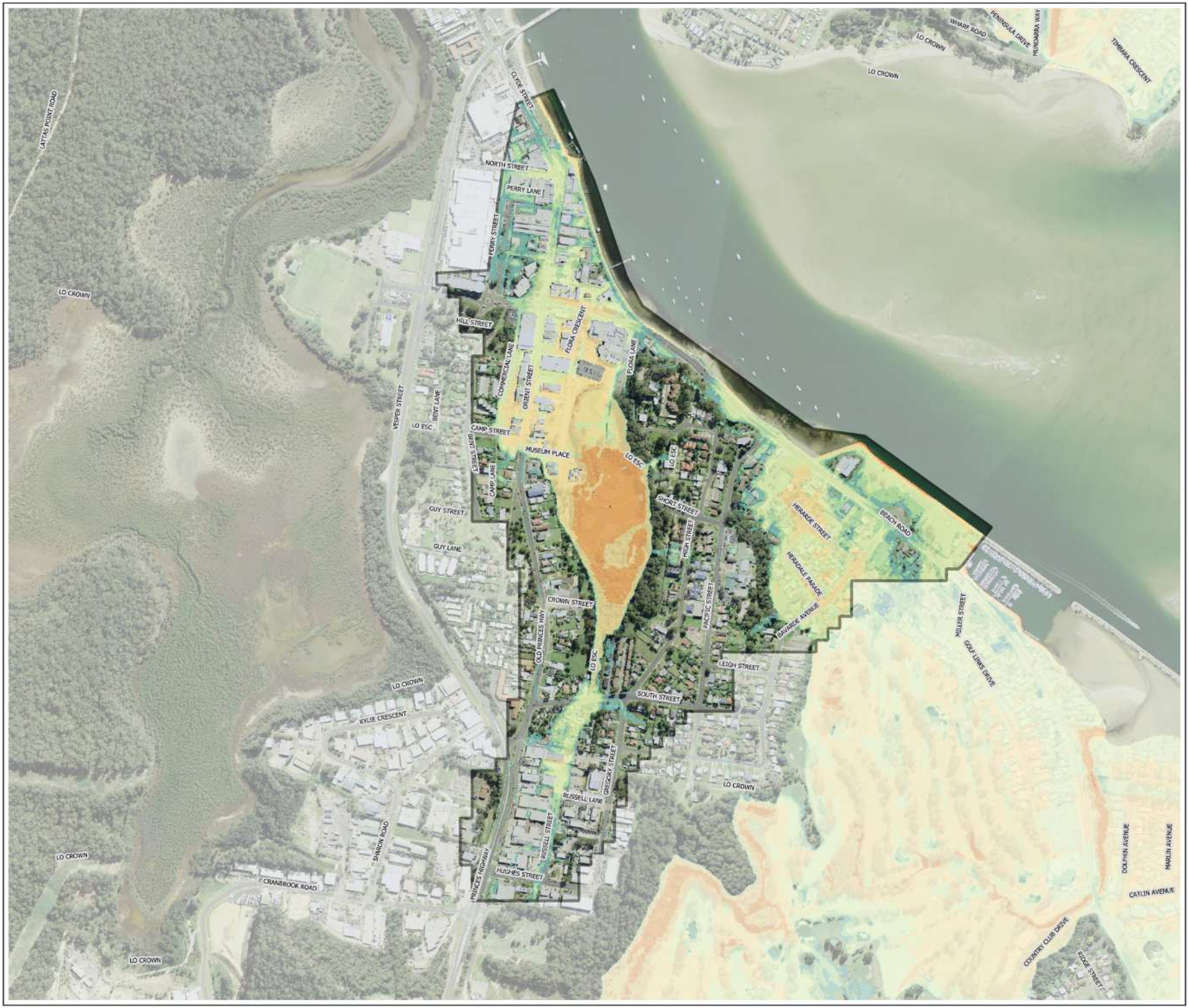


N

W E

S

G801-d-1
Water Gardens
PMF Depth

Legend

Study Area

Depth (m)

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

0 100 200 300 m

1:7,500

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

Rhelm

N

W E

S

G801-d-2
Water Gardens
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

0 100 200 300 m

1:7500

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

Rhelm

N

W E

S

G801-d-3
Water Gardens
10% AEP Depth

Legend

- Study Areas

Depth (m)

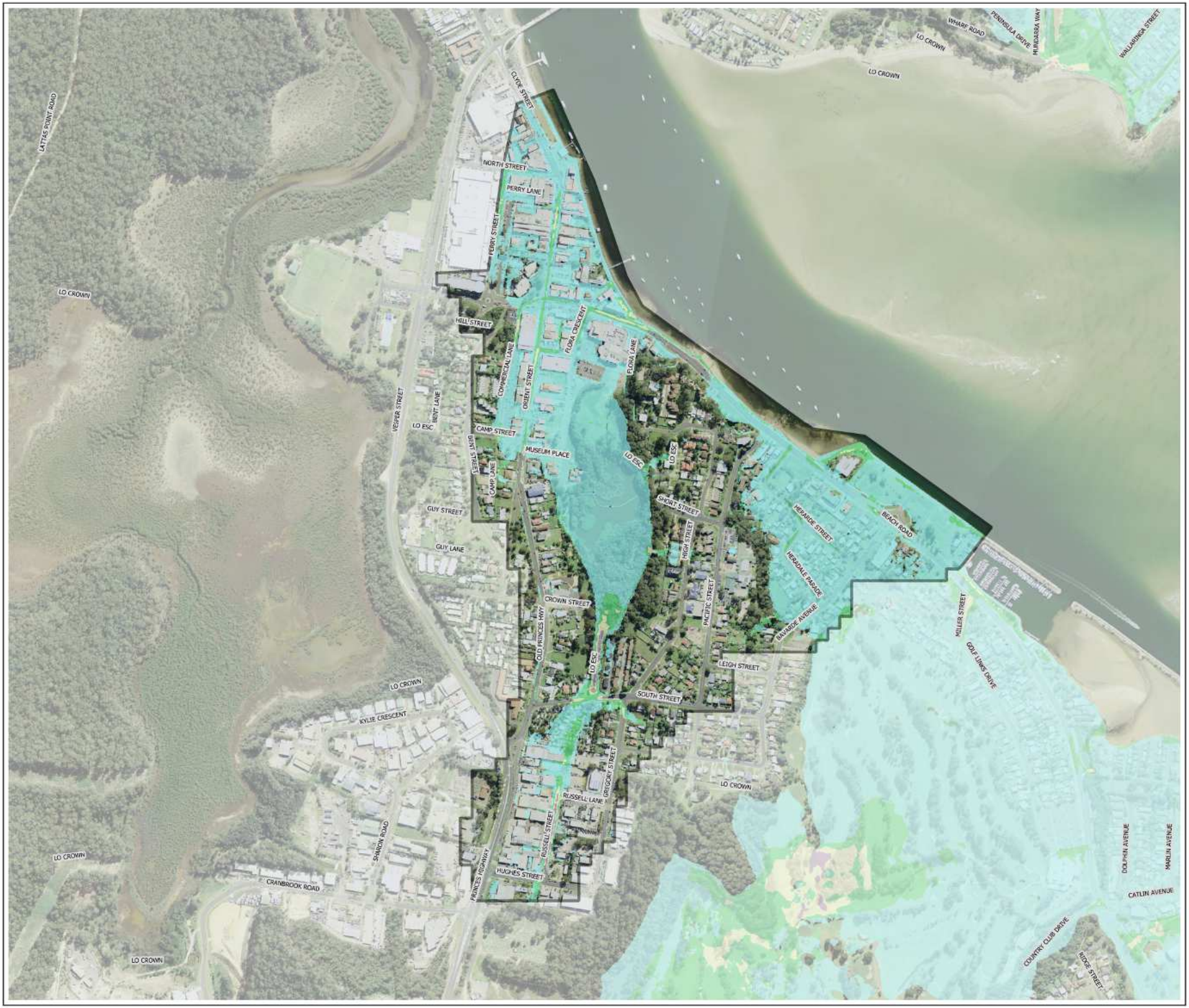
- 0.15 - 0.3
- 0.3 - 0.5
- 0.5 - 1
- 1 - 2
- 2 - 3
- 3 - 4
- >4

0 100 200 300 m

1:7500

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

Rhelm



N

W E

S

G802-d-1
Water Gardens
PMF Velocity

Legend

- Study Areas

Velocity (m/s)

