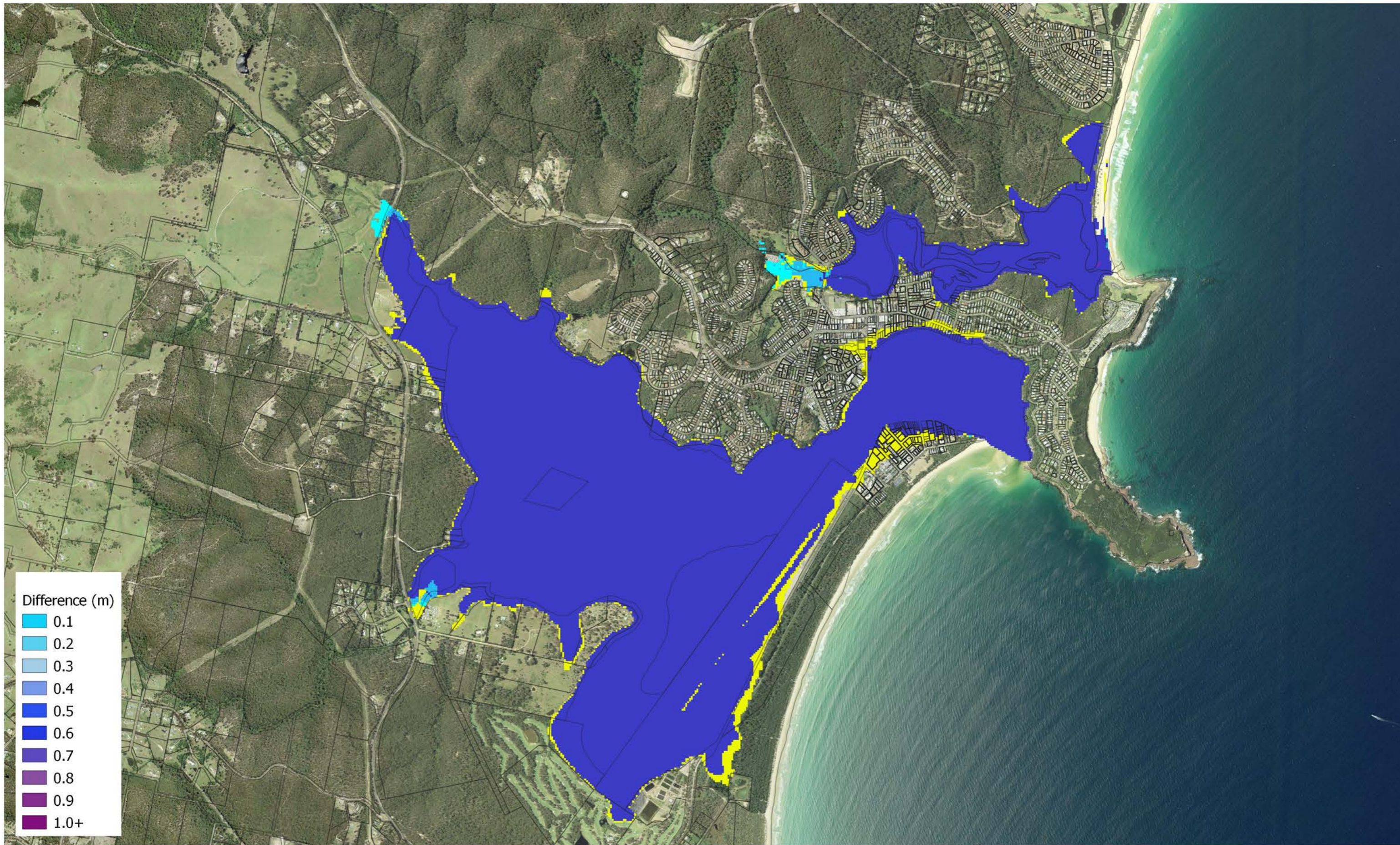
Scale : 1:25000@A3  
 Date : 16 September 2019  
 Revision : A  
 Created by : LRE  
 Coordinate System : MGA94 Z55



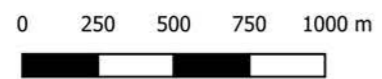
- Legend
- Cadastre
  - Newly flooded areas under climate change scenario



G806-6  
 0.5% AEP 0.9m SLR Impacts



Scale : 1:25000@A3  
 Date : 16 September 2019  
 Revision : A  
 Created by : LRE  
 Coordinate System : MGA94 Z55



