



If calling, please ask for Democratic Services

Wairarapa Committee

Tuesday 25 March 2025, 10.00am

Committee Room, Greater Wellington Regional Council
34 Chapel St, Masterton

Quorum: *four members, including two regional councillors*

Members

Adrienne Staples, Councillor (Chair)	Greater Wellington Regional Council
Gary Caffell, Mayor	Masterton District Council
Martin Connelly, Mayor	South Wairarapa District Council
Penny Gaylor, Councillor	Greater Wellington Regional Council
Hon. Ron Mark, Mayor	Carterton District Council
Daran Ponter, Councillor	Greater Wellington Regional Council
Amber Craig	Rangitāne ō Wairarapa

Recommendations in reports are not to be construed as Council policy until adopted by Council

Wairarapa Committee

1 Purpose

Consider areas and matters of strategic importance to the Wairarapa, and recommend to Council on these matters.

2 Specific responsibilities

2.1 Apply Council's Te Tiriti o Waitangi principles when conducting the Committee's business and making decisions.

2.2 The areas to consider and recommend on to Council include, but are not limited to:

- a Flood protection
- b Land management
- c Biosecurity
- d Biodiversity
- e Climate
- f Public transport
- g Natural resource management
- h Broader areas of common interest to the territorial authorities and Council.

2.3 Consider potential arrangements for a catchment-based governance approach for the Wairarapa, and recommend to Council, as appropriate.

3 Members

3.1 The Councillor elected by the Wairarapa constituency.

3.2 Two other Councillors, appointed by Council.

3.3 Three other members, appointed by Council as follows:

- a The Mayor of Carterton District Council
- b The Mayor of Masterton District Council
- c The Mayor of South Wairarapa District Council.

3.4 Two other members, appointed by Council for each person's skills, attributes or knowledge that will assist the work of the Committee, being:

- a One member, nominated by Ngāti Kahungunu ki Wairarapa
- b One member, nominated by Rangitāne ō Wairarapa.

4 Alternate members

- 4.1 For the members in sections 3.1 and 3.2, Council may nominate a pool of up to three alternate Councillors for appointment by Council. If one of those members is unable to attend a meeting any person from this pool may sit at the table, speak and vote in their place.
- 4.2 Each territorial authority in section 3.3 may nominate an alternate elected member for appointment by Council. If an appointed member is unable to attend a meeting their alternate member may sit at the table, speak and vote in their place.
- 4.3 Each iwi authority in section 3.4 may nominate an alternate member for appointment by Council. If an appointed member is unable to attend a meeting their alternate member may sit at the table, speak and vote in their place.

5 Quorum

Four members, including two Councillors.

6 Voting entitlement

- 6.1 All members have equal speaking and voting rights.
- 6.2 Council's Standing Orders apply to the Committee; except that the Chair, in the case of an equality of votes, does not have a casting vote (and therefore the motion is defeated, and the status quo is preserved).

7 Servicing

The Committee is serviced by Greater Wellington.

8 Committee consideration

- 8.1 Matters of strategic importance to the Wairarapa constituency shall first be referred (including during the development of proposed Greater Wellington plans and policies) to the Wairarapa Committee or its members for their consideration.
- 8.2 Proposals developed by Wairarapa-focused advisory bodies formally established by Council shall be considered by the Committee for direct recommendation to Council for decision.

9 Council's decisions on the Committee's recommendations

- 9.1 Council's decisions on the Committee's recommendations are reported to the Committee.
- 9.2 Where Council makes any decision that is materially different from the Committee's recommendation, Council's report to the Committee will set out the reason(s) for that decision.

10 Remuneration and expenses

10.1 The expenses of the elected members shall be met by the council they represent.

10.2 Non-elected members (who are not otherwise being remunerated) may claim Greater Wellington's standard daily meeting attendance allowances and expenses.

11 Meeting frequency

The Committee shall meet six times each year, with additional meetings as required.

Wairarapa Committee

Tuesday 25 March 2025, 10.00am

Committee Room, Greater Wellington Regional Council
34 Chapel Street, Masterton

Public Business

No.	Item	Report	Page
1.	Apologies		
2.	Conflict of interest declarations		
3.	Public participation		
4.	Confirmation of the Public Minutes of the Wairarapa Committee meeting on 29 October 2024	24.589	6
5.	Improving Wairarapa Committee Connections	25.105	9
6.	Public Transport Update – March 2025	25.96	20
7.	Wairarapa Flood Risk Management Update – March 2025	25.89	36
8.	Waipoua River Urban Reach Flood Risk Management Options	25.110	48



Please note these minutes remain unconfirmed until the Committee meeting on 25 March 2025.

Report 24.589

Public minutes of the Wairarapa Committee meeting on 29 October 2024

Committee Room, Greater Wellington Regional Council
34 Chapel Street, Masterton at 10.14am

Members Present

Councillor Staples (Chair)	Greater Wellington Regional Council
Mayor Caffell	Masterton District Council
Councillor Ponter	Greater Wellington Regional Council
Deputy Mayor Sadler-Futter	South Wairarapa District Council

Councillor Ponter and Deputy Mayor Sadler-Futter participated at this meeting remotely via Microsoft Teams and counted for the purpose of quorum in accordance with clause 25A of Schedule 7 to the Local Government Act 2002.

Deputy Mayor Cretney from Carterton District Council and Horipo Rimene from Rangitāne ō Wairarapa attended on behalf of their organisations as observers.

Karakia timatanga

The Committee Chair opened the meeting with a karakia timatanga.

Public Business

1 Apologies

Moved: Mayor Caffell / Deputy Mayor Sadler-Futter

That the Committee accepts the apologies for absence from Amber Craig, Hon. Mayor Mark and Mayor Connelly.

The motion was **carried**.

2 Declarations of conflicts of interest

There were no declarations of conflicts of interest.

3 Public participation

There was no public participation.

4 Confirmation of the Public minutes of the Wairarapa Committee meeting of 6 August 2024 – Report 24.417

Moved: Mayor Caffell / Cr Ponter

That the Committee confirms the Public minutes of the Wairarapa Committee meeting of 6 August 2024 – Report 24.417.

The motion was **carried**.

5 Wairarapa Flood Risk Management Update – October 2024 – Report 24.586 [For Information]

Hamish Fenwick, Team Leader Flood Operations Delivery, and Andy Brown, Knowledge Risk Management and Resilience Lead, spoke to the report.

6 Regional Policy Statement Change 1 Update – Report 24.583 [For Information]

Pam Guest, Senior Policy Advisor, Remo Bangi, Senior Policy Advisor, Iain Dawe, Senior Policy Advisor Hazards, Sam O'Brien, Policy Advisor, spoke to the report.

7 Wairarapa Water Resilience Work Programme – Report 24.529 [For Information]

Jennie Marks, Programme Director, Wairarapa Water Resilience Strategy, spoke to the report.

8 Whaitua Update – Report 24.524 [For Information]

Tash Styles, Catchment Manager – Wairarapa Coast, and Pete Huggins, Catchment Manager – Ruamāhanga, spoke to the report.

9 Regional Predator Control Programme Review (RCPC) – Report 24.445 [For Information]

Henk Louw, Principal Advisor Ecosystems, spoke to the report.

10 Public Transport Update – Report 24.584 [For Information]

Samantha Gain, Group Manager Metlink, and David Mawson, Manager Rail Network Delivery, spoke to the report.

Karakia whakamutunga

The Committee Chair closed the meeting with a karakia whakamutunga.

The public meeting closed at 11.33am

Councillor A Staples

Chair

Date:

Wairarapa Committee
25 March 2025
Report 25.105



For Decision

IMPROVING WAIRARAPA COMMITTEE CONNECTIONS

Te take mō te pūrongo

Purpose

1. To advise the Wairarapa Committee (the Committee) of options for the role and future focus of the Committee.

He tūtohu

Recommendations

That the Committee:

- 1 **Notes** the purpose and intention of improving engagement, organisation and planning of the committee's business is to fulfil its strategic purpose.
- 2 **Notes** that a number of other governance forums exist with potential overlap to the work of the committee.
- 3 **Agrees** that officers will develop a cohesive and strategic forward work programme, considering the list provided in this report, for consideration by the Committee.
- 4 **Requests** that Greater Wellington officers investigate coordinating the Wairarapa Committee meetings with the Combined Council Forum and other relevant governance meetings.
- 5 **Notes** that the Wairarapa Moana Statutory Board has developed an interim position statement and is asking relevant agencies to engage with it on an ongoing basis to form enduring rangatira-ki-te-rangatira relationship.

Te tāhū kōrero

Background

History of the Wairarapa Committee

2. From its constitution in 1989 Greater Wellington Regional Council (the Council) established, and maintained in subsequent trienniums, a Wairarapa Committee through to the end of the 2004-2007 triennium.
3. On 5 April 2017 (Report 17.41 – Establishment of the Wairarapa Committee) the Council resolved to establish a new Wairarapa Committee. This decision gave effect to a recommendation in the Local Government Commission's draft reorganisation proposal for the amalgamation of the three Wairarapa territorial

authorities that the Council should consider the establishment of a Wairarapa Committee to enable it to work more closely with any new Wairarapa territorial authority. The Commission's final reorganisation proposal was rejected in December 2017 through a poll of electors.

4. The Wairarapa Committee met for the first time on 3 August 2017. Since then, the Council has established and maintained a Wairarapa Committee in each triennium.

The Committee in the context of regional governance arrangements

5. The Wairarapa Committee also sits within a broader regional governance framework that involves the Council, together with the three Wairarapa territorial authorities, through:
 - The Regional Transport Committee – the Committee exercises statutory functions under the Land Transport Management Act 2003.
 - The Wellington Regional Leadership Committee – the Committee has responsibility for key matters of regional importance (e.g. Wellington Regional Growth Framework, regional economic development, regional economic recovery, and the Future Development Strategy), and has mana whenua representation.
 - The Wellington Regional Civil Defence Emergency Management Group – the Committee exercises statutory functions under the Civil Defence Emergency Management Act 2002 and has mana whenua representation.
6. In addition, the Council and South Wairarapa District Council are shareholders in Wellington Water Limited, and are represented, together with mana whenua, on the Wellington Water Committee.

Recent discussion on improvements to the Committee

7. All parties to the Committee have an interest in efficient and coordinated governance forums that deliver benefits to the communities of the Wairarapa.
8. The Committee held a workshop in October 2024 to discuss the operation of the Committee and possible future directions. Notes of this workshop are included as [Attachment 1](#).
9. The workshop discussed the current duplication of different meetings and forums, the complexity of overlapping roles and interests, and the appropriate levels of representation needed for different topics and items.
10. The workshop discussed the unique role of the Committee compared to other forums and came up with suggestions for how to uphold its role as a strategic decision-making forum with a wide remit for the Wairarapa.
11. Since the workshop, officers from the four Wairarapa councils (South Wairarapa, Carterton and Masterton District Councils, and Greater Wellington Regional Council) have discussed options for next steps.
12. Key governance forums in the Wairarapa that involve the same councils and mana whenua as the Wairarapa Committee include:

- The Combined Council Forum
 - The Wairarapa Economic Development Strategy (WEDS) Forum
 - The Wairarapa Water Resilience Strategy governance committee.
13. Under Te Rohe o Rongokako Joint Redress Act, the Wairarapa Moana Statutory Board (Board) will also play a governance role in natural resource management in the Ruamāhanga Catchment.
 14. Not all Wairarapa councils are represented on the Board. However, a sub-committee, the Natural Resources Committee, will, in future, include representatives from all Wairarapa councils. The Natural Resources Committee is a sub-committee of the Statutory Board and may not be viewed as a governance forum.
 15. The Board has recently approved an interim position paper stating its direction and vision, pending development of its Natural Resources Document and outlines expectations around how agencies and interested parties interact with the board.

The Wairarapa Committee purpose

16. The Committee’s purpose is to “consider areas and matters of strategic importance to the Wairarapa, and recommend to Council on these matters.”
17. The Committee plays an important role in the Regional Council’s decision making relating to the Wairarapa. The Committee’s Terms of Reference state explicitly at clause 8.1 that:

“Matters of strategic importance to the Wairarapa constituency shall first be referred (including during the development of proposed Greater Wellington plans and policies) to the Wairarapa Committee or its members for their consideration.”
18. The Terms of Reference does not stipulate what the “matters of strategic importance to the Wairarapa constituency” might be. However, the wording suggests a reasonably high level of engagement, prior to key decisions being made. We can be confident that this includes Long-Term Planning and development of the Regional Policy Statement and Natural Resources Plan as well as the Regional Public Transport Plan and other significant documents.
19. The Committee also has advisory bodies devoted to community engagement and oversight of floodplain management plans:
 - Upper Ruamāhanga River Management Advisory Committee
 - Waiōhine River Plan Advisory Committee
 - Lower Ruamahanga Valley Floodplain Management Advisory Committee.
20. The Committee plays a role in receiving and noting the endorsement of advisory committees in relation to floodplain management work as a part of the annual and long-term planning cycles. The Committee serves as a point of escalation for this work on its way to Council.

Wairarapa Combined Council Forum purpose

21. The Wairarapa Combined Councils Forum is a body for the four Wairarapa councils to come together. Originally supporting the three territorial authorities, Greater Wellington has been included in the forum over the past several years and iwi settlement trusts are now included.
22. The forum is held four times a year and each council takes a turn hosting. It is not a council body set up under the Local Government Act 2002. All councillors are invited. Senior staff are in attendance depending on the items on the agenda.
23. The agenda is developed through a process of the host council inviting other councils to contribute agenda items. Often these relate to topical issues of the day or updates on ongoing work programmes.
24. Without a Terms of Reference or decision-making responsibility, the forum is a flexible and inclusive space for Wairarapa elected representatives.

Wairarapa Economic Development Strategy (WEDS) Forum purpose

25. This forum provides oversight and direction on the implementation of the WEDS and its associated action plan.
26. The WEDS Forum has delegated authority to make joint-funding decisions based on already agreed contributions from the partners across three economic enablers:
 - Employment
 - Food and Fibre
 - Water.
27. WEDS is formulated under a Memorandum of Understanding between the three Wairarapa territorial authorities and WellingtonNZ.

Wairarapa Water Resilience Strategy (WWRS) governance committee purpose

28. This WWRS committee was re-formed in 2023 to make progress on implementation of the resilience strategy to address water supply and demand challenges faced by the Wairarapa into the future.
29. The WWRS committee supports a united approach bringing the roles, powers and responsibilities of all parties to bear on this long-term challenge for the region. The committee also serves as a single interface to other parties, including the Crown, looking to support water resilience in the Wairarapa. The WWRS committee has a procedure for referring decisions back to the appointing councils when resource commitments or other decisions need to be made.
30. A 2024/25 work programme has been approved by governance members that sees collaboration and joint working between councils on the five workstream areas under the strategy: Natural Attenuation, Water Capture, Water Allocation, Land Use Adaption and Water use Efficiency.

Te tātaritanga

Analysis

31. The Committee has discussed how the value and impact of the Committee could be enhanced by identifying strategic items earlier in the cycle so discussion can influence and inform direction.
32. This could include a clearer forward work programme created together by representatives of the Committee members. Topics for the forward work programme raised in the workshop in October 2024 are a potential starting point for this:
 - a Public transport, including passenger rail
 - b Aggregate supply
 - c Flood maps
 - d Flood incident response
 - e Aquifer interest
 - f Forestry
 - g Climate change (with Wairarapa focus)
 - h Stock exclusion
 - i Coastal retreat and infrastructure resilience
 - j Pest control.
33. We recommend that the Committee endorses this list and nominates officers from councils and mana whenua to do more work and support a forward work programme design. This work can be led by Greater Wellington's Catchment team.

Coordination with other governance forums

34. We recommend that the Wairarapa Committee explores how it will work with the Wairarapa Moana Statutory Board position statements and look for an opportunity to create a relationship. The Board will play a role in the future of resource management in the Ruamāhanga catchment that will influence council plans and activities.
35. We recommend that Greater Wellington be tasked with a review of Committee scheduling. The Combined Council Forum and the Committee could coordinate better. There may be administrative and logistical value in aligning the Wairarapa Committee meeting schedule to follow on from Combined Council meetings where this is feasible.
36. The Committee may also like to endorse an approach whereby general updates and matters for information on Greater Wellington's work could be shared more widely at the Combined Council Forum instead of the Committee. This would mean the Wairarapa Committee is kept primarily for strategic items and items where members can have clear input into recommendations to Greater Wellington Regional Council.

37. The Committee might want to receive and discuss strategic issues or recommendations relating to water resilience, for example, for endorsement and reference up to full council at Greater Wellington. This relationship to the water resilience committee and its work might benefit from better definition.

Relationship with advisory committees

38. The importance of floodplain management decisions to the Wairarapa community is evidenced by the high degree of scrutiny and proactive engagement that Greater Wellington receives on the topic. Advisory committees provide a useful way to devolve engagement on specific works to the communities most directly affected.
39. The Committee may want to change its involvement in reviewing or receiving reports on floodplain management work in a way that delivers a more strategic outcome. This would require further direction to, consideration and discussion by officers.

Triennium period considerations

40. The Committee has two further meetings this triennium (June and September) before its cessation at the end of the triennium in accordance with the Local Government Act 2002.
41. It will be a matter for the newly elected Council to determine whether a Wairarapa Committee (or similar) should be established for the 2025-2028 triennium, and to set any Committee's terms of reference.
42. The consideration of this report by the Committee can contribute to any recommendations on the potential future Greater Wellington governance arrangements or connections in respect of the Wairarapa, for consideration by the incoming Council.

Ngā hua ahumoni

Financial implications

43. There are no major financial implications of the recommendations in this report.
44. If committee meetings are aligned with other existing appointments, there may be marginal savings in time and travel cost for participants.

Ngā Take e hāngai ana te iwi Māori

Implications for Māori

45. Governance engagement from mana whenua representatives is key to achieving sustainable outcomes and shared outcomes that benefit the Wairarapa community.
46. Successful implementation of Treaty settlements in the Wairarapa will require good coordination and understanding between governance forums.

Te huritao ki te huringa o te āhuarangi

Consideration of climate change

47. Successful activity to mitigate and adapt to a changing climate will require concerted effort from the whole community over the medium to longer-term.
48. Ensuring coherent governance for the Wairarapa, which engages with the long-term strategic issues, is key to supporting climate resilience and the best possible outcomes under changing environmental conditions.

Ngā tikanga whakatau

Decision-making process

49. The matters requiring decision in this report were considered by officers against the decision-making requirements of Part 6 of the Local Government Act 2002.

Te hiranga

Significance

50. Officers considered the significance (as defined by Part 6 of the Local Government Act 2001) of the matters for decision, taking into account Council's *Significance and Engagement Policy* and Greater Wellington's *Decision-making Guidelines*. Officers consider that these matters are of low significance due to their administrative nature.

Te whakatūtakitaki

Engagement

51. Officers from Masterton, Carterton and South Wairarapa District Councils have had the opportunity to have input to the development of this paper.
52. The Committee has discussed opportunities to have the right staff in support of discussion items, supporting members, as well as providing papers with executive summaries to aide with complex, long papers.

Ngā tūāoma e whai ake nei

Next steps

53. Next steps depend on the decisions made by the Committee as an outcome of this report. Any decisions made will be carried out and implemented where possible.

Ngā āpitihanga

Attachments

Number	Title
1	Wairarapa Committee File Note 29 October 2024

Ngā kaiwaitohu

Signatories

Writer	Pete Huggins – Ruamāhanga Catchment Manager
Approvers	Nicola Patrick - Director Catchment Lian Butcher - Group Manager, Environment

<p style="text-align: center;">He whakarāpopoto i ngā huritaonga Summary of considerations</p>
<p><i>Fit with Council’s roles or with Committee’s terms of reference</i></p> <p>This report is about upholding the strategic nature of the committee.</p>
<p><i>Contribution to Annual Plan / Long Term Plan / Other key strategies and policies</i></p> <p>This report supports our work on enhancing relationships between councils and with mana whenua by seeking to agree strategic issues of joint interest and how Greater Wellington can ensure good practice in engagement on key decisions.</p>
<p><i>Internal consultation</i></p> <p>This report has been reviewed by Te Hunga Whiriwhiri, Metlink and Democratic Services.</p>
<p><i>Risks and impacts - legal / health and safety etc.</i></p> <p>There are no known risks.</p>

Wairarapa Committee
29 October 2024



WAIRARAPA COMMITTEE WORKSHOP FILE NOTE

Members present at start of workshop Cr Staples, Cr Ponter

Absent Mayor Mark, Mayor Connelly, Cr Gaylor, Amber Craig

Other attendees Nigel Corry, Lian Butcher, Nicola Patrick, Sallyann Smutek, Francis Ryan, David Mawson, Tash Styles, Jacky Cox, Amanda Cox, Fathima Iftikar, Jack Mace, Renée Coffey, Elizabeth Woolcott, Kym Fell, Janice Smith, Geoff Hamilton

Item 1 – Wairarapa Committee forward planning

Members present at beginning of item	Cr Adrienne Staples, Cr Daran Ponter
Presenting officer/s	Nicola Patrick
Supporting information	There was no supporting information.
Purpose of item	<p>To enhance the Wairarapa Committee engagement and effectiveness through forward planning.</p> <p>To make this a more meaningful meeting, supported by relevant information and using the time given by representatives in an efficient way.</p> <p>Ensuring that the appropriate representatives from GW and local territorial authorities are present.</p>
Discussion points	<p>Discussion points included:</p> <ul style="list-style-type: none"> • Making the Wairarapa Committee meeting function better. • From a GW perspective this is an important committee for Wairarapa councils. Sometimes it works well, but there is room for improvement. • Some reports are highly technical and time consuming for CEs and mayors to read - suggested that some reports could have strategy and policy representatives from local TAs attending on behalf of CEs and mayors.

Attachment 1 to Report 25.105

	<ul style="list-style-type: none"> • Reports are comprehensive and give a good idea of what GW are doing. Councils like the idea of having more influence earlier. • Attending a formal meeting is a way of putting information in front of the public eye but is not necessarily effective. What other ways can information be shared? • Could look at a more succinct cover report. Summary of content/executive summary/overview. Could adapt this to make it work for the committee. There is an opportunity to make sure that we make it relevant to the Wairarapa. • We have previously discussed collapsing the committee into the Wairarapa Combined Council Forum. However, we agreed that was not our preference. However, more information-related items may be useful at the forum and not to the committee. • How do we enhance it as an influencing committee? How often would it meet if more aligned with direction rather than info items? • The Wairarapa Committee was supposed to be a conduit to help with the relationship between TAs and GW and there is still value in that. It is important for public perception and cements relationships. • GW and TAs could co-design the agenda to make effective. • There may be value in timing discussions before annual plan consultation goes out. • Suggestion to align the Wairarapa Committee and Wairarapa Combined Council Forum meeting timings to support attendance.
<p>ACTIONS</p>	<p>Think about future information; where it should go; help to build a FWP. Some potential topics were:</p> <ul style="list-style-type: none"> • Trains • Aggregate supply • Flood maps • Flood incident response • Aquifer interest • Forestry • Climate change (with Wairarapa focus) • Stock exclusion • Coastal retreat and road resilience • Pest control <p>Follow-up from Nicola Patrick – what might that look like; is this going to flow into changes to the Terms of Reference?</p> <p>Nicola to look at the future meeting dates and agendas, possibly deferring the next meeting.</p>

Wairarapa Committee
25 March 2025
Report 25.96



For Information

PUBLIC TRANSPORT UPDATE - MARCH 2025

Te take mō te pūrongo

Purpose

1. To inform the Wairarapa Committee (the Committee) of Metlink activities and performance relating to public transport in the Wairarapa.

Te tātaritanga

Analysis

2. The paragraphs below provide an update on Metlink activities in the Wairarapa.

Wairarapa Line closure – Remutaka Track Renewal - completed

3. The Wairarapa Line was closed between Upper Hutt and Masterton to enable essential engineering works from 26 December 2024 to 10 February 2025; Buses Replacing Train services (BRT) were used on the Wairarapa Line during this period.
4. During the Wairarapa Line closure, KiwiRail replaced track, first laid in 1955, in the 8.8km Remutaka Tunnel, while several level crossings between Featherston and Masterton were also upgraded.
5. Currently, KiwiRail has a temporary speed restriction within the Remutaka Tunnel (60kph), which will be removed once KiwiRail Engineering is satisfied with the commissioning of the track replacement work.
6. A video of the work undertaken on the Remutaka Tunnel will be shown to the Committee at this meeting.

Signalling project between Masterton and Featherston

7. As part of the Regional Rail Upgrade Project, KiwiRail has commenced a signalling project between Masterton and Featherston – this involves new signal and communication cables, new passing loops, new signals and level crossing upgrades.

Rail replacement services due to rail network upgrades

8. Over the next ten years KiwiRail is planning to deliver a large volume of overdue rail infrastructure maintenance and renewals to address a significant backlog of work on the rail network (this is on top of regular BAU maintenance).
9. Metlink continues to focus on contingency planning for the disruptions to service that will be caused by this necessary work.

10. Note that the length and/or frequency of line closures have been compounded by the allocation in Budget 2024 of \$107.7 million to KiwiRail to be spent in the 2024/25 financial year to cover a backlog of network renewals in both Wellington and Auckland.
11. BRT will continue to be necessary to enable the rail network upgrades to take place. Metlink has developed a BRT improvement action plan, which is set out in [Attachment 1](#).

Wairarapa Line summer 24/25 Block of Line – buses replacing trains

12. As set out above, the Wairarapa Line was closed between Upper Hutt and Masterton to enable essential engineering works from 26 December 2024 to 10 February 2025; BRT services were used on the Wairarapa Line during this period.
13. Information on patronage and customer experience of the Wairarapa BRT services is included in [Attachment 1](#).
14. Metlink established a fare collection model for the Wairarapa Line during BRT as Transit coaches, which provided Wairarapa Line BRT, are not equipped with onboard Snapper equipment. This model is cost-effective and utilises the existing platform validators. Note, only two Wairarapa Line fare collection related complaints were received through Resolve (Metlink’s complaint management tool) during the summer Block of Line period

Upcoming Easter/ANZAC Block of Line and service impacts

15. Buses will replace trains, and some services will run at reduced frequencies as KiwiRail makes improvements to the rail network over the Easter and ANZAC weekends.
16. As there are only three working days between Easter Monday and ANZAC Day, as well as the school holidays, KiwiRail is using this opportunity to extend railway line closures and continued infrastructure upgrade work across all railway lines.
17. The table below provides information on upcoming Easter/ANZAC day service impacts for the Wairarapa Line – whether the timetable is weekday or weekend timetable; pink denotes buses replacing trains:

	EASTER & ANZAC 2025	WRL
Sunday	Sunday 13 Apr 2025	Weekend
Workday	Monday 14 Apr 2025	Weekday
Workday	Tuesday 15 Apr 2025	Weekday
Workday	Wednesday 16 Apr 2025	Weekday
Workday	Thursday 17 Apr 2025	Weekday
Public Holiday - Good Friday	Friday 18 Apr 2025	Weekend
Saturday	Saturday 19 Apr 2025	Weekend
Public Holiday - Easter	Sunday 20 Apr 2025	Weekend
Public Holiday - Easter Monday	Monday 21 Apr 2025	Weekend
Workday	Tuesday 22 Apr 2025	Weekend + 06:47 Mast-Wgn, 17:30 Wgn-Mast****
Workday	Wednesday 23 Apr 2025	Weekend + 06:47 Mast-Wgn, 17:30 Wgn-Mast****
Workday	Thursday 24 Apr 2025	Weekend + 06:47 Mast-Wgn, 17:30 Wgn-Mast****
Public Holiday - ANZAC Day	Friday 25 Apr 2025	Weekend
Saturday	Saturday 26 Apr 2025	Weekend
Sunday	Sunday 27 Apr 2025	Weekend
Normal	Monday 28 Apr 2025	Normal services return

**** Wairarapa services will run as a train to Upper Hutt, then a bus from Upper Hutt to Wellington from 22-24 April

Current service impacts on Wairarapa Line

18. Due to various staffing challenges, Transdev Wellington has been operating Wairarapa Line services with a limited roster of train managers.
19. Transdev Wellington is actively working to provide consistent and reliable train services between Wellington and Masterton.
20. Greater Wellington has written to Transdev requesting that they provide us with a plan to rectify the service challenges.
21. A verbal update will be provided at the meeting on 25 March 2025.

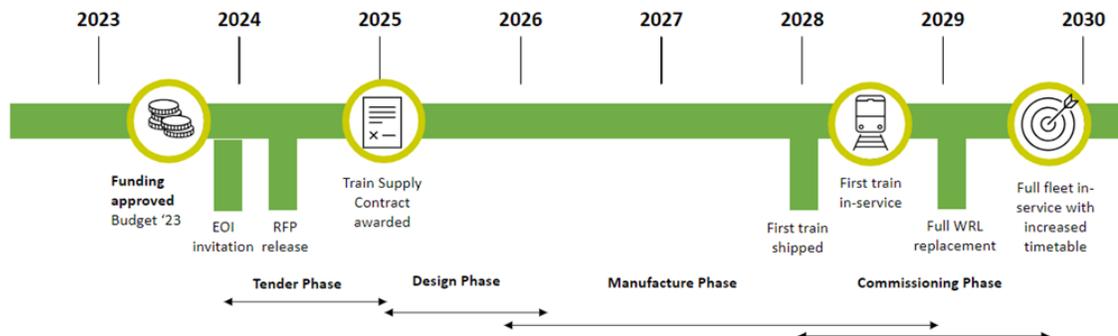
Update on activities – Rail

Lower North Island Rail Integrated Mobility

22. The 2023 Government budget included funding for the capital investment of new rolling stock and associated infrastructure to deliver improved passenger rail services on the Manawatū Line (MUL) and Wairarapa Line (MUL) based on the LNIRIM Detailed Business Case (DBC); this includes:
 - a 18 new Independently Powered Electric Multiple Unit vehicles (IPEMU Vehicles) to replace the existing carriages and locomotives currently used to deliver MUL and WRL services
 - b A new maintenance depot for the IPEMU Vehicles
 - c Station and platform upgrades
 - d Rail Network upgrades, including passing loops and stabling facilities.
23. It is expected that the new trains will double peak-time services between Palmerston North and Wellington on the Manawatū line and double them between Masterton and Wellington on the Wairarapa Line.
24. The key milestones for the procurement of the LNIRIM fleet and maintenance services include:
 - a Approval of the Procurement Strategy
 - b Expression of Interest (EOI) release
 - c Short list bidders
 - d Request for Proposals release
 - e Preferred supplier
 - f Contract award
25. A final shortlist of respondents has been confirmed to the EOI for providing a proposal to design, build and maintain 18 x four-car low emission multiple units for improving the passenger rail service, capacity and frequency on Wairarapa and Manawatū lines.
26. The shortlisted companies are:
 - a Alstom Rail Transportation New Zealand Limited
 - b Construcciones y Auxiliar de Ferrocarriles S.A. (CAF)

c Stadler Bussnang AG

27. The RFP documents were released to the Shortlisted EOI Respondents on 29 July 2024.
28. The RFP closed on 16 December 2024.
29. The target for contract award is mid-2025.
30. The following diagram sets out the indicative timeline for the Programme.