- 0 - 0.5
- 0.5 - 1
- 1 - 2
- 2 - 3
- 3 - 4
- > 4

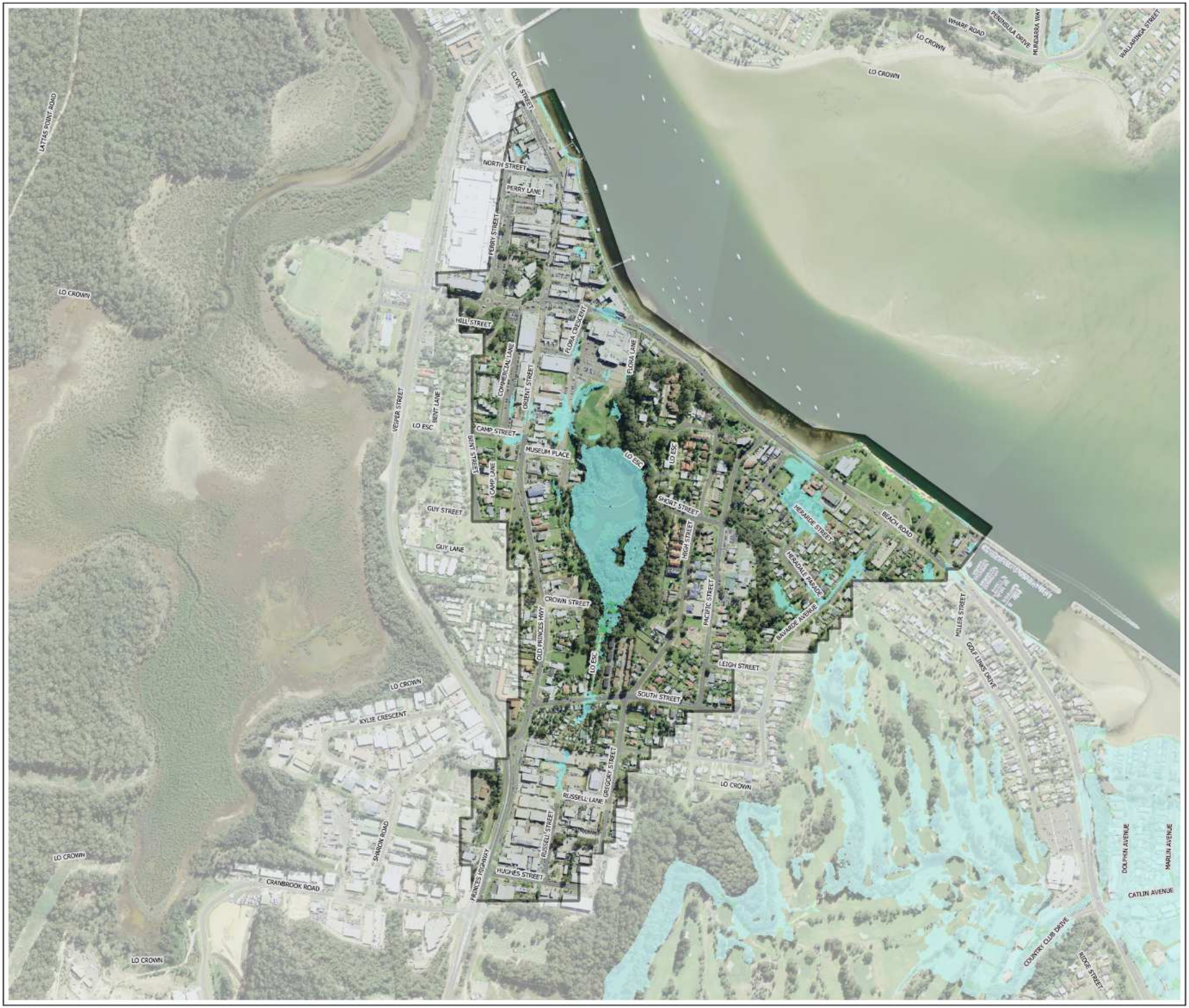
0 100 200 300 m

1:7500

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

Rhelm

N
W
E
S
G802-d-2
Water Gardens
1% AEP Velocity
Legend
Study Areas
Velocity (m/s)
0 - 0.5
0.5 - 1
1 - 2
2 - 3
3 - 4
> 4
0 100 200 300 m
1:7500
Size : A3
Date : 15 June 2020
Revision : A
Created by : LRE
Coordinate System : MGA 56
Rhelm
LO CROWN
NORTH STREET
PERRY LANE
FERRY STREET
HILL STREET
CAMP STREET
MUSEUM PLACE
GUY STREET
GUY LANE
CROWN STREET
SHORT STREET
HIGH STREET
PACIFIC STREET
BEACH ROAD
LEIGH STREET
SOUTH STREET
OLD PRINCES HWY
PRINCES HIGHWAY
RUSSELL LANE
HUGHES STREET
CRANBROOK ROAD
KYLIE CRESCENT
SHARON ROAD
GOLF LINKS DRIVE
CATLIN AVENUE
COUNTRY CLUB DRIVE
WHARF ROAD
PENINSULA DRIVE
LATTAS POINT ROAD



N

W E

S

G802-d-3
Water Gardens
10% AEP Velocity

Legend

- Study Areas

Velocity (m/s)

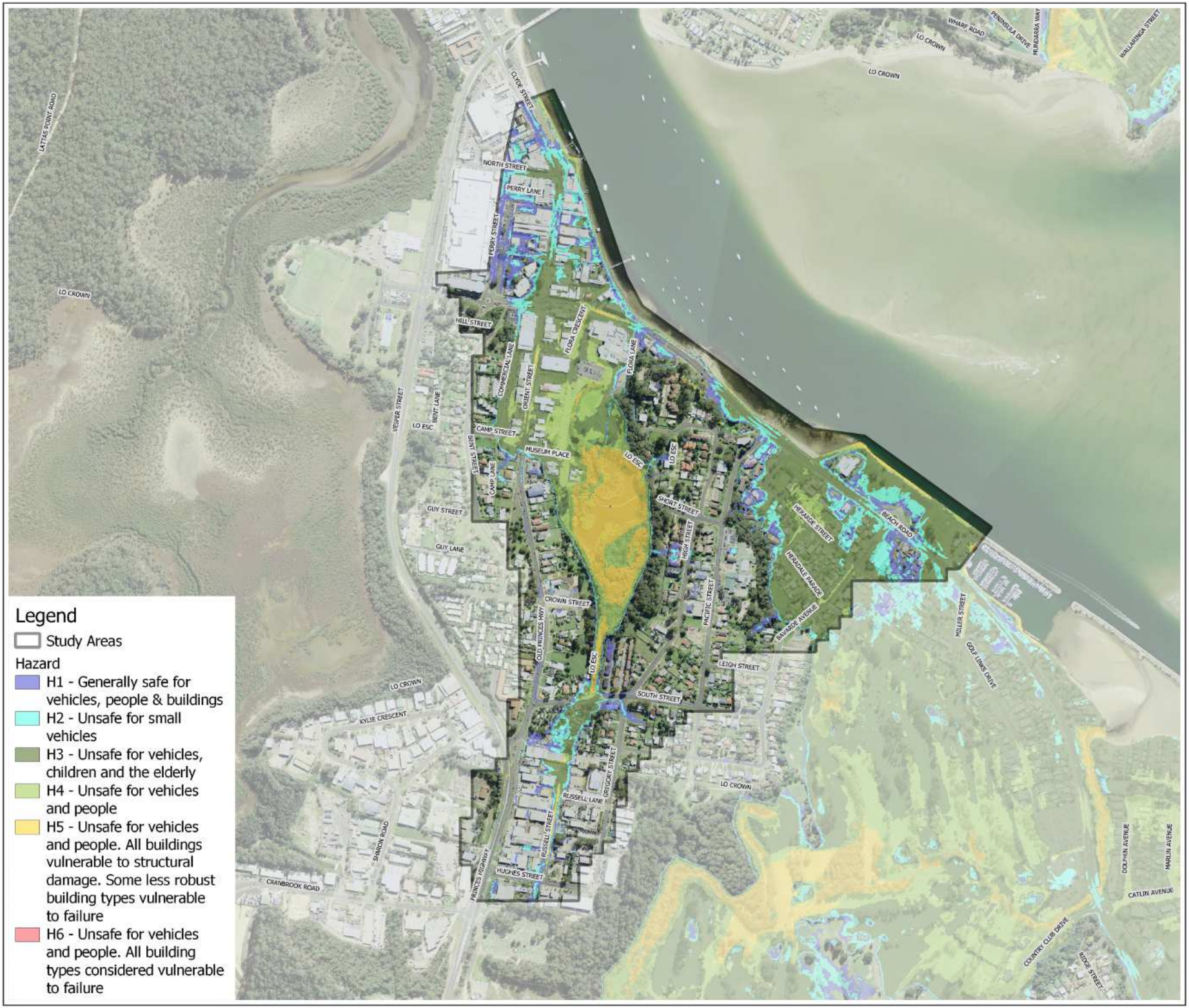
- 0 - 0.5
- 0.5 - 1
- 1 - 2
- 2 - 3
- 3 - 4
- > 4