Legend

- Cadastre
- Newly flooded areas under climate change scenario

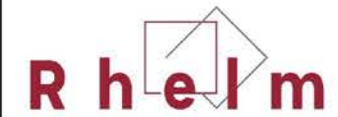


G806-7  
 0.2% AEP 0.9m SLR Impacts



Difference (m)

- 0.1
- 0.2
- 0.3
- 0.4
- 0.5
- 0.6
- 0.7
- 0.8
- 0.9
- 1.0+



Scale : 1:25000@A3  
 Date : 16 September 2019  
 Revision : A  
 Created by : LRE  
 Coordinate System : MGA94 Z55

0 250 500 750 1000 m



Legend

- Cadastre
- Newly flooded areas under climate change scenario

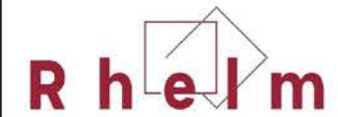


G806-8  
 PMF 0.9m SLR Impacts



Difference (m)

- 0.1
- 0.2
- 0.3
- 0.4
- 0.5
- 0.6
- 0.7
- 0.8
- 0.9
- 1.0+



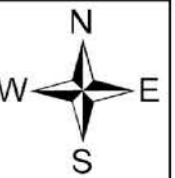
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 Date : 16 September 2019  
 Revision : A  
 Created by : LRE  
 Coordinate System : MGA94 Z55

0 250 500 750 1000 m



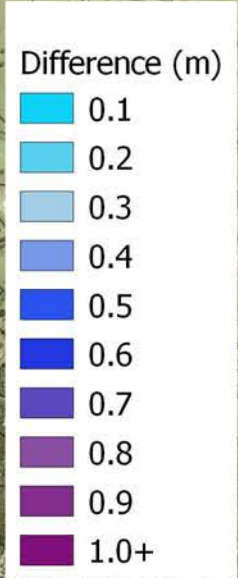
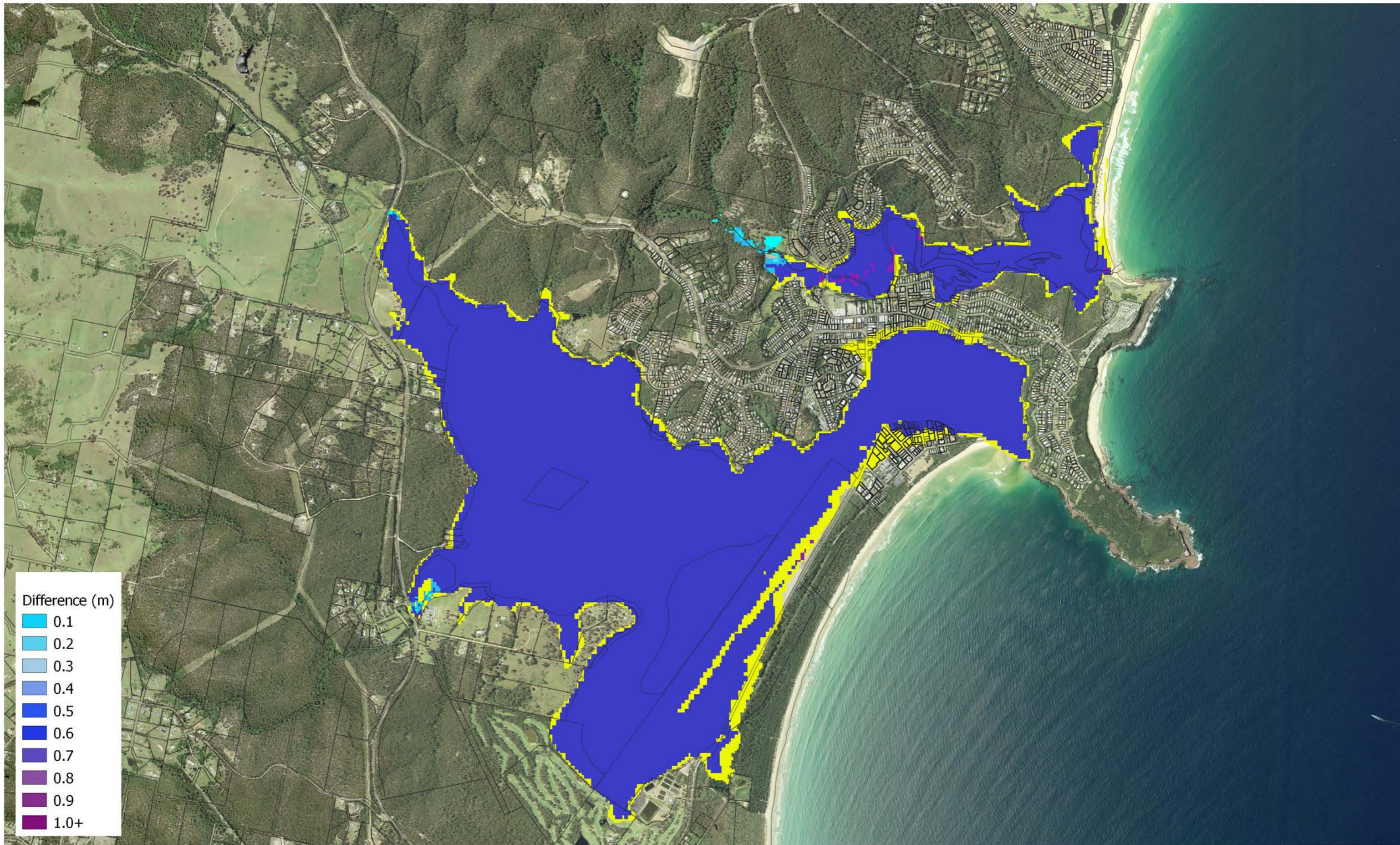
Legend

