Ngongotahā Action Plan: A YEAR IN REVIEW







Tēnā koutou

14 months ago, the independent review panel released its report in relation to the Ngongotahā Flood Event of 29 April 2018. It included 24 recommendations.

This report documents the work carried out in 2019 by the Bay of Plenty Regional Council (BOPRC) and Rotorua Lakes Council to progress those recommendations. This work is encapsulated within 19 actions in the Ngongotahā Flood Review Action Plan, which was released in July 2019¹.

Status of actions

In summary, 11 of the 19 actions have been achieved. Six of these completed actions are ongoing.

Five actions are in progress, although running behind schedule. These actions, discussed further overleaf, relate to:

- analysis of flood mitigation options and associated engagement with the Ngongotahā Community.
- completion of the stream maintenance plan.
- establishment of the working group for the Ngongotahā Community Response Plan.
- review of the District Plan.
- construction of detainment bunds in the upper catchment.

Three actions are reliant on the completion of other actions.

Achievements for 2019

The achievements for the year include the:

• Completion of priority stream repairs from the April 2018 flood and removal of 30 large and at-risk trees from the upper catchment.

Achieved

Achieved &

Ongoing

■ In Progress

Reliant on other tasks

but behind schedule

- Establishment of the Ngongotahā Community Reference Group (CRG) to guide the dual-Council project team, particularly in relation to potential flood mitigation options and community engagement.
- Successful operation of dual-Council teams, particularly in relation to RMA planning; engineering options as well as communication and engagement.
- Completion of a number of actions which have resulted in improved internal processes and working relationship between the two Councils.

Overall the project team has worked hard to complete, or at least progress the actions to address the matters within the independent review panel report.

¹ download from http://www.rotorualakescouncil.nz/floodreview

Challenges for 2019

The Action Plan included a number of ambitious timeframes, originally intended to ensure completion of most actions by the end of 2019. However, these timeframes did not factor in:

- The complexity of work, such as the modelling of flood mitigation options or the required risk assessments before the District Plan review can commence.
- The time needed to enable community-driven action, such as establishing a working group to develop the Ngongotahā community response plan.

In the case of the upper catchment bunds, both aspects apply. The process of identifying and prioritising suitable sites has taken time. Further time is needed to engage with landowners to enable the construction of the bunds on their respective properties for the benefit of the Ngongotahā community.

It was originally intended that project communication and engagement would improve the confidence of the Ngongotahā community in RLC and BOPRC in taking action to reduce the risk and impact of another April 2019 flood event on Ngongotahā residents. For a vast majority of the community, flood risk reduction and mitigation is encapsulated in the flood mitigation options from the independent report. Delays in the delivery of these options may be eroding community confidence.

The Ngongotahā CRG have been invaluable in guiding communication and engagement; shortlisting of flood mitigation options; and, providing advice about plan actions. However, due to delays in flood modelling, they have yet to fully achieve their intended purpose. This includes reviewing, testing and fine tuning the flood mitigation options; assisting with community engagement; and, presenting the preferred options to the two councils.

Focus for 2020

The focus for 2020 is the completion of the 'in progress' actions, in particular, the analysis of, and engagement on, the flood mitigation options for Ngongotahā. Showing 'real' progress in terms of flood mitigation for the affected residents will be crucial this year.

Elva Conroy Ngongotaha Flood Review Project Co-ordinator February 2020

ROLES AND RESPONSIBILITIES

These actions are intended to clarify roles and responsibilities and improve inter-Council and public relationships, communication channels and trust.

