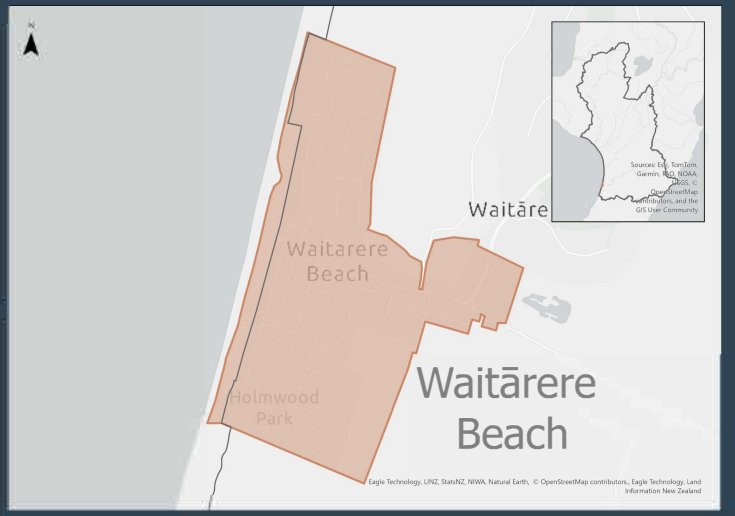
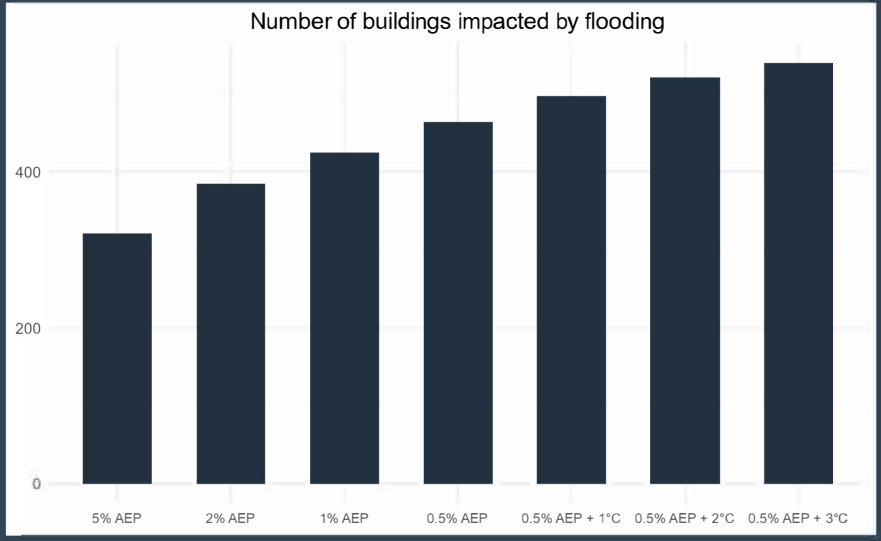
FLOOD VULNERABILITY ASSESSMENT: WAITĀRERE BEACH

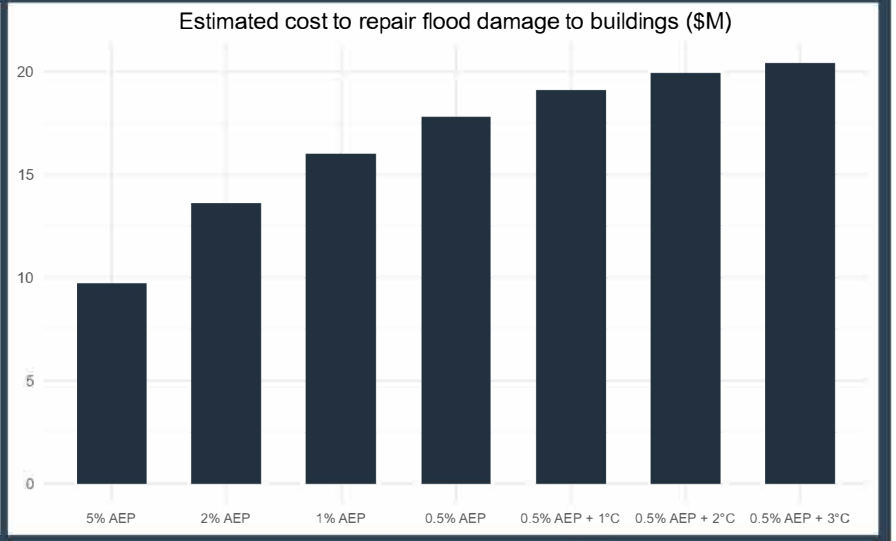
Horizons Regional Council engaged WSP and Earth Sciences NZ to lead the Horizons Flood Vulnerability Assessment, which developed a comprehensive regional flood model to evaluate the flood vulnerability of communities within the Horizons Region. This is a summary of the findings for Waitārere Beach, which has a population of 644 with 1,708 buildings. The model results show the number of buildings impacted and the estimate costs to repair those buildings in floods of different severity. For more detailed information on the flood vulnerability assessment, please refer to the Horizons Regional Council Flood Vulnerability Assessment Report (WSP 2026). The information provided in this document has been developed for a regional view of flood risk. Horizons Regional Council or Horowhenua District Council may hold more specific models and outputs that may be more reliable for decision making.



In Waitārere Beach, as flood events become more severe, both the extent of flooding and the depth of water increase. Annual Exceedance Probabilities (AEP) indicates the likelihood of a flood event occurring in any given year. For example, a 5% AEP means there is a 5% chance of a flood event exceeding this occurring in any given year; whilst a 0.5% AEP means there is a 0.5% chance in any given year.

The modelling found that approximately 320 buildings could be affected in a 5% AEP flood scenario, with an estimated repair cost $10 Million.
However, in a flood scenario of 0.5% AEP + 3°C of warming due to climate change, the estimated number of effected buildings increases to 540 with repair costs of around $20 Million. The extent of flooding in this community may be influenced by coastal sea levels. This is based on regional flood modelling, stormwater networks and their benefits for managing surface water have not been included in this model, leading to conservative impact estimates.





Summary

In Waitārere Beach, 320 to 540 buildings could be impacted by flooding.

This is 19% to 32% of buildings in Waitārere Beach that could be impacted by flooding.

Out of the 52 settlements in the Horizons Region, Waitārere Beach ranks 18th for the number of buildings affected, and 9th for the percentage of buildings within a town settlement affected.

The information presented on this page is a representation of the findings of the Flood Vulnerability Assessment; features shown may not be in their true extent and location. Models have a level of uncertainty, this was derived from a "Level A" Regional Scale model, which is not intended for property level use. Horizons has other flood models which may be a better fit to describe modelled flooding in your particular location; for further information, and terms and conditions of use, see: https://experience.arcgis.com/experience/3f7b4ec2f6f14503af1146ce412de39e

For more information contact us at https://www.horizons.govt.nz/contact-us

horizons REGIONAL COUNCIL
wsp
Earth Sciences New Zealand

Prepared For

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Prepared On
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Community
Waitārere Beach,
Horowhenua District

Scale 1:9,000 at A3

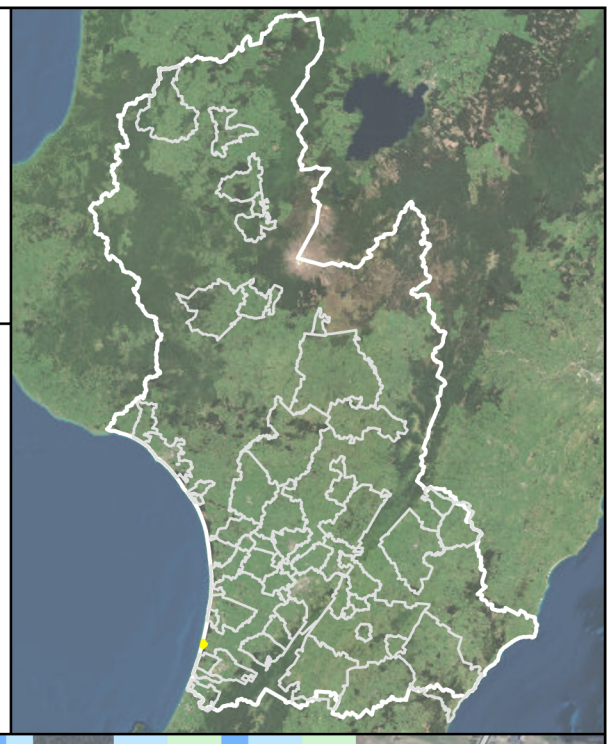
0 0.25 0.5 Km

Legend

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Flood Depth (m)