- Cadastre
- Newly flooded areas under climate change scenario

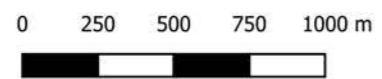


G806-9

1% AEP 0.4m SLR 10% Rainfall



Scale : 1:25000@A3  
 Date : 16 September 2019  
 Revision : A  
 Created by : LRE  
 Coordinate System : MGA94 Z55

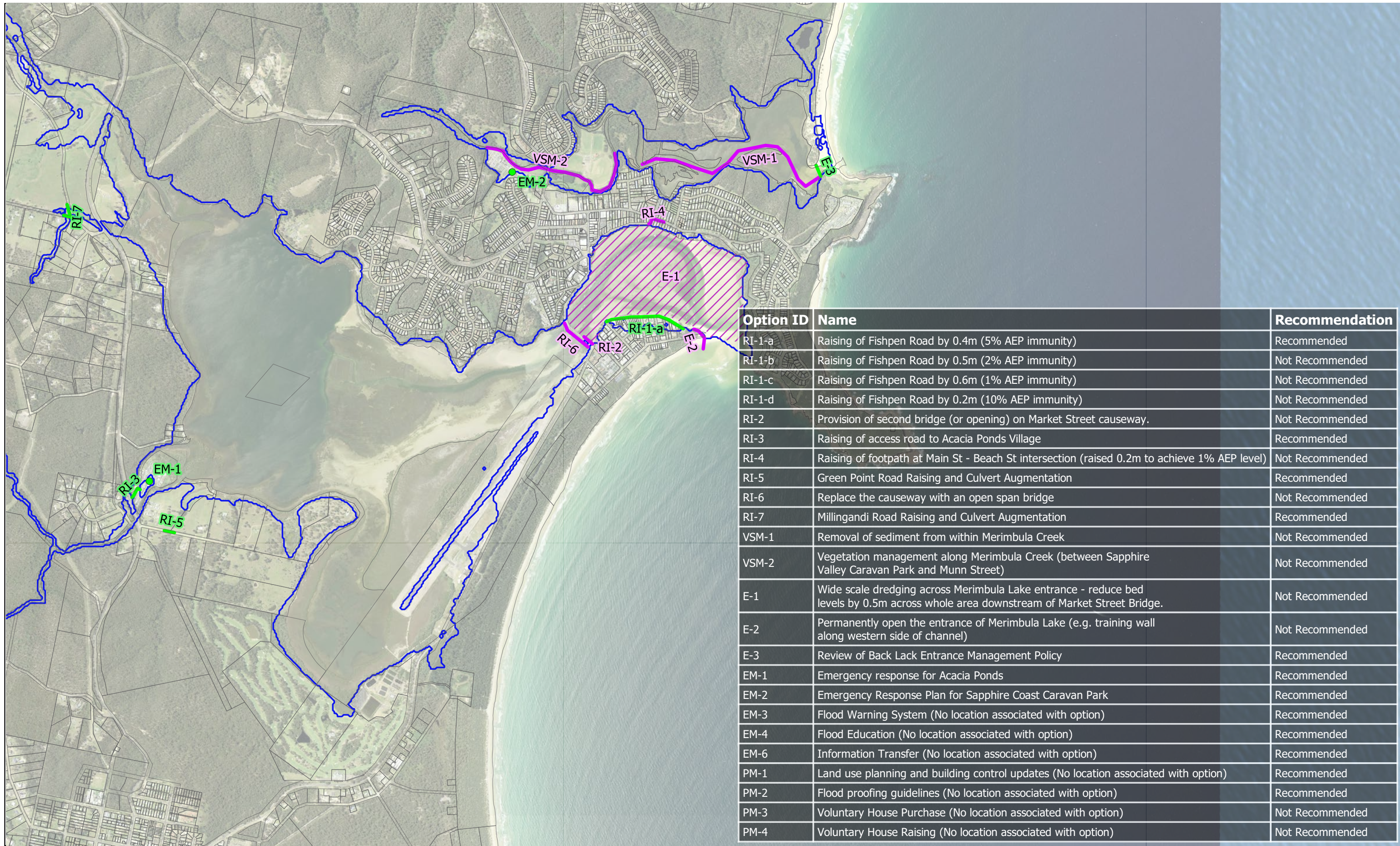


Legend

- Cadastre
- Newly flooded areas under climate change scenario



G806-10  
 1% AEP 0.9m SLR 30% Rainfall



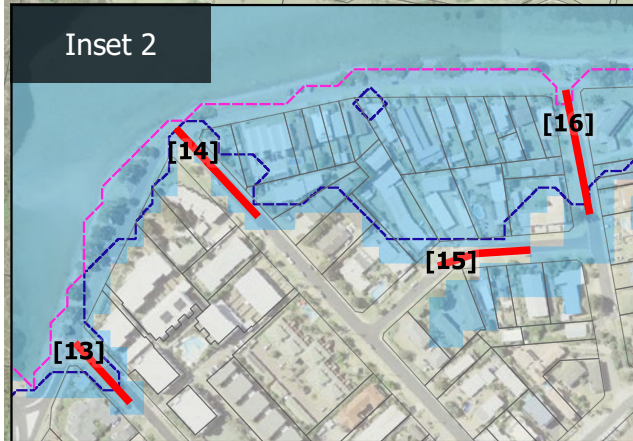
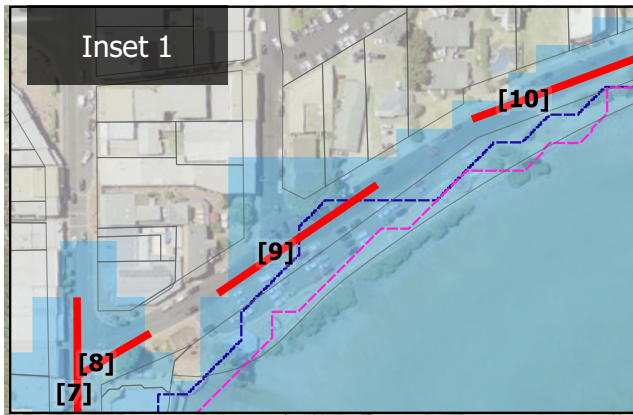
Option ID	Name	Recommendation
RI-1-a	Raising of Fishpen Road by 0.4m (5% AEP immunity)	Recommended
RI-1-b	Raising of Fishpen Road by 0.5m (2% AEP immunity)	Not Recommended
RI-1-c	Raising of Fishpen Road by 0.6m (1% AEP immunity)	Not Recommended
RI-1-d	Raising of Fishpen Road by 0.2m (10% AEP immunity)	Not Recommended
RI-2	Provision of second bridge (or opening) on Market Street causeway.	Not Recommended
RI-3	Raising of access road to Acacia Ponds Village	Recommended
RI-4	Raising of footpath at Main St - Beach St intersection (raised 0.2m to achieve 1% AEP level)	Not Recommended
RI-5	Green Point Road Raising and Culvert Augmentation	Recommended
RI-6	Replace the causeway with an open span bridge	Not Recommended
RI-7	Millingandi Road Raising and Culvert Augmentation	Recommended
VSM-1	Removal of sediment from within Merimbula Creek	Not Recommended
VSM-2	Vegetation management along Merimbula Creek (between Sapphire Valley Caravan Park and Munn Street)	Not Recommended
E-1	Wide scale dredging across Merimbula Lake entrance - reduce bed levels by 0.5m across whole area downstream of Market Street Bridge.	Not Recommended
E-2	Permanently open the entrance of Merimbula Lake (e.g. training wall along western side of channel)	Not Recommended
E-3	Review of Back Lack Entrance Management Policy	Recommended
EM-1	Emergency response for Acacia Ponds	Recommended
EM-2	Emergency Response Plan for Sapphire Coast Caravan Park	Recommended
EM-3	Flood Warning System (No location associated with option)	Recommended
EM-4	Flood Education (No location associated with option)	Recommended
EM-6	Information Transfer (No location associated with option)	Recommended
PM-1	Land use planning and building control updates (No location associated with option)	Recommended
PM-2	Flood proofing guidelines (No location associated with option)	Recommended
PM-3	Voluntary House Purchase (No location associated with option)	Not Recommended
PM-4	Voluntary House Raising (No location associated with option)	Not Recommended