0 100 200 300 m

1:7500

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

Rhelm



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

N

W E

S

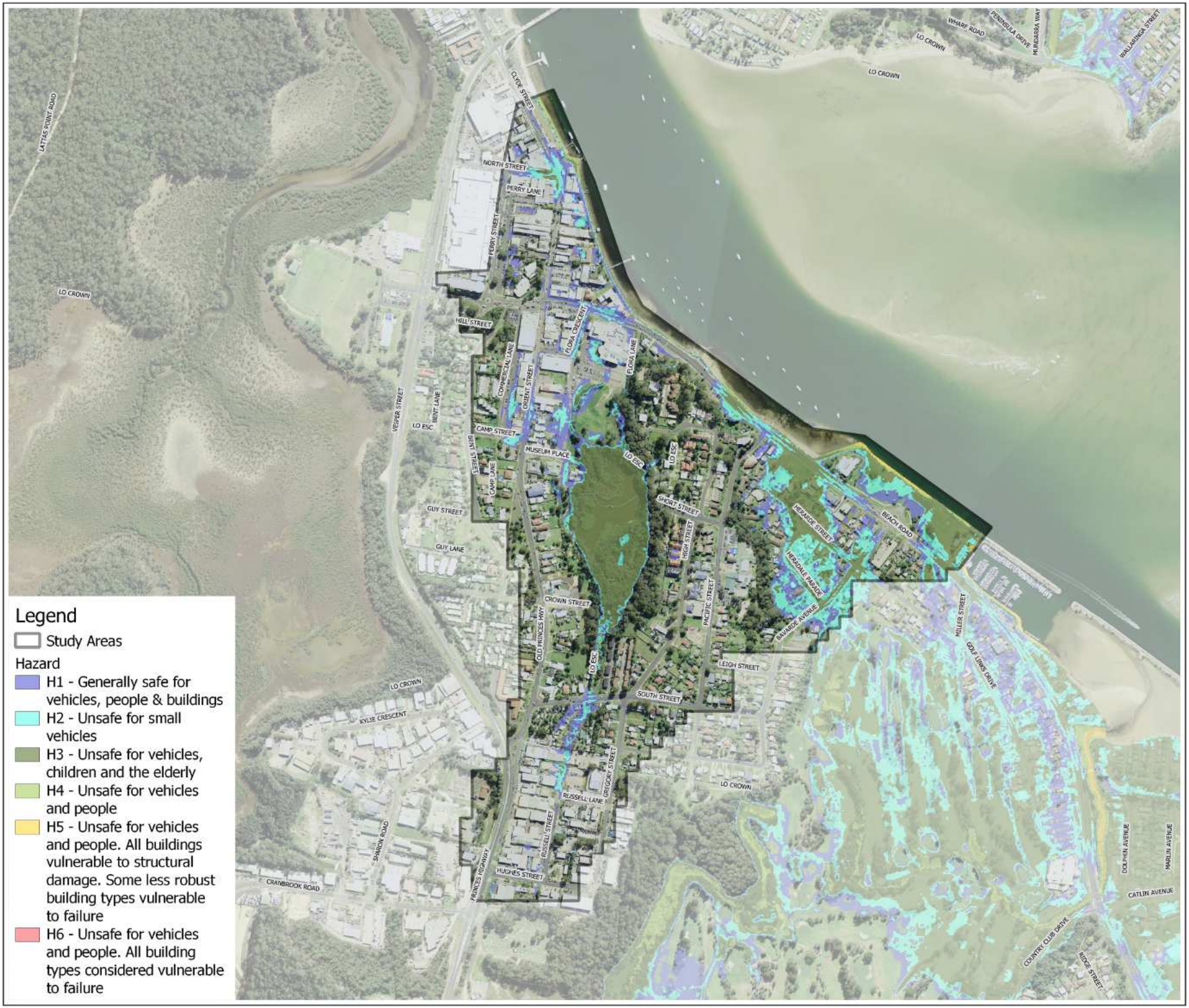
G803-d-1
Water Gardens
PMF Hazard

0 100 200 300 m

1:7500

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

Rhelm



N
W E
S

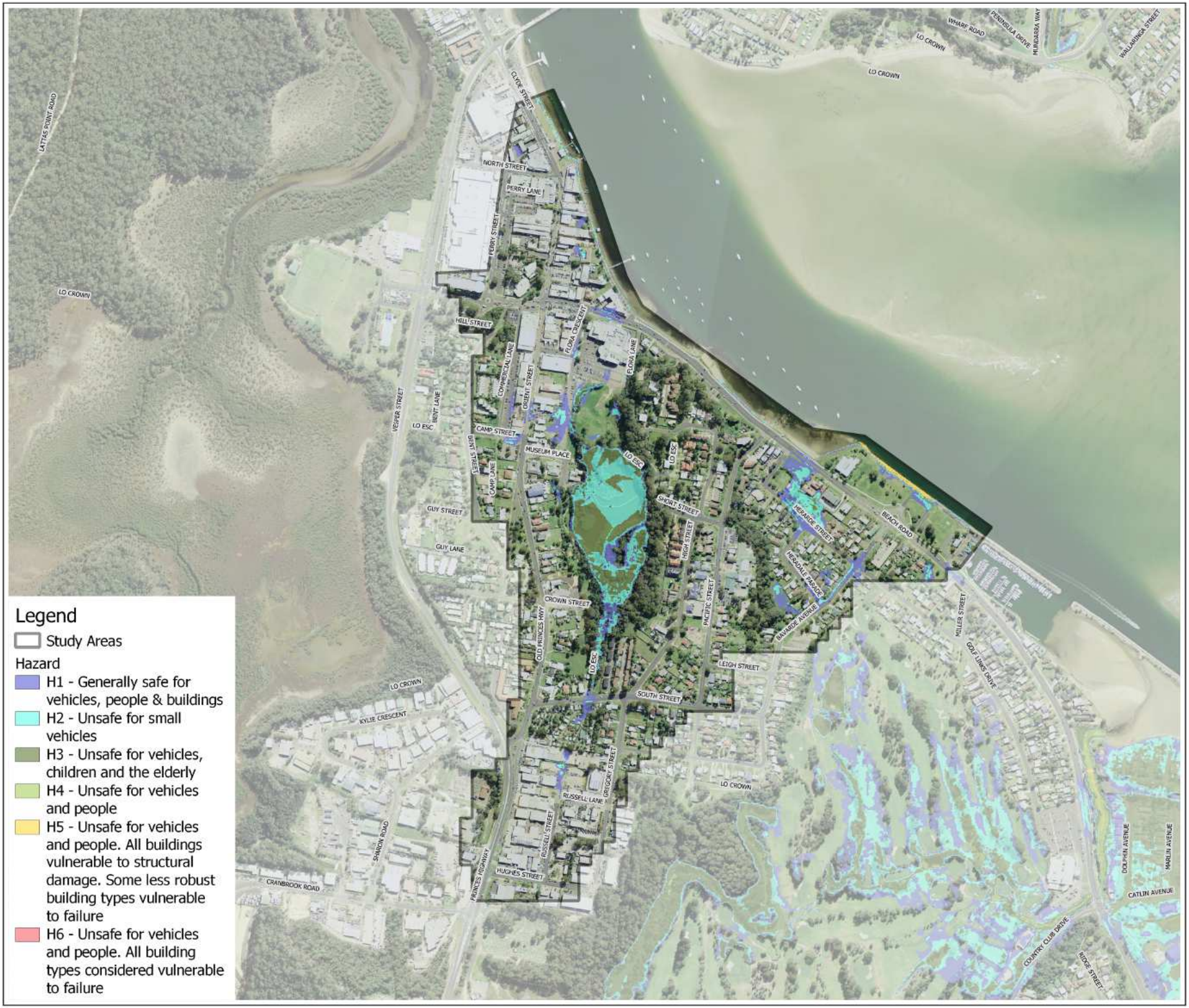
G803-d-2
Water Gardens
1% AEP Hazard

0 100 200 300 m

1:7500

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

Rhelm



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

N

W E

S

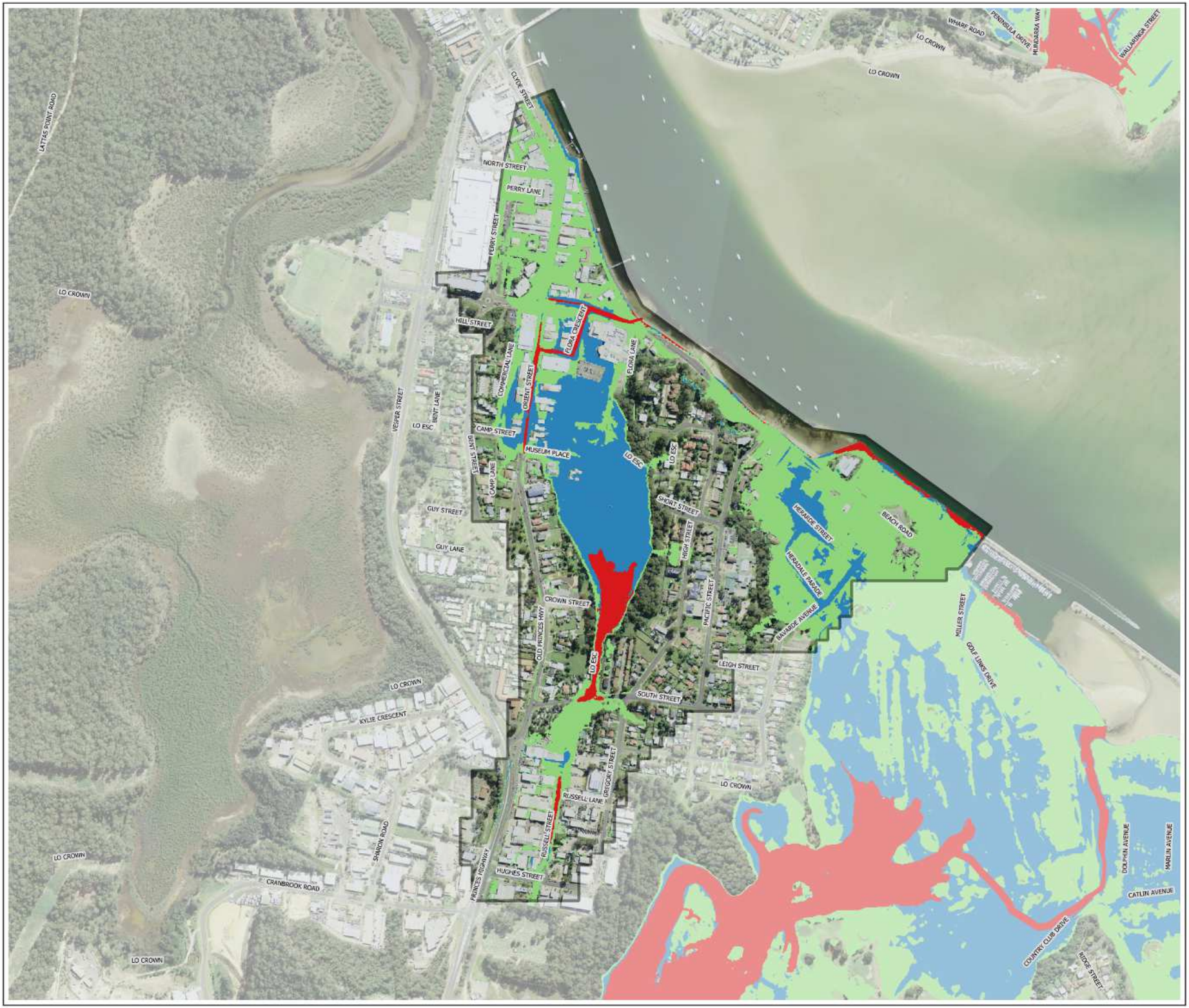
G803-d-3
Water Gardens
10% AEP Hazard

0 100 200 300 m

1:7500

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

Rhelm



N

W E

S

G804-d-1
Water Gardens
PMF Flood Function

Legend