Draft Te Mahere Waka Whenua Tūmatanui o te Rohe o Pōneke Wellington Regional Public Transport Plan 2025-35

31. Consultation is currently occurring on the draft Te Mahere Waka Whenua Tūmatanui o te Rohe o Pōneke Wellington Regional Public Transport Plan (Draft RPTP).
32. The narrative of the Draft RPTP has been built around the strategic priority of “an efficient, accessible, affordable and low carbon public transport network” achieved through:
 - a Increasing the attractiveness of public transport relative to driving.
 - b Reducing public transport emissions by decarbonising the fleet.
 - c Continuing to improve passenger experience across all aspects of our network.
 - d Improving access to public transport for those with specific needs.
33. The draft RPTP includes new ‘regional focus’ sections including one for the Wairarapa which highlights the three planning focus areas:
 - a Deliver improved rail services by progressing the LNIRIM programme.
 - b Investigate longer term public transport provision to meet housing growth and travel demand in the Wairarapa.
 - c Continue with decarbonisation initiatives at Masterton rail station.
34. Public consultation of the Draft RPTP commenced on 3 March 2025 and is scheduled to finish on 28 March 2025. Previous RPTP consultations have seen proportionately small numbers of submissions from Wairarapa residents in contrast to submission volumes from Hutt Valley, Porirua and Wellington City

residents. Communications for this RPTP consultation have prioritised Greater Wellington’s digital reach to Wairarapa residents to lift engagement levels.

- 35. The draft RPTP and information on the consultation process is available online at <https://haveyoursay.gw.govt.nz/regional-public-transport-plan-2025-2035-consultation>.
- 36. Results of RPTP consultations from a Wairarapa perspective will be reported to a future meeting of the Committee following Greater Wellington Transport Committee public hearings and deliberations 6-7 May 2025.
- 37. The final RPTP will be presented to Greater Wellington Regional Council for adoption in late June 2025 and, subject to Council direction, will come into effect 20 working days after adoption.

Update on performance

- 38. A PowerPoint presentation on Wairarapa public transport performance will be presented to the Committee at this meeting. A copy is attached as **Attachment 1**. Note that rail performance information for January 2025 is not included in the presentation as services were bus replaced; December 2024 performance is included.

**Ngā āpitihanga
Attachment**

Number	Title
1	Metlink Public Transport Performance – Presentation

**Ngā kaiwaitohu
Signatories**

Writers	David Mawson – Manager Rail Network Delivery Emmet McElhatton – Manager, Policy
Approvers	Paul Tawharu – Senior Manager Operations, Metlink Hamish Burns – Senior Manager Assets and Infrastructure, Metlink (Acting) Samantha Gain – Kaiwhakahaere Matua, Waka-ā-atea Group Manager, Metlink

<p style="text-align: center;">He whakarāpopoto i ngā huritaonga Summary of considerations</p>
<p><i>Fit with Council's roles or Committee's terms of reference</i></p> <p>The purpose of the Committee is to consider areas and matters of strategic importance to the Wairarapa. This is an information report on public transport matters in the Wairarapa.</p>
<p><i>Contribution to Annual Plan / Long term Plan / Other key strategies and policies</i></p> <p>This report provides an update on the delivery of public transport activities in the Wairarapa. Delivering public transport is a key activity in the Long Term Plan.</p>
<p><i>Internal consultation</i></p> <p>No other departments were consulted in preparing this report.</p>
<p><i>Risks and impacts: legal / health and safety etc.</i></p> <p>There are no risks arising from this report.</p>

PUBLIC TRANSPORT PERFORMANCE - JANUARY

FOCUS ON WAIRARAPA

WAIRARAPA COMMITTEE

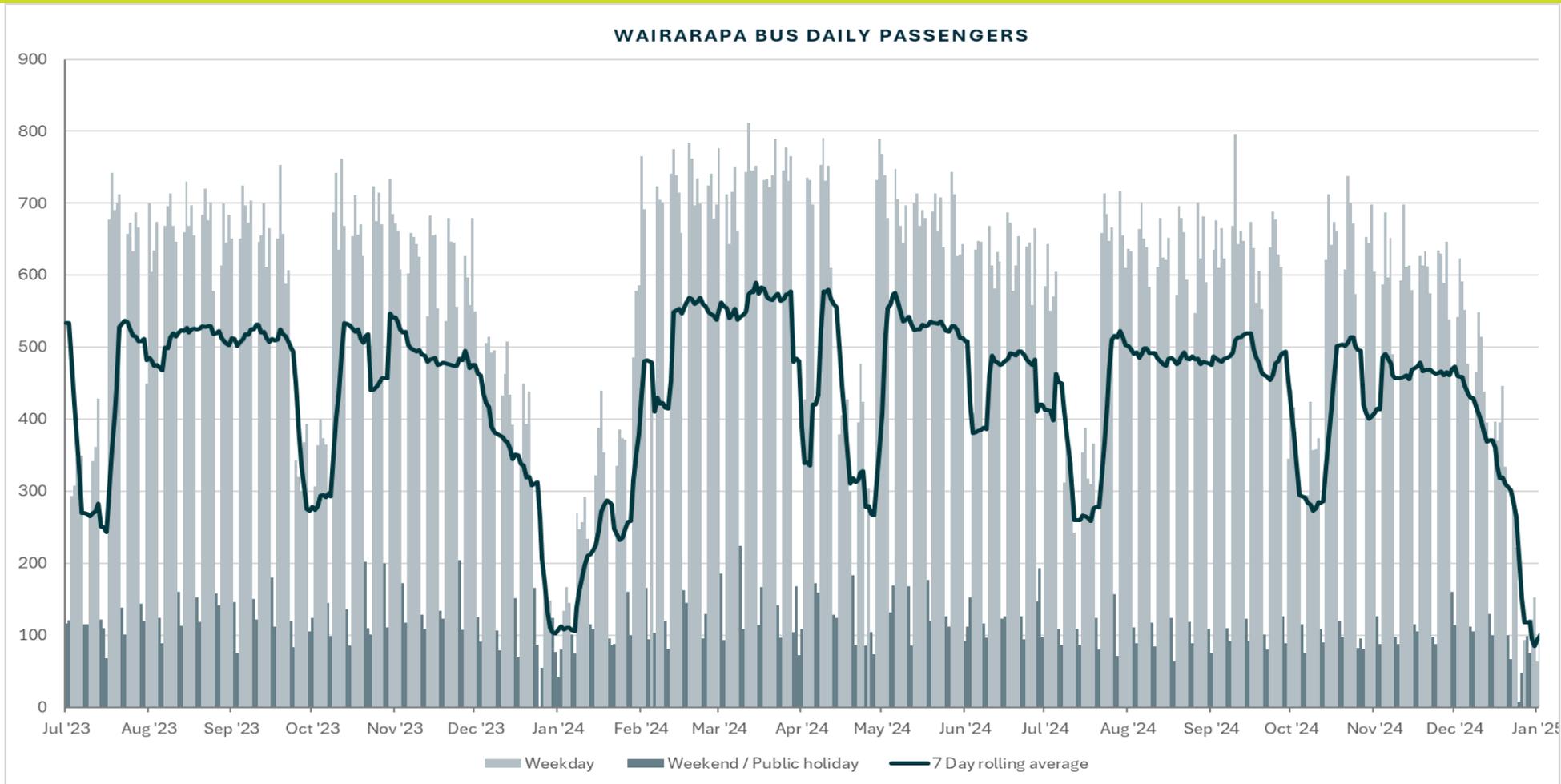
25 March 2025

Samantha Gain, Group Manager Metlink



Wairarapa bus patronage – Boardings (day)

Attachment 1 to Report 25.96

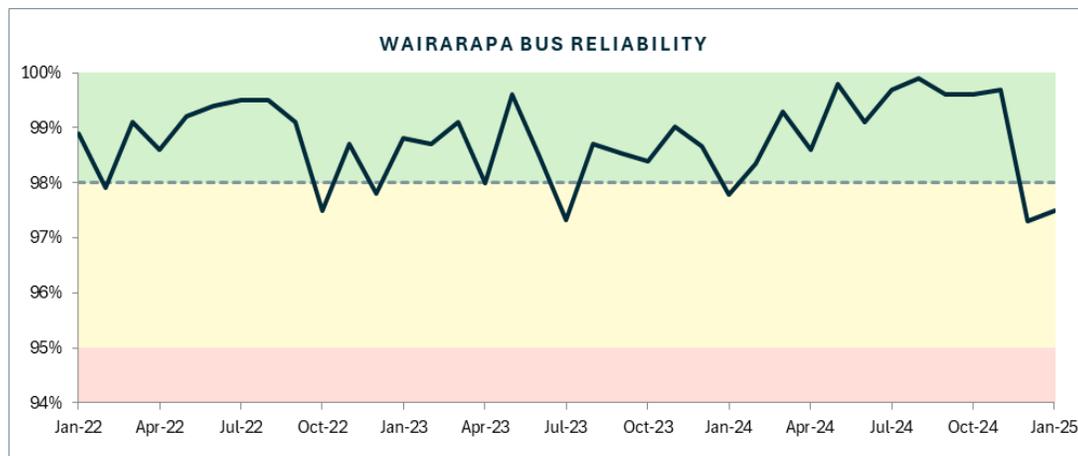


Wairarapa bus reliability & punctuality

Attachment 1 to Report 25.96

The bus reliability measure shows the percentage of scheduled services that actually ran, as tracked by Snapper systems.

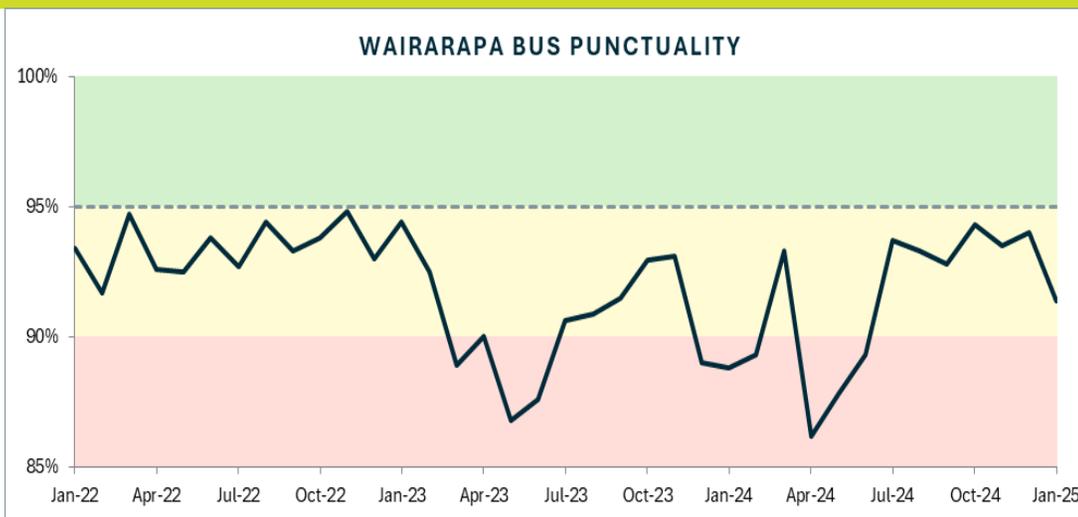
January 2025 bus reliability was **97.5%** (needs improvement), likely to reflect planned cancellation of school bus services at beginning of school term.



Bus punctuality is measured as the percentage of scheduled services that depart from origin, leaving between 1 minute early and 5 minutes late.

Punctuality is impacted by buses waiting for late arriving trains (contract KPIs not impacted in these instances).

January 2025 bus punctuality was **91.4%** (needs improvement).

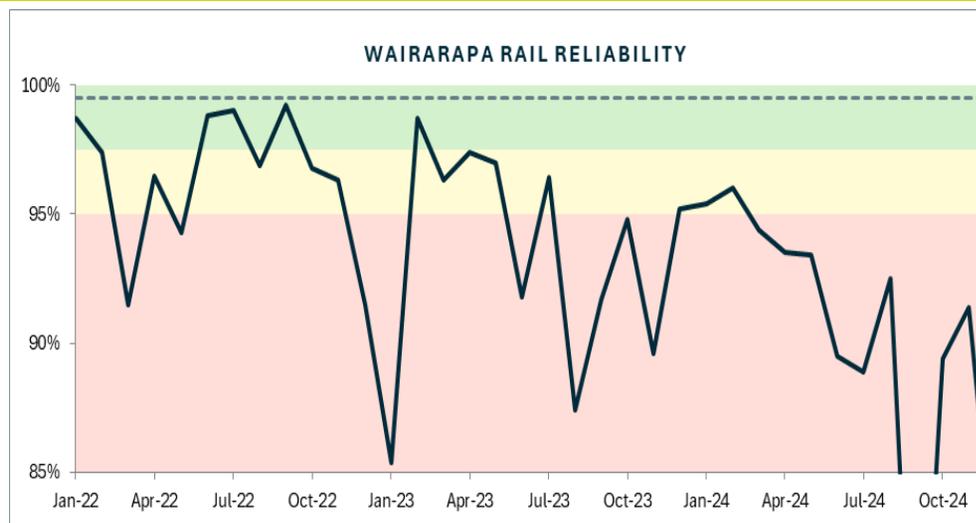


Wairarapa rail reliability & punctuality (December)

Attachment 1 to Report 25.96

The rail reliability measure shows the percentage of scheduled services that depart from the origin and key stations no earlier than 30 seconds before the scheduled time, meet the consist size for the scheduled service, and stop at all timetabled stations. It does not factor bus replacement services.

December 2024 rail reliability was **81%**. 41 services in December were impacted by staff sickness and two services were impacted by a mechanical issue



The rail punctuality measure records the percentage of services arriving at key interchange stations and final destination within five minutes of the scheduled time. It does not factor bus replacement services.

December 2024 rail punctuality was **57%**. Speed restrictions on the Wairarapa Line continue to impact punctuality

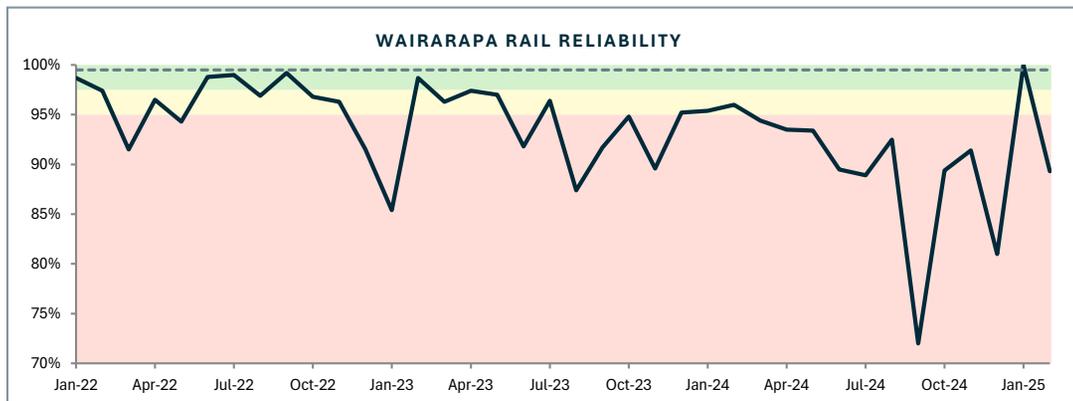


Wairarapa rail reliability & punctuality (February)

Attachment 1 to Report 25.96

The rail reliability measure shows the percentage of scheduled services that depart from the origin and key stations no earlier than 30 seconds before the scheduled time, meet the consist size for the scheduled service, and stop at all timetabled stations. It does not factor bus replacement services.

February 2025 rail reliability was **89.4%**. Note that from 10 February (resumption of rail services) rail reliability was **85.47%**



The rail punctuality measure records the percentage of services arriving at key interchange stations and final destination within five minutes of the scheduled time. It does not factor bus replacement services.

February 2025 rail punctuality was **42.1%**. Note that from 10 February (resumption of rail services) rail punctuality was **17.18%**



BRT 24/25: Patronage

Attachment 1 to Report 25.96

	Jan-25	Jan-24	% Change
Hutt Valley	275,453	279,362	-1.4%
Kapiti	247,036	285,202	-13.4%
Johnsonville	61,948	82,212	-24.6%
Wairarapa	12,500	34,829	-64.1%
Total	596,937	681,605	-12.4%

	Feb-25	Feb-24	% Change
Hutt Valley	383,596	397,896	-3.6%
Kapiti	353,108	383,957	-8.0%
Johnsonville	89,085	108,053	-17.6%
Wairarapa	38,285	49,120	-22.1%
Total	864,074	939,026	-8.0%



WRL

- Patronage on the Wairarapa Line was disproportionately lower than on other Lines
- From 6th January, there was a shift back to regular commuters. Many Wairarapa commuters extended their holidays to avoid using bus replacements.
- From 13 January, some Wairarapa commuters chose to drive to Upper Hutt, using the park-and-ride facilities to connect with the Hutt Valley Line (HVL). Others opted to work from home.

BRT 24/25: Customer experience and satisfaction Attachment 1 to Report 25.96



	Nov 24	Feb 25
Average – all customers	64.8%	56.8%↓



- A month is a **LONG** time to travel by BRT
- **Slow, increased travel time** (50%)
- **Discomfort** – low accessible bus – Featherston customers in particular feel they get an inferior service (20%)
- **Transfers Upper Hutt** – services not connecting



- **Staff service and great driver skill and advice** (50%+)
- **Coaches comfortable** – higher up, seatbelts, and good aircon

BRT Improvement Action Plan (2025 - early 2026) Attachment 1 to Report 25.96

	April - June	July - Sept	Oct - Dec	
Customer info	Platform 10/transfers experience	Improved queueing & p.a. ✓	Improved transfer planning	Implement for Summer BOL
	Improved online timetables	Improved web & app interface ✓	Integrate timetable data	Integrate timetable data
	BRT real-time tracking	Prototype location tracking ✓	Add prediction and integrate with RTI signage	Implement for Summer BOL
	BRT bus signage consistency	Implement operator protocol ✓	WTOs monitor performance ✓	
Infrastructure	Platform 10 interchange	Minimum requirements design ✓	Formalise access/ kerb upgrade	Implement interchange
	RTI displays - BRT	Requirements planning / commit funding ✓	Integrate with tracking	Pilot and implement
Operating model	Customer-centred BOL planning	Review current planning model ✓	Design BOL concepts / community engagement	Implement
	Bus route optimisation	Review routes & stops ✓	Refine routes & stops	Implement route refinements
	Consistent fare collection	Implement operator protocol ✓	WTOs monitor performance ✓	

KEY	Summer 2024/25	Through 2025	Summer 2025/26	Underway ✓
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Remutaka Tunnel works

Attachment 1 to Report 25.96

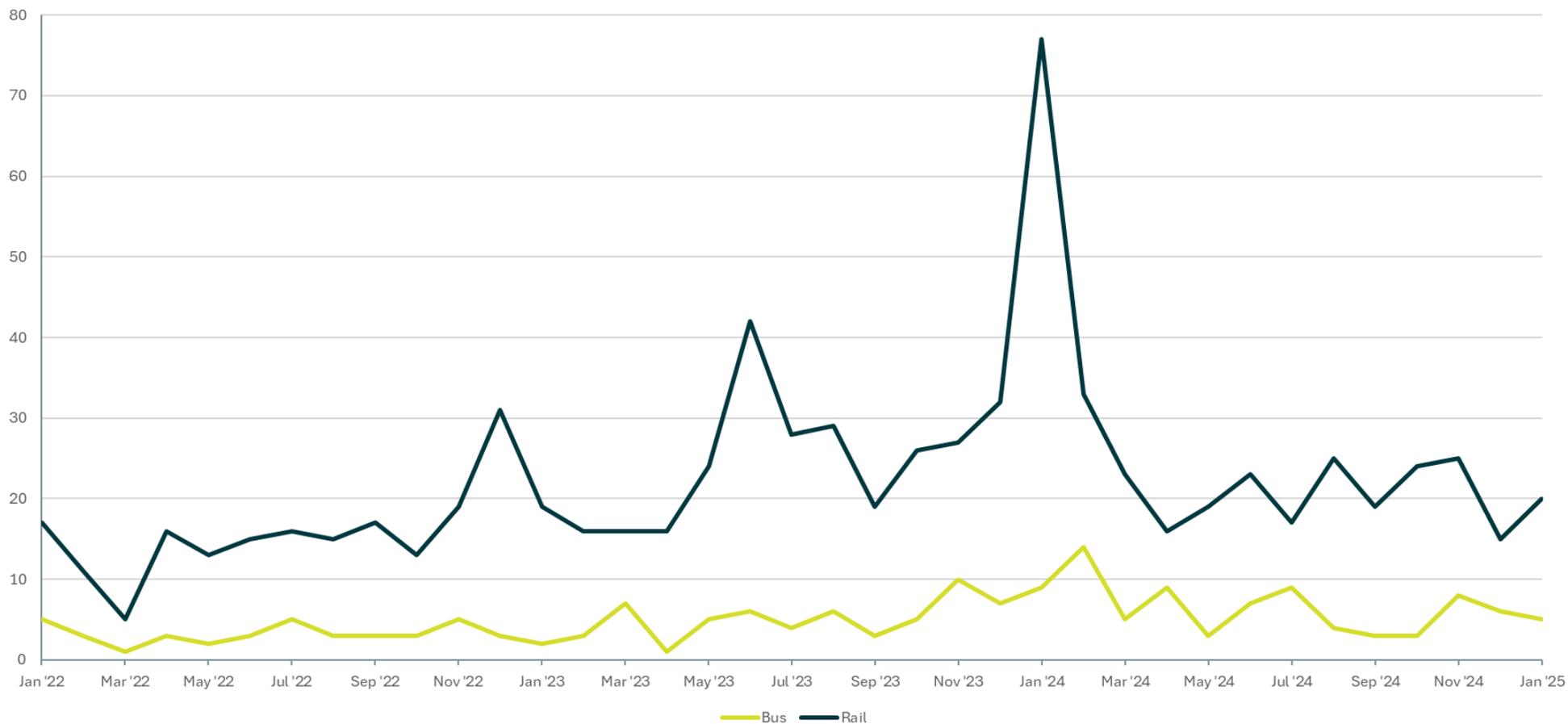


The Remutaka Tunnel as you've never seen it before: <https://youtu.be/4Ao2ijjHTBc>

Wairarapa Complaints

Attachment 1 to Report 25.96

WAIRARAPA RAIL AND BUS COMPLAINTS



Wairarapa Committee
25 March 2025
Report 25.89



For Information

WAIRARAPA FLOOD RISK MANAGEMENT UPDATE - MARCH 2025

Te take mō te pūrongo

Purpose

1. To update the Wairarapa Committee (the Committee) on:
 - a. Funding received from the Department of Prime Minister and Cabinet's Cyclone Recovery Unit
 - b. The ongoing operational maintenance of the Wairarapa Rivers schemes
 - c. The progress on the Flood Resilience – Tranche 1 programme (formerly known as Before the Deluge 2.0)
 - d. The progress of investigations into future projects.

Te tātaritanga

Analysis

2. This section provides an update on the Flood Protection works in the Wairarapa since the last Wairarapa Committee meeting.

Government Funding – Department of Prime Minister and Cabinet

Crack Willow Block Removal Project

3. As stated in the Wairarapa Flood Risk Management Update report (Report 24.361), we successfully obtained \$3.5 million from the Department of Prime Minister and Cabinet (DPMC) from the Recovery and Flooding Resilience fund for the crack willow blockage removal in the eastern rivers in the Wairarapa. This decision was publicly announced on 6 October 2023. Our contribution is \$250,000 worth of project management time.
4. Phase 1 of the project has been completed with a focus on the Kopuaranga and the Whareama Rivers.
5. Phase 2 of the project continues. Up until 1 March 2025 we have removed a total of 726 blockages and cleared approximately 113km of river channel. To date we have spent a total of \$2,700,000.



Figure 1: Tauweru River – Large blockage within the lower reach (pre-blockage removal)



Figure 1: Tauweru River – Large blockage within the lower reach (post blockage removal)

6. The funding for the project ceases at the end of the financial year 2024/25. We are currently tracking to complete the project on-time, utilising all central government funding for the project.

Eastern Hills Flood Warning Network Upgrades

7. The project is advancing well and on-track to deliver the agreed outcomes by the June 30, 2025, deadline. In addition to the 2 upgraded flood warning sites that are now operating, the following initiatives are in progress:
 - Cableway for high flow gauging to be installed across the Whareama River (Figure 3)
 - New flood forecast models for the Whareama Catchment
 - Additional high flow gauging equipment has been procured
 - Satellite redundancy is being introduced as a component of the Eastern Hills Flood Warning Network
 - Smart Signage to provide real-time flood data to motorists has been investigated and positively received by Masterton District Council. Quotes have been received for the hardware.

8. The cableway installation up stream of the Whareama River at Waiteko Bridge is a significant infrastructure investment in the Eastern Hills flood warning network. Previously, high flow discharge measurements were collected by deploying equipment from the downstream side of the bridge deck. Flow disturbance from the bridge piers, but also Health and Safety / traffic management requirements, meant this was not an ideal method. A purpose-built unmanned cableway means new flood gauging measurements will be collected and fed into flood forecasting models. A secondary outcome being it will enable sediment gauging equipment to be deployed. See Figure 3 for an image and schematic as visual context.

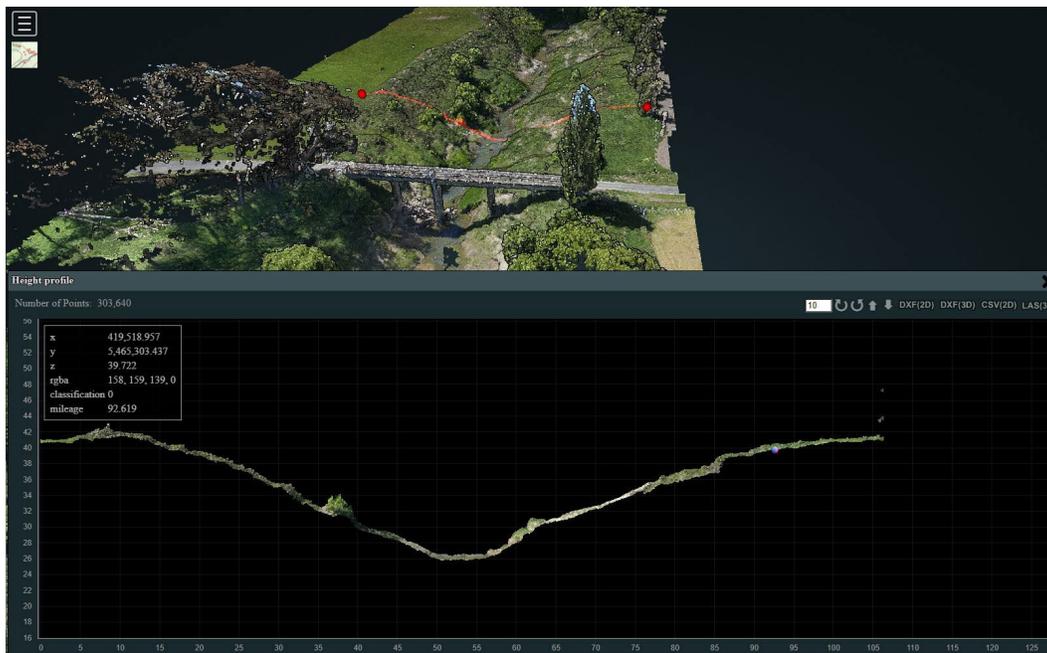


Figure 3: Schematic of the cableway location based on image capture from scale model developed by Greater Wellington Regional Council using drone imagery.

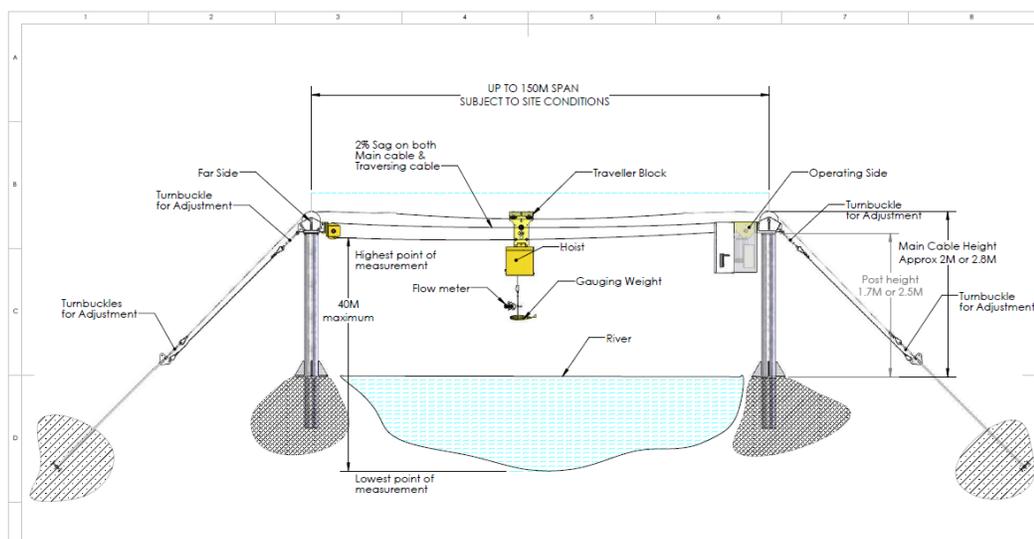


Figure 4: General Design Schematic

Figure 4 is a schematic of the system that will be provided by our specialist hydrology equipment supplier. The Traveller Block, Hoist and Flow meter will be stored off site and lifted onto the cable each time a gauging is undertaken. On-site power is required for the electric motors and will come from a small generator or mains connection.