- 0.05 - 0.20
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- 1.0 - 1.5
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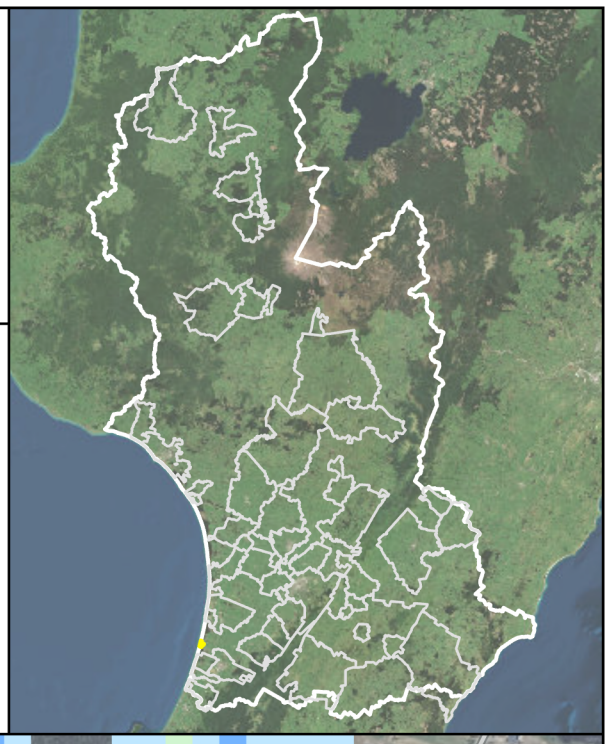
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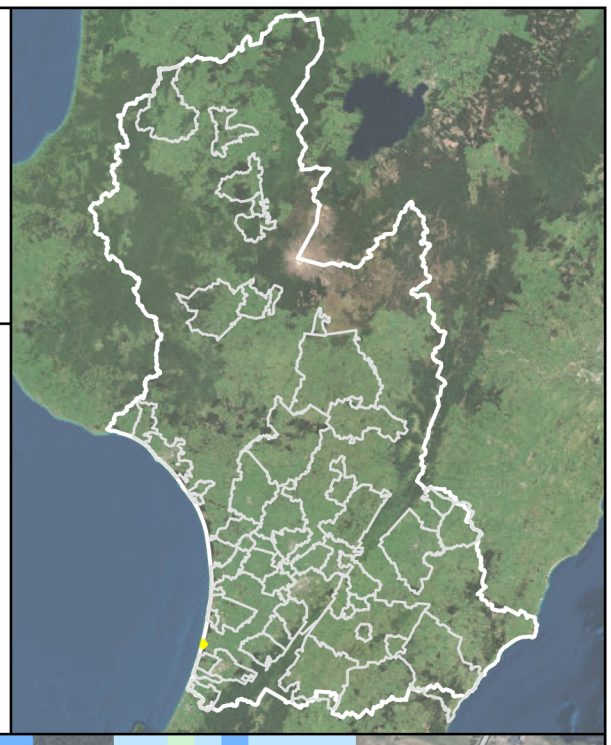
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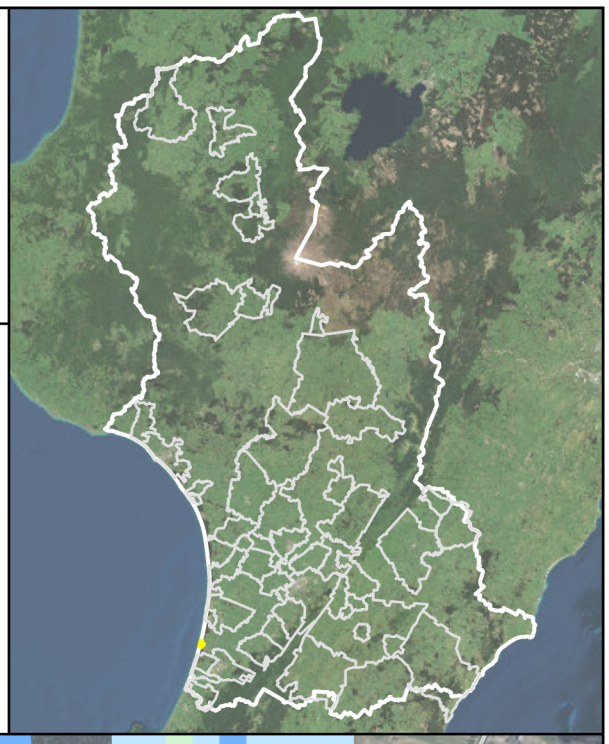
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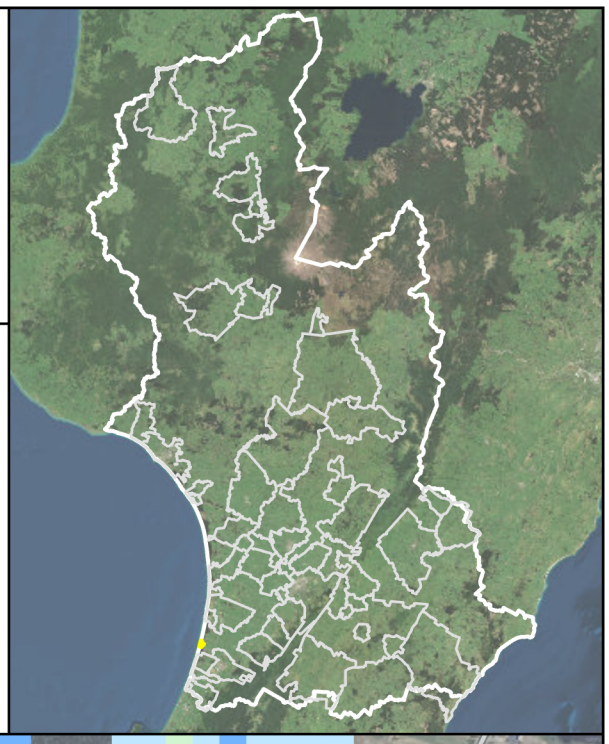
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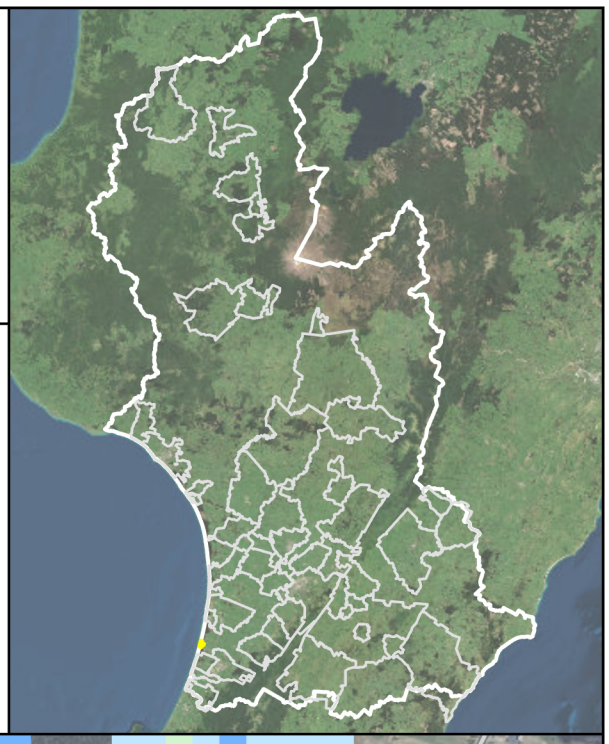
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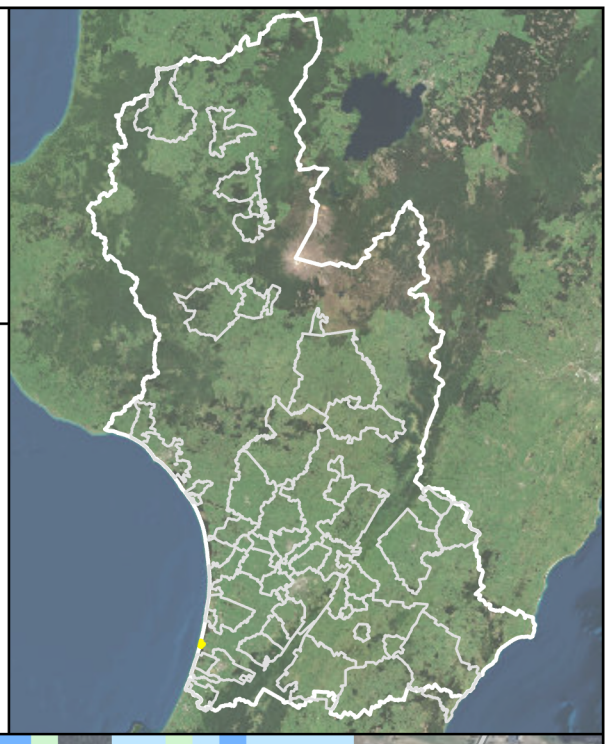
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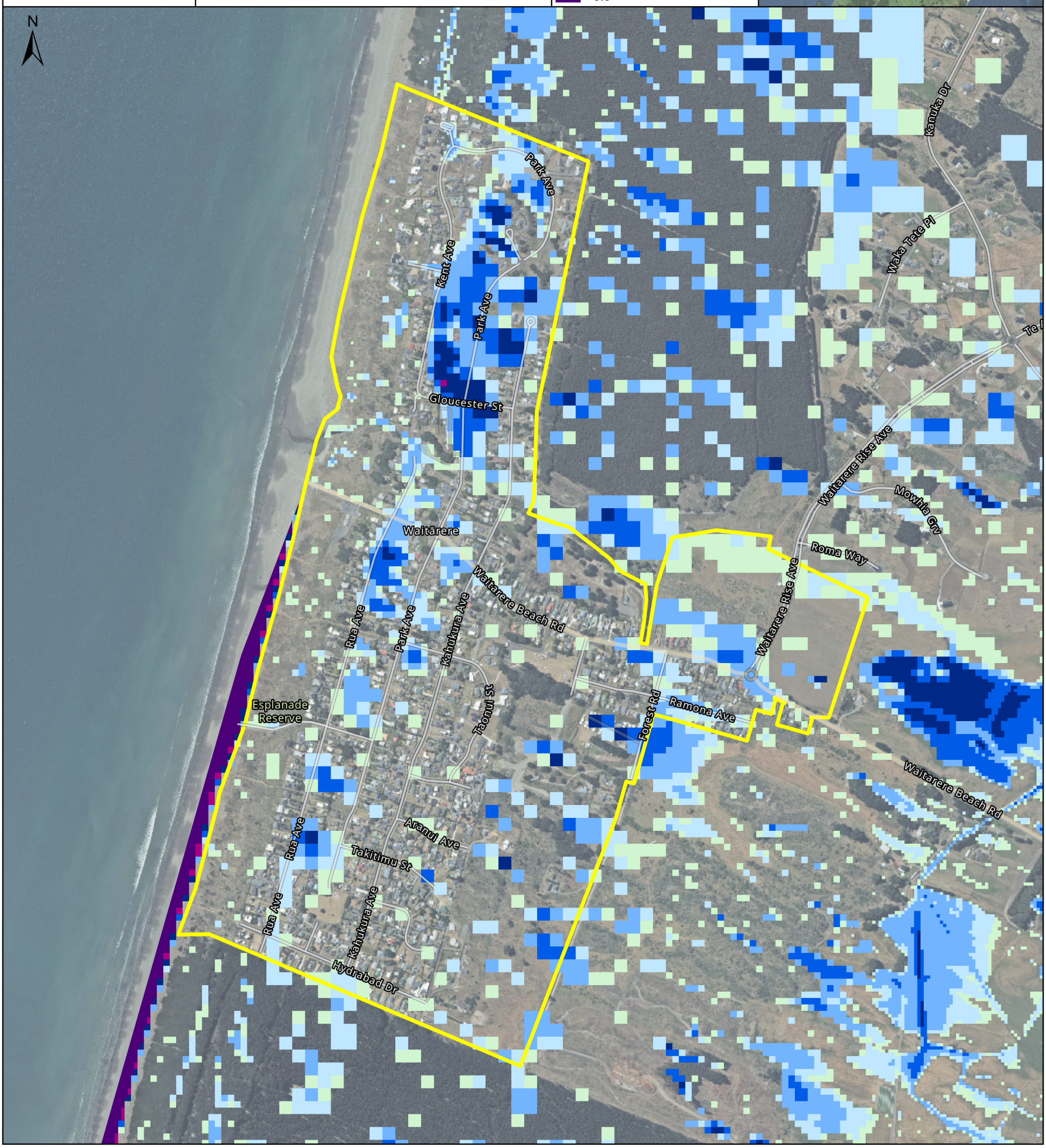