- Study Areas

Flood Function

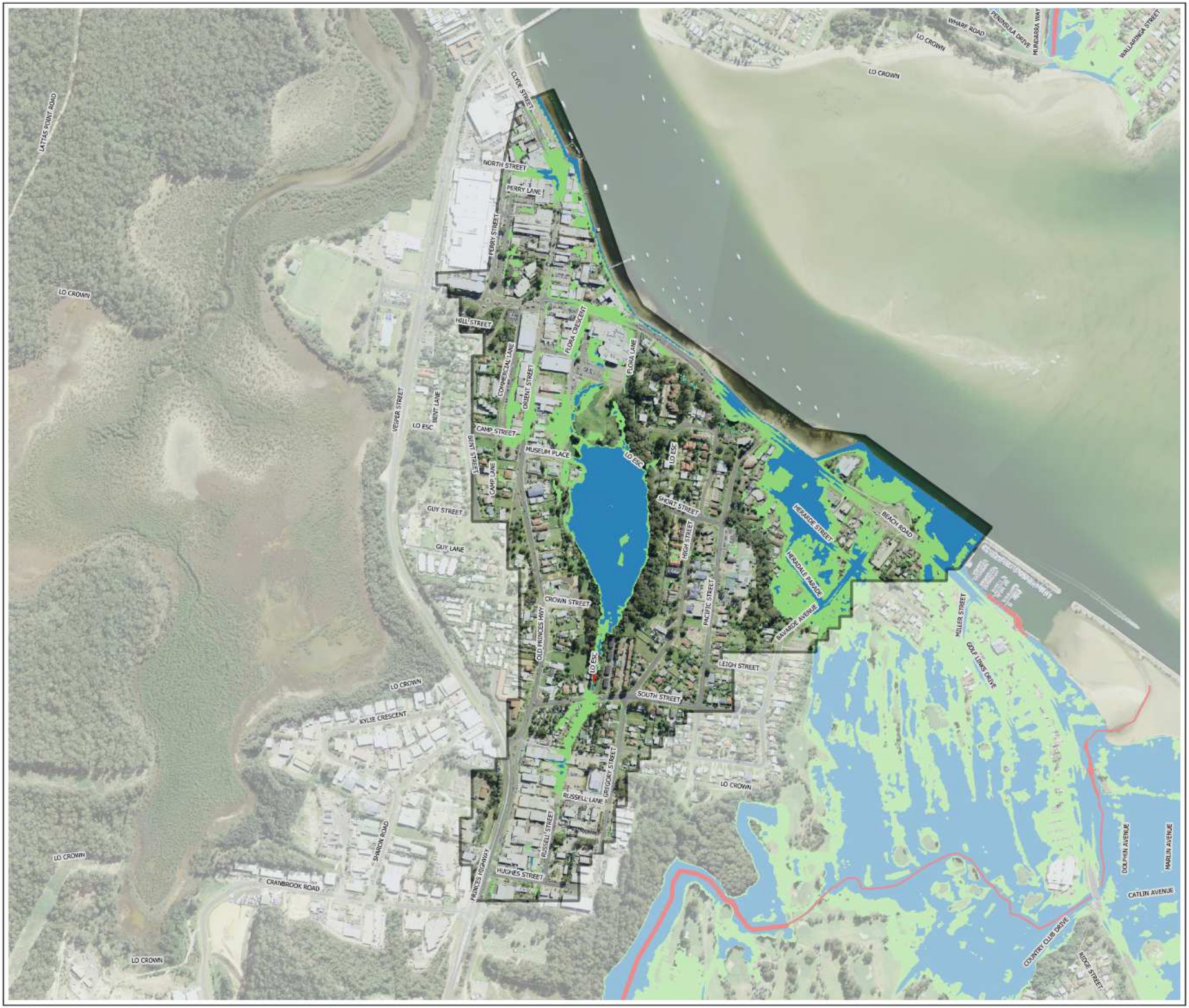
- Floodway
- Storage
- Fringe

0 100 200 300 m

1:7500

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

Rhelm



N

W E

S

G804-d-2 Water Gardens 1% AEP Flood Function

Legend

- Study Areas

Flood Function

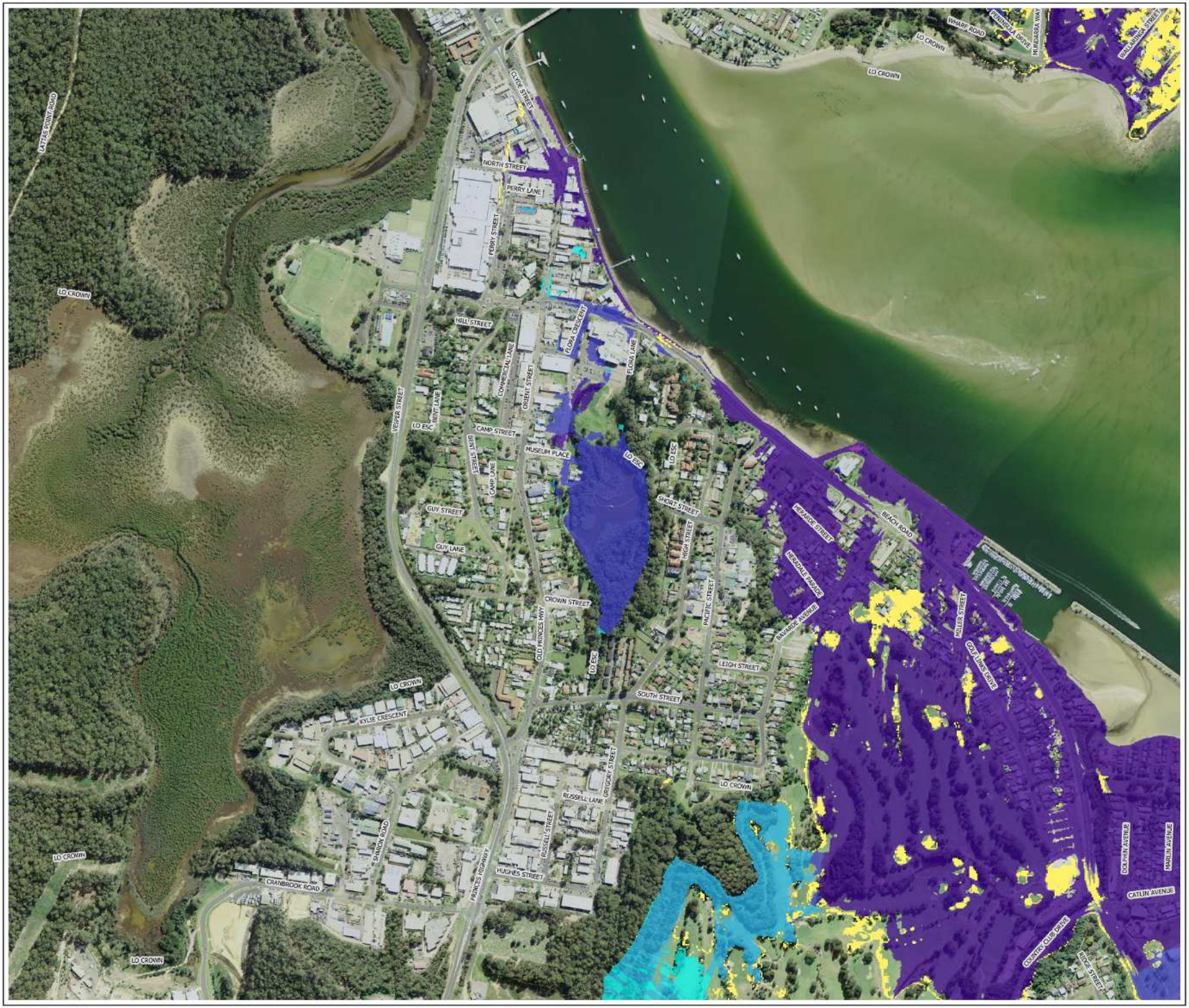
- Floodway
- Storage
- Fringe

0 100 200 300 m

1:7500

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

Rhelm



N

W E

S

G805-d-1
Water Gardens
1% AEP 0.35m SLR Impacts (2050 Scenario)

Legend

Study Area

Water Level Difference (m)

Was dry, now wet

0 100 200 300 m

1:7500

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

Rhelm

N
W E
S

G805-d-2
Water Gardens
5% AEP 0.35m SLR Impacts (2050 Scenario)

Legend

- Study Areas

Water Level Difference (m)

