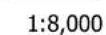




0.15 - 0.3
0.3 - 0.5
0.5 - 1
1 - 2
2 - 3
3 - 4
>4



Size : A3
Date : 15 June 2020
Revision : A
Created by : LRE
Coordinate System : MGA 56



**G801-e-2
Catalina
1% AEP Depth**

Legend

Study Areas

Depth (m)

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



0 130 260 390 m

1:8000

Size : A3
Date : 15 June 2020
Revision : A
Created by : LRE
Coordinate System : MGA 56

R h e l m



**G801-e-3
Catalina
10% AEP Depth**

Legend

Study Areas

Depth (m)

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



0 130 260 390 m

1:8000

Size : A3
Date : 15 June 2020
Revision : A
Created by : LRE
Coordinate System : MGA 56

R h e l m



G802-e-1 Catalina PMF Velocity

Legend

Study Areas

Velocity (m/s)

0 - 0.5

0.5 - 1

1 - 2

2 - 3

3 - 4

> 4



0 130 260 390 m

1:8000

Size : A3

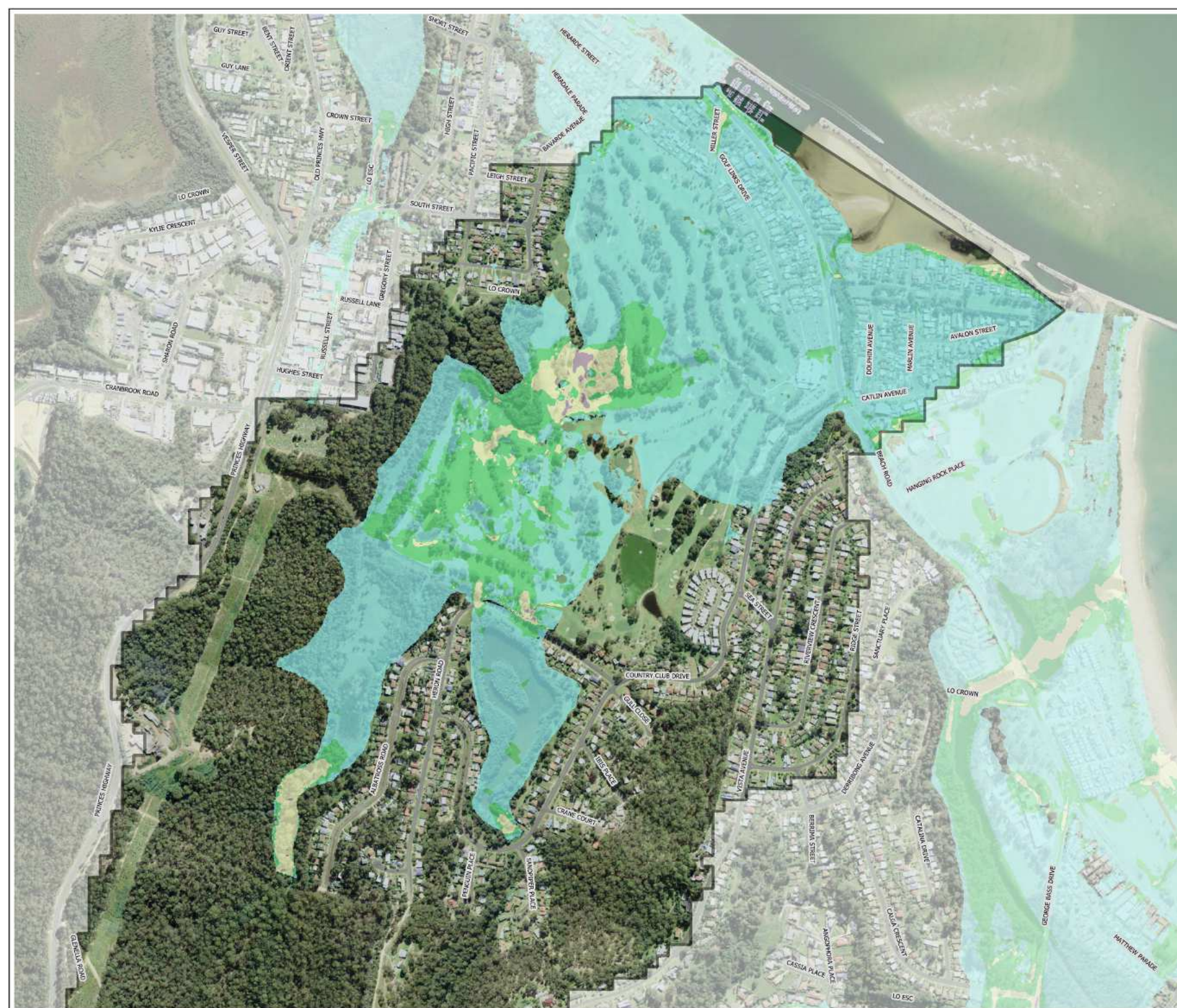
Date : 15 June 2020

Revision : A

Created by : LRE

Coordinate System : MGA 56

R h e l m





**G802-e-2
Catalina
1% AEP Velocity**

Legend

Study Areas

Velocity (m/s)

0 - 0.5

0.5 - 1

1 - 2

2 - 3

3 - 4

> 4



0 130 260 390 m

1:8000

Size : A3
Date : 15 June 2020
Revision : A
Created by : LRE
Coordinate System : MGA 56

R h e l m



**G802-e-3
Catalina
10% AEP Velocity**

Legend

Study Areas

Velocity (m/s)

