



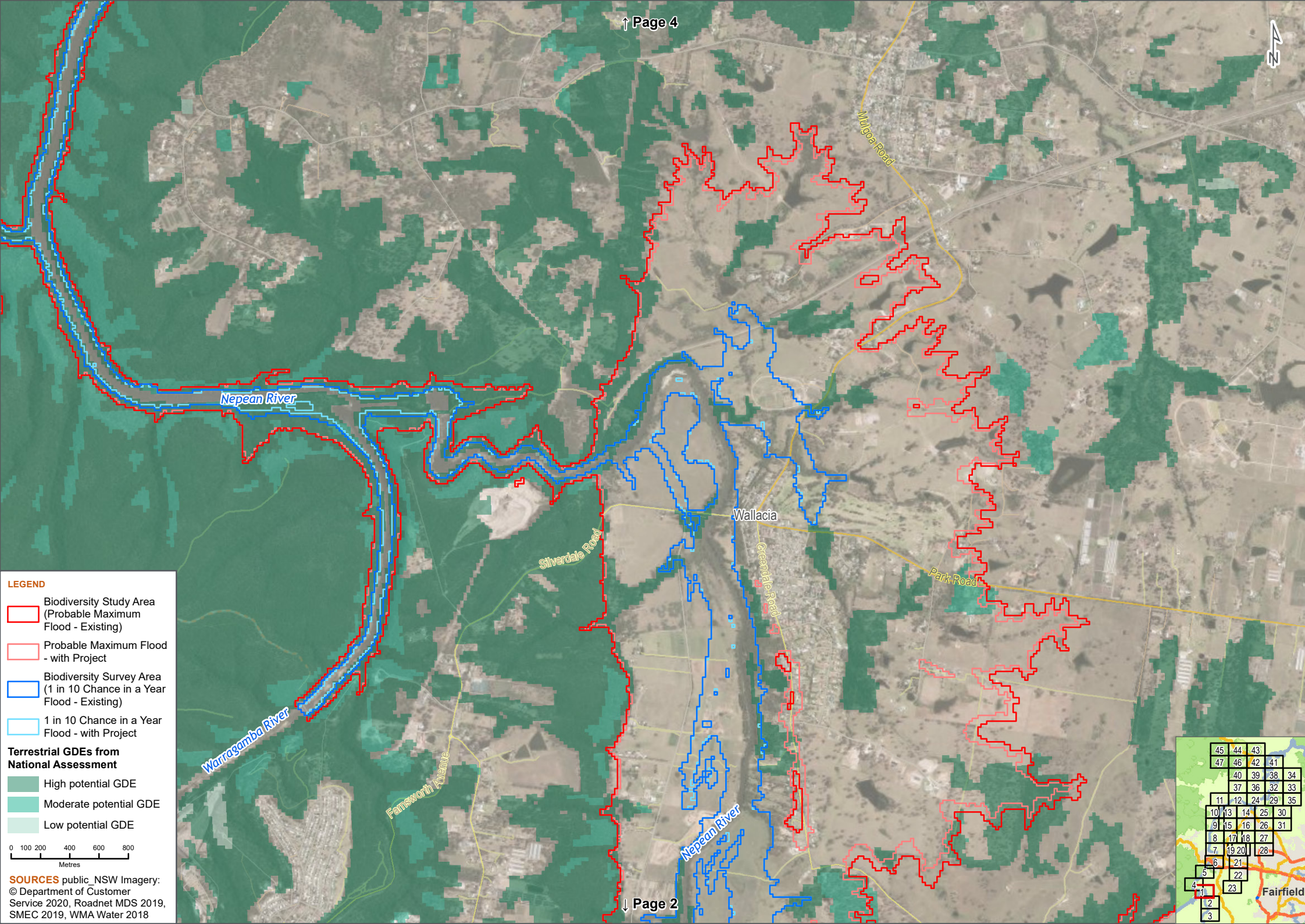
Artist's Impression

Environmental Impact Statement-Appendix F2: Downstream Ecological Assessment

Warragamba Dam Raising

Reference No. 30012078
Prepared for WaterNSW
10 September 2021

Appendix I – Part 5: Groundwater-dependent ecosystems



LEGEND

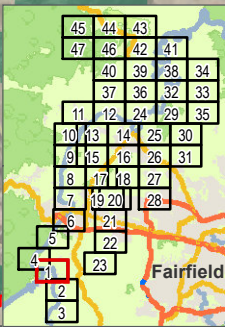
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- Probable Maximum Flood - with Project
- Biodiversity Survey Area (1 in 10 Chance in a Year Flood - Existing)
- 1 in 10 Chance in a Year Flood - with Project

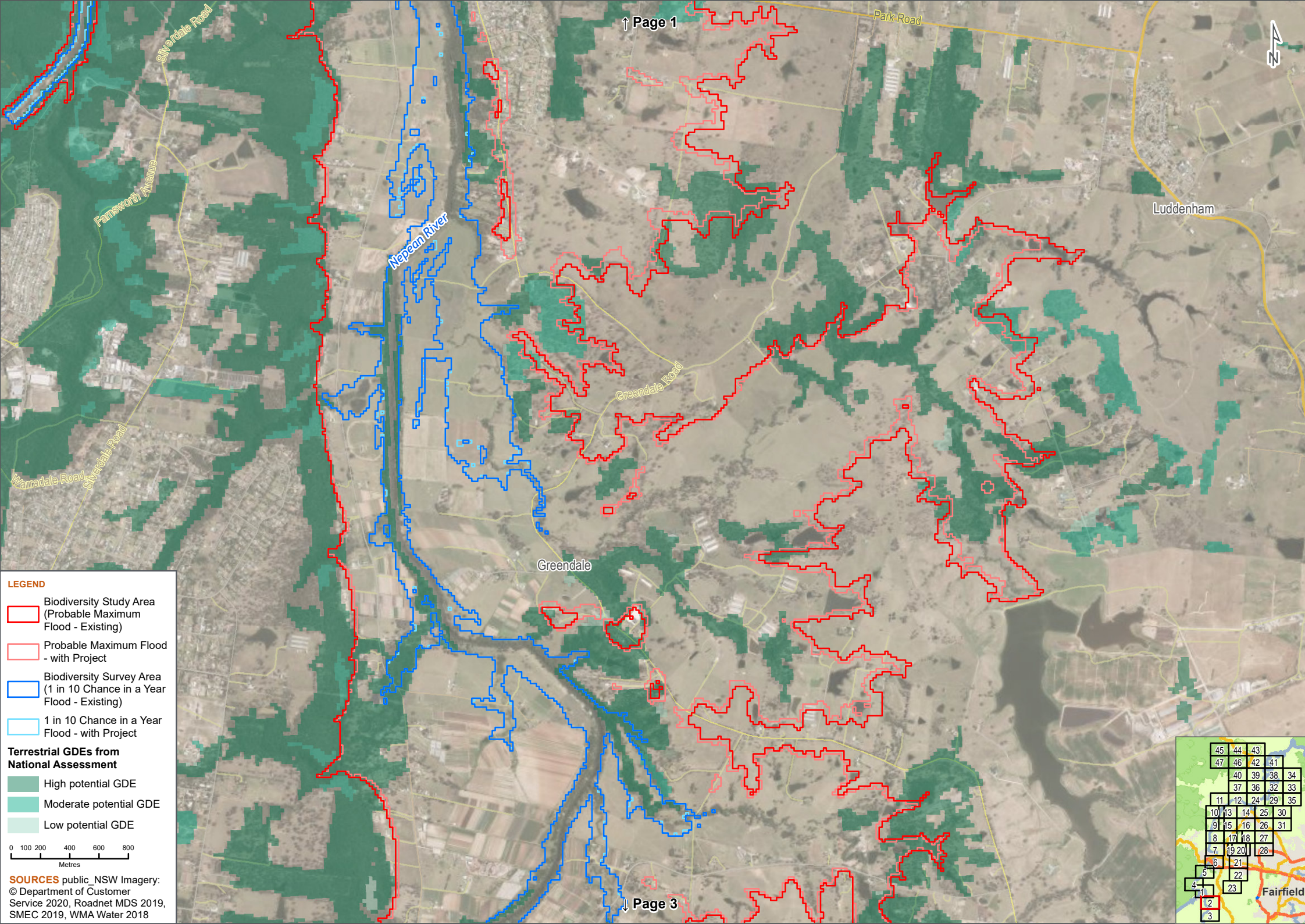
Terrestrial GDEs from National Assessment

- High potential GDE
- Moderate potential GDE
- Low potential GDE

0 100 200 400 600 800
Metres

SOURCES public_NSW Imagery:
© Department of Customer Service 2020, Roadnet MDS 2019, SMEC 2019, WMA Water 2018





LEGEND

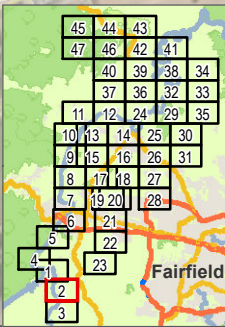
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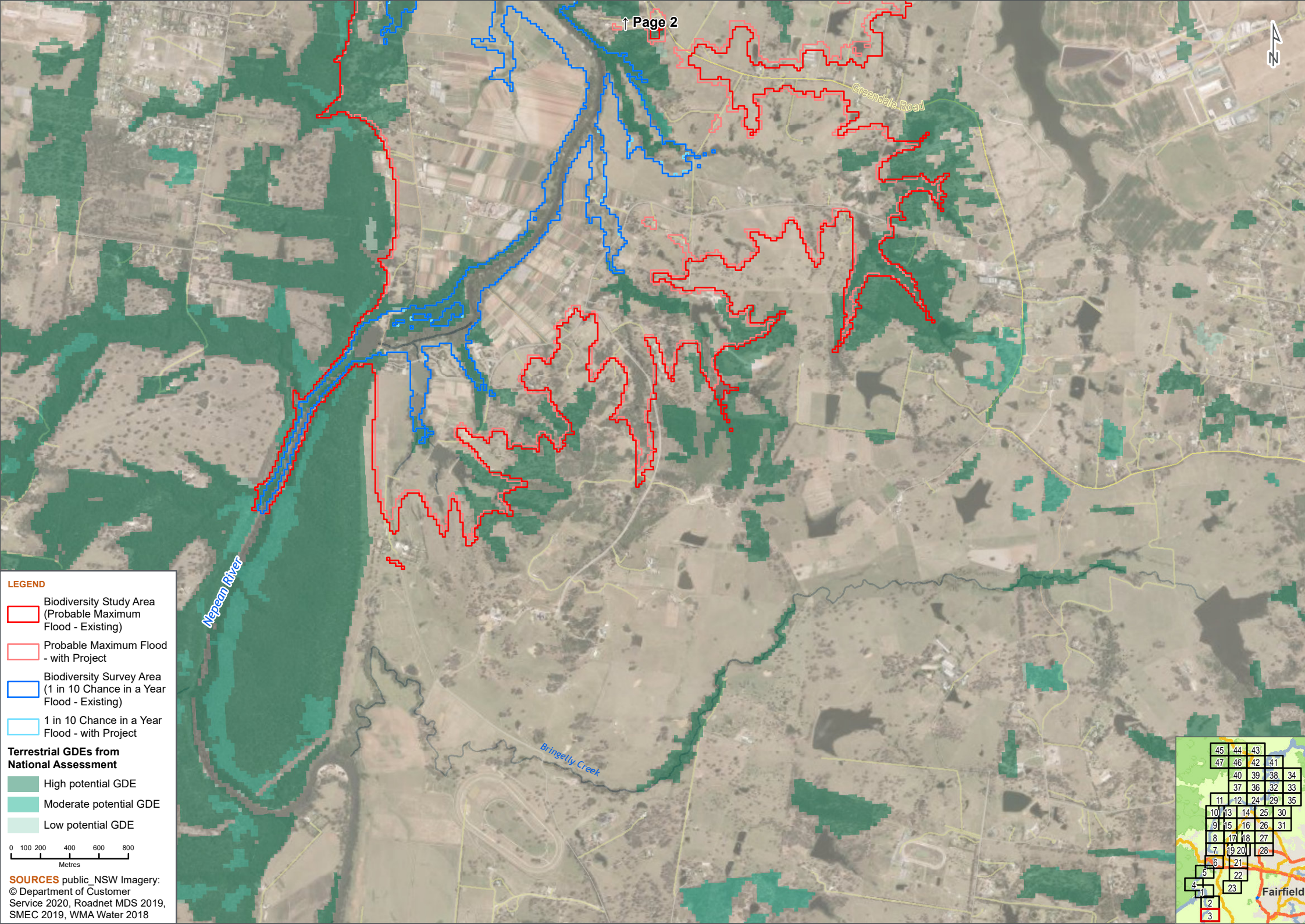
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Metres

SOURCES public_NSW Imagery:
© Department of Customer Service 2020, Roadnet MDS 2019, SMEC 2019, WMA Water 2018





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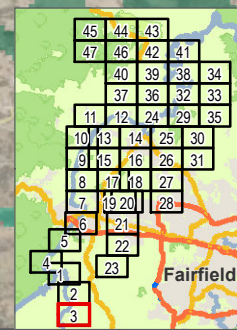
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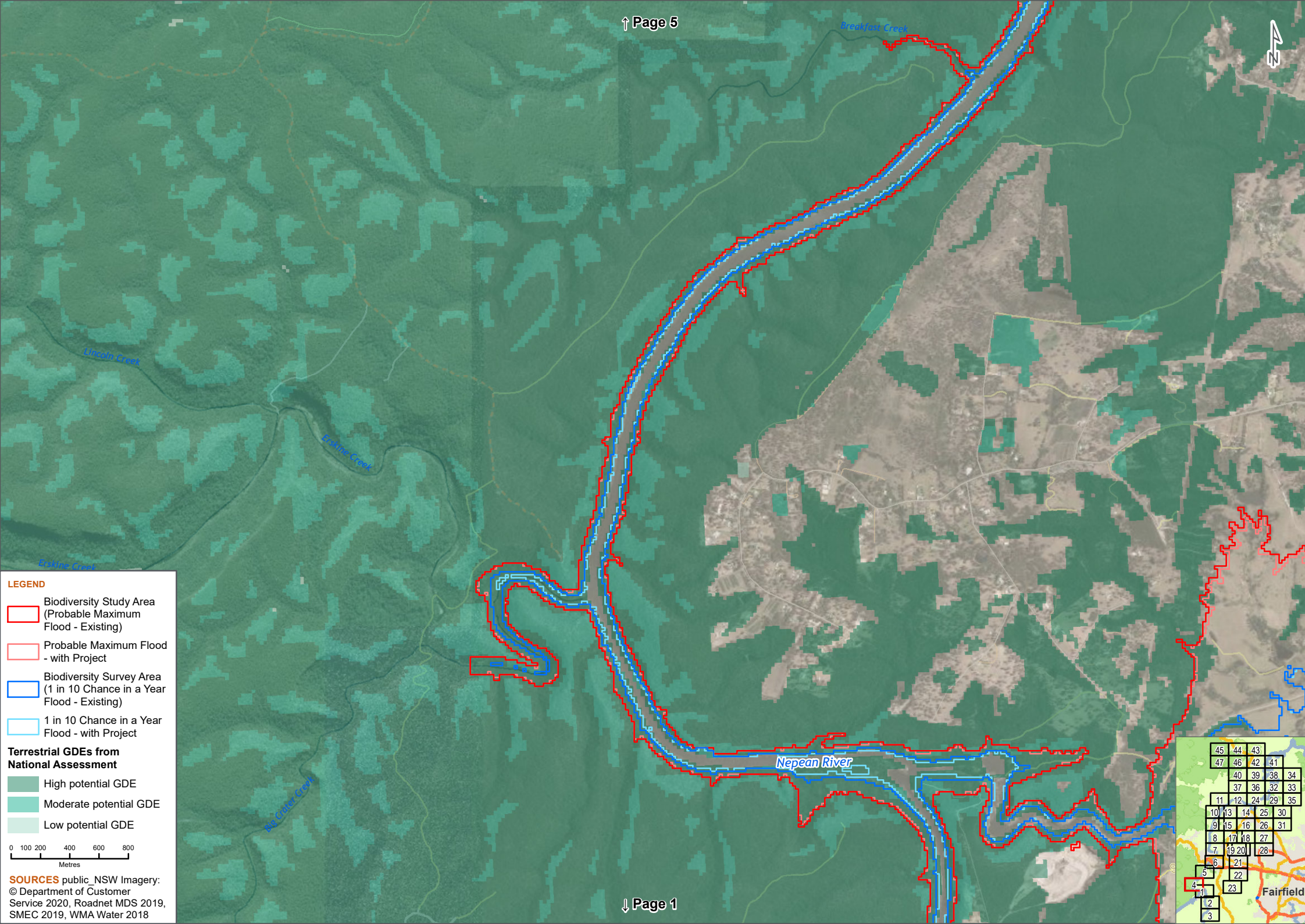
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Metres

