

Appendix F

Erosion and inundation risk maps

380500

382000

Legend

Local Government
Authority Boundary

Risk Level

Extreme
High
Medium
Low

PRESENT DAY EROSION

6454000

6454000

6452500

6452500

6451000

6451000



400 200 0 400
scale in metres

Projection : UTM50 - Datum : GDA94

Produced by BMT Oceanica

Production : 07 Jul 2014, KT, AT, AT

Imagery : Oce 05 Mar 2008

Project Ref : 1033_001_03cofRskEPresA4

**Cockburn Sound
Coastal Alliance**

Positional accuracy
should be considered
as approximate.
Not for navigation.



BMT Oceanica

This map indicates coastal areas that may be susceptible to erosion currently, or in the future as a result of ongoing sea-level rise and climate change, and should be used as a guide only. This indicative mapping is based on data that was available at the time of the Stage 1 Assessment only. BMT, Oceanica, the Cockburn Sound Coastal Alliance and its member Local Government Authorities and agencies and any other custodians of datasets used in this assessment make no representations, warranties or undertakings about any of the information provided on these maps including, without limitation, their accuracy, their completeness or their quality or fitness for any particular purpose.

380500

382000

380500

382000

Legend

Local Government
Authority Boundary

Risk Level

Extreme
High
Medium
Low

2070 EROSION

CITY OF FREMANTLE



400 200 0 400
scale in metres

Projection : UTM50 - Datum : GDA94

Produced by BMT Oceanica

Production : 07 Jul 2014, KT, AT, AT

Imagery : Oce 05 Mar 2008

Project Ref : 1033_001_03cofRskE2070A4

**Cockburn Sound
Coastal Alliance**

Positional accuracy
should be considered
as approximate.
Not for navigation.



BMT Oceanica

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380500

382000

6454000

6454000

6452500

6452500

6451000

6451000

380500

382000

Legend

Local Government
Authority Boundary

Risk Level

Extreme
High
Medium
Low

**2110
EROSION**

CITY OF FREMANTLE



400 200 0 400
scale in metres

Projection : UTM50 - Datum : GDA94

Produced by BMT Oceanica

Production : 07 Jul 2014, KT, AT, AT

Imagery : Oce 05 Mar 2008

Project Ref : 1033_001_03cofRskE2110A4

**Cockburn Sound
Coastal Alliance**

**Positional accuracy
should be considered
as approximate.
Not for navigation.**



BMT Oceanica

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380500

382000

6454000

6454000

6452500

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6451000

6451000

380500

382000

Legend

Local Government
Authority Boundary

Risk Level

- Extreme
- High
- Medium
- Low

PRESENT DAY INUNDATION

CITY OF FREMANTLE



400 200 0 400
scale in metres

Projection : UTM50 - Datum : GDA94
Produced by BMT Oceanica
Production : 07 Jul 2014, KT, AT, AT
Imagery : Oce 05 Mar 2008
Project Ref : 1033_001_03cofRskIPresA4

**Cockburn Sound
Coastal Alliance**

**Positional accuracy
should be considered
as approximate.
Not for navigation.**



BMT Oceanica

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380500

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380500

382000

Legend

Local Government
Authority Boundary

Risk Level

- Extreme
- High
- Medium
- Low

2070 INUNDATION

CITY OF FREMANTLE



400 200 0 400
scale in metres

Projection : UTM50 - Datum : GDA94
Produced by BMT Oceanica
Production : 07 Jul 2014, KT, AT, AT
Imagery : Oce 05 Mar 2008
Project Ref : 1033_001_03cofRskI2070A4

**Cockburn Sound
Coastal Alliance**

Positional accuracy
should be considered
as approximate.
Not for navigation.



BMT Oceanica

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380500

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6452500

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6451000

380500

382000

Legend

Local Government
Authority Boundary

Risk Level

- Extreme
- High
- Medium
- Low

2110 INUNDATION

CITY OF FREMANTLE



400 200 0 400
scale in metres

Projection : UTM50 - Datum : GDA94
Produced by BMT Oceanica
Production : 07 Jul 2014, KT, AT, AT
Imagery : Oce 05 Mar 2008
Project Ref : 1033_001_03cofRskI2110A4

**Cockburn Sound
Coastal Alliance**

Positional accuracy
should be considered
as approximate.
Not for navigation.



BMT Oceanica

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380500

382000

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6452500

6452500

6451000

6451000

381800

383800

Legend

Local Government
Authority Boundary

Risk Level

- Extreme
- High
- Medium
- Low

**PRESENT DAY
EROSION***Owen**Anchorage*

CITY OF FREMANTLE

CITY OF COCKBURN



400 200 0 400
scale in metres

Projection : UTM50 - Datum : GDA94

Produced by BMT Oceanica

Production : 07 Jul 2014, KaC, AT, AT

Imagery : Oce 05 Mar 2008

Project Ref : 1033_001_03cocRskEPres1A4

**Cockburn Sound
Coastal Alliance**

Positional accuracy
should be considered
as approximate.
Not for navigation.