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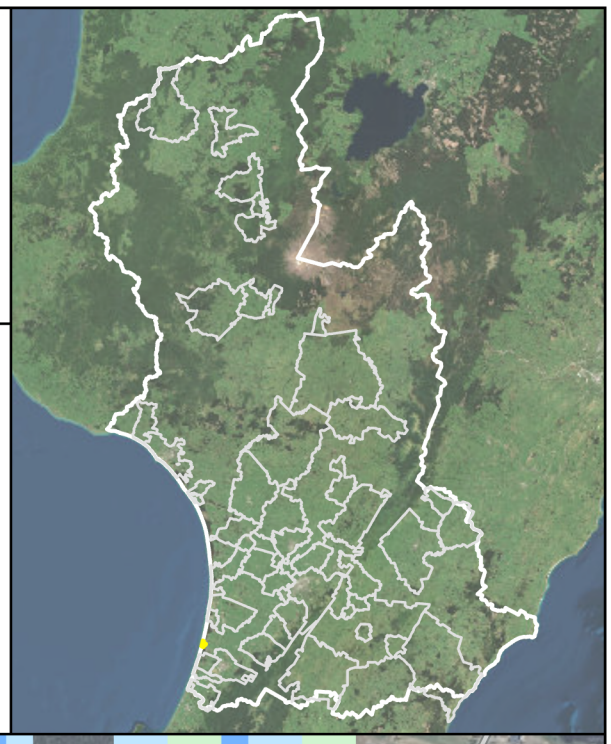
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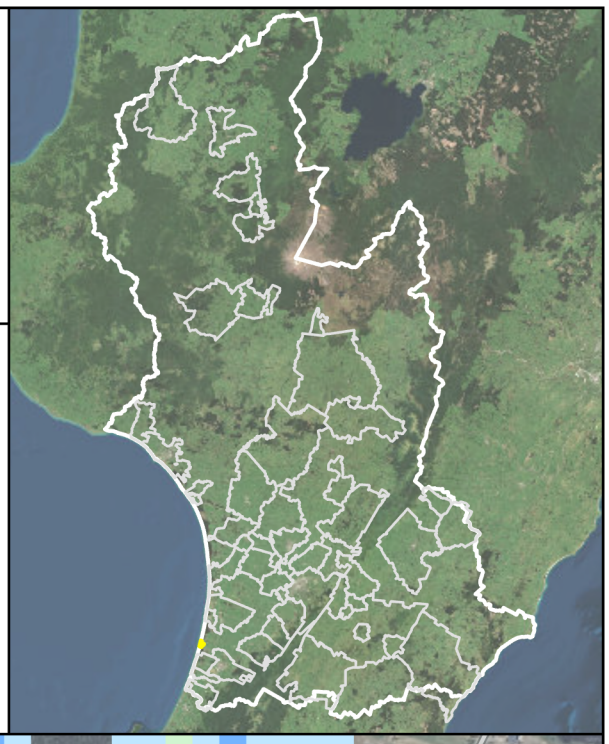
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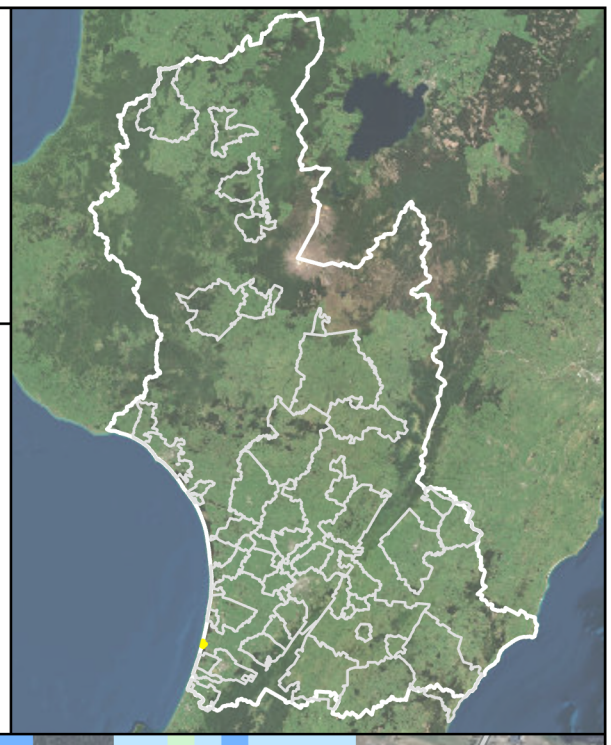
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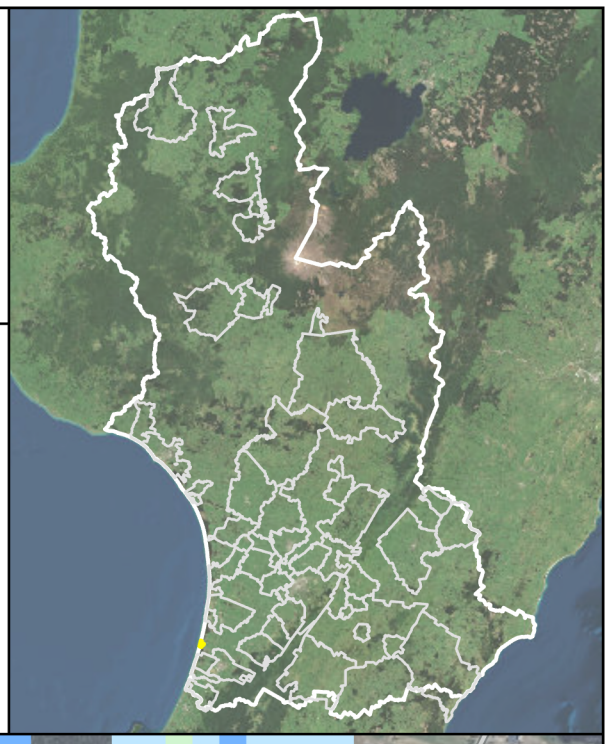
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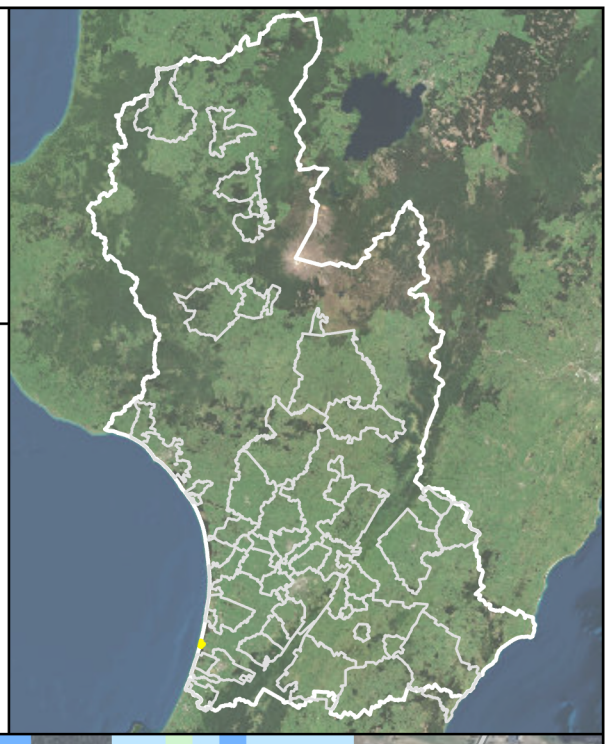
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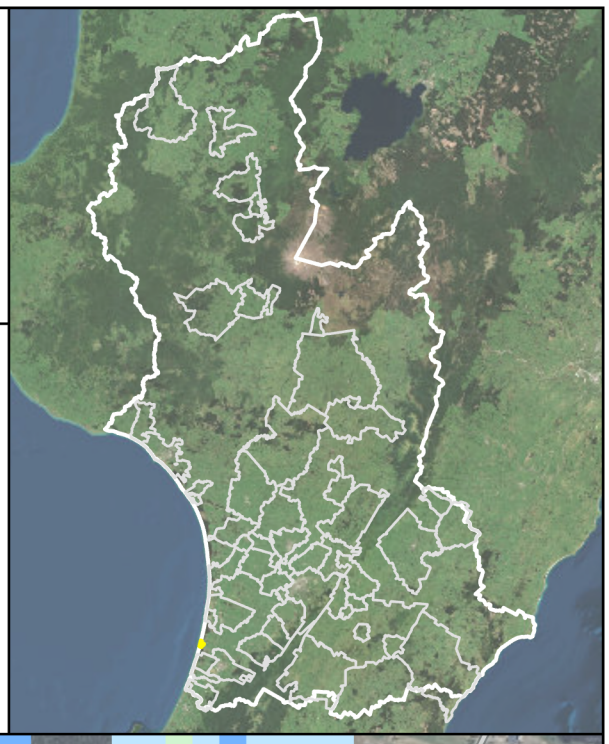
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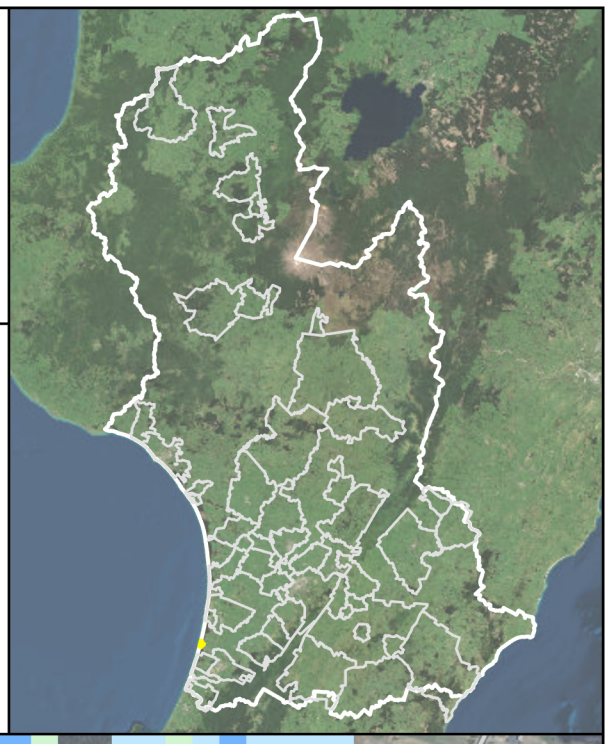
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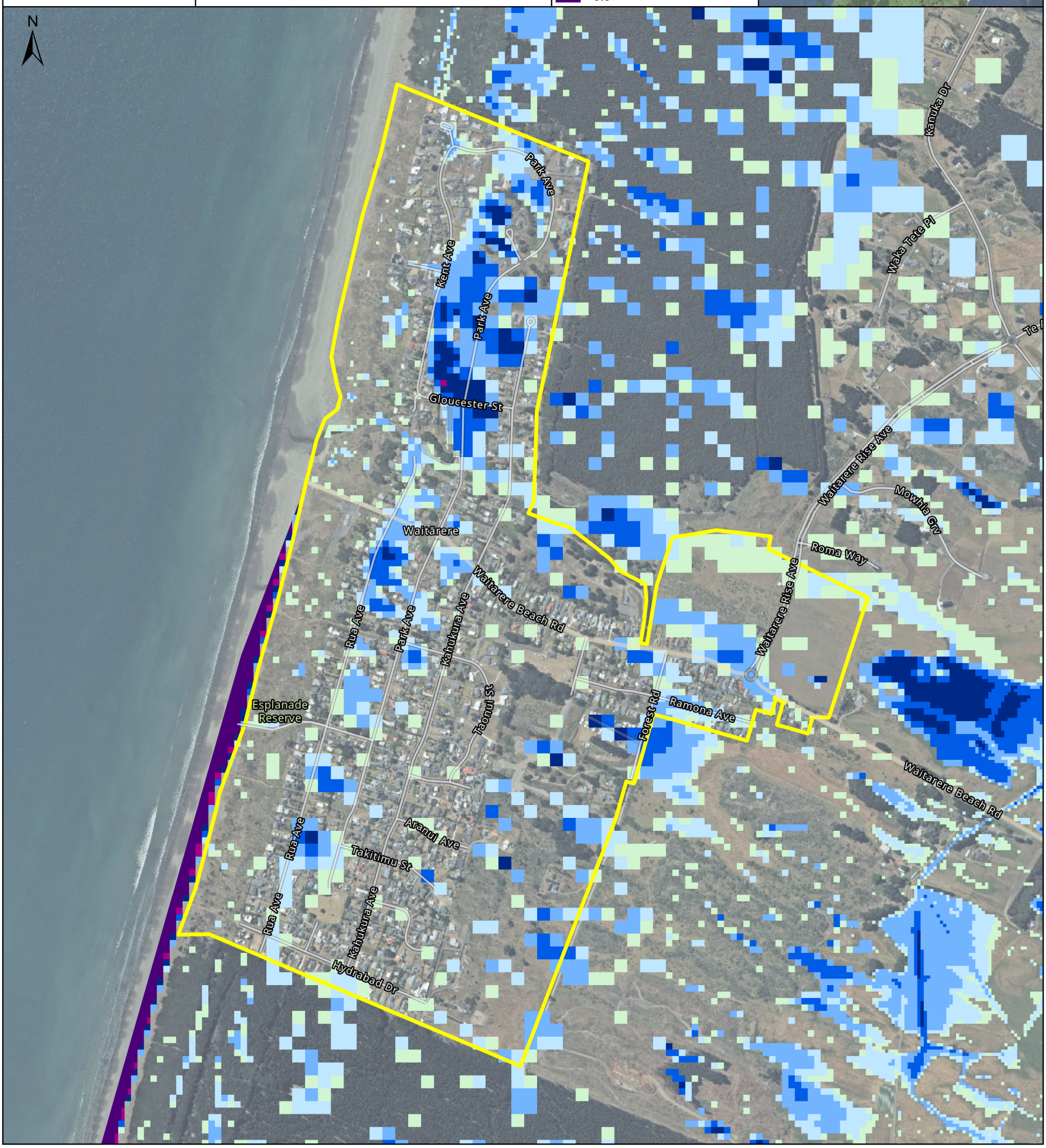