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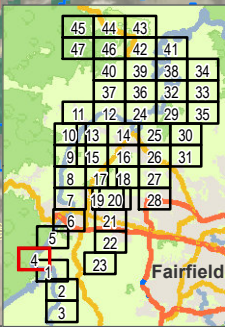
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Metres

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Lapstone

Regentville



Long Pine Creek

Napean River

Mulgoa Creek

The Lakes Drive

Morrison Street

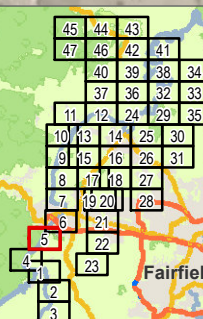
Glenmore Park

Glenmore Parkway

Mulgoa Creek

Mulgoa Road

Breakfast Creek



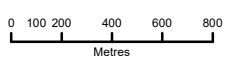
Fairfield

LEGEND

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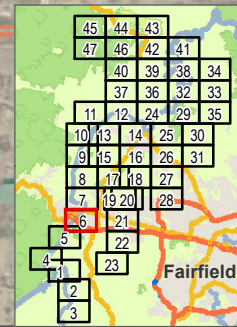
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SOURCES public_NSW Imagery:
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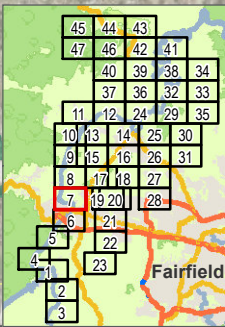
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Hawkesbury Heights

Castlereagh

Cranebrook

Fairfield

LEGEND

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(Probable Maximum
Flood - Existing)

Probable Maximum Flood
- with Project

Biodiversity Survey Area
(1 in 10 Chance in a Year
Flood - Existing)

1 in 10 Chance in a Year
Flood - with Project

**Terrestrial GDEs from
National Assessment**

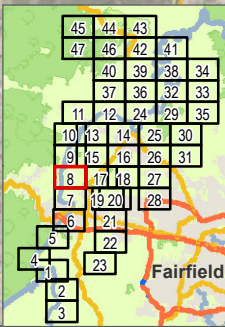
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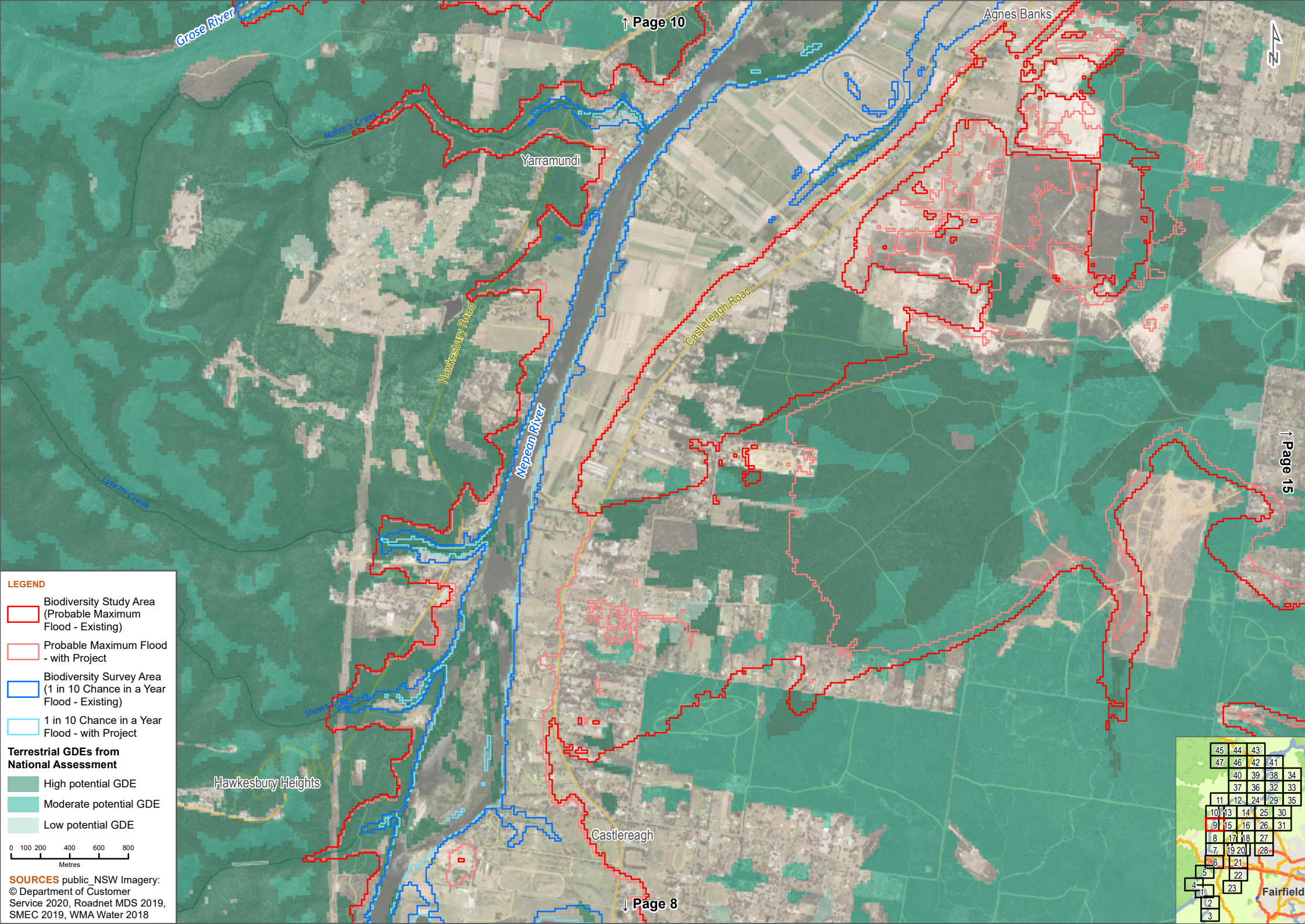
Moderate potential GDE

Low potential GDE

0 100 200 400 600 800
Metres

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SMEC 2019, WMA Water 2018





LEGEND

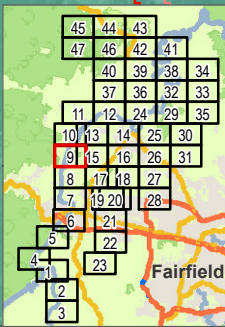
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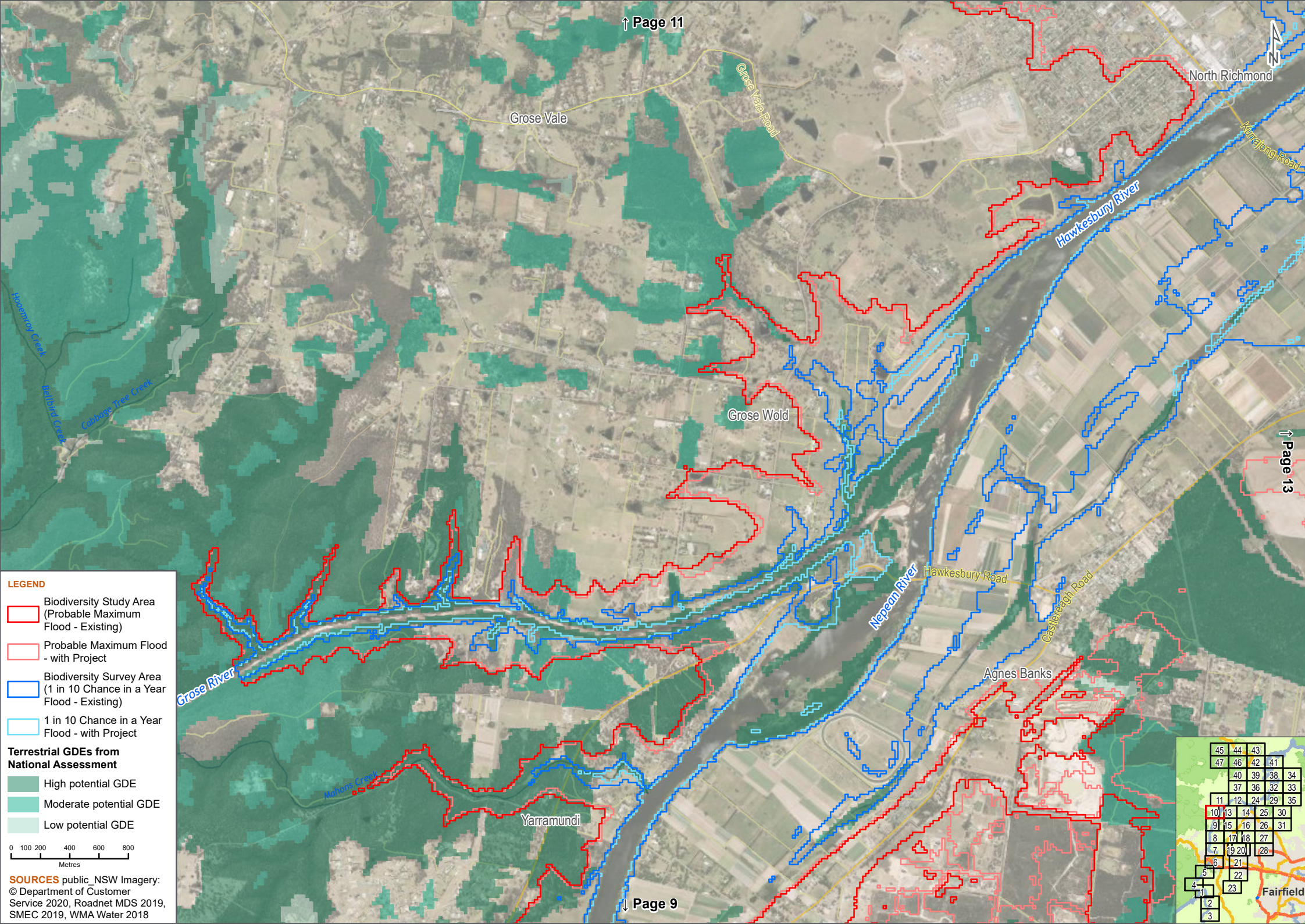
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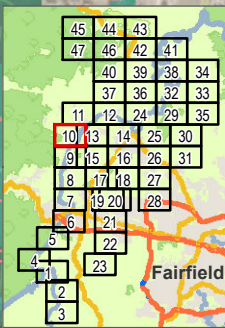
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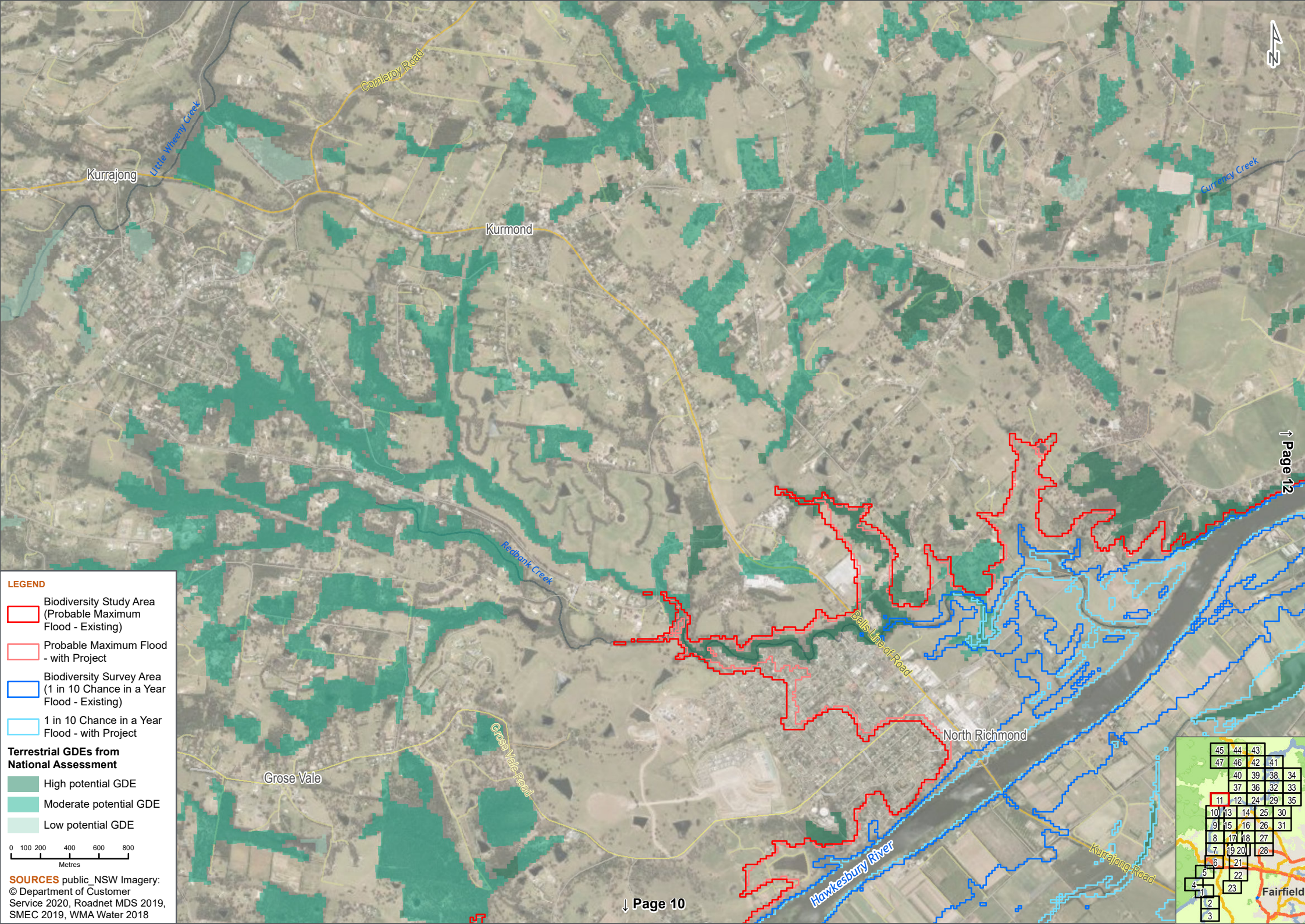
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Metres

SOURCES public_NSW Imagery:
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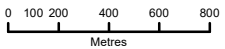


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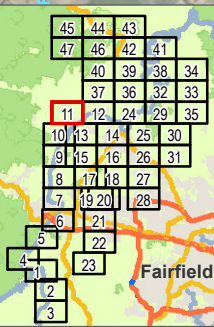
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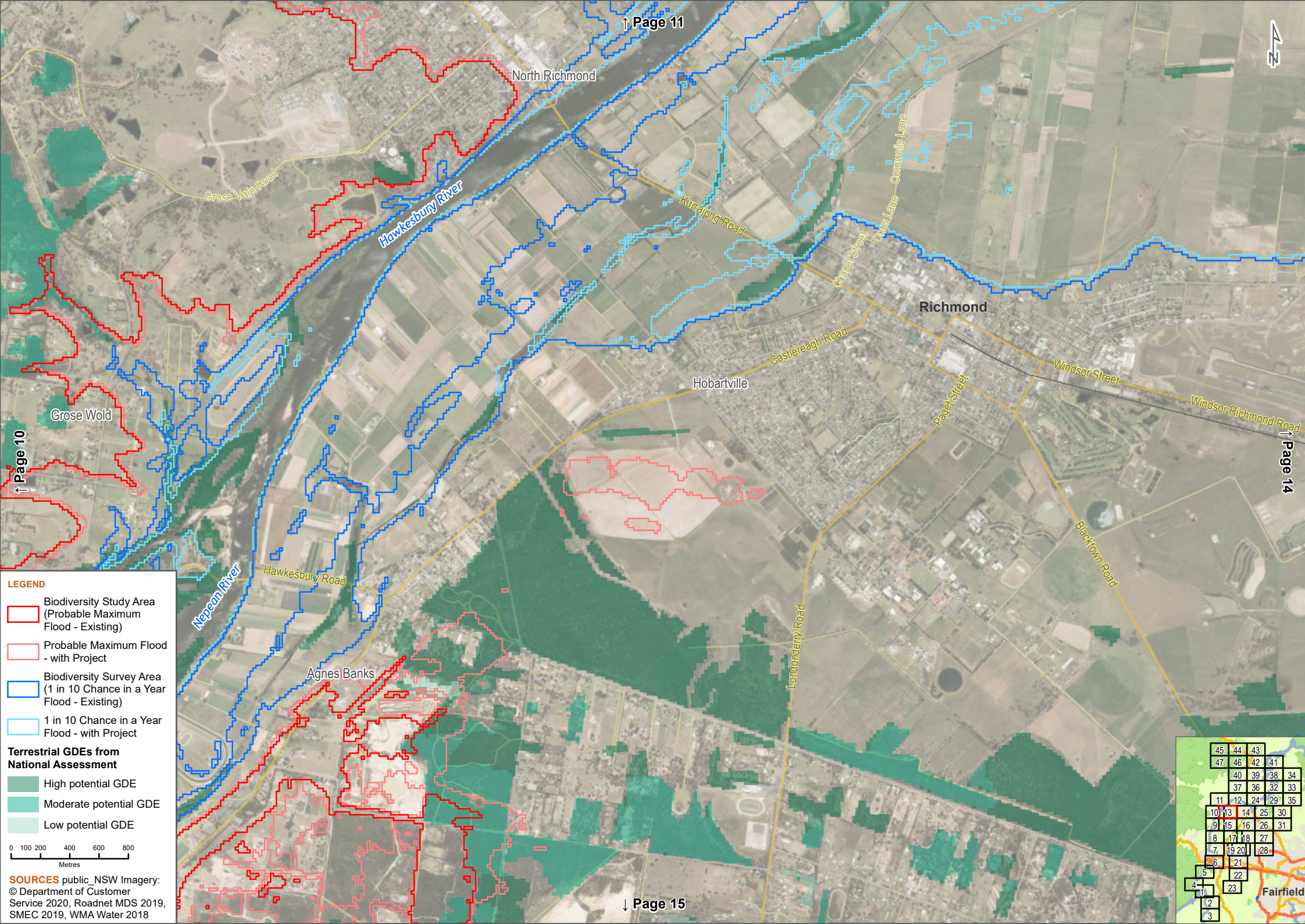
Freemans Reach