**BMT Oceanica**

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381800

383800

6450000

6448000

6446000

6450000

6448000

6446000

382000

384000

6444000

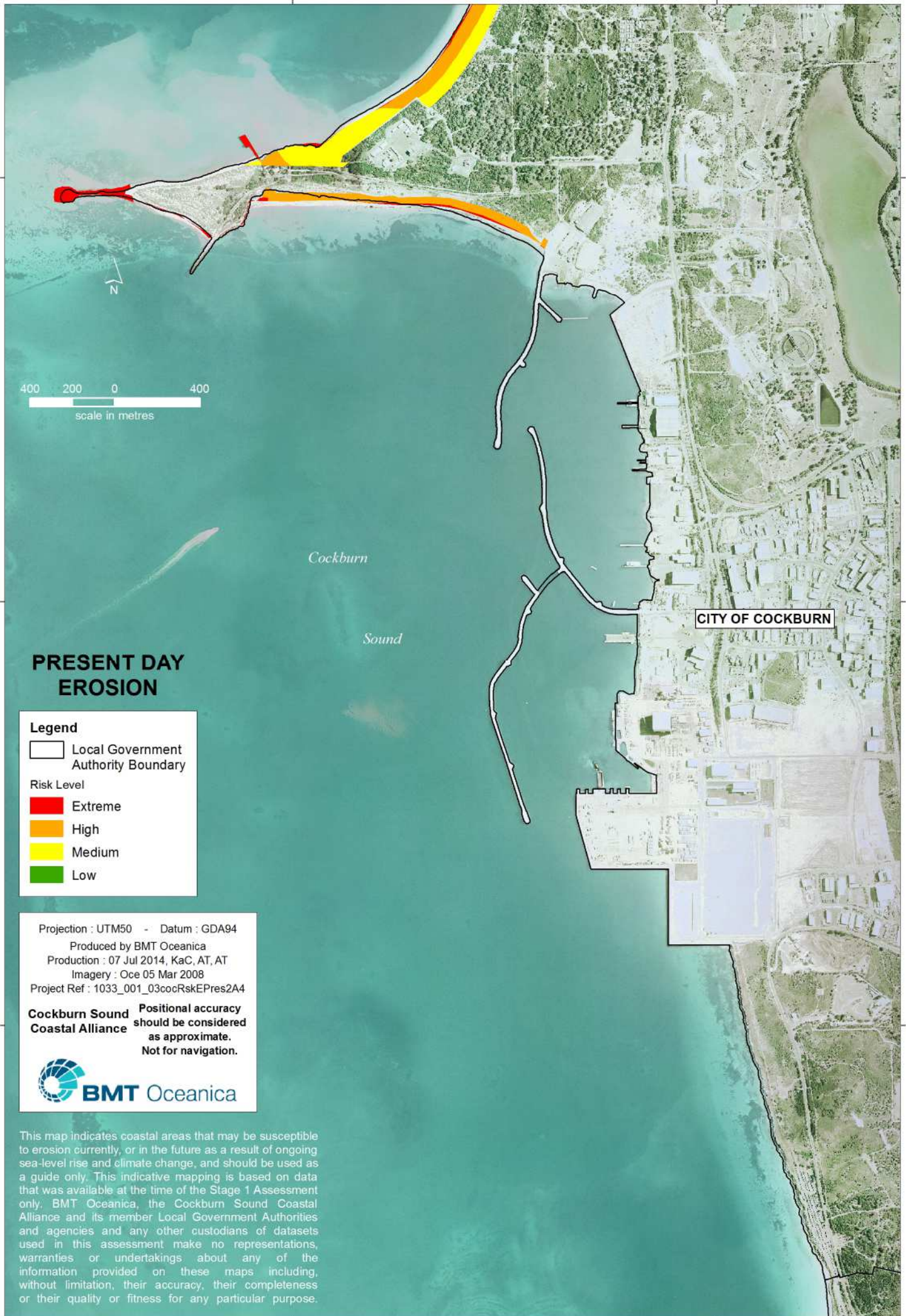
6444000

6442000

6442000

6440000

6440000



382000

384000

381800

383800

Legend

Local Government
Authority Boundary

Risk Level

- Extreme
- High
- Medium
- Low

2070 EROSION

*Owen**Anchorage*

CITY OF FREMANTLE

CITY OF COCKBURN



400 200 0 400
scale in metres

Projection : UTM50 - Datum : GDA94

Produced by BMT Oceanica

Production : 07 Jul 2014, KaC, AT, AT

Imagery : Oce 05 Mar 2008

Project Ref : 1033_001_03cocRskE20701A4

**Cockburn Sound
Coastal Alliance**

Positional accuracy
should be considered
as approximate.
Not for navigation.

**BMT Oceanica**

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381800

383800

6450000

6448000

6446000

6450000

6448000

6446000

382000

384000

644000

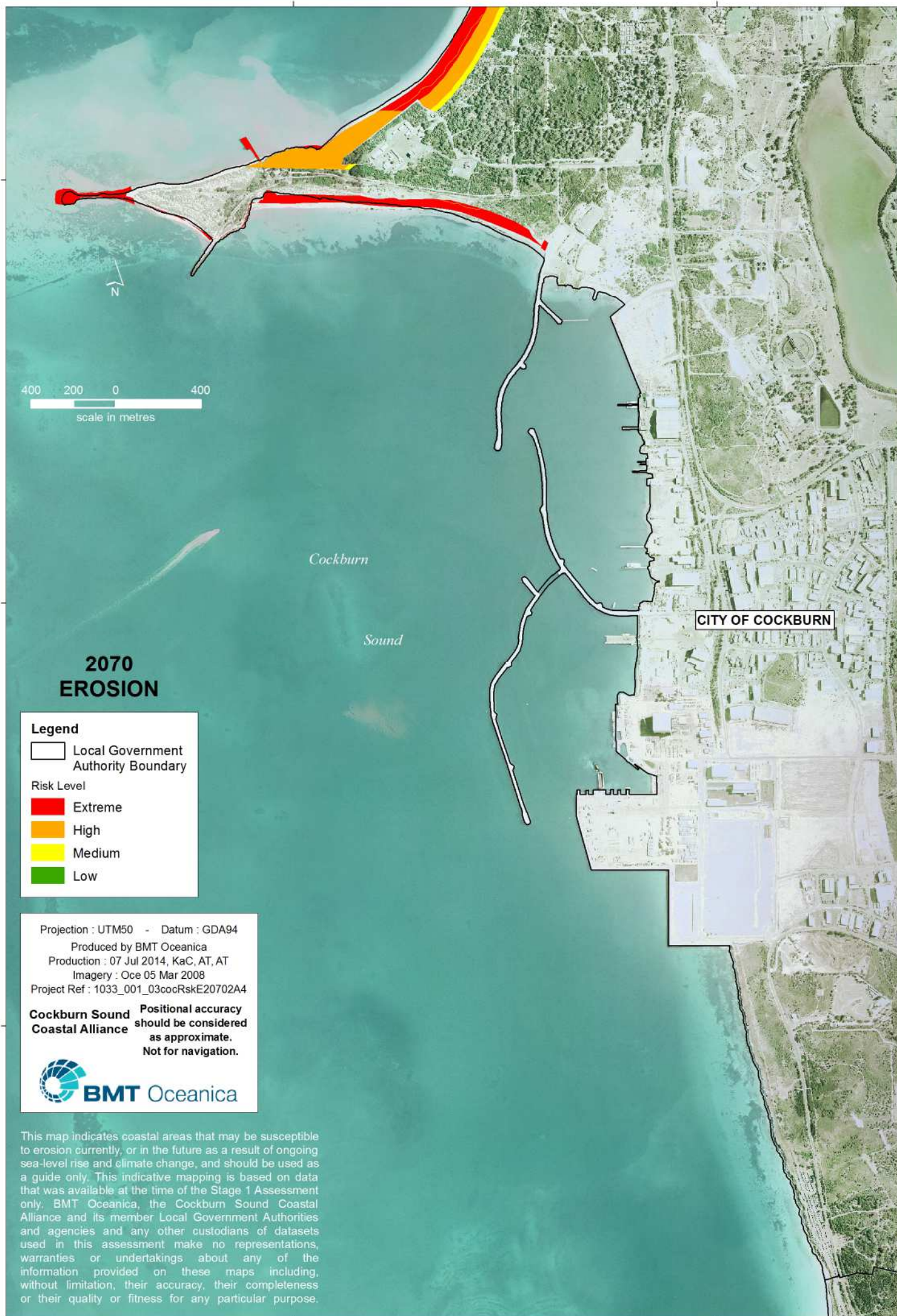
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6442000