0 - 0.5

0.5 - 1

1 - 2

2 - 3

3 - 4

> 4

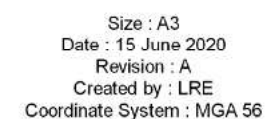


0 130 260 390 m

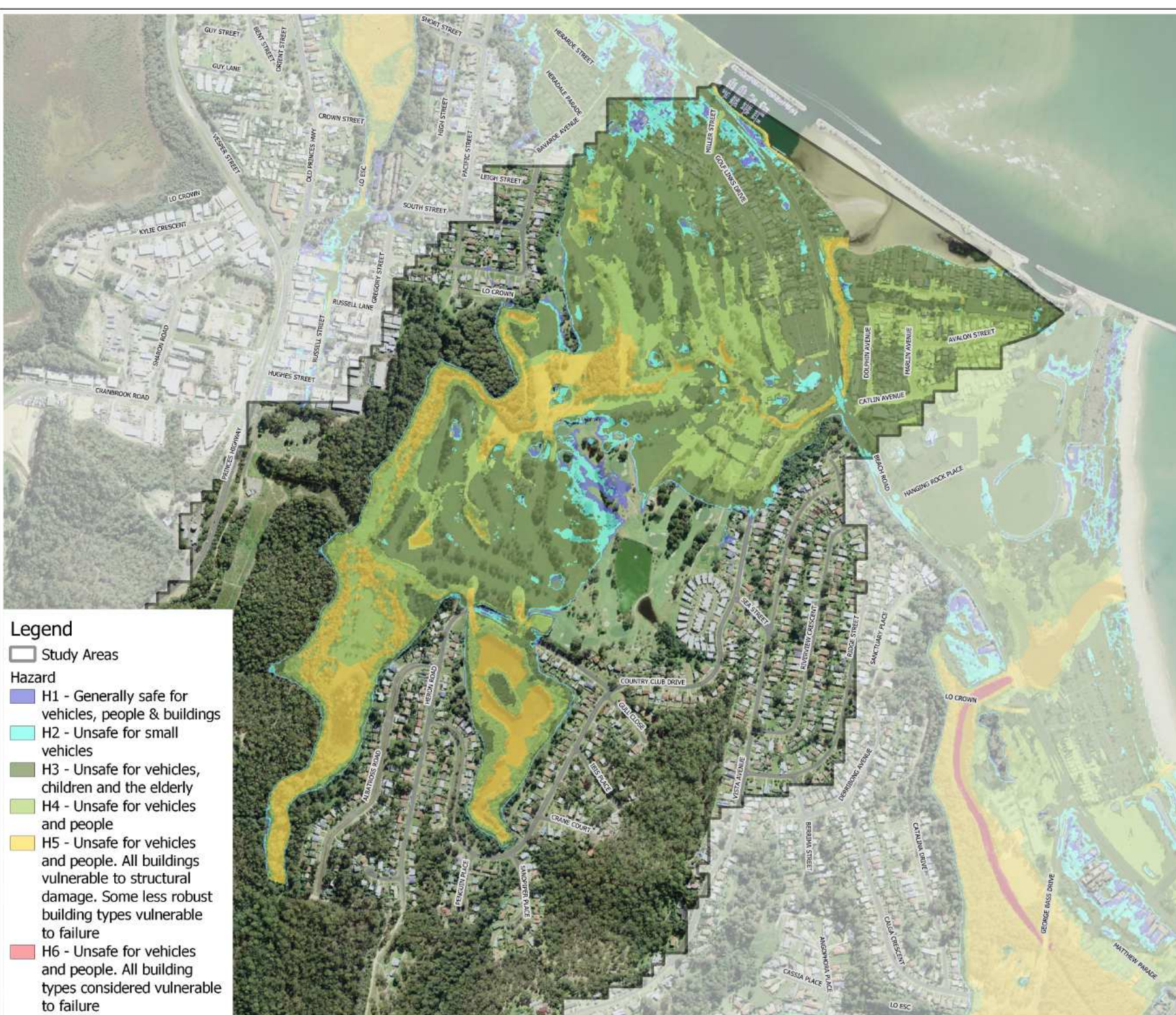
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Size : A3
Date : 15 June 2020
Revision : A
Created by : LRE
Coordinate System : MGA 56

R h e l m



R h e l m

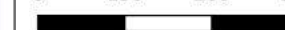




**G803-e-2
Catalina
1% AEP Hazard**



0 130 260 390 m



1:8000

Size : A3
Date : 15 June 2020
Revision : A
Created by : LRE
Coordinate System : MGA 56