Currency Creek

Hawkesbury River

Richmond Lowlands

Fairfield



LEGEND

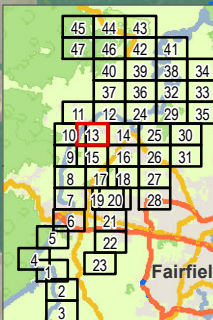
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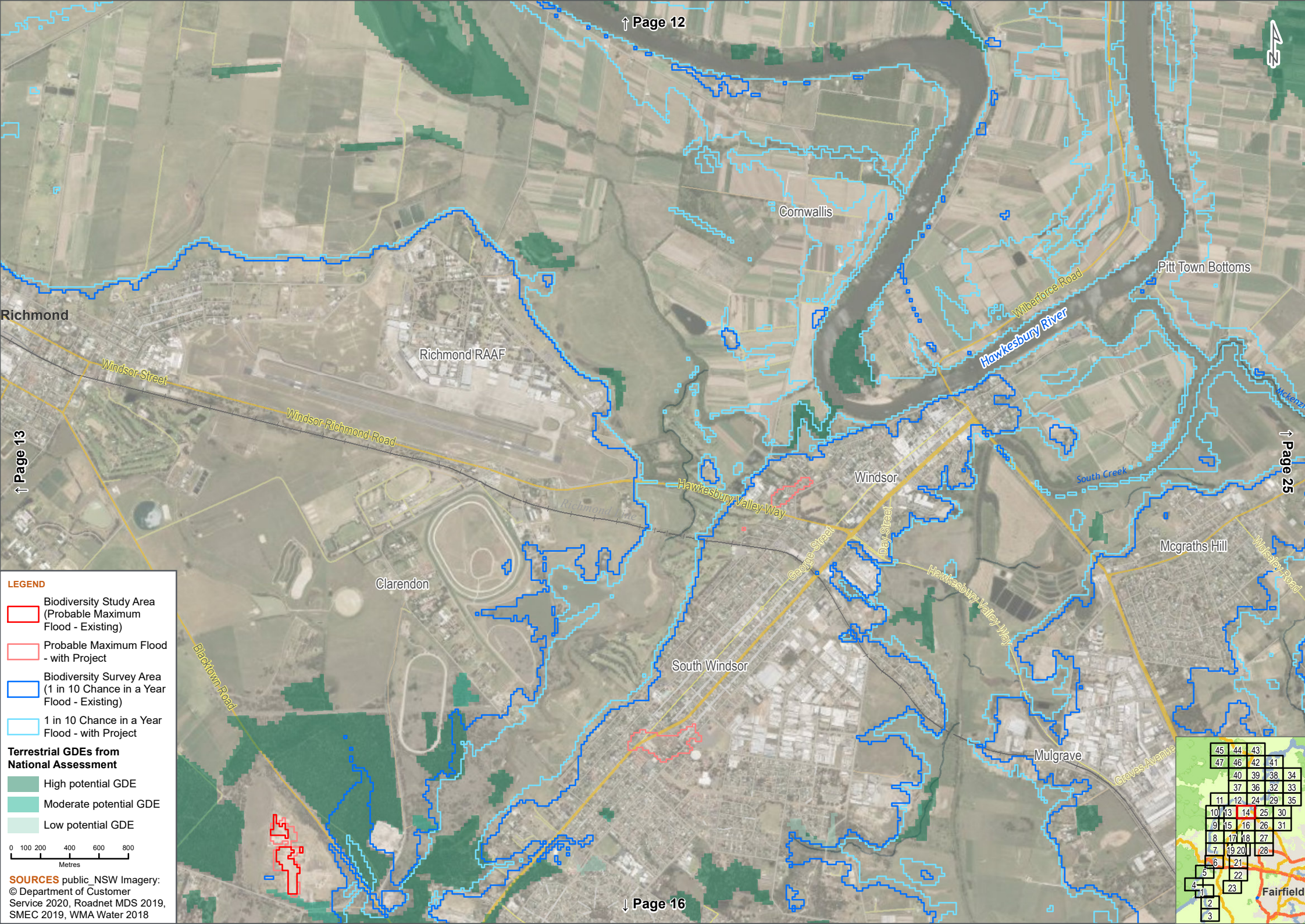
Terrestrial GDEs from National Assessment

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0 100 200 400 600 800
Metres

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Richmond

Cornwallis

Pitt Town Bottoms

Richmond RAAF

Windsor

Mcgraths Hill

Clarendon

South Windsor

Mulgrave

Fairfield

LEGEND

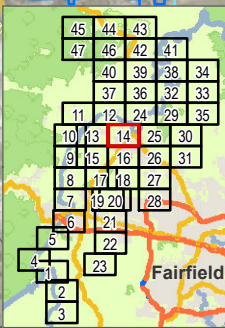
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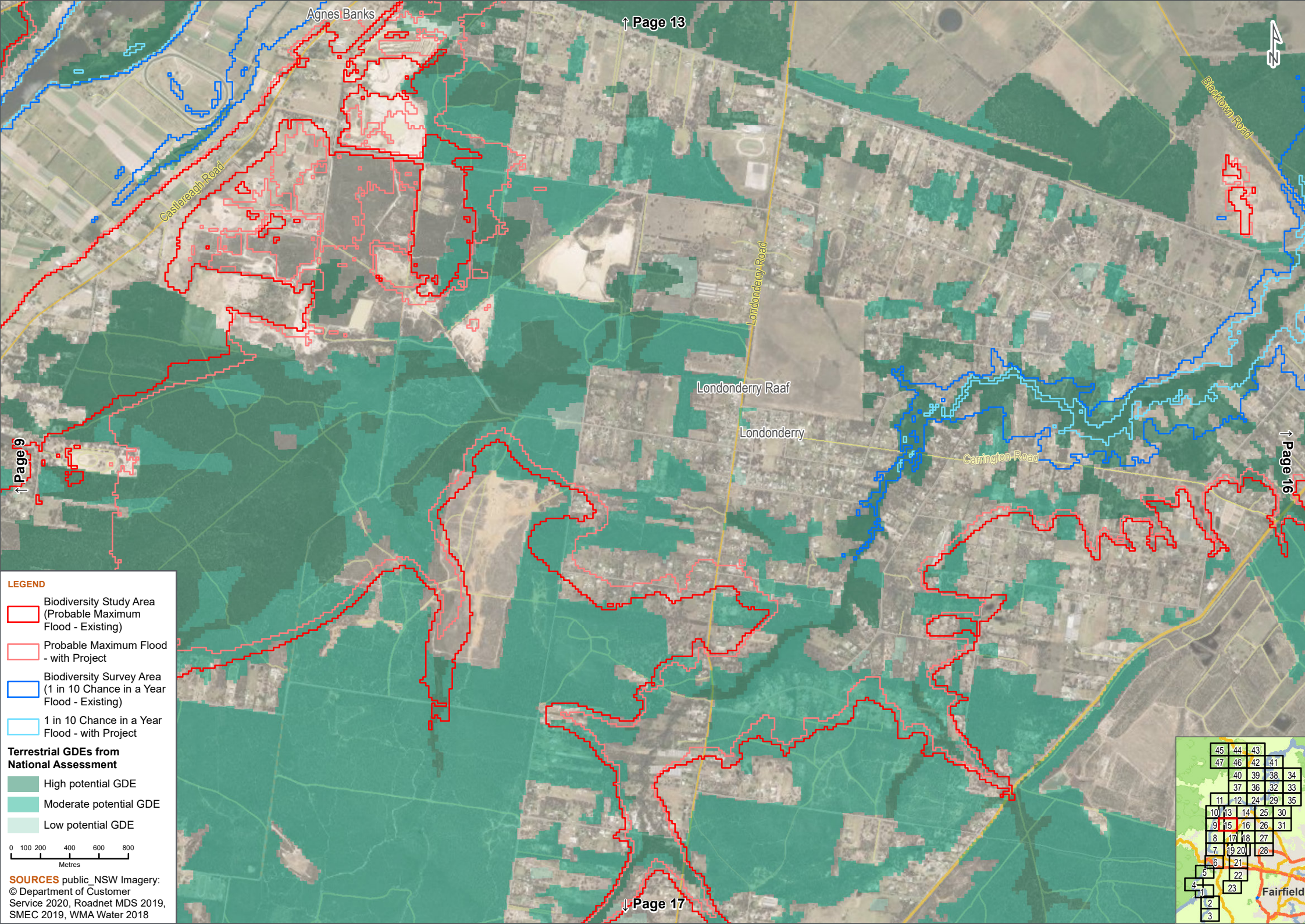
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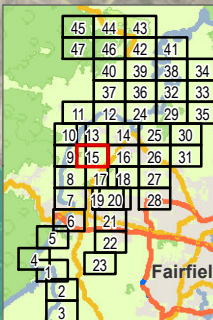


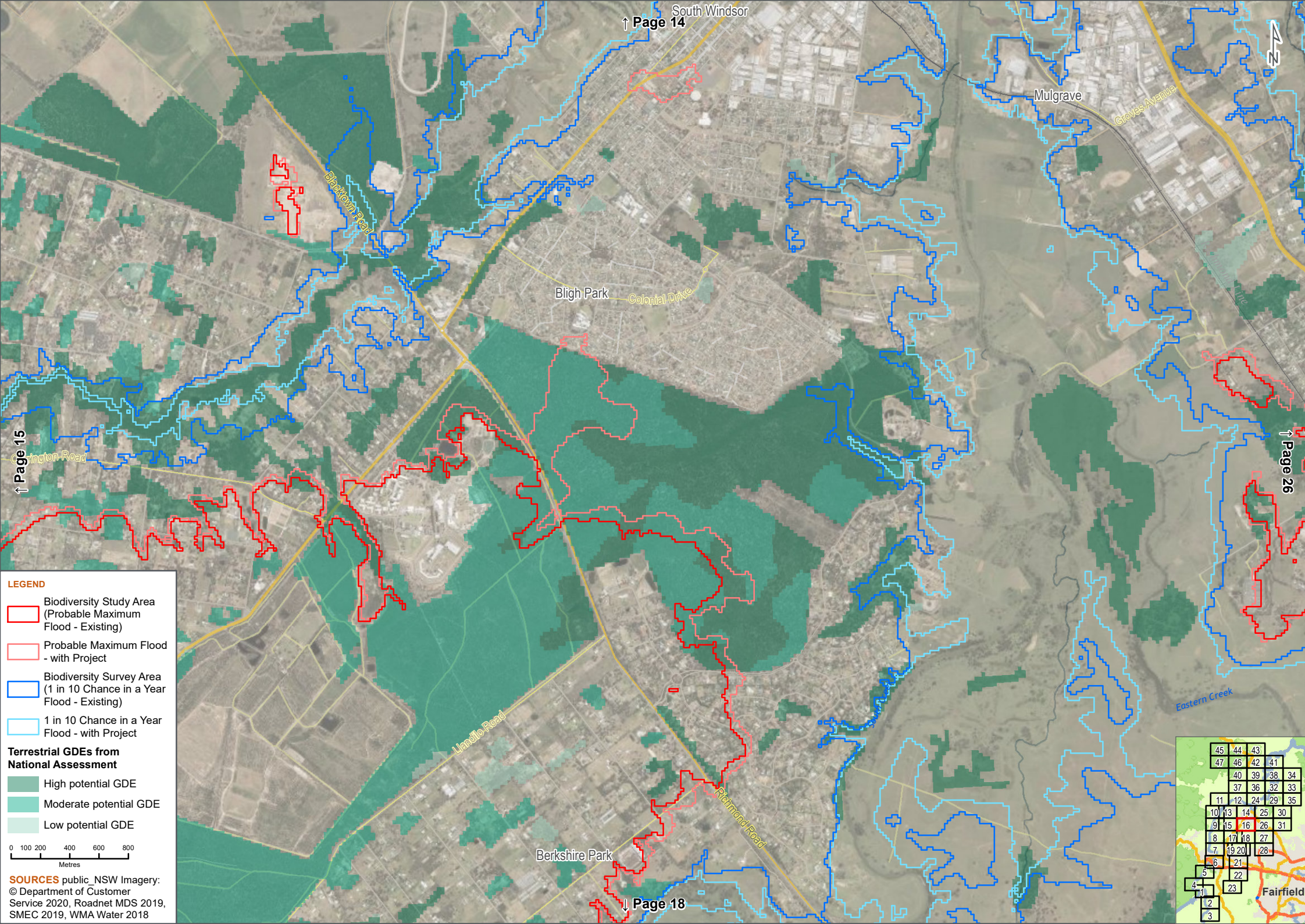
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0 100 200 400 600 800
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LEGEND

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Terrestrial GDEs from National Assessment

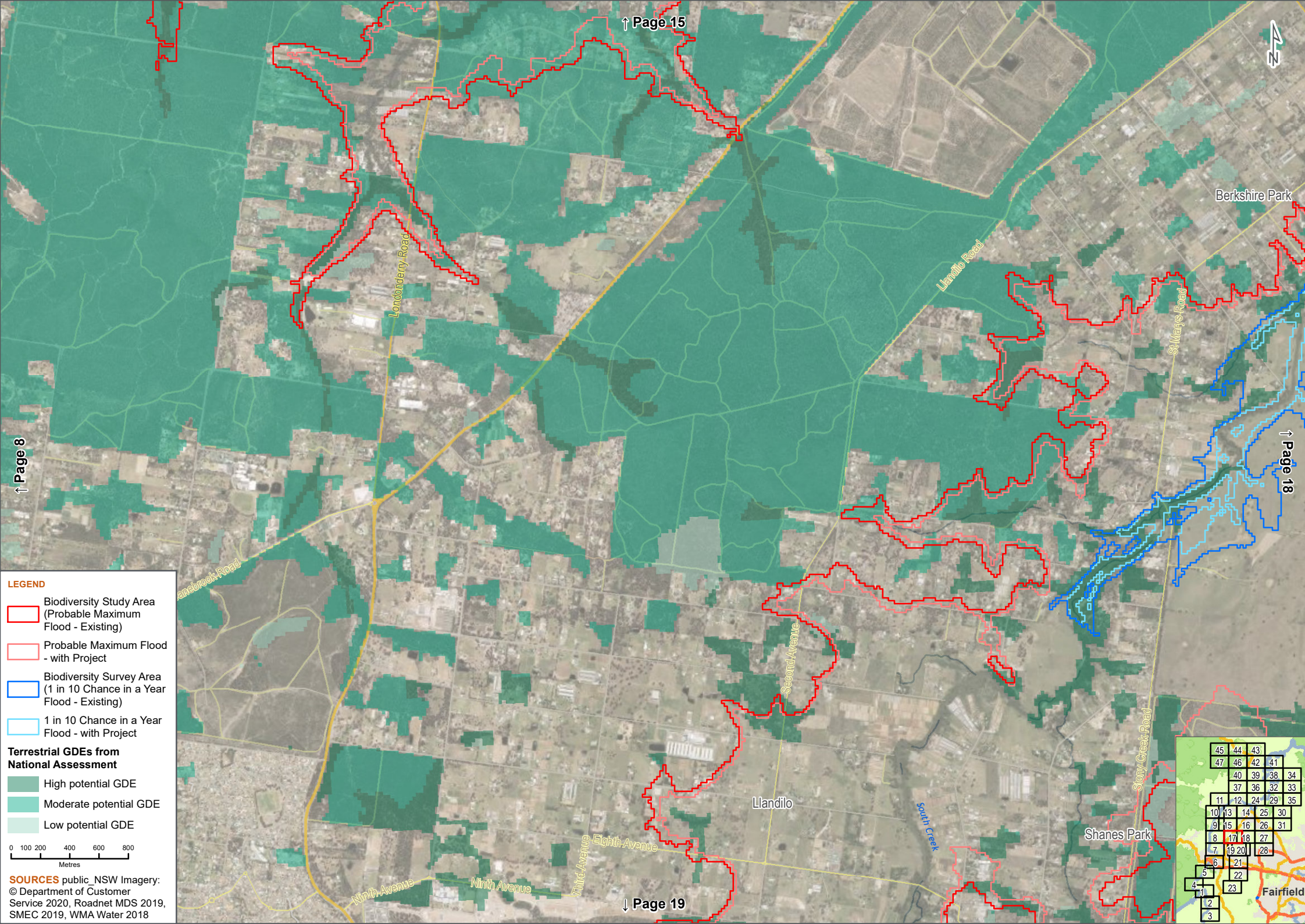
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0 100 200 400 600 800 Metres