6442000

6440000

6440000



382000

384000

381800

383800

Legend

Local Government
Authority Boundary

Risk Level

- Extreme
- High
- Medium
- Low

2110 EROSION

*Owen**Anchorage*

CITY OF FREMANTLE

CITY OF COCKBURN



400 200 0 400
scale in metres

Projection : UTM50 - Datum : GDA94

Produced by BMT Oceanica

Production : 07 Jul 2014, KaC, AT, AT

Imagery : Oce 05 Mar 2008

Project Ref : 1033_001_03cocRskE21101A4

**Cockburn Sound
Coastal Alliance**

Positional accuracy
should be considered
as approximate.
Not for navigation.

**BMT Oceanica**

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381800

383800

6450000

6450000

6448000

6448000

6446000

6446000

382000

384000

644000

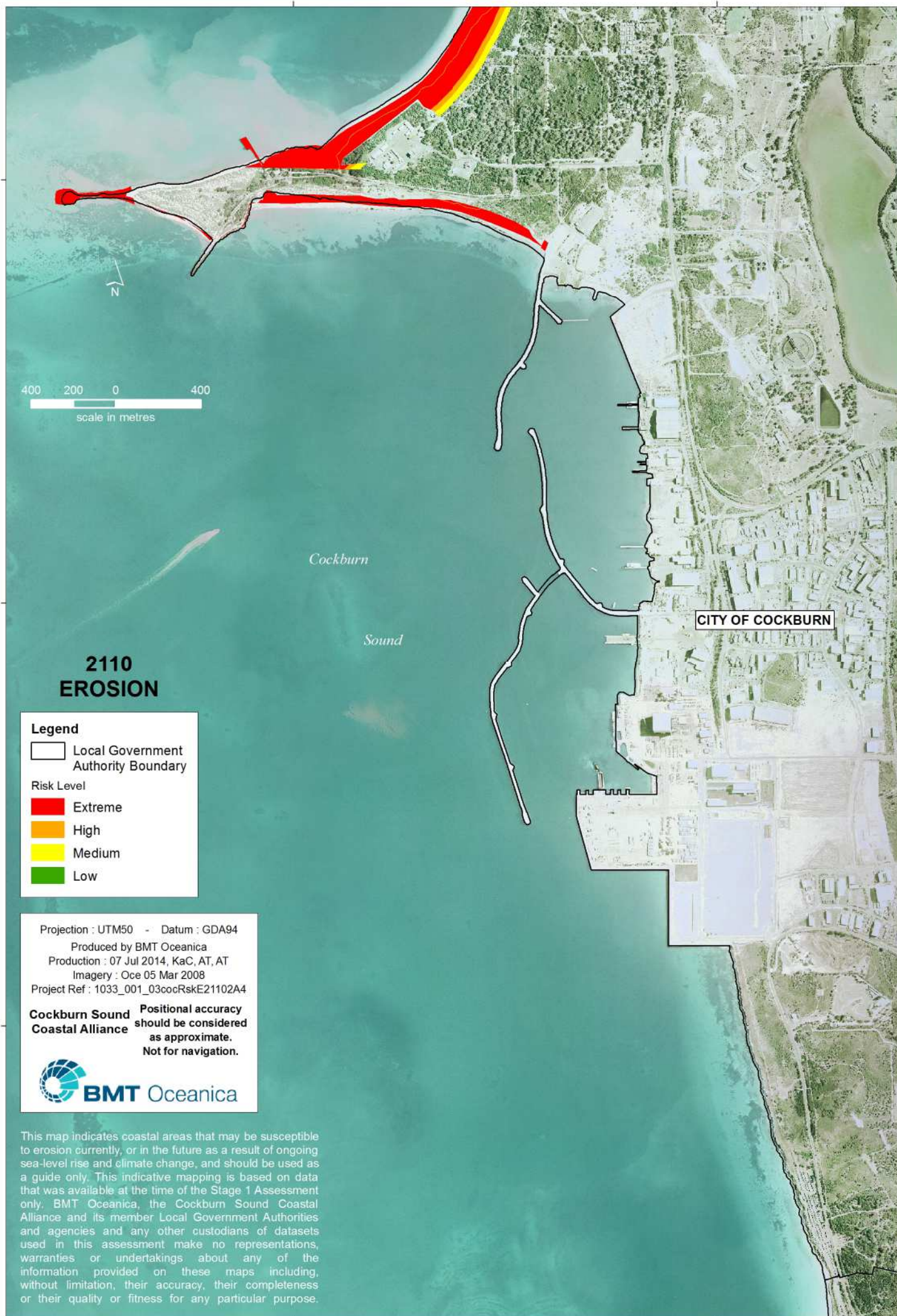
644000

6442000

6442000

6440000

6440000





2110 EROSION

Legend

 Local Government
Authority Boundary

Risk Level

 Extreme
 High
 Medium
 Low

Projection : UTM50 - Datum : GDA94

Produced by BMT Oceanica

Production : 07 Jul 2014, KaC, AT, AT

Imagery : Oce 05 Mar 2008

Project Ref : 1033_001_03cocRskE21102A4

**Cockburn Sound
Coastal Alliance**

Positional accuracy
should be considered
as approximate.
Not for navigation.