All four actions were achieved in 2019. Actions 2-4 are ongoing, as is the implementation of the signed MOU (action 1).

| | Action | Status | Work completed | Focus for 2020 |
|----|--|------------------------------|---|---|
| 1. | Prepare and sign a formal and binding Memorandum of Understanding. (R4-6) | Achieved | MOU signed between the two Councils in July 2019. Operational policies in place: Joint Council consent referrals protocol (Action 14) Stream maintenance operational policy | Communication of roles and responsibilities to the public. Regular audit of frontline staff. |
| 2. | Improve inter-Council relationships and communication channels. (R3) | Achieved (and ongoing) | Inter-Council relationships and communication channels improved through the establishment of a dual-Council project steering group (PSG); project team and associated workstreams. | Continued operation of PSG; project team and associated workstreams |
| 3. | Improve public relationships and communication channels. (R3) | Achieved (and ongoing) | Public relationships and communication channel improved through: Establishment of the Ngongotahā Community Reference Group (CRG). Regular dissemination of information, guided by the CRG, about the project. Methods included project webpage, Ngongotahā news, Tatau Tatau magazine and leaflet drops. Significant effort put into updates at local community group meetings. Community engagement evening held with flood affected residents in August. | Operation of the CRG to guide community engagement about the flood mitigation options (1st quarter of 2020) dissemination of project information to the Ngongotahā community Timely completion of actions |

| | Action | Status | Work completed | Focus for 2020 |
|----|---|------------------------|---|---|
| 4. | Provide and plan for good quality local flood control and stormwater infrastructure in the Ngongotahā Catchment. | Achieved (and ongoing) | Completion of priority: repairs to the banks Ngongotaha Stream. repairs and enhancements to existing flood control assets (e.g. stopbanks). improvements to stormwater infrastructure (e.g. flap gates). | RLC to review its 30-year Infrastructure Strategy. Both Councils to review and update their respective Asset Management Plans. Long Term Plan funding secured for flood mitigation options. |
| | | | Funding secured through the annual plan process of both Councils. | |



STREAM REPAIRS AND MAINTENANCE

These actions relate to the repair and long term maintenance of the Ngongotahā Stream and associated flood and erosion control structures. A large amount of physical works (actions 5 and 6) have been carried out over the last year. The stream maintenance plan (action 7) is still in progress.

| Action | Status | Work completed | Focus for 2020 |
|---|------------------------|--|---|
| Action | Graios | Work completed | 1 0 0 0 3 101 2 0 2 0 |
| 5. Continue stream repairs and maintenance for the Upper Kaituna Scheme - up to SH 5. (R1, R12) | Achieved (and ongoing) | Over the 18 months since the April 2018 flood, 75 of the highest risk/priority sites were repaired. This included: Erosion repairs carried out behind Parawai Marae At the Ngongotahā Stream mouth: 150m of stopbank rebuilt (left and right banks) and rock armouring of the left bank. Where needed: banks battered back and stabilised with rock and/or native grasses. selective vegetation management (including bamboo) using tree shear and grab. removal of large at-risk vegetation. repairs to undercut banks e.g. Taui street. re-establishment) of access for ongoing maintenance works. 6,000 plants planted to stabilise erosion repair sites within Ngongotahā 4,800 tonne of graded rock spawls utilised for rock armouring purposes. BOPRC also appointed a permanent position to oversee stream repairs and ongoing maintenance. | Continued stream repairs and maintenance, in line with the stream maintenance plan and annual work programme. |

| A | ction | Status | Work completed | Focus for 2020 |
|----|--|---------------------------------------|---|---|
| 6. | Tree and channel clearance upstream of State Highway 5. (R1, R12) | Achieved (and ongoing) | In October, 30 large high- priority trees were removed from the banks of the Taurangamiromiro Stream. This was followed by a community planting day. Drone survey completed for part of the upper catchment (Taurangamiromiro Stream, from Relph Road to the Lion Park). | Updated stream survey to confirm number and priority of trees for removal. Continued removal of high priority trees. |
| 7. | Develop Stream Maintenance Plan. (R9, R14-16) | In Progress, behind schedule | Draft plan was due December 2019. This action commenced late due to the need to prioritise physical works. Stream maintenance plan scoped in October 2019. Plan drafting commenced in December 2019 and is almost complete. | Completion and implementation of Stream Maintenance Plan. |







Elliot Park

ENGINEERING, MODELLING AND OPTIONS

These actions relate to the technical assessment to guide and support the selection of flood mitigation options for the Ngongotahā catchment. The process of shortlisting and analysing the flood mitigation options has taken longer than expected, however this highlights the complexity of the work.