Lower Wairarapa Valley Development Scheme - Operations

9. The Pounui River breached a stopbank in the New Year, and water was flowing over the adjacent landowner's paddocks. Short notice works were completed to mitigate the breach. This did require working in the active channel, but we tried to minimise this as much as possible. It is thought that the breach was due to the greater amounts of gravel migrating down the river in the higher flows after Christmas and filling up the channel. Additional work will be planned in the river to further mitigate this.
10. Pigeon Bush also breached its banks with similar results, which was considered to have been for similar reasons. Work to mitigate this has been completed and was undertaken in the dry, once the surface flows had dissipated.
11. Various berm and stopbank erosion spots have been addressed in the Ruamāhanga River, with more planned over the rest of the dry period.
12. Dry gravel extraction is ongoing on some of the high beaches across the Lower Valley. The amount of gravel being deposited in some rivers is greater than that allowed to be extracted under consents, therefore rivers are aggrading in their lower reaches. This may have an impact on the level of service offered by the Flood Protection defences.
13. Vegetation control, stopbank mulching and pest weed herbicide spraying are being undertaken across the Lower Wairarapa Valley Development Scheme (LWVDS).

14. Greater Wellington Regional Council (Greater Wellington) still needs to respond to the Lower Ruamāhanga Valley Floodplain Management Advisory Committee (LRVFMAC) queries around the proposed rate increases in the Long Term Plan and how these can be reduced. The LRVFMAC would like to understand the consenting process for the Lower Valley gravel extraction and expected time frame for this consent to become active. The LRVFMAC would also like to know whether the stock exclusion rules for drains can be reviewed in light the additional chemical herbicide applications now required to control weeds; and how this impacts on the watercourses and Lake Wairarapa.
15. Greater Wellington is currently preparing a response to explain the reasons, need and purpose of the proposed rates increase, while also investigating options to reduce the increase. This will be presented to the scheme once completed.
16. There are concerns that whilst the scheme is responsible for 40% of the costs of the proposed Kanoa Flood Protection Projects, there is little influence on how this money is spent. How are the best interests of the scheme and rate payers, as well as value for money considerations, being addressed in the governance of the programme?
17. Annual inspection of the LWVDS is well underway.
18. The 2024-25 Lower Wairarapa Valley Development Scheme Quarter 2 summary report is available on request.
19. Advice is being given to Whāngaimoana Beach residents regarding flooding issues from the watercourse adjacent to them. They are not part of the LWVDS but Greater Wellington are working with their representative to try and develop some feasible options for them.

Drainage Scheme – Operations

20. The second pump at Te Hopai has been removed for refurbishment and the initial inspection showed a large lump of wood had been drawn into the pump and damaged the impeller. The impeller will need to be replaced, and a replacement has been ordered.
21. Herbicide spraying has commenced within the drainage systems managed by Greater Wellington.
22. The broken flap gate at Ōnoke pump has replaced, but further work to the outlet has been identified. The puddle flange for pump 1 is also severely corroded and requires replacement, which is being planned for this dry season.

Lower Wairarapa Valley Development Scheme – Review

23. Greater Wellington has initiated a formal programme to conduct a comprehensive and holistic catchment-wide review of the Lower Wairarapa Valley Development Scheme, working collaboratively with partners from an intergenerational and multicultural perspective.

24. This programme will address several key areas, including:
- a. Flood protection, taking into account climate change predictions
 - b. Objectives for freshwater quality and quantity, incorporating Te Mana o Te Wai principles
 - c. Environmental and social objectives that consider various ecosystems
 - d. Economic objectives
 - e. Partnerships with mana whenua and the incorporation of mātauranga
 - f. Engagement with scheme members, stakeholders, and others considering changes in land ownership
 - g. Consenting processes for the barrage gates and operations and river maintenance in the Lower Valley
 - h. Coordination with existing programs, such as the Wairarapa Moana Project.
25. This review will focus on both short- and long-term goals and is expected to continue over several years.

Flood Resilience – Tranche 1

26. Central government has allocated \$1.2 billion for the Regional Infrastructure Fund (RIF), administered by Kānoa, to invest in regional infrastructure, boost productivity, and improve resilience. Included in this is \$200m for flood infrastructure, split into two funding tranches, and based on a 60:40 Crown:Council funding split. There are strong Ministerial expectations around delivery, and these are reflected in the Kānoa contracts for this funding.
27. Greater Wellington has 16 out of the 42 nationally approved projects, which include different types of flood protection and management infrastructure such as stopbanks, riparian planting, groynes and culverts. Table 1 provides a summary of progress on these projects. With one exception, these sites are all in the Wairarapa.

Table 1 – Summary of progress on the Tranche 1 projects

Site 1 - River Rd - Stage 2 - Wairarapa	Site completed
Site 2 - River Rd - Stage 3 - Wairarapa	All river works completed with minor reinstatement works remaining.
Site 3 - Waipoua SH2 Left Bank - Wairarapa	Enabling works completed – construction to begin mid-March.
Site 4 - Waipoua Industrial Site - Akura Road - Wairarapa	Enabling works completed – construction to begin mid-March.
Site 5 - Fullers Bend - Wairarapa	2,100 tonnes of Grade B rock have been delivered.
Site 6 - Awaroa Sill - Wairarapa	Ecological surveys underway.

Site 7 - Masterton Raw Water Supply - Wairarapa	Ecological surveys underway.
Site 8 - Hood Aerodrome - Wairarapa	Rock delivery underway onsite.
Site 9 - Otaki Cliffs - Otaki	Rock delivery underway onsite.
Site 10 - Tawaha Sill - Wairarapa	Enabling works to begin in March.
Site 11 - Pukio East Stopbank - Wairarapa	Site completed
Site 12 - Flood Gates - Fish Passage- Wairarapa	Enabling works to begin in March.
Site 13 - South Masterton Stopbank - Wairarapa	Enabling works have commenced onsite.
Site 14 - Homebush Wastewater Treatment Plant Resilience works - Wairarapa	Enabling works to begin in March.
Site 15 - Upper Ruamāhanga Buffer Establishment - Wairarapa	Plants growing in nursery – engagement has begun with some landowners.
Site 16 - Whakawhiriwhiri stream - Wairarapa	Enabling works to begin in March.

28. Stakeholder engagement is on track or completed for all project sites. Iwi engagement is on-going for all sites along with co-design on native planting at applicable sites.

Waipoua flood risk management – options analysis

29. Greater Wellington has been working with a project team comprising of Masterton District Council officers, community members and mana whenua to develop options to reduce the flood risk to the Masterton urban area in a 1% AEP event.
30. A separate report Waipoua River Urban Reach Flood Risk Management Options Report - 25.110) is being presented to the Wairarapa Committee at this meeting that discusses this in more detail.

Nature-based solutions feasibility study – Waipoua flood risk

31. In parallel to the urban flood risk management project, a feasibility study to assess and quantify the benefits of a suite of nature-based solutions for managing flood risk in the Waipoua River is being undertaken.

32. This work is focused on the upper catchment (above the urban reach) and includes investigation of natural river patterns, effects on groundwater recharge and low flows, and indigenous vegetation within the catchment.
33. The nature-based solutions will be assessed to quantify any reduction in flooding, as well as wider benefits. This work is due for completion at the end of July 2025 and will be presented to the Wairarapa Committee in September 2025.
34. This work will be complementary to the urban flood risk management project.

Featherston flood hazard modelling

35. In early March/April 2025, Greater Wellington will be talking to the Featherston community about flood hazard modelling they have been doing for Donalds' and Abbott's Creek.
36. The project will be undertaking Stage 3 of a 5-stage engagement process as per the Flood Hazard Modelling Standard (although Stage 2 was not required for this project). Flood hazard modelling helps develop up to date flood hazard maps that can be included in district plans and help with emergency management planning for the community.
37. Stage 3 engagement involves sharing a simulated historical event (in this case the 2 December 2018 Featherston flood event) with the community and asking whether the model reflects their memory of flooding during this event. This step will determine whether the model used to create the hazard maps for the catchment is calibrated correctly. The community will be asked to share their recollections of the 2018 event online through Greater Wellington's website or to come and have a chat at one of Greater Wellington's stalls at the local markets in late March.
38. The engagement process will include, up to date information on the Greater Wellington website, a Have Your Say form to submit comments and photos of flooding during the 2018 event, social media posts, flyers and posters to promote drop-in sessions to discuss the flood hazard modelling project.
39. Greater Wellington has been liaising with Wellington Water who will have representatives also attending our drop-in sessions, as well as South Wairarapa District Council.
40. Engagement for this stage will close on Sunday 6 April 2025. The engineers and modellers will then digest the information gathered and develop updated draft flood hazard maps for Donald's Creek and Abbott's Creek.
41. The next stage of engagement (Stage 4) is planned for May 2025. This will involve Greater Wellington sharing the draft flood hazard maps with the community for feedback. These maps will show the extent and depth of flooding in a 1% annual exceedance probability event both with and without the predicted impacts of climate change.
42. Once the maps are finalised, they will be shared with the Wairarapa Combined District Planning Committee as low, medium and high hazard maps, with the recommendation to incorporate this map into the Wairarapa Combined District Plan. Flood hazard maps support technical advice to South Wairarapa

communities when people are considering building consents and support the futureproofing of Featherston.

Bathymetric LiDAR

43. Cross section surveys have been carried out in our rivers since the regional council was established. These surveys have been used to monitor the change in the profile of the riverbed and inform decisions such as sustainable rates of gravel extraction. In the western part of the region, cross sections are typically located at 100m intervals, whereas in the Wairarapa these are typically located at 500m intervals.
44. As part of our resource consent conditions, it is necessary to understand these profiles to evaluate long term trends and manage the rivers sustainably.
45. The surveys have traditionally been carried out by physically clearing vegetation from the banks to provide sight lines, measuring elevation using levelling equipment, and processing the data. This process is time consuming, expensive and has considerable associated health and safety risk.
46. This year Greater Wellington has begun to replace the existing method of river cross section surveys with bathymetric LiDAR surveys for the larger rivers in the region to improve the quality of the information gathered.
47. Bathymetric LiDAR survey was flown in February 2025 for the Waiōhine and upper section of the Ruamāhanga River. Results of this survey will be available by June 2025.
48. A number of other Wairarapa Rivers will be included in the programme for next year, including:
 - Waingawa River
 - Waipoua River
 - Mangatārere Stream
 - Lower Ruamāhanga River (downstream of the Waiōhine confluence)
 - Wairarapa Moana (eastern shore)
 - Tauherenikau River
 - Huangarua River

Flood incident management training and exercising

49. Over the last reporting period the Environment Group has been working with the Wellington Region Emergency Management Office (WREMO) to support the Severe Weather Technical Advisory Group looking at holistic emergency response. We have continued to progress improvements in flood forecasting and are in discussions with consultants to deliver the annual training and exercising programme for 2025.

Ngā hua ahumoni Financial implications

Crack Willow Removal, Early Flood Warning Systems upgrade

50. Some of these projects are being funded with budgets being brought forward in the Long-Term Plan (LTP). Others are direct government funding with project management time as Greater Wellington’s contribution (detailed below).

Crack Willow Removal

Government Funding	DPMC – Cyclone Recovery Unit
Opex allocated:	\$250,000 (LTP 2024-34)

Early Flood Warning Systems

Government Funding	DPMC – Cyclone Recovery Unit
Capex allocated:	\$100,000 (LTP 2024-34)

Ngā Take e hāngai ana te iwi Māori Implications for Māori

51. Greater Wellington is required to manage land and water within a range of statutory requirements, including giving effect to Te Mana o Te Wai and considering Te Tiriti o Waitangi in the development and implementation of the Council’s strategies, plans, programmes and initiatives.
52. Implementation with mana whenua partners is guided by Te Whāriki – the new Māori Outcomes Framework as part of Council’s Long Term Plan 2024–34.
53. The Flood Resilience programme of work provides opportunity for mana whenua to be actively involved in the design of native planting at applicable project sites. Mana whenua in collaboration with hapū are leading out design on project sites and initial conversations are starting on the 20km of native planting as part of Site 15.

Te huritao ki te huringa o te āhuarangi Consideration of climate change

54. Each project within the catchment considers and responds to the predicted impacts of climate change when considering the appropriate response to the issue the project seeks to address.
55. This programme aligns with the 2015 Climate Change strategy, which states ‘we will help the region adapt to climate change’. The projects increase climate change adaptation and resilience to natural disasters in the region.
56. The greenhouse gas (GHG) emissions from rock supply vary depending on the quarry source of the rock and transport to the work sites. Quarry sources for projects vary. The emissions from rock supply production and transport are not presently part of the organisation’s GHG inventory.

57. Targeted planting has been carried out to mitigate CO2 emissions for the Kānoa projects.
58. Greater Wellington currently assesses options to address flood risk based on the predicted impacts of climate change over the next 100 years. Unless specified differently for specific projects, these values are an increase in rainfall intensity of twenty percent, and a sea level rise of 0.8 metres.

**Ngā kaiwaitohu
Signatories**

Writers	Tina Love – Team Leader Infrastructure Projects Hamish Fenwick – Team Leader Flood Operations Andy Brown – Knowledge Risk Management and Resilience Lead Francie Morrow – Team Leader Knowledge - Water Resilience
Approvers	Jacky Cox – Manager Infrastructure, Assets and Support Evan Harrison – Manager Knowledge Myfanwy Hill – Manager Environment Operations David Hipkins – Director Knowledge and Insights Jack Mace – Director Delivery Lian Butcher – Kaiwhakahaere Matua Taiao Group Manager Environment

He whakarāpopoto i ngā huritaonga Summary of considerations
<i>Fit with Council's roles or with Committee's terms of reference</i> The Committee is to consider areas and matters of strategic importance to the Wairarapa and recommend to Council on these matters.
<i>Contribution to Annual Plan / Long Term Plan / Other key strategies and policies</i> The projects contained within this report deliver on Greater Wellington's strategic priority area of te tū pakari a te rohe/regional resilience, and support delivery of Greater Wellington's strategic priority area of te oranga o te wai māori me te rerenga rauropi/freshwater quality and biodiversity. All river matters discussed here are included in the LTP.
<i>Internal consultation</i> Specific projects consult with groups and departments across Greater Wellington where relevant to a project.
<i>Risks and impacts - legal / health and safety etc.</i> The purpose of implementation floodplain management plans in implementing asset management procedures is to reduce the risk to communities and improve the region's resilience. Greater Wellington has adopted procedures and processes to minimise risks. Working with community committees enables a wider understanding of the risks before adoption of work programmes.

Wairarapa Committee
25 March 2025
Report 25.110



For Information

WAIPOUA RIVER URBAN REACH FLOOD RISK MANAGEMENT OPTIONS

Te take mō te pūrongo

Purpose

1. The purpose of this report is to provide an update on the Waipoua River urban reach flood risk management options.

Te horopaki

Context

2. Greater Wellington is working with members of the community, Masterton District Council and mana whenua (known as the Waipoua Project Team) to progress Stage 1 of the Major Project Response on Waipoua Urban Reach from the Te Kāuru Upper Ruamāhanga Floodplain Management Plan.
3. The Waipoua Project Team have completed updating the flood maps for the Waipoua River, these are provided as [Attachment 1](#) – Waipoua flood depth maps. They will be presented to the Wairarapa Committee for approval at the meeting on 3 June 2025.

Options analysis process

4. The project team are now progressing through the flood risk management options analysis process for the for the Waipoua urban reach of Masterton.
5. The process includes the following stages:
 - a Long list of options
 - b Short list of options
 - c Combination of options
 - d Community engagement on four concepts. These are simplified versions of the combinations of options and acknowledge that the final option will likely incorporate several of the concepts. These are discussed further in the Analysis section below.
 - e Selection of the preferred option, prepared as a concept design
 - f Detailed design for consenting and implementation

Progress update

6. The following activities have been completed as part of the development for the options for the urban reach:
 - a Geomorphology assessment
 - b Flood damages assessment
 - c Geotechnical assessment of existing stopbanks
 - d Modelling of selected long list options
7. The Waipoua Project Team considered a long list of options. This included structural and river management responses within and immediately upstream of the urban reach of the river.
8. Options for the upper catchment (outside of the urban reach), along with emergency management, and planning controls, have also been discussed. The project team recognises their importance and expects to make strong recommendations in parallel with a preferred structural and river management option recommendation.

Te tātaritanga

Analysis

Short list of flood risk management concepts

9. The short list of combined options has been determined by the project team, with support from Tonkin + Taylor. These have been simplified into four concepts which have recently been presented to the community through an engagement process that ran from 17 February to 16 March 2025.
10. There are four measures that are common across all concepts:
 - a Mahunga Drive bund
 - b Akura Road swale and floodwall/bund
 - c Cameron Cres bund
 - d Bridge refinement
11. These common measures are included in all concepts as they have been assessed as providing effective flood or erosion protection for certain areas.
12. The short list of four concepts provides variations on stopbank upgrades, river management works, and upper catchment considerations. These are outlined below.
13. Maps outlining concepts 1 to 3 are included as [Attachment 2](#) – Waipoua flood risk management concepts maps (concepts 1-3).
14. It is anticipated that the final preferred option will be a combination of several of the concepts as well as the four measures that are common across all options.

Concept 1: Improving and extending existing stopbanks

15. Stopbanks and bunds to be raised in their existing locations and with these banks extended to block flood flows.

Concept 2: Improving stopbanks and extensive channel work

16. Berm lowering and channel widening in the river channel in addition to stopbanks and bunds to be raised in their existing locations.

Concept 3: Retreated stopbanks on true left bank

17. Stopbanks to be raised in their existing positions on the true right bank and on retreated positions on the true left bank.

Concept 4: A reduction in flows of 5% to be achieved by upstream catchment processes, upgrades to stopbanks still required

18. Utilising nature-based solutions in the upstream catchment to reduce flood peaks by 5%. Stopbanks and bunds have been assumed to be upgraded in their existing locations but could be lower than with other concepts due to reduced flows.

Community engagement

19. These concepts have recently been presented to the community through an engagement process that ran from 17 February to 16 March 2025.
20. The following engagement activities were undertaken:
 - a Briefing to the Upper Ruamāhanga River Management Advisory Committee in December 2024
 - b Email briefing to Greater Wellington Councillor Adrienne Staples (31 January 2025)
 - c Masterton District Council elected members briefing (26 February 2025)
 - d Engagement with targeted affected parties including:
 - i Two visits to talk with Mawley Park management
 - ii Akura Road landowner meeting
 - iii Oxford Street residents letter drop
 - e Engagement events:
 - i Train station brochure handouts at Masterton, Solway and Renell Street stations on the mornings of 25, 26 and 27 February, respectively
 - ii Masterton Library drop-in sessions on 26 February and 4 March 2025
 - iii Presentation and drop-in at Lakeview School on 27 February 2025
 - iv Stall in Charlie's Lane on 1 March 2025
 - v Wairarapa Farmers Market stall on 8 March 2025
 - vi Stall at Queen Elizabeth Park on 9 March 2025
 - f Flyers distributed to all letterboxes in the Masterton urban area

- g Three sponsored social media posts
 - h Newspaper advertisements in two editions of the Wairarapa Times Age
 - i Information on the Greater Wellington website
 - j Have Your Say online form as well as physical feedback forms
21. At the time of writing, community engagement was still being undertaken. Feedback received from the community and Masterton District Council will be incorporated into the multi-criteria analysis process.
22. A copy of the handout that was provided to the community at the various events is provided as [Attachment 3](#) – Brochure provided at engagement events.

Ngā hua ahumoni

Financial implications

23. There will be financial implications for implementing the final flood risk management design for the Waipoua River. At this stage, high level cost estimates have been completed and suggest that the cost to implement these will be similar and are in the order of \$30 million.
24. Based on current rating classification this equates to an average total rate increase of approximately \$10 per \$100,000 CV for 25 years for rate payers within the Te Kāuru scheme. For rate payers across the Wellington region (outside of the Te Kāuru scheme) the increase in rates would be approximately \$0.50 per \$100,000 Capital Value for 25 years. This could be less if funding from central government is available.

Ngā Take e hāngai ana te iwi Māori

Implications for Māori

25. Greater Wellington is required to manage land and water within a range of statutory requirements, including giving effect to Te Mana o Te Wai and considering Te Tiriti o Waitangi in the development and implementation of the Council's strategies, plans, programmes and initiatives.
26. Implementation with mana whenua partners is guided by Te Whāriki – the new Māori Outcomes Framework as part of Council's Long Term Plan 2024–34.
27. The Waipoua Project includes members of local iwi and mana whenua. The multi-criteria analysis process for this is incorporating a criteria for Te Mana o te Wai as well as cultural, environmental and social values.

Te huritao ki te huringa o te āhuarangi

Consideration of climate change

28. The Waipoua flood risk management options project supports the 2015 Climate Change strategy, which states 'we will help the region adapt to climate change'. The project increases climate change resilience to flooding within the Masterton district.

29. Greater Wellington currently assesses options to address flood risk based on the predicted impacts of climate change over the next 100 years. The flood hazard mapping incorporates a predicted climate change to 2130 for rainfall using the RCP 6.0 scenario.
30. The final design and implementation will include rock supply. Greenhouse gas emissions from rock supply will be considered during implementation.

Ngā tūāoma e whai ake nei

Next steps

31. A multi-criteria analysis process to determine a preferred option combination is being undertaken by the Waipoua Project Team. This includes input from Masterton District Council, Greater Wellington officers, mana whenua and community members. This is being facilitated by the independent community facilitator of the group and includes inputs from subject matter experts.
32. This multi-criteria analysis process will also take community feedback into account once the engagement process is completed.
33. A preferred combination of options will then be selected. This will be developed to concept design stage and presented to the following:
 - a Masterton District Council for endorsement (April 2025)
 - b Upper Ruamāhanga River Management Advisory Committee for recommending to the Wairarapa Committee (5 May 2025)
 - c The Wairarapa Committee for recommending to the Environment Committee (3 June 2025)
34. The Environment Committee of Greater Wellington for endorsement (19 June 2025).
35. The nature-based solutions project is due for completion in July 2025.

Ngā āpitihanga

Attachments

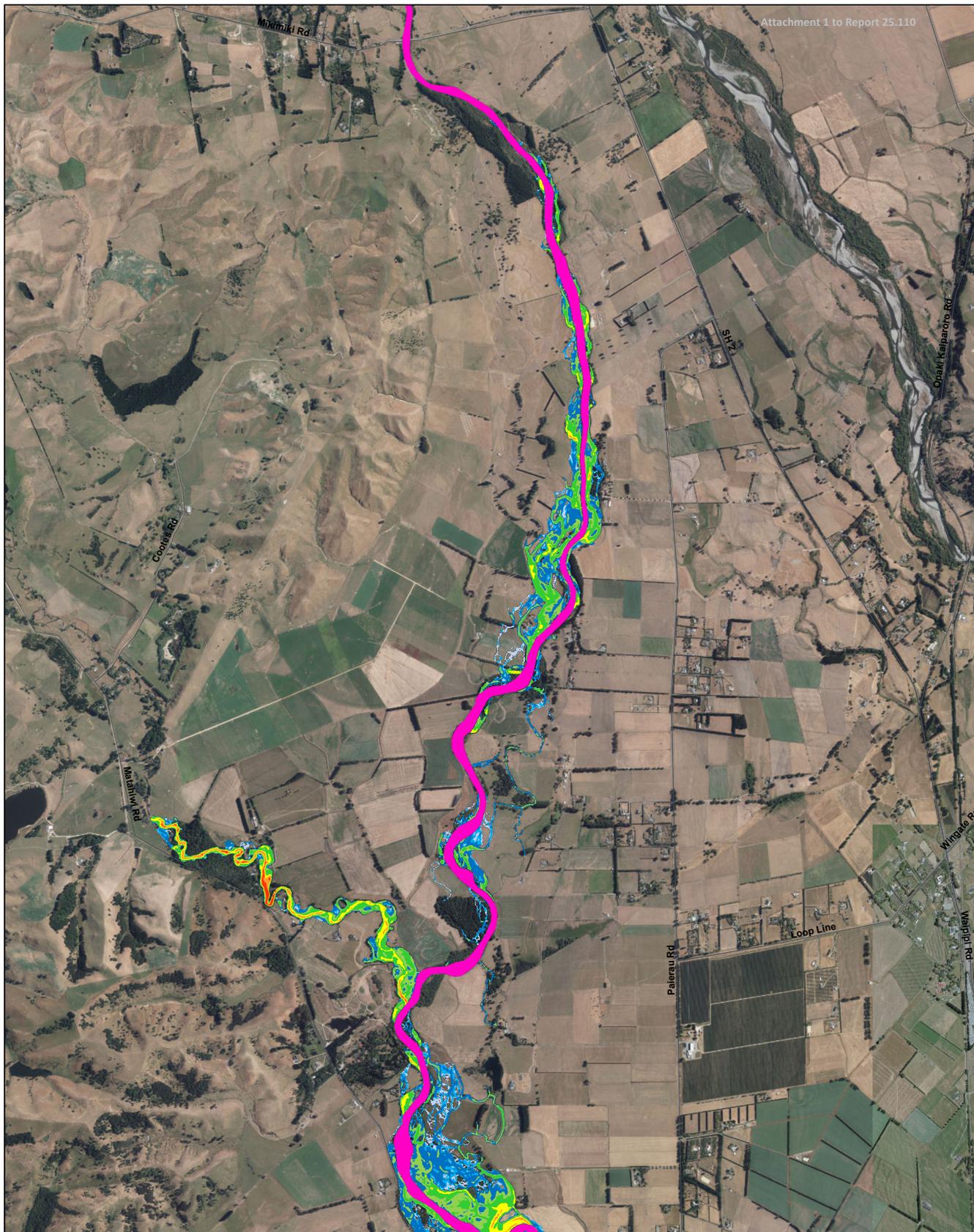
Number	Title
1	Waipoua flood depth maps
2	Waipoua flood risk management concepts maps (concepts 1-3)
3	Brochure provided at engagement events

**Ngā kaiwaitohu
Signatories**

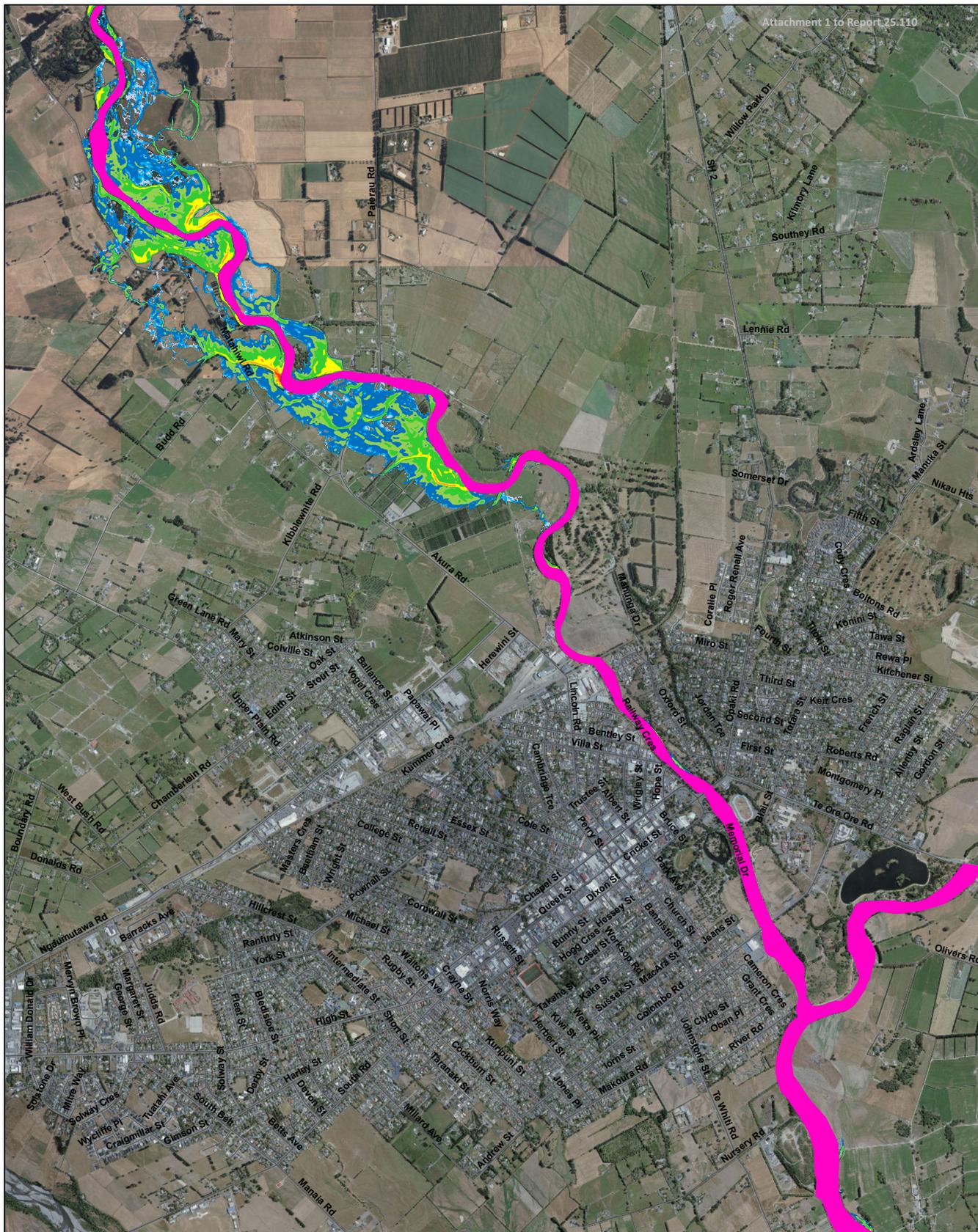
Writers	Francie Morrow – Team Leader Knowledge – Water Resilience
Approvers	Evan Harrison – Manager, Knowledge David Hipkins – Director, Knowledge and Insights Nicola Patrick – Director, Catchment Lian Butcher – Group Manager, Environment