SOURCES public_NSW Imagery: © Department of Customer Service 2020, Roadnet MDS 2019, SMEC 2019, WMA Water 2018

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3				

Fairfield



LEGEND

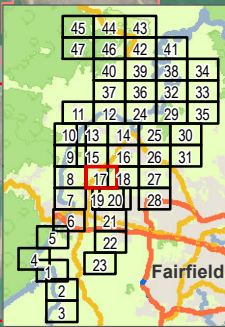
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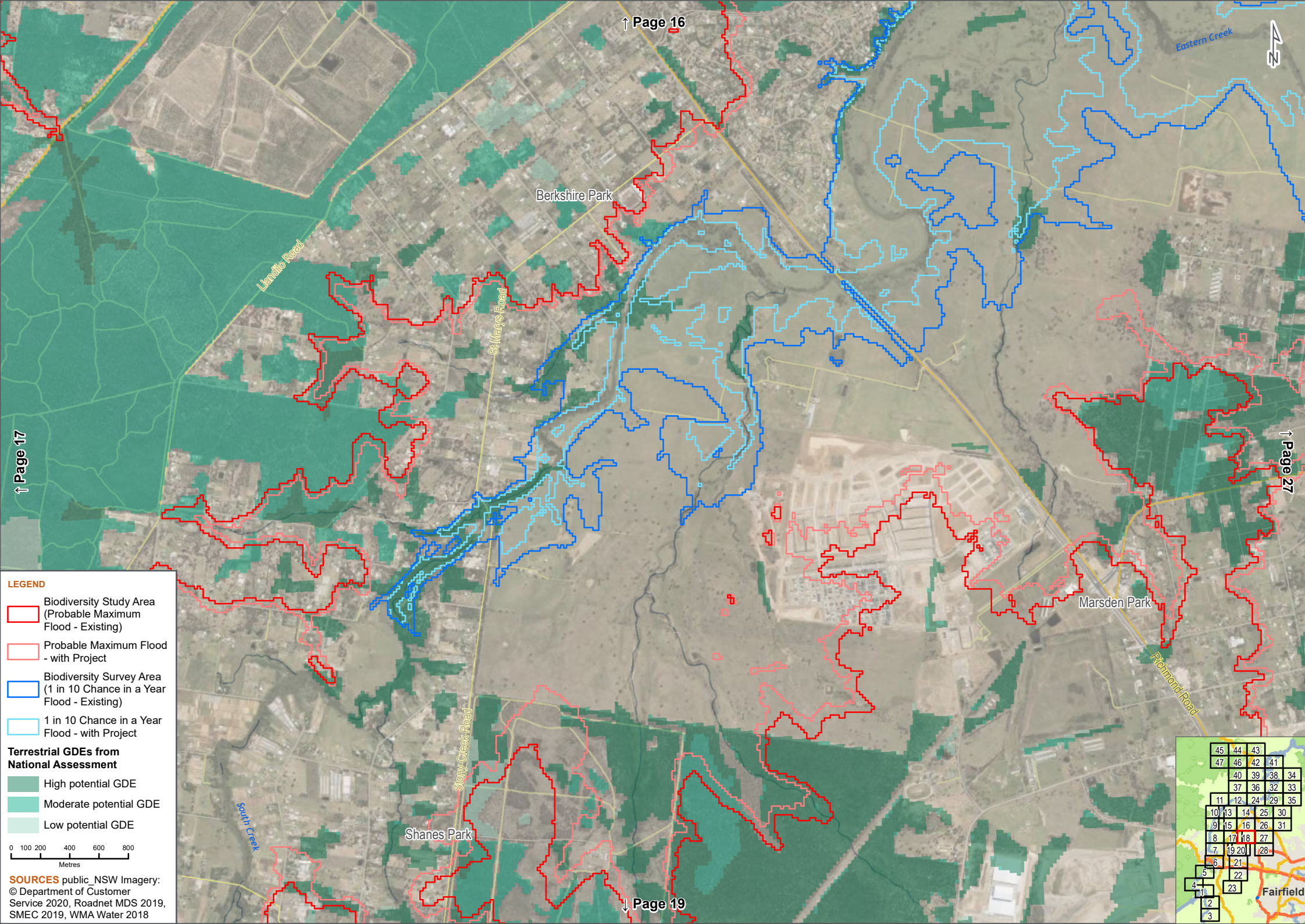
Terrestrial GDEs from National Assessment

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Metres

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LEGEND

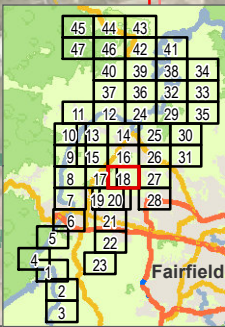
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Metres

SOURCES public_NSW Imagery:
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LEGEND

Biodiversity Study Area
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Probable Maximum Flood
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Terrestrial GDEs from National Assessment

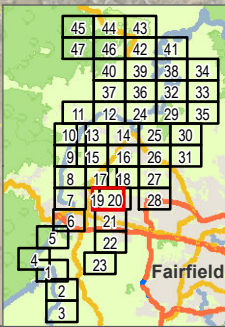
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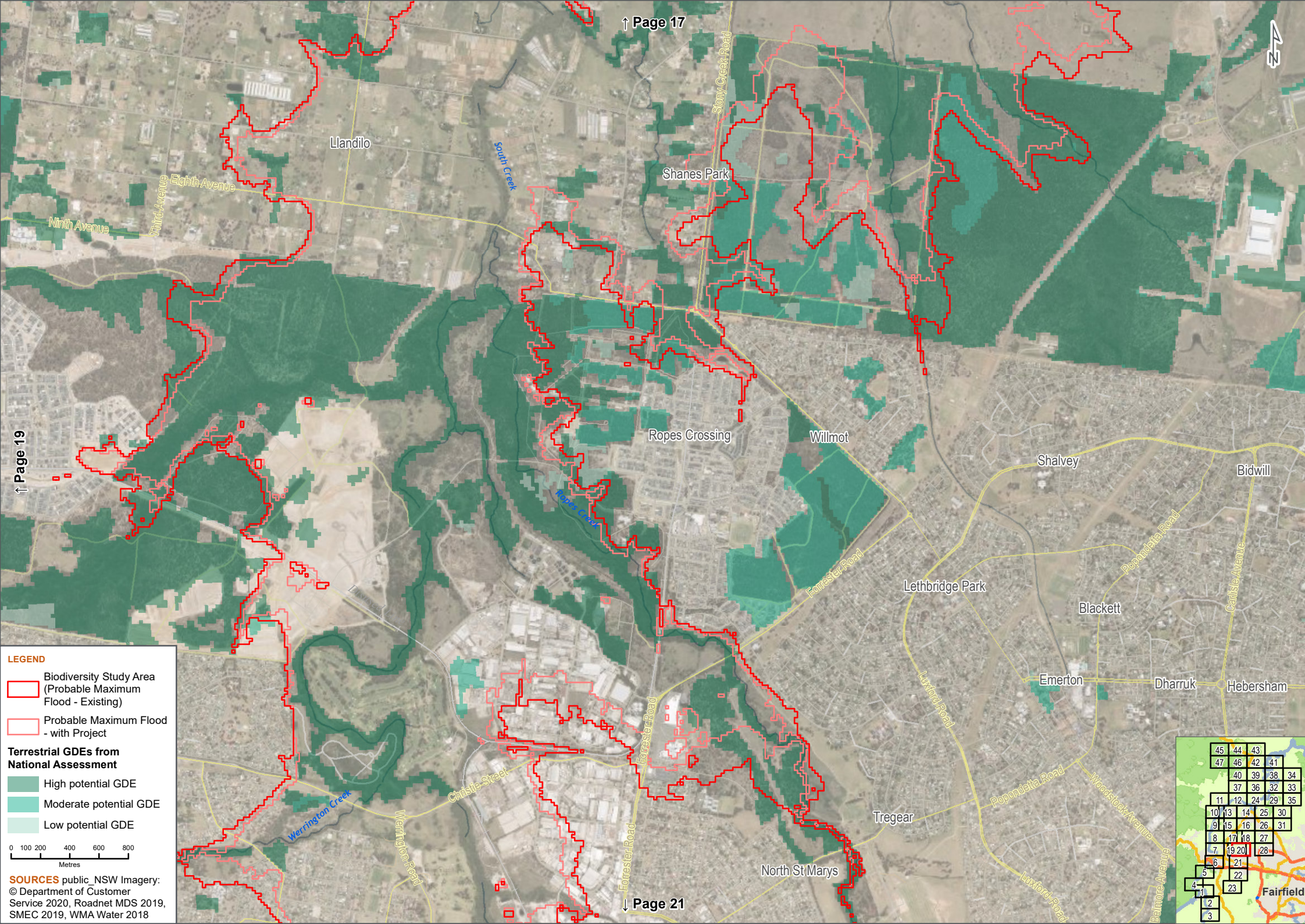
Moderate potential GDE

Low potential GDE

0 100 200 400 600 800
Metres

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LEGEND

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Probable Maximum Flood
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Terrestrial GDEs from National Assessment

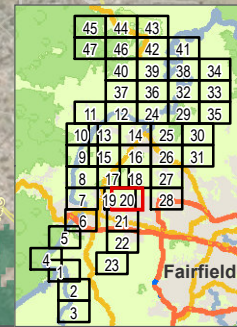
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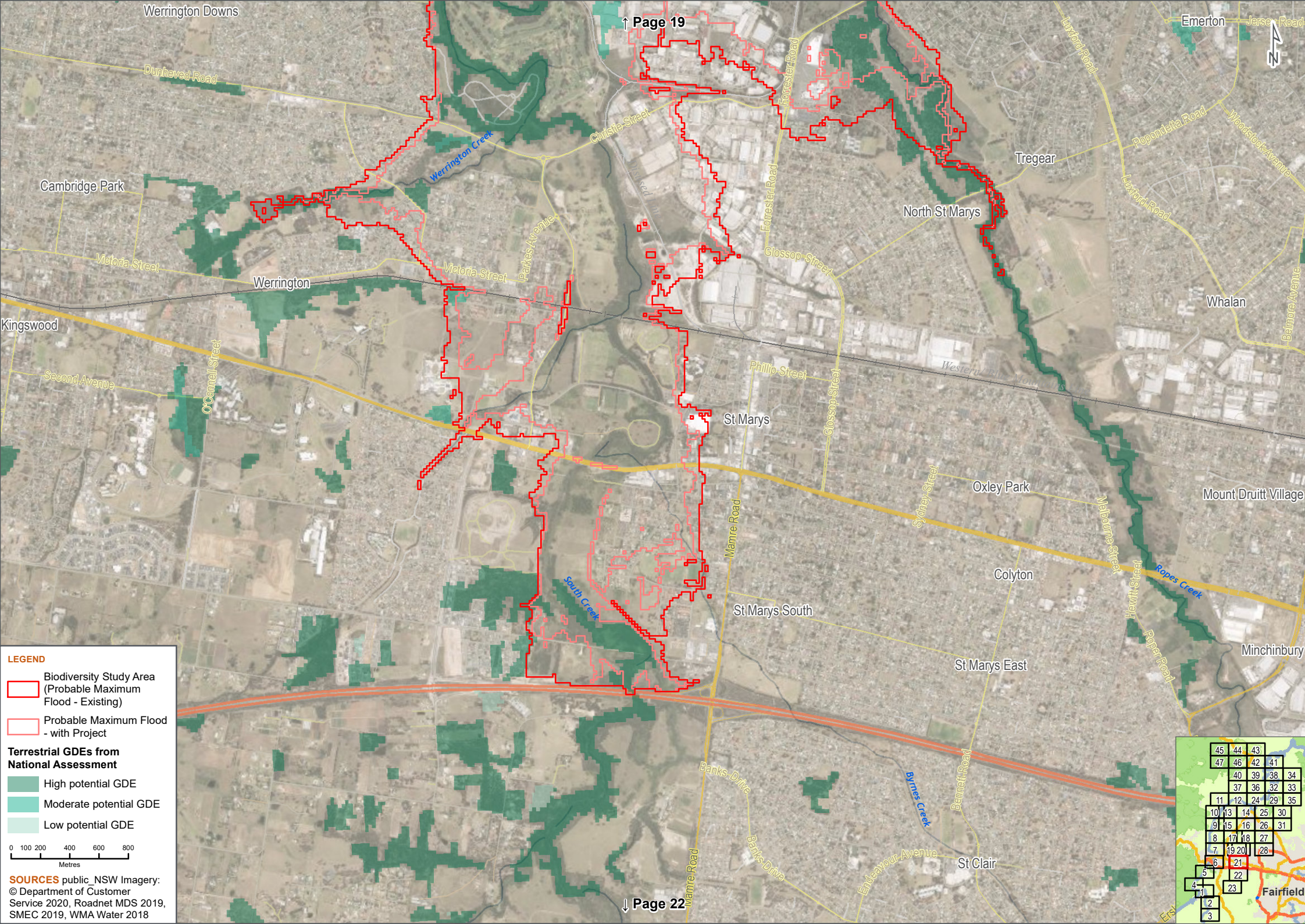
Moderate potential GDE