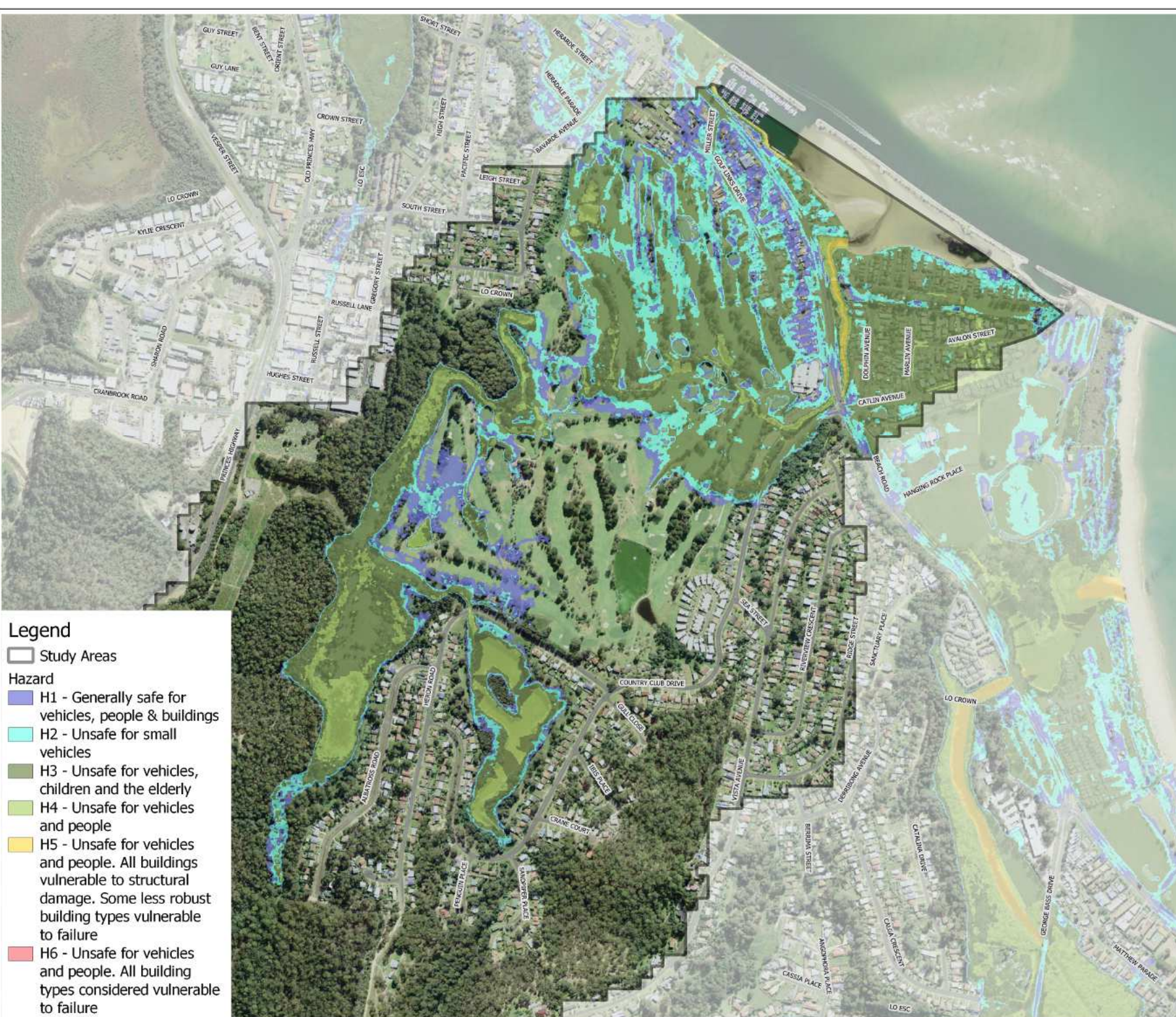


Legend

Study Areas

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





**G803-e-3
Catalina
10% AEP Hazard**



0 130 260 390 m

1:8000

Size : A3
Date : 15 June 2020
Revision : A
Created by : LRE
Coordinate System : MGA 56

R h e l m

- Legend**
- Study Areas
- 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





G804-e-1 Catalina PMF Flood Function

Legend

- Study Areas
- Flood Function
 - Floodway
 - Storage
 - Fringe

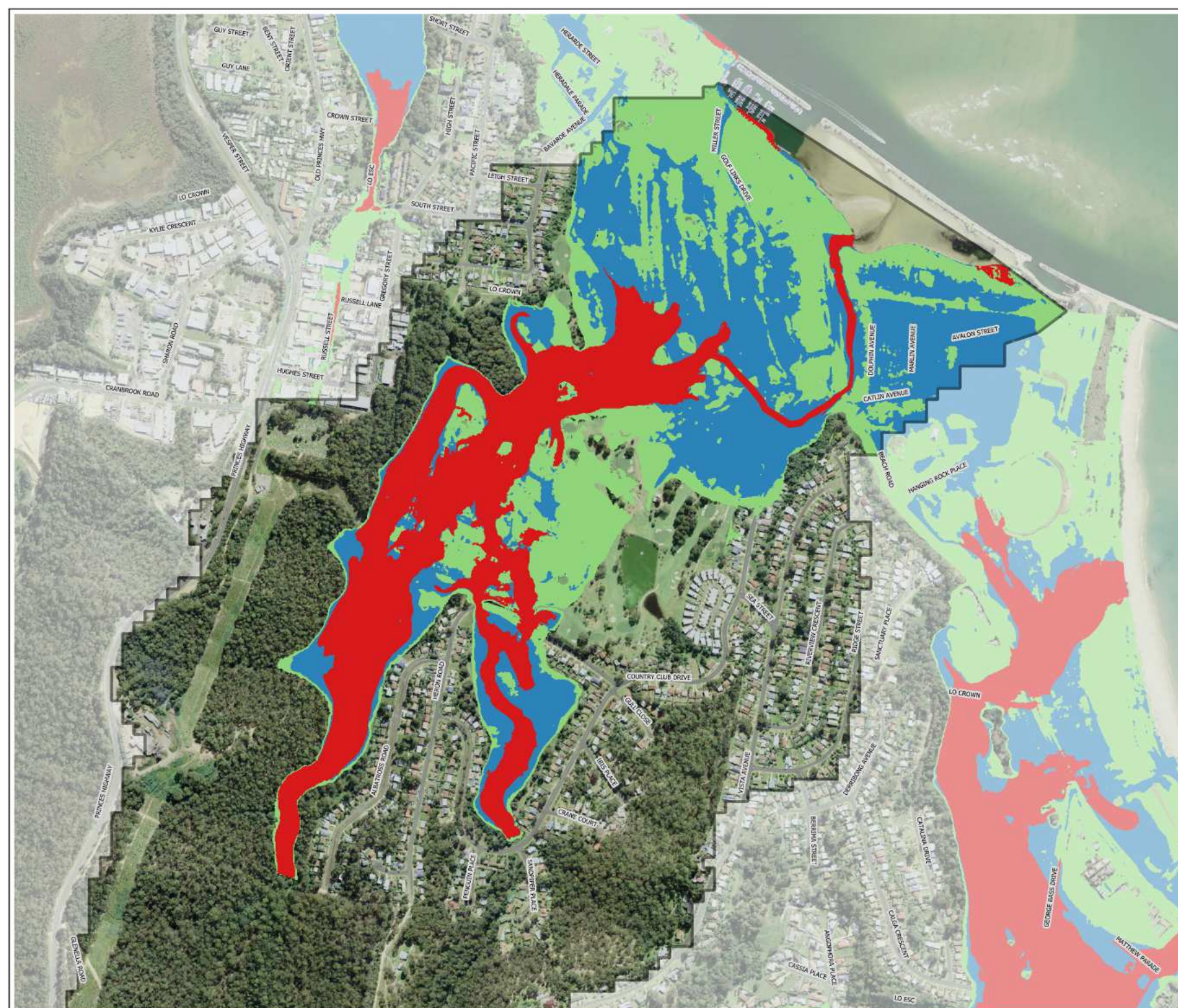


0 130 260 390 m

1:8000

Size : A3
Date : 15 June 2020
Revision : A
Created by : LRE
Coordinate System : MGA 56