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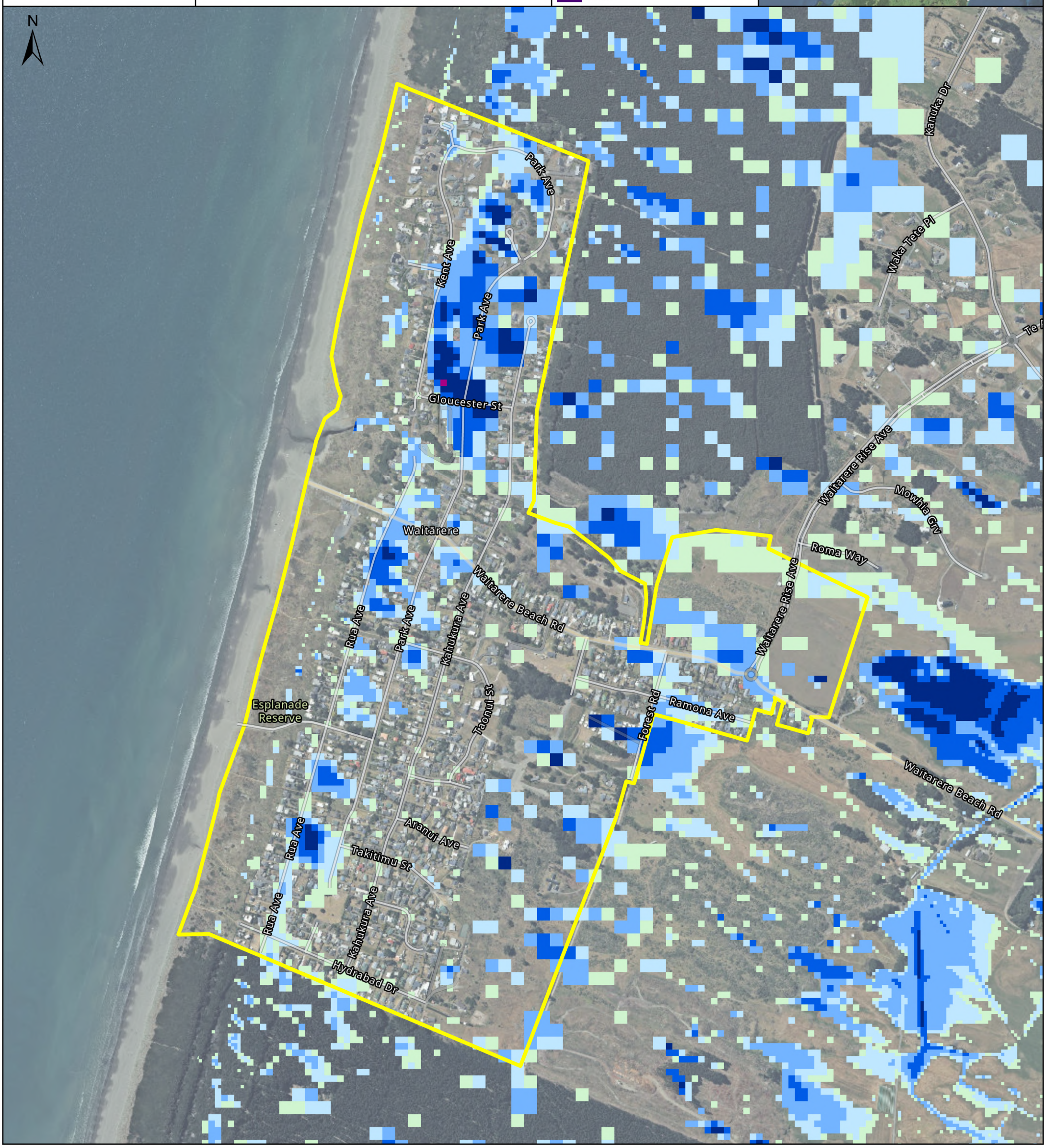
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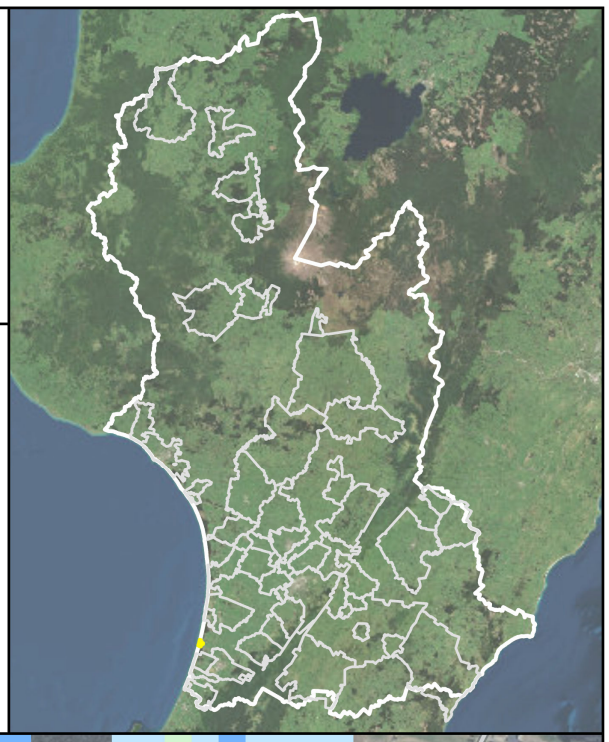
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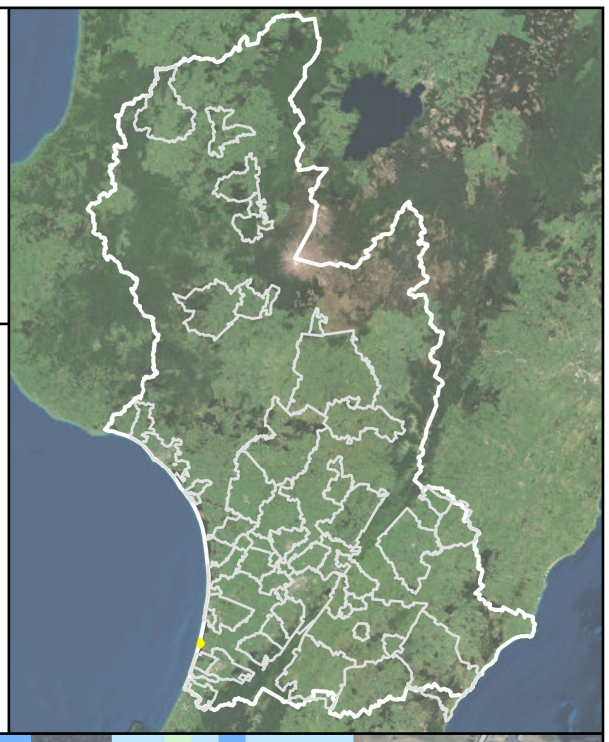
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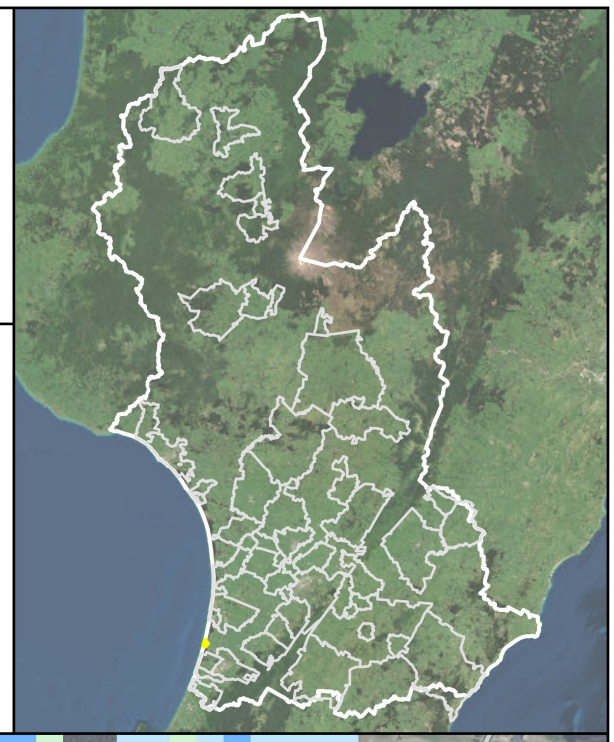
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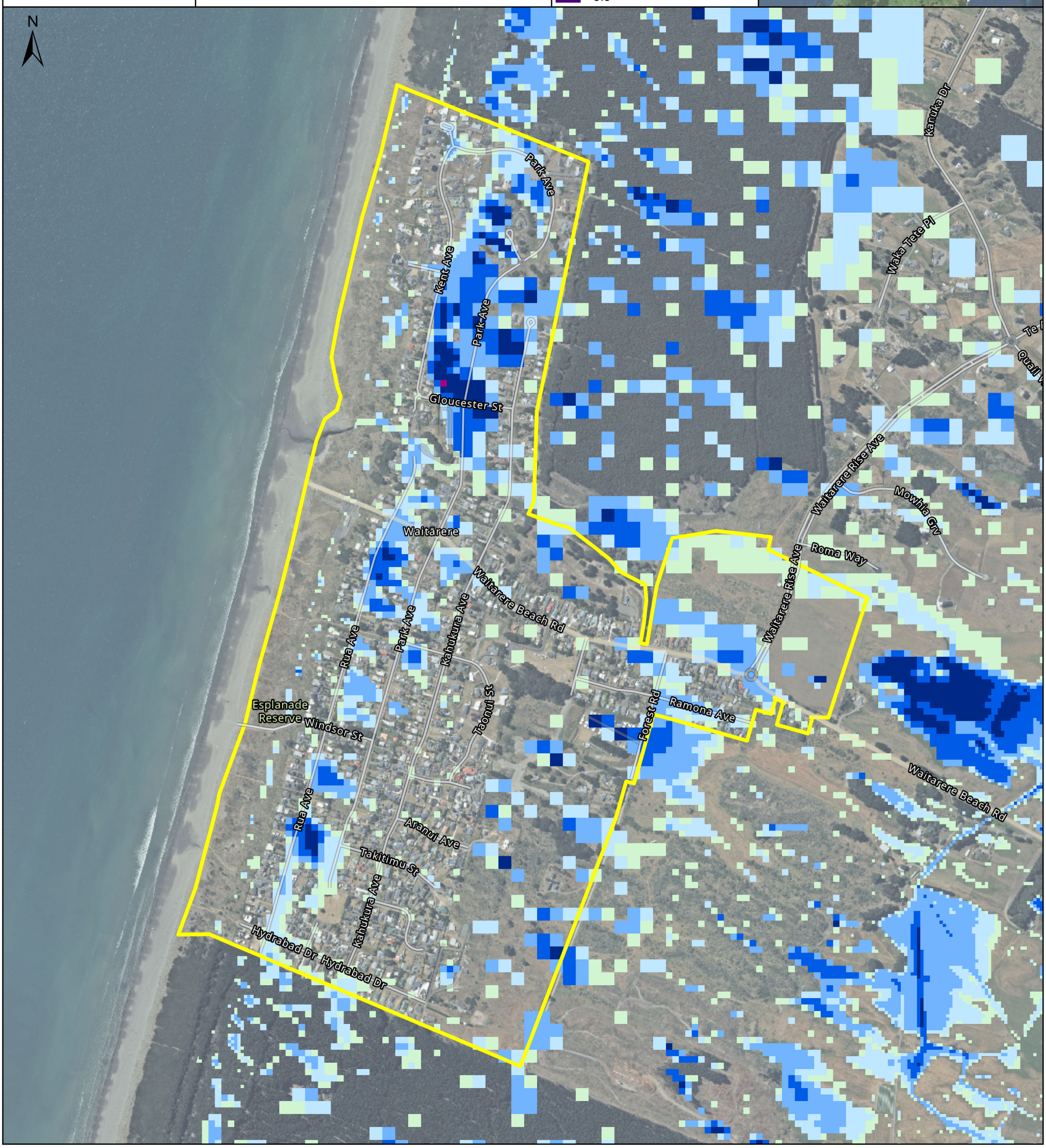
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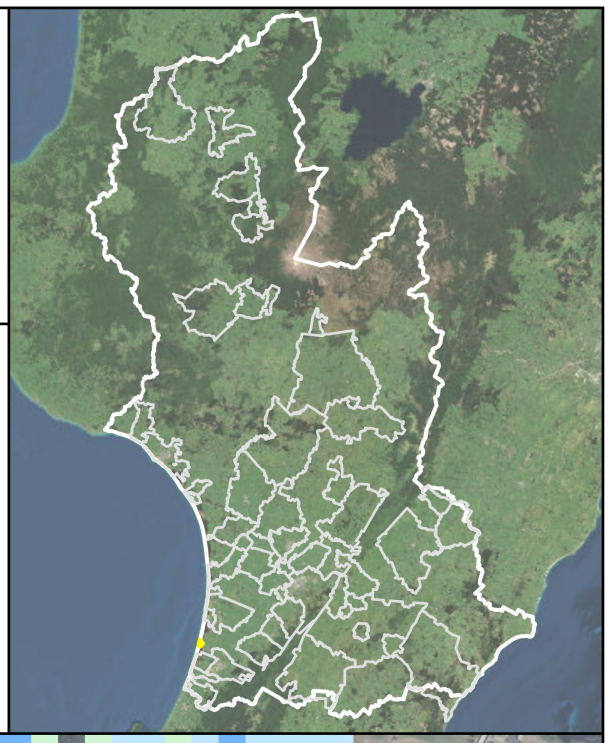
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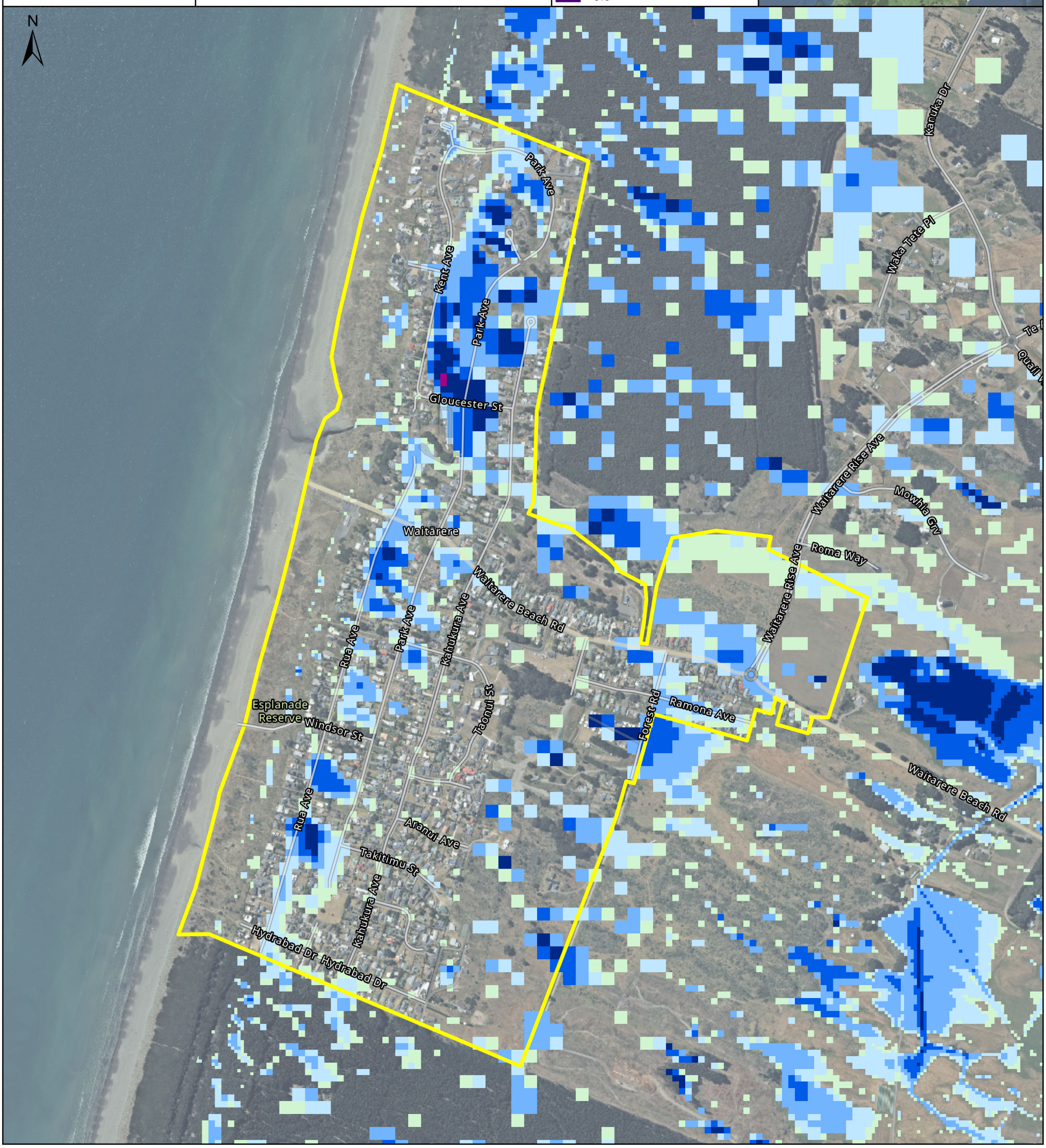
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- 2.5 - 3.5
- >3.5