BMT Oceanica

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382000

384000

381800

383800

Legend

Local Government
Authority Boundary

Risk Level

- Extreme
- High
- Medium
- Low

**PRESENT DAY
INUNDATION**

CITY OF FREMANTLE

CITY OF COCKBURN

*Owen**Anchorage*

400 200 0 400

scale in metres

Projection : UTM50 - Datum : GDA94

Produced by BMT Oceanica

Production : 07 Jul 2014, KaC, AT, AT

Imagery : Oce 05 Mar 2008

Project Ref : 1033_001_03cocRskIPres1A4

Cockburn Sound Coastal Alliance Positional accuracy
should be considered
as approximate.
Not for navigation.

**BMT Oceanica**

This map indicates coastal areas that may be susceptible to inundation currently, or in the future as a result of ongoing sea-level rise and climate change, and should be used as a guide only. This indicative mapping is based on data that was available at the time of the Stage 1 Assessment only. The digital elevation model utilised for the inundation modelling is based on LiDAR data captured on 25–29 February 2008 and supplied as-constructed levels for Port Coogee.

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381800

383800

6450000

6448000

6446000

6450000

6448000

6446000

382000

384000

644000

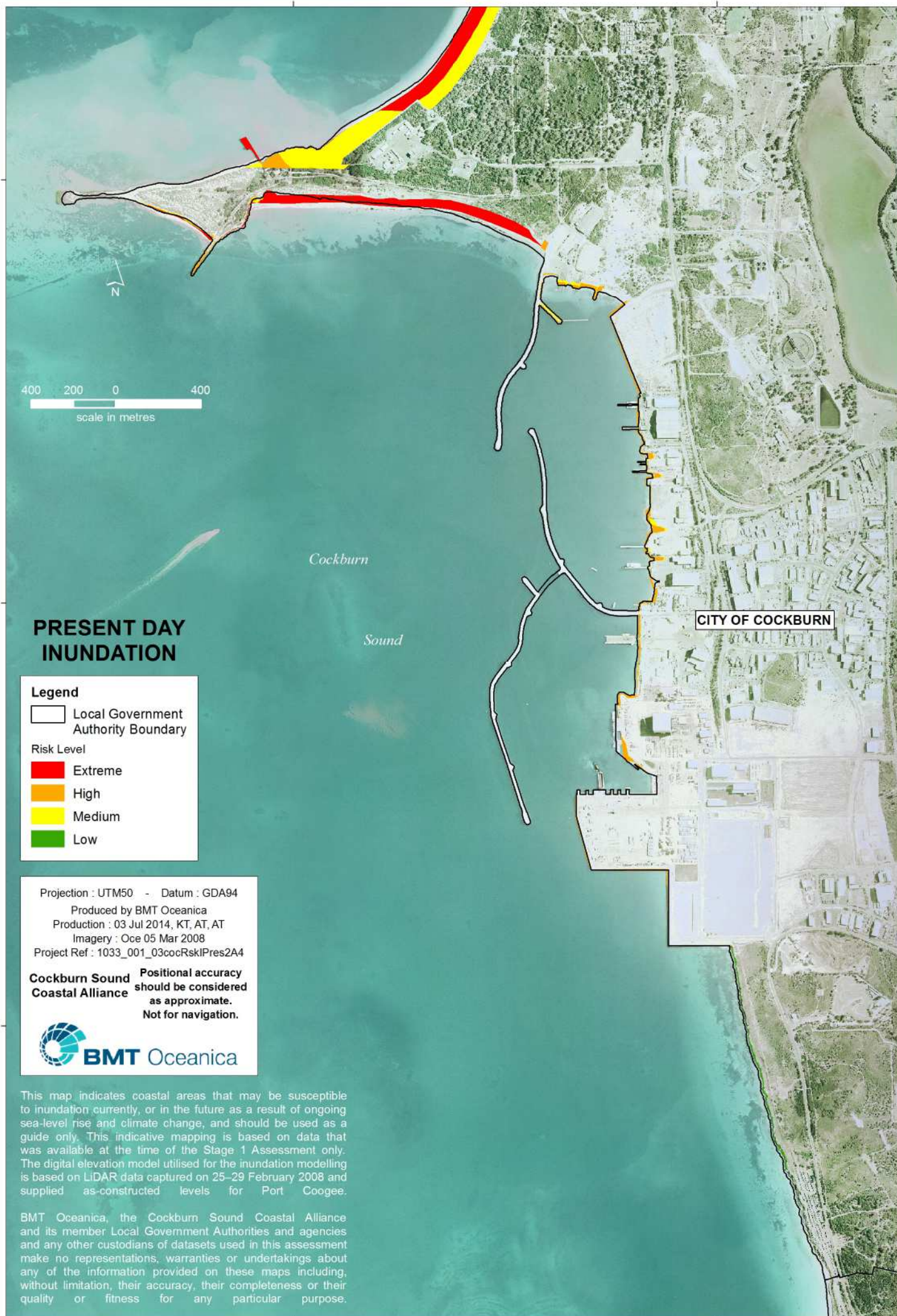
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6442000

