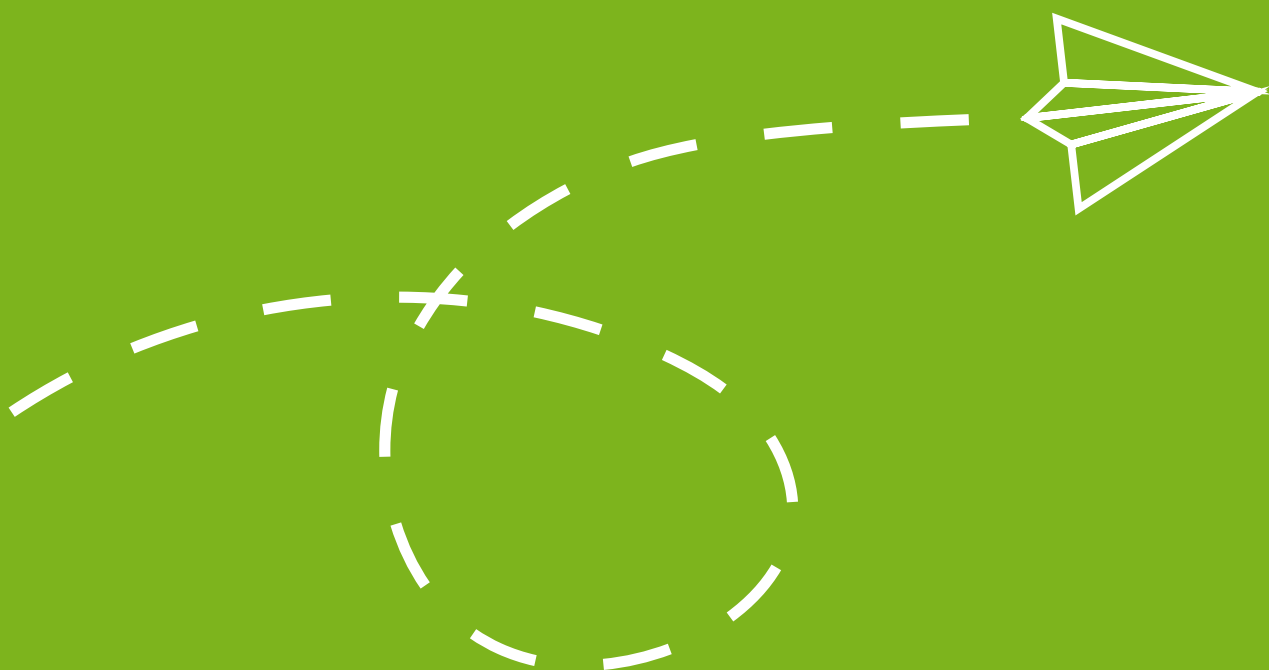




PART 04: Wāhanga 04

Me Pēhea Mātou e Whakahaere Tūāhanga

HOW WE MANAGE INFRASTRUCTURE



Wāhanga 04: Me Pēhea Mātou e Whakahaere Tūāhanga

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Whakarāpototanga Tumu Whakarae

EXECUTIVE SUMMARY

The Infrastructure Strategy for Tararua District Council (TDC) 2024-2054 sets out Council's strategic direction for delivery of our key services and the infrastructure assets that support them, over the next 30 years.

Infrastructure delivery for the Tararua District requires a broad view supported by many narrow ones to ensure the strategic drivers and big picture outcomes of the district are achieved by the individual decisions that are made.

Infrastructure is not noticed when it is working well. The public have a basic expectation that the services they use will just work and that it won't impact their day to day lives. There is not a conscious thought about whether their tap will supply water or that their toilet will flush or that they can drive to their workplace or walk their children to school on a footpath.

As managers of the infrastructure that our community expects to just be there, it is our role to ensure it meets certain minimum standards (Levels of Service) in a way that has the least impact on them – it is reliable and delivered in a way that is resilient to external forces climate change and natural hazards, is safe for all, that looks after our environment while planning for district growth and is delivered in an affordable manner. The team making those decisions on how best to utilise the resources available to them do so with many challenges, constraints and assumptions.

Affordability of the delivery of our infrastructure is an overarching constraint. The maintenance and renewals decisions need to be timed and made in a way that maximises the life of the assets and therefore results in a sustainable level of investment to supply the service. For example, if we have a weather board house we know at some point it will need to be repainted

– if we paint it too early we'll be effectively be wasting some of the remaining life the original paint still had but if we leave it too late we'll have repairs we'll have to do first costing us more than it should have and the only way we can know where that sweet spot is, is by monitoring it. Our assets require the same attention and decision making through proper Lifecycle Management. By collecting data on our assets and their condition we can work to get the timing right – do we do a bit of minor maintenance now to save having to do a full renewal for a bit longer or has it been left too long, and we're forced to replace it. Though we know more about some assets than others, our overall picture is one of highly aged assets with a significant number in poor condition and so a considered strategy is required to ensure we look after our existing assets through demand management (e.g. leak minimisation) as well as just repairing issues.

Alongside this core asset management approach, adaptability to changes in external factors is required. A change in government and subsequent water reform change along with the introduction of a new waters regulator (Taumata Arowai) has resulted in legislative change and new targets to be compliant which alongside existing consent conditions creates a challenging operating environment. It is therefore important that risk management occurs, and prioritisation is performed to optimise the work done to focus on areas that are the most important.

All of this is performed with a level of uncertainty. The change of central government and the subsequent modifications underway of the direction for transport through the Government Policy Statement on Land Transport (GPS) and Water through Local Water

Done Well makes some strategic direction making a moving target until it is finalised well after this document is written. With Waka Kotahi NZTA's National Land Transport Programme not finalised at the time of writing, this means there is a level of uncertainty around Council's Roding subsidy it will receive for the next three years. This has driven some assumptions into this Infrastructure Strategy and into the decision-making processes the team are currently using.

A key assumption is related to the Waka Kotahi NZTA three year funding block allocation. The application to Waka Kotahi NZTA for the three year funding for \$72m for the three years but

based on informal feedback from them we have adjusted the number to the \$60m amount used in this document and the Long Term Plan to reflect what we're likely to have approved and once that number is confirmed we will adjust the Roding Asset Management Plan, the Infrastructure Strategy and Long Term Plans to show that. The other main assumption is that there will be no change to the delivery mechanism for the three waters. While "Local Water Done Well" encourages Councils to set up regional organisations to deliver three waters across multiple councils, there has not been any progress on this at the time of writing and to ensure consistency the planning done on this activity has been based on the status quo.

Our Vision

We thrive together. Vibrant, connected communities where our land and our people are nurtured and our people flourish.

Mā te whenua, mā te waiora tātou e ora ai hei hapori ngangahau hei hapori honohono hoki.

Our Infrastructure Objectives

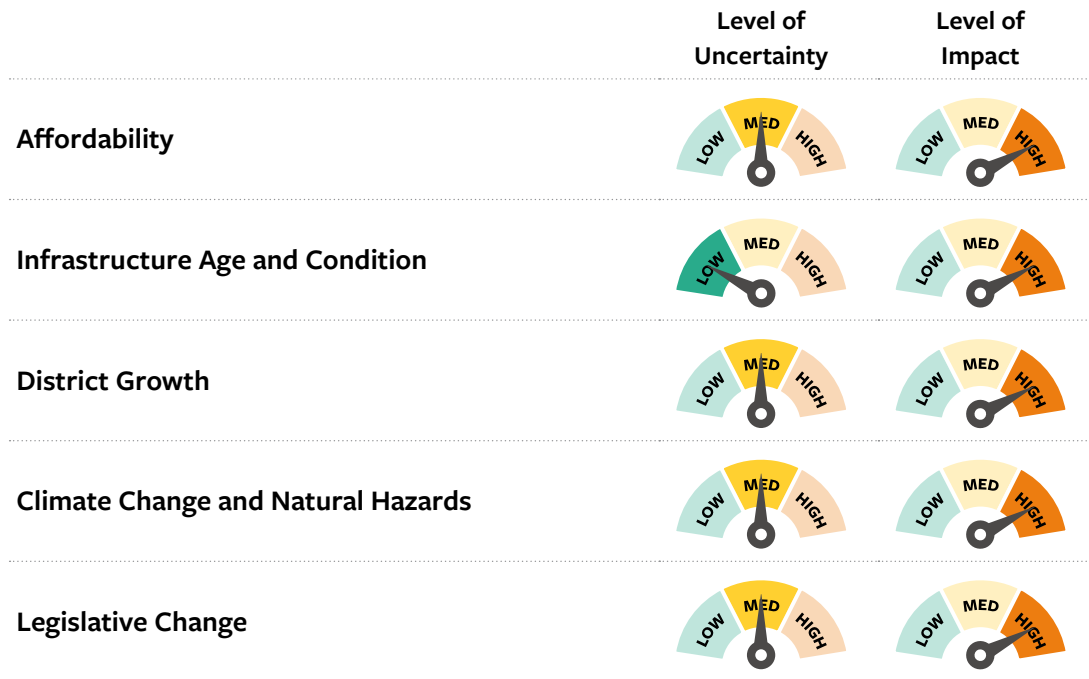
- To ensure a reliable supply of safe drinking water to our communities.
- To ensure efficient and reliable wastewater treatment that meets environmental outcomes.
- To ensure efficient stormwater network capacity that protects from flood events.
- To ensure public roads and footpaths are safe, reliable and resilient.

Strategic Enabler

Reliable infrastructure that is fit for purpose and future proofs our thriving district for tomorrow.



Our Big Picture Issues



Our Key Principles

Lifecycle Management	Evidenced Based Decision Making
	Proactive Management
Demand Management	Investment in Resilient and Sustainable Infrastructure
	Manage within Existing Boundaries
Levels of Service Management	Aim to Deliver Existing Service Levels
Risk Management	Improve Asset Criticality Understanding
	Decreased pollution in the rivers and streams

Our Priorities & Areas of Focus



Improving asset information and infrastructure asset management maturity.



Delivering ongoing maintenance and renewals programmes to meet current renewal levels and with a view to preserving asset life and levels of service.



Meeting levels of service concurrently with reactive maintenance, while developing and implementing capital and renewal programs to meet current and future demand.



Addressing key level of service deficiencies



Addressing key network performance issues



Improving service delivery and asset resilience to natural hazards and the effects of climate change



Network extensions to enable sustainable urban growth and infill in our townships.



Ensure compliance with resource consents and statutory requirements.



Ensure infrastructure and services are developed with environmental protection as a key consideration including through the reduction of emissions.

He Whakatakinga

INTRODUCTION

The Infrastructure Strategy for Tararua District Council (TDC) 2024-2054 sets out Council's strategic direction for delivery of our key services and the infrastructure assets that support them, over the next 30 years.

Infrastructure plays an important part in our everyday lives, providing a platform for safe, thriving communities and allowing our business community to deliver goods and services to customers. 'Infrastructure' refers to physical and organisational structures and facilities (e.g. treatment plants, water pipes, roads, footpaths etc).

Based on the strategic direction set out in this document Council will develop a schedule of intended capital works for the next 30 years. Council will prioritise these projects based on the needs of the community and funding available. The projects identified will be discussed in more detail in the respective Activity Management Plans. The Asset Management Plans consider varying options for mitigation of issues – changes to Level of Service for different activities and the corresponding costs and benefits. This options analysis gives a guide to where the balance is between cost and benefit and by the time the Infrastructure Strategy is written the options have been confirmed as part of the Asset Management Plan process. Where an issue is considered 'significant' under the Local Government Act they are addressed individually and at time of writing there are no changes proposed to the Level of Service that would trigger that threshold.

It is also important to acknowledge the opportunities that lie ahead for our district. With the ongoing growth we are currently

experiencing, we can anticipate even more development in the future, particularly when the new Te Ahu a Tūranga Manawatū-Tararua Highway is completed in 2025. While such opportunities are great for our district, they also require proactive planning to address the mounting pressure on our infrastructure and housing. This Strategy and the Finance Strategy, working alongside the Growth Strategy and District Plan reviews, will set out how we can grow in a sustainable way while protecting the things that make Tararua unique. In the first 10 years of the Strategy Council plans to partly meet requirements for forecast growth as it improves its understanding of three waters networks and improves demand management to meet growth in future years.

Climate change impacts are already being felt and climate forecasts are for an increase in events that bring heavy rain, strong winds, and longer dry periods. There is significant uncertainty in forecasting climate change over the period of this plan and the life of infrastructure assets. Decisions made by Council now will directly impact on the future climate resilience of communities and the environment. The capacity of assets will be impacted by both increased rainfall intensity and climate challenges like drought. Decisions about roading drainage, stormwater, water sources and storage are priorities for this strategy.

The District continues to recover from the effects of Cyclone Gabrielle and there will need to be increasing expenditure on 'building back better' to help ensure infrastructure resilience. This poses an affordability challenge due to Waka Kotahi/NZTA funding constraints, Council debt levels, and the increasing rates burden on the community.

There are long-term funding and affordability challenges for Council to deliver the projects set out in the Activity management Plans, how we plan for and provide infrastructure and how we manage the impact of peak demand on our assets and levels of service.

The new government has legislated new three waters reform Local Water Done Well. The responsibility for the delivery of three waters will remain with Council with potential for regional collaboration that is discussed in more detail later. Infrastructure challenges such as renewal, resilience and reliability, service standards, and changes in growth and demand will continue to be Council's responsibility and how Council will deliver these is set out in this strategy.

Through all these challenges and opportunities ahead across the infrastructure portfolios, we want our infrastructure, our whenua (land) and our people of Tararua to thrive together - Ka huri ngatahi Tararua! We thrive together. Vibrant, connected communities where our land and waters are nurtured, and our people flourish. Mā te whenua, mā te waiora tātou e ora ai hei hapori ngangahau hei hapori honohono hoki.

Purpose of the Infrastructure Strategy

This Infrastructure Strategy purpose is to provide reliable infrastructure that is fit for purpose and future proofs our thriving district for tomorrow.

It has been prepared to meet the requirements of section 101B of the Local Government Act 2002 (LGA). Section 101B requires Councils to prepare an infrastructure strategy that identifies:

- Significant infrastructure issues facing Tararua District over the next 30 years
- The principal options for managing these issues and the implications of these options.
- The Act also requires Council to consider and set out in this strategy how, in managing its infrastructure assets:
- It will respond to growth or decline in demand for services reliant on those assets;
- It will manage the renewal or replacement of existing assets over their lifetime;
- Planned increases or decreases in levels of service will be allowed for;
- Public health and environmental outcomes will be maintained or improved; and
- Natural hazard risks will be addressed in terms of infrastructure resilience and financial planning.

Developing this strategy assists Council to look at what is likely to be required over the next 30 years; balancing the ratepayer's ability to pay and future ratepayers having well maintained and functioning infrastructure.

The Infrastructure Strategy, in conjunction with other strategies of Tararua District Council i.e., Growth Strategy, District Strategy, Finance Strategy and the relevant Asset and Activity management Plans tell the story about where of Tararua District Council is currently, expect to be, and how it intends to get there. It explores policy considerations, aspirations for growth, and provides an overview of the key constraints. This includes funding, physical restrictions and data availability and accuracy. An understanding of the age, condition, and performance of critical assets, as well as future demand, is important in assessing actual and planned expenditure to sustainably maintaining assets.