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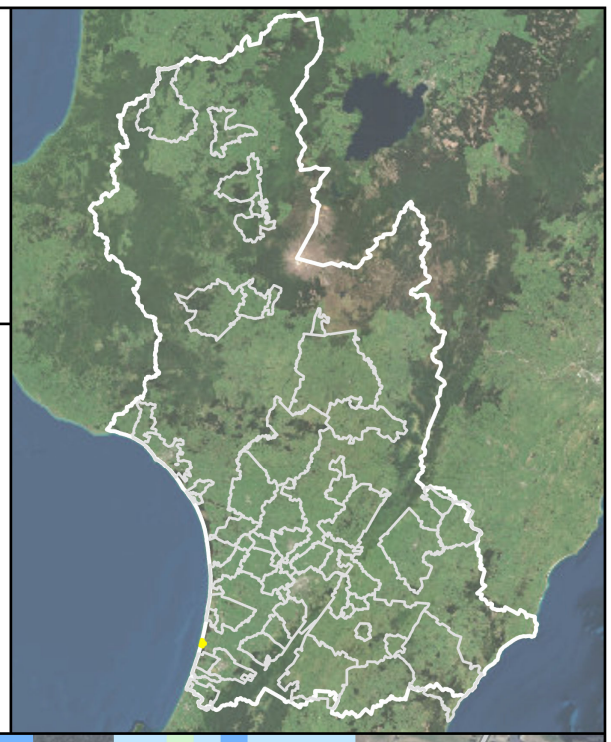
wsp