Low potential GDE

0 100 200 400 600 800
Metres

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LEGEND

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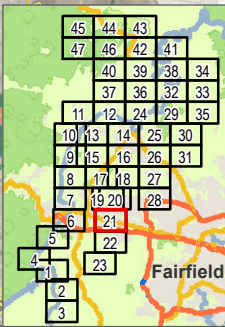
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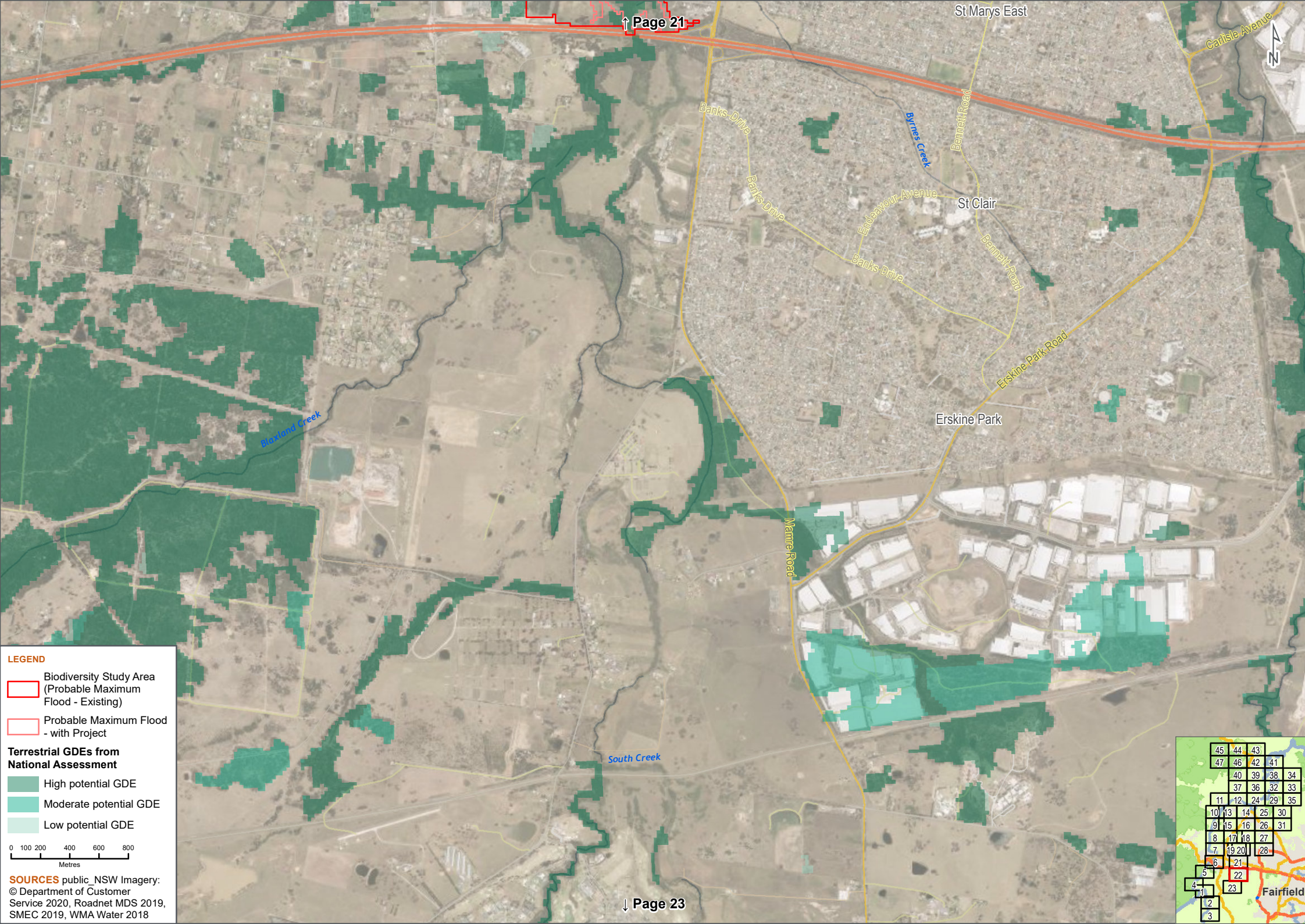
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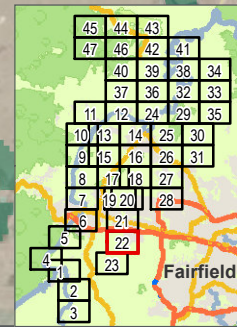
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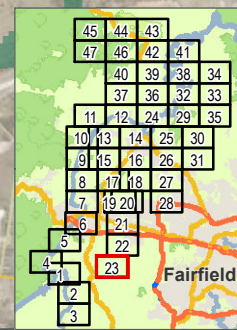
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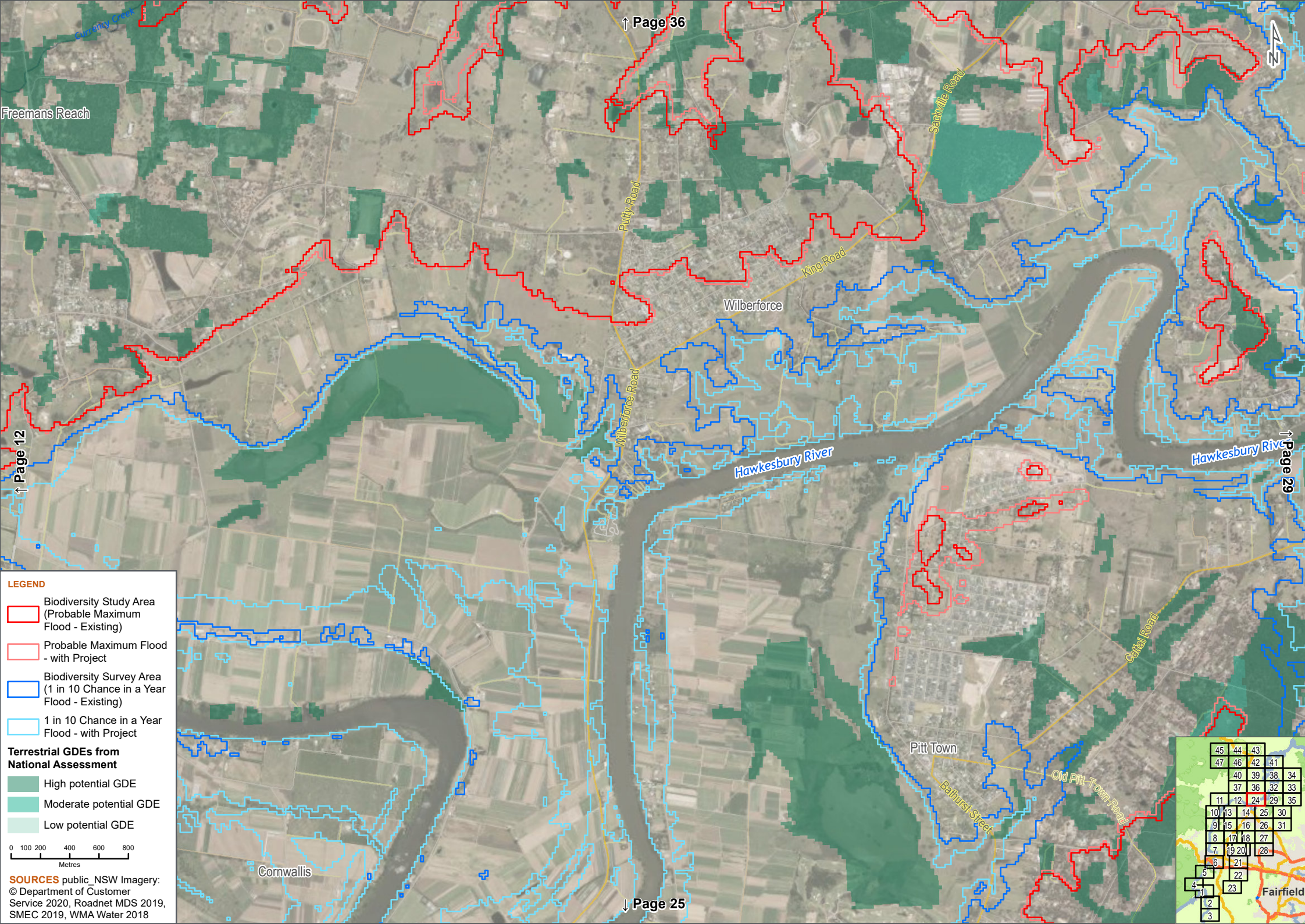
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Freemans Reach

↑ Page 36

Page 29

Page 12

Page 29

Wilberforce

Hawkesbury River

Hawkesbury River

Pitt Town

Old Pitt Town Road

Bathurst Street

Cartell Road

Cornwallis

Fairfield

LEGEND

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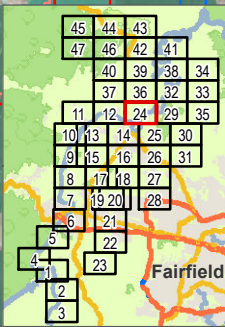
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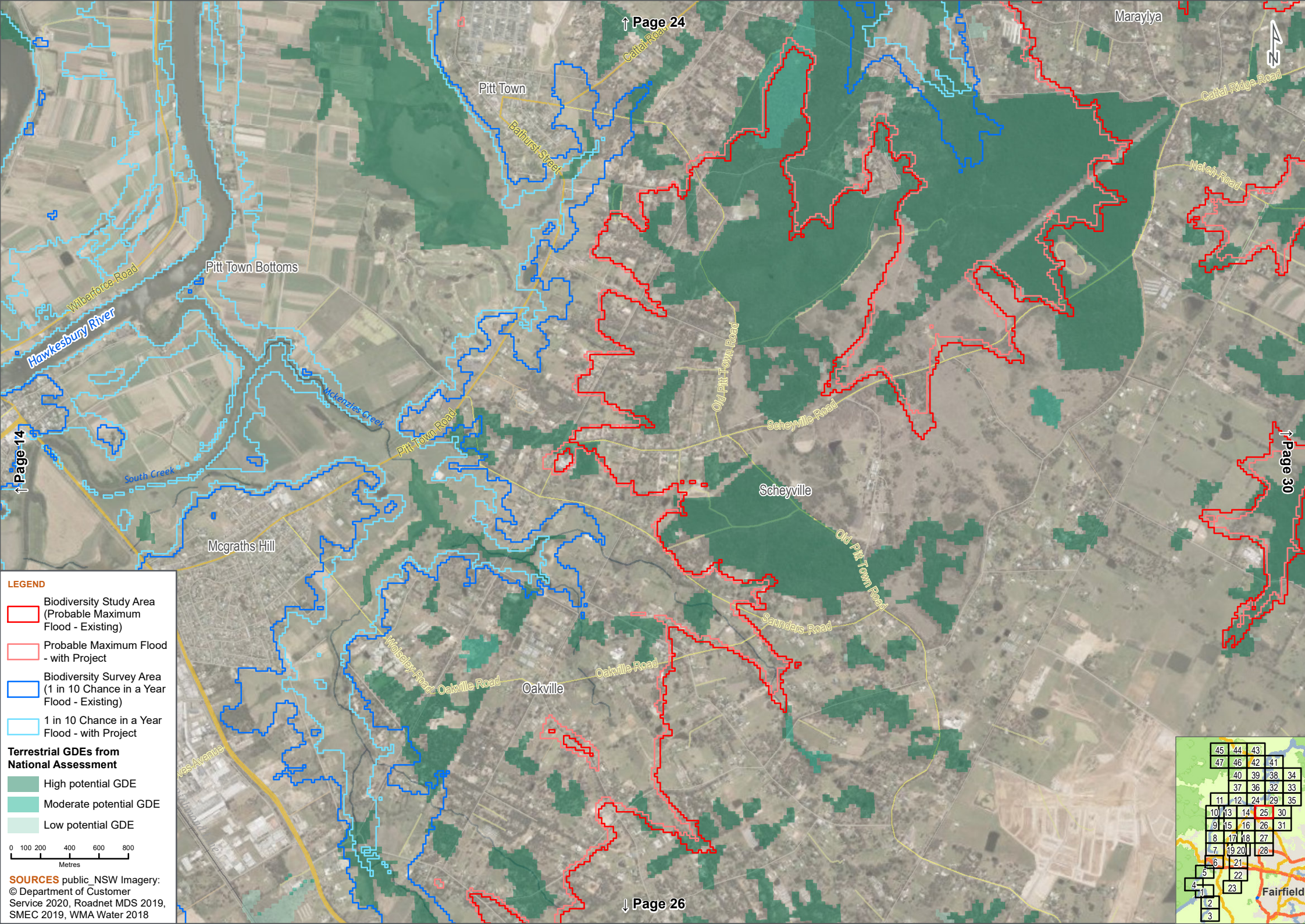
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0 100 200 400 600 800 Metres

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↓ Page 25





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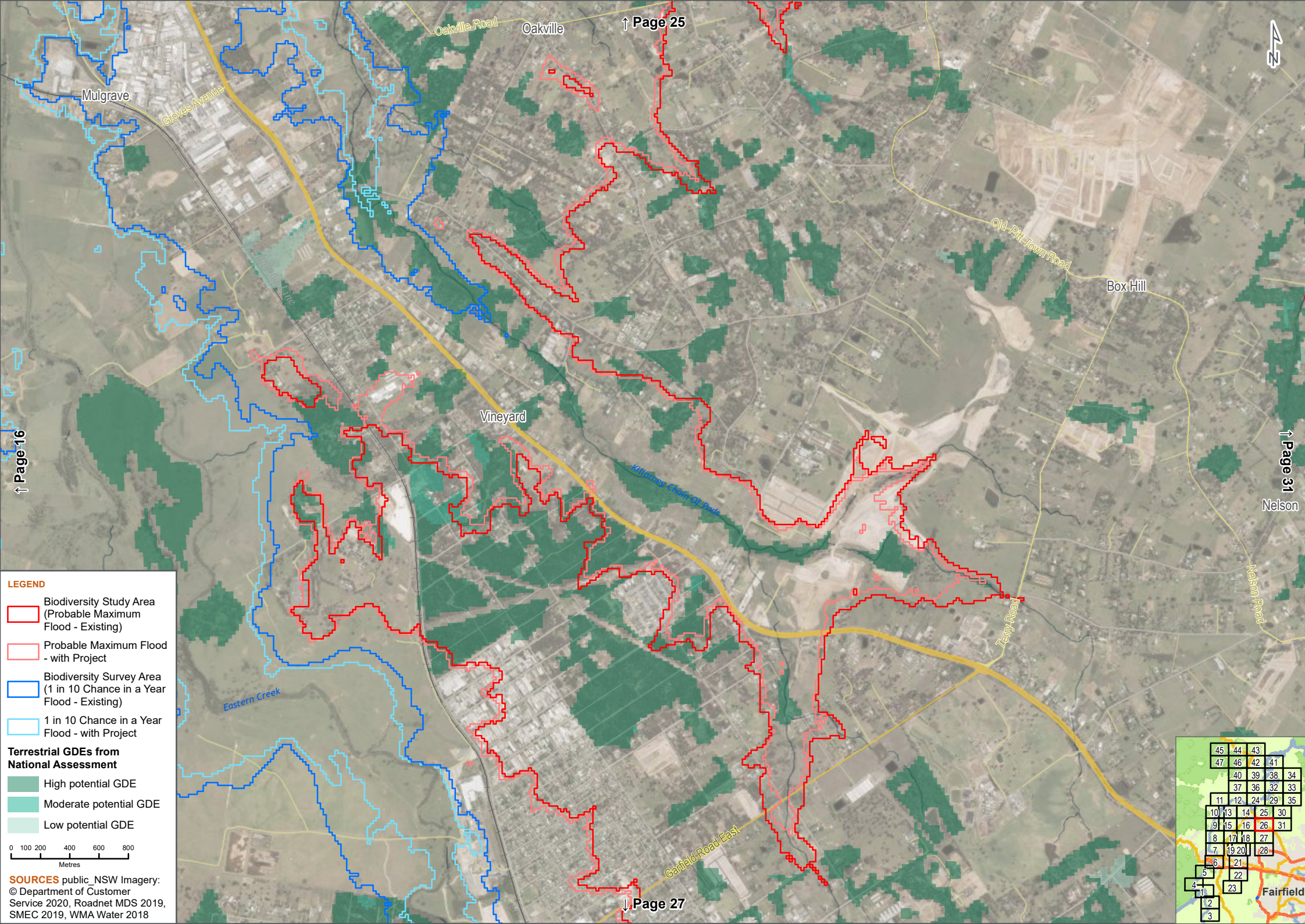
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Fairfield



LEGEND

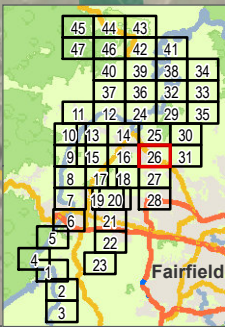
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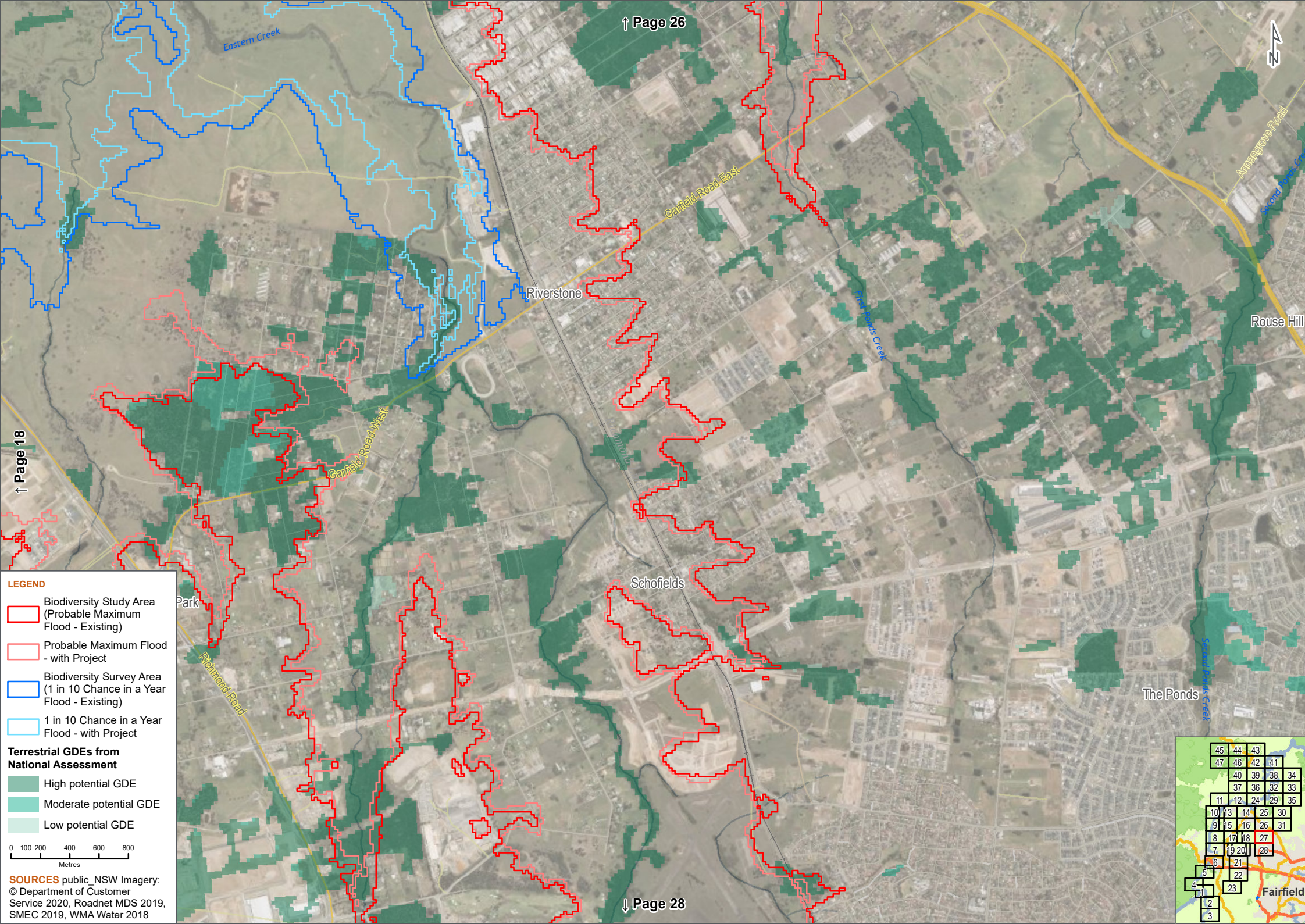
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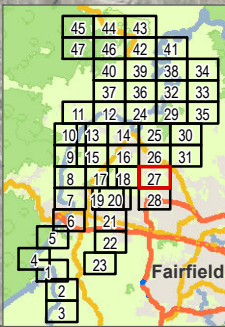
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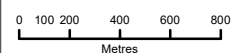