Scope of the Infrastructure Strategy

Overview of Services

The scope of the Strategy is primarily defined by the Local Government Act 2002. Section 101B of the LGA requires Council's infrastructure strategy to cover infrastructure assets used to provide services by or on behalf of Council in relation to the following activities:

- Water supply
- Sewage and the treatment and disposal of sewage (wastewater)
- Stormwater drainage
- Roads and footpaths
- Flood protection and control works
- Any other assets that the local authority, in its discretion, wishes to include in the strategy.

This Infrastructure Strategy includes TDC's infrastructure activities under the portfolio categories included in the following table.

TABLE 1: INFRASTRUCTURE PORTFOLIOS INCLUDED IN OUR INFRASTRUCTURE STRATEGY

Portfolio	Activities	Key Infrastructure Assets
Waters	Water	<ul style="list-style-type: none"> • 8 water intakes including 2 bores; • 7 water treatment plants • 1 pump stations, 14 reservoirs; • 267 kilometres of water supply pipelines • 47 kilometres of laterals
	Wastewater	<ul style="list-style-type: none"> • 7 treatment plants • 21 sewer pump stations • 95 kilometres of wastewater pipeline • 1100 maintenance chambers
	Stormwater	<ul style="list-style-type: none"> • 28 kilometres of stormwater pipelines • 26 kilometres of open channel drains and streams • 1160 maintenance chambers and sumps
Transportation	Roads and footpaths	<ul style="list-style-type: none"> • 1,191km sealed roads • 767km unsealed roads • 405 bridges and 149 high-capacity culverts 1,842km drains and channels • 120km footpath

This strategy does not cover:

- State highways, as these are the responsibility of Waka Kotahi NZ Transport Agency
- Flood protection and control assets, as these are the responsibility of the Horizons Regional Council
- Other Infrastructure Portfolios e.g. buildings and facilities

In future Council will consider the inclusion of a wider range of infrastructure portfolios to ensure more holistic planning for sustainable service delivery over the 2027/30 period. This is likely to include:

- Parks, reserves, and recreation facilities;
- Solid Waste and landfill facilities; and
- Property and community buildings.

Infrastructure Strategy Structure

The layout of this document and the corresponding LGA section are shown below.

TABLE 2: INFRASTRUCTURE STRATEGY STRUCTURE

Section	Purpose	LGA 2002 (Section 101B)
Executive Summary	Provides a summary of the document.	
Introduction	Identifies the purpose, scope, and structure of the strategy, as well as its relationship to other documents.	6
Strategic Context	Provides context through an overview of the district, and the Council. Identifies our objectives for infrastructure and how infrastructure contributes to our community's wellbeing.	2(a)
Our Infrastructure Management Approach	Summarises our key principles used to manage infrastructure in a way that maximises value for money. Outlines assumptions made as part of the strategic planning process and the uncertainty related to these.	3(a) to 3(e), 4(c), 4 (d)
Our Infrastructure	Provides a summary of the current state of our core infrastructure.	6
Key Infrastructure Challenges	Identifies the internal and external factors influencing the management of Council's infrastructure.	2(a)
Principal Options for Addressing Challenges	Summarises our significant decisions. Outlines the principal options for managing key risks and challenges identified for each activity.	2(b), 4(b)
Infrastructure Investment Forecasts	Summarises our most-likely scenario and expected investment.	4(a)
Improvement Plan	Outlines the areas we will be focussing on for future improvement of the Infrastructure Strategy	

Relationship to Other Documents

This strategy provides a link between several important Council documents such as the District Plan, Financial Strategy, and Activity Management Plans. The image below shows the relationship between the Infrastructure Strategy with other Council Plans and Policies interlinking with this document.



Planning Horizons

Our planning has several different time horizons as shown in Figure 2. Table 3 outlines the intent of key Council Plans and their level of accuracy.

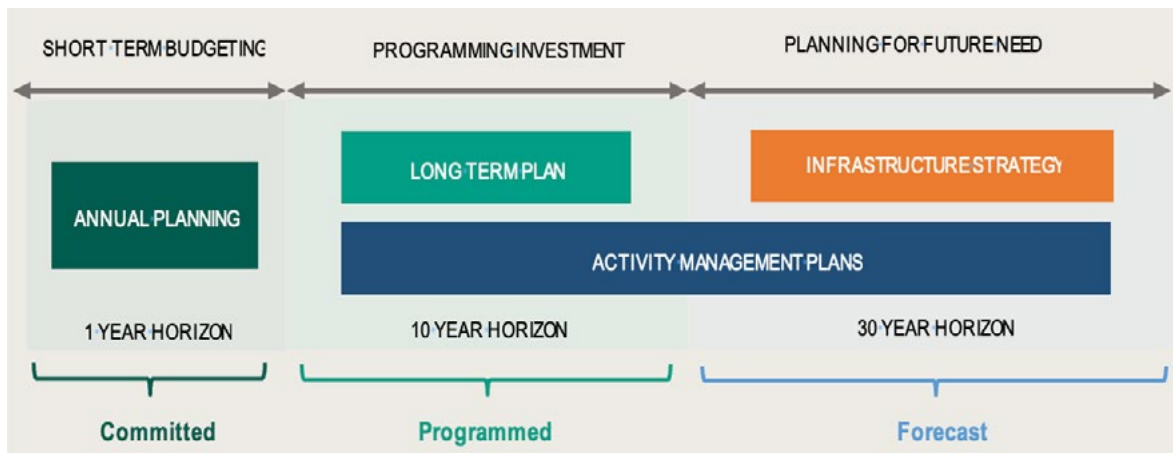





TABLE 3 PLANNING INTENT AND ACCURACY

Planning Horizon	Council Plans	Intent	Level of Accuracy
30+ years	2024 – 2054 Infrastructure Strategy	<p>Forecasting Future Need</p> <p>The Infrastructure Strategy guides policy decisions, goal setting and long-term capital investment. It helps establish the sustainable level of funding required to deliver service and accommodate future demand.</p> <p>We update our Infrastructure Strategy every 3 years.</p>	 <p>(depending on assumptions and data accuracy)</p>
10-30+ years	Activity Management Plans	<p>Programming Investment</p> <p>The key documents underpinning the Infrastructure Strategy are the Transportation Asset Management Plan and 3-Waters Asset Management Plan. These plans combine management, financial, engineering, and technical practices to ensure that the level of service required by customers is provided effectively and efficiently. This requires taking a whole-of-life approach to asset investment planning.</p> <p>Areas of specific focus for the updates included; ensuring relevant levels of service and service performance measures, assessing performance, identifying new key risks and significant issues. This work has led to the identification of the current and future asset requirements and the financial forecast for capital (renewals and new capital projects) and operational expenditure for each asset group.</p> <p>These documents should be referred to if tactical and/or operational detail related to this strategy and the respective assets is sought.</p> <p>Our Activity Management Planning is updated on an ongoing basis, but plans are formally adopted by Council every three years.</p>	 <p>(depending on data accuracy)</p>
10+ years	2024 – 2031 Long Term Plan	<p>Committing Budgets</p> <p>These plans allow for consultation with the community around the services we provide. They are made publicly available once finalised.</p> <p>Areas of specific focus for the updates include; ensuring relevant levels of service and sustainable cost of service. The Plan outlines how our services are performing and investment in capital projects and operational required to provide our services over the next 10 years.</p> <p>We update our Long Term Plan every 3 years.</p>	 <p>(depending on data and cost estimate accuracy)</p>

Planning Horizon	Council Plans	Intent	Level of Accuracy
1-3 years	Annual Plan	This detailed level planning prioritises the capital projects and operating budget for the next 1-3 years. Where capital project prioritisation is completed using a business case and optioneering process. This is particularly the case for Transportation, where investment planning must meet Waka Kotahi investment decision making requirements.	 <p>(depending on cost estimate accuracy)</p>

Financial Strategy

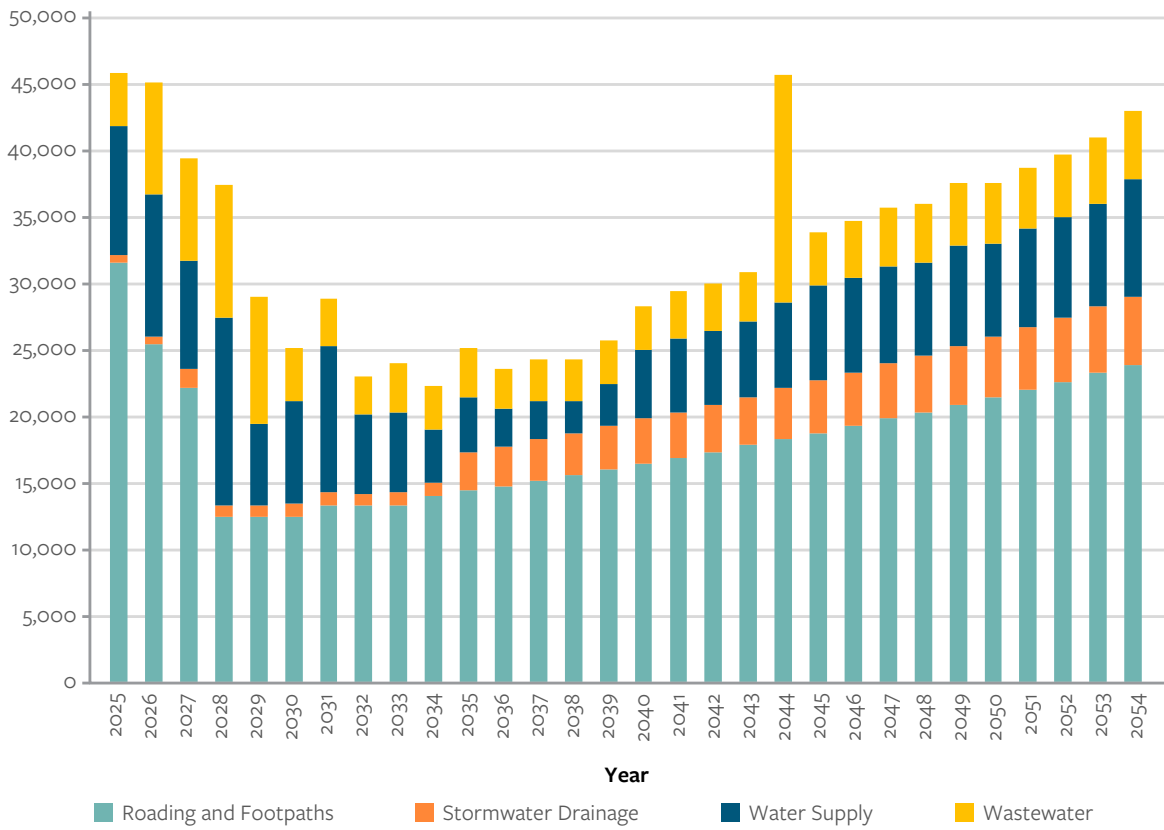
The programme of works in the Financial Strategy is essential to build resilience, increase our levels of service, provide for growth, and maintain our current asset base.

Over half Council’s planned Capex over the next 10 years in this roading space. Our communities expect clean water, safe roads and suitable recreational facilities that contribute to making Tararua place where the people are thriving, happy, safe and well.

Affordability is a key consideration within the Financial Strategy. We explain affordable as something is inexpensive or reasonably priced, Council aims to deliver its services in an affordable way but faces challenges in spreading the cost over a small number of ratepayers. We continue to experience significant cost increases as has every house and business in New Zealand due to the much higher inflation than what was planned for. Significant cost increases have occurred, in the three waters and roading activities due in part to legislative requirements as well as recovering from devastating effects of Cyclone Gabrielle and previous weather-related events. As signalled previously, keeping up with the cost increases means that rates increase are needing to be higher.

When assessing affordability, we visit our regular environmental scans that look at local and political items that could impact our district, we consider our spend before going ahead and where a budget has been provided for not going ahead and spending if it is not necessary to do so. In trying to maintain affordability and provide essential services to our community we are constantly trying to find the happy medium between these things. We revisit our budgets annually, weighing up necessities and nice to haves and this plan as with the previous annual plan have paired back to the minimum and what is necessary across the board.

Annual Capital Expenditure – Transport and the three waters



Horopaki Rautaki STRATEGIC CONTEXT

District Overview

Tamaki-nui-a-Rua

Rangitāne o Tamaki nui-ā-Rua and Ngāti Kahungunu ki Tāmaki nui-a-Rua, who represent their many hapū with their own whenua and awa tributaries, have both signed deeds of settlement with the New Zealand Government and have partnership agreements with Tararua District Council. These memoranda of partnership recognise the relationship and responsibility of Council to support iwi aspirations and hopes for the future of their whānau.

While the Council has obligations to all Māori, it has a further responsibility to act in good faith and in a manner of mutual respect with its iwi partners. This includes acknowledging and respecting iwi priorities, their traditions, particularly ancestral land, water, sites, wāhi tapu, valued flora and fauna as well as other taonga.

To give effect to the relationships, all necessary information must be shared for iwi and Māori to make informed contributions to Council decision-making. This will not only allow for open and transparent engagement, but the foundation to build enduring trust and opportunity, for Council to iwi and iwi to Council.

Together with Council, Rangitāne o Tamaki nui-ā-Rua and Ngāti Kahungunu ki Tāmaki nui-a-Rua share a vision for a prosperous and healthy district that supports its people and their cultural values. These are the principles of kotahitanga and kaitiakitanga that encompass sustainability, are for the environment and appropriate management of natural and physical resources is achieved through working together.



Geographic Context

The Tararua district is located within the Manawatū-Whanganui region, situated on the southeast coast of the North Island, bound to the west by the Ruahine and Tararua Ranges. Covering an area of 4,364.65km² near the south-east corner of New Zealand’s North Island, comprised of a resident population of approximately 19,050. It has several urban settlements with the largest being Dannevirke, Eketāhuna, Pahiatua and Woodville.

The 2020 National Climate Change Risk Assessment and the 2021 Manawatū-Whanganui Regional Climate Risk Assessment form the basis of Council’s climate change forecasts. The forecasts are through to 2040 and 2090 and project an increase in events that bring heavy rain, strong winds, and longer dry periods, as well as sea level rise.

“Climate change is one of humanity’s greatest challenges. The impacts of climate change are already being felt within the communities, businesses, native ecosystems, and

infrastructure within the region. Climate change, and its associated impacts will have significant social, economic, environmental, and cultural implications for the region’s communities.” 2021 Manawatū-Whanganui Regional Climate Risk Assessment

There remains a high level of uncertainty in forecasting climate change especially at a local level and the science continues to rapidly develop. Council overlays the long-term changes with an expectation there will be short-term climatic variations where change will occur with more intensity and variability, potentially in a non-linear way i.e. in step changes.

Council faces funding pressure to build infrastructure that is climate resilient over the life of the asset, is safe, and meets community needs. Climate change risk is expected to impact to the way Council allocate resources and the type of proactive projects undertaken.

For example:

Transport – More intense and frequent rainfall causes landslides and soil erosion resulting in damage to roads. Improved drainage is required to reduce long-term maintenance costs.

Drinking water - Longer dry periods increase demand at a time when the amount of water available from rivers is reduced. Intense rainfall creates high turbidity and makes treatment more difficult. Infrastructure that is more resilient to long dry periods and high intensity rainfall will be required to ensure reliable water supplies.

Wastewater - More intense and frequent rainfall means more wastewater to treat due to infiltration from stormwater. Managing methane emissions from wastewater treatment may require new investment.