NIWA Taihoro Nukurangi

Prepared On
05/08/2025

Horizons Region Flood Vulnerability Assessment

Flood scenario: 0.1% annual exceedance probability, flood defences up, 0 degrees warming due to climate change, sea level rise excluded



Community
Waitārere Beach,
Horowhenua District

Scale 1:9,000 at A3

0 0.25 0.5 Km

Legend

- Community Boundary

Flood Depth (m)

- 0.05 - 0.20
- 0.2 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.5
- 2.5 - 3.5
- >3.5

N

Park Ave
Kent Ave
Park Ave
Gloucester St
Waitārere
Kahukura Ave
Waitarere Beach Rd
Rua Ave
Park Ave
Kahukura Ave
Taonui St
Esplanade Reserve
Windsor St
Rua Ave
Aranui Ave
Takitimu St
Kahukura Ave
Hydrabad Dr
Hydrabad Dr
Forest Rd
Ramona Ave
Waitarere Rise Ave
Roma Way
Waitarere Rise Ave
Mowhia Grv
Waka Tete Pl
Kanuka Dr
Waitarere Beach Rd

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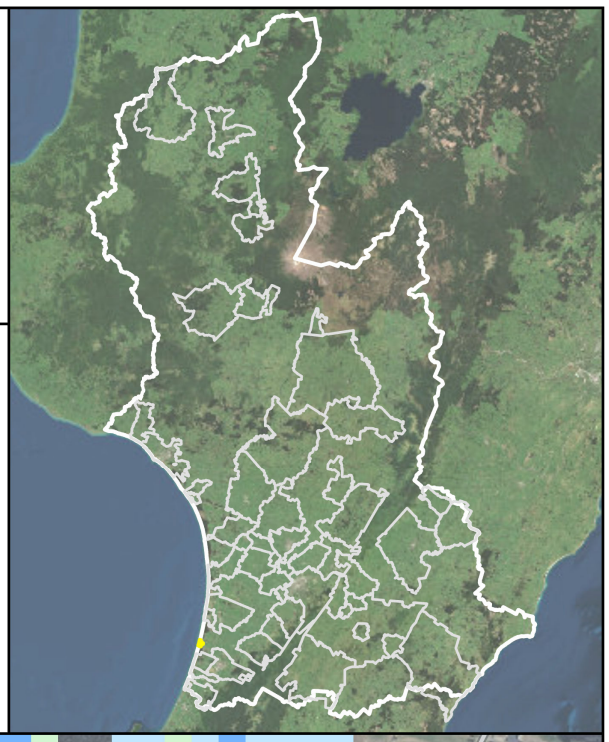
wsp

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Prepared On
05/08/2025

Horizons Region Flood Vulnerability Assessment

Flood scenario: 0.1% annual exceedance probability, flood defences up, 1 degree warming due to climate change, sea level rise excluded



Community
Waitārere Beach,
Horowhenua District

Scale 1:9,000 at A3

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Legend

- Community Boundary

Flood Depth (m)

- 0.05 - 0.20
- 0.2 - 0.5
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- 1.0 - 1.5
- 1.5 - 2.5
- 2.5 - 3.5
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N

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05/08/2025

Horizons Region Flood Vulnerability Assessment

Flood scenario: 0.1% annual exceedance probability, flood defences up, 2 degrees warming due to climate change, sea level rise excluded

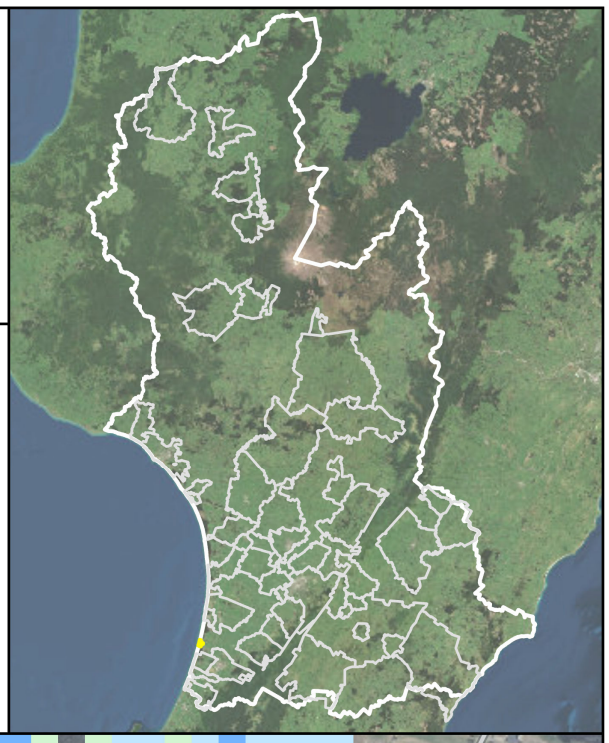
Community
Waitārere Beach,
Horowhenua District