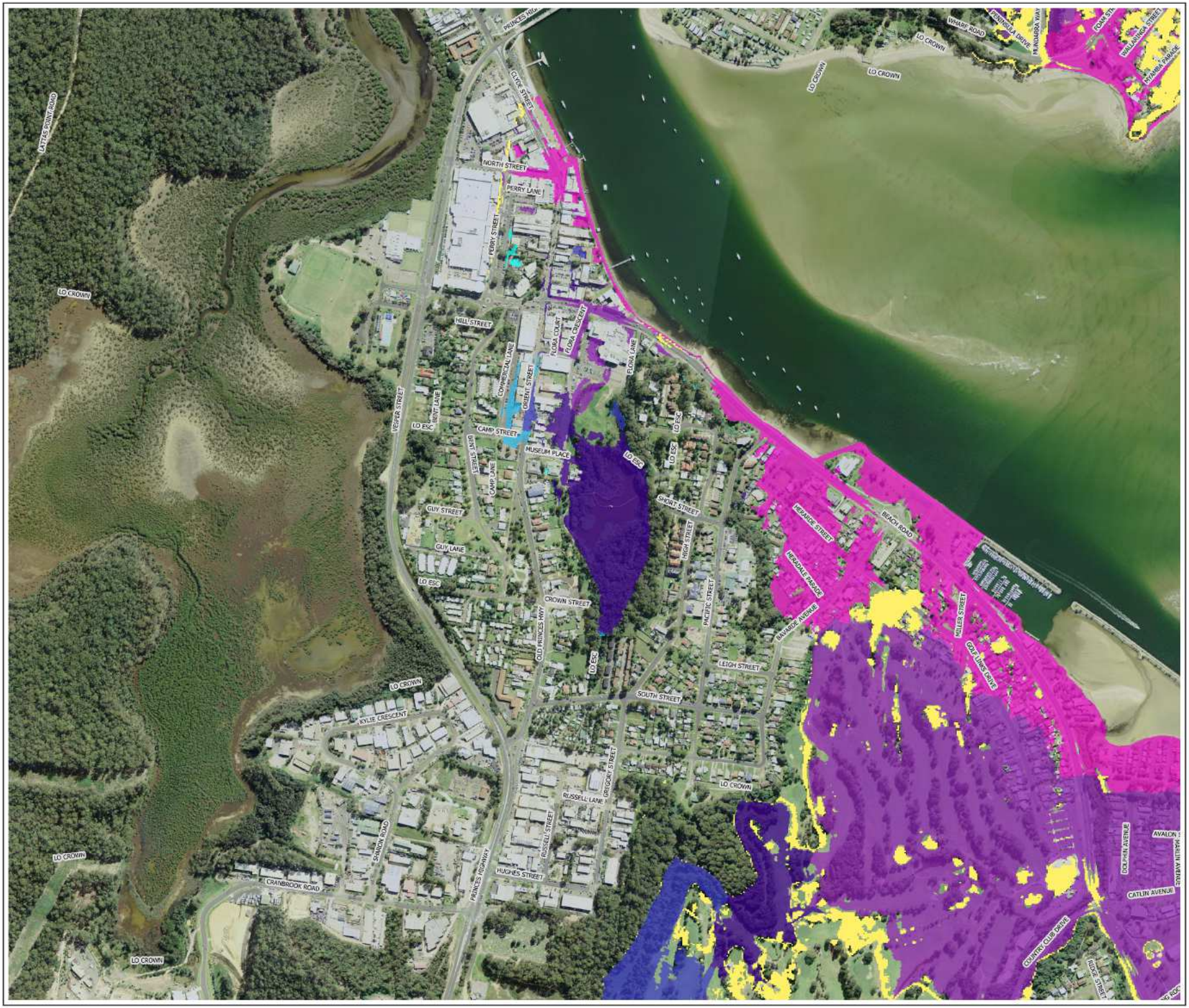
- <= 0.01
- 0.01 - 0.05
- 0.05 - 0.1
- 0.1 - 0.2
- 0.2 - 0.4
- 0.4 - 0.6
- > 0.6
- Was dry, now wet

0 100 200 300 m

1:7500

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

Rhelm



N

W E

S

G806-d
Water Gardens
0.72m SLR Impacts
(2100 Scenario)

Legend

Study Area

Water Level Difference (m)

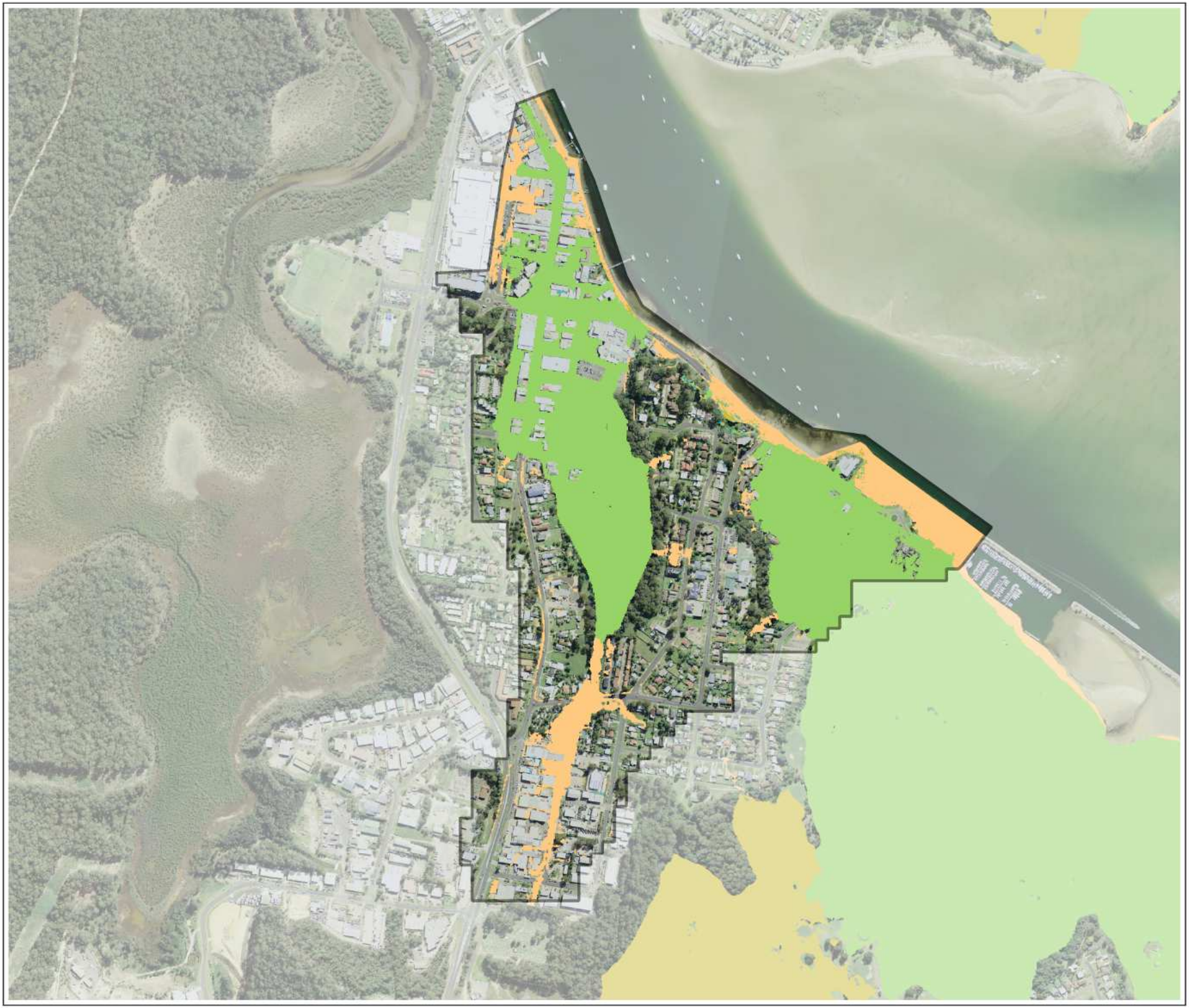
- <= 0.01
- 0.01 - 0.05
- 0.05 - 0.1
- 0.1 - 0.2
- 0.2 - 0.4
- 0.4 - 0.6
- > 0.6
- Was dry, now wet