Stormwater - More intense and frequent rainfall may overwhelm stormwater systems. Investment in increasing capacity and coverage is required to ensure stormwater systems are safe and resilient.

Our People

More people are choosing Tararua as a place to live, work and play.

Over the past decade, Tararua has seen a surge in growth, especially in urban areas like Pahiatua and Woodville, with increases of 11%, and Dannevirke growing by 8% from the 2018 census.

Council has projected that over the life of this 10 year plan, the district population will increase by 5.7% with the total population in June 2034 at 20,357, compared to 19,261 forecast for June 2024 in the previous Long Term Plan. And by 2054 forecast the district population to increase to 22,350.

The total number of households is predicted to increase by 7.5% to 8,520 (increase of 594 households). These additional households are anticipated to be split 70% urban & 30% rural.

Council has been working on it’s district plan review over the previous three years and as a result of this has produced a Growth Strategy for the district which it has recently consulted



on. Council predicts that urban development will drive this growth, despite a recent dip in housebuilding due to economic pressures.

The forecasts are based on Informetrics data and factor in historic growth forecasts and the anticipated positive impact of the Te Ahu a Tūranga Highway. Although the population is an ageing demographic shifting towards an older population, with the number of older residents in the district increasing significantly over the long term, this will lead to changes in the way Council delivers services. The number of residents aged over sixty-five increased by 17.3% (583 people) from June 2018 to June 2023. Older people at June 2023 made up 20.6% of the estimated resident population (up from 19% in the March 2018 census). Council forecasts this to increase to 26.2% of the population in 2034.

This is an increase of 1,231 people aged over sixty-five to 5,333 residents for the 10 years, against a total population forecast increase of 1,096 residents to 20,357.

To accommodate this growth and anticipated changes to our population, Council is exploring funding options like development contributions to manage the infrastructure demands without overburdening current ratepayers. This is part of a broader strategy to prepare for growth, ensuring community facilities meet future needs and keeping rates affordable. The rising population is also putting pressure on the rental market, complicating housing and employment attraction. Employment in Tararua is expected to grow by 1,367 FTEs over 30 years, with rural areas and Dannevirke seeing the most significant increases.

Our Economy

Tararua is home to four primary towns: Dannevirke, Woodville, Pahiatua, and Eketāhuna, along with several smaller communities throughout the district. It boasts strong connectivity to both the south and north, positioning Wellington and Hawkes Bay within a manageable driving distance. Additionally, Palmerston North, a significant provincial city, is close enough for daily commuting, allowing Tararua residents to enjoy the district's lifestyle without compromising on career opportunities. The introduction of the Te Ahu a Tūranga (Manawatū Tararua Highway) is set to further enhance accessibility, promising shorter travel times and more attractive living options in Tararua, especially in Woodville.

Council's growth strategy highlights the district's strategic location as an ideal spot for creating industrial and potential satellite distribution hubs, facilitating the transport of goods in and out of the area.

By 2053, Tararua's GDP is expected to reach \$1.208 billion, marking a \$378 million increase from 2022 and averaging an annual growth rate of 1.2% over the next three decades. Of this growth, rural Tararua is projected to contribute \$188 million, with the urban centres adding another \$190 million.

Currently, the primary sector is the region's dominant force, contributing 36% to the GDP, with manufacturing also playing a significant role at about 20%. This dynamic is expected to remain stable for the next 30 years. Nevertheless, forecasts indicate an increasing need for industrial and commercial real estate, as highlighted in the land use overview.

Tararua Strategic Context

Tararua District Council is the local territorial authority for the district. Several different borough councils established the assets of Council prior to the merger and establishment of Tararua District Council in 1989.

The delivery of services such as transportation, water supply, wastewater and stormwater are a core function of Council, with provision and management of associated infrastructure accounting for the largest portion of its annual operating and capital expenditure.

These services and associated infrastructure provided by the Council protects public health by providing clean drinking water and treating and disposing of wastewater appropriately. It enables goods and people to move around the district, contributing to the economy and facilitating social interaction. It ensures that homes and businesses are protected from the effects of flooding, and it is at the heart of the recovery following a natural disaster.

Vision and Objectives

Council's Vision, Focus Areas, Desired Outcomes, and Strategic Objectives were developed and adopted in the District Strategy. Infrastructure and services touch the lives of most people everyday, from roads and footpaths to water, libraries and parks. The Council Outcomes are the 10 year goals for the Council as part of working towards the longer term Vision. The Focus Areas, Desired Outcomes, and Strategic Objectives are the link between the Vision and the Council activities, providing the focus for the groups of activities and measures in the Long-Term Plan.

Council has four focus areas, Thriving District, Improving Our Environment, Connected Communities, and Interactive Council and following Desired Outcomes:

- The people are thriving, happy, safe, and well
- Partnerships with iwi are honoured
- The natural environment is improved while still producing a diverse range of primary industry food and products
- Quality community facilities and infrastructure is provided to meet the needs of future generations and support our long-term prosperity
- We are nimble; ensuring we have the capacity, innovation, and adaptability to improve community well-being, while promoting balanced & sustainable growth
- We work collaboratively, gaining strength from each other as challenges and opportunities arise, to make great things happen

The Strategic Objectives relating to infrastructure are:

- Infrastructure and services are developed with environmental protection as a key consideration.
- To protect the environment through reducing emissions
- To ensure our towns are designed in a way that consider future resident and environmental needs
- To adapt and respond to changes in Tararua's environmental landscape, including agricultural opportunities and reforestation activities
- To ensure our towns have outstanding facilities for all to enjoy

- To ensure all residents have access to services that enhance their ability to engage safely with their communities
- We have resilient and reliable infrastructure that connects our communities

The strategic enablers of the District Strategy vision and outcomes are the Infrastructure Strategy “Reliable infrastructure that is fit for purpose and future proofs our thriving district for tomorrow” and the Financial Strategy “Building a sustainable footing to increase the resilience of our assets and services, plan for the future”.

Community Wellbeing

Council in 2024 will be implementing the new District Strategy vision. These are the outcomes council have adopted so that the vision of thriving together can be embodied into the council strategic frameworks and strategies.

Post Cyclone Gabrielle work has been undertaken the impacts on community wellbeing throughout the district. It is clear that farmers, growers and lifestyle block owners throughout the district have been heavily impacted. It is evident that mental health and wellbeing has been negatively affected since the cyclone. This is in part due to property/farm damage, financial issues, and lack of insurance and overworking. The infrastructure strategic impacts to wellbeing have been highlighted in longer travel routes due to road closures and a need for a longer-term focus area “included roading and bridge repairs, river management, climate change resilience and continuity of telecommunications.”

Focus areas

The focus areas of the strategic vision are in place to enable the desired outcomes. For infrastructure the outcomes of infrastructure that meets the future needs of the communities and promoting balanced and sustainable growth is a key aspects in these outcomes.

The strategic infrastructure enabler is “Reliable infrastructure that is fit for purpose and future proofs our thriving district for tomorrow”.

Partnerships and stakeholders

The parties to the Treaty start from a position of mutual respect. Tararua District Council is committed to its role as Tangata Tiriti, to maintain and improve opportunities for Māori to contribute to local government.

The Council acknowledges its relationship with both iwi in the Tararua District, Ngāti Kahungunu ki Tāmaki nui-a-Rua and Rangitāne o Tamaki Nui-ā-Rua and will continue to act respectfully and reasonably as a Treaty partner for iwi and Māori alike. This will be enacted through the actioning of specific principles and requirements for local authorities that facilitate participation by iwi and Māori in local authority decision-making processes. This is considered at a council activity level while Iwi partners aspire to progress the outcomes now made possible by their respective recent treaty settlements.

Ngāti Kahungunu ki Tāmaki nui-a-Rua and Rangitāne o Tamaki Nui-ā-Rua meet formally with Council elected members and staff at regular governance and operational meetings to consider the Long-Term Plan, Annual Plan, regulatory changes as well as other areas of interest. Iwi representatives are invited to attend council workshops on a range of subjects for their input on the matters being discussed.

This has seen positive changes in regulatory matters to benefit Māori – e.g., the review of the District Plan with relevance to urban growth, papakāinga development and other strategic initiatives of mutual interest. Council staff also meet with Rūnanga representatives on transport and water matters on a regular basis, on an individual basis, specific to Council operations and individual Rūnanga aspirations.

While dealing with the Cyclone Gabrielle events Iwi were a key part of the emergency response as well as the Roothing Recovery Group. This allowed for continued involvement and ease of decision making throughout the process of response and recovery.

Council also maintains strategic and operational relations with various other agencies like Waka Kotahi NZTA, Downer NZ, LGNZ, Taituara and regional relationships like Horizons, RLTC and MWCDEM.

Strategic Alignment

The quality of life in the Tararua District is reliant on infrastructure. The impact of infrastructure failure and associated loss of service can significantly impact community wellbeing and district outcomes. One of Council's largest challenges is investing in the resilience of its infrastructure while still maintaining affordability, to ensure community wellbeing is enhanced. Resilience has been a major focus in recent times following events such as the Kaikoura earthquake and recently Cyclone Gabrielle.

Table 6 Linking Infrastructure Services to Community Wellbeing, summarises our core infrastructure related services, the associated assets, the respective strategic objectives, and the contribution to community wellbeing.

TABLE 6: LINKING INFRASTRUCTURE SERVICES TO COMMUNITY WELLBEING

Water

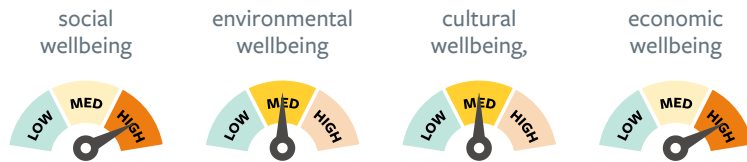
The infrastructure assets we must provide the service

Source, treatment plants, reservoirs, reticulation

Delivering Resilient Infrastructure priorities

To ensure a reliable supply of safe drinking water to our communities.

Our contribution to wellbeing



Wastewater

The infrastructure assets we must provide the service

Reticulation, treatment plants

Delivering Resilient Infrastructure priorities

To ensure efficient and reliable wastewater treatment that meets environmental outcomes.

Our contribution to wellbeing



Stormwater

The infrastructure assets we must provide the service

Open drains, underground pipes

Delivering Resilient Infrastructure priorities

To ensure efficient stormwater network capacity that protects from flood events.

Our contribution to wellbeing



Transportation

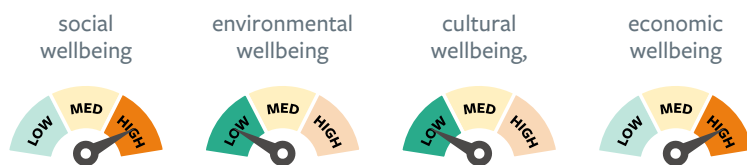
The infrastructure assets we must provide the service

Roads, footpaths, bridges, drainage, signs, rails, markings

Delivering Resilient Infrastructure priorities

To ensure public roads and footpaths are safe, reliable, and resilient.

Our contribution to wellbeing



Regional Strategic Context

Tararua District Council is part of Horizons Region which extends over 22,200km² - from Ruapehu in the north and Horowhenua in the south, to Whanganui in the west and Tararua in the east. Horizons provide services for Tararua, Manawatū, Horowhenua, Rangitikei, Wanganui and Ruapehu districts, Palmerston North City, and part of the Waitomo, Taupo, and Stratford districts. There are several regional initiatives which impact on 3 waters activities.

The Horizons One Plan is the ‘one-stop-shop’ resource management planning document for the Horizons Region. It combines the Regional Policy Statement, Regional Plan and Coastal Plan. This identifies the challenges facing the region, identifying the need to strike the ideal balance between using natural resources for economic and social wellbeing, while keeping the environment in good health. Likewise, the Regional Land Transport Plan (RLTP) sets out the strategic direction for land transport in the region over the next 10 years and outlines the activities proposed to deliver the strategic direction.

Water Supply Review

In February 2024, the new National-led government revoked the water services legislation implemented by the previous government. In its place, Government is developing a new approach called “Local Water Done Well”. This has a significantly different approach than the previous government. It does not require establishing new national water service entities or undergoing a similar level of central government resource allocation. It places importance on local decision-making and allows for local communities and councils to have a say in how their water services will work in the future, while making sure there is a strong focus

on maintaining good water quality and investing in infrastructure.

Government policy changes will influence our planning processes into the future. Also, there is no new funding source indicated in the Government’s “Waters Done Right” programme. This means debt and users pays (rates and Fees & Charges) will still be the main sources of funding.

Council is also having to build upfront for the growth in population and climate related events which are pushing our assets beyond their engineering design. Resilience and planning for more growth are now essential. The cost is now significant, and it is becoming increasingly unaffordable to our small communities, where we have no options to scale up to reduce cost.

However, as a Council we are committed to viewing such changes as opportunities to improve our environment and mitigate long-term implications. As a district we are committed to tackling the challenge of keeping our infrastructure up to regulatory standards and maintaining reliable and safe water sources. Planning is underway to ensure we have a greater understanding of our assets and the required investment, ensuring evidence-based decisions are made for now and into the future.

The One Plan

The One Plan is the resource management planning document for the Horizons Region. The One Plan defines how the natural and physical resources of the Region, including fresh water, air, productive land, and natural ecosystems, will be cared for and managed by the Regional Council in partnership with Territorial Authorities and the community.

This document details the overall policies for managing the environment in the region. It includes policies that relate directly to stormwater, waterways, and land use in general.

In this respect the plan manages the effects that water runoff has on waterways and surrounding land. Horizons Regional Council hold considerable information on river flood levels and land subject to flooding. This data can be used in the flood maps contained in the Tararua District Council District Plan to control safe floor levels of new construction.

The One Plan, plan amendment 2 (2022) took effect on 14 December 2022. The focus of Proposed Plan Change 2 is to clarify and amend the nutrient management framework so it effectively works towards achieving the strategies for surface water quality set out in the One Plan updating the cumulative nitrogen leaching maximums. This would only be an effect on wastewater irrigation to land schemes.

Collaboration projects

Horizons' freshwater work is vital to aquatic indigenous biodiversity, which is in a state of degradation. This degradation includes reduced native fish populations, poor habitat (loss of riparian margins in most areas, and the introduction of exotic fish and pest plants), and many barriers between coastal wetlands, streams, and headwaters. Horizons has several work programmes dedicated to sustainable land management, improving water quality, and protecting habitats, such as the Sustainable Land Use Initiative (SLUI).

Horizons works collaboratively with iwi, community groups, councils, industry partners, and landowners and is an active founding member of the Manawatū River Leaders' Accord and the Lake Horowhenua Accord. The goal of the Manawatū River Leaders' Accord is to improve the Manawatū River, the mauri (lifeforce) of the Manawatū River Catchment such that it sustains fish species and is suitable for contact recreation, in balance with the social, cultural, and economic activities of the catchment community.

National Strategic Context

Fresh water NPS

As it stands, the National Policy Statement for Freshwater Management (Freshwater NPS) and legislation is also being reviewed by the new Government. Once determined, this may reduce some of the requirements placed on councils at the same time the regional councils are trying to move to ensure compliance. Currently the Freshwater NPS provides national direction on how fresh water should be managed by directing the content of regional plans and providing clarification around the assessment of resource consent applications. A fundamental requirement of the Freshwater NPS is the requirement for councils to set freshwater objectives or aspirational future states for fresh water, and limits on resource use to work towards these. These objectives and limits must be set to manage both freshwater quality and quantity. They must also reflect the values and interests of local communities.