R h e l m





**G804-e-2
Catalina
1% AEP Flood
Function**

Legend

Study Areas

Flood Function

Floodway

Storage

Fringe

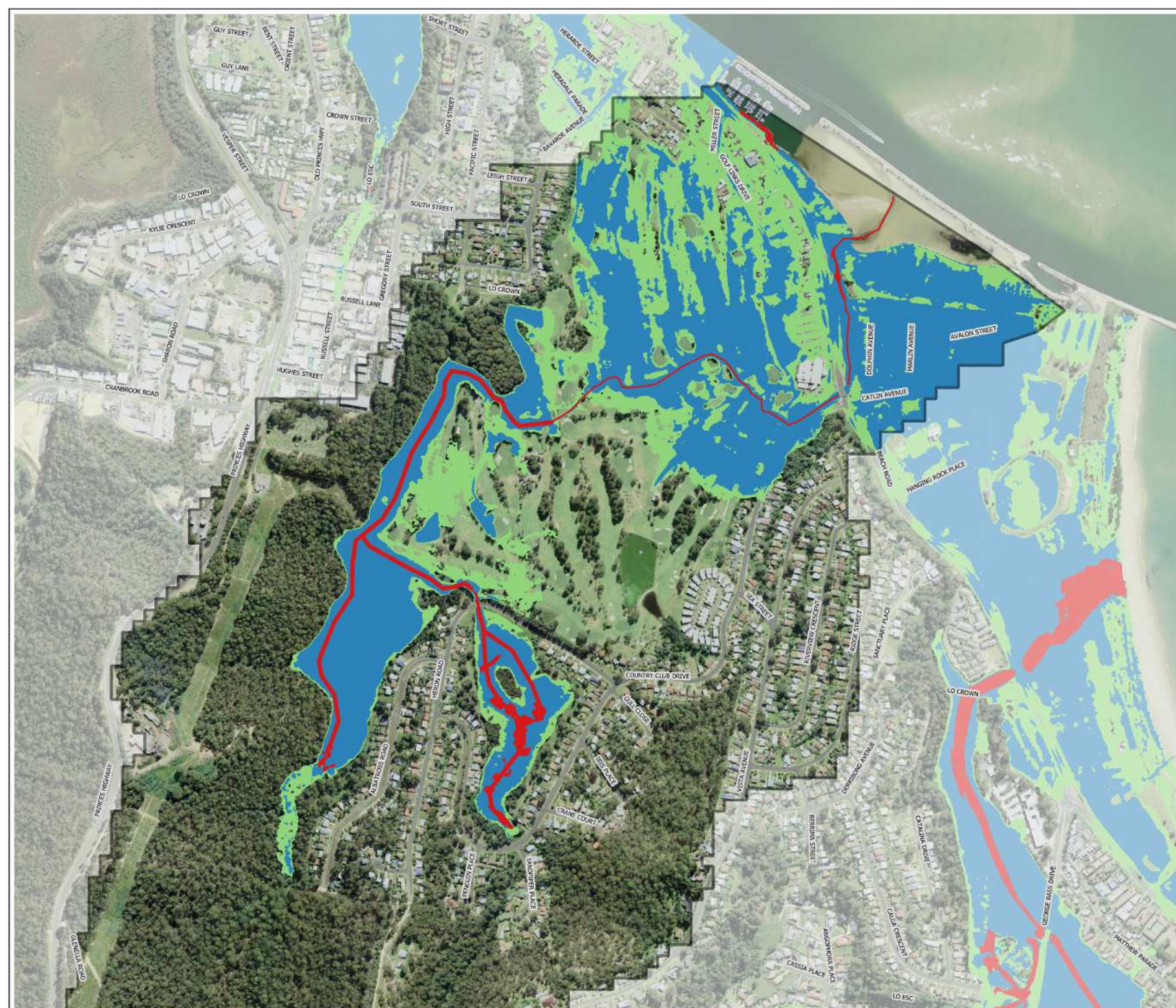


0 130 260 390 m

1:8000

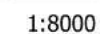
Size : A3
Date : 15 June 2020
Revision : A
Created by : LRE
Coordinate System : MGA 56

R h e l m

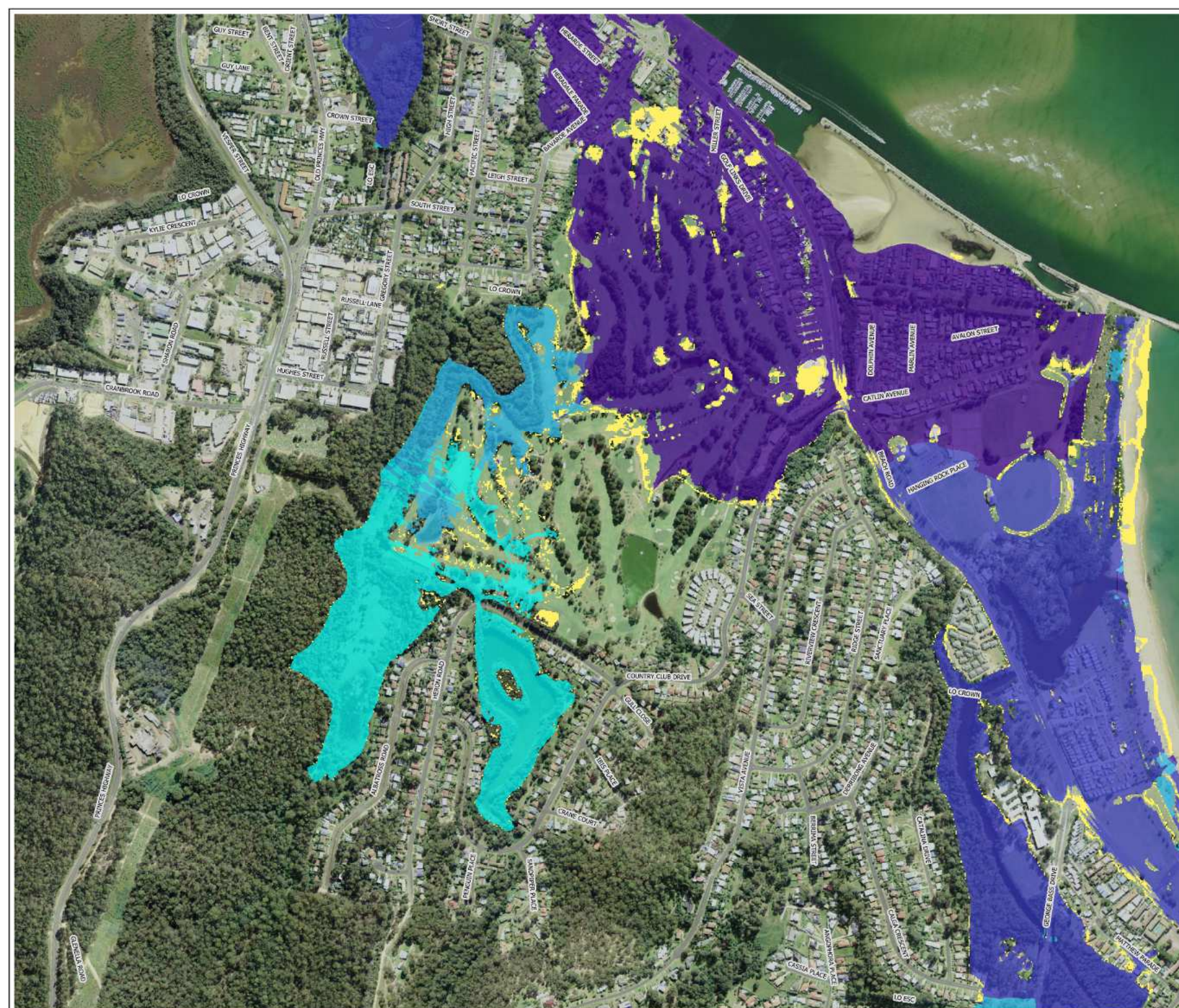




Study Area
Water Level Difference (m)
 Was dry, now wet



Size : A3
Date : 15 June 2020
Revision : A
Created by : LRE
Coordinate System : MGA 56