| A | ction | Status | Work completed | Focus for 2020 |
|----|--|---|--|--|
| 8. | Identify and assess potential flood mitigation options. This includes: - Improvements to existing structures Identification of new / additional structures. (R1, R17, R18) | In Progress, behind schedule | Potential flood mitigation options have been identified and confirmed with the Ngongotahā Community Reference Group. The shortlisted options were included in communication material in August and December 2019. The flood model has been calibrated, mirroring the breakout points for the April 2018 event. The analysis of flood mitigation options (individual and combined) is underway. It is a slow and complex process. For this reason, engagement with the Ngongotahā community could not occur before December 2019. | Completed modelling of flood mitigation options. Public consultation, guided by the Community Reference Group, on the flood mitigation options. |
| 9. | Develop, action and monitor a comprehensive flood risk management plan for the Ngongotahā Catchment. (R1, R7, R9-R13) | In Progress, reliant on completion of other actions | This plan comprises the outputs of multiple workstreams. Other than the emergency management plan, each of these outputs (e.g. stream maintenance plan, flood mitigation options, district plan review) are in progress. | Development of a draft flood risk management plan, once workstream outputs are complete. |

CIVIL DEFENCE AND READINESS

These actions are intended to ensure that the Ngongotahā and Paradise Valley communities are prepared, and agencies are well-coordinated, should there be another extreme weather event. Two of the actions have been achieved. The community response plans are still pending and rely heavily on the availability of local community members to lead the plan development process.

| Action | Status | Work completed | Focus for 2020 |
|--|------------------------------|---|---|
| 10. Coordinate Community Response Plans for the Ngongotahā Township and Paradise Valley Community. (R23) | In Progress, behind schedule | Working group established for Paradise Valley Community Response Plan. This action is categorised as 'behind schedule' as the working groups were not established by December 2019. There is interest in a Ngongotahā Community Response Plan but, despite efforts from staff, a working group has yet to be established. In this case, the successful implementation of Action 10 is reliant on community-led action, supported by Councils. | Continued efforts to identify local champions to form a working group for the Ngongotahā Community Response Plan. Completion of the Community Response Plans for Ngongotahā and Paradise Valley. |
| 11. Develop an Emergency Management Plan. (R22) | Achieved | The inter-agency evacuation plan has been completed. | Communication of information to the Ngongotahā community (linkage with Action 12). |
| 12. Communicate civil defence information regularly to the Ngongotahā community. (R23) | Achieved (and ongoing) | Red Cross/RLC/Civil Defence event (Community Outreach Activation) held on 16 June. 272 homes visited, with civil defence information left with residents or in letterboxes. 137 residents answered Civil Defence questions about emergency preparedness. | Continued communication of civil defence information to the Ngongotahā community. |

| Action | Status | Work completed | Focus for 2020 |
|--------|--------|--|----------------|
| | | Civil Defence staff had a stand at the community engagement evening with flood affected residents in August. Also refer communication methods in Action 3. | |

Ngongotaha Welfare Outreach Activation,

16 June 2019









Do you have a family emergency plan? 54% replied No Do you have a 'grab bag'? 52% replied no

RMA PLANNING AND CONSENTS

These actions are intended to ensure that robust planning and land use controls are in place to manage land use and development in areas at risk of flooding.

There have been improvements to internal and inter-Council processes through formalised agreements. The District Plan review is still in progress.

| | Action | Status | Work completed | Focus for 2020 |
|-----|---|----------|---|---|
| 13. | Formalise an agreed internal RLC process for land development proposals within the Ngongotahā catchment. (R8) | Achieved | Internal RLC process has been formalised. All subdivision and land development proposals within the Ngongotahā Catchment are assessed by way of a risk matrix. Flood risk assessment requirements are outlined early in the development process. | Continued implementation of internal RLC process. |
| 14. | Formalise an agreed process for Regional Council review of District Council subdivision and consent applications. (R1) | Achieved | Referrals protocol in place for BOPRC to assess all RLC subdivision and resource consent applications within the Ngongotahā Catchment. | Continued implementation of referrals protocol. |
| 15. | Review Council's Engineering Code of Practice. (R21) | Achieved | Review completed. RLC is adopting the Waikato Regional Infrastructure Technical Specification (RITS) identified as most appropriate approach (subject to amendments). Engagement with consultant community about a modified RITS was positive. RITS already in use for longer term contracts. | Amendment of RITS (particularly earthworks and geotechnical section) to reflect Rotorua context, RLC standards and best practice. On completion, Council to formally adopt RITS. |