6442000

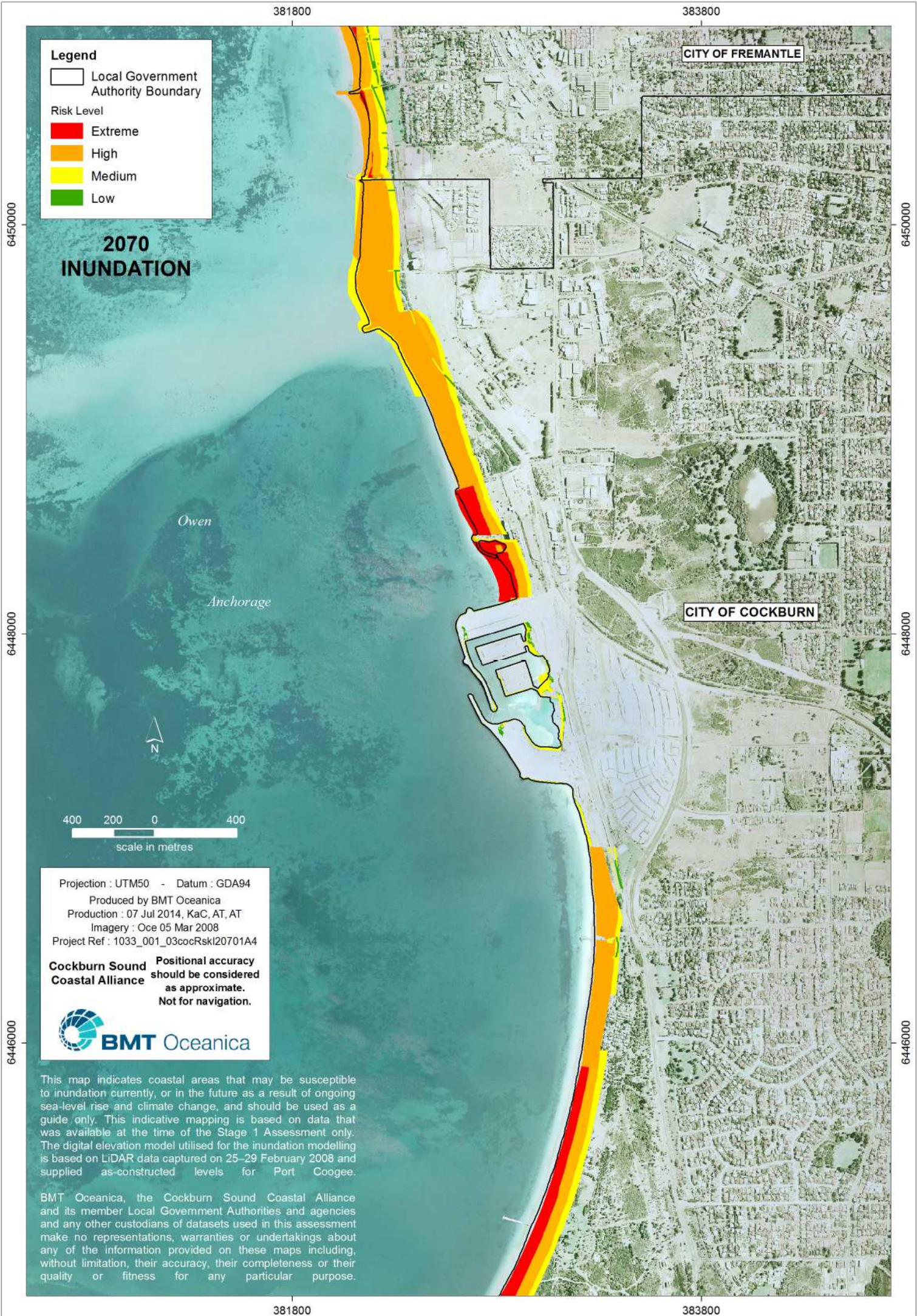
6440000

6440000



382000

384000



Legend

Local Government
Authority Boundary

Risk Level

- Extreme
- High
- Medium
- Low

**2070
INUNDATION**

CITY OF FREMANTLE

CITY OF COCKBURN

Owen

Anchorage

400 200 0 400
scale in metres

Projection : UTM50 - Datum : GDA94
Produced by BMT Oceanica
Production : 07 Jul 2014, KaC, AT, AT
Imagery : Oce 05 Mar 2008
Project Ref : 1033_001_03cocRskI20701A4

Cockburn Sound Coastal Alliance Positional accuracy should be considered as approximate.
Not for navigation.



This map indicates coastal areas that may be susceptible to inundation currently, or in the future as a result of ongoing sea-level rise and climate change, and should be used as a guide only. This indicative mapping is based on data that was available at the time of the Stage 1 Assessment only. The digital elevation model utilised for the inundation modelling is based on LiDAR data captured on 25–29 February 2008 and supplied as-constructed levels for Port Coogee.