**G805-e-2
Catalina
5% AEP 0.35m SLR
Impacts
(2050 Scenario)**

Legend

Study Areas

Water Level Difference (m)

<= 0.01

0.01 - 0.05

0.05 - 0.1

0.1 - 0.2

0.2 - 0.4

0.4 - 0.6

> 0.6

Was dry, now wet



0 130 260 390 m

1:8000

Size : A3

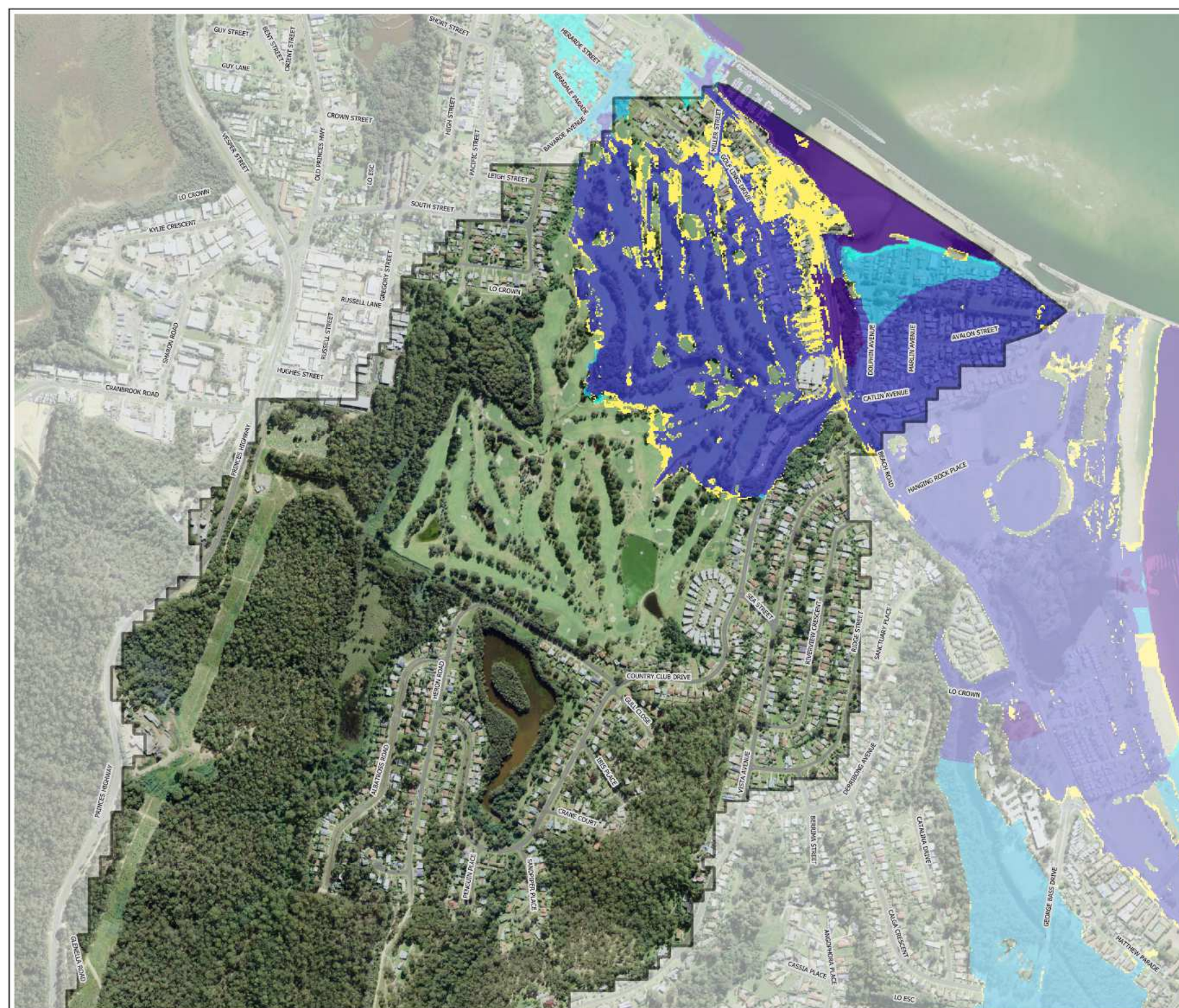
Date : 15 June 2020

Revision : A

Created by : LRE

Coordinate System : MGA 56

R h e l m





**G806-e
Catalina
0.72m SLR Impacts
(2100 Scenario)**

Legend

Study Area

Water Level Difference (m)

-  ≤ 0.01
-  0.01 - 0.05
-  0.05 - 0.1
-  0.1 - 0.2
-  0.2 - 0.4
-  0.4 - 0.6
-  > 0.6
-  Was dry, now wet