<p>He whakarāpopoto i ngā huritaonga Summary of considerations</p>
<p><i>Fit with Council’s roles or with Committee’s terms of reference</i></p> <p>The Committee is to consider areas and matters of strategic importance to the Wairarapa and recommend to Council on these matters. The Waipoua River catchment is within the Wairarapa.</p>
<p><i>Contribution to Annual Plan / Long Term Plan / Other key strategies and policies</i></p> <p>The project contained within this report delivers on Greater Wellington’s strategic priority area of te tū pakari a te rohe/regional resilience, and support delivery of Greater Wellington’s strategic priority area of te oranga o te wai māori me te rerenga rauropi/freshwater quality and biodiversity.</p>
<p><i>Internal consultation</i></p> <p>Specific projects consult with groups and departments across Greater Wellington where relevant to the project. This includes Flood Operations – Delivery Function, Environment Restoration – Delivery Function, Catchment Function, various teams across Knowledge and Insights Function, and Finance.</p>
<p><i>Risks and impacts - legal / health and safety etc.</i></p> <p>The purpose of implementation floodplain management plans in implementing asset management procedures is to reduce the risk to communities and improve the region’s resilience. Greater Wellington has adopted procedures and processes to minimise risks. Working with community committees enables a wider understanding of the risks before adoption of work programmes.</p>

ATTACHMENT 1 - Flood depth maps for the Waipoua River

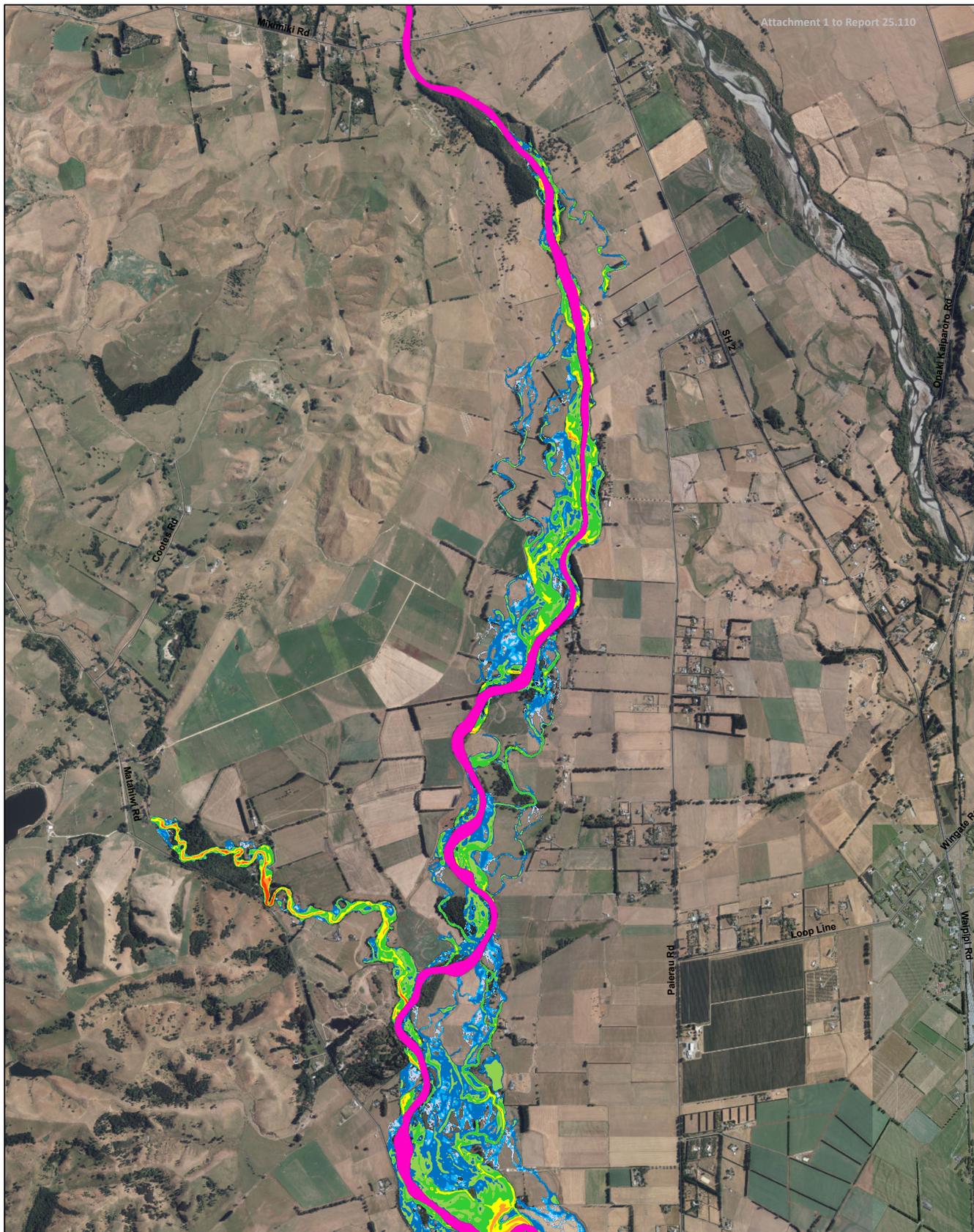


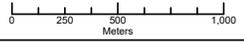
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<p>MAP 1 of 2</p> <p>PEAK DEPTH MAP</p> <p>39.35% AEP Flow, Historic Climate</p>					<p>Model Information: Coordinate System: New Zealand Transverse Mercator Vertical Datum: Wairarapa Local Datum</p> <p>Model Completed: Copyright: This work is licensed under the Creative Commons Attribution-NonCommercial 4.0 International License. To view a copy of this license, visit http://creativecommons.org/licenses/by-nc/4.0/</p>										
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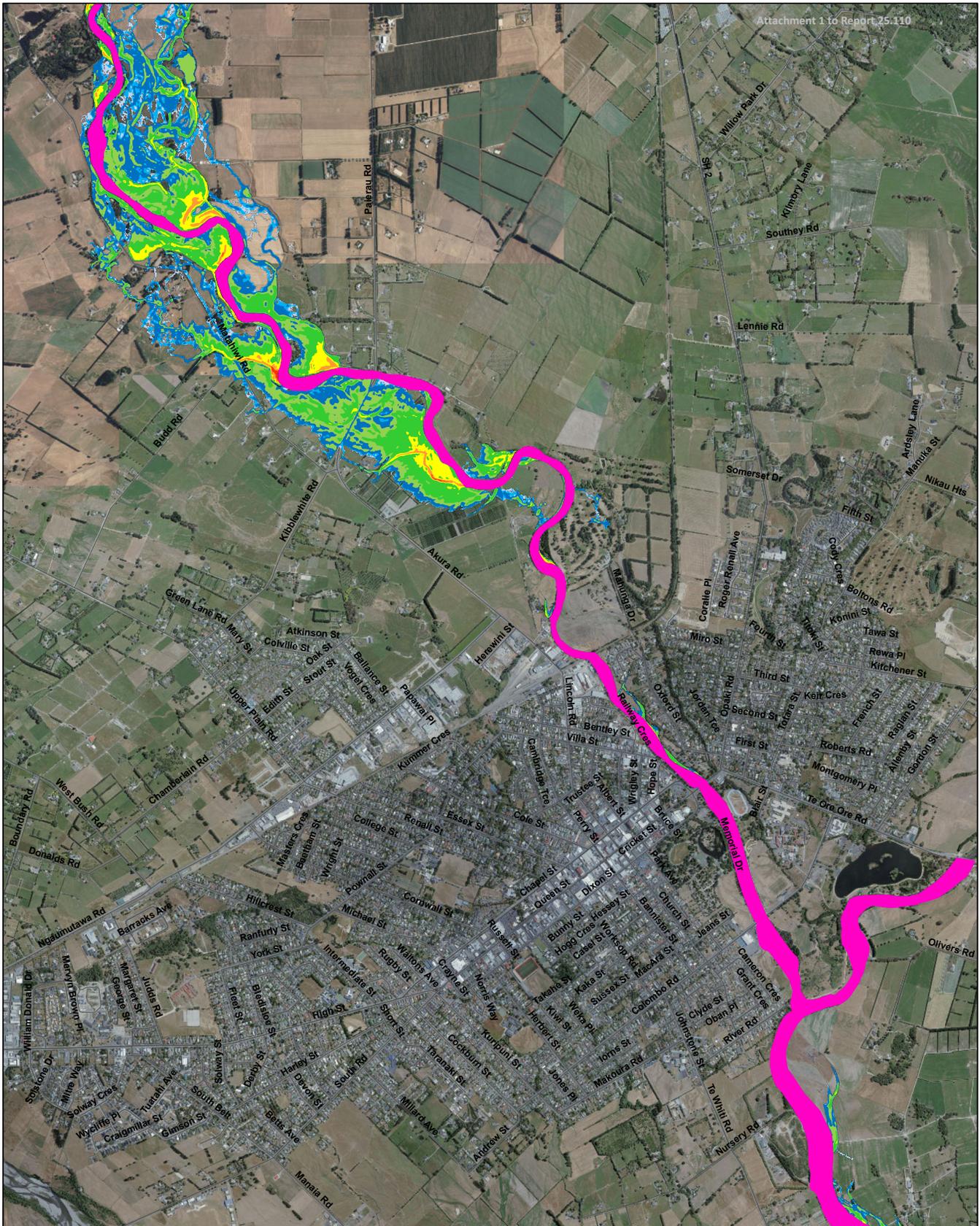
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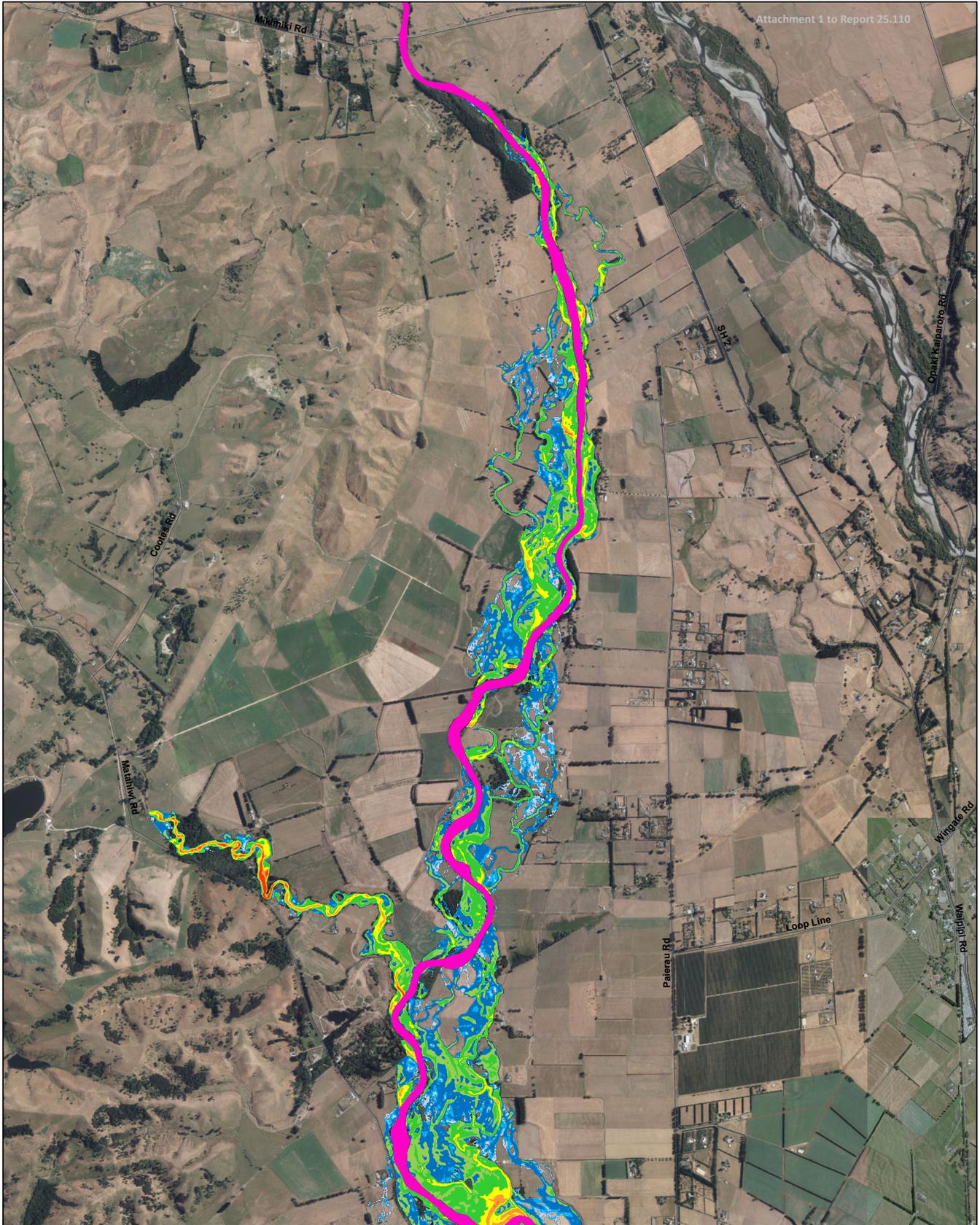


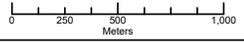
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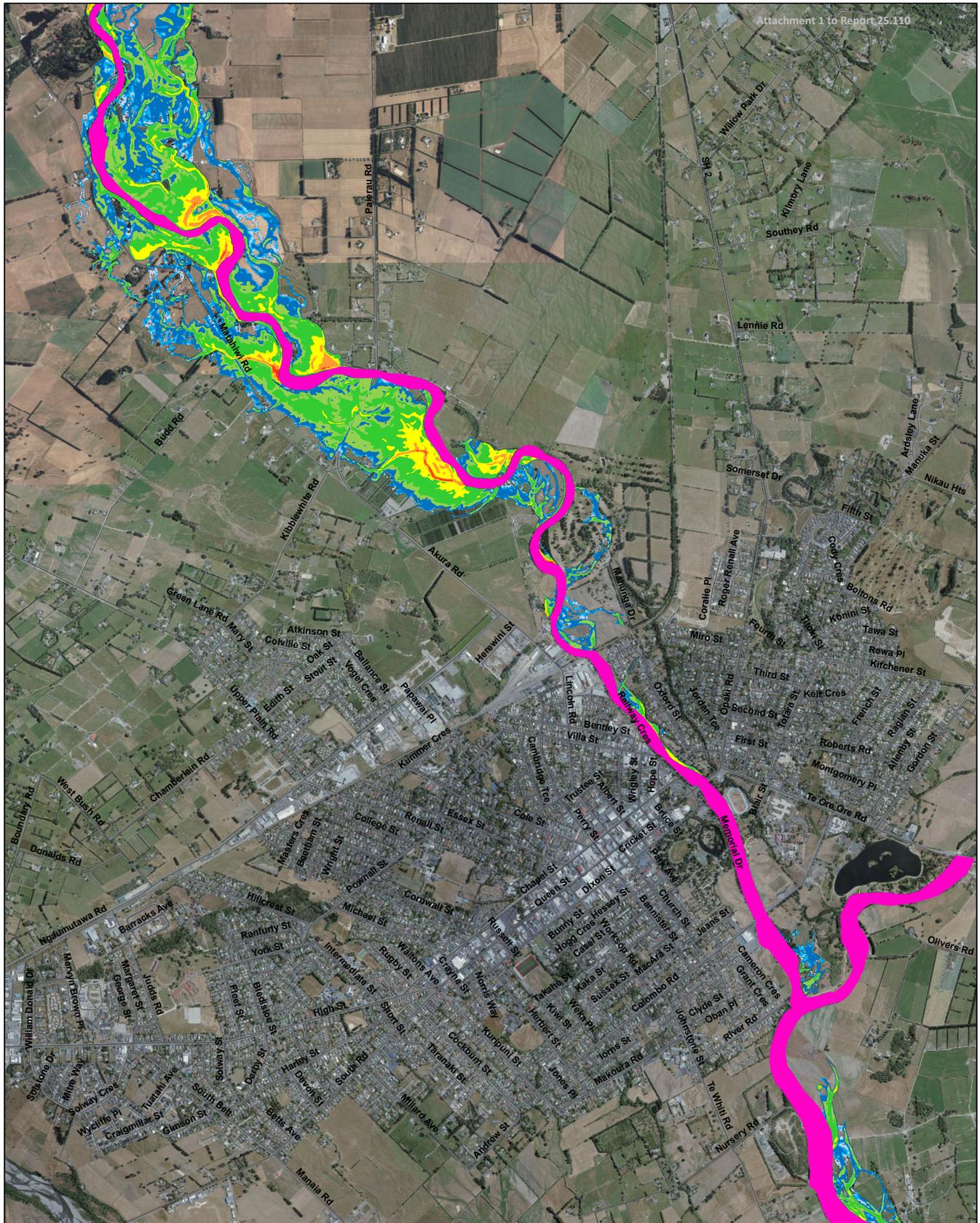
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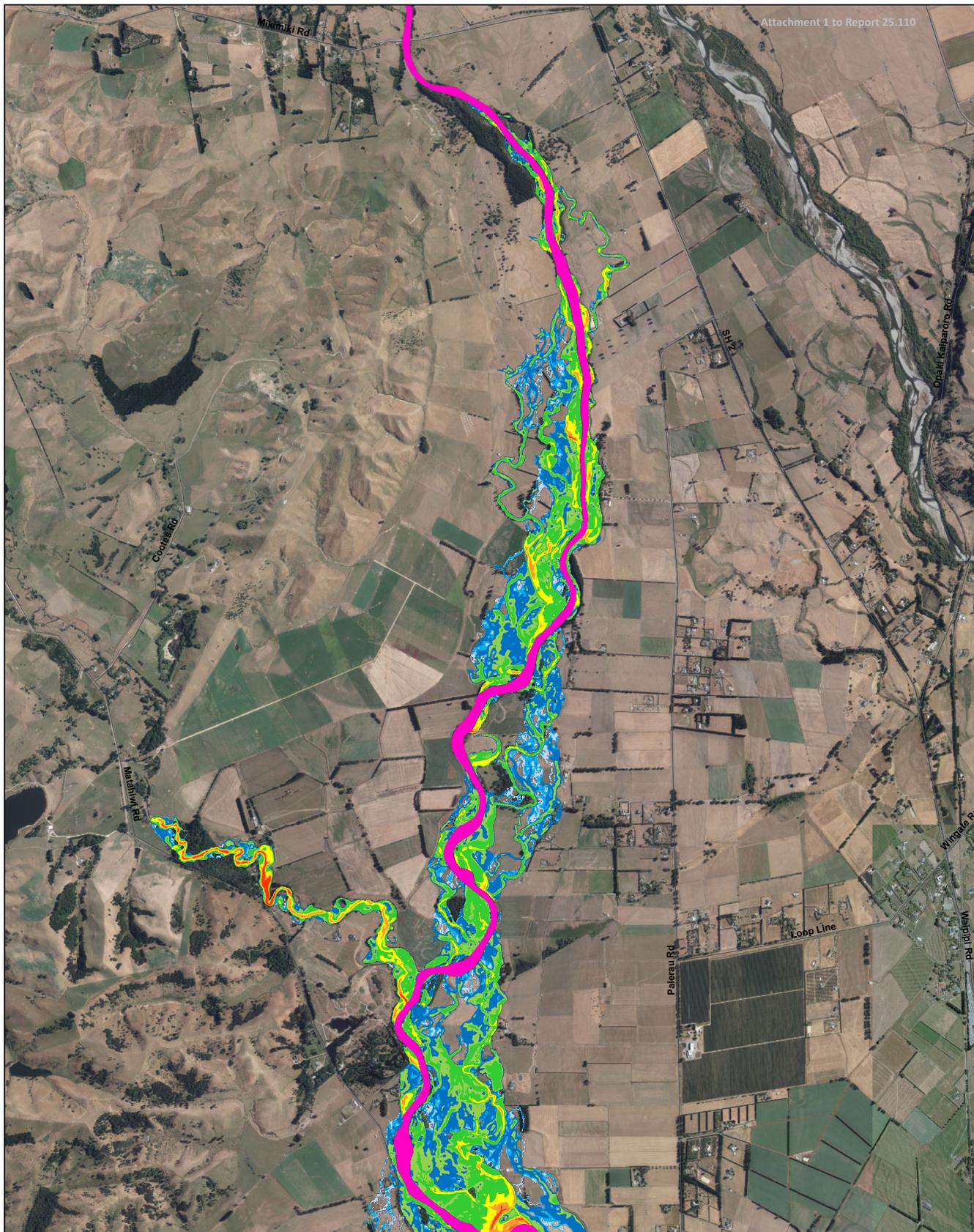


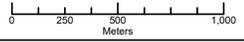
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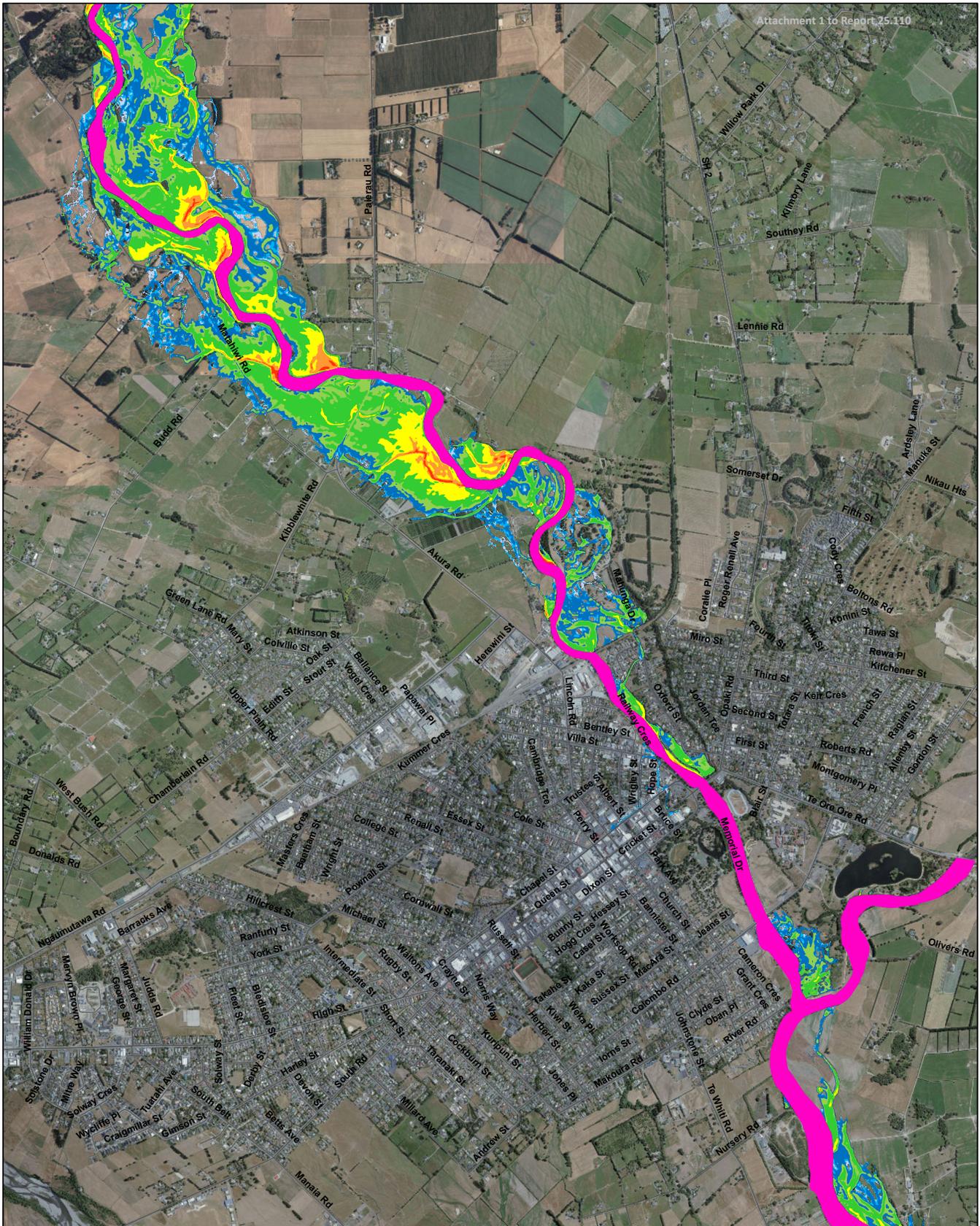
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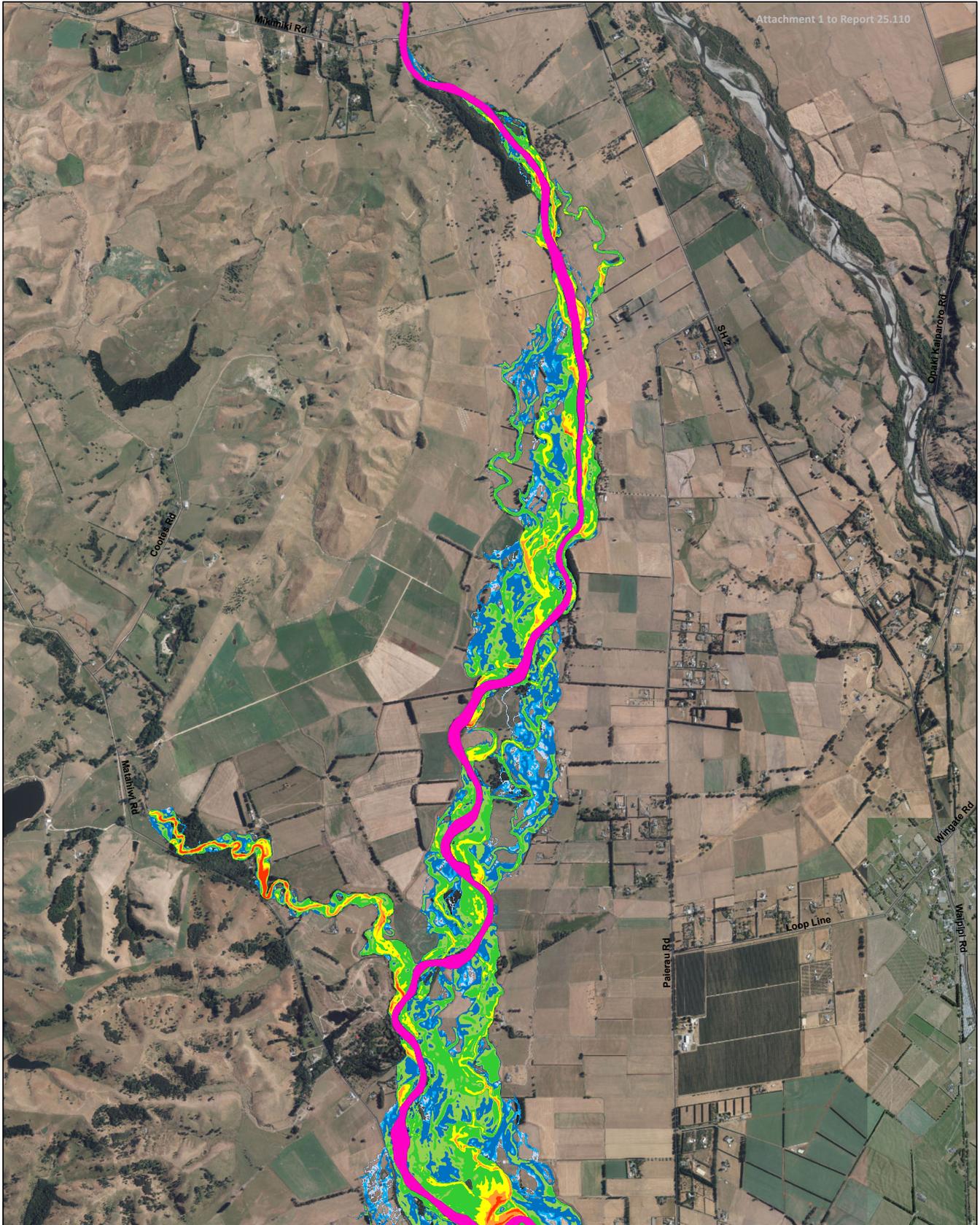