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382000

384000

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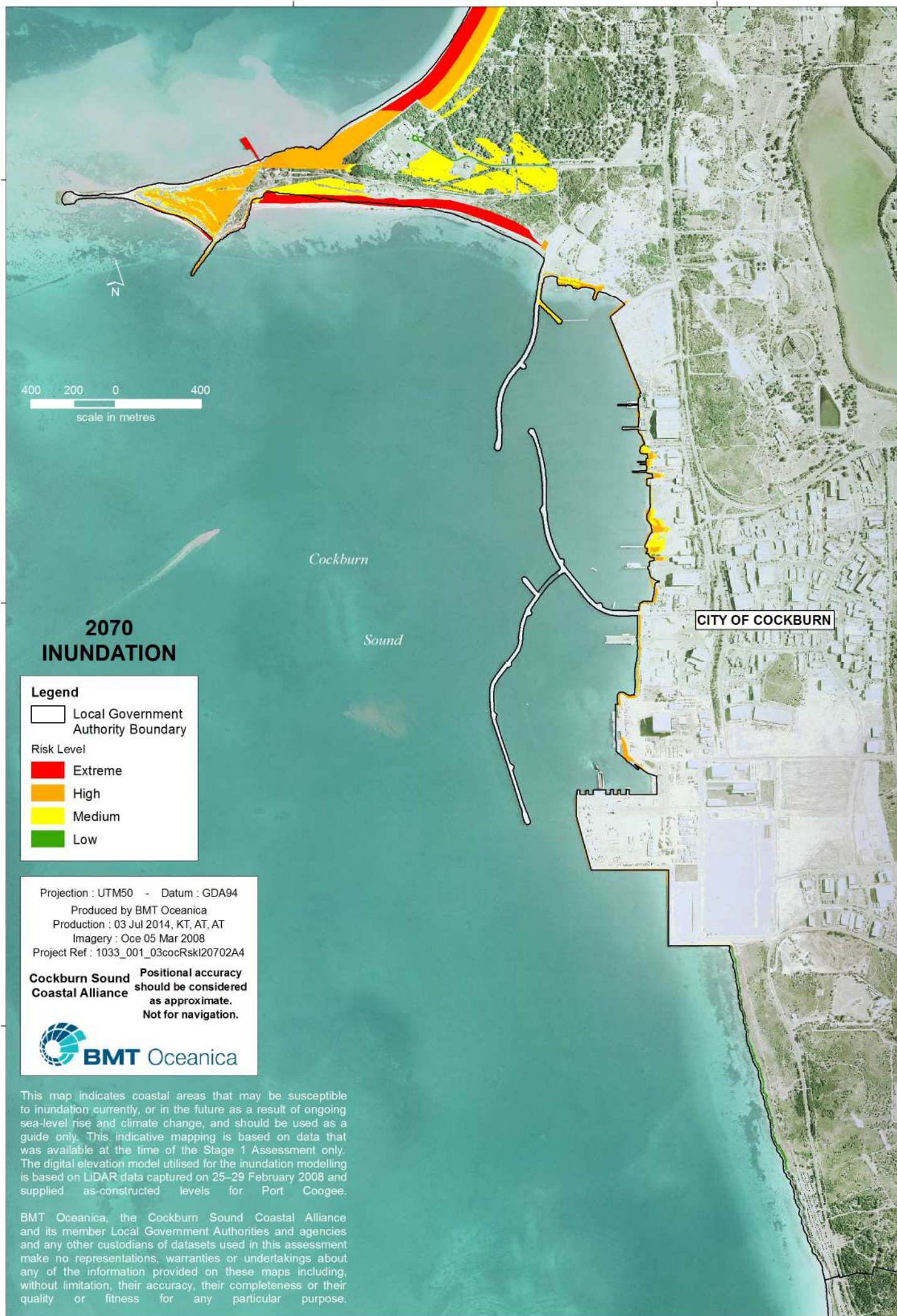
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642000

642000

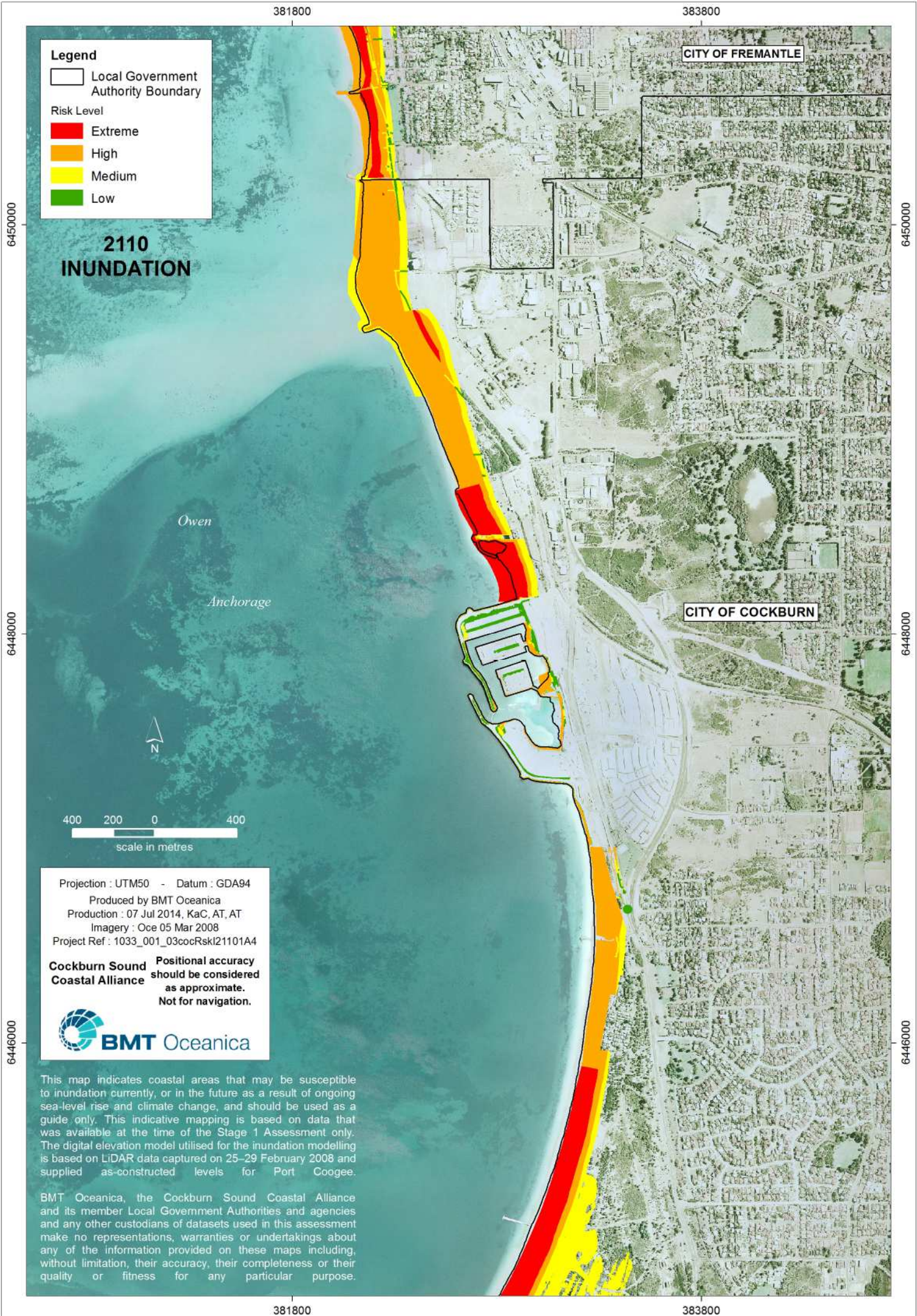
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382000