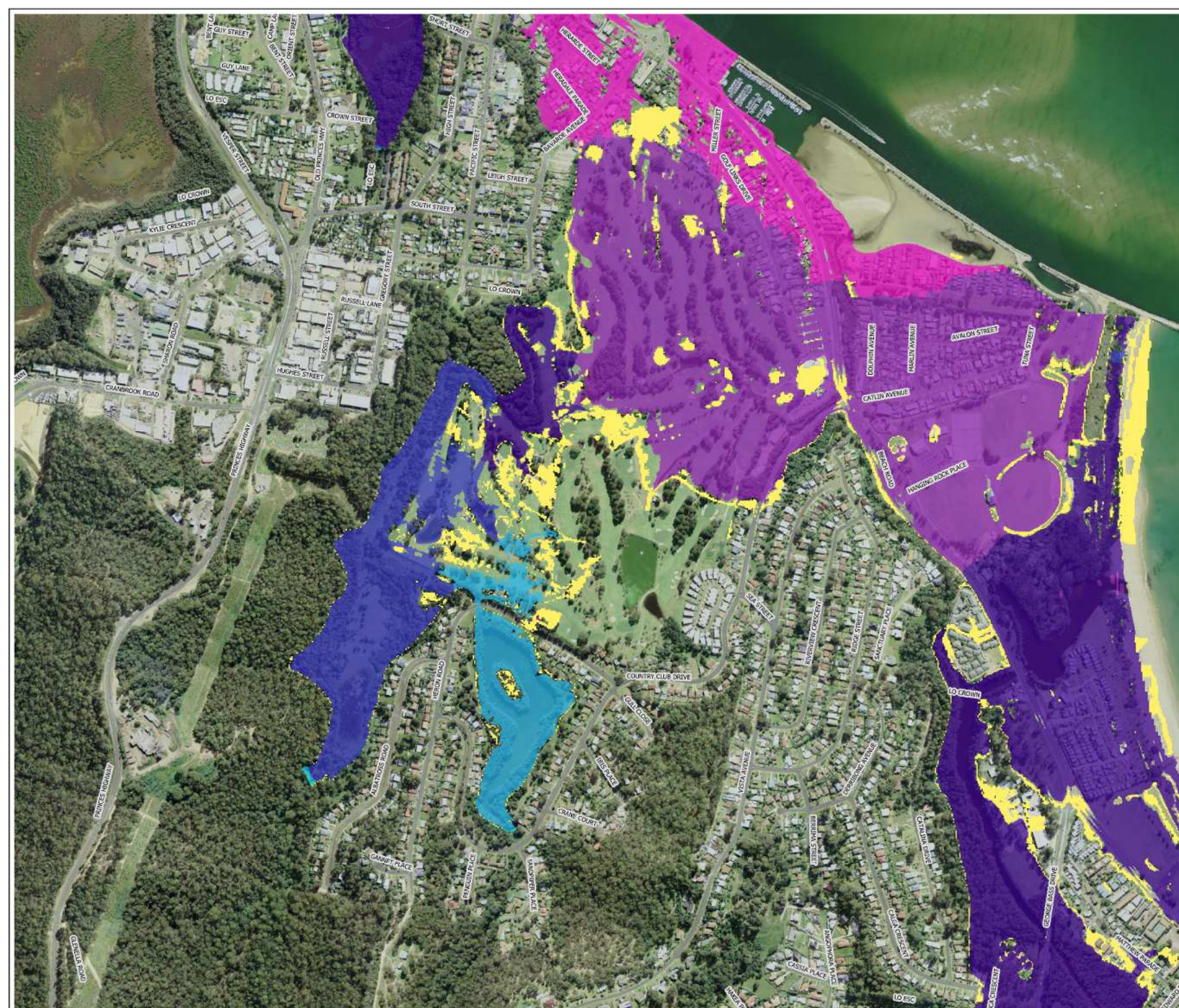


0 130 260 390 m

1:8000

Size : A3
Date : 15 June 2020
Revision : A
Created by : LRE
Coordinate System : MGA 56

R h e l m





**G807-e-2
Catalina
PMF Critical Duration**

Legend

Study Areas

Critical Duration

60 minute

90 minute

120 minute

180 minute



0 130 260 390 m



1:8000

Size : A3
Date : 15 June 2020
Revision : A
Created by : LRE
Coordinate System : MGA 56

R h e l m



**G807-e-2
Catalina
1% AEP Critical
Duration**

Legend

Study Areas

Critical Duration

30 minute

60 minute

120 minute

180 minute



0 130 260 390 m



1:8000

Size : A3
Date : 15 June 2020
Revision : A
Created by : LRE
Coordinate System : MGA 56



**G807-e-2
Catalina
10% AEP Critical
Duration**

Legend

 Study Areas

Critical Duration

 30 minute

 90 minute

 120 minute

 270 minute



0 130 260 390 m



1:8000

Size : A3
Date : 15 June 2020
Revision : A
Created by : LRE
Coordinate System : MGA 56

R h e l m



G807-e Catalina Tidal Inundation

Legend

-  Study Areas
-  Existing Tidal Extent
-  0.35m SLR Tidal Extent
-  0.72m SLR Tidal Extent



0 130 260 390 m



1:8000

Size : A3
Date : 15 June 2020
Revision : A
Created by : LRE
Coordinate System : MGA 56





G901-e Catalina Flood Planning Area

Legend

- Study Areas
- Existing 1% AEP +0.5m
- 0.35m SLR 1% AEP +0.5m
- 0.72m SLR 1% AEP +0.5m
- PMF Extent



0 130 260 390 m

1:8000

Size : A3
Date : 15 June 2020
Revision : A
Created by : LRE
Coordinate System : MGA 56