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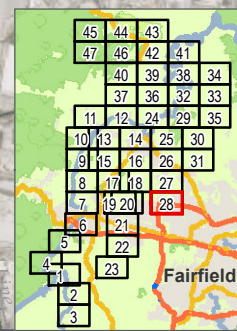
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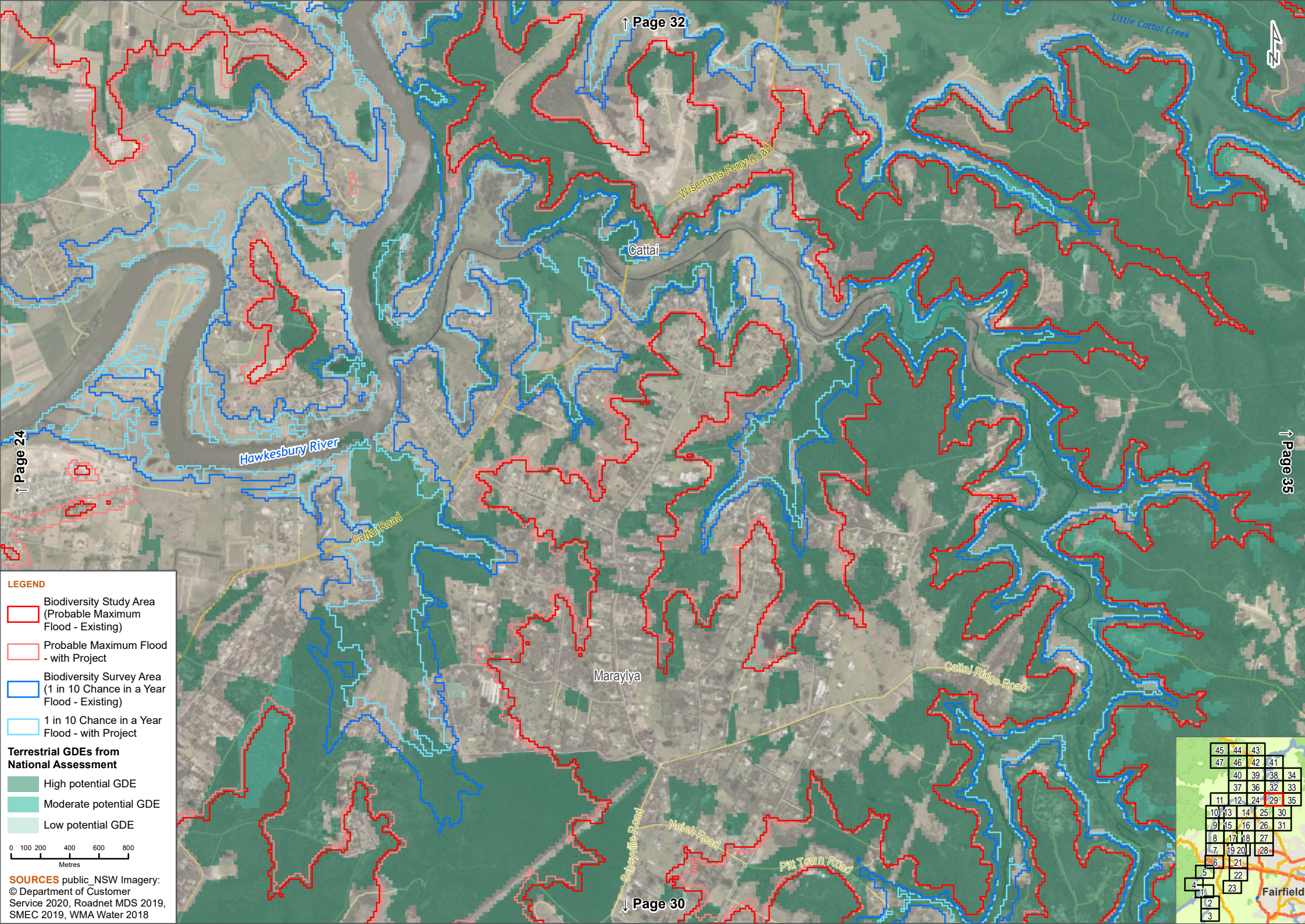
Terrestrial GDEs from National Assessment

- High potential GDE
- Moderate potential GDE
- Low potential GDE



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LEGEND

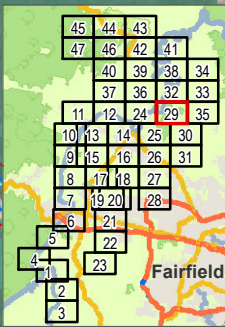
- Biodiversity Study Area (Probable Maximum Flood - Existing)
- Probable Maximum Flood - with Project
- Biodiversity Survey Area (1 in 10 Chance in a Year Flood - Existing)
- 1 in 10 Chance in a Year Flood - with Project

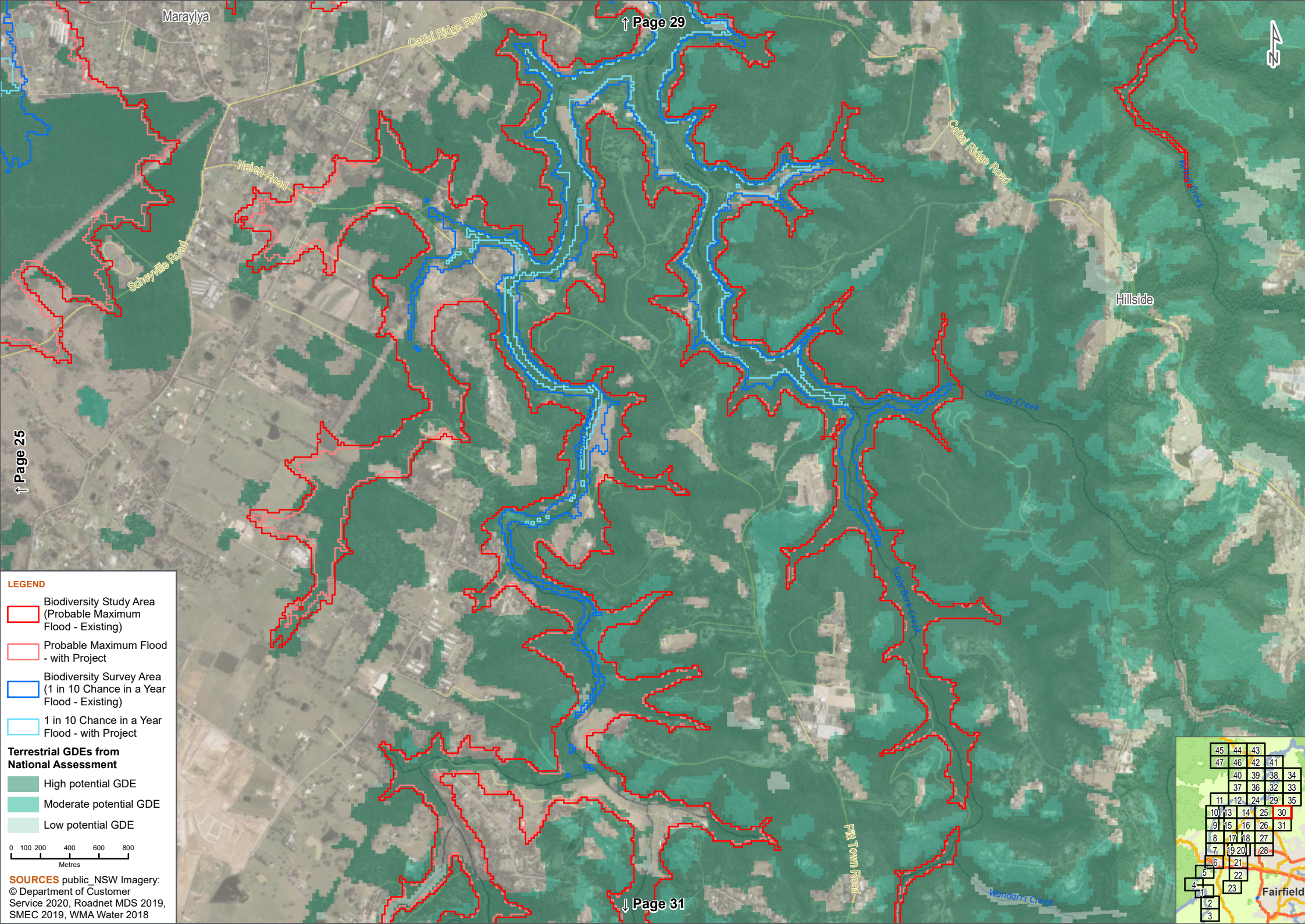
Terrestrial GDEs from National Assessment

- High potential GDE
- Moderate potential GDE
- Low potential GDE

0 100 200 400 600 800
Metres

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Maraylya

↑ Page 29



Nalah Road

Catfai Ridge Road

Scheyville Road

Hillside

↑ Page 25

LEGEND

- Biodiversity Study Area (Probable Maximum Flood - Existing)
- Probable Maximum Flood - with Project
- Biodiversity Survey Area (1 in 10 Chance in a Year Flood - Existing)
- 1 in 10 Chance in a Year Flood - with Project

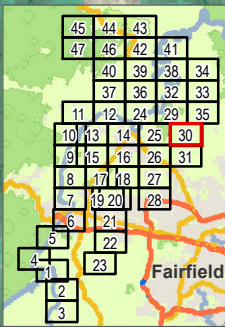
Terrestrial GDEs from National Assessment

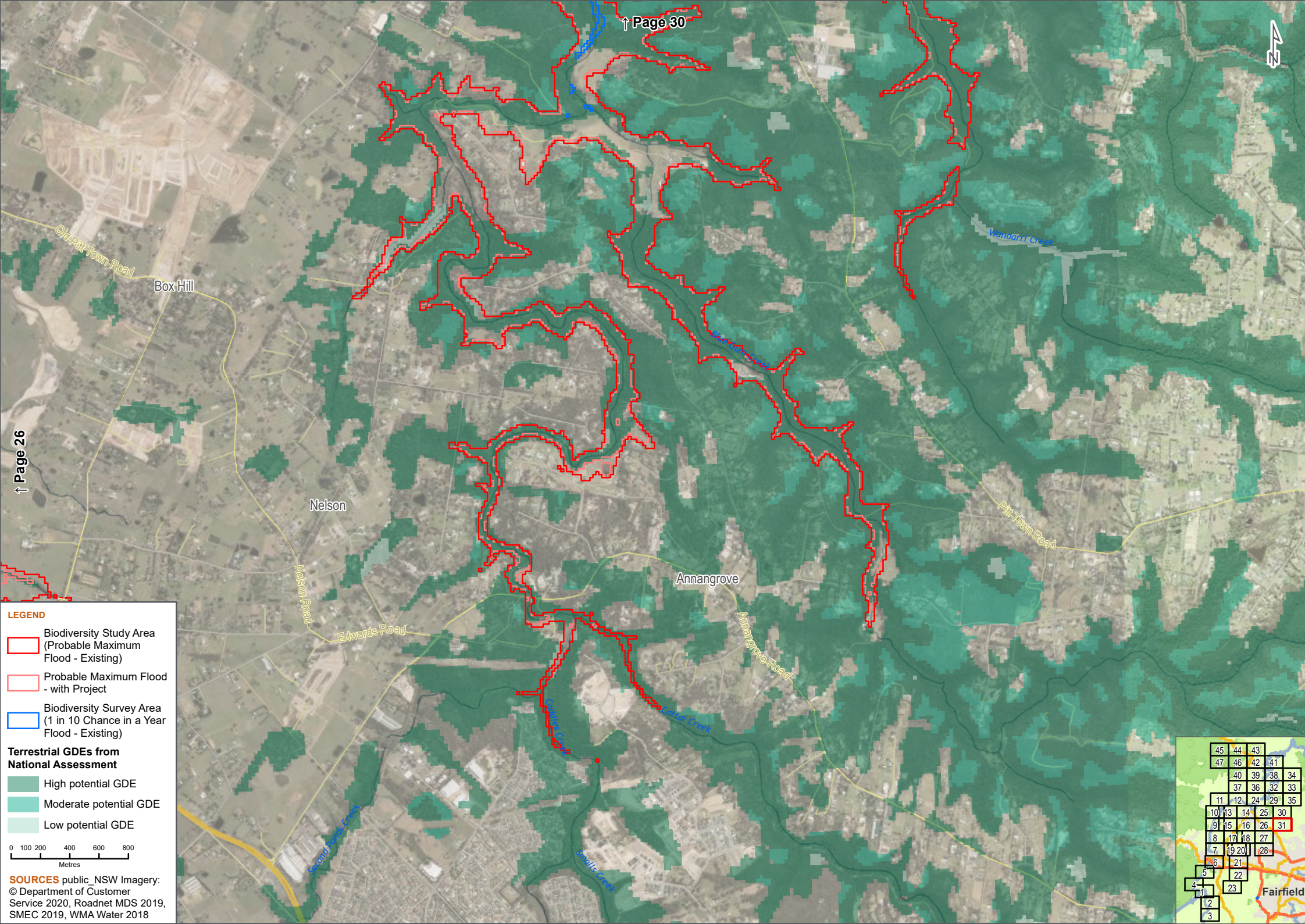
- High potential GDE
- Moderate potential GDE
- Low potential GDE