384000



382000

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644000

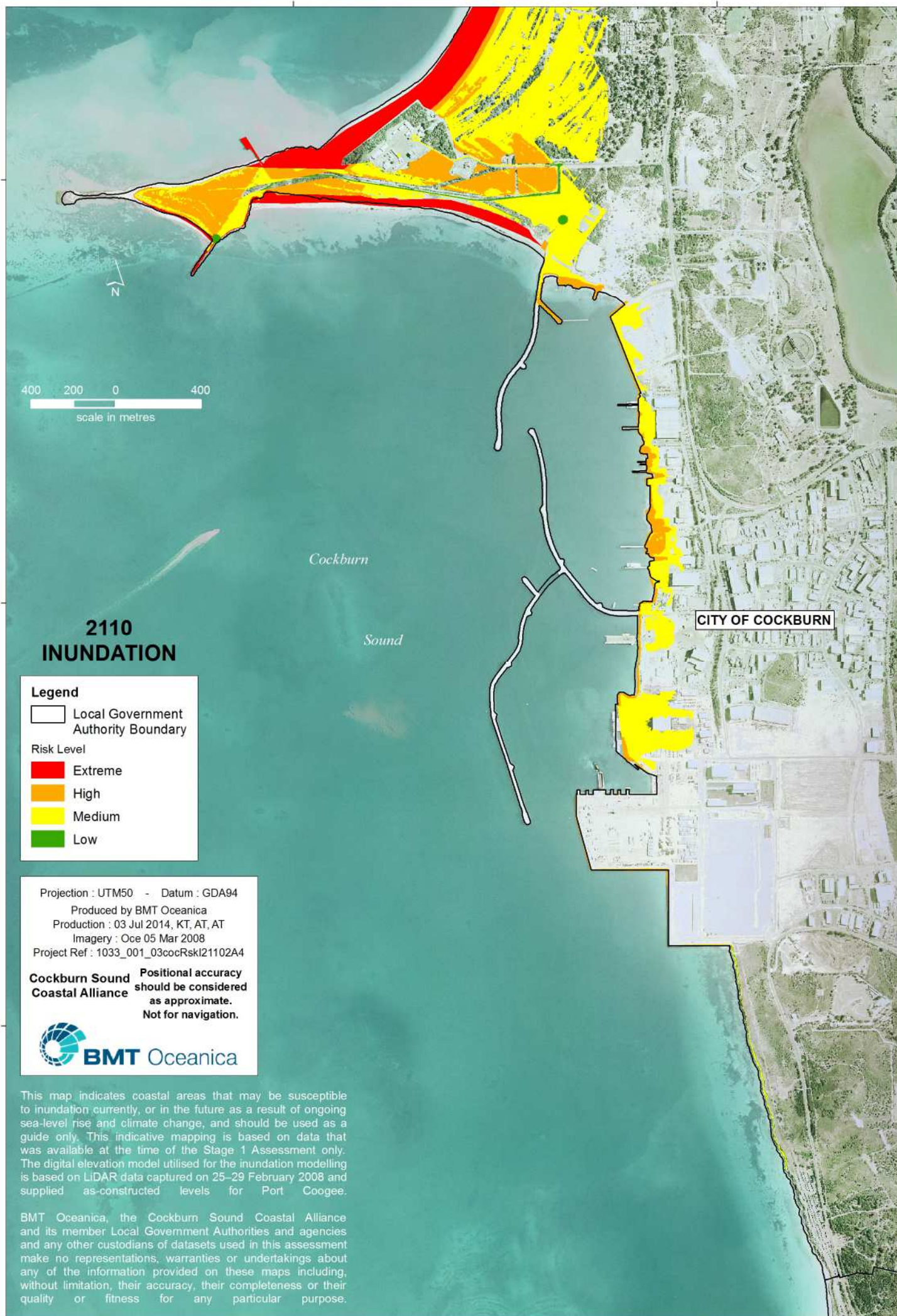
644000

642000

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381000

384000

Legend

 Local Government Authority Boundary

Risk Level

-  Extreme
-  High
-  Medium
-  Low

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PRESENT DAY EROSION

Cockburn

Sound

CITY OF KWINANA



500 250 0 500
scale in metres

Projection : UTM50 - Datum : GDA94
Produced by BMT Oceanica
Production : 02 Apr 2014, KT, DT, DT
Imagery : Oce 05 Mar 2008
Project Ref : 1033_001_03cokRskEPresA4

Cockburn Sound Coastal Alliance Positional accuracy should be considered as approximate.
Not for navigation.



381000

384000

6438000

6435000

6432000

6438000

6435000

6432000

381000

384000

Legend

 Local Government Authority Boundary

Risk Level

-  Extreme
-  High
-  Medium
-  Low

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2070 EROSION

Cockburn

Sound

CITY OF KWINANA



500 250 0 500
scale in metres

Projection : UTM50 - Datum : GDA94
Produced by BMT Oceanica
Production : 02 Apr 2014, KT, DT, DT
Imagery : Oce 05 Mar 2008
Project Ref : 1033_001_03cokRskE2070A4

Cockburn Sound Coastal Alliance Positional accuracy should be considered as approximate.
Not for navigation.



381000

384000

6438000

6435000

6432000

6438000

6435000

6432000





381000

384000

Legend

 Local Government Authority Boundary

Risk Level

-  Extreme
-  High
-  Medium
-  Low

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2110 EROSION

*Cockburn**Sound***CITY OF KWINANA**

500 250 0 500
scale in metres

Projection : UTM50 - Datum : GDA94
Produced by BMT Oceanica
Production : 26 Mar 2014, KT, AT, DT
Imagery : Oce 05 Mar 2008
Project Ref : 1033_001_03cokRskE2110A4

Cockburn Sound Coastal Alliance Positional accuracy should be considered as approximate.
Not for navigation.



381000

384000

6438000

6435000

6432000

6438000

6435000

6432000

381000

384000

Legend

 Local Government Authority Boundary

Risk Level

-  Extreme
-  High
-  Medium
-  Low

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PRESENT DAY INUNDATION

Cockburn

Sound

CITY OF KWINANA



500 250 0 500
scale in metres

Projection : UTM50 - Datum : GDA94
Produced by BMT Oceanica
Production : 02 Apr 2014, KT, DT, DT
Imagery : Oce 05 Mar 2008
Project Ref : 1033_001_03cokRskIPresA4

Cockburn Sound Coastal Alliance Positional accuracy should be considered as approximate. Not for navigation.