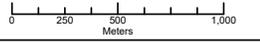
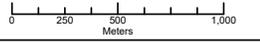
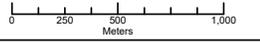
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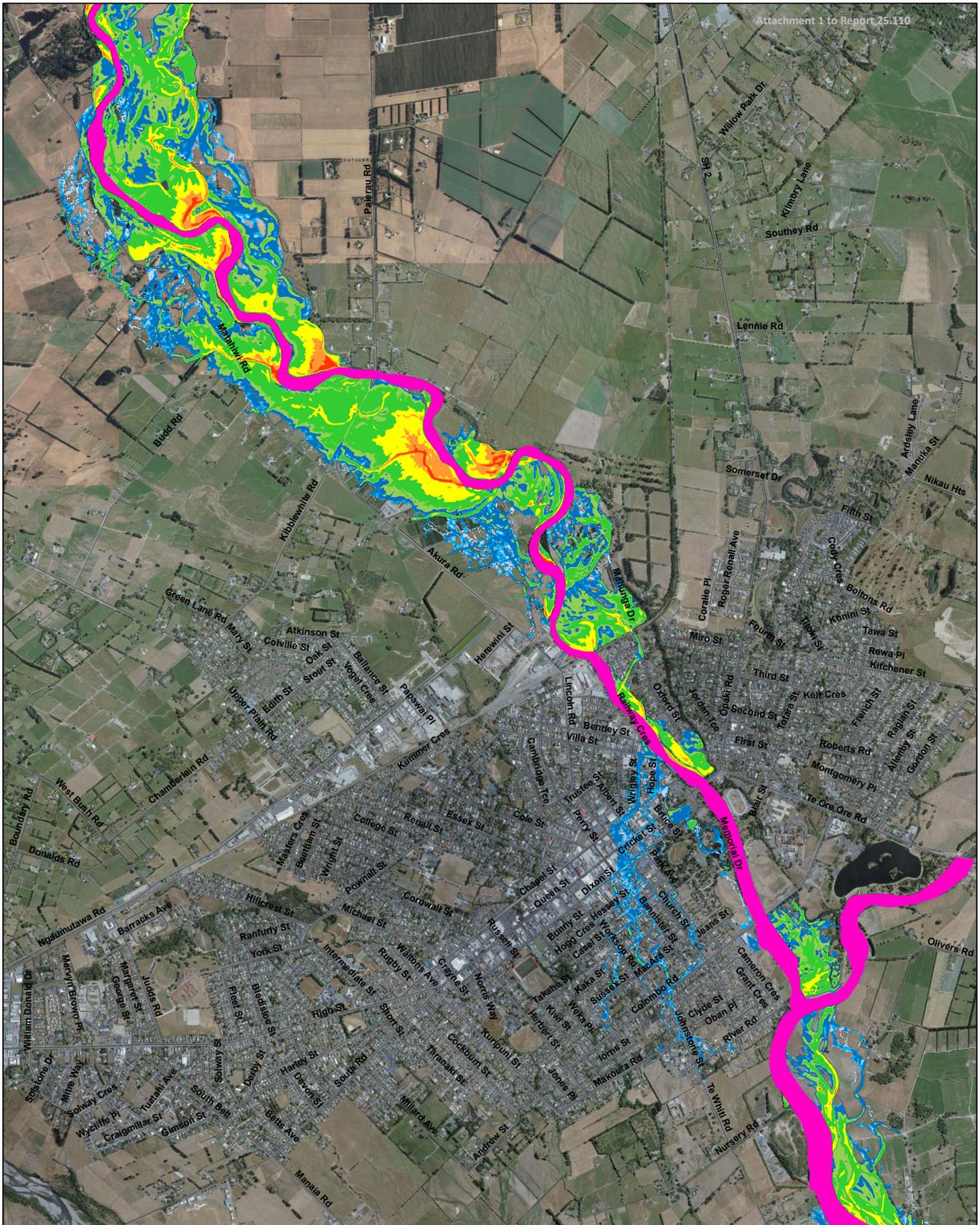
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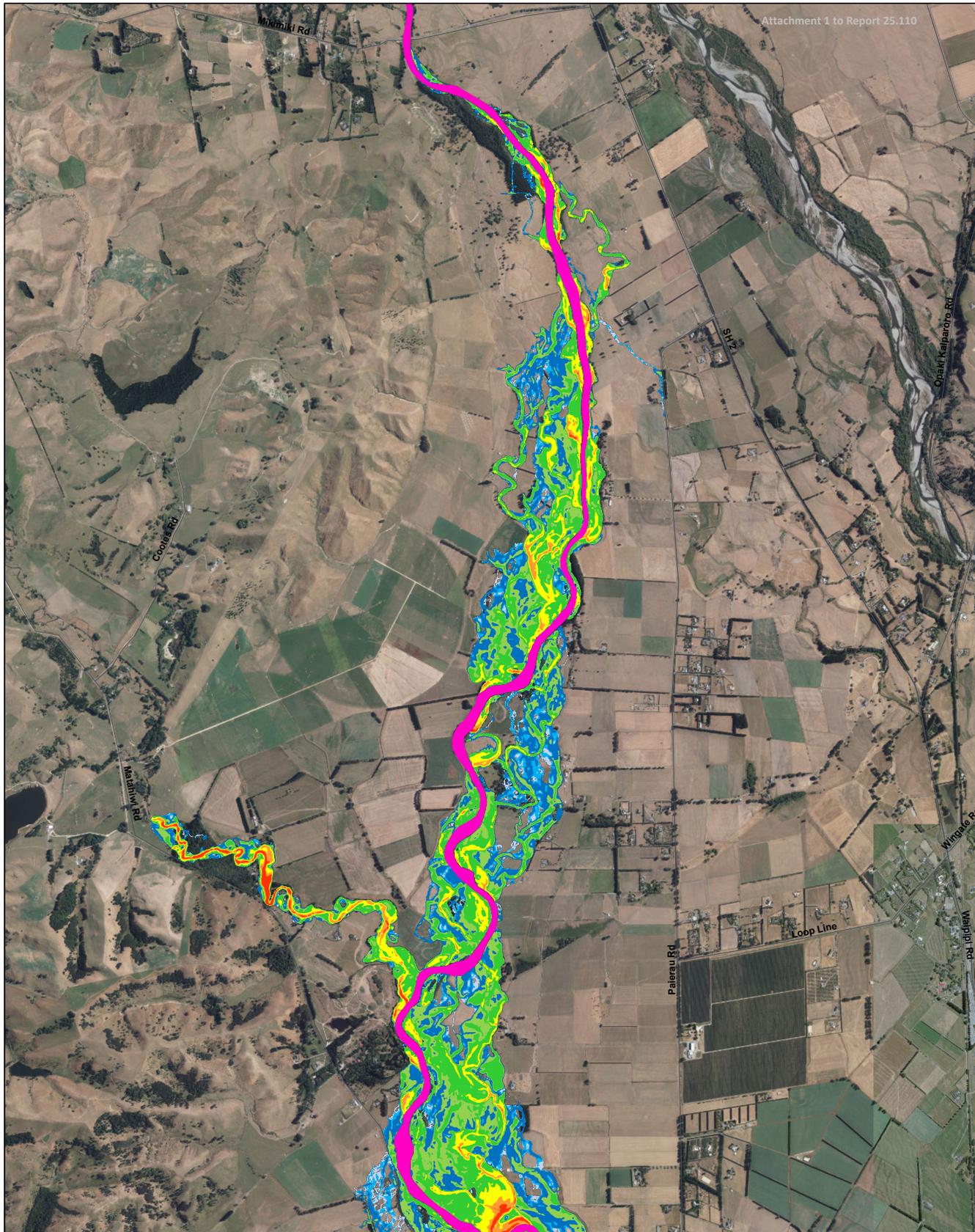
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MAP 2 of 2 PEAK DEPTH MAP 2% AEP Flow, Historic Climate
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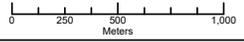
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1.5 - 2
2+

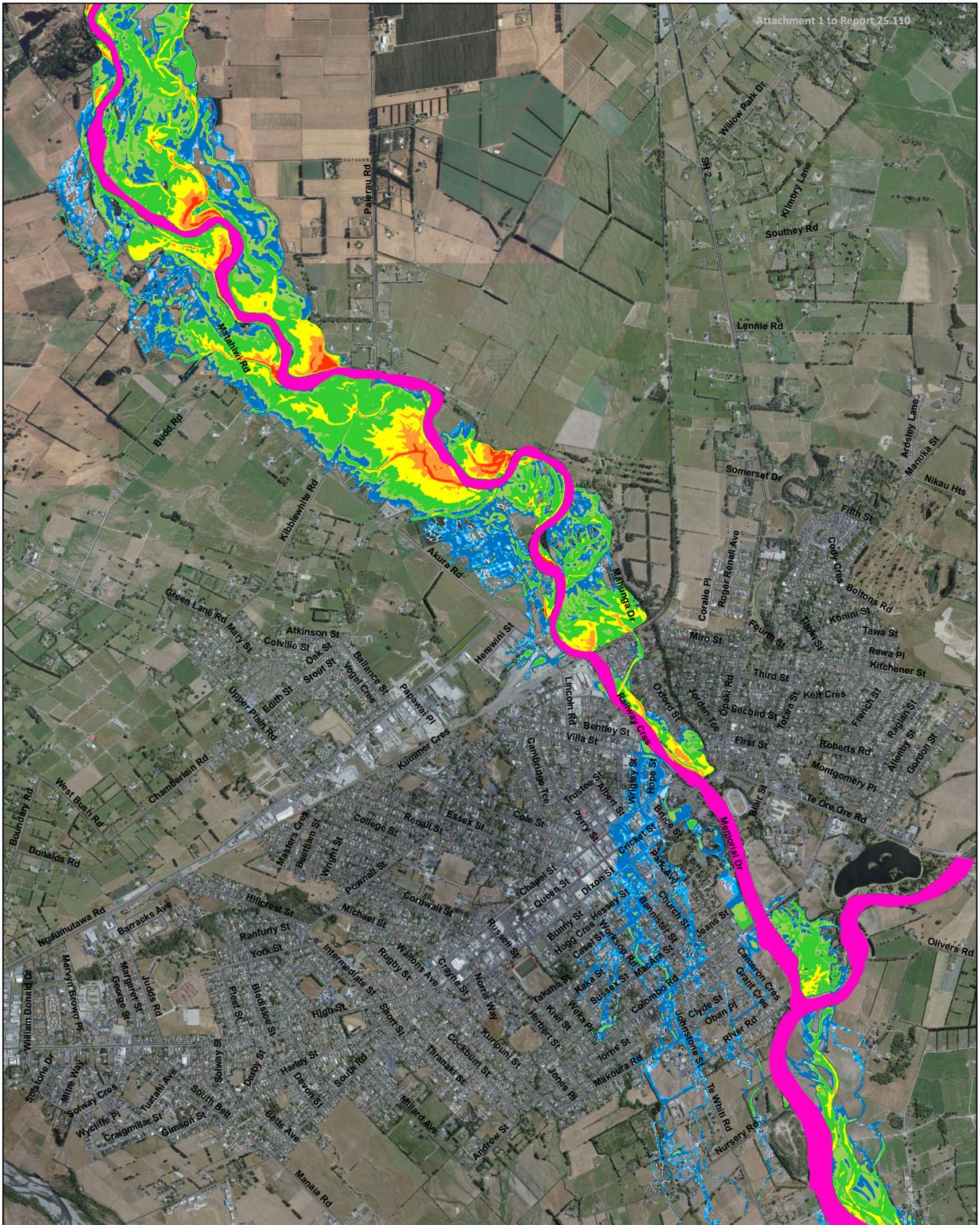
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REVISED BY	MG														
<p>MAP 1 of 2 PEAK DEPTH MAP 1% AEP Flow, Historic Climate</p>				<p>Model Information: Coordinate System: New Zealand Transverse Mercator Vertical Datum: Wairarapa Local Datum</p>											
<p>AUTHOR Matthew Gardner</p>			 <p>Greater Wellington Te Pane Matua Taiao</p>	<p>Model Completed: Copyright: This work is licensed under the Creative Commons Attribution-NonCommercial 4.0 International License. To view a copy of this license, visit http://creativecommons.org/licenses/by-nc/4.0/</p>											



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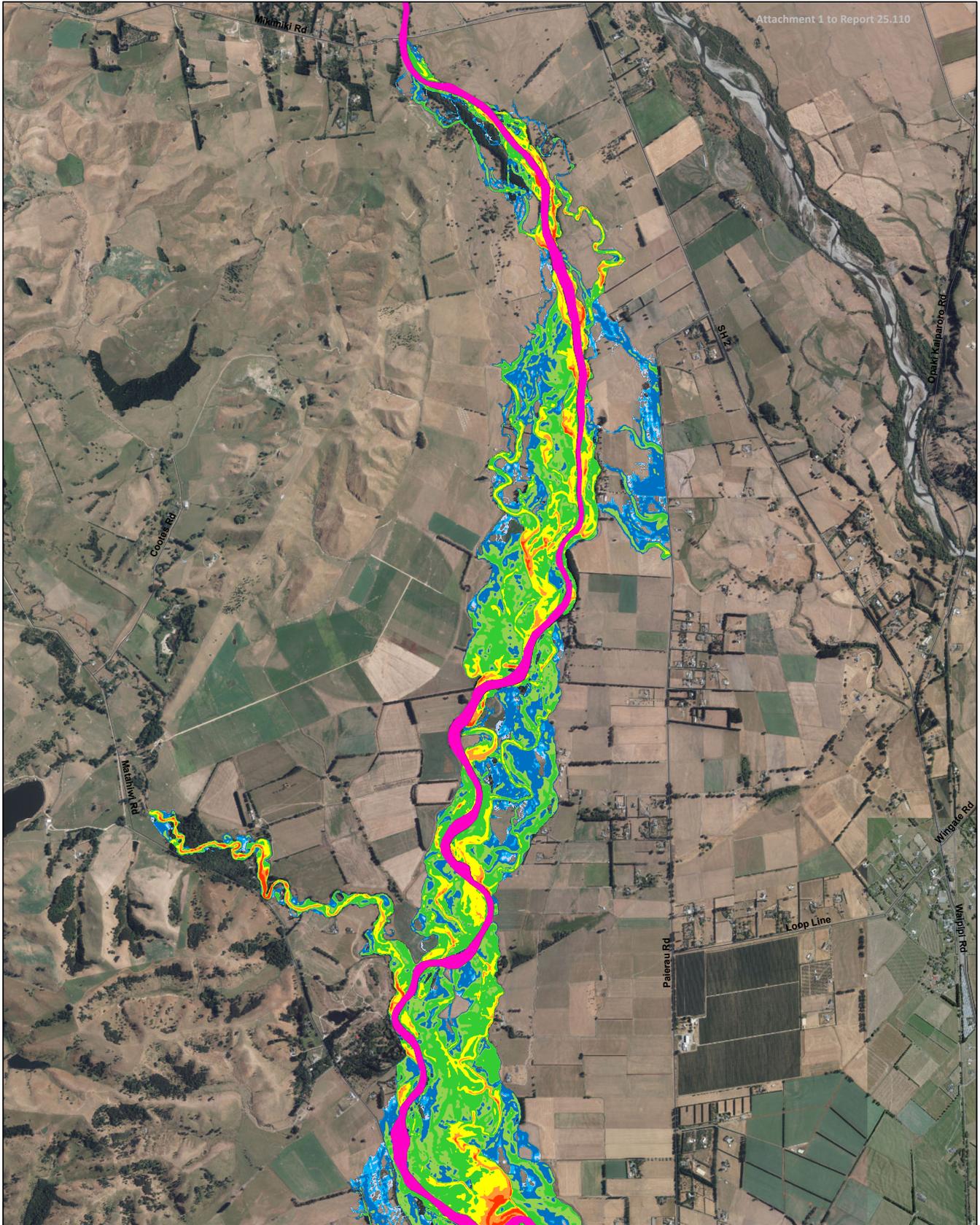
PROJECT Waipoua River Flood Modelling
MAP 2 of 2 PEAK DEPTH MAP 1% AEP Flow, Historic Climate
AUTHOR Matthew Gardner

Legend
— 1D Channel
— Roads
Peak water depth(m)
0
0 - 0.05
0.05 - 0.1
0.1 - 0.3
0.3 - 0.5
0.5 - 1
1 - 1.5
1.5 - 2
2+

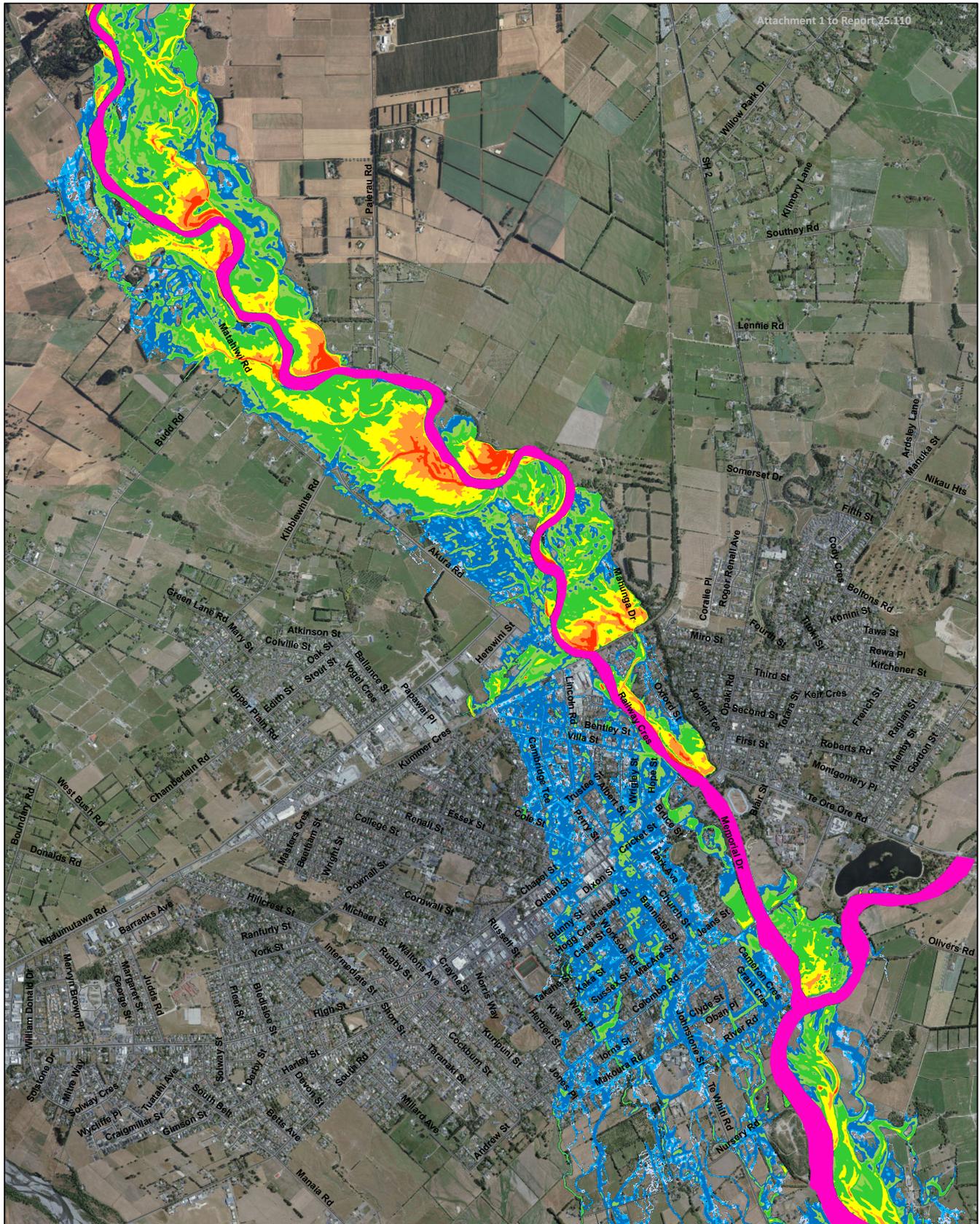
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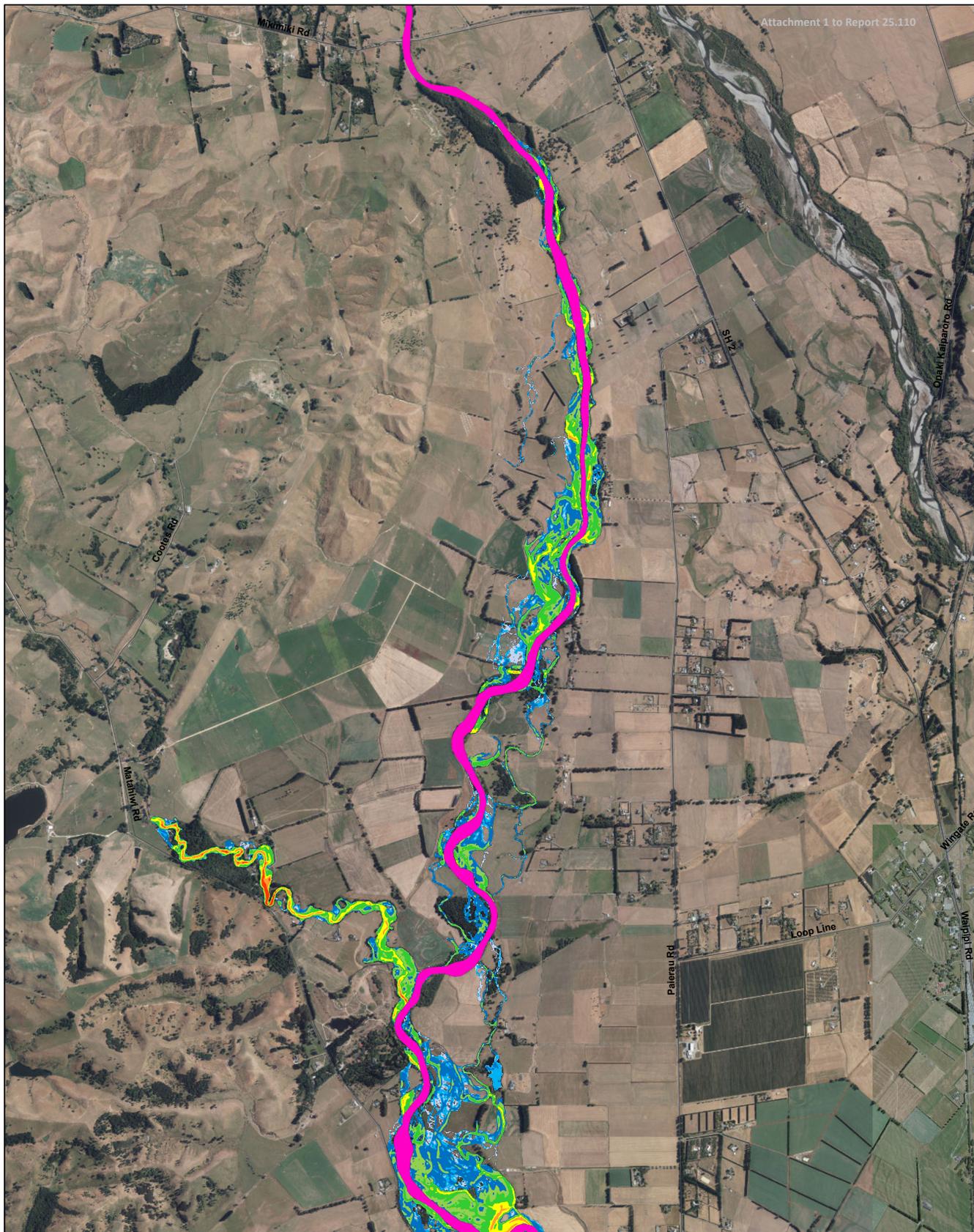
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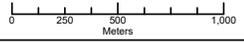


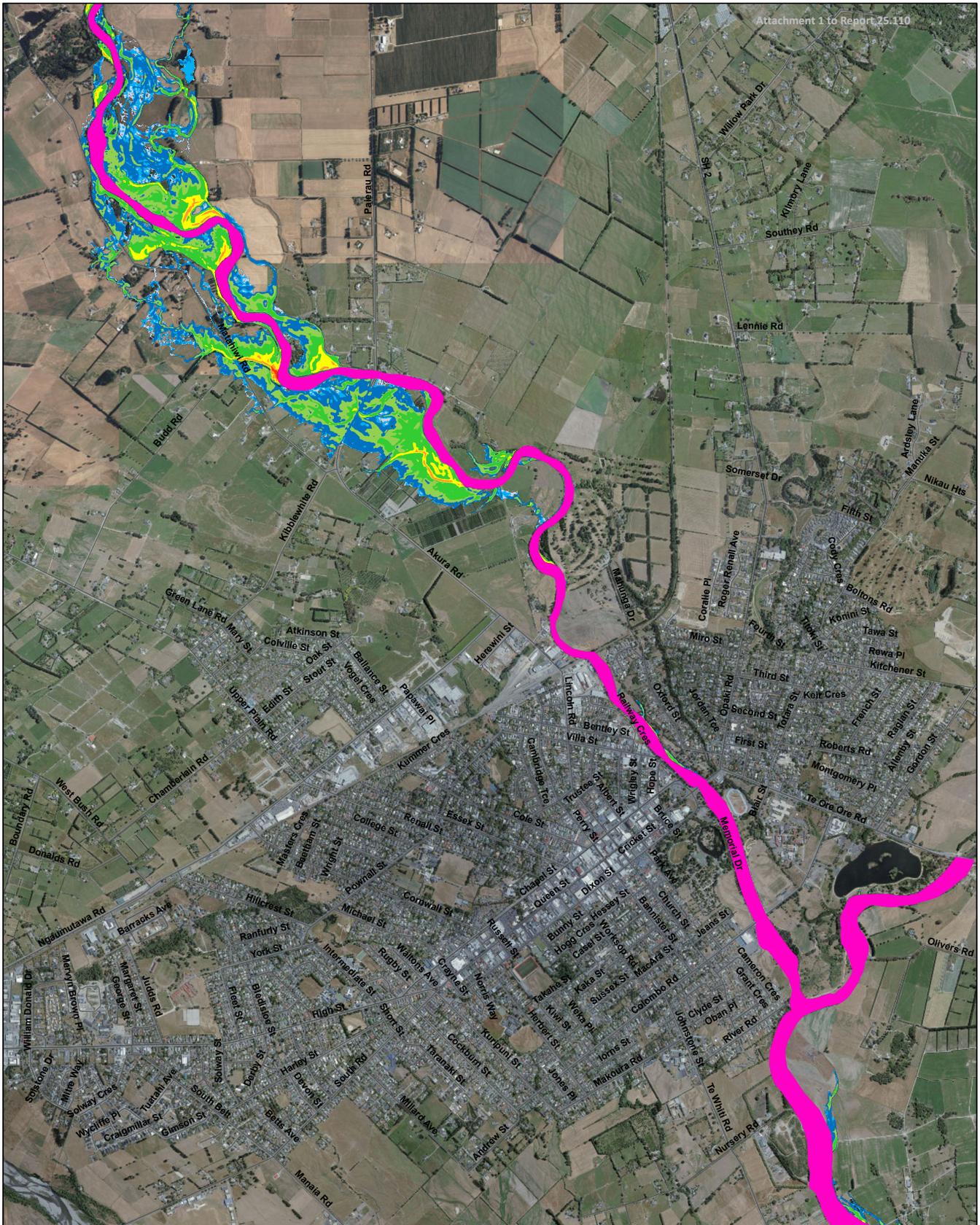
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REVISION	01														
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<p>MAP 1 of 2 PEAK DEPTH MAP 0.1% AEP Flow, Historic Climate</p>		<p>Greater Wellington Te Pane Matua Taiao</p>		<p>Copyright: This work is licensed under the Creative Commons Attribution-NonCommercial 4.0 International License. To view a copy of this license, visit http://creativecommons.org/licenses/by-nc/4.0/</p>											
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<p>PROJECT Waipoua River Flood Modelling</p>	<p>Legend</p> <ul style="list-style-type: none"> — 1D Channel — Roads Peak water depth(m) 0 0 - 0.05 0.05 - 0.1 0.1 - 0.3 0.3 - 0.5 0.5 - 1 1 - 1.5 1.5 - 2 2+ 		<table border="1"> <tr> <td>REVISION</td> <td>01</td> </tr> <tr> <td>DATE</td> <td>26/02/2023</td> </tr> <tr> <td>A3 SCALE</td> <td>1:22,000</td> </tr> <tr> <td>CREATED BY</td> <td>BS</td> </tr> <tr> <td>REVISED BY</td> <td>MG</td> </tr> </table>	REVISION	01	DATE	26/02/2023	A3 SCALE	1:22,000	CREATED BY	BS	REVISED BY	MG	<p>Model Information: Coordinate System: New Zealand Transverse Mercator Vertical Datum: Wairarapa Local Datum</p>	<p>Model Completed:</p>
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<p>MAP 2 of 2 PEAK DEPTH MAP 0.1% AEP Flow, Historic Climate</p> <p>AUTHOR Matthew Gardner</p>			<p>Copyright: This work is licensed under the Creative Commons Attribution-NonCommercial 4.0 International License. To view a copy of this license, visit http://creativecommons.org/licenses/by-nc/4.0/</p>	<p>Scale: 0, 250, 500, 1,000 Meters</p> <p>North Arrow</p>											



<p>PROJECT Waipoua River Flood Modelling</p>	<p>Legend</p> <ul style="list-style-type: none"> █ 1D Channel — Roads Peak water depth(m) 0 0 - 0.05 0.05 - 0.1 0.1 - 0.3 0.3 - 0.5 0.5 - 1 1 - 1.5 1.5 - 2 2+ 	 <p>LANDRIVERSEA CONSULTING</p>	<table border="1"> <tr> <td>REVISION</td> <td>01</td> </tr> <tr> <td>DATE</td> <td>1/03/2023</td> </tr> <tr> <td>A3 SCALE</td> <td>1:22,000</td> </tr> <tr> <td>CREATED BY</td> <td>BS</td> </tr> <tr> <td>REVISED BY</td> <td>MG</td> </tr> </table>	REVISION	01	DATE	1/03/2023	A3 SCALE	1:22,000	CREATED BY	BS	REVISED BY	MG		
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<p>MAP 1 of 2 PEAK DEPTH MAP 39.35% AEP Flow, Future Climate (RCP6)</p>				<p>Model Information: Coordinate System: New Zealand Transverse Mercator Vertical Datum: Wairarapa Local Datum</p>											
<p>AUTHOR Matthew Gardner</p>			<p>Model Completed: Copyright: This work is licensed under the Creative Commons Attribution-NonCommercial 4.0 International License. To view a copy of this license, visit http://creativecommons.org/licenses/by-nc/4.0/</p>												



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PROJECT
Waipoua River Flood Modelling

MAP 2 of 2
PEAK DEPTH MAP
39.35% AEP Flow, Future Climate (RCP6)