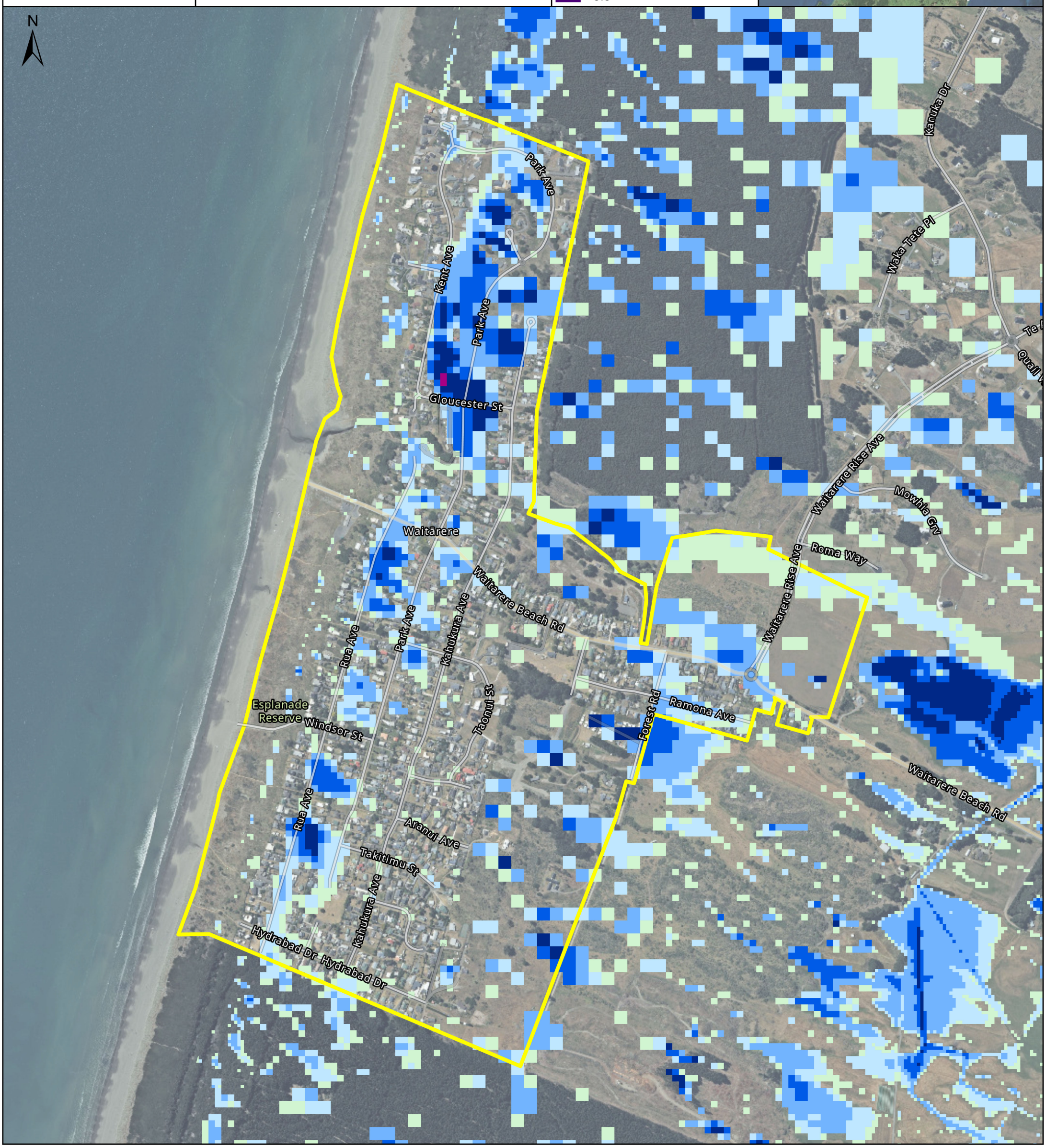
Scale 1:9,000 at A3

0 0.25 0.5 Km

Legend
- Community Boundary

Flood Depth (m)
- 0.05 - 0.20
- 0.2 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.5
- 2.5 - 3.5
- >3.5





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05/08/2025

Horizons Region Flood Vulnerability Assessment

Flood scenario: 0.1% annual exceedance probability, flood defences up, 3 degrees warming due to climate change, sea level rise excluded

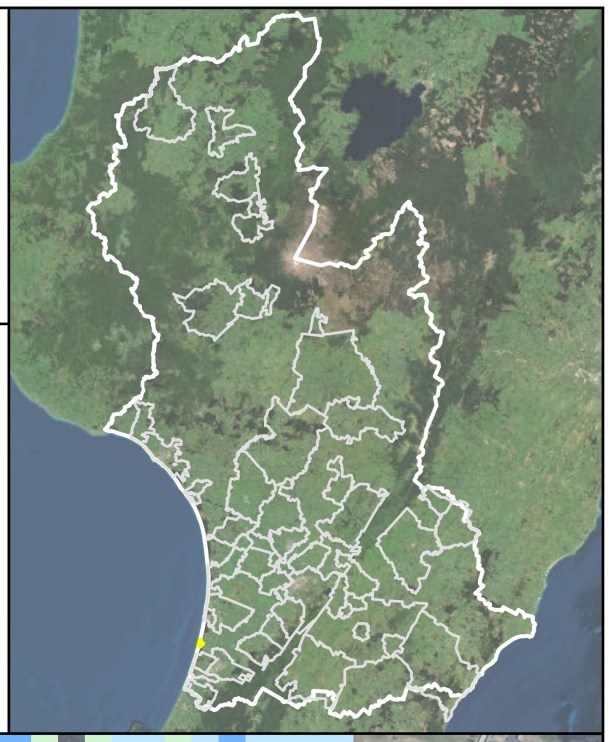
Community
Waitārere Beach,
Horowhenua District

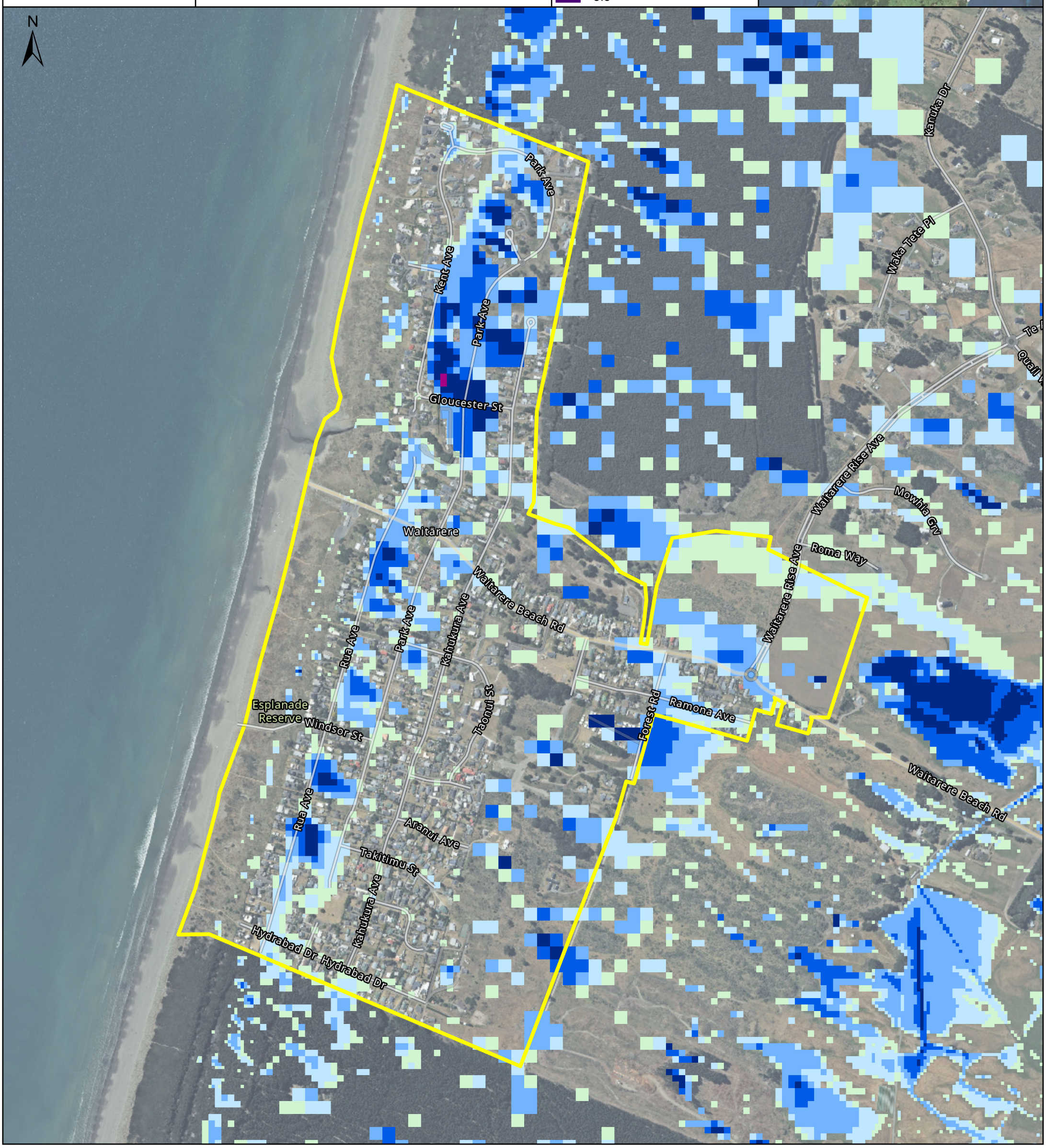
Scale 1:9,000 at A3

0 0.25 0.5 Km

Legend
- Community Boundary

Flood Depth (m)
- 0.05 - 0.20
- 0.2 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.5
- 2.5 - 3.5
- >3.5





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Prepared On

01/07/2025

Horizons Region Flood Vulnerability Assessment

Flood scenario: 5% annual exceedance probability, flood defences down, 0 degrees warming due to climate change, sea level rise excluded