R h e l m



G902-e-1 Catalina PMF Flood Emergency Response Classifications

Legend

Study Areas

Classifications

Flooded Rising Road

Flooded Overland Escape

Isolated, Elevated

Isolated, Submerged



0 130 260 390 m



1:8000

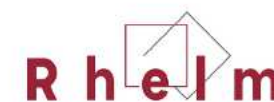
Size : A3

Date : 15 June 2020

Revision : A

Created by : LRE

Coordinate System : MGA 56





**G902-e-2
Catalina
1% AEP Flood
Emergency Response
Classifications**

Legend

Study Areas

Classifications

Flooded Rising Road

Flooded Overland Escape

Isolated, Elevated

Isolated, Submerged

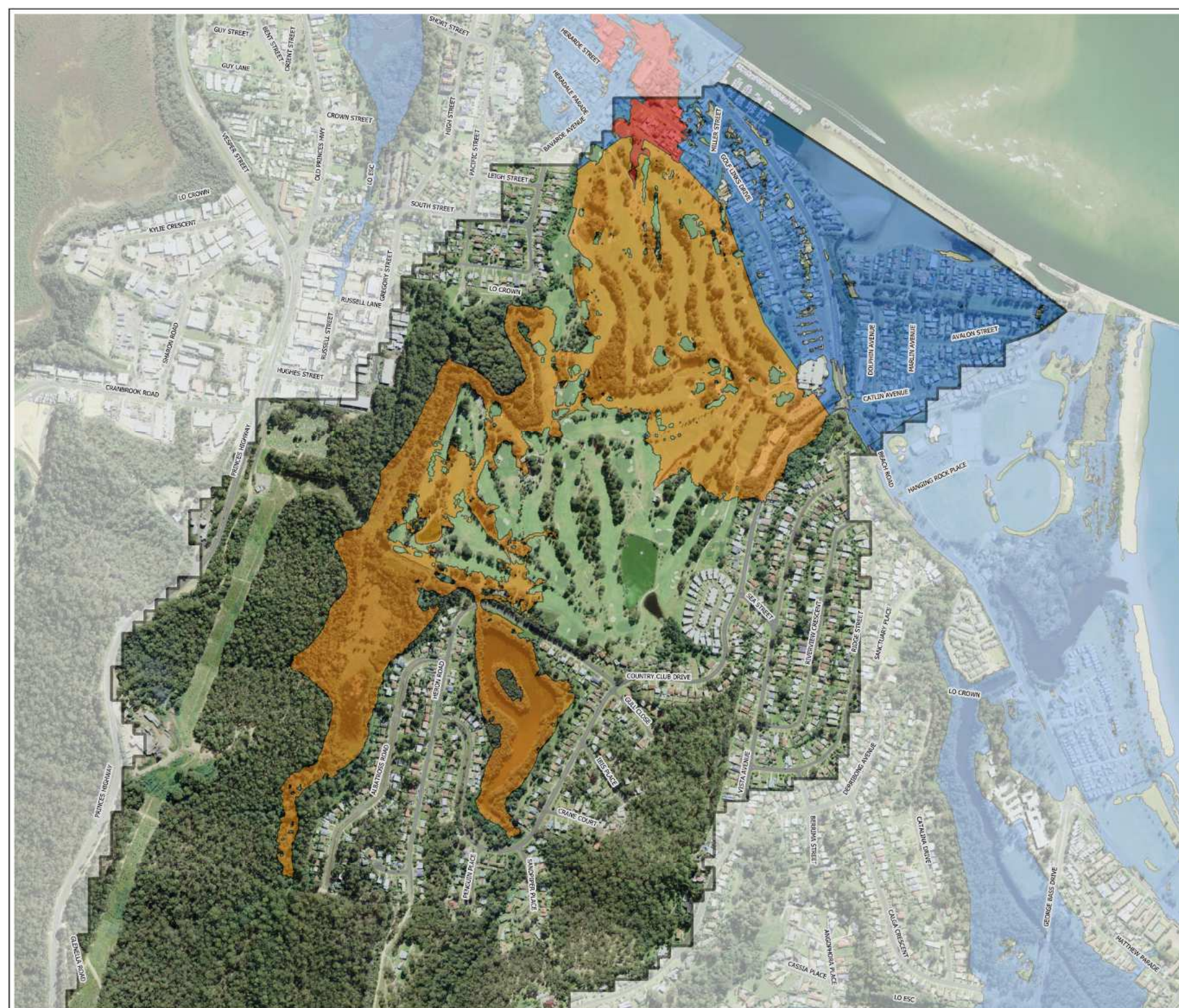


0 130 260 390 m

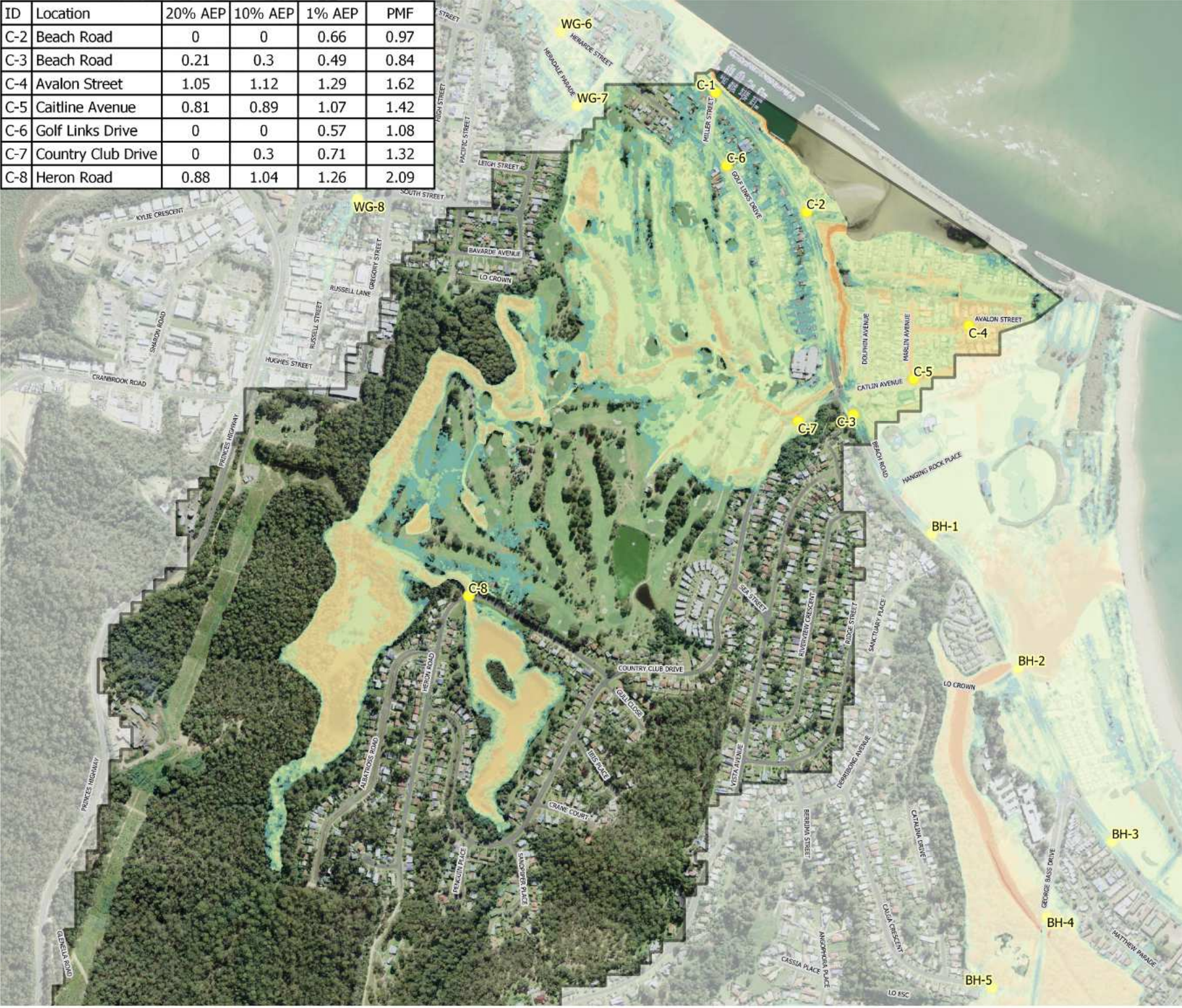
1:8000

Size : A3
Date : 15 June 2020
Revision : A
Created by : LRE
Coordinate System : MGA 56