AUTHOR
Matthew Gardner

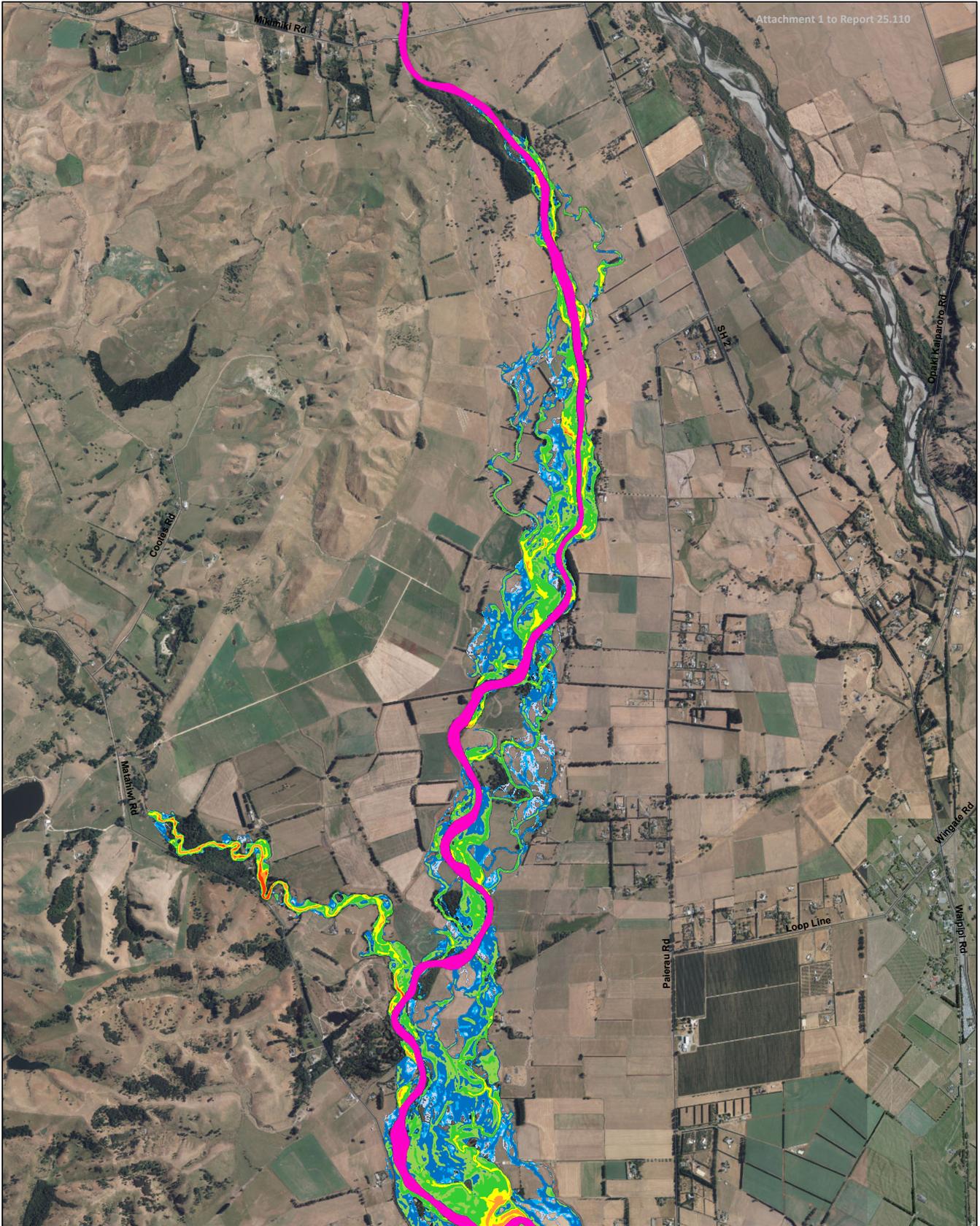
Legend	
	1D Channel
	Roads
	Peak water depth(m)
	0 - 0.05
	0.05 - 0.1
	0.1 - 0.3
	0.3 - 0.5
	0.5 - 1
	1 - 1.5
	1.5 - 2
	2+



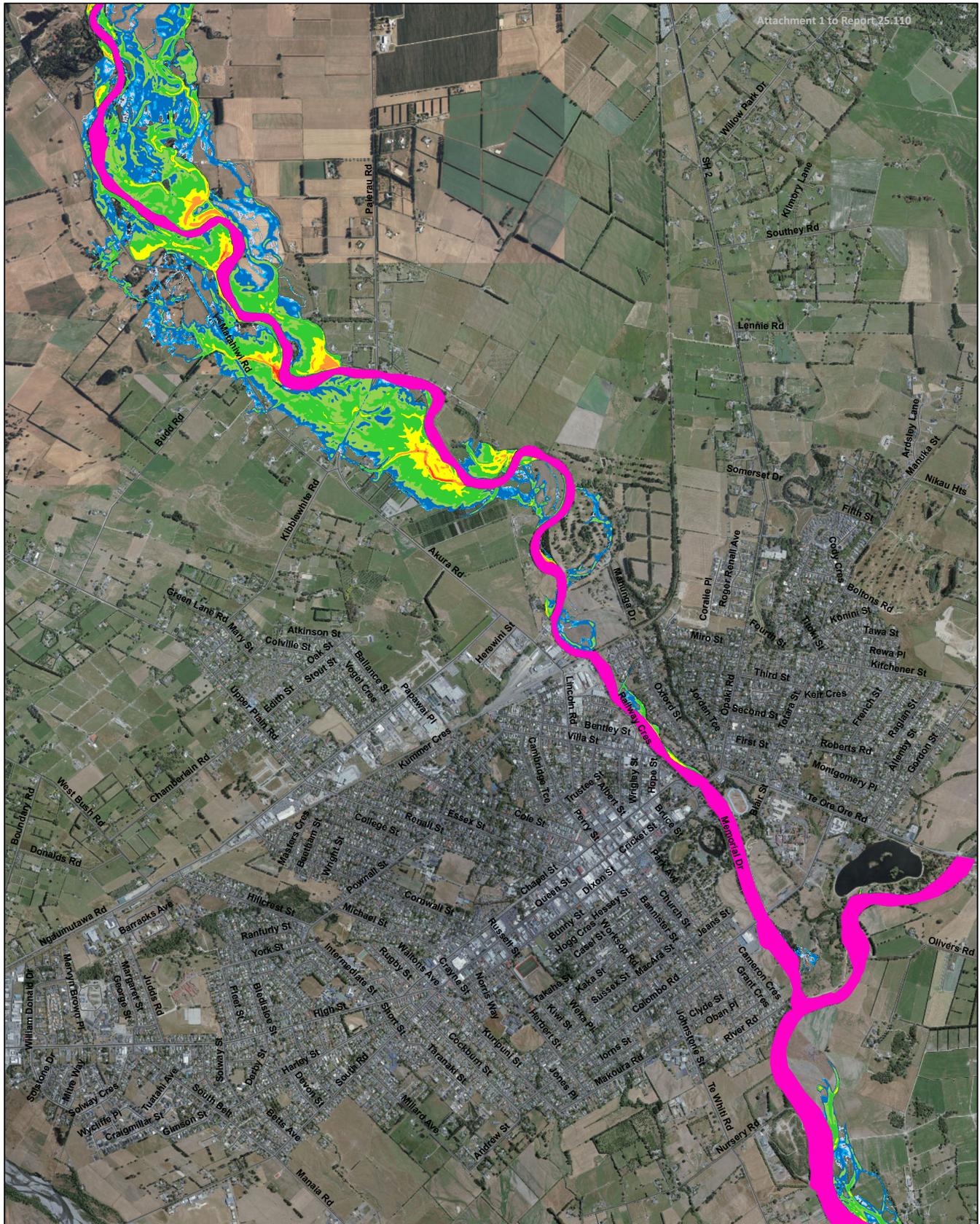
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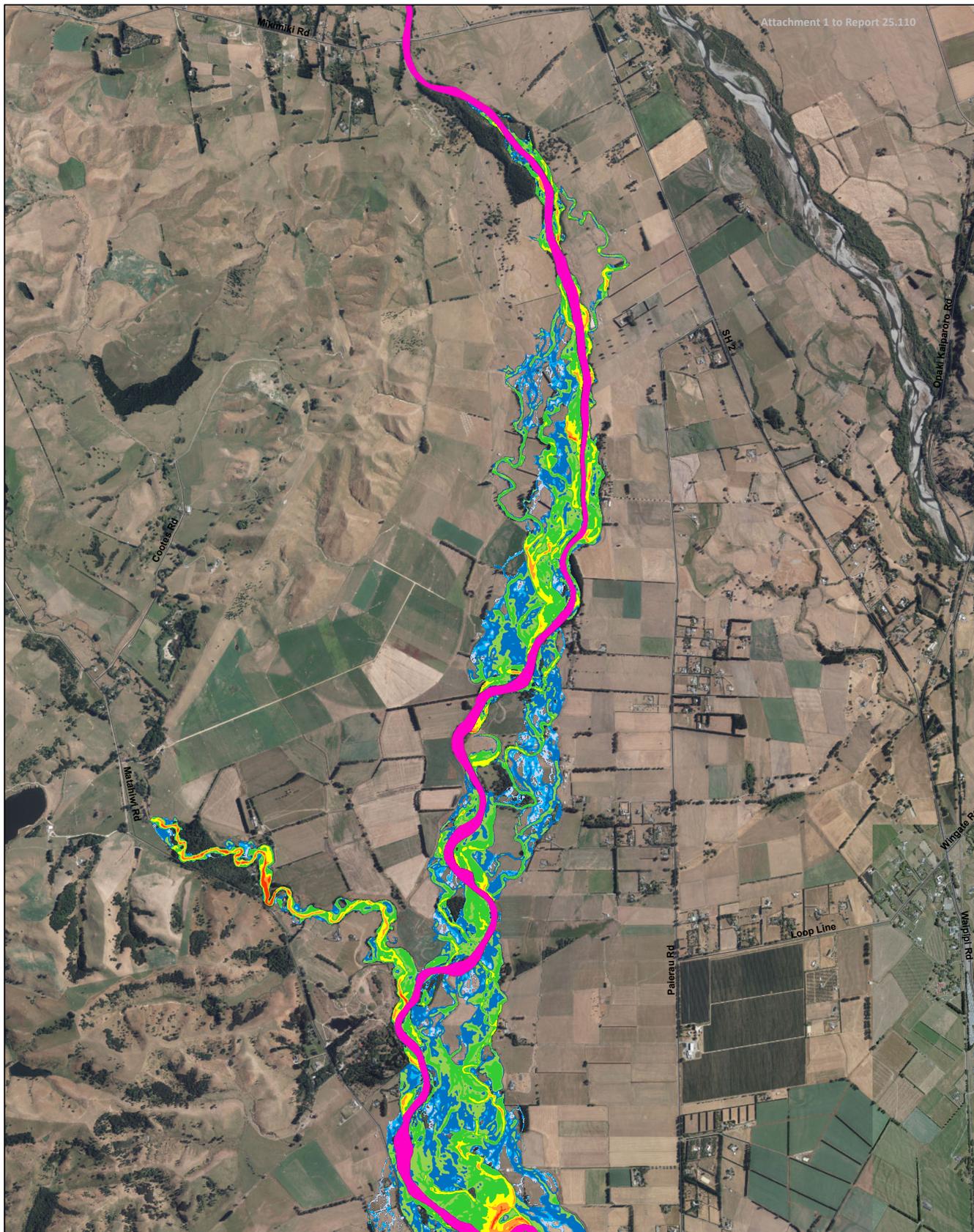


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<p>MAP 1 of 2</p> <p>PEAK DEPTH MAP</p> <p>20% AEP Flow, Future Climate (RCP6)</p>	<p>Model Information: Coordinate System: New Zealand Transverse Mercator Vertical Datum: Wairarapa Local Datum</p>	<p>Model Completed:</p>	<p>Copyright: This work is licensed under the Creative Commons Attribution-NonCommercial 4.0 International License. To view a copy of this license, visit http://creativecommons.org/licenses/by-nc/4.0/</p>	<p>LANDRIVERSEA CONSULTING</p> <p>Greater Wellington Te Pane Matua Taiao</p>											
<p>AUTHOR Matthew Gardner</p>															

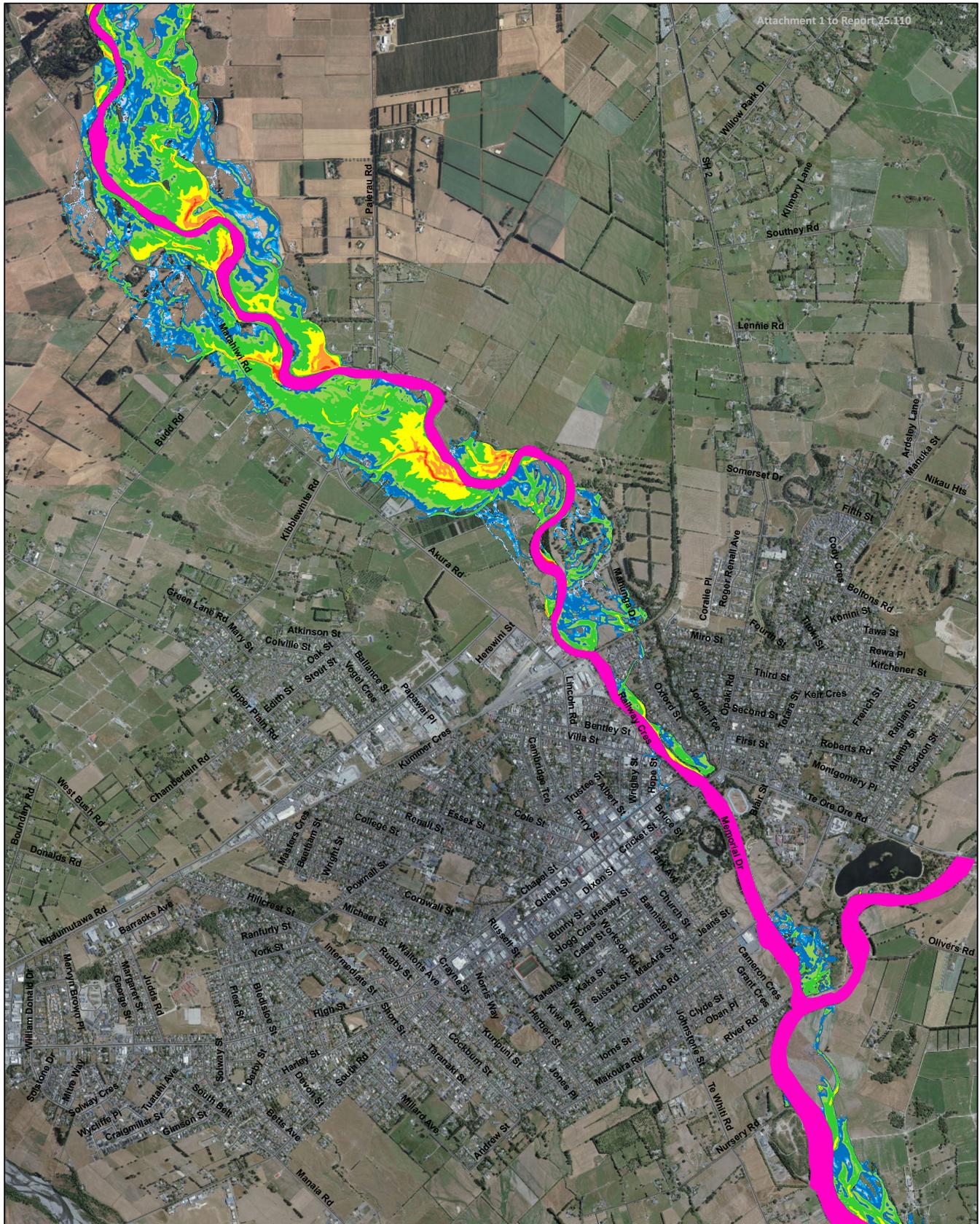


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PROJECT Waipoua River Flood Modelling	Legend 	REVISION 01	
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MAP 2 of 2		A3 SCALE 1:22,000	Model Information: Coordinate System: New Zealand Transverse Mercator Vertical Datum: Wairarapa Local Datum
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20% AEP Flow, Future Climate (RCP6)		REVISED BY MG	
AUTHOR Matthew Gardner			

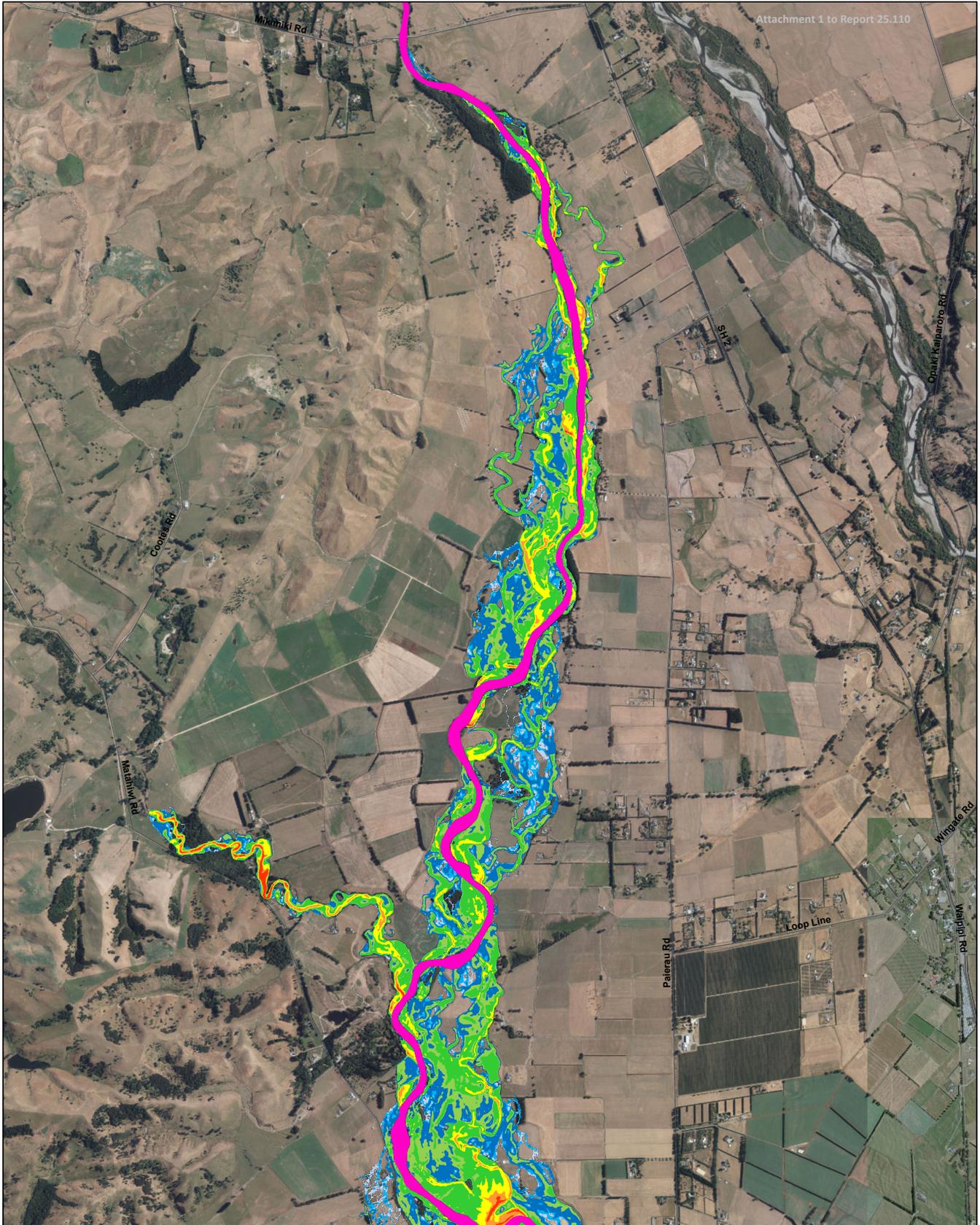


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A3 SCALE	1:22,000														
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REVISED BY	MG														
<p>MAP 1 of 2</p> <p>PEAK DEPTH MAP</p> <p>10% AEP Flow, Future Climate (RCP6)</p>															
<p>AUTHOR Matthew Gardner</p>															



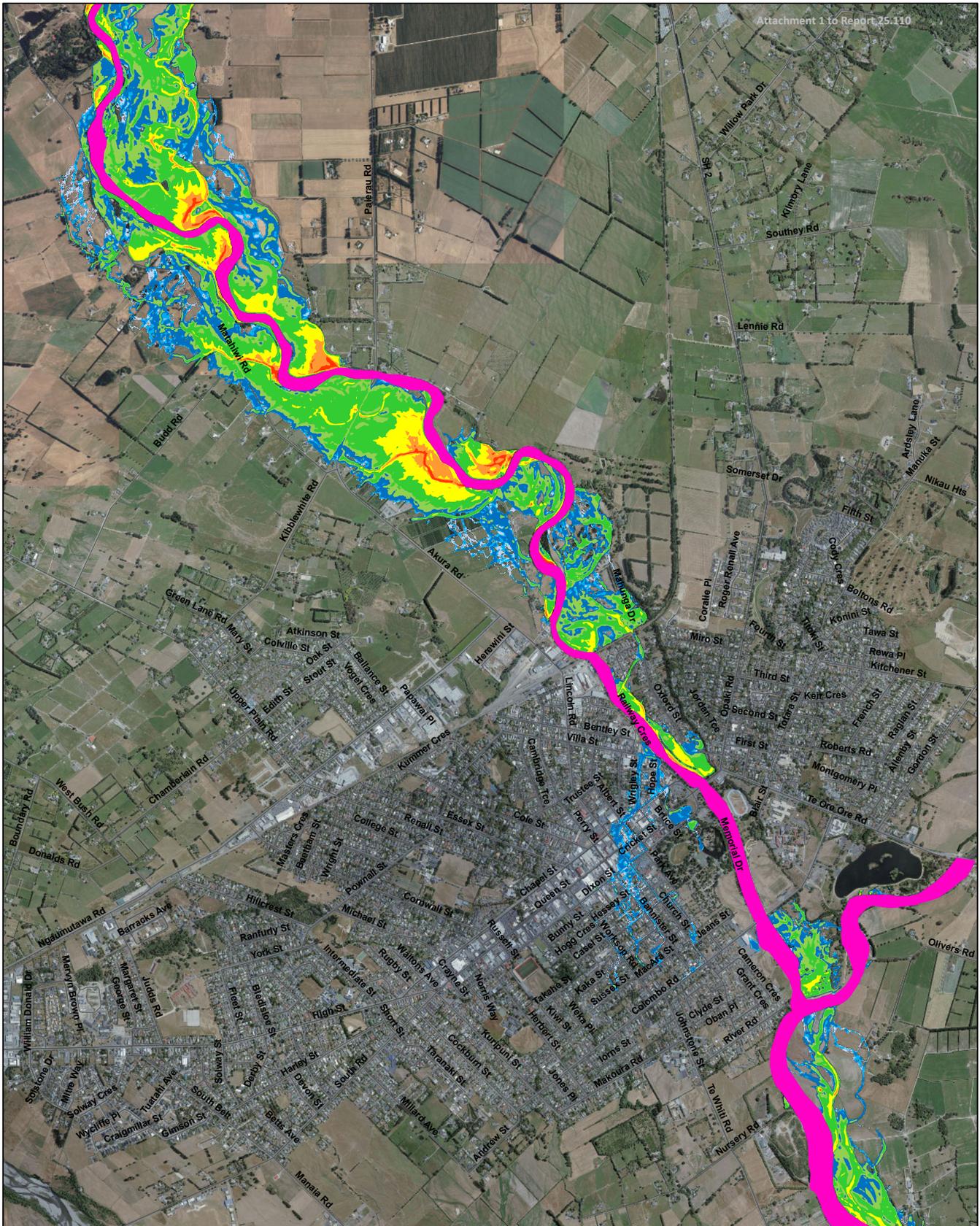
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<p>PROJECT Waipoua River Flood Modelling</p>	<p>Legend</p> <ul style="list-style-type: none"> █ 1D Channel — Roads Peak water depth(m) 0 0 - 0.05 0.05 - 0.1 0.1 - 0.3 0.3 - 0.5 0.5 - 1 1 - 1.5 1.5 - 2 2+ 		<table border="1"> <tr> <td>REVISION</td> <td>01</td> </tr> <tr> <td>DATE</td> <td>26/02/2023</td> </tr> <tr> <td>A3 SCALE</td> <td>1:22,000</td> </tr> <tr> <td>CREATED BY</td> <td>BS</td> </tr> <tr> <td>REVISED BY</td> <td>MG</td> </tr> </table>	REVISION	01	DATE	26/02/2023	A3 SCALE	1:22,000	CREATED BY	BS	REVISED BY	MG		
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<p>MAP 2 of 2</p> <p>PEAK DEPTH MAP</p> <p>10% AEP Flow, Future Climate (RCP6)</p>				<p>Model Information: Coordinate System: New Zealand Transverse Mercator Vertical Datum: Wairarapa Local Datum</p>											
<p>AUTHOR Matthew Gardner</p>				<p>Model Completed:</p> <p>Copyright: This work is licensed under the Creative Commons Attribution-NonCommercial 4.0 International License. To view a copy of this license, visit http://creativecommons.org/licenses/by-nc/4.0/</p>											



<p>PROJECT Waipoua River Flood Modelling</p>	<p>Legend</p> <ul style="list-style-type: none"> █ 1D Channel — Roads Peak water depth(m) 0 █ 0 - 0.05 █ 0.05 - 0.1 █ 0.1 - 0.3 █ 0.3 - 0.5 █ 0.5 - 1 █ 1 - 1.5 █ 1.5 - 2 █ 2+ 		<table border="1"> <tr> <td>REVISION</td> <td>01</td> </tr> <tr> <td>DATE</td> <td>26/02/2023</td> </tr> <tr> <td>A3 SCALE</td> <td>1:22,000</td> </tr> <tr> <td>CREATED BY</td> <td>BS</td> </tr> <tr> <td>REVISED BY</td> <td>MG</td> </tr> </table>	REVISION	01	DATE	26/02/2023	A3 SCALE	1:22,000	CREATED BY	BS	REVISED BY	MG		
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PROJECT
Waipoua River Flood Modelling

MAP 2 of 2

PEAK DEPTH MAP

5% AEP Flow, Future Climate (RCP6)

AUTHOR
Matthew Gardner

Legend	
—	1D Channel
—	Roads
—	Peak water depth(m)
—	0 - 0.05
—	0.05 - 0.1
—	0.1 - 0.3
—	0.3 - 0.5
—	0.5 - 1
—	1 - 1.5
—	1.5 - 2
—	2+