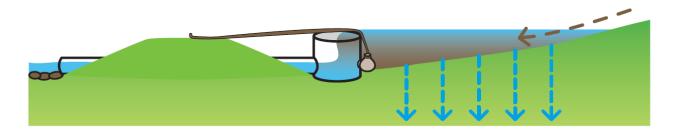
| | Action | Status | Work completed | Focus for 2020 |
|-----|---|---|--|---|
| 16. | Review the District Plan. (R1, R19, R20) | In Progress, behind schedule | Geographic scope of plan review confirmed: district-wide, not just focused on the Ngongotahā catchment. This action is behind schedule due to the need for additional risk assessments to satisfy Regional Policy Statement requirements relating to Natural Hazards (Plan Change 2). A dual-Council group has been established to ensure that the plan review process is robust. This includes developing and reviewing current urban flood hazard catchment models for the flood risk assessments to, in turn, inform the plan review. | Completed risk assessments for key urban catchments within the Rotorua District. Completion of a District Plan efficiency and effectiveness report. Confirmation of scope of Plan change. |
| 17. | Prepare and notify a Plan Change. (R19, R20) | Pending, reliant on completion of other actions | This action is pending the completion of Action 16. | This action is pending the completion of Action 16. |
| 18. | Assist with scoping resource consent requirements for physical works. | Pending, reliant on completion of other actions | This action was not applicable for 2019. | Scoping to occur with the analysis of flood mitigation options. |

UPPER CATCHMENT CONSIDERATIONS

These actions relate to the area upstream of State Highway 5. The removal of 30 large and at-risk trees was a significant achievement for the upper catchment. A lot of work has been happening with the Paradise Valley Catchment Group and Umurua Catchment landowners, such as water quality monitoring and scoping initiatives for improved land use and/or retention of stormwater and nutrients. This includes investigating the use of detainment bunds and land use change.

| rivestigating the use of detail them builds and land use change. | | | | | |
|---|------------------------------|--|---|--|--|
| Action | Status | Work completed | Focus for 2020 | | |
| 19. Progress detainment bund project (R1, R12) | In Progress, behind schedule | Detainment bunds are a shortlisted flood mitigation option. 135 potential sites identified for Umurua Catchment. Prioritisation exercise for the Umurua Catchment completed. 19 sites identified as most effective for stormwater attenuation and water quality benefits. This action is categorised as 'behind schedule' as the detainment bunds were not established by December 2019. However, it is important to note that the completion of this action relies on willing landowners. | Work with the five Umurua landowners to secure buyin for the construction of detainment bunds on their properties. | | |
| Relevant actions from | otner workst | | | | |
| 6. Tree and channel clearance upstream of State Highway 5. (R1, R12) | Achieved (and ongoing) | In October, 30 large high- priority trees were removed from the banks of the Taurangamiromiro Stream. This was followed by a community planting day. | Updated stream survey to confirm number and priority of trees for removal. Continued removal of high priority trees. | | |
| | | Drone survey completed for part of the upper catchment (Taurangamiromiro Stream, from Relph Road to the Lion Park). | | | |

| Action | Status | Work completed | Focus for 2020 |
|--|---------------------------------------|---|--|
| 10. Coordinate Community Response Plans for the Ngongotahā Township and Paradise Valley Community. (R23) | In Progress, behind schedule | Working group established for Paradise Valley Community Response Plan. A lot of interest for a Ngongotahā Community Response Plan but a working group has yet to be established. For this reason, this action is categorised as 'behind schedule' as the working groups were not established by December 2019. | Establishment of working group for the Ngongotahā Community Response Plan. Completion of the Community Response Plans for Ngongotahā and Paradise Valley. |





Example of a detainment bund