Other key requirements of the Freshwater NPS include:

- taking an integrated approach to managing land and water, and considering the impacts on downstream receiving environments when making management decisions in a catchment,
- iwi/hapū be involved in freshwater management and their values reflected in decisions about the management of fresh water, and
- water quality must be maintained or improved within a region.

Transportation

Central Government is responsible for overseeing all Transportation Activities across New Zealand. The Land Transport Management Act 2003 (LTMA), Transport Outcomes Framework and the Government Policy Statement (GPS) on Land Transport Funding provide strategic direction. The LTMA states that Local Authorities across New Zealand have statutory obligations to maintain a Roding network within their respective districts and in support of the GPS. The One Network Framework (ONF) evolves the One Network Road Classification (ONRC) to a two-dimensional classification framework focused on movement and place. The ONF was approved by the Waka Kotahi Board in February 2021.

Ministry of Transport – Transport Outcomes Framework

The Transport Outcomes Framework establishes the groundwork for a strategic approach to Transportation for New Zealand, by identifying what the Government is aiming to achieve through the transport system. It defines mode neutrality as a guiding principle for transport planning, investing, and regulating.

The framework itself is designed to highlight the intention behind the transport system rather than specify how. In the transportation context, Waka Kotahi NZ Transport Agency (NZTA) use this framework along with the Government Policy Statement (GPS) on Land Transport which they use to guide Road Controlling Authorities towards a consistent strategic approach.

Transport Government Policy Statement (GPS)

The Government Policy Statement on Land Transport 2024 builds on the direction set in GPS 2021 and sets the new the Government's commitment to safety within the transport system. This is highlighted in the Transport Outcomes Framework. It sets out the Government's strategic direction for the land transport system over the next 10 years and is updated every 3 years.

The Government has four Strategic Priorities which this GPS will deliver against:

- Economic Growth and Productivity
- Increased maintenance and resilience
- Safety
- Value for money

NZTA uses the GPS to provide guidance on how the National Land Transport Fund (NLTF) is invested and how the Regional Land Transport Plans (RLTPs) and the National Land Transport Plan (NLTP) are assessed, and activities prioritised.

In this way the GPS influences decisions on how funding from the NLTF is invested (see Figure 3). It also provides direction to local government, KiwiRail and NZTA on the type of activities that should be included in Regional Land Transport Plans (RLTP), the Rail Network Investment Programme (RNIP) and the National Land Transport Programme (NLTP) respectively.

The transport sector is facing significant cost increases resulting in the affordability of maintenance and new infrastructure projects becoming more challenging through the traditional funding models.

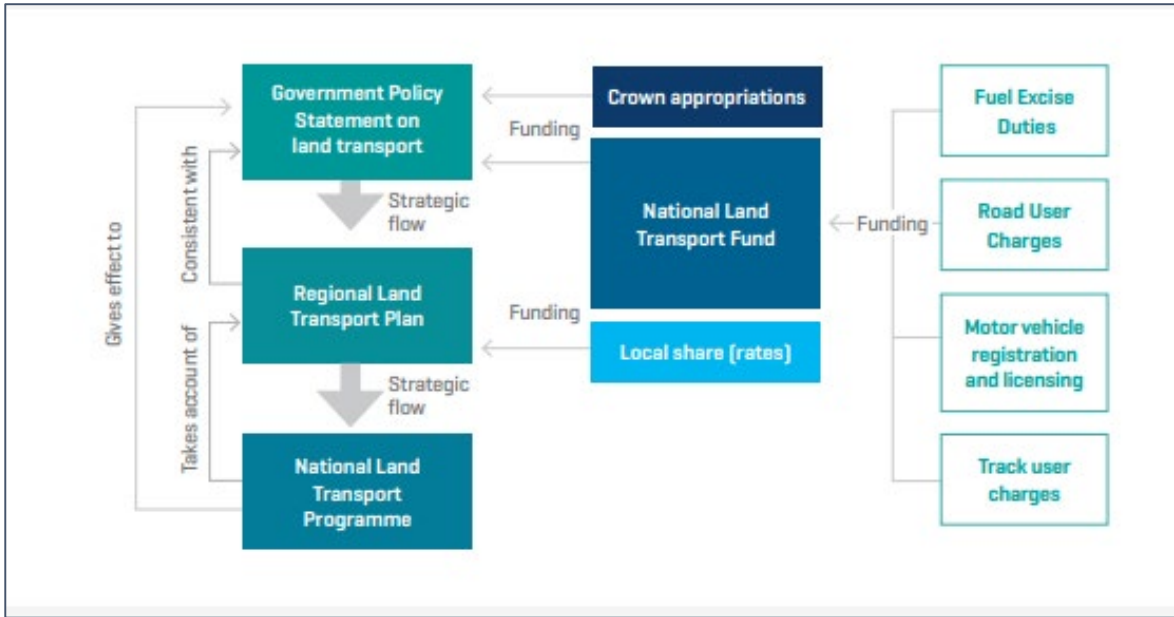
One Network Framework

The One Network Road Classification (ONRC) provided a framework for the standardisation of the classification of roads in New Zealand. The One Network Framework (ONF) evolves the One Network Road Classification (ONRC) to a two-dimensional classification framework focused on movement and place. The ONF was approved by the Waka Kotahi Board in February 2021.

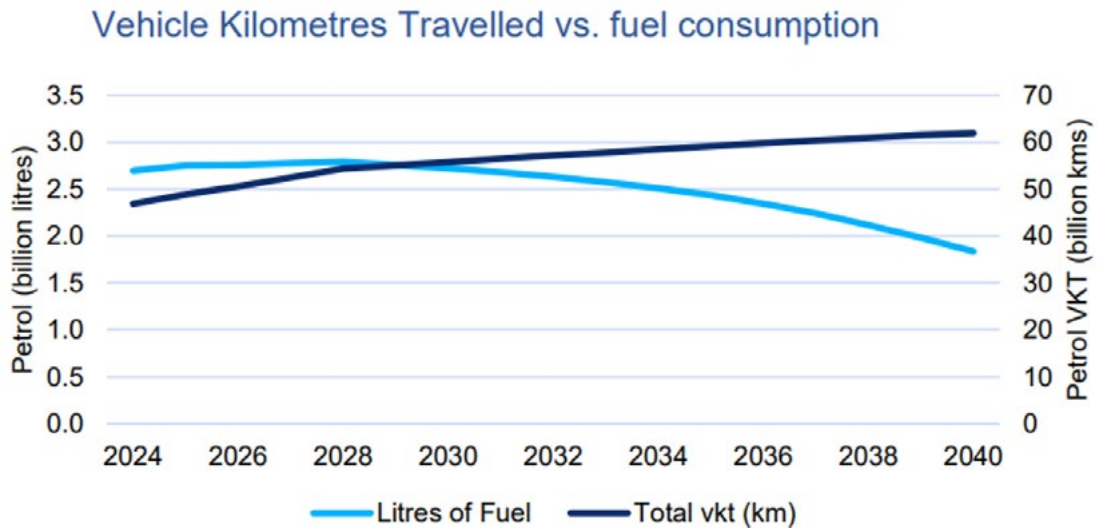
Some of the key benefits associated with ONF include “Improved investment planning and decision making ... [and] consistency in measuring current and future network performance and levels of service.” In line with this, a higher priority and level of investment per km is given to “Rural Connectors” and “Activity Streets”. However, with such a large proportion of roads in the “Rural Roads” category (77%) managing the network using these categories becomes difficult.

The new ONF allows for the consideration of future aspirations for corridors and networks within wider spatial and growth planning strategies. It helps establish the intended function of a corridor or road and plan for levels of investment and service. It does not dictate the final form or built design.

The role of the GPS in the land transport planning and funding system



From the Draft Government Policy Statement on land transport 2024/25-2033/34



Tā Mātou Ara Whakahaere Tūāhanga

OUR INFRASTRUCTURE MANAGEMENT APPROACH

Planning and delivering infrastructure are a balance between providing for growth in demand and the levels of service the community desires, and affordability for ratepayers. Most infrastructure assets have long lives, that extend well beyond the 30 years of this strategy, and once in place, these assets incur operating, maintenance and renewal costs that communities are committed to fund for many years to come. Planning for future infrastructure needs to be considered with a long-term view in mind.

Responding to growth (or decline) in demand for services reliant on those assets is approached through:

- greater resilience in water supply (greater storage) and leak reduction (lessen demand)
- Reduction in inflow and infiltration (I&I) of the water system (lessen demand)
- Greater linkages and capacity in stormwater (decrease demand) and managed growth areas (decrease impact of growth)
- Review intervention strategies in transport (match demand to use)

We will manage the renewal or replacement of existing assets over their lifetime through;

- Targeted priority renewals to reduce leakage in water reticulation.
- Targeted priority renewals to reduce I&I in wastewater with progressive treatment upgrades (based on I&I percentages achievable)
- Stormwater and drainage capacity upgrades

- Meeting asset renewal frequencies in transport (e.g. 1:17 or 6% reseal rates)
- Planned increases or decreases in levels of service will be allowed for
- The investment strategy will maintain our current assets, enhance service levels for our communities, and support the growth
- Public health and environmental outcomes will be maintained or improved
- Natural hazard risks will be addressed in terms of infrastructure resilience and financial planning.
 - Cyclone Gabrielle funding and upgrades in capacity are matched with planned renewals in connecting associated assets (whole of system approach)
 - Integrating alternate routes/supplies into planning to deliver resilience through varied options

Transportation Management Approach

In transportation the strategic approach is to preserve the current assets by increasing the funding and attempting to halt the decline in asset condition and to maintain the existing level of service. Building a strong programme to rehabilitate a declining network is the overarching theme of the strategy for Transport; in association with targeted investment in improving the safety, access, and resilience of the network. The maintenance and renewal

programme of works is data driven which shows the optimal timeframes for work to be completed. The works programme has been planned to address the problems highlighted by recent recommendations raised in a technical audit and recent Cyclone Gabrielle Audit. Carrying out these recommendations will reduce the risk of significant future costs to our community, which have been exacerbated by restrained investment in capital renewals.

3-Waters the management approach

Within 3-Waters the management approach is one of concurrent activities and being agile in the development of asset renewal and the development of the capital works programmes. The approach is to focus on:

- Reactive maintenance for more inspections, unplanned interruptions (breaks, leaks).
- Optimal performance of existing assets (plants and pipes)
- Maintaining customer service levels
- Preventive tasks such as i.e., reduction via Inflow and infiltration
- Predictive tasks such as thermal imaging, vibration analysis on pumps
- Scope the viability of water metering to reduce demand.

Management Principles

Investment in core infrastructure is, by far, the most significant of all Council's activities. The cost of developing, maintaining, and renewing our assets needs to be affordable for current and future ratepayers. Our approach to ensuring that we manage existing infrastructure assets efficiently and effectively and invest in new

infrastructure assets wisely will be based on the following management principals.

Lifecycle Management

Initial asset renewal/replacement strategies are age and condition based; depending on when the existing asset was constructed, what its expected useful life is and information regarding its inspection or maintenance. Age is especially relevant for underground water reticulation infrastructure, where minimal condition information exists due to the cost and complexity to collect. Underground CCTV inspection has been useful for gravity-based pipe networks.

Programmes will then be developed from this based on condition and performance. Deficiencies are identified by the monitoring of asset condition, reliability, capacity and efficiency during inspections and operational activity. Indicators of the key deficiencies which inform the renewals programmes include:

- Condition; i.e. the asset has or is about to fail
- Reliability; i.e. repeated asset failure
- Economics; i.e. annual cost of repairs and/or the annual operating cost exceeds (or is predicted to exceed) the annualised cost of its renewal
- Performance; i.e. the asset is no longer capable of delivering expected service levels
- Risk; i.e. the consequence and probability of failure justifies proactive action.

Efficiency benefits will also be assessed, i.e. combining asset renewal with other construction activities to reduce cost and disruption to customers (e.g. replacing reticulation infrastructure in conjunction with a road rehabilitation project).

Predictive pavement deterioration modelling is utilised for roads, enabling network level assessment and prioritisation. Similar tools are

being assessed for reticulation infrastructure. With the development of Waters consents, new capital projects and reticulation maintenance and renewals concurrent activities, are strategically carried out in parallel. These items require a broad focus and concentration on associated activity achievements. E.g. Greater water supply (storage/production) or reduction in water leaks reduce demand and renewals reduce leaks and increase asset lifecycle. This enables the Levels of service to be maintained while upgrading and renewing as well as meeting consent requirements concurrently.

When renewing assets, Council will take the opportunity to achieve increased environmental standards, public health and provide greater asset resilience, where this can be achieved as an augmentation to the asset renewal programme.

The uneconomic roading policy under NZTA guidelines shows how NZTA will continue to provide funding assistance for the cost-effective maintenance of an asset, however at end of life if the cost of renewal, reinstatement or structural upgrading is determined to be uneconomic, such works will not be eligible for funding assistance as a rule.

Key Principles

Evidence Based Decision Making

In recent years Council has invested in improving the accuracy of data that drives infrastructure investment decision making. This provides Council with increased confidence that these assets can continue to deliver the agreed levels of service for the least lifecycle cost without increasing the risk of failure.

Whilst a substantial amount of work has been completed, there are still significant gaps in the asset data required to have a high degree of

confidence. This is especially relevant to water reticulation assets. Improvements will continue to be made in this area.

Proactive Management

Whilst historic asset investment was reactive (i.e. waiting for customer complaints to arrive before intervening), Council is, over time, transitioning to a far more planned and proactive approach. This includes ongoing investment in preventive maintenance and a focus on root cause analysis, understanding and treating the cause of issues rather than just the symptoms.

Over time, we expect this will extend the expected useful lives of many assets and improve Council's ability to deliver agreed levels of service for the least whole-of-life cost without increasing the risk of failure.

Demand Management

Council's approach to managing demand has historically been relatively reactive and ad-hoc. This is largely due to the past nature of changes in demand, where population 'growth' has been negative or static.

The development of the Growth Strategy as well as the revision of the District Plan and Engineering Standards is informing the Infrastructure Strategy and the activity and asset management plans. Budget contingencies have been developed to accommodate this, where service extension is required to meet expected service levels the Annual plans can be amended as Council's focus is to invest in resilient and sustainable infrastructure, while managing with existing network boundaries and planning for future development. Areas identified within the district growth strategy will be a focus insure future development and sustainable infrastructure. The growth strategy provides recommendations for how council can meet

these demands, the activity management plans and the infrastructure strategy are the tools to enable this development and growth.

Investment in Resilient and Sustainable Infrastructure

We know many of our asset networks are vulnerable to external impacts, especially related to environmental and legislative changes. We will target investment to increase the resilience and sustainability of our infrastructure, ensuring we have future proof but still fit-for-purpose assets that met both current and predicted demands.

Manage within Existing Boundaries

We need to ensure that our water, wastewater, and stormwater networks remain affordable and sustainable for current and future generations. To ensure the continued affordability of our infrastructure networks, our approach to the growth pressure is:

- Improve capacity and performance modelling of our 3-Waters networks to ensure that our assets are not placed under too much stress during peak periods or in years where our climatic conditions place constraints on our ability to meet demand for services
- To encourage utilisation of existing infrastructure where existing capacity allows.
- Allow connections inside our current boundaries as of right.
- Ensure existing networks meet legislative requirements.
- Not provide for new reticulation beyond the urban areas until the reticulation inside the boundaries has been upgraded and the District Plan has confirmed the new service areas, unless paid for by developers.