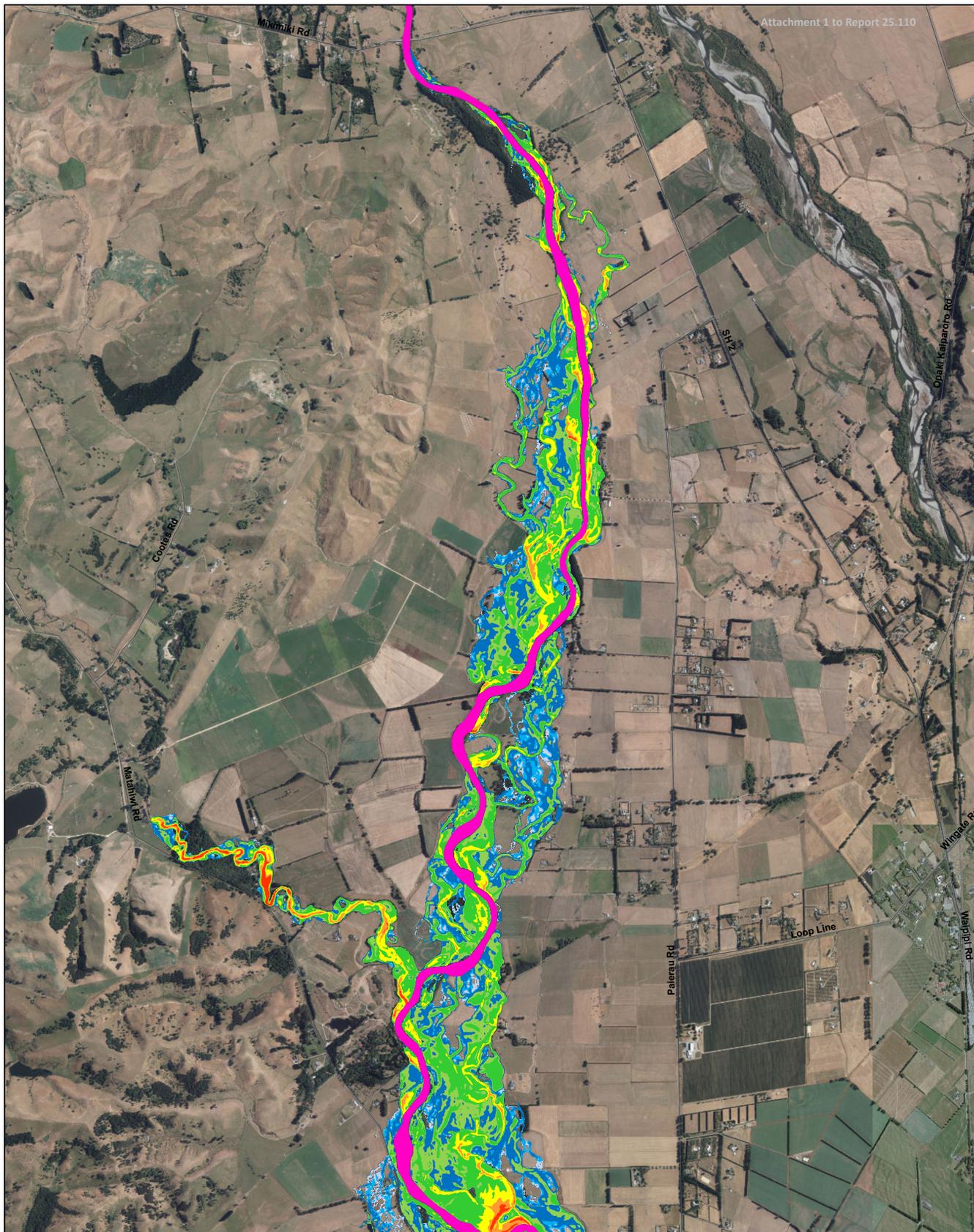


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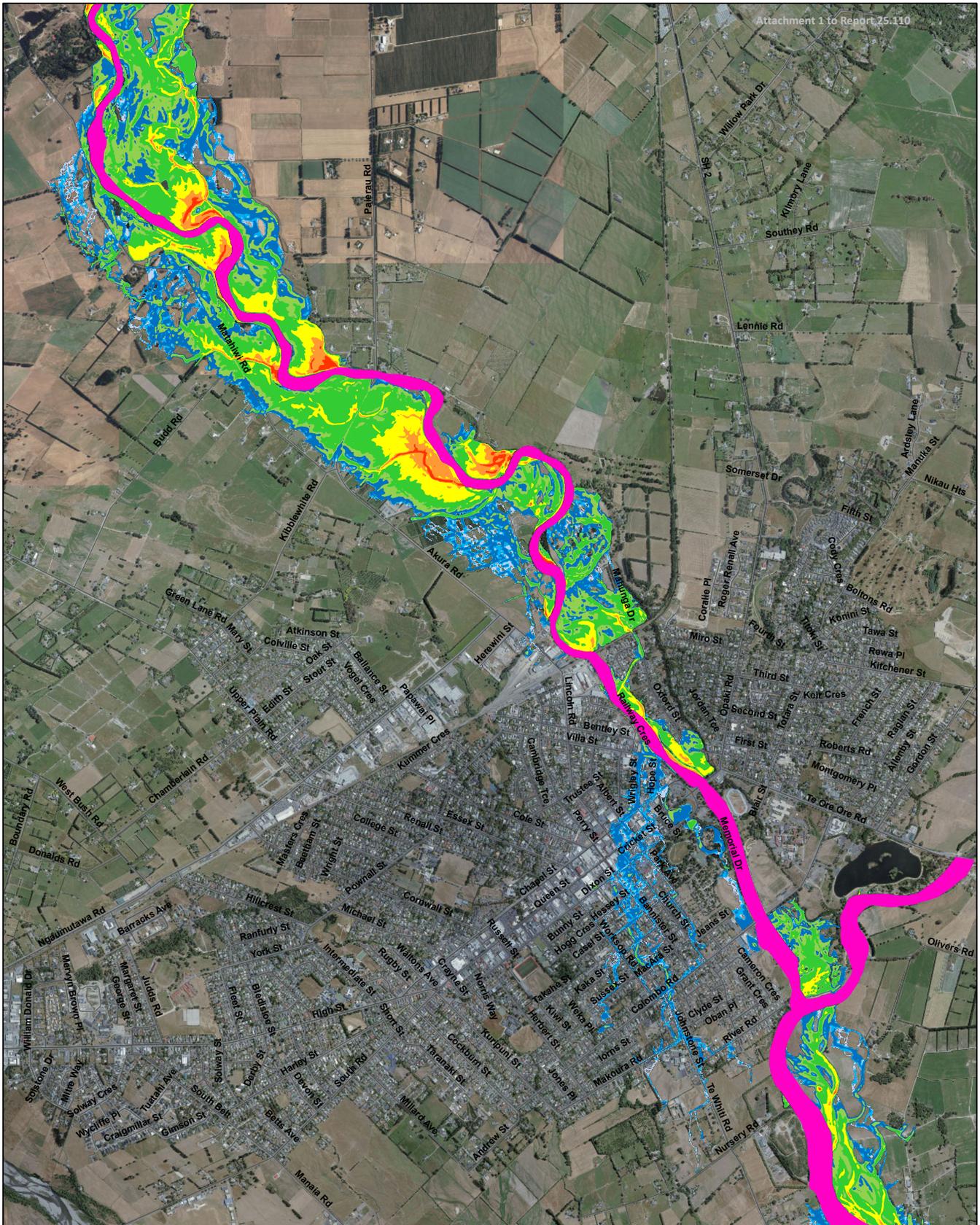
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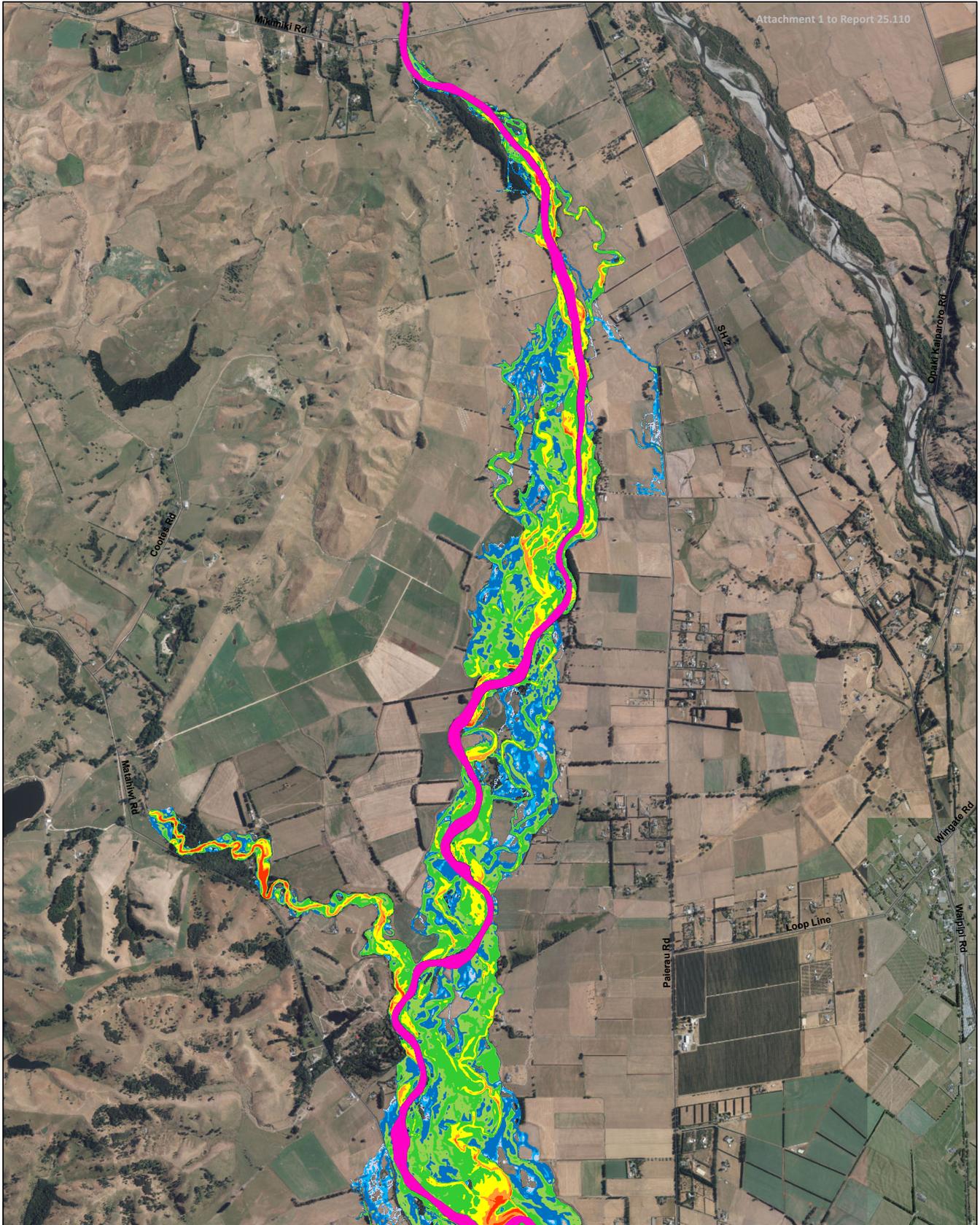


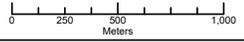
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<p>MAP 1 of 2 PEAK DEPTH MAP 2% AEP Flow, Future Climate (RCP6 - 2050)</p>	<p>LANDRIVERSEA CONSULTING</p>		<p>Greater Wellington Te Pane Matua Taiao</p>		<p>Model Information: Coordinate System: New Zealand Transverse Mercator Vertical Datum: Wairarapa Local Datum</p> <p>Model Completed: Copyright: This work is licensed under the Creative Commons Attribution-NonCommercial 4.0 International License. To view a copy of this license, visit http://creativecommons.org/licenses/by-nc/4.0/</p>										
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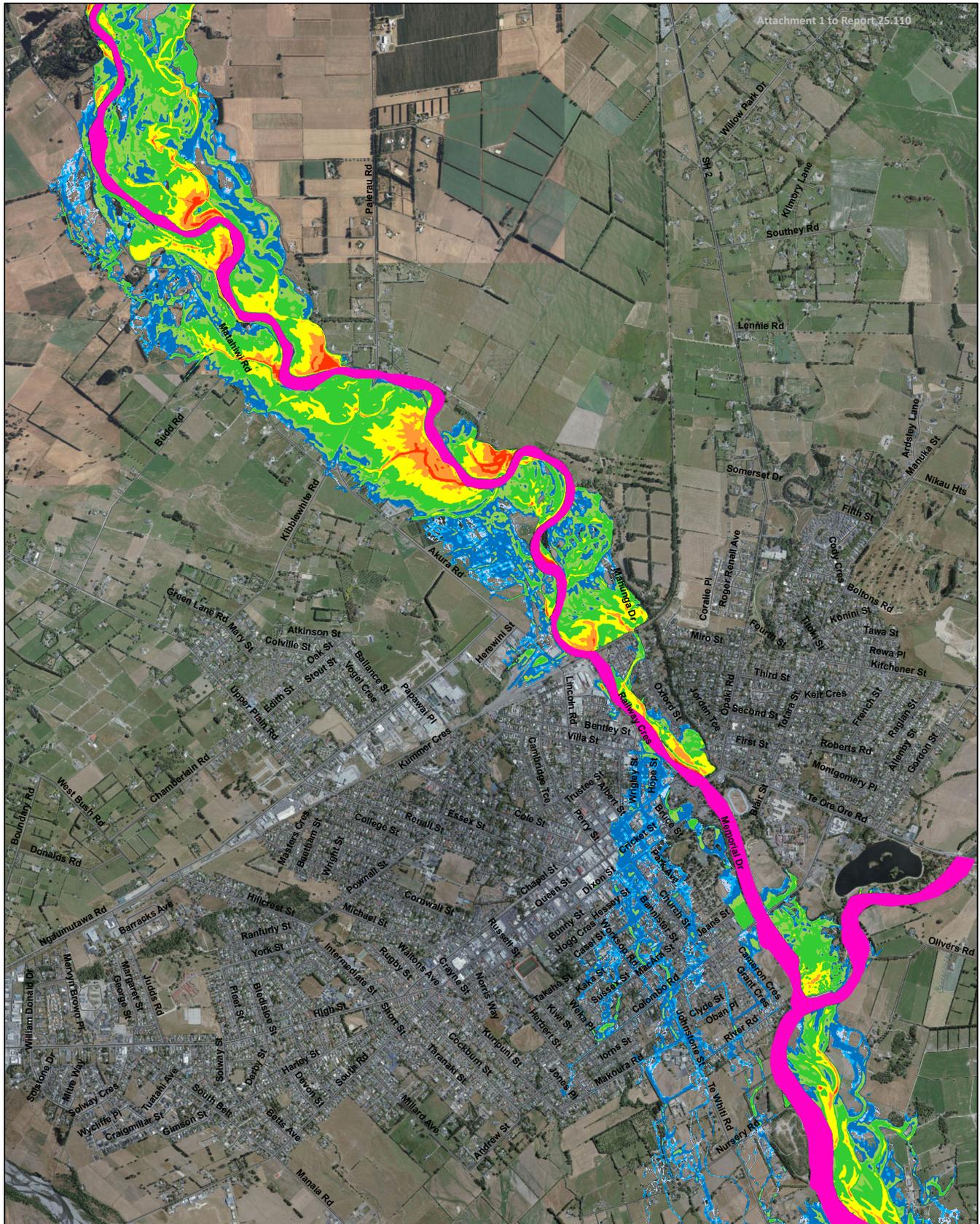


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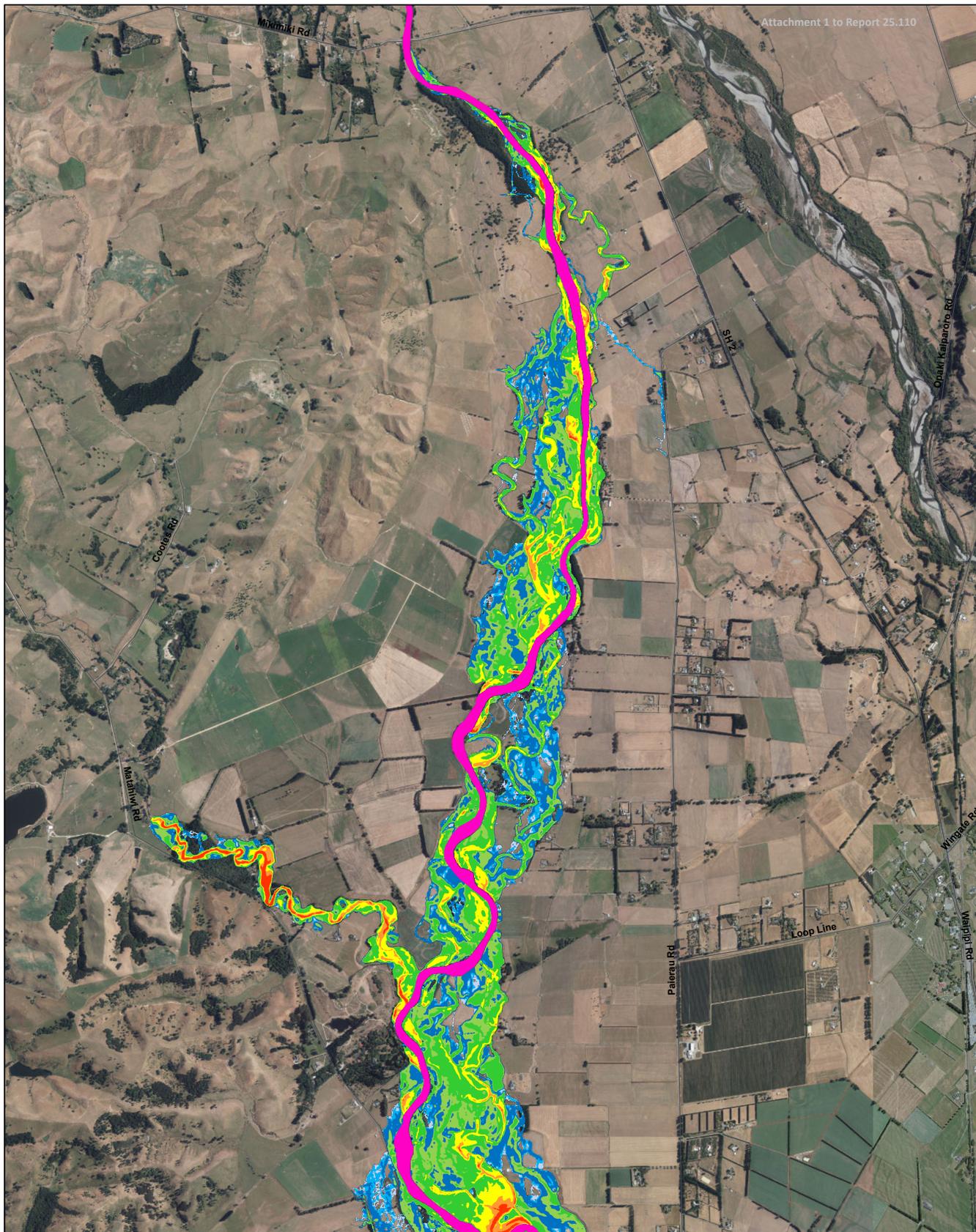
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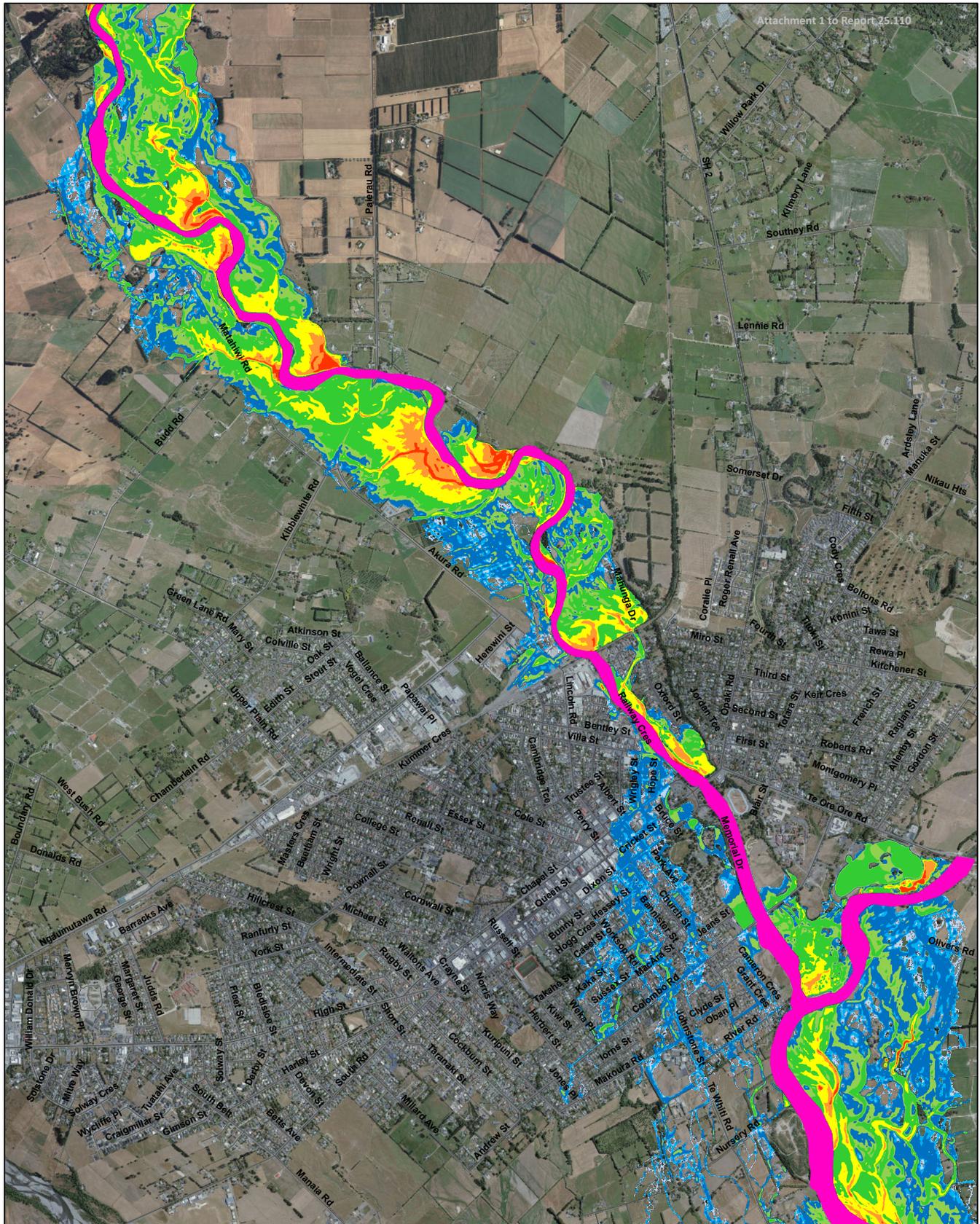
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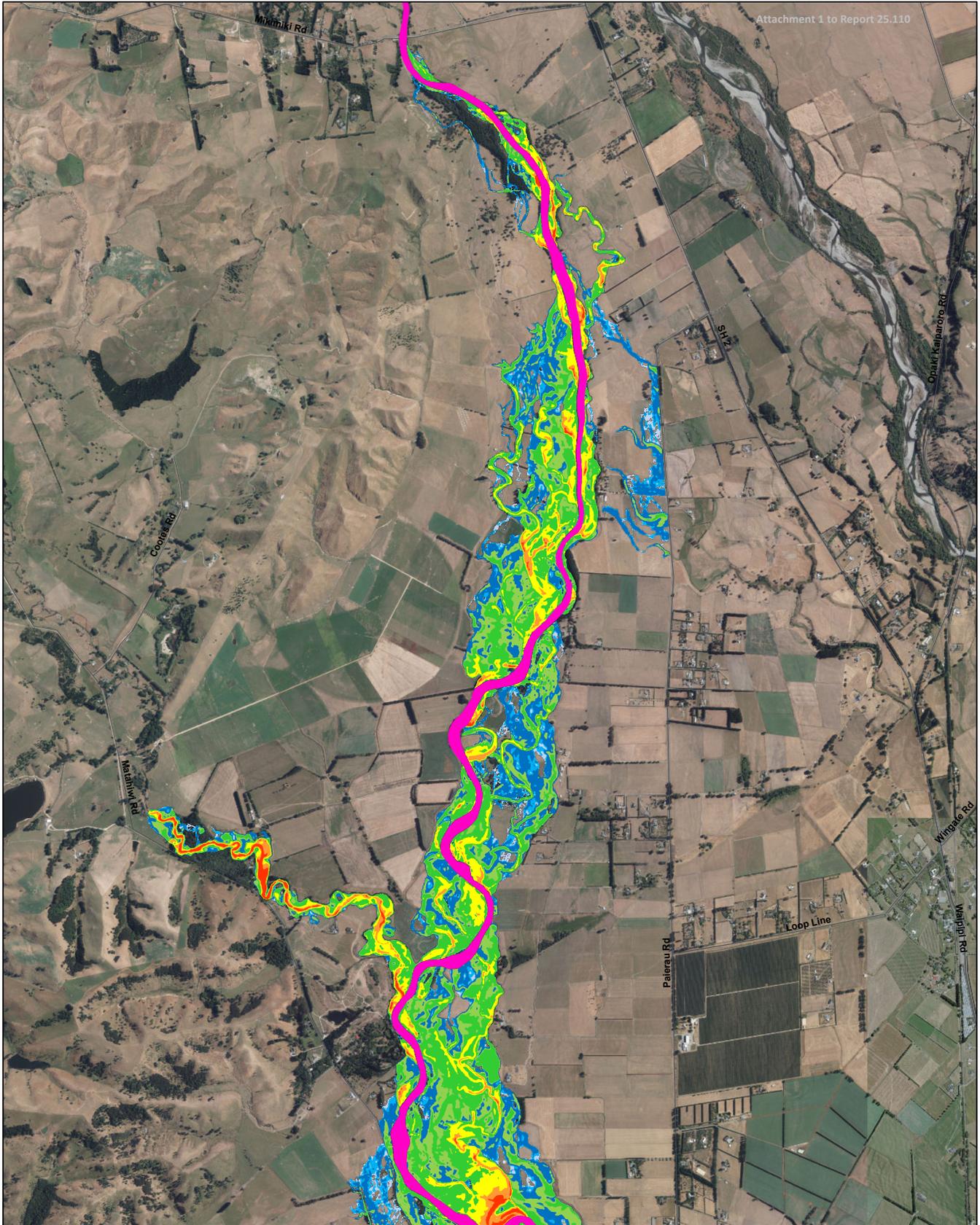
PROJECT Waipoua River Flood Modelling	Legend 		REVISION 01		
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AUTHOR Matthew Gardner			A3 SCALE 1:22,000	Model Completed: Copyright: This work is licensed under the Creative Commons Attribution-NonCommercial 4.0 International License. To view a copy of this license, visit http://creativecommons.org/licenses/by-nc/4.0/	
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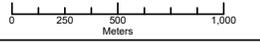
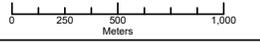
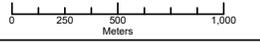


<p>PROJECT Waipoua River Flood Modelling</p>	<p>Legend</p> <ul style="list-style-type: none"> █ 1D Channel — Roads Peak water depth (m) 0 0 - 0.05 0.05 - 0.1 0.1 - 0.3 0.3 - 0.5 0.5 - 1 1 - 1.5 1.5 - 2 2+ 		<table border="1"> <tr> <td>REVISION</td> <td>01</td> </tr> <tr> <td>DATE</td> <td>1/03/2023</td> </tr> <tr> <td>A3 SCALE</td> <td>1:22,000</td> </tr> <tr> <td>CREATED BY</td> <td>BS</td> </tr> <tr> <td>REVISED BY</td> <td>MG</td> </tr> </table>	REVISION	01	DATE	1/03/2023	A3 SCALE	1:22,000	CREATED BY	BS	REVISED BY	MG		
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<p>AUTHOR Matthew Gardner</p>															

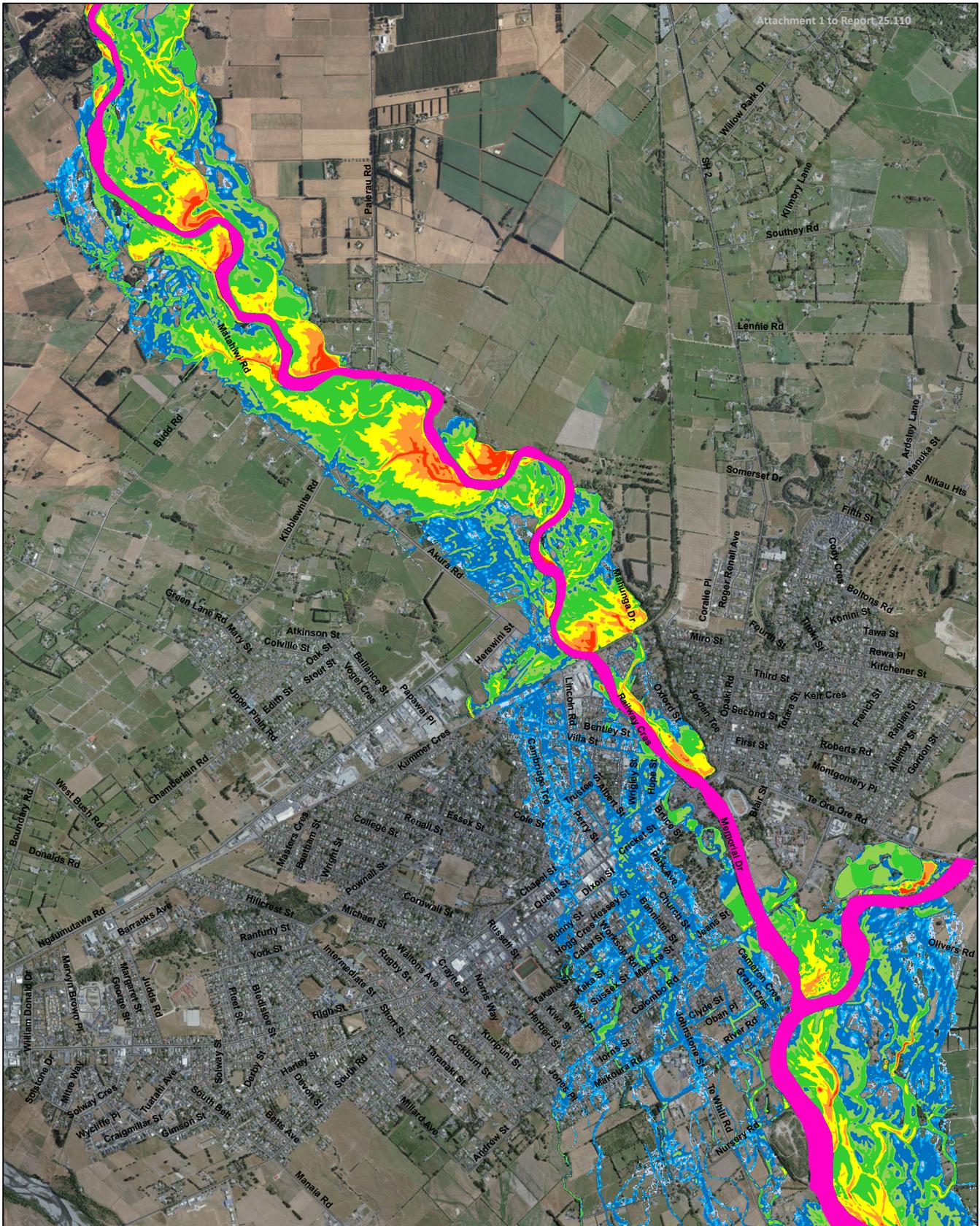


PROJECT Waipoua River Flood Modelling		Legend 		REVISION 01		
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AUTHOR Matthew Gardner				A3 SCALE 1:22,000	Model Information: Coordinate System: New Zealand Transverse Mercator Vertical Datum: Wairarapa Local Datum	
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				REVISED BY MG		