Community
Waitārere Beach,
Horowhenua District

Scale 1:9,000 at A3

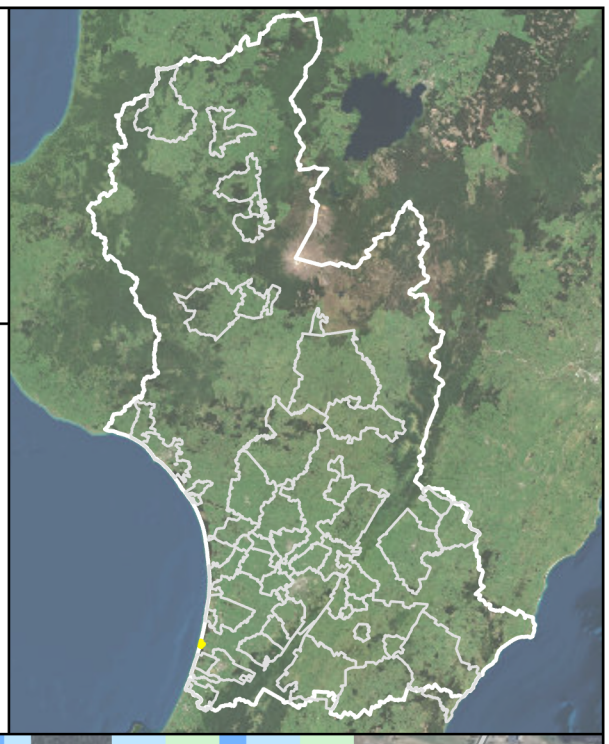
0 0.25 0.5 Km

Legend

- Community Boundary

Flood Depth (m)

- 0.05 - 0.20
- 0.2 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.5
- 2.5 - 3.5
- >3.5





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Prepared On

01/07/2025

Horizons Region Flood Vulnerability Assessment

Flood scenario: 2% annual exceedance probability, flood defences down, 0 degrees warming due to climate change, sea level rise excluded

Community
Waitārere Beach,
Horowhenua District

Scale 1:9,000 at A3

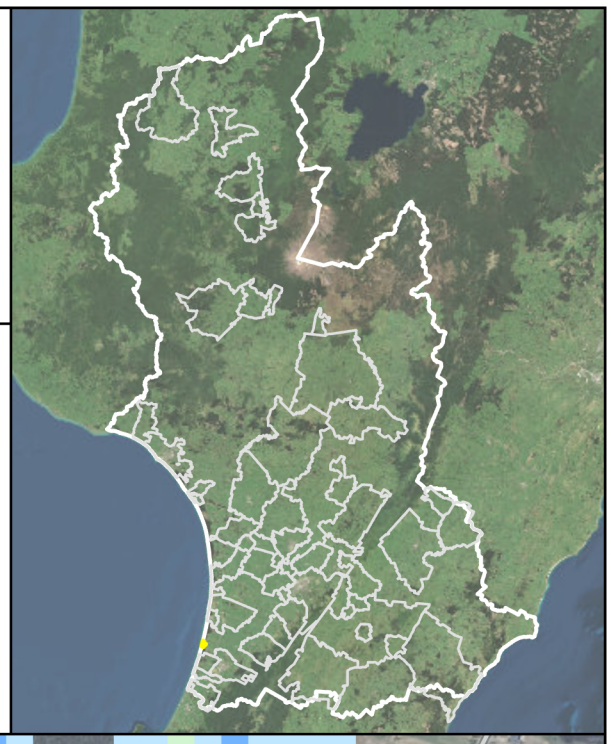
0 0.25 0.5 Km

Legend

- Community Boundary

Flood Depth (m)

- 0.05 - 0.20
- 0.2 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.5
- 2.5 - 3.5
- >3.5





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Prepared On

01/07/2025

Horizons Region Flood Vulnerability Assessment

Flood scenario: 1% annual exceedance probability, flood defences down, 0 degrees warming due to climate change, sea level rise excluded

Community
Waitārere Beach,
Horowhenua District

Scale 1:9,000 at A3

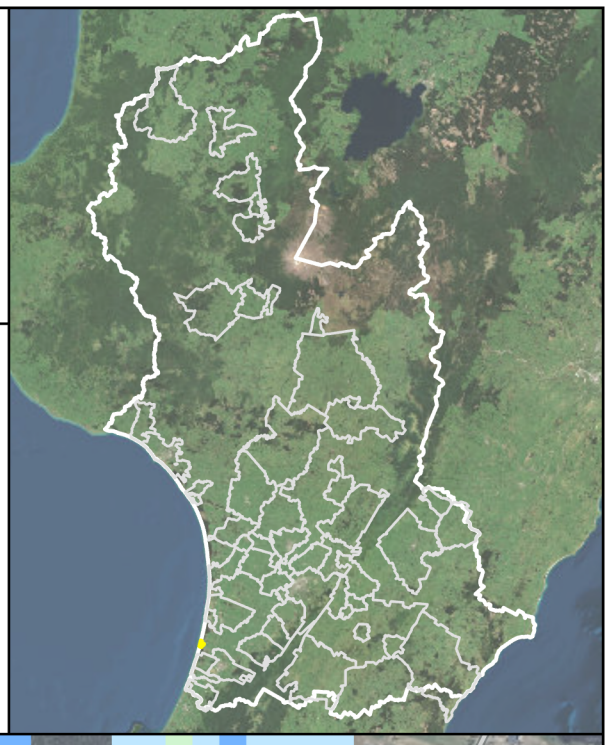
0 0.25 0.5 Km

Legend

- Community Boundary

Flood Depth (m)

- 0.05 - 0.20
- 0.2 - 0.5
- 0.5 - 1.0
- 1.0 - 1.5
- 1.5 - 2.5
- 2.5 - 3.5
- >3.5





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Prepared On

01/07/2025

Horizons Region Flood Vulnerability Assessment

Flood scenario: 0.5% annual exceedance probability, flood defences down, 0 degrees warming due to climate change, sea level rise excluded

Community
Waitārere Beach,
Horowhenua District

Scale 1:9,000 at A3

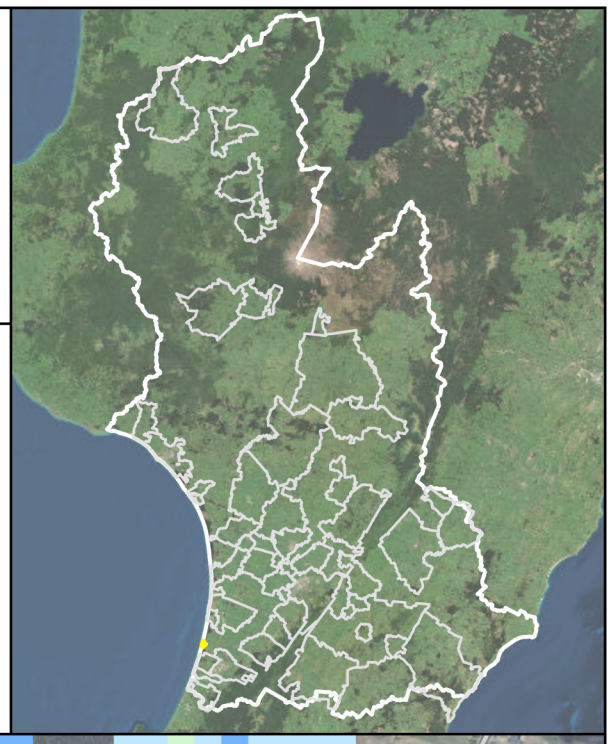
0 0.25 0.5 Km

Legend

- Community Boundary

Flood Depth (m)

- 0.05 - 0.20
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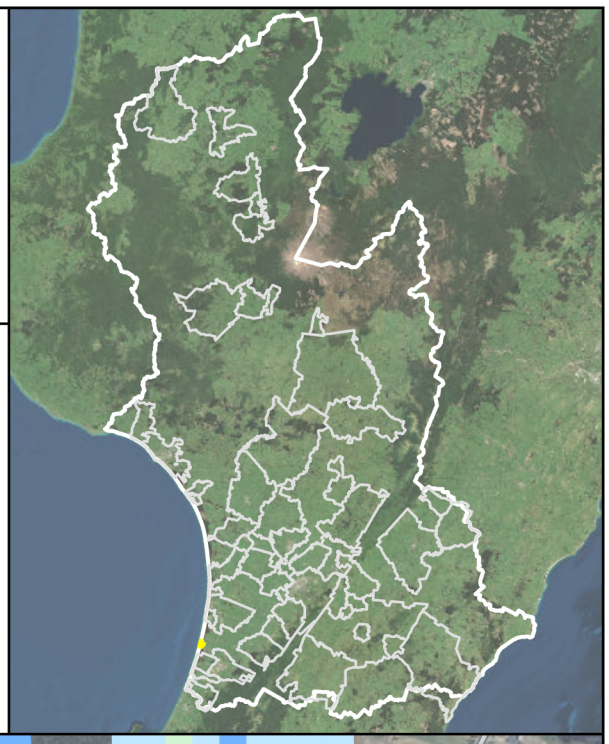
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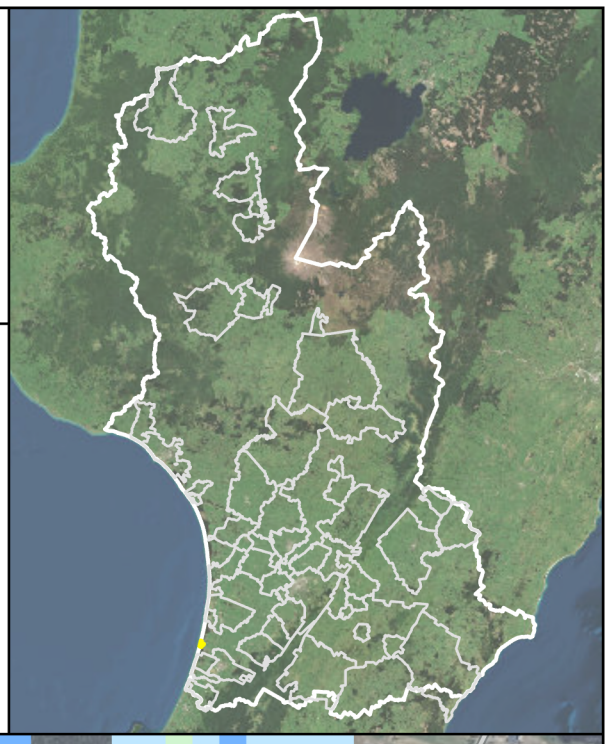
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