



## G801-b-1 Long Beach 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 80 160 240 m

1:5,000

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R h e l m





**G801-b-2  
Long Beach  
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



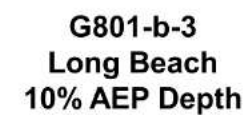
0 80 160 240 m

1:5000

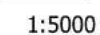
Size : A3  
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**R h e l m**





10



Size : A3  
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# G802-b-1 Long Beach PMF Velocity

## Legend

Study Areas

Velocity (m/s)

0 - 0.5

0.5 - 1

1 - 2

2 - 3

3 - 4

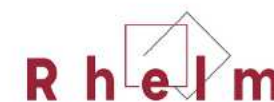
> 4



0 80 160 240 m

1:5000

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**G802-b-2  
Long Beach  
1% AEP Velocity**

**Legend**

Study Areas

Velocity (m/s)

0 - 0.5

0.5 - 1

1 - 2

2 - 3

3 - 4

> 4



0 80 160 240 m

1:5000

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**G802-b-3  
Long Beach  
10% AEP Velocity**

**Legend**

Study Areas

Velocity (m/s)

0 - 0.5

0.5 - 1

1 - 2

2 - 3

3 - 4

> 4



0 80 160 240 m



1:5000

Size : A3  
Date : 15 June 2020  
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Coordinate System : MGA 56

**R h e l m**







**G803-b-2  
Long Beach  
1% AEP Hazard**



0 80 160 240 m

1:5000

Size : A3  
Date : 15 June 2020  
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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





**G803-b-3  
Long Beach  
10% AEP Hazard**



0 80 160 240 m

1:5000

Size : A3  
Date : 15 June 2020  
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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-b-1  
Long Beach  
PMF Flood Function**

**Legend**

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



0 80 160 240 m

1:5000

Size : A3  
Date : 15 June 2020  
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Coordinate System : MGA 56

**R h e l m**







**G804-b-2  
Long Beach  
1% AEP Flood  
Function**

**Legend**

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



0 80 160 240 m



1:5000

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







**G805-b-1  
Long Beach  
1% AEP 0.35m SLR  
Impacts  
(2050 Scenario)**

**Legend**

Study Area

Water Level Difference (m)

Was dry, now wet



0 80 160 240 m

1:5000

Size : A3  
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**R h e l m**







**G805-b-2  
Long Beach  
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 80 160 240 m

1:5000

Size : A3  
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**R h e l m**







**G806-b  
Long Beach  
0.72m SLR Impacts  
(2100 Scenario)**

**Legend**

Study Area

Water Level Difference (m)

- $\leq 0.01$
- 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 80 160 240 m



1:5000

Size : A3  
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**G807-b-2  
Long Beach  
PMF Critical Duration**


**Legend**


 Study Areas

Critical Duration

 60 minute

 90 minute

 120 minute

 180 minute



0 80 160 240 m



1:5000

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**R h e l m**







**G807-b-2  
Long Beach  
1% AEP Critical  
Duration**


**Legend**


 Study Areas

Critical Duration

 30 minute

 60 minute

 120 minute

 180 minute



0 80 160 240 m



1:5000

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**R h e l m**







**G807-b-2  
Long Beach  
10% AEP Critical  
Duration**


**Legend**


 Study Areas

Critical Duration

 30 minute

 90 minute

 120 minute

 270 minute



0 80 160 240 m



1:5000

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Revision : A  
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**R h e l m**





# **G807-b Long Beach Tidal Inundation**

## **Legend**

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



0 80 160 240 m



1:5000

Size : A3  
Date : 15 June 2020  
Revision : A  
Created by : LRE  
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# **G901-b Long Beach 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 80 160 240 m



1:5000

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







# G902-b-1 Long Beach PMF Flood Emergency Response Classifications

## Legend

Study Areas

Classifications

Flooded Rising Road

Flooded Overland Escape

Isolated, Elevated

Isolated, Submerged



0 80 160 240 m

1:5000

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

Rhelm





**G902-b-2  
Long Beach  
1% AEP Flood  
Emergency Response  
Classifications**

**Legend**

Study Areas

Classifications

Flooded Rising Road

Flooded Overland Escape

Isolated, Elevated

Isolated, Submerged



0 80 160 240 m

1:5000

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

**R h e l m**





ID	Location	20% AEP	10% AEP	1% AEP	PMF
LB-1	Sandy Place	0	0	0	1.42
LB-3	Longbeach Road	0	0	0	0.36
LB-2	Sandy Place	0	0	0	1.08



**G903-b  
Long Beach  
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 80 160 240 m  
1:5000

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







## T002-b Long Beach 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 80 160 240 m

1:5,000

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







# **G905-b Long Beach 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 80 160 240 m



1:5000

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