The urban growth strategy has identified areas which are best suited for growth as well as intensification. It is also aspirational in land requirements where it is anticipated that growth will occur. This aspirational growth also covers areas of rural land for which industrial development is proposed and of satellite growth to be developed.

Council plans to partly cater for forecast growth in the first 10 years of this strategy and use the above approach to prepare to fully cater for forecast growth in later years.

Level of Service Management

Increasing service levels typically increases the cost of operating and maintaining assets. Assumptions are that while the number of households in the Tararua District is expected to increase over the next 30 years, while levels of service will remain the same.

This is facilitated through the asset retention strategy in transport retaining the assets in the current condition with targeted renewals. This is done through regular inspections as well as good data on the assets and their age/condition. Within the three waters the level of services is maintained through just in time management of faults and the development of capital works facilitate supply in the future with new consents.

While the overall levels of service are met, areas of improvement are required in areas of stormwater management where increasing maintenance and the development and implementation of the urban growth strategy is expected to increase the levels of customer satisfaction. In transportation funding constraints associated with a very large road network, small ratepayer base and rising costs is resulting in reduced levels of service compared to our peers, low customer satisfaction and possible asset consumption. The focus on

asset preservation and increased drainage for resilience it is expected to resolve the customer satisfaction issues over they are coming three-year.

Aim to deliver existing service levels

On a transport network basis, Council has not identified any significant gaps between the levels of service people expect from core infrastructure and the levels of service Council is able to deliver, now and over the next thirty years. This does assume continued

external funding for transportation, at least at the current levels, to continue for the long term. The increase in the funding assistance right from 69% to 73% will assist council in the funding of its transport programme. Where levels of service gaps exist currently, projects and changes in management techniques have been identified or are underway to address these, as detailed in the Activity Management Plans.

Within the areas of 3-Waters, growth in population, user behaviour and adaptation to climate will change how and where we will deliver the existing levels of service. Climate change increases vulnerability creating political, social, and cultural challenges to managing growth, and has cascading risks, including access to resources and supply chain.

Risk Management

The Risk Management Framework follows the principles of AS/NZS ISO31000:2009 and uses a matrix with five step risk likelihood and severity scale that reflects the relatively simple asset base that exists in the Tararua District.

In terms of risks the strategic risk register considers the likelihood, consequences, and a risk assessment for as the following risks relating to infrastructure:

- Population growth is significantly different to forecast.
- Business interruption events such as unexpected critical asset failure.
- Staff and supply chain resourcing constraints
- Infrastructure decision making will not adequately account climate change impacts.
- Natural disaster
- Delivery of the capital works programme
- Waka Kotahi funding is different to that forecast and impacts on ability to deliver on strategic objectives.
- Government reform or direction changes such as the Government Policy Statement and three waters reform.
- Not adequately engaging with Māori or meeting the objectives of iwi partnership agreements.
- Not maintaining strong relationships with key stakeholder or not effectively engaging with the community.
- Not meeting environmental or compliance standards

Tā Mātou Ara Whakahaere Tūāhanga

IMPROVING OUR INFRASTRUCTURE MANAGEMENT APPROACH

Improving our long-term Infrastructure Strategy is crucial for enabling the council vision and goals as shown in the Vision and Objectives and improving the evidenced based decision making.

Anticipating Challenges

As global temperatures rise, we must adapt to longer, hotter periods that can impact infrastructure performance. Rising temperatures can lead to water scarcity, affect farming, and cause more frequent and violent storms. Having a long-term strategy allows us to anticipate and address these challenges.

As the communities change and grow the infrastructure service needs to meet the future needs of the people. Better data reliability and use for confidence in decision making is required.

Holistic Approach

The strategy needs to bring together various interconnected issues that are/were previously discussed in isolation. It should consider social, economic, environmental, and cultural outcomes for communities across the district. By addressing these holistically, we can create a better place for the communities withing the Tararua District.

Certainty and Planning

Having a clear long-term vision provides certainty for the infrastructure needs. It enables planning for appropriate resources, supply chains, and funding decisions. An independent priority list for key projects ensures consensus and effective decision-making. Council will develop clear priorities in its infrastructure needs and include the other assets of council within the strategy to develop the priorities of investment across all functions of council.

Skills Development

The strategy recommends an infrastructure skills plan. This ensures that we have the right people with the necessary skills to plan and manage our assets as well as build and maintain our infrastructure for the communities of the future.

Te Whirinakitanga o ngā Pārongo

RELIABILITY OF INFORMATION

Council has developed this Infrastructure Strategy based on information with varying levels of reliability across the activities covered in this strategy. The reliability of data and information used as inputs into this Strategy varies.

Part of the Strategy is to improve decision-making by addressing gaps in asset data. While we have made improvements to our data quality and completeness for roads in recent years, Council is now targeting further collection, validation, and analysis of the data for other activities. This will fill the gaps to inform the 2027 -2057 strategy, by providing better primary evidence for infrastructure decisions. Especially within the three waters components where their data is also required in critical capital infrastructure design decisions.

The increased data quality trend has improved over time, particularly in asset management metrics however the greater use of the data (Via IDS) is an area for improvement into the future.

We have rated the confidence of our data for each activity in our Infrastructure Summary, using the ratings included in Appendix A. More information on data reliability is available in the AMPs for the respective activities.

Te Whakahaere Huarawa Poutūmārō

ASSET MANAGEMENT MATURITY

Council wants to ensure the levels of service and cost of service is appropriate for our community. So, it is important that these outputs are being delivered in an economic and sustainable manner. To do this requires a more in-depth understanding of the decisions, information, and processes that we use for the lifecycle management of our assets.

Data Driven Decisions

Asset Management Data Driven decisions is a focus going forward. Better asset data will give a foundation for Tararua District Council to better plan. Tararua District Council will;

- Maximize the value of data we have and treat it as a strategic asset—using it for innovation and critical decisions. A key example is the interdependency of roads and stormwater systems.
- Develop a strong data foundation, optimization and an insights-driven culture including;
- Automated capture of design and as-constructed data
- Standardised methodologies of sharing design and existing asset data
- Data quality assessment and benchmarking
- Large scale analysis of economic life of pipes
- Analysis of pipe performance versus ground and operational conditions
- Risk of failure analysis
- Develop an enterprise-wide data strategy
- increase data quality to produce transparent, trusted, and integrated data that is accessible at response.

These actions will develop our Asset Management capabilities to appropriate levels of maturity which are fit for purpose to meet the current and future needs of its stakeholders.

Asset Management

Council has not formally adopted a target practice level for Asset Management; however, we seek to meet a ‘Core’ level of Asset Management practice that meets custodial responsibilities identified in the International Infrastructure Management Manual (IIMM) to carry out the following activities:

- Record and report on the state of all assets to the community;
- Meet current statutory reporting requirements;
- Ensure community safety; and
- Provide management information to guide decisions by Council on the impact of decisions.

We acknowledge that Asset Management maturity is different across the different asset classes e.g. Transport vs Water. Transport is well above ‘Core’ and 3 Waters making good progress towards a ‘Core’ rating.

Asset Management Capacity (practice level)	Advanced				
	Intermediate				
	Core				
	Basic				
		Aware	Developing	Competent	Effective
		Asset Management Capability (organisational maturity)			

Ō Mātou Tūāhanga

OUR INFRASTRUCTURE

This section provides a summary ‘state of infrastructure’ for the four activities covered by this plan. The detailed asset information sits within the activity management plan of each activity. These plans cover the value and quality of assets, their condition and criticality. Each of the activities also has the data confidence and the reliability within these plans.

Water Supply

Service

The water supply activity involves the management, operation, and maintenance of the district’s water supply network. Council is responsible for providing safe, clean drinking water to domestic, commercial, and industrial customers connected to its water supply networks as a matter of public health.

Aim

To ensure a resilient and reliable supply of safe drinking water to our communities

Goals

The water supply goals are:

- water provided is safe to drink
- maintenance of reticulation network is effective
- issues relating to water supplies are responded to
- customers are satisfied with supplied water
- demand is managed effectively

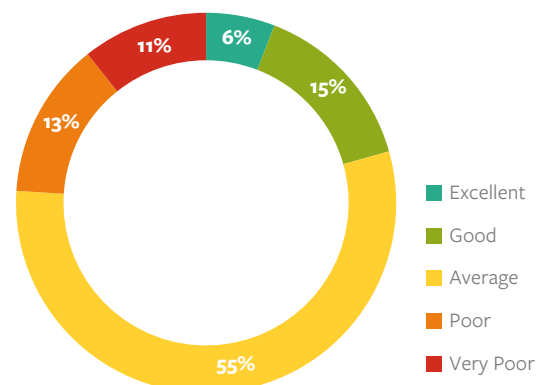
Assets

Tararua DC manages several Water Supplies (WS) schemes throughout the district, supplying water to the towns of Dannevirke, Pahiatua, Woodville, Eketāhuna, Norsewood, Ākitio and Pongaroa. Treatment varies between schemes, from chlorine, microfiltration, UV, and combinations of these. Over 5000 residential properties are served through the following individual water supplies:

- 8 water intakes including 2 bores;
- 7 water treatment plants
- 1 pump stations, 14 reservoirs;
- 267 kilometres of water supply pipelines
- 47 kilometres of laterals

The combined value of the water supply assets is \$80 million consisting of treatment plant and facilities pipe networks and other reticulation assets. The aged base condition for these assets is as below.




Water Supply Below Ground Asset Condition



Treatment plants asset condition

In general terms the Water treatment plants are considered critical because of the public health implications of a failure in the system. Hence, the assets within each treatment plant are all as critical as each other because they all form a linear part of the process of treating waste or water – without one part the whole does not function.

The components of each of the treatment plants varies in terms of its condition and performance, with some being older and more deteriorated than others, with those nearing end of life planned for renewal in the LTP. The LTP programme of works is in place to improve data quality (condition and performance) and develop an appropriate maintenance programme.

Critical Assets	Critical Assess Risk	Consequence of Failure
Water Supply Intake		No water for treatment plant means no water available to customers
Water Supply Treatment Plant		Failed treatment plant would mean no water available or only non-potable water available
Water Supply Trunk Main Supply and Pipeline		Failure prevents water reaching the reticulation and customers
Water Supply Storage Tanks/ Reservoirs		Insufficient storage reduces resilience of system
Water Supply Reticulation		Failure of reticulation means some customers do not get water

Wastewater

Service

The wastewater activity includes four wastewater schemes serving our urban communities. Council collects, treats, and disposes of treated wastewater from domestic, commercial, and industrial premises.

Aim

To ensure resilient and reliable wastewater treatment that meets agreed environmental outcomes.

Goals

The Wastewater goals are

- Risks to public health and our natural environment are minimised.
- The wastewater systems are adequate to meet the needs of their communities

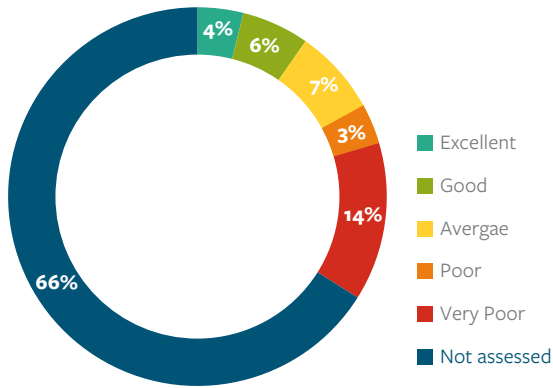
Assets

Wastewater reticulation systems are provided in the urban areas of Dannevirke, Pahiatua, Woodville, Eketāhuna, Norsewood, Pongaroa and Ormondville. Rural houses manage their own effluent. Primary treatment is done onsite by industries to comply with trade waste discharge limits set by Council before discharging to the public wastewater system, where it is treated and discharged to land and/or water ultimately discharging to the ocean. Tararua District Council’s Wastewater network includes:

- 7 treatment plants
- 21 sewer pump stations
- 95 kilometres of wastewater pipeline
- 1100 maintenance chambers

The combined value of the wastewater assets is \$80 million consisting of treatment plant and facilities pipe networks and other reticulation assets. The aged base condition for these assets is as below.

Wastewater Below Ground Asset Condition



Treatment plants asset condition

The assets within each treatment plant are all as critical as each other because they all form a linear part of the process of treating waste or water – without one part the whole does not function.

The components of each of the treatment plants varies in terms of its condition and performance, with some being older and more deteriorated than others, with those nearing end of life planned for renewal in the Long Term Plan. The LTP programme of works is in place to ensure adherence to Consent and environmental compliance standards is achieved over time in a prioritized and affordable manner as per the Three Waters AMP and some of those works are to address performance improvement opportunities.

Critical Assets	Critical Assess Risk	Consequence of Failure
Wastewater Treatment Plants		Failure of the treatment plant will lead to a build-up of wastewater in the ponds and possible discharge over the emergency spillway without full treatment and outside permitted hours
Wastewater Disposal System (planned)		Failure of the disposal systems may breach consents, damage receiving environments and cause cultural offence
Wastewater Underground Network		Failure of these means some waste cannot be transferred to the treatment plant
Wastewater Pump Stations		Failure of reticulation means some customers do not get water

Stormwater Service

Service

Stormwater is the runoff of rainwater which requires management and disposal using various drainage systems. Council has stormwater reticulation with associated manholes and sumps, as well as open stormwater channels drains.

Aim

To ensure efficient stormwater network capacity that protects built assets and people from flood events.

Goals

The stormwater goals are;

- The stormwater system is adequate
- Risks to public health and our natural environment are minimised
- Issues relating to the stormwater system are responded to
- Customers are satisfied with stormwater systems

Assets

Tararua DC manages and maintains an urban network of pipes and open channel drains to safely direct stormwater (SW) to inland streams and to the ocean. Stormwater reticulation infrastructure is provided in the urban townships of Dannevirke, Pahiatua, Woodville and Eketāhuna. Tararua District Council's stormwater network includes:

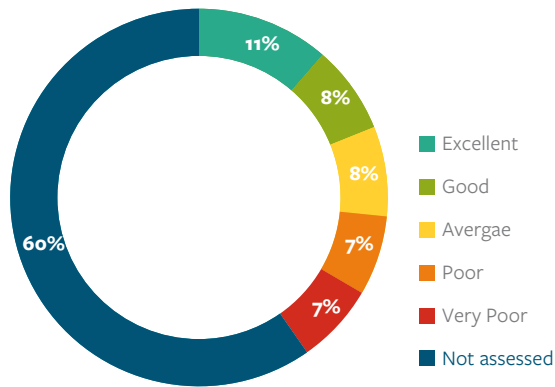
- 28 kilometres of stormwater pipelines
- 26 kilometres of open channel drains and streams
- 1160 maintenance chambers and sumps

The combined value of the water supply assets is \$24 million consisting of pipe networks and drains assets. The aged base condition for these assets is as below. Although a formalised criticality assessment has not been undertaken, the following assets have been identified as critical:

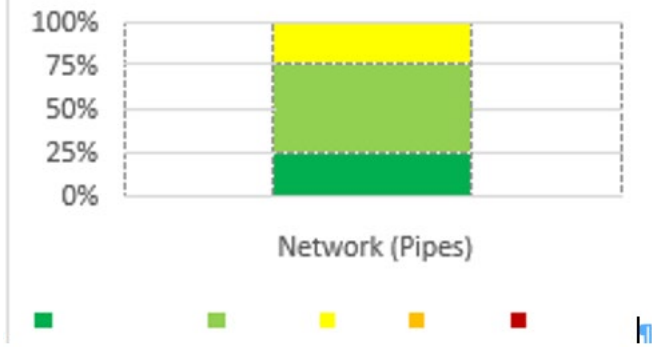
- Dannevirke culvert – this is a large diameter brick culvert that runs under buildings and the State Highway and through private property and there are limited entry points.
- Pahiatua, Town Creek culverts – in various places along the channel's route it runs under buildings and through private properties and there are limited entry points to maintain.