0 100 200 300 m

1:7500

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

Rhelm



N
W E
S

G807-d-2
Water Gardens
PMF Critical Duration

Legend
- Study Areas

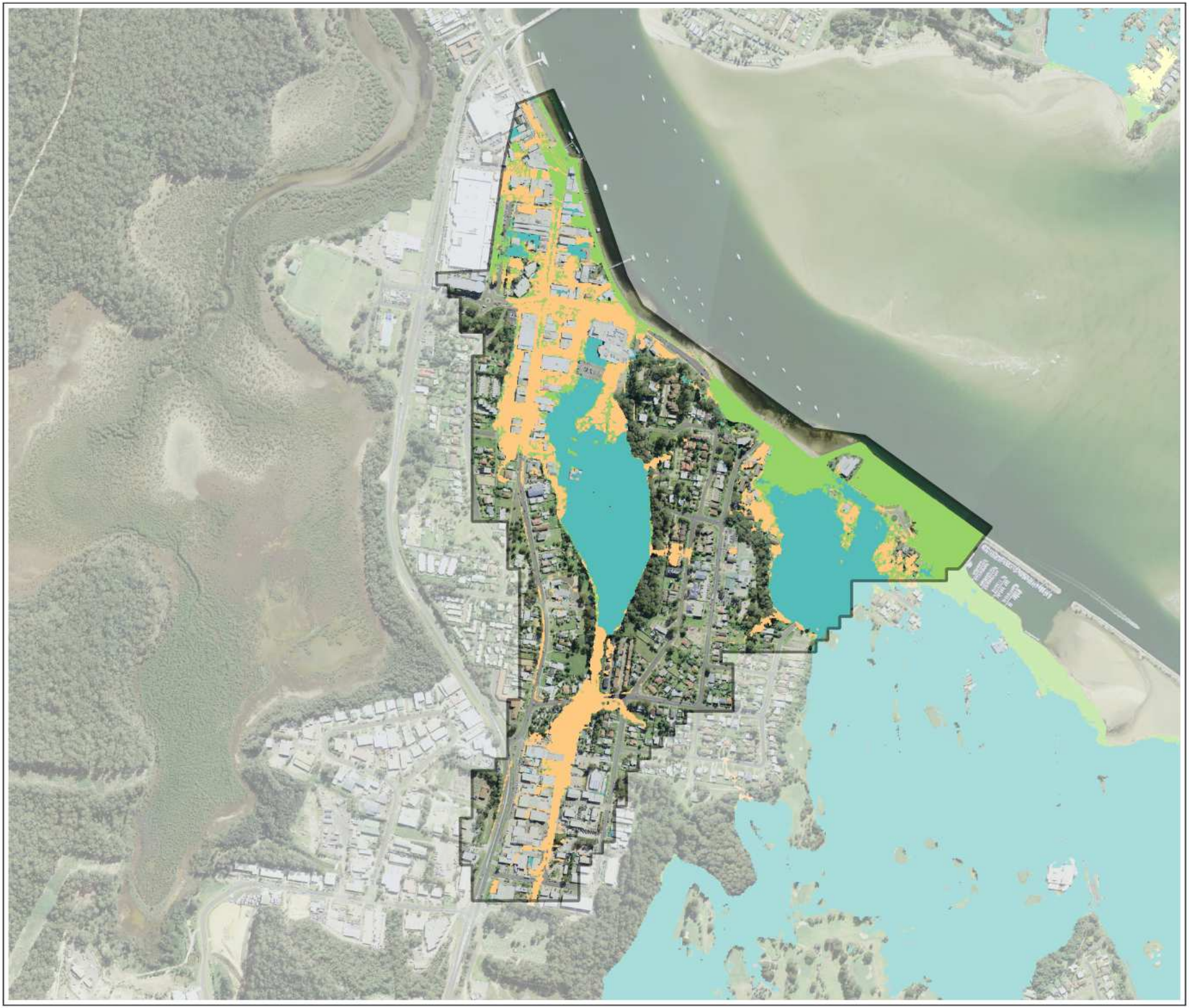
Critical Duration
- 60 minute
- 90 minute
- 120 minute
- 180 minute

0 100 200 300 m

1:7500

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

Rhelm



N
W E
S

G807-d-2
Water Gardens
1% AEP Critical Duration

Legend

- Study Areas

Critical Duration

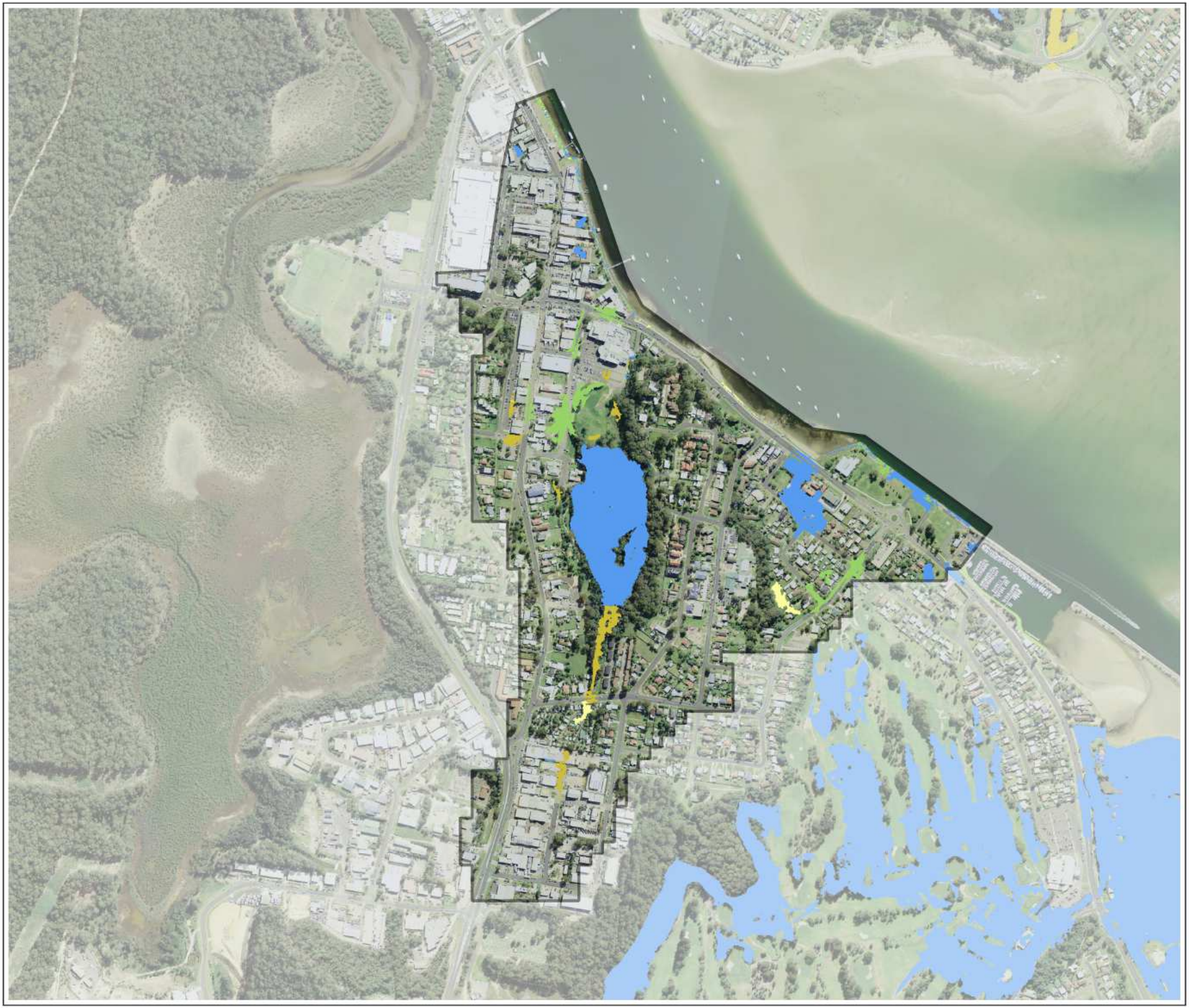
- 30 minute
- 60 minute
- 120 minute
- 180 minute

0 100 200 300 m

1:7500

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

Rhelm



N
W E
S

G807-d-2
Water Gardens
10% AEP Critical Duration

Legend

- Study Areas

Critical Duration

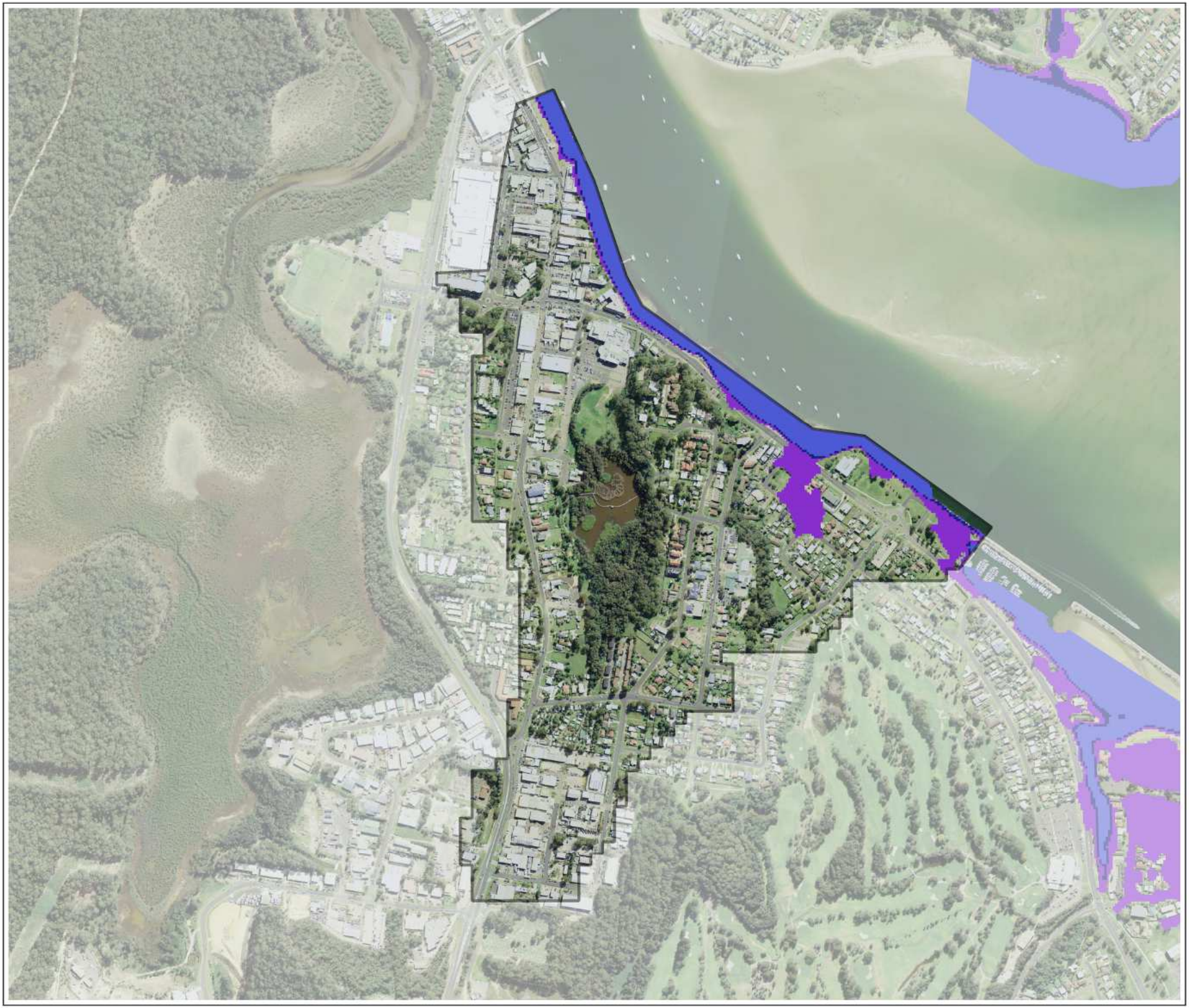
- 30 minute
- 90 minute
- 120 minute
- 270 minute