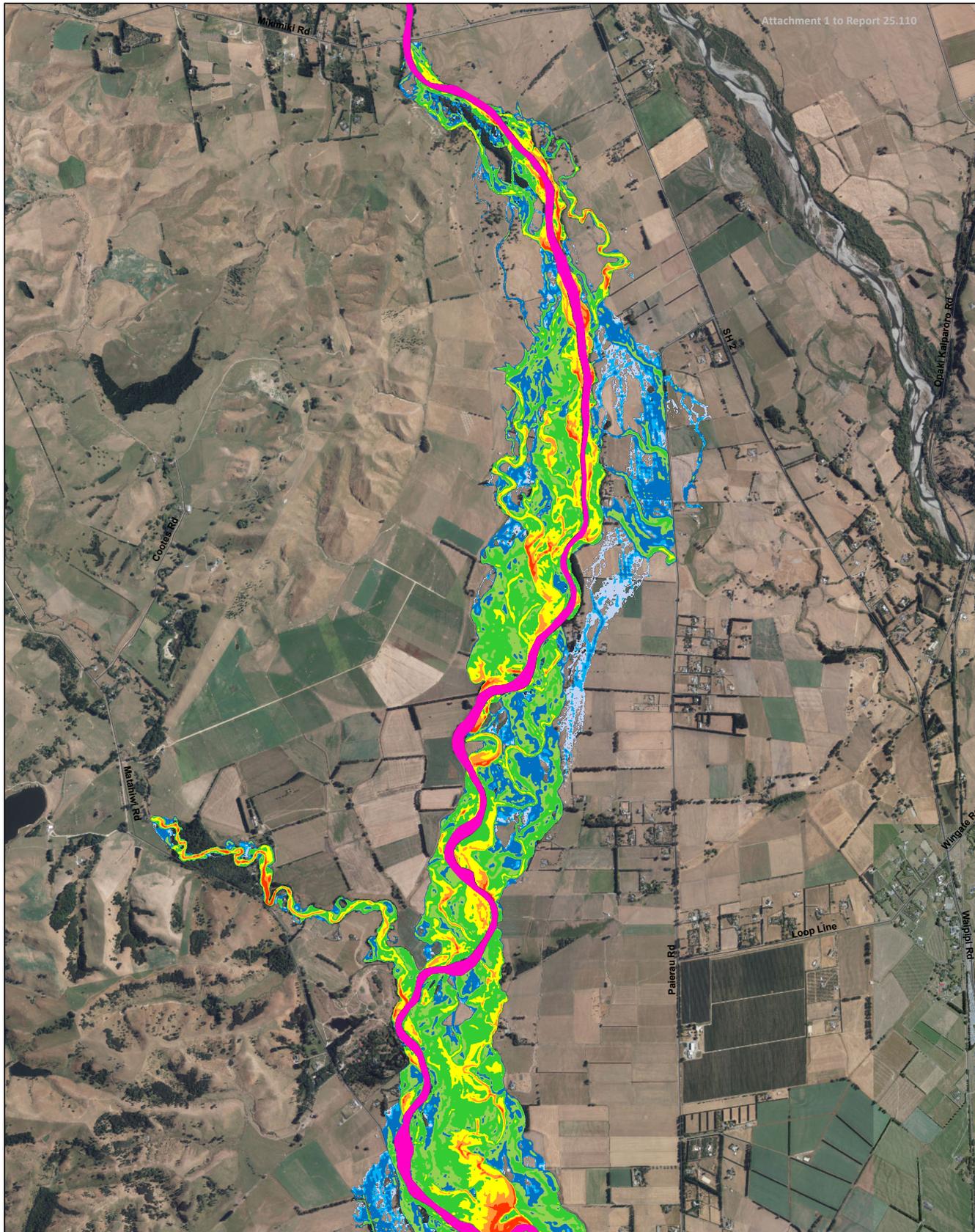


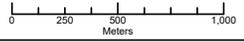
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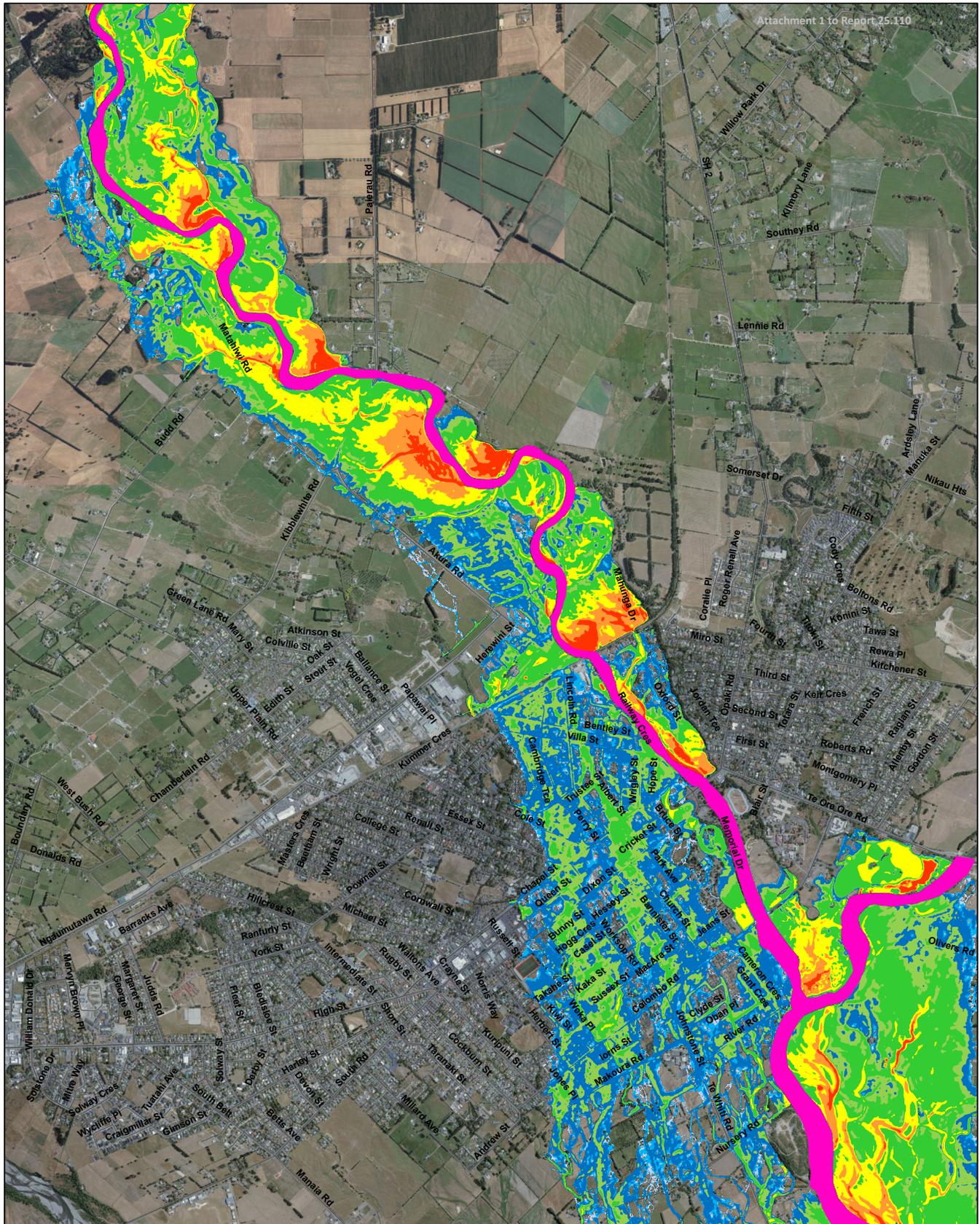
Attachment 1 to Report 25.110



PROJECT Waipoua River Flood Modelling	Legend 		REVISION 01		
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AUTHOR Matthew Gardner			CREATED BY BS	Model Information: Coordinate System: New Zealand Transverse Mercator Vertical Datum: Wairarapa Local Datum	
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<p>PROJECT Waipoua River Flood Modelling</p>	<p>Legend</p> <ul style="list-style-type: none"> █ 1D Channel — Roads Peak water depth(m) 0 0 - 0.05 0.05 - 0.1 0.1 - 0.3 0.3 - 0.5 0.5 - 1 1 - 1.5 1.5 - 2 2+ 	 <p>LANDRIVERSEA CONSULTING</p>	<table border="1"> <tr> <td>REVISION</td> <td>01</td> </tr> <tr> <td>DATE</td> <td>1/03/2023</td> </tr> <tr> <td>A3 SCALE</td> <td>1:22,000</td> </tr> <tr> <td>CREATED BY</td> <td>BS</td> </tr> <tr> <td>REVISED BY</td> <td>MG</td> </tr> </table>	REVISION	01	DATE	1/03/2023	A3 SCALE	1:22,000	CREATED BY	BS	REVISED BY	MG		
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<p>AUTHOR Matthew Gardner</p>			 <p>Greater Wellington Te Pane Matua Taiao</p>	<p>Model Completed: Copyright: This work is licensed under the Creative Commons Attribution-NonCommercial 4.0 International License. To view a copy of this license, visit http://creativecommons.org/licenses/by-nc/4.0/</p>											



Attachment 1 to Report 25.110

PROJECT
Waipoua River Flood Modelling

MAP 2 of 2
PEAK DEPTH MAP
0.1% AEP Flow, Future Climate (RCP6)

AUTHOR
Matthew Gardner

Legend
1D Channel
Roads
Peak water depth(m)
0 - 0.05
0.05 - 0.1
0.1 - 0.3
0.3 - 0.5
0.5 - 1
1 - 1.5
1.5 - 2
2+

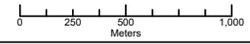
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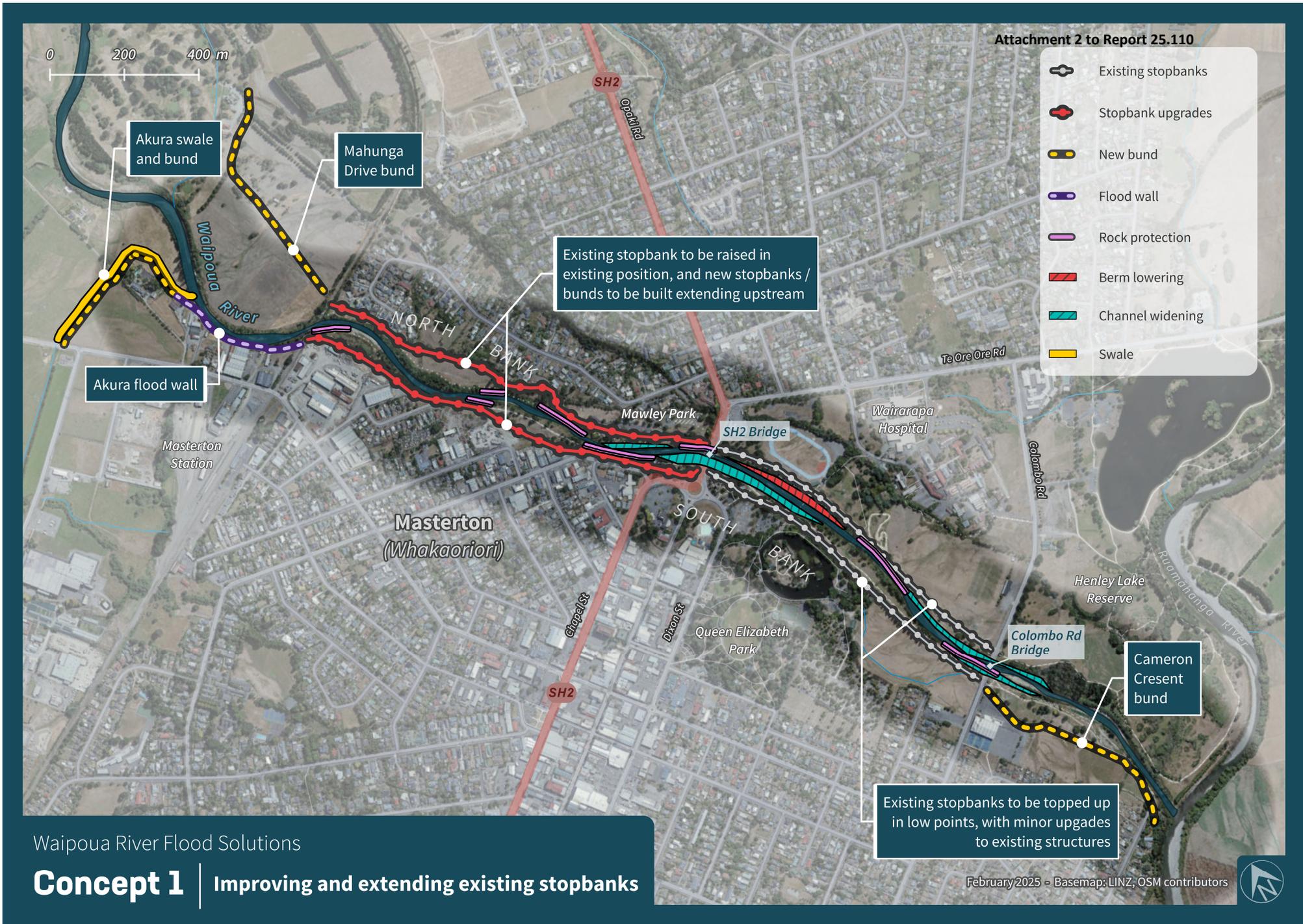
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Model Completed:

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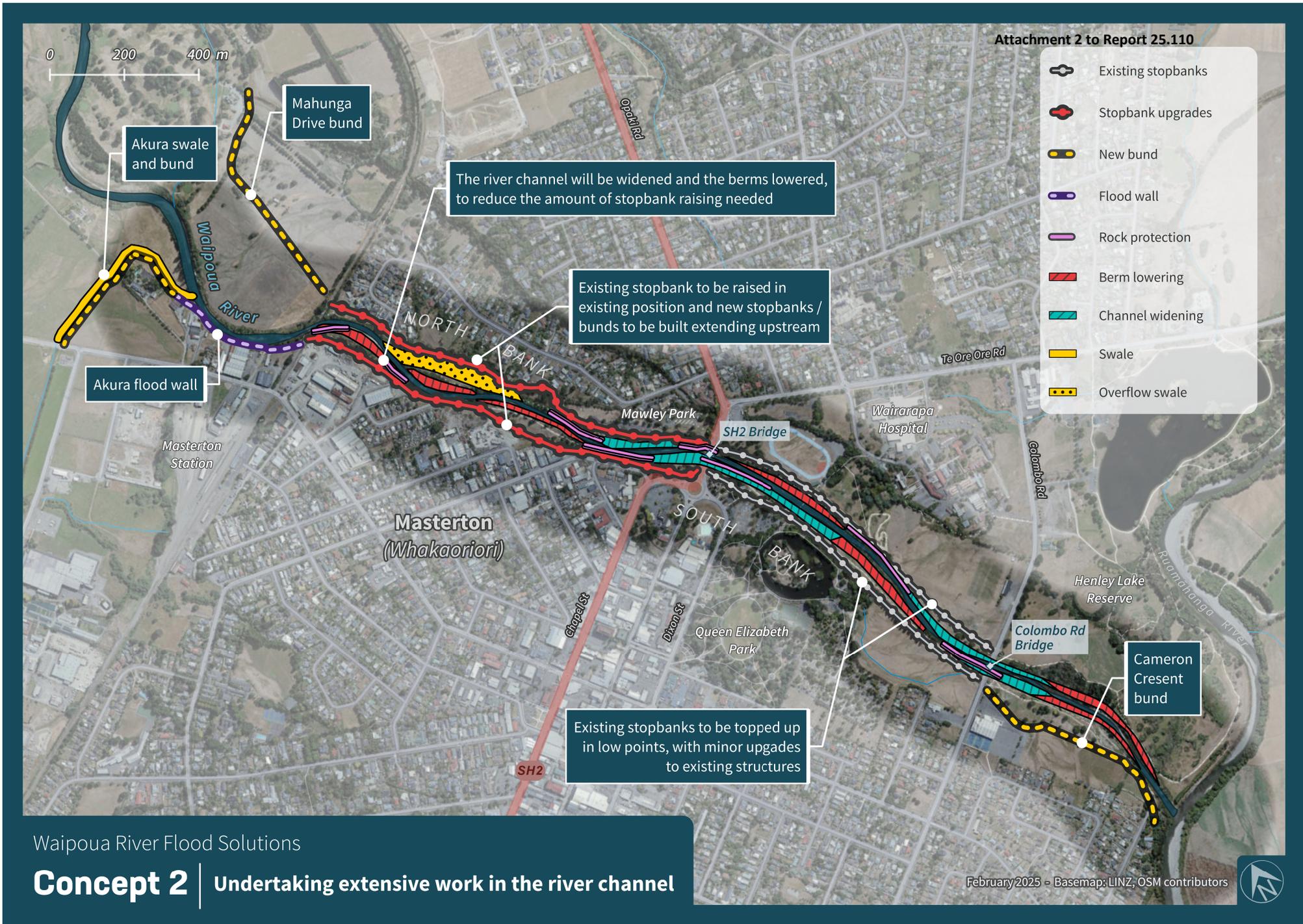


Waipoua River Flood Solutions

Concept 1 | Improving and extending existing stopbanks

February 2025 - Basemap: LINZ, OSM contributors



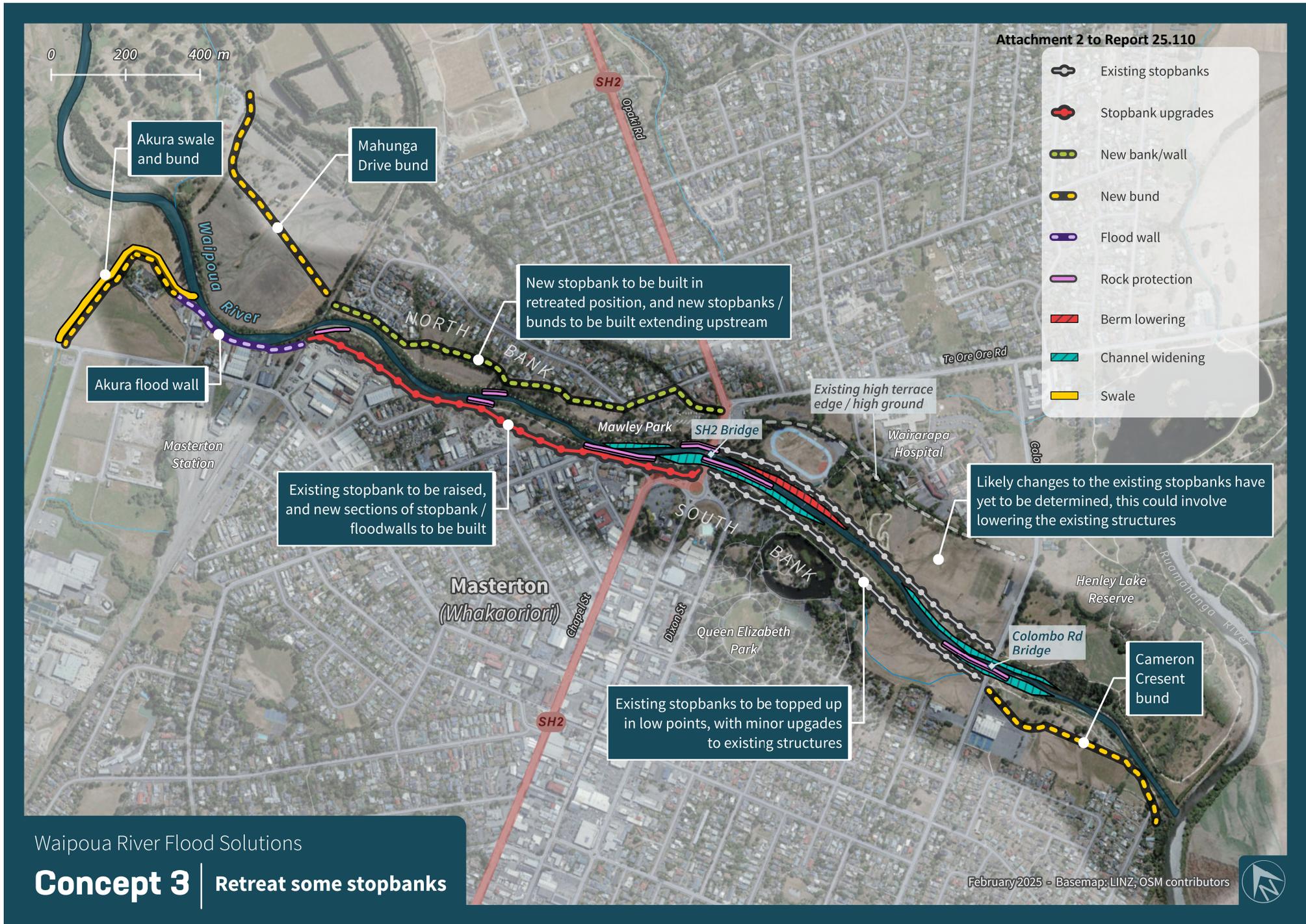


Waipoua River Flood Solutions

Concept 2 Undertaking extensive work in the river channel

February 2025 - Basemap: LINZ, OSM contributors





Waipoua Flood Risk Management Concepts



Masterton is at risk of flooding from the Waipoua River in a flood that has a 1% chance of happening in any given year. The flooding risk increases when other potential scenarios are factored in, including climate change.

Following a community meeting in 2019, a project team formed which includes Greater Wellington, members of the community and iwi.

The project team have been working to firstly define the flood risk to Masterton and then investigate possible outcomes to help manage that risk.

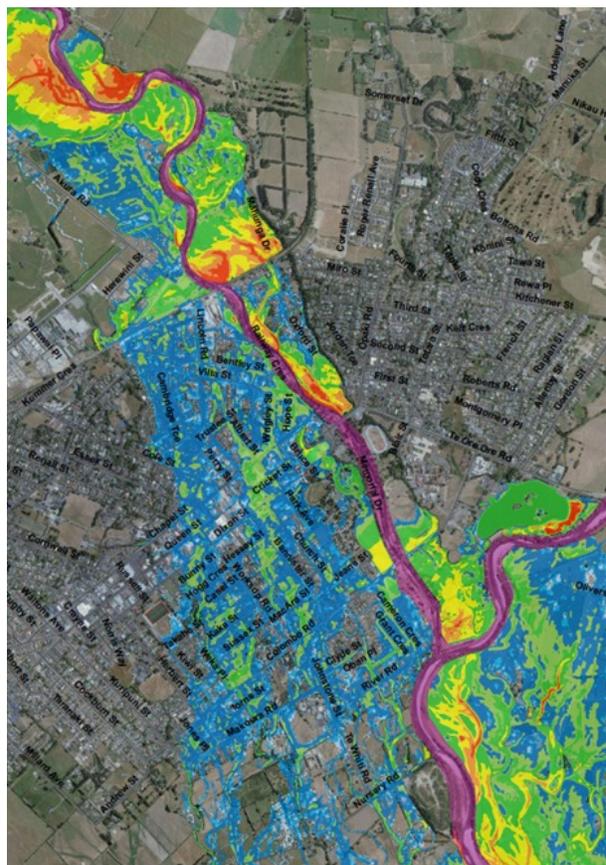
This work forms part of the Te Kāuru Upper Ruamāhanga Floodplain Management Plan.

Your knowledge is important to us, and we need your feedback on proposed concepts for managing the flood risk to Masterton’s urban area from the Waipoua River.

The final design will likely involve a combination of aspects from each of the concepts, so we want to hear from you about what you do and don’t like.

We also want to hear about your vision for the future of the Waipoua River through Masterton.

Your feedback will help inform a design to manage flood risk which incorporates the values and aims of the community while recognising the river as an integrated part of the Masterton township.



Future 1% annual exceedance probability flood (with sensitivity scenarios)

The above map models how climate change will affect the 1% chance flood through Masterton. In addition to climate change, this map also includes a variety of adverse scenarios which could affect a flood event. For example, the railway bridge being partially blocked by debris such as rocks and trees, which would impact the depth and spread of floodwater. These adverse scenarios have not been factored in all at once but rather each run through the model separately and the results merged to create a map.



Flood Management Concepts

The project team has been developing feasible concepts to manage flood risk from the Waipoua River to Masterton. The team has worked with experts, used the most up-to-date technology, and collected as much data as possible to inform these concepts.

The final design will likely involve a combination of aspects from each of the four concepts described here.

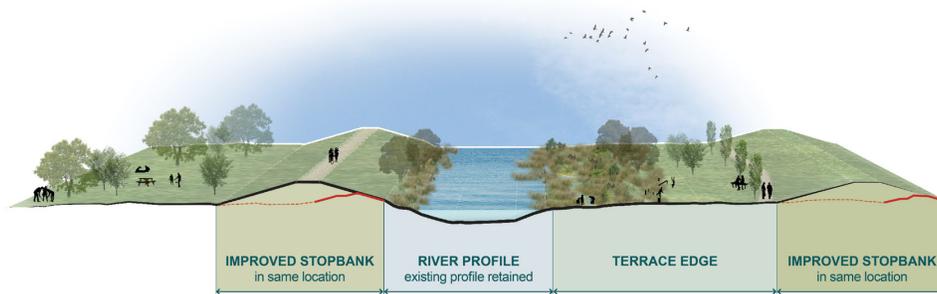
The project team has also identified four work areas that will likely need to occur to complement these concepts. These are protection works at the bridges, bunds or stopbanks to protect the Oxford Street and Cameron Crescent areas as well as a bund and a swale (a depression that collects and redirects water) to protect the Akura Road area.

Based on our current knowledge, high level estimates suggest that the cost to implement these concepts will be similar and are in the order of \$30 million. Based on current rating classification this equates to an average total rate increase of \$10 per \$100,000 CV for local Masterton rate payers. For a property with a value of \$540,000, this would be an additional \$54 per year. For regional rate payers outside of the Masterton area, the rates increase would be less than \$0.50 per \$100,000 CV.

These costs could be less if funding from central government is available.

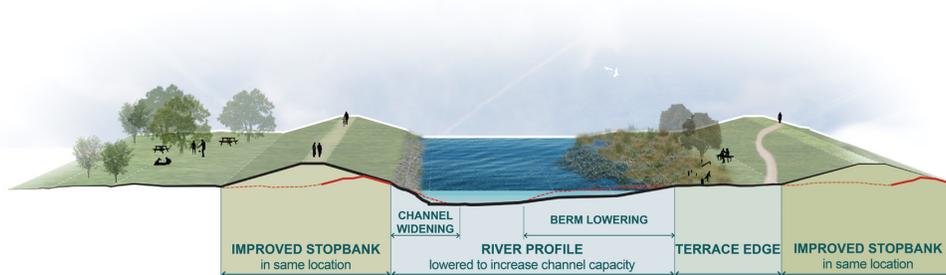
CONCEPT 1—Improve and extend the existing stopbanks

- Extend some stopbanks and make some higher than present to ensure they meet the right standards.
- Higher and longer stopbanks may restrict the river’s space to move and make people feel more disconnected to the river.
- This concept would largely utilise the footprints of the existing stopbanks.



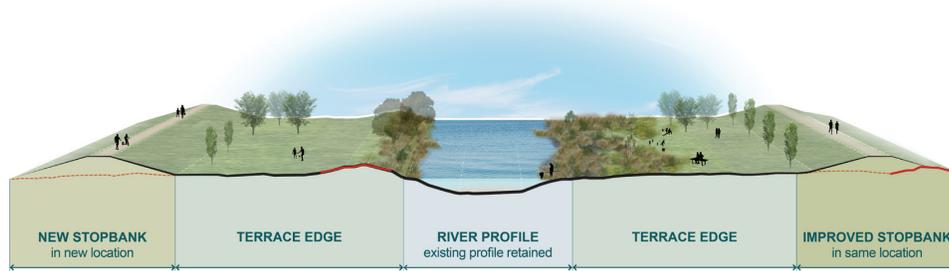
CONCEPT 2—Undertake extensive work in the river channel

- Work in and alongside the river channel to increase the capacity for flood water through town.
- Channel works would involve mechanical excavation of material in and alongside the river.
- This concept would need to be implemented in conjunction with improving existing stopbanks. Because of the channel works, stopbank improvements will not need to be as high as those proposed in Concept 1.



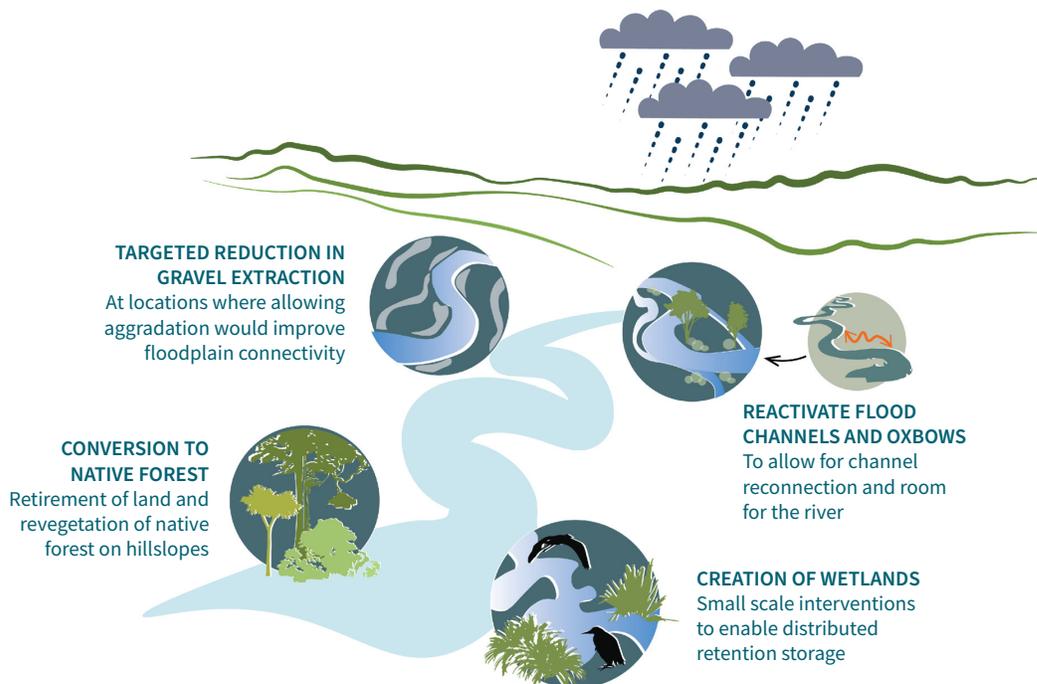
CONCEPT 3—Retreat some stopbanks

- Retreat stopbanks on the northern side of the river to give the Waipoua more room.
- Depending on the location this may mean that Mawley Park, the Sports Bowl and /or sports fields would be at risk of flooding in a large event.
- Existing stopbanks on the southern side of the Waipoua would also need to be upgraded although stopbank heights would not need to be as high as in Concept 1.



CONCEPT 4—Implement nature-based solutions in the upper catchment

- This concept proposes to use nature based solutions to reduce the river flow through town.
- There are many different types of nature-based solutions, such as planting in the river catchment, installing a network of swales and giving the river more room to move.
- It is currently unknown what kind of nature-based solution could be implemented or how much of the flood water could be retained in the upper catchment, but work is being done to investigate this.
- Different nature-based solutions have different levels of effectiveness over time. For example, swales can provide an immediate effect, while establishing vegetation can provide increasing benefits with time.
- Some nature-based solutions may require a significant area of land, which could take time to integrate into a flood risk management design.
- This concept would need to be implemented in conjunction with other flood management concepts.





Come and talk to our team

This is your chance to ask questions and provide feedback on the flood management concepts to the friendly project team.

Where you'll find us

Masterton District Library

Wednesday 26 February 10 am – 12 pm

Lakeview School, drop in and presentation

Thursday 27 February 5 - 7 pm (presentation at 5:30 pm)

Charlie's Lane (outside Paper Plus) 181 Queen Street

Saturday 1 March 10 am – 12 pm

Masterton District Library

Tuesday 4 March 2 pm – 4 pm

Wairarapa Farmers Market (Solway Showgrounds)

Saturday 8 March 9 am – 1 pm

Queen Elizabeth Park – near the carpark by the skate park

Sunday 9 March 10 am – 12 pm

Project Team:

Andrew Stewart (facilitator)
Andrew Donald
Gary Foster
Ian Gunn
Michael Hewison
Ra Smith
Daphne Te Whare

Subject matter experts
Members of Greater Wellington
Members of Masterton District
Council

We also wish to acknowledge the participation and contributions from other community members.