In both cases, access is either reliant on private landowners or safe access is not practical to arrange. They are therefore difficult to inspect, and the condition is unknown and would also be difficult to access in the event of a failure with potential for considerable damage to surrounding infrastructure.

Stormwater Below Ground Asset Condition



Age Based Condition:



Transportation

Service

Council provides a safe resilient and reliable road and footpath network that enables the movement of people and products, both within and through the district.

Aim

Provide a safe and resilient and reliable roading network that meets the needs of the district and is operated and enhanced in a sustainable manner at the lowest overall whole of life cost.

To provide safe spaces for “non-vehicular” modes of transport to operate.

Goals

The transport goals are;

- Our roading network is safe
- Our roads are maintained to an appropriate standard
- Our transportation network is being maintained effectively
- Our customers are responded to in a timely manner

Assets

The council owns and manages:

- A vehicular network comprised of 1,191km of sealed roads, 767km of unsealed roads and 405 bridges and 149 high-capacity culverts.
- A pedestrian network comprised of 120 km (317,500) m2 of footpaths.
- 1,842km of stormwater channels and drains (mainly shallow, unlined surface water channels and kerb and channel)
- 9,265 culverts (108 km) and 1,647 other drainage assets including sumps and manholes.
- 1,414 retaining walls.
- Safety infrastructure comprised of 1,667 streetlights, 9,560 road signs, and 12,176m of rails and barriers.

The depreciated replacement value of Council’s roads and associated assets is approximately \$790 million.

Management of the transportation activity, including the maintenance and renewal of associated assets is the highest of the Council’s major activities and due to the low ratepayer base the Council is heavily reliant upon subsidies received from the NZ Transport Agency (NZTA). The change of the Base FAR from 69% to 73% is an excellent result for council increasing the affordability of its road maintenance and renewals.

Critical assets

Criticality is defined a little differently for the transport network. Because there are almost always alternate options for reaching a destination access is rarely limited. There is really only one community that can be isolated by the failure of a single route, being Herbertville Road and its bridges. All other communities have other options which while they may be lesser options they still provide that access.

In the LTP Council will be assessing the entire network for level of service requirements and specifications which will include a consideration for Criticality and so once that work is complete it will be applied to the next Transport AMP and Infrastructure Strategy. This will likely incorporate risk mitigation measures for critical assets such as a bridge on Herbertville Road might require such as more regular inspections.

Asset Groups (work Categories WC's)

To allow for the effective management of the Tararua Transportation Network, its assets or activities across the network are separated into various groupings. These groups are defined by the type of asset they are, function they serve, or the type of activities undertaken to maintain the network in general.

Groups are split into various Work Categories (WC), which are separated into the specific activities undertaken in the group (e.g. Maintenance / Renewals), e.g. sealed pavement maintenance and sealed pavement renewals, traffic services (signs) maintenance and traffic services (signs) renewals.

Each category is modelled against condition and age to produce the optimal renewal programmes. The process of renewal is the replacement and rehabilitation of assets to restore them to their original level of service (i.e., capacity or condition) as required to achieve the least whole-of-life cost. Renewal strategies are designed to provide for the progressive replacement of individual assets (or components) that have reached the end of their useful life.

Using sound strategic planning has built a long-term programme that is both fiscally responsible and addresses the key issues over the life of the AMP and a strong Cyclone Gabrielle recovery programme. Details of the individual asset categories are contained within the Transport Activity Management Plan.

Te Whai Pānga ki Te Ika a Māui i ngā Huarere

IMPACT OF THE NORTH ISLAND WEATHER EVENTS

Cyclone Gabrielle and the rainfall events preceding, and post have had a marked effect on the transport network. The Tararua District Council received \$45M for the initial response granted at 100% funding assistance rate, with a pending submission for a further \$45M for the recovery component of the event. The outcome of the FAR rate for the recovery component is yet unknown, however if this is funded at the 93% of an enhanced FAR the \$1M per annum required in council funding will have a major effect on the overall affordability of the transport programme.






Applications will be made with NZTA Waka Kotahi for bespoke funding arrangements into the new LTP period. Beyond this there will be a requirement to review levels of service and the period of the recovery works i.e., scaling the works over a 6–9-year recovery period to reduce the funding required of between \$333K to \$500K annually.

The incorporation of renewal projects with that of capital projects such as route 52 is expected to produce efficiencies in the renewal and capital programmes. The focus on drainage assets is incorporated into the Cyclone Gabrielle recovery and essential in providing whole of route resilience.

Ā Mātou Wero Tūāhanga Matua

OUR KEY INFRASTRUCTURE CHALLENGES

There are numerous challenges that could impact the Tararua District’s infrastructure, service delivery, and investment planning over the next 30 years. This in turn impacts on Council’s ability to achieve its vision of **We thrive together. Vibrant, connected communities where our land and waters are nurtured, and our people flourish.** The following section discusses the main challenges for our infrastructure and service delivery. These have been categorised into the following overarching themes:

-  **Affordability**
-  **Infrastructure Age and Condition**
-  **District Growth**
-  **Climate Change and Natural Hazards**
-  **Legislative Change**

Key challenges are detailed in the tables below, including the associated level of service impact, timing of this impact, level of uncertainty, and the infrastructure activity(s) impacted.



Water



Wastewater



Stormwater





Roading

Affordability

TABLE 7: AFFORDABILITY CHALLENGES

Funding Depreciation

<i>Description</i>	Roads, footpaths, bridges, drainage, signs, rails, markings		
<i>Impact</i>	To ensure public roads and footpaths are safe, reliable, and resilient.		
<i>LoS Change</i>	<i>Timing</i>	<i>Uncertainty</i>	<i>Activity</i>
Potential Decrease	Long Term Next 30 years		

Small and Ageing Population

Description The Tararua district is geographically large but has a small and dispersed population. Our District includes a large rural road network and multiple small towns each with their own water and/or wastewater schemes.

Our population is also ageing over the next 30 years.

Impact The low number of ratepayers relative to the number of schemes creates challenges in terms of delivering a safe and reliable service that meets regulatory requirements and is affordable to our ratepayers.

We will have more residents with fixed incomes who may be less able to absorb the costs of increased service levels.

LoS Change	Timing	Uncertainty	Activity
Potential Decrease	Medium Term Next 10 years		

Access to Funding Subsidies

Description Subsidies and grant funding received from central government departments are crucial to Council delivering expected service levels.

Due to our small local rate payer base relative to the size of our large road network, Council are reliant on National Land Transport Fund subsidies to fund the transportation activity. This is currently set at 73%.

Impact A reduction in this funding would have significant financial impacts. This could result in increased rates and/or loan funding, on the feasibility and/or timing of works, and/or a reduction of service levels.

It is expected there will be no further government subsidies for three waters investment.

LoS Change	Timing	Uncertainty	Activity
Potential Decrease	Medium Term Next 10 years		

Infrastructure Age and Condition



TABLE 8: INFRASTRUCTURE AGE AND CONDITION CHALLENGES

Asset Form / Design

Description The historic design of our core infrastructure networks has resulted in a form and/or capacity that has vulnerabilities and is unlikely to meet future demands.



Impact This results in high operating and maintenance costs, as well as significant capital investment needs to bring the infrastructure in line with modern day standards.

For roads, the inconsistency of road form and safety provisions leads safety issues and crashes.

<i>LoS Change</i>	<i>Timing</i>	<i>Uncertainty</i>	<i>Activity</i>
Probable Decrease	Short Term (next 3 years)		

Description Large ageing bridge stock designed to lower capacity than current standards.



Impact We are at risk of being unable to allow passage to the new high productivity vehicles.

<i>LoS Change</i>	<i>Timing</i>	<i>Uncertainty</i>	<i>Activity</i>
Probable Decrease	Short Term (next 3 years)		

Description Tararua’s road network has developed over time with inconsistent road form. Investment in safety improvements have been reactive and make-shift, stemming from customer requests, leading to further inconsistencies on the road network.

Impact The inconsistency of road safety provisions results in an unintuitive road network for motorists, which can become confusing and lead to crashes.



LoS Change **Timing** **Uncertainty** **Activity**

Potential Decrease Short Term
(next 3 years)  

Description Our urban stormwater networks are basic, with issues of underperformance due to unfit form, high volumes of water entering the townships from surrounding rural areas, historic combined systems, and identified weak points.

Impact Results in flooding as well as potential public health and safety issues. Significant investment would be required to improve the infrastructure to level that meets our community’s expectations, which is currently seen as not being affordable.

LoS Change **Timing** **Uncertainty** **Activity**

Probable Decrease Short Term
(next 3 years)  

Description Footpath ownership has driveway portions of footpaths under property owner maintenance and renewal.



Impact Results in inconsistent footpath length and hazardous sections where not maintained by the owners the impact is;

Owners forced to upgrade sections, resulting in enforcement and unhappy customers.

Council ownership and repairs resulting in cost to ratepayers.

Not addressed and a safety hazard.

LoS Change **Timing** **Uncertainty** **Activity**

Probable Decrease Short Term
(next 3 years)  

Asset Age Data

Description Many assets (especially reticulation) have little age information, so robust financial planning is difficult.

Impact If assumptions are incorrect, there may be a shortfall in depreciation reserves resulting in increases to rates and/or loan funding, and reduced service levels.

<i>LoS Change</i>	<i>Timing</i>	<i>Uncertainty</i>	<i>Activity</i>
Potential Decrease	Medium Term Next 10 years		

Asset Condition & Performance Data

Description For some asset types there is currently limited robust condition and/or performance information, and so assumptions and age-based condition models are used to predict required investment needs.

Impact If asset condition is poorer than assumed, increased investment may be required to ensure delivery of expected service levels, resulting in impacts on rates and/or loan funding.

<i>LoS Change</i>	<i>Timing</i>	<i>Uncertainty</i>	<i>Activity</i>
Potential Decrease	Medium Term Next 10 years		

Condition of Critical Assets

Description

Water Supply and wastewater infrastructure networks include critical assets that are in poor condition, are under performing, and/or are not well understood. Whilst our approach to identification and management of critical assets is still maturing, progress is needed to ensure the risk to service levels and affordability are appropriately managed.

The Dannevirke and Woodville Impounded Reservoirs/Dams were constructed for storage of untreated water to enhance the resilience of the town water supplies. These dams serve as a strategic buffer, offering a reliable, although limited, water source during events of high surface water turbidity, or insufficient water such as from low river flow, or drought conditions.

Impact

As our assets age, they are more likely to fail which will result in service interruptions. These unplanned water outages will become increasingly unacceptable for our residents and businesses. There may also be increased operational costs with responding to the breakages as well as major leakages.

In 2020/21, the Dannevirke Dam suffered damage following severe drought due to the inlet design not being sufficiently supported. Council is considering options to improve resilience to reduce reliance on the Dannevirke Dam including exploration for bore water, new membrane treatment, and additional treated water storage.

Significant renewal investment will be required over the next 30 years to prevent impacts on service levels.

LoS Change

Timing

Uncertainty

Activity

Potential Decrease

Medium Term
Next 10 years



Description

Full network inspection of 100% of culverts has determined a considerable number in very poor condition

Impact

Renewal investment will be required to ensure network resilience.

LoS Change

Timing

Uncertainty

Activity

Potential Decrease

Medium Term
Next 10 years





District Growth

TABLE 9: DISTRICT GROWTH CHALLENGES

Projected Population Growth

Description Post decades of minimal growth statistics show a 14% population increase projected. Council has determined that the Most Likely Scenario is a medium growth scenario, based on forecasts prepared for the Long-Term Plan. Growth would be seen with a population of 20,650 in 2038 (8,300 households).



Impact Increased growth will increase demand on our existing infrastructure networks, particularly in urban areas. This will put more strain on the historically designed systems and create demand for additional infrastructure and/or improved service levels. Mitigating these impacts is likely to place considerable pressure on already constrained funds.

<i>LoS Change</i>	<i>Timing</i>	<i>Uncertainty</i>	<i>Activity</i>
Potential Decrease	Medium Term Next 10 years		

Urban Development

Description Increasing urban (and fringe urban) development, including infill housing and new subdivisions, is expected because of population growth, requiring additional infrastructure capacity.

Impact This can also result in pressure on Council to extend existing networks so that these developments can connect to town water supply and wastewater networks.



<i>LoS Change</i>	<i>Timing</i>	<i>Uncertainty</i>	<i>Activity</i>
Potential Decrease	Medium Term Next 10 years		

Rural Land Use Change

Description Increasing land use change is increasing demand on core infrastructure, especially rural roads. Heavy vehicle movements are planned to increase significantly because of forestry harvesting and the planned development of windfarms.

Impact This will increase safety risk and deterioration of pavements, requiring increasing maintenance investment needs and advancing renewal timeframes.

LoS Change *Timing* *Uncertainty* *Activity*

Potential Decrease	Medium Term Next 10 years		
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Climate Change and Natural Hazards

TABLE 10: CLIMATE CHANGE AND NATURAL HAZARDS CHALLENGES

Earthquakes

Description Our District is in a region with high earthquake risk. Our water supply and wastewater reticulation networks are vulnerable to damage from earthquakes. This may cause major disruption to the roading network due to loss of bridges or because of severe damage to roads.



Impact These events can cause severe damage to infrastructure and disruption of service.
The number and severity of these events in New Zealand would make insurance increasingly difficult to obtain at an affordable level.



<i>LoS Change</i>	<i>Timing</i>	<i>Uncertainty</i>	<i>Activity</i>
Potential Decrease	Long Term Next 30 years		

Increased Heavy Rain Events



Description During wet weather events significant amounts of stormwater enters our stormwater system or infiltrates our wastewater systems, increasing the volume of water that needs to be treated and, in some cases, overloads of our networks. Due to the current form and performance of our stormwater networks, however, we are limited in our remedial options.

Impact These events can cause severe damage to infrastructure and disruption of service.
Without planned and targeted improvements, it is expected that this will become more of an issue as climate change increases the frequency and intensity of wet weather events.