0 100 200 400 600 800
Metres

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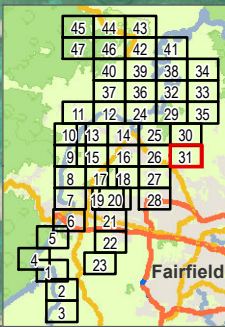
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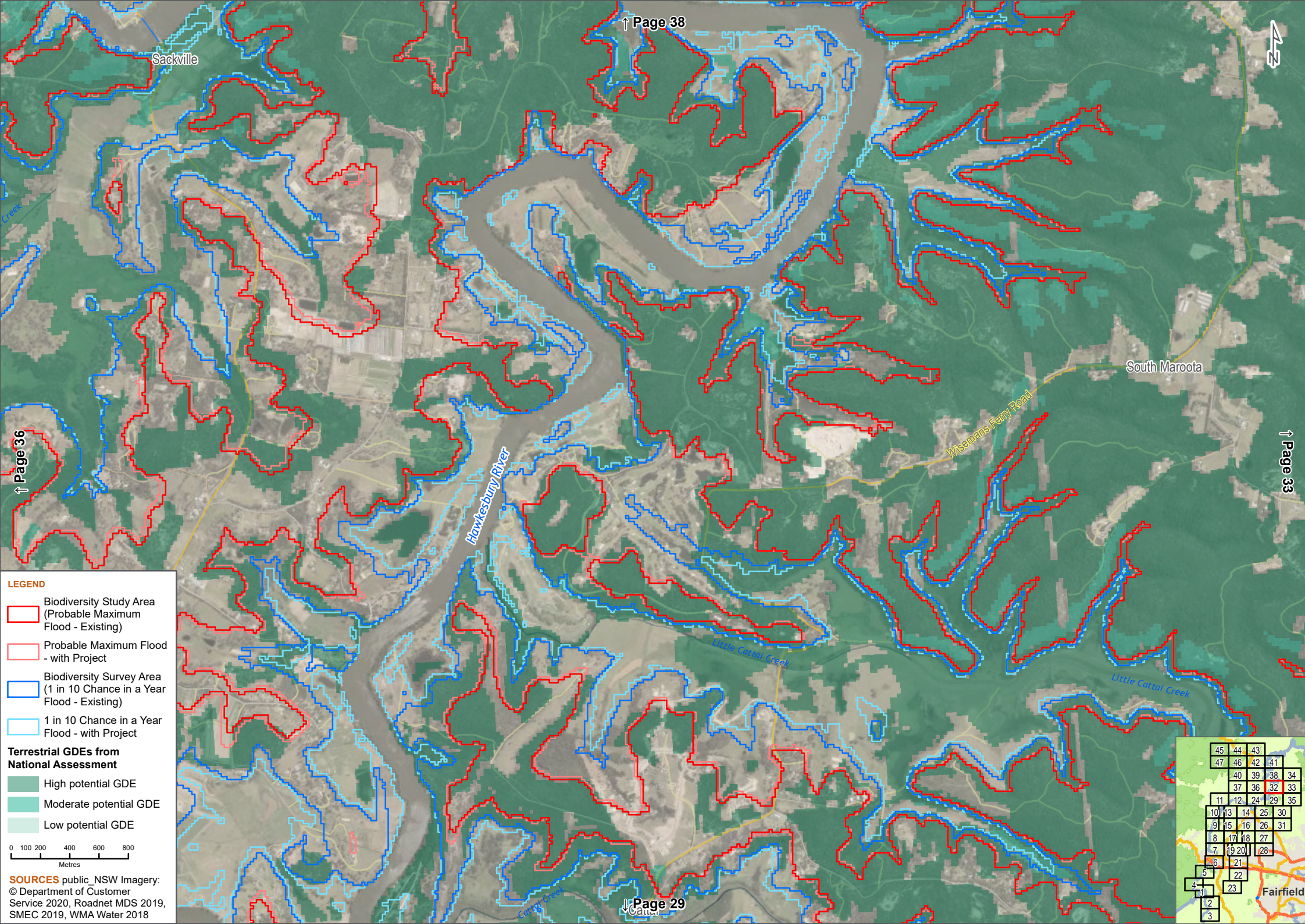
- Biodiversity Study Area (Probable Maximum Flood - Existing)
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Terrestrial GDEs from National Assessment

- High potential GDE
- Moderate potential GDE
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Sackville

↑ Page 38

South Maroota

Wisemans Ferry Road

Hawkesbury River

Little Cattal Creek

Little Cattal Creek

Fairfield

↓ Page 29

↑ Page 36

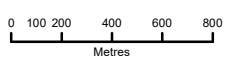
↑ Page 33

LEGEND

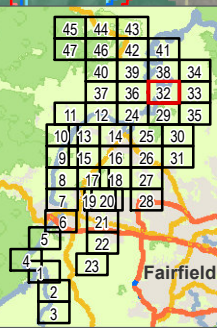
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- 1 in 10 Chance in a Year Flood - with Project

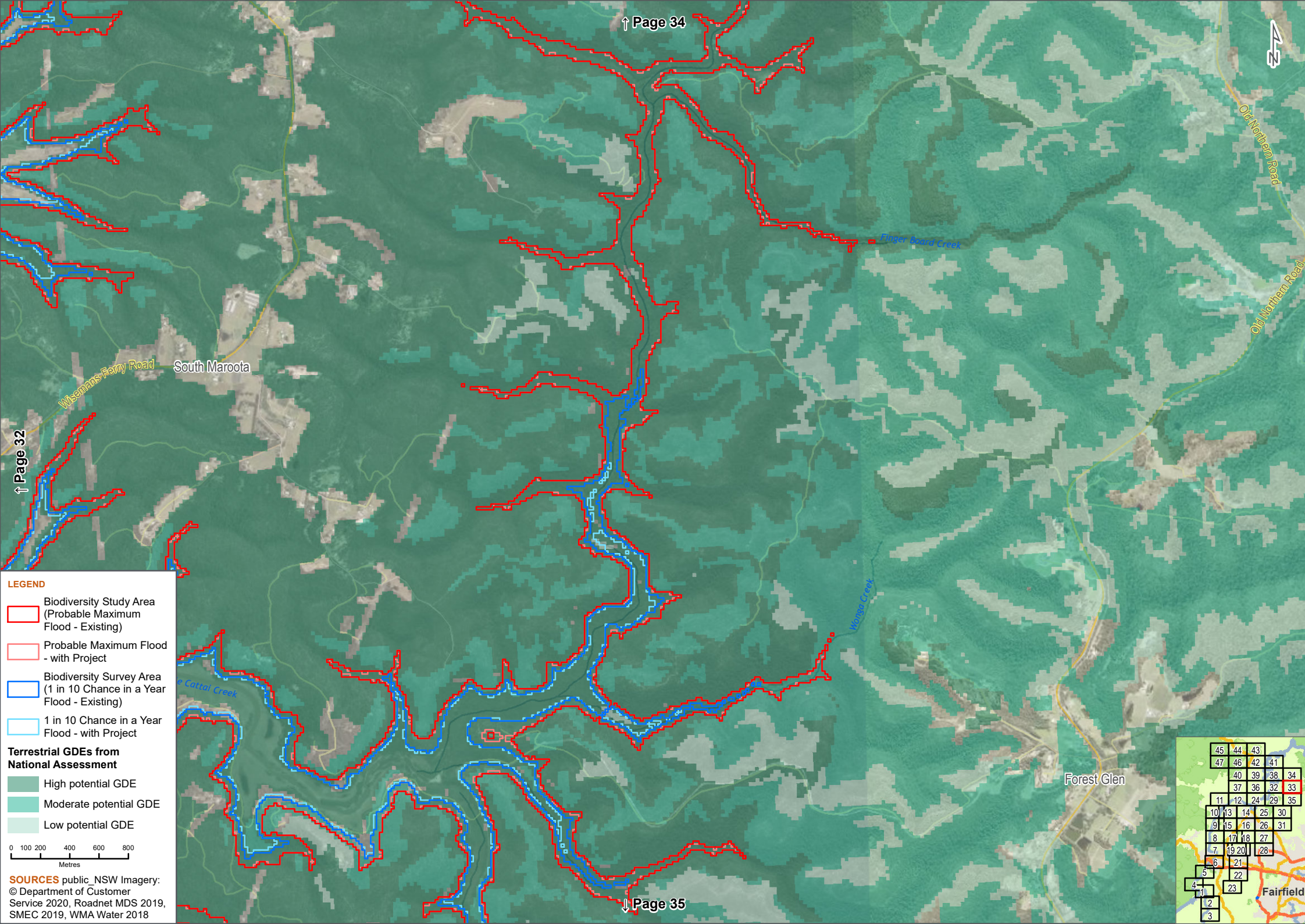
Terrestrial GDEs from National Assessment

- High potential GDE
- Moderate potential GDE
- Low potential GDE



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LEGEND

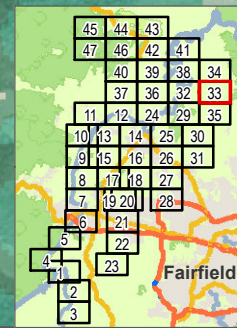
- Biodiversity Study Area (Probable Maximum Flood - Existing)
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Terrestrial GDEs from National Assessment

- High potential GDE
- Moderate potential GDE
- Low potential GDE

0 100 200 400 600 800
Metres

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↑ Page 38

↓ Page 33

LEGEND

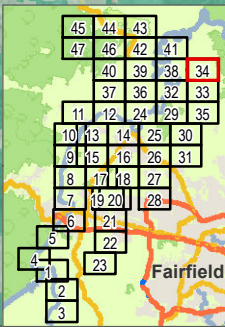
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Terrestrial GDEs from National Assessment

- High potential GDE
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- Low potential GDE

0 100 200 400 600 800
Metres

SOURCES public_NSW Imagery:
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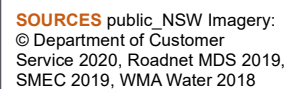


Old Northern Road

Cattal Ridge Road

↑ **Page 29**

- Terrestrial GDEs from National Assessment**
- High potential GDE
 - Moderate potential GDE
 - Low potential GDE



Sackville

Howe Creek

Puffy Road

Sackville Road

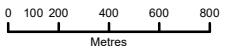
Fairfield

LEGEND

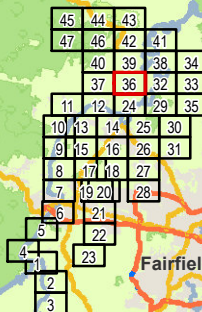
- Biodiversity Study Area
(Probable Maximum
Flood - Existing)
- Probable Maximum Flood
- with Project
- Biodiversity Survey Area
(1 in 10 Chance in a Year
Flood - Existing)
- 1 in 10 Chance in a Year
Flood - with Project

**Terrestrial GDEs from
National Assessment**

- High potential GDE
- Moderate potential GDE
- Low potential GDE



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LEGEND

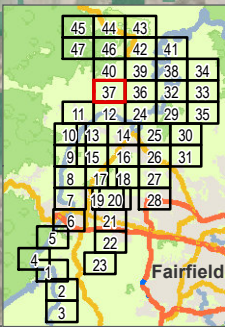
- Biodiversity Study Area (Probable Maximum Flood - Existing)
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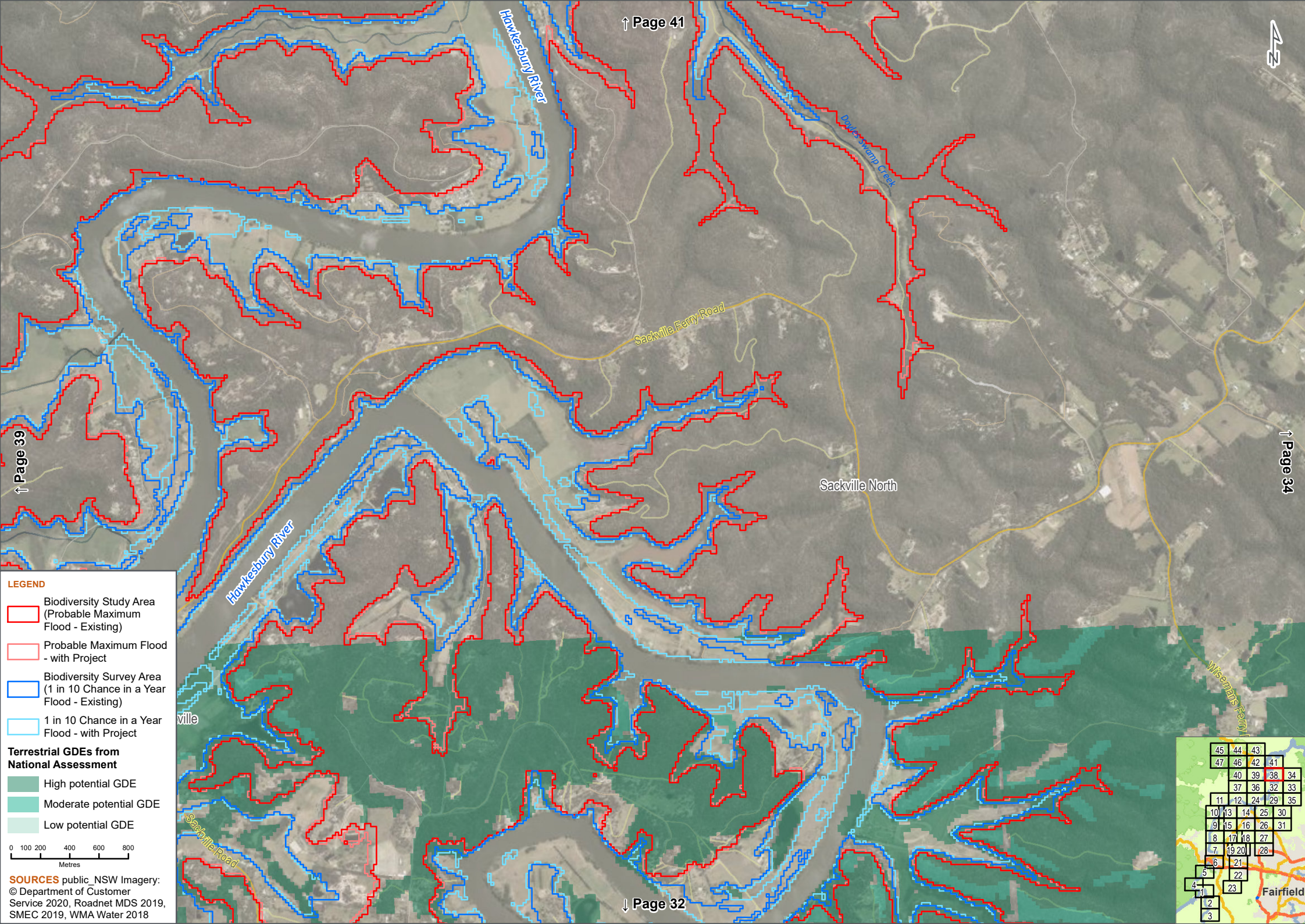
Terrestrial GDEs from National Assessment

- High potential GDE
- Moderate potential GDE
- Low potential GDE

0 100 200 400 600 800
Metres

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LEGEND

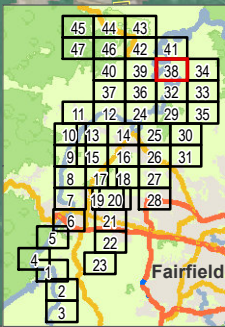
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- Probable Maximum Flood - with Project
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Terrestrial GDEs from National Assessment

- High potential GDE
- Moderate potential GDE
- Low potential GDE

0 100 200 400 600 800
Metres

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LEGEND

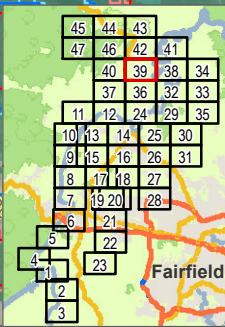
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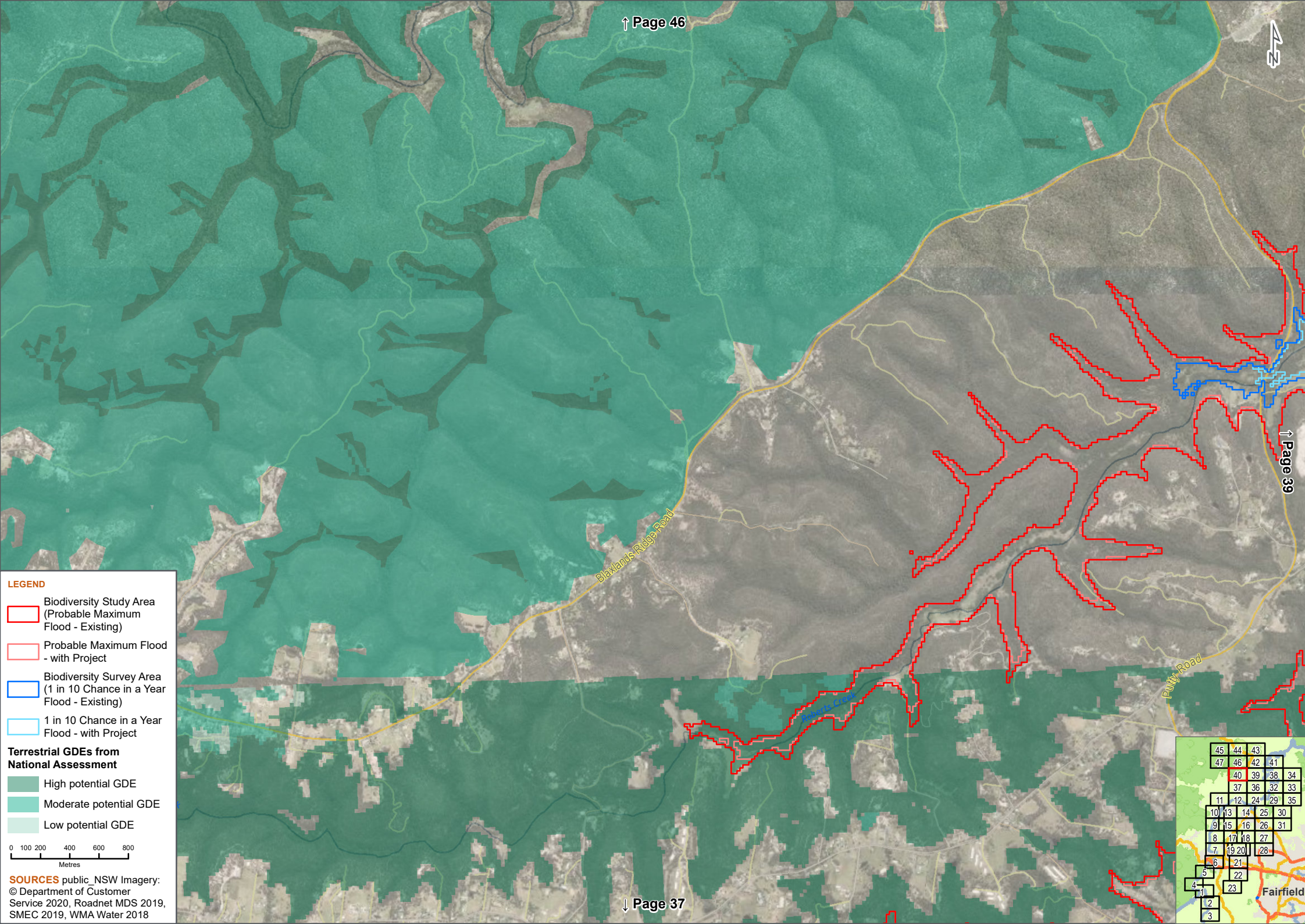
Terrestrial GDEs from National Assessment