Scale : 1:25000@A3  
 Date : 01 October 2020  
 Revision : C  
 Created by : LRE  
 Coordinate System : MGA94 Z55

1% AEP Extent  
● Recommended  
— Recommended  
 Not Recommended  
 Not Recommended

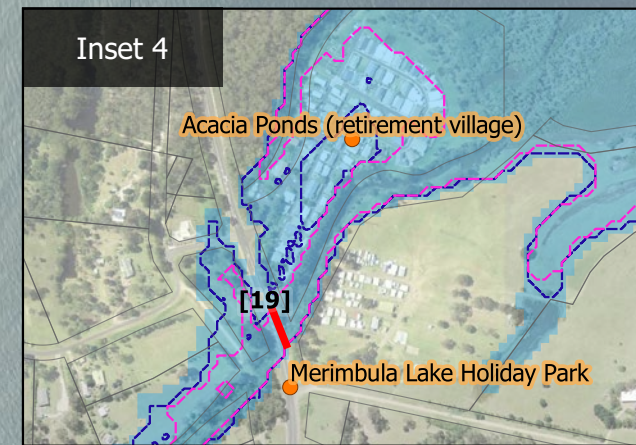
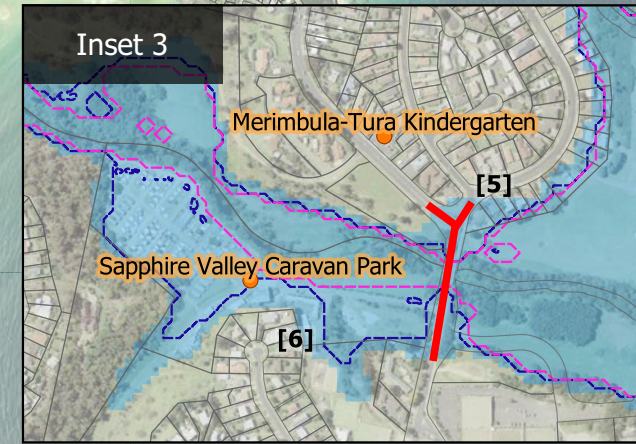
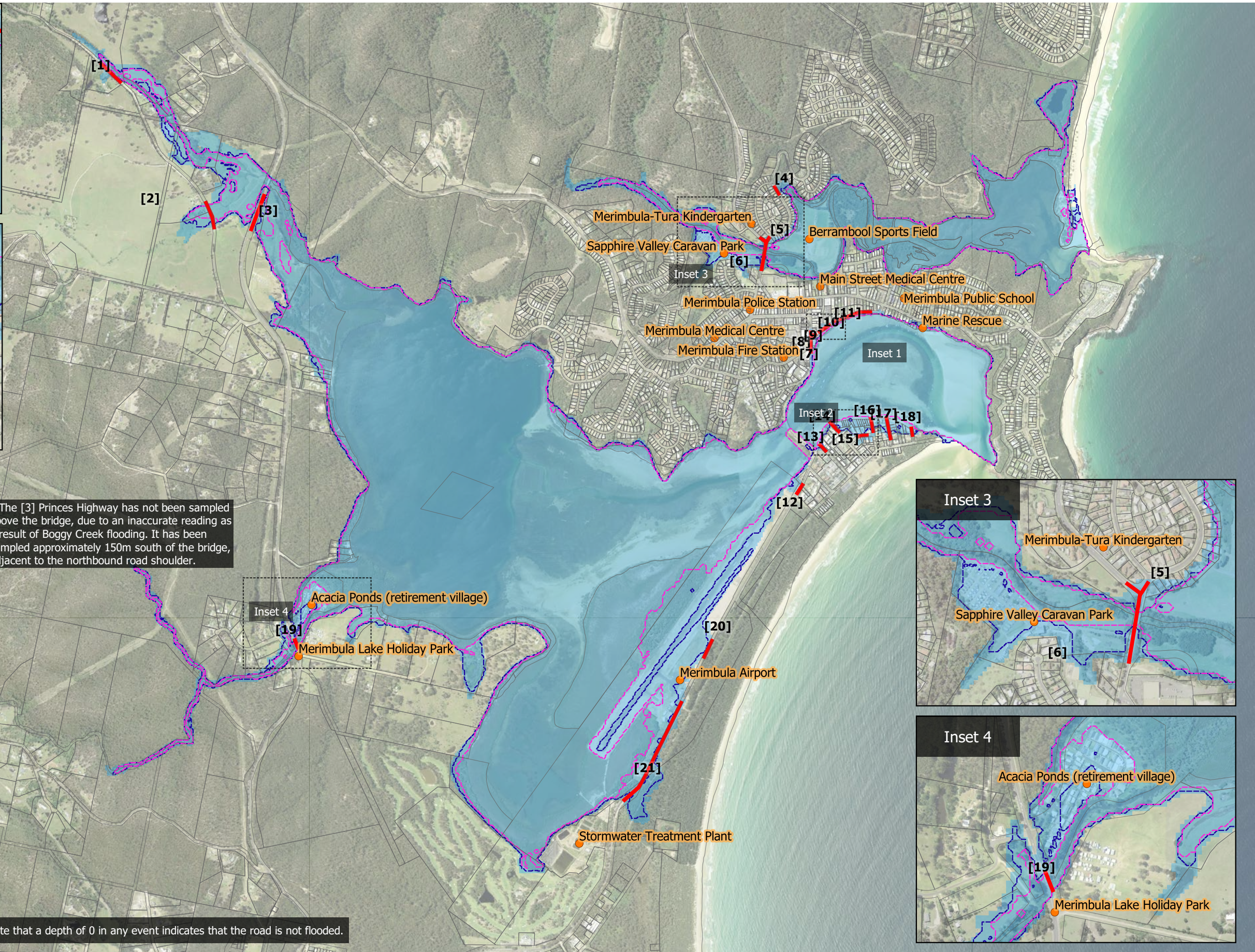