R h e l m



ID	Location	20% AEP	10% AEP	1% AEP	PMF
C-2	Beach Road	0	0	0.66	0.97
C-3	Beach Road	0.21	0.3	0.49	0.84
C-4	Avalon Street	1.05	1.12	1.29	1.62
C-5	Caitline Avenue	0.81	0.89	1.07	1.42
C-6	Golf Links Drive	0	0	0.57	1.08
C-7	Country Club Drive	0	0.3	0.71	1.32
C-8	Heron Road	0.88	1.04	1.26	2.09



G903-e Catalina Road Overtopping

- Legend**
- Study Areas
 - Overtopping Locations
 - 1% AEP Depth (m)
 - 0.15 - 0.3
 - 0.3 - 0.5
 - 0.5 - 1
 - 1 - 2
 - 2 - 3
 - 3 - 4
 - >4



0 130 260 390 m
1:8000

Size : A3
Date : 15 June 2020
Revision : A
Created by : LRE
Coordinate System : MGA 56





T002-e Catalina Pump Station Affection

Legend

- Study Areas
- 10% AEP Extent
- 1% AEP Extent
- PMF Extent

Pump Station Affection

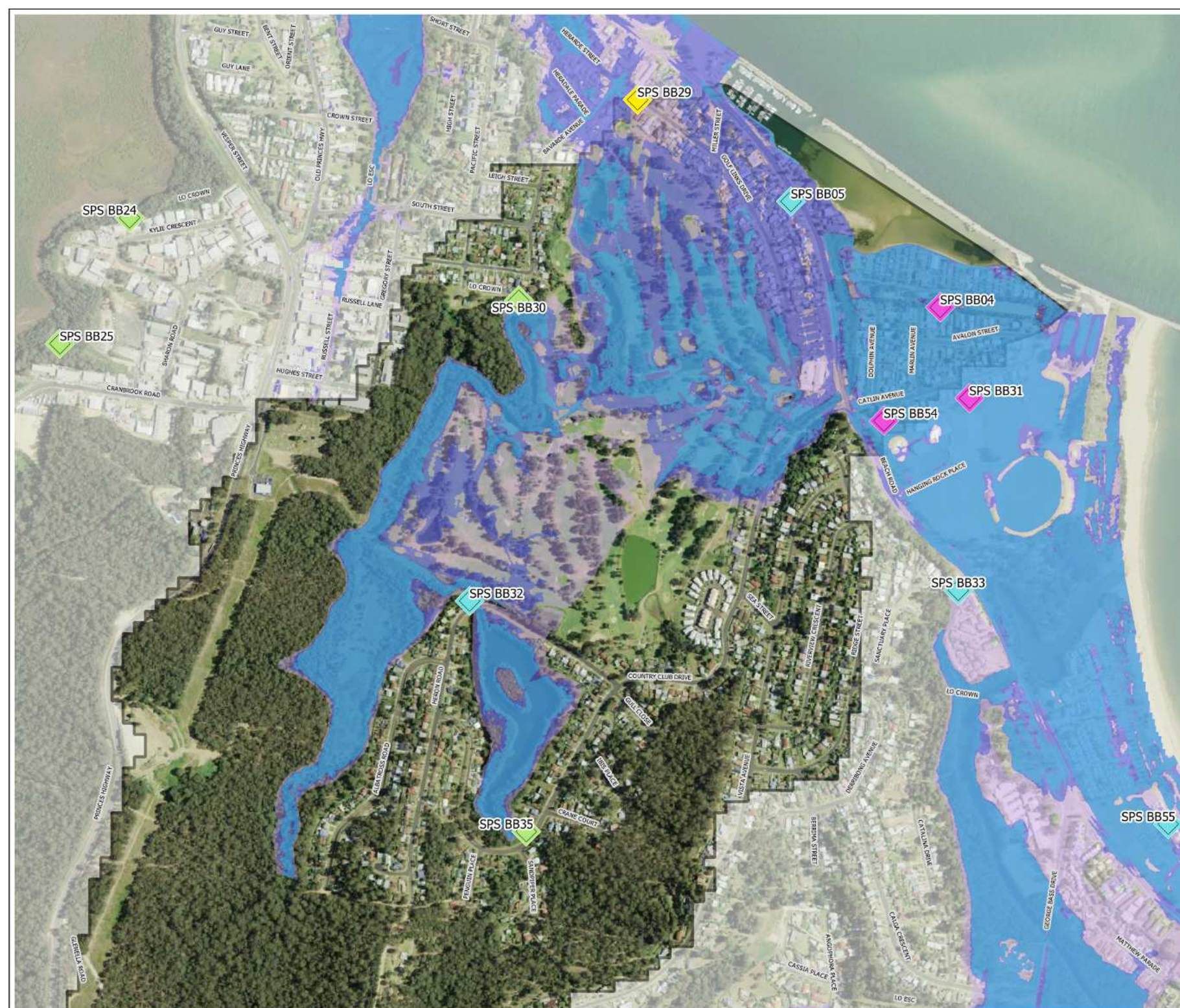
- Flooded in 10% AEP
- Flooded in 1% AEP
- Flooded in PMF
- Flood Free



0 130 260 390 m

1:8,000

Size : A3
Date : 15 June 2020
Revision : A
Created by : LRE
Coordinate System : MGA 56





G905-e Catalina Draft Flood Prone Land Control Areas

Legend

- Study Areas
- FPA - Flood Planning Area
- SFC - Special Flood Considerations

Land Use Zones

- | | | | |
|----|-----|-----|-----|
| B1 | E2 | RE1 | SP1 |
| B2 | E4 | RE2 | SP2 |
| B4 | IN1 | RU1 | SP3 |
| B5 | R2 | RU3 | W1 |
| DM | R3 | RU4 | W2 |
| E1 | R5 | RU5 | |



0 130 260 390 m

1:8000

Size : A3
Date : 22 June 2020
Revision : A
Created by : LRE
Coordinate System : MGA 56