- High potential GDE
- Moderate potential GDE
- Low potential GDE

0 100 200 400 600 800
Metres

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LEGEND

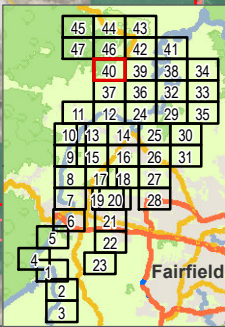
- Biodiversity Study Area (Probable Maximum Flood - Existing)
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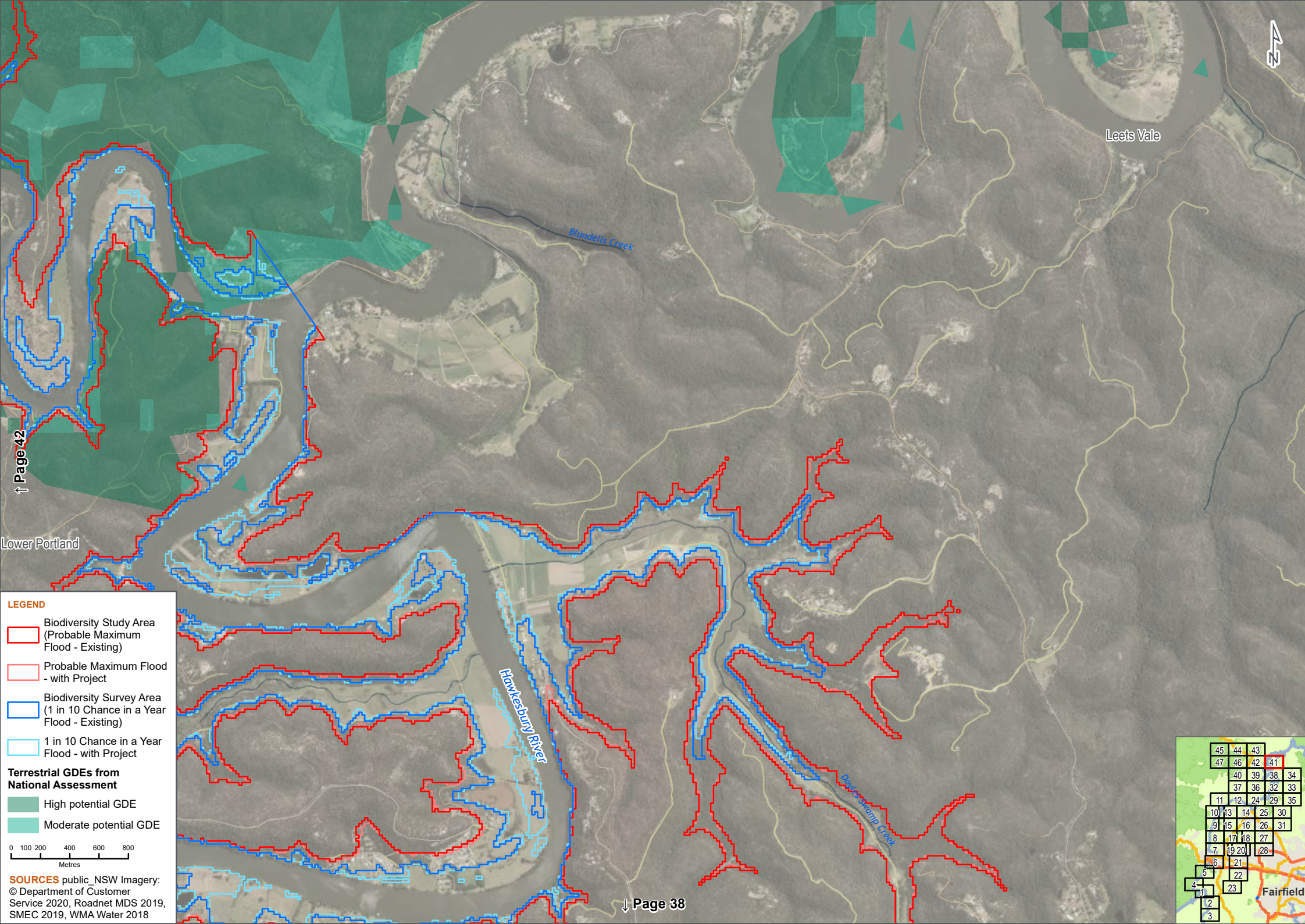
Terrestrial GDEs from National Assessment

- High potential GDE
- Moderate potential GDE
- Low potential GDE

0 100 200 400 600 800
Metres

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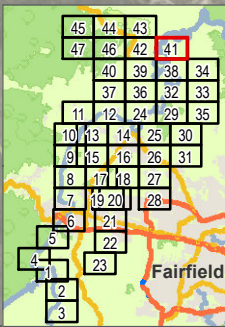
↓ Page 38

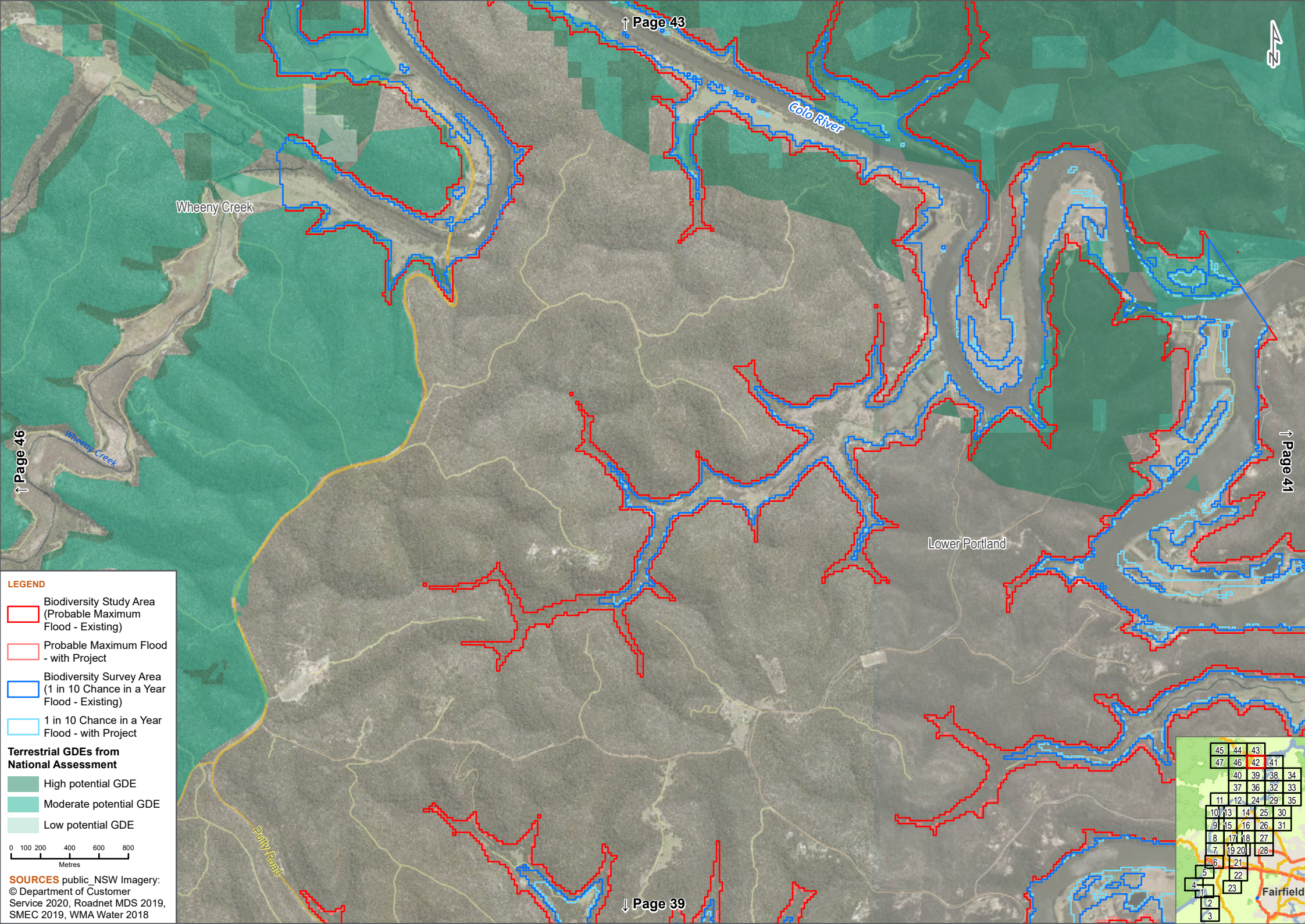
LEGEND

- Biodiversity Study Area (Probable Maximum Flood - Existing)
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- 1 in 10 Chance in a Year Flood - with Project
- Terrestrial GDEs from National Assessment**
 - High potential GDE
 - Moderate potential GDE

0 100 200 400 600 800
Metres

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Colo River

Wheeny Creek

Lower Portland

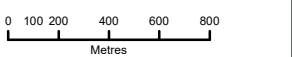
Purty Road

LEGEND

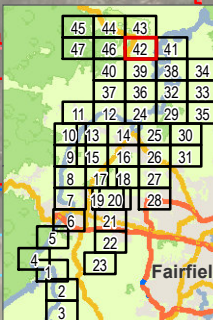
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Terrestrial GDEs from National Assessment

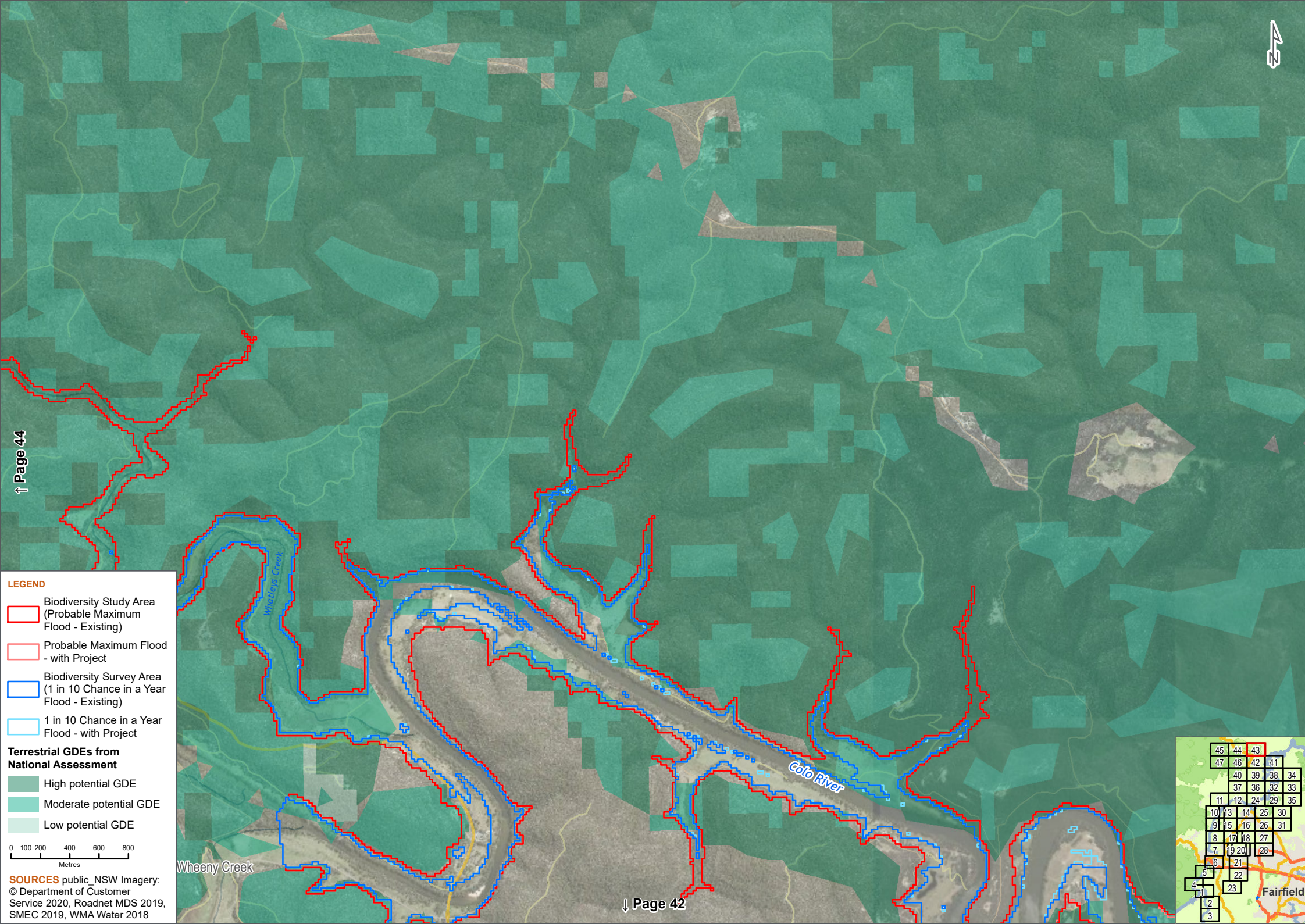
- High potential GDE
- Moderate potential GDE
- Low potential GDE



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Fairfield



↑ Page 44

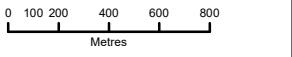
↓ Page 42

LEGEND

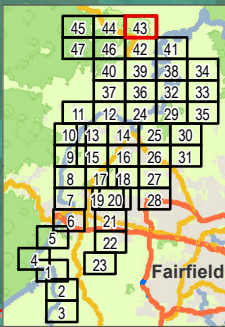
- Biodiversity Study Area
(Probable Maximum
Flood - Existing)
- Probable Maximum Flood
- with Project
- Biodiversity Survey Area
(1 in 10 Chance in a Year
Flood - Existing)
- 1 in 10 Chance in a Year
Flood - with Project

**Terrestrial GDEs from
National Assessment**

- High potential GDE
- Moderate potential GDE
- Low potential GDE



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SMEC 2019, WMA Water 2018





Colo River

Central Colo





Colo

Whittleys Creek




Wheeny

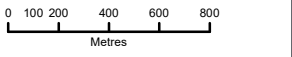
Fairfield

LEGEND

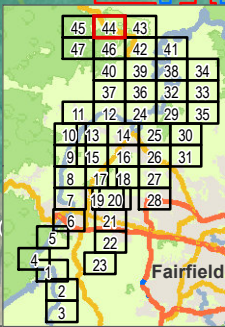
-  Biodiversity Study Area (Probable Maximum Flood - Existing)
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-  1 in 10 Chance in a Year Flood - with Project

Terrestrial GDEs from National Assessment

-  High potential GDE
-  Moderate potential GDE
-  Low potential GDE



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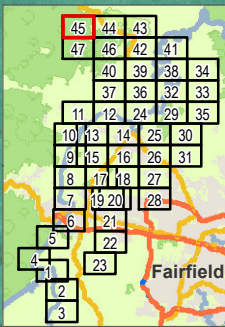
LEGEND

Terrestrial GDEs from National Assessment

- High potential GDE
- Moderate potential GDE
- Low potential GDE

0 100 200 400 600 800
Metres

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Upper Colo

Wheeny Creek

Wheeny Creek

Blaxlands Ridge Road

LEGEND

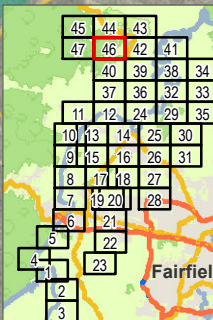
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Terrestrial GDEs from National Assessment

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0 100 200 400 600 800
Metres

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LEGEND

Terrestrial GDEs from National Assessment

- High potential GDE
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- Low potential GDE

0 100 200 400 600 800
Metres

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