0 100 200 300 m

1:7500

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

Rhelm



N
W E
S

G807-d
Water Gardens
Tidal Inundation

Legend

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

0 100 200 300 m

1:7500

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

Rhelm

N
W E
S

G901-d
Water Gardens
Flood Planning Area

Legend

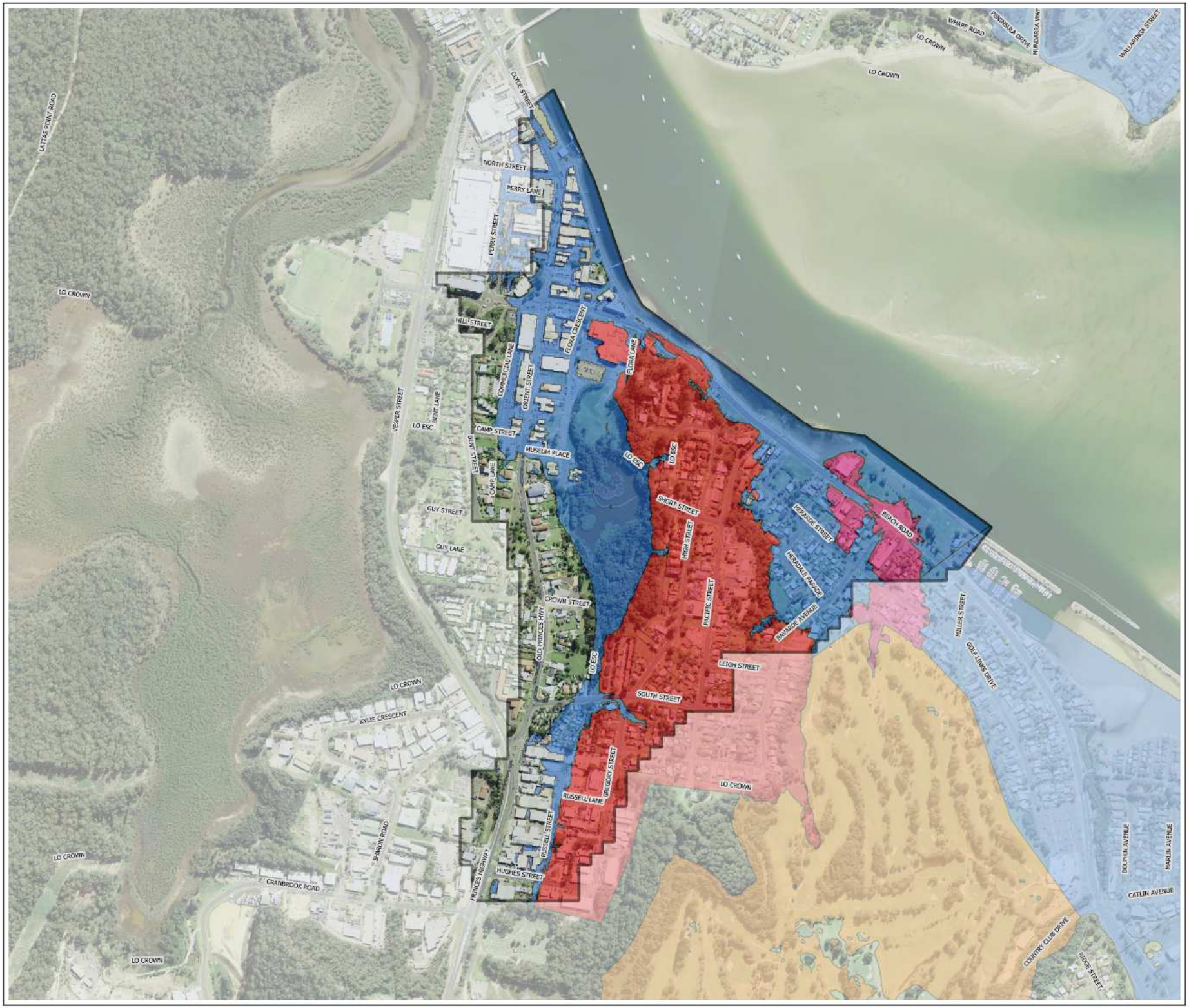
- Study Areas
- Existing 1% AEP +0.5m
- 0.35m SLR 1% AEP +0.5m
- 0.72m SLR 1% AEP +0.5m
- PMF Extent

0 100 200 300 m

1:7500

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

Rhelm



N

W E

S

G902-d-1
Water Gardens
PMF Flood Emergency Response Classifications

Legend

- Study Areas

Classifications

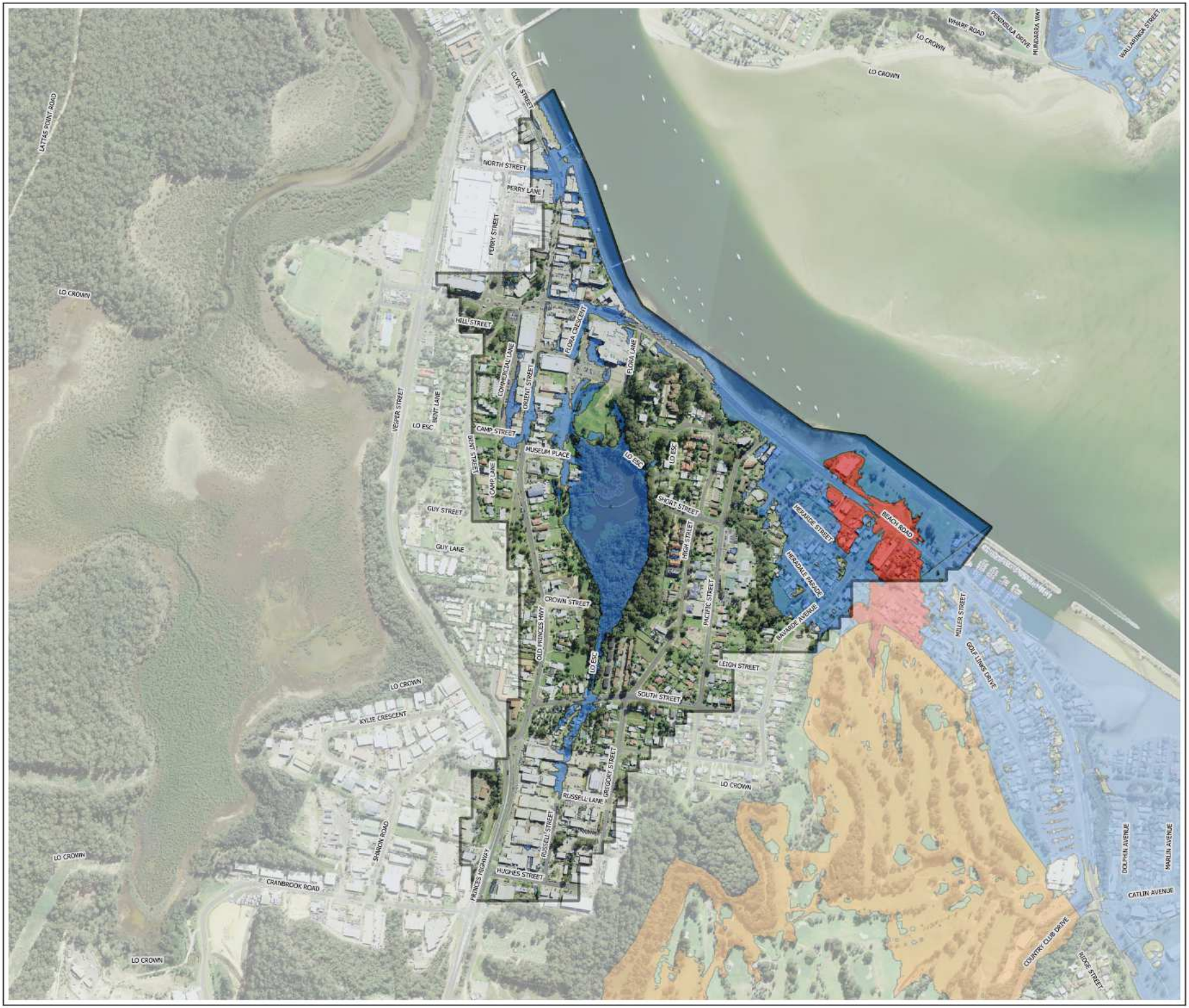
- Flooded Rising Road
- Flooded Overland Escape
- Isolated, Elevated
- Isolated, Submerged