<i>LoS Change</i>	<i>Timing</i>	<i>Uncertainty</i>	<i>Activity</i>
Probable Decrease	Medium Term Next 10 years		

<i>Description</i>	Council has numerous roads that are located on unstable land that is prone to landslides or land movement in wet conditions		
<i>Impact</i>	This can result in damage to our road network affecting reliability and resilience of service.		
<i>LoS Change</i>	<i>Timing</i>	<i>Uncertainty</i>	<i>Activity</i>
Probable Decrease	Medium Term Next 10 years		

Drought Conditions

<i>Description</i>	Increases in long dry periods will put significant pressure on our already stretched summer water supplies.		
<i>Impact</i>	This pressure is already causing restrictions to be enforced during the summer periods.		
<i>LoS Change</i>	<i>Timing</i>	<i>Uncertainty</i>	<i>Activity</i>
Probable Decrease	Short Term (next 3 years)		

Sea Level Rise

<i>Description</i>	Sea level rise along our coastal environment presents a risk to infrastructure. Council owns one reticulated system that services a coastal settlement - Ākitio.		
<i>Impact</i>	It may be impacted with water inundation as it is located on low lying land.		
<i>LoS Change</i>	<i>Timing</i>	<i>Uncertainty</i>	<i>Activity</i>
Potential Decrease	Long Term Next 30 years		

Decision making

Description There is a high level of uncertainty in forecasting climate change especially at the local level and the science continues to rapidly develop. Council must make decisions now about infrastructure that will be subject to this uncertain climate change

Impact Decision making that does not adequately account for climate change impacts will contribute to worsening environmental and community resilience.

<i>LoS Change</i>	<i>Timing</i>	<i>Uncertainty</i>	<i>Activity</i>
Probable Decrease	Decisions now – Impact Long Term		

Legislative Changes

TABLE 11: LEGISLATIVE CHANGES CHALLENGES

Water Reform

Description Taumata Arowai is Aotearoa’s dedicated potable water services regulator to oversee and enforce a new drinking water regulatory framework, with a future oversight role for wastewater and stormwater networks. This will put more focus on compliance with drinking water and environmental

Impact It will result in water and wastewater treatment plants requiring upgrades and increased operational, reporting and compliance costs.

LoS Change

Timing

Uncertainty

Activity

Potential Increase

Short Term
(next 3 years)



Freshwater Management

Description Legislative changes are increasing required standards and compliance, especially regarding impacts on freshwater. The National Policy Statement for Freshwater Management and Horizon’s Regional Council One Plan are impacting consents for water take and wastewater discharge.

Planned reform of the Resource Management Act is also likely to have impacts in terms of planning and consenting of core infrastructure activities, however this is currently unknown.

Impact Conditions of resource consents may be altered significantly resulting in major investments to meet conditions. Council may have to consider alternative systems such as combining existing schemes through piping wastewater to another treatment plant.

This could also impact operating costs of the schemes by potentially requiring treatment / filtration of discharges.

The length of consent renewals could be reduced to 10 years or less. This would result in the need to budget for many more renewal processes.

Changing regulations and compliance could also result in some forms of intensive farming becoming un-profitable in Tararua, and a general reduction in farming income. This could have a major impact on the district economy, and the ability to pay rates over time.

LoS Change

Potential Increase

Timing

Short Term
(next 3 years)

Uncertainty





Activity



Drinking Water Standards

Description Some of our water supply schemes do not currently comply with the NZ Drinking Water Standards, particularly with the more recently introduced requirements.


Impact Without significant investment we will continue to not comply with the NZ Drinking Water Standards and will not achieve our service level expectations.

<i>LoS Change</i>	<i>Timing</i>	<i>Uncertainty</i>	<i>Activity</i>
Potential Increase	Short Term (next 3 years)		

Government Policy Statement on Land Transport

Description Maintaining the road network is a priority in GPS 2024. To fix the increasing number of potholes on our roads that has occurred in recent years, and to prevent further deterioration in roading quality, GPS 2024 increases road maintenance funding by \$640 million, compared to the draft GPS released by the previous Government in August 2023.



Impact Changes in government can result in significant changes to the priorities in the Government Policy Statement, this in turn impacts on Waka Kotahi’s investment prioritisation and application processes. If our programme no longer aligns with the GPS, Waka Kotahi may limit subsidy funding. A focus on renewals and maintenance may benefit TDC, due to the alignment with the new GPS as there are limited other programmes e.g. walking and cycling

<i>LoS Change</i>	<i>Timing</i>	<i>Uncertainty</i>	<i>Activity</i>
Potential Increase	Short Term (next 3 years)		

One Network Framework

Description Waka Kotahi NZ Transport Agency and Local Government New Zealand have implemented the One Framework (ONF) system so that road users will have consistent customer levels of service across the country. The One Network Framework project has now commenced to reflect role transport corridors play in the movement of people and goods across all land transport modes, as well as place through the social spaces they provide and their role in providing access to adjacent land.



Impact Like other Road Controlling Authorities, we are still in the process of fully understanding the implications on our District. The proposed new road classification may result in lower customer levels of service in the future (for example, road roughness) for some of our extensive road network.

<i>LoS Change</i>	<i>Timing</i>	<i>Uncertainty</i>	<i>Activity</i>
Potential Decrease	Short Term (next 3 years)		

Freight Allowances

Description The Ministry of Transport is steadily increasing the amount of weight allowed to be carried by trucks on all networks. This includes initiatives such as 50 Max (50 tonnes); HPMV (62 tonnes) and 46 tonnes as of right.

Impact Weight restriction changes have the potential to increase the deterioration rate on our bridge network and/or require additional investment for infrastructure improvements.



<i>LoS Change</i>	<i>Timing</i>	<i>Uncertainty</i>	<i>Activity</i>
Potential Increase	Short Term (next 3 years)		

Road Safety

Description There is an increased focus on road safety nationally and the Government has removed the new road safety strategy, Road to Zero. Future road safety programmes will be funded via maintenance and renewals.

Impact The focus areas that will have the greatest impact include investing in infrastructure improvements and speed management, vehicle safety, work related road safety, road user choices and system management.

LoS Change *Timing* *Uncertainty* *Activity*

Potential Increase Short Term (next 3 years)  

Tā Mātou Ara kia Whakahaerehia Ngā Wero

OUR APPROACH TO ADDRESSING CHALLENGES

With any planning around infrastructure there is a level of uncertainty with multiple options to deliver the service standards current and future generations will want and are willing to pay for. To develop options to address the challenges we have identified; we have utilised data analysis and management approaches detailed in our Activity Management Plans.

Our principal options in managing the challenges we face are summarised in the tables below. This includes the implications of the options and alignment to both asset type, our key challenges, and to our management principles.

Symbols used in the following table to represent the linkages:



Water



Wastewater



Stormwater



Roading



Affordability



Infrastructure Age and Condition



District Growth



Climate Change and Natural Hazards



Legislative Change



Evidence based decision making



Proactive Management



Investment in Resilient and Sustainable Infrastructure



Manage within Existing Boundaries



Aim to deliver existing service levels

Ongoing asset maintenance and renewal

Implications of Option

Enabling sustainable delivery of service levels for the least whole of life cost

Indicative Timeframe

Ongoing from Year 1

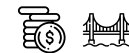
Indicative Cost

Average of \$22.5M per year

Asset Type



Key Challenge



Management Principle



Linkage to

Business continuity improvements

Implications of Option

The planning of continuity improvements is a mitigation for natural disaster (and other sudden events). Business continuity planning will allow Council to better prepare for, respond to, and recovery from business interruptions to critical services.

Indicative Timeframe

Ongoing from Year 1

Indicative Cost

TBC

Linkage to

Asset Type



Key Challenge



Management Principle



Increased investment and focus on asset data improvements

Implications of Option

Improvements to our asset understanding will enable more robust investment planning and decision making, ensuring an optimal long-term balance between service levels, cost of service and risk.

Indicative Timeframe

Ongoing from Year 1

Indicative Cost

TBC

Linkage to

Asset Type



Key Challenge



Management Principle



Improvements to infrastructure asset management maturity

Implications of Option

Improvements to our asset management practices and processes, combined with increased evidenced based decisions, will support robust funding applications and ensure rigour is applied to long term waters capital expenditure in line with the Growth Strategy and District Plan reviews.

Indicative Timeframe

Ongoing from Year 1

Indicative Cost

TBC

Linkage to

Asset Type



Key Challenge



Management Principle



Asset performance assessment, modelling, and master planning

Implications of Option

Understanding the performance of our infrastructure assets/ networks and development master plans will support more robust and effective evidenced based decisions when planning our long-term infrastructure needs, priorities, and investment.

Indicative Timeframe

Ongoing from Year 1

Indicative Cost

TBC

Asset Type



Key Challenge



Management Principle



Linkage to

Wastewater Treatment Plant Upgrades

Implications of Option

Upgrades required to meet resource consent requirements. Projects will be focused around improving treatment processes to improve discharge quality.

Indicative Timeframe

Ongoing from Year 1

Indicative Cost

\$13.47M

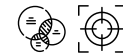
Asset Type



Key Challenge



Management Principle



Linkage to

Resource Consent Renewals

Implications of Option

Renewal of water take and wastewater discharge consents, required to ensure ongoing delivery of water and wastewater activities.

Indicative Timeframe

Periodically from Year 1

Indicative Cost

\$1.76M

Asset Type



Key Challenge



Management Principle



Linkage to

Inflow and infiltration minimisation

Implications of Option

Development and implementation of strategy to address current inflow and infiltration issues using the information gathered in the Master Plan project.

Indicative Timeframe

Ongoing from Year 1

Indicative Cost

\$541K

Linkage to

Asset Type



Key Challenge



Management Principle



Water backflow prevention improvements

Implications of Option

Assessment and rectification of properties requiring water backflow prevention, addressing potential health risks, and meeting our obligations as a water supplier.

Indicative Timeframe

Years 1-5

Indicative Cost

\$888K

Linkage to

Asset Type



Key Challenge



Management Principle



Water storage increase

Implications of Option

Increase water storage capacity to 3-days at Ākitio and Pongaroa.

Indicative Timeframe

Years 1-4

Indicative Cost

\$107K

Linkage to

Asset Type



Key Challenge



Management Principle



Infrastructure network extensions

Implications of Option

Extension of water, wastewater and/or stormwater networks where required to enable growth within existing service zones.

Indicative Timeframe

Ongoing from Year 1

Indicative Cost

\$13.841M

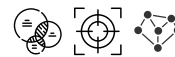
Asset Type



Key Challenge



Management Principle



Linkage to

Treatment plant telemetry improvements

Implications of Option

Continue with the upgrade of our water and wastewater treatment telemetry to enable resource consent and NZ Drinking Water Standards requirements to be met.

Indicative Timeframe

Ongoing from Year 1

Indicative Cost

\$1.154M

Asset Type



Key Challenge



Management Principle



Linkage to

Demand Management improvements

Implications of Option

Development and implementation of strategy to address current water supply and demand management challenges, including universal metering to improve the resilience and reliability of the water service.

Indicative Timeframe

Year 1, then ongoing

Indicative Cost

\$14.9M

Asset Type



Key Challenge



Management Principle








Linkage to

Ngā Hinonga Hiranga SIGNIFICANT PROJECTS

Each of the options in the previous section that address our challenges, requires distinct pieces of work and there are many. In order to not overload this document, we have highlighted the significant projects and key aspects of the activities of 3 Waters and Transportation. Each project has had one or more other options considered in some depth in the Asset Management Plan and summarised here.

Symbols used in the following table to represent the linkages:

-  **Affordability**
-  **Infrastructure Age and Condition**
-  **District Growth**
-  **Climate Change and Natural Hazards**
-  **Legislative Change**

Water Projects

Ensure Continuity of Services & meet LoS needs

Project Selected

W01 - District Water Reticulation Renewals

Project Description

Increased programme of renewals of end of life assets based on condition assessments.

Selected Option Timeline

2024/25 to 2033/34

Alternate Project Options Considered

Continued or lower investment. Not chosen due to poorer outcome for retic network.

Challenge Addressed



Project Selected

W03.1 & W03.2 Dannevirke Transmission Pipe

Project Description

Renew critical asset before end of life and provide resilience to this critical link between plant and reticulation network.

Selected Option Timeline

2026/27 to 2030/31

Alternate Project Options Considered

To not renew the pipe and wait for failure. Not chosen due to LoS risk and extra cost of reactive renewal.

Challenge Addressed



Project Selected

Wo4 - Dannevirke Additional Treated Water Tank

Project Description

Current reservoir is at end of life and replacement would maintain required 2 days storage, provide resilience to the system.

Selected Option Timeline

2024/25 to 2024/25

Alternate Project Options Considered

To not renew the reservoirs and wait for failure. Not chosen due to LoS risk and extra cost of reactive renewal.

Challenge Addressed



Project Selected

Wo5 - Woodville Water Treatment Plant Reservoir Replacement

Project Description

Replace earthquake prone and inaccessible structures at end of life.

Selected Option Timeline

2025/26 to 2028/29

Alternate Project Options Considered

To not renew the reservoirs and wait for failure. Not chosen due to LoS risk and extra cost of reactive renewal.

Challenge Addressed



Project Selected

Wog - Eketahuna Reservoir Replacement

Project Description

Replace end of life structures to ensure sufficient supply for the town.

Selected Option Timeline

2026/26 to 2027/28

Alternate Project Options Considered

To not renew the reservoirs and wait for failure. Not chosen due to LoS risk and extra cost of reactive renewal.

Challenge Addressed



Project Selected

W12 - Pahiatua Water Treatment Transmission Pipe

Project Description

Renewal of failing transmission pipe between plant and storage due to multiple ongoing failures.

Selected Option Timeline

2025/26 to 2026/27

Alternate Project Options Considered

To continue to patch repair the pipe. Not chosen due to LoS risk and extra cost of being reactive.

Challenge Addressed



Resilience, Growth & management of Climate and Legal risk

Project Selected

Wo6 - Woodville Alternate Water Source

Project Description

Alternate bore supply to supplement surface water take to address capacity and resilience issues.

Selected Option Timeline

2024/25 to 2028/29

Alternate Project Options Considered

To continue as is. Not chosen as a viable option due to Risk to LoS, plus the fact that we can't address Resilience, Growth, Climate or Legal risks.

Challenge Addressed



Project Selected

Wo7 - District Water Reticulation Upgrades & Extensions

Project Description

To meet anticipated growth needs in urban zoned land.

Selected Option Timeline

2024/25 to 2031/32

Alternate Project Options Considered

To continue as is. Not chosen as a viable option due to Risk to LoS, plus the fact that we can't address Resilience, Growth, Climate or Legal risks.

Challenge Addressed



Project Selected

Wo2 - Minor Dannevirke Impounded Water supply improvements

Project Description

Minor improvements to remain damage, meet new dam regulations and mitigate risk.

Selected Option Timeline

2026/27 to 2027/28

Alternate Project Options Considered

To continue as is. Not chosen as a viable option due to Risk to LoS, plus the fact that we can't address Resilience, Growth, Climate or Legal risks.

Challenge Addressed



Project Selected

Wo8 - Universal Metering

Project Description

A demand management solution to address resilience and growth issues.

Alternate Project Options Considered

To continue as is. Not chosen as a viable option due to Risk to LoS, plus the fact that we can't address Resilience, Growth, Climate or Legal risks.

Selected Option Timeline

2025/26 to 2033/34

Challenge Addressed



Project Selected

W10 - Backflow Prevention

Project Description

Development of a strategy to safe guard the retic network and mitigate a legal risk.

Alternate Project Options Considered

To continue as is. Not chosen as a viable option due to Risk to LoS, plus the fact that we can't address Resilience, Growth, Climate or Legal risks.

Selected Option Timeline

2024/25 to 2028/29

Challenge Addressed



Project Selected

W11 - Reticulation Pressure Management

Project Description

Reduction of pressure in selected locations to increase network resilience.

Alternate Project Options Considered

To continue as is. Not chosen as a viable option due to Risk to LoS, plus the fact that we can't address Resilience, Growth, Climate or Legal risks.