381000

384000

6438000

6435000

6432000

6438000

6435000

6432000

381000

384000

Legend

 Local Government Authority Boundary

Risk Level

-  Extreme
-  High
-  Medium
-  Low

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2070 INUNDATION

Cockburn

Sound

CITY OF KWINANA



500 250 0 500
scale in metres

Projection : UTM50 - Datum : GDA94
Produced by BMT Oceanica
Production : 02 Apr 2014, KT, DT, DT
Imagery : Oce 05 Mar 2008
Project Ref : 1033_001_03cokRskl2070A4

Cockburn Sound Coastal Alliance Positional accuracy should be considered as approximate.
Not for navigation.



381000

384000

6438000

6435000

6432000

6438000

6435000

6432000

381000

384000

Legend

 Local Government Authority Boundary

Risk Level

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-  High
-  Medium
-  Low

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2110 INUNDATION

Cockburn

Sound

CITY OF KWINANA



500 250 0 500
scale in metres

Projection : UTM50 - Datum : GDA94
Produced by BMT Oceanica
Production : 26 Mar 2014, KT, AT, DT
Imagery : Oce 05 Mar 2008
Project Ref : 1033_001_03cokRskI2110A4

Cockburn Sound Coastal Alliance Positional accuracy should be considered as approximate.
Not for navigation.



381000

384000

6438000

6435000

6432000

6438000

6435000

6432000

382500

380000

377500

6430000

6427500

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6427500

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Legend

Local Government Authority Boundary

Risk Level

Extreme

High

Medium

Low

PRESENT DAY EROSION

CITY OF ROCKINGHAM



Projection : UTM50 - Datum : GDA94
Produced by BMT Oceanica
Production : 03 Jul 2014, KT, AT, AT
Imagery : Oce 05 Mar 2008
Project Ref : 1033_001_03corRskEPresA4
Cockburn Sound Coastal Alliance
Positional accuracy should be considered as approximate.
Not for navigation.



382500

380000

377500

6430000

6427500

6430000

6427500

382500

380000

377500

6430000

6427500

6430000

6427500

This map indicates coastal areas that may be susceptible to erosion currently, or in the future as a result of ongoing sea-level rise and climate change, and should be used as a guide only. This indicative mapping is based on data that was available at the time of the Stage 1 Assessment only. BMT Oceanica, the Cockburn Sound Coastal Alliance and its member Local Government Authorities and agencies and any other custodians of datasets used in this assessment make no representations, warranties or undertakings about any of the information provided on these maps, including, without limitation, their accuracy, their completeness or their quality or fitness for any particular purpose.

Legend

Local Government Authority Boundary

Risk Level

Extreme

High

Medium

Low

2070
EROSION

CITY OF ROCKINGHAM



Projection : UTM50 - Datum : GDA94
Produced by BMT Oceanica
Production : 03 Jul 2014, KT, AT, AT
Imagery : Oce 05 Mar 2008
Project Ref : 1033_001_03corRskE2070A4
Cockburn Sound Coastal Alliance
Positional accuracy should be considered as approximate.
Not for navigation.



382500

380000

377500

6430000

6427500

6430000

6427500

382500

380000

377500

6430000

6427500

6430000

6427500

This map indicates coastal areas that may be susceptible to erosion currently, or in the future as a result of ongoing sea-level rise and climate change, and should be used as a guide only. This indicative mapping is based on data that was available at the time of the Stage 1 Assessment only. BMT Oceanica, the Cockburn Sound Coastal Alliance and its member Local Government Authorities and agencies and any other custodians of datasets used in this assessment make no representations, warranties or undertakings about any of the information provided on these maps, including, without limitation, their accuracy, their completeness or their quality or fitness for any particular purpose.

Legend

Local Government Authority Boundary

Risk Level

Extreme

High

Medium

Low

2110 EROSION

CITY OF ROCKINGHAM



Projection : UTM50 - Datum : GDA94
Produced by BMT Oceanica
Production : 03 Jul 2014, KT, AT, DT
Imagery : Oce 05 Mar 2008
Project Ref : 1033_001_03corRsKE2110A4
Cockburn Sound Coastal Alliance
Positional accuracy should be considered as approximate.
Not for navigation.



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Legend

Local Government Authority Boundary

Risk Level

Extreme

High

Medium

Low

2070
INUNDATION

This map indicates coastal areas that may be susceptible to inundation currently, or in the future as a result of ongoing sea-level rise and climate change, and should be used as a guide only. This indicative mapping is based on data that was available at the time of the Stage 1 Assessment only. The digital elevation model utilised for the inundation modelling is based on LIDAR data captured on 25-29 February 2008 and supplied as-constructed levels for Port Coogee.

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CITY OF ROCKINGHAM



Projection : UTM50 - Datum : GDA94
Produced by BMT Oceanica
Production : 03 Jul 2014, KT, AT, AT
Imagery : Oce 05 Mar 2008
Project Ref : 1033_001_03corRski2070A4

Cockburn Sound Coastal Alliance
Positional accuracy should be considered as approximate.
Not for navigation.



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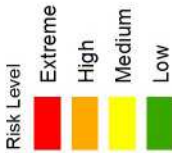
377500

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Legend
Local Government
Authority Boundary
Risk Level
Extreme
High
Medium
Low



2110 INUNDATION

This map indicates coastal areas that may be susceptible to inundation currently, or in the future as a result of ongoing sea-level rise and climate change, and should be used as a guide only. This indicative mapping is based on data that was available at the time of the Stage 1 Assessment only. The digital elevation model utilised for the inundation modelling is based on LIDAR data captured on 25-29 February 2008 and supplied as-constructed levels for Port Coogee.

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CITY OF ROCKINGHAM



Projection : UTM50 - Datum : GDA94
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Cockburn Sound Coastal Alliance
Positional accuracy
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Not for navigation.



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