[ID]	Road Name	20yr	100yr	PMF
1	Millingandi Rd	0	0	1.3
2	Millingandi Rd	0.91	1.06	1.4
3	Princes Hwy*	0	0	0.32
4	Berrambool Dr	0	0	0.26
5	Berrambool Dr	0	0	0.39
6	Sapphire Coast Dr	0	0	0.35
7	Market St	0	0.03	0.41
8	Beach St	0	0	0.41
9	Beach St	0	0.09	0.34
10	Beach St	0	0	0.57
11	Beach St	0	0	0.25
12	Arthur Kaine Dr	0	0	0.15
13	Elizabeth St	0	0.26	0.45
14	Marine Pde	0	0	0.32
15	Chapman Ave	0	0	0.48
16	Burton Ave	0.29	0.57	0.76
17	Calendo Ct	0.21	0.53	0.68
18	Fishpen Rd	0.22	0.49	0.68
19	Princes Highway	0	0	0
20	Arthur Kaine Dr	0	0	0.16

\* The [3] Princes Highway has not been sampled above the bridge, due to an inaccurate reading as a result of Boggy Creek flooding. It has been sampled approximately 150m south of the bridge, adjacent to the northbound road shoulder.

Note that a depth of 0 in any event indicates that the road is not flooded.



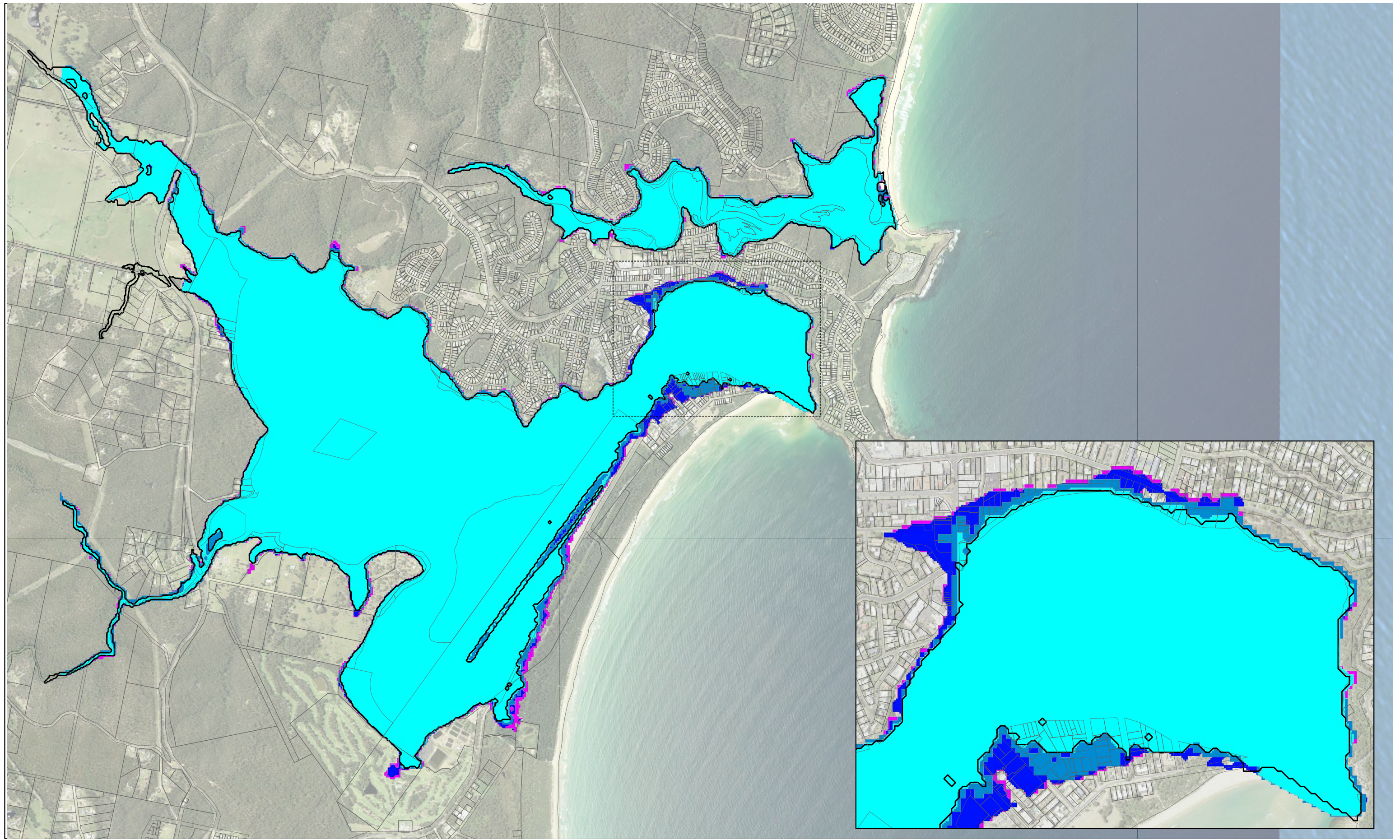
Scale : 1:10000@A3  
 Date : 02 September 2020  
 Revision : A  
 Created by : JS  
 Coordinate System : MGA94 Z55

**Legend**

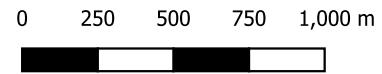
- Cadastre
- Key Infrastructure
- Overtopped Roads (with ID)
- PMF Extent
- 1% AEP Extent
- 20% AEP Extent

**G902**





Scale : 1:25000@A3  
 Date : 02 September 2020  
 Revision : A  
 Created by : JS  
 Coordinate System : MGA94 Z55



Legend

- Cadastre
- 1% AEP
- 1% AEP - 0.4m Sea Level Rise
- 1% AEP - 0.4m Sea Level Rise + 10% Increase in Rainfall
- 1% AEP - 0.9m Sea Level Rise
- 1% AEP - 0.9m Sea Level Rise + 30% Increase in Rainfall