0 100 200 300 m

1:7500

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

Rhelm



N

W E

S

G902-d-2
Water Gardens
1% AEP Flood
Emergency Response
Classifications

Legend

- Study Areas

Classifications

- Flooded Rising Road
- Flooded Overland Escape
- Isolated, Elevated
- Isolated, Submerged

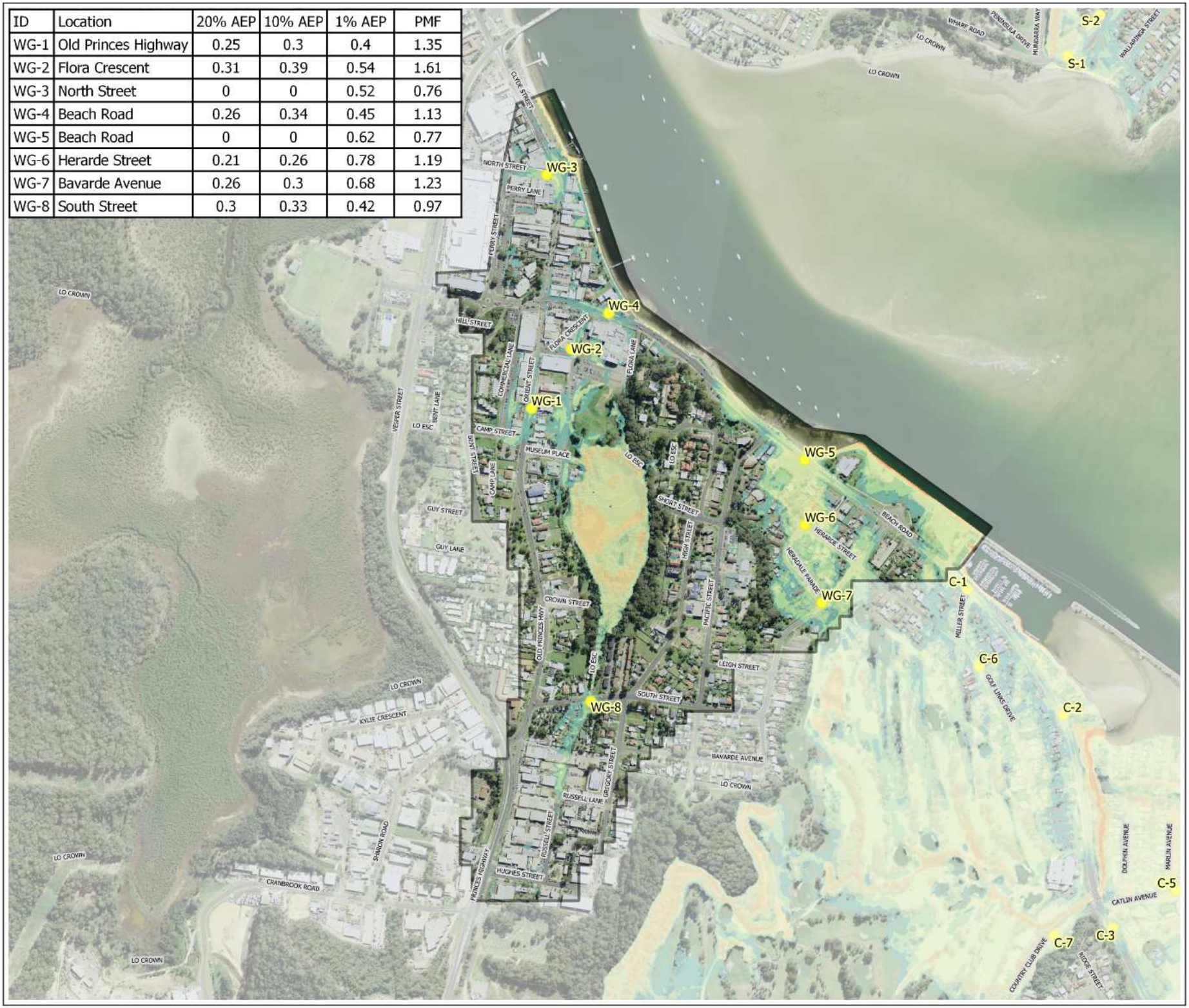
0 100 200 300 m

1:7500

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

Rhelm

ID	Location	20% AEP	10% AEP	1% AEP	PMF
WG-1	Old Princes Highway	0.25	0.3	0.4	1.35
WG-2	Flora Crescent	0.31	0.39	0.54	1.61
WG-3	North Street	0	0	0.52	0.76
WG-4	Beach Road	0.26	0.34	0.45	1.13
WG-5	Beach Road	0	0	0.62	0.77
WG-6	Herarde Street	0.21	0.26	0.78	1.19
WG-7	Bavarde Avenue	0.26	0.3	0.68	1.23
WG-8	South Street	0.3	0.33	0.42	0.97



N
W E
S

G903-d
Water Gardens
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

0 100 200 300 m

1:7500

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

Rhelm

N

W E

S

T002-d Water Gardens Pump Station Affectation

Legend

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

Pump Station Affectation

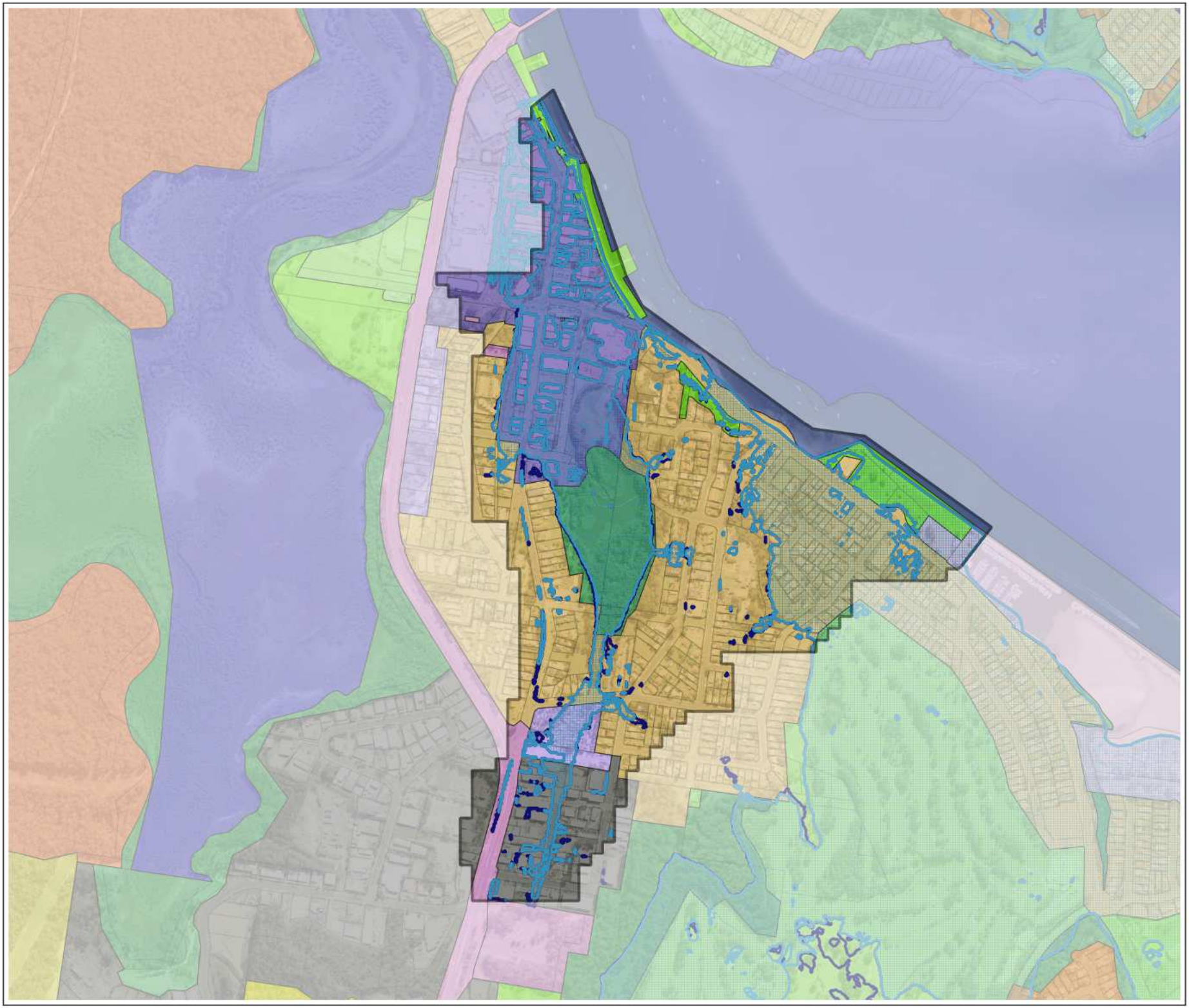
- Flooded in 10% AEP
- Flooded in 1% AEP
- Flooded in PMF
- Flood Free

0 100 200 300 m

1:7,500

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

Rhelm
engineering | environmental | economics | engagement



N
W E
S

G905-d
Water Gardens
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	

0 100 200 300 m

1:7500

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

Rhelm