Selected Option Timeline

2024/25 to 2026/27

Challenge Addressed



Project Selected

W13 - Dannevirke Gregg St Booster Station

Project Description

Increase of pressure at Gregg St for network resilience and growth needs.

Alternate Project Options Considered

To continue as is. Not chosen as a viable option due to Risk to LoS, plus the fact that we can't address Resilience, Growth, Climate or Legal risks.

Selected Option Timeline

2026/27 to 2026/27

Challenge Addressed



Waste Water Projects

Meet consent conditions

Project Selected

WWo3 - Dannevirke Wastewater Treatment Plant irrigation discharge to land

Project Description

Upgrades of plant/process in order to meet tighter discharge consent conditions.

Selected Option Timeline

2026/27 to 2028/29

Alternate Project Options Considered

To continue as is. Not chosen as a viable option due to risk to continuity of service, plus the fact that we can't address Resilience, Growth, Climate, Environmental or Legal risks.

Challenge Addressed



Project Selected

WWo4 - Dannevirke Waste Water Plant Upgrades

Project Description

Upgrades of plant/process in order to meet tighter discharge consent conditions.

Selected Option Timeline

2027/28 to 2028/29

Alternate Project Options Considered

To continue as is. Not chosen as a viable option due to risk to continuity of service, plus the fact that we can't address Resilience, Growth, Climate, Environmental or Legal risks.

Challenge Addressed



Project Selected

WWo5 - Norsewood Wastewater Treatment Plant upgrades

Project Description

Upgrades of plant/process in order to meet tighter discharge consent conditions.

Selected Option Timeline

2026/27 to 2026/27

Alternate Project Options Considered

To continue as is. Not chosen as a viable option due to risk to continuity of service, plus the fact that we can't address Resilience, Growth, Climate, Environmental or Legal risks.

Challenge Addressed



Project Selected

WWo6 - Ormondville Wastewater Treatment Plant upgrades & wetland

Project Description

Upgrades of plant/process in order to meet tighter discharge consent conditions.

Selected Option Timeline

2025/26 to 2028/29

Alternate Project Options Considered

To continue as is. Not chosen as a viable option due to risk to continuity of service, plus the fact that we can't address Resilience, Growth, Climate, Environmental or Legal risks.

Challenge Addressed



Project Selected

WWo7 - Pongaroa Wastewater treatment plant upgrades

Project Description

Upgrades of plant/process in order to meet tighter discharge consent conditions.

Selected Option Timeline

2024/25 to 2028/29

Alternate Project Options Considered

To continue as is. Not chosen as a viable option due to risk to continuity of service, plus the fact that we can't address Resilience, Growth, Climate, Environmental or Legal risks.

Challenge Addressed



Project Selected

WWo9 - Eketahuna Wastewater treatment plant upgrades

Project Description

Upgrades of plant/process in order to meet tighter discharge consent conditions.

Selected Option Timeline

2025/26 to 2027/28

Alternate Project Options Considered

To continue as is. Not chosen as a viable option due to risk to continuity of service, plus the fact that we can't address Resilience, Growth, Climate, Environmental or Legal risks.

Challenge Addressed



Project Selected

WW10 - Pahiatua Wastewater Treatment plant upgrades

Project Description

Upgrades of plant/process in order to meet tighter discharge consent conditions.

Selected Option Timeline

2024/25 to 2025/26

Alternate Project Options Considered

To continue as is. Not chosen as a viable option due to risk to continuity of service, plus the fact that we can't address Resilience, Growth, Climate, Environmental or Legal risks.

Challenge Addressed



Project Selected

WW11 & WW12 - Woodville Wastewater Treatment plant upgrades & Wetland

Project Description

Upgrades of plant/process in order to meet tighter discharge consent conditions.

Selected Option Timeline

2025/26 to 2027/28

Alternate Project Options Considered

To continue as is. Not chosen as a viable option due to risk to continuity of service, plus the fact that we can't address Resilience, Growth, Climate, Environmental or Legal risks.

Challenge Addressed



Ensure Continuity of Services, growth & meet LoS needs

Project Selected

WWo1 - District Wastewater Reticulation Renewals

Project Description

Increased programme of renewals of end of life assets based on condition assessments.

Selected Option Timeline

2024/25 to 2033/34

Alternate Project Options Considered

Continued or lower investment. Not chosen due to poorer outcome for retic network.

Challenge Addressed



Project Selected

WWo2 - District Wastewater Reticulation upgrades and extensions

Project Description

Upgrades and extensions of the network to meet anticipated growth needs in urban zoned land.

Selected Option Timeline

2024/25 to 2031/32

Alternate Project Options Considered

To continue as is. Not chosen due to risk to LoS, can't address Resilience, Growth, Climate or Legal risks.

Challenge Addressed



Project Selected

WWo8 - District Infiltration and Inflow strategy and implementation

Project Description

Develop and develop a plan to remove 'clean' water from the wastewater reticulation network to reduce volumes required to treat.

Selected Option Timeline

2024/25 to 2033/34

Alternate Project Options Considered

To continue as is. Not chosen because minimisation of this will enable a lower cost upgrade path for the WW treatment plants.

Challenge Addressed



*Project Selected***WW13 - District Sludge Disposal Facility / Cells***Project Description*

Develop and implement a methodology to remove and treat sludge.

Selected Option Timeline

2026/27 to 2026/27

Alternate Project Options Considered

To continue as is. Not chosen due to increasing volume of sludge and high cost and cultural impact of current disposal methods.

Challenge Addressed

Stormwater Projects

Ensure Continuity of Services, growth & meet LoS needs

*Project Selected***SWo1 - District Stormwater Reticulation Renewals***Project Description*

Increased programme of renewals of end of life assets based on condition assessments.

Selected Option Timeline

2024/25 to 2033/34

Alternate Project Options Considered

Continued or lower investment. Not chosen due to poorer outcome for retic network.

Challenge Addressed*Project Selected***SWo2 - District Stormwater Development***Project Description*

Upgrades and extensions of the network to meet anticipated growth needs in urban zoned land.

Selected Option Timeline

2024/25 to 2026/27

Alternate Project Options Considered

To continue as is. Not chosen due to risk to LoS, can't address Resilience, Growth, Climate or Legal risks.

Challenge Addressed

Transportation

Alignment with Benefit Statements - Resilience, Customer Satisfaction, Environment, Safety and Asset Stewardship principles

Project Selected

Sealed Roads - Option 3 - Asset Preservation Strategy

Project Description

A change to end the ‘sweating the asset’ approach to a more proactive plan. Increase to reseals in particular to preserve water proofness.

Selected Option Timeline

2024/25 to 2026/27

Alternate Project Options Considered

Option 1 - Maintain Funding as per previous year

Option 2 - Long term implementation of Asset Preservation Strategy

Option 4 - Low Risk Modelled Requirement.

Not chosen as Option 3 provides best balanced approach.

Challenge Addressed



Project Selected

Unsealed Road - Option 1 - Maintain Funding and Strategy

Project Description

Continue with the current approach applying running course with a slight funding increase to ensure resilience is a focus

Selected Option Timeline

2024/25 to 2026/27

Alternate Project Options Considered

Option 2 - Same as option 1 but with higher cost pressure assumptions.

Not chosen due to willingness to accept slightly more risk in this activity.

Challenge Addressed



Project Selected

Structures - Option 1 - Increase Funding for Bridges

Project Description

An increase in bridge renewals to address known non-compliance issues.

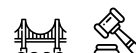
Selected Option Timeline

2024/25 to 2026/27

Alternate Project Options Considered

Continue as is. No feasible alternative other than staying non-compliant and having resilience risk.

Challenge Addressed



*Project Selected***Drainage - Option 3 - Increase funding.***Project Description*

Increase in operations and renewals investment to increase resilience and environmental outcomes

Selected Option Timeline

2024/25 to 2026/27

Alternate Project Options Considered

Option 1 - Maintain funding and Strategy as per previous years,

Option 2 - Maintain funding and alter Strategy. Not chosen due to the large amount of poor condition drainage requiring intervention and requirement to improve network resilience through proper drainage on the network.

Challenge Addressed

Te Whakapaetanga Whakangao Tūāhanga

INFRASTRUCTURE

INVESTMENT FORECASTS

Most Likely Scenario

The provision of fit for purpose, affordable infrastructure is key to delivering on the Council's Vision. Many of the infrastructure renewal projects of Council are small, have relatively little impact on the delivery of agreed levels of service, and are therefore "business as usual" for Council. Our most likely scenario is to deliver to current day standards while remaining affordable for our community.

The assessment projects in three waters to address areas such as inflow, infiltration or leak reduction in waters will have flow on effects in the investment in future projects. The success of the reduction in these areas will determine future requirements for investment and the added capacity gained in the existing infrastructure.

Confidence in 3-Waters asset data is medium-low, with known gaps and inaccuracies needing to be rectified before reliance on modelling. With increased recent transport data e.g., bridge asset information, modelling of investment scenarios has a higher confidence. Missing or incorrect data influences the accuracy of projected renewals needs and effects on maintenance of under investment.

To achieve this scenario over the next 30 years we will focus on:

- Improving asset information and infrastructure asset management maturity
- Improving our delivery of capital projects by increasing our resources in the Project Management Office and Procurement team,

lifting our project management maturity, better project prioritisation of projects and improving our approach to market.

- Delivering ongoing maintenance and renewals programmes to meet current service levels and with a view to preventing asset consumption and preserving the assets.
- Addressing key level of service deficiencies, including:
 - Compliance with the New Zealand Drinking Water Standards Compliance with wastewater discharge resource consents
 - Minor road safety improvements
 - Adherence/compliance to resource consents and conditions
- Addressing key network performance issues, including:
 - Inflow and infiltration
 - Addressing water backflow risks
 - Leakage
- Improving service delivery resilience, including:
 - Upgrades drainage
 - Increasing water storage
- Minor network extensions to enable some growth in our larger townships in line with the urban growth strategy.
- Increased systematic use of systems and data to produce timely and accurate information.

Ngā Whakapaetanga Ōhanga

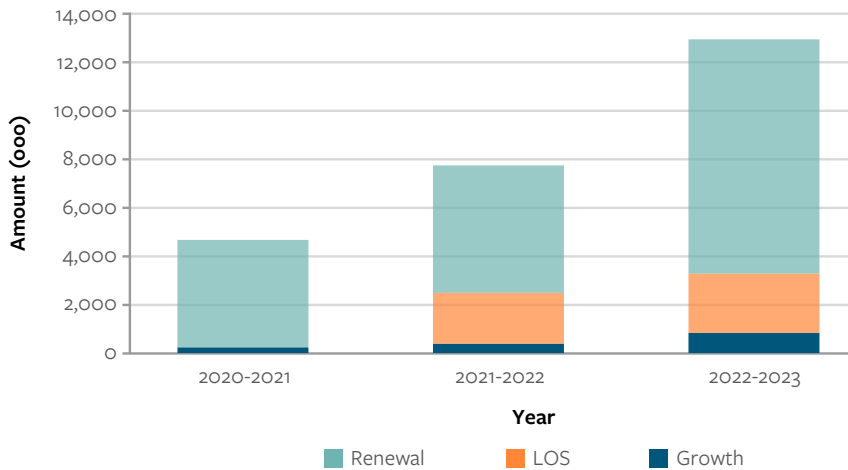
FINANCIAL PROJECTIONS

Council’s operating expenditure on infrastructure assets is forecast to steadily rise over the 30-year period because of the operating impact of investments and inflation. Transportation makes up most of the expenditure, consistent with the historical expenditure pattern of this Council, however, expenditure on the three waters is increasing proportionally as Council renews the urban piped networks.

The recovery from Cyclone Gabrielle and the deliverability of the work programme being unaffected by other events will have an effect on subsequent years and reduce the amount of carry forwards of capital projects. Measures to improve Council’s delivery of capital projects are included in this LTP and for transportation projects, there will be efficiencies gained in the concurrent delivery of renewal programmes in conjunction with the Cyclone recovery programme.

The following graphs shows the level of capital projects carried forward with significant projects being multiyear projects particularly Route 62 which was completed in financial year 2024, Wastewater treatment plant upgrades and the Dannevirke Impounded supply that are still in progress and will be completed in early years of the LTP.

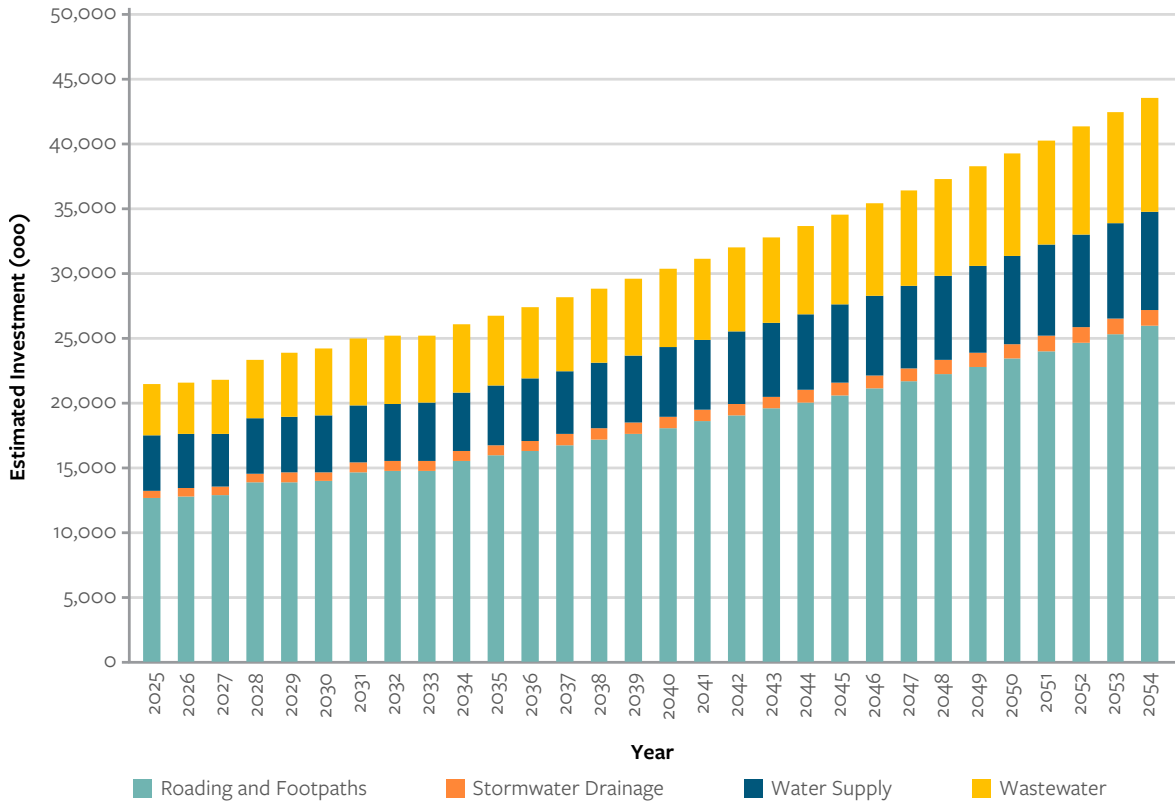
CARRY FORWARD BY YEAR



	2020-21	2021-22	2022-23
Growth	229	379	808
LOS	-	2,095	2,465
Renewals	4,448	5,281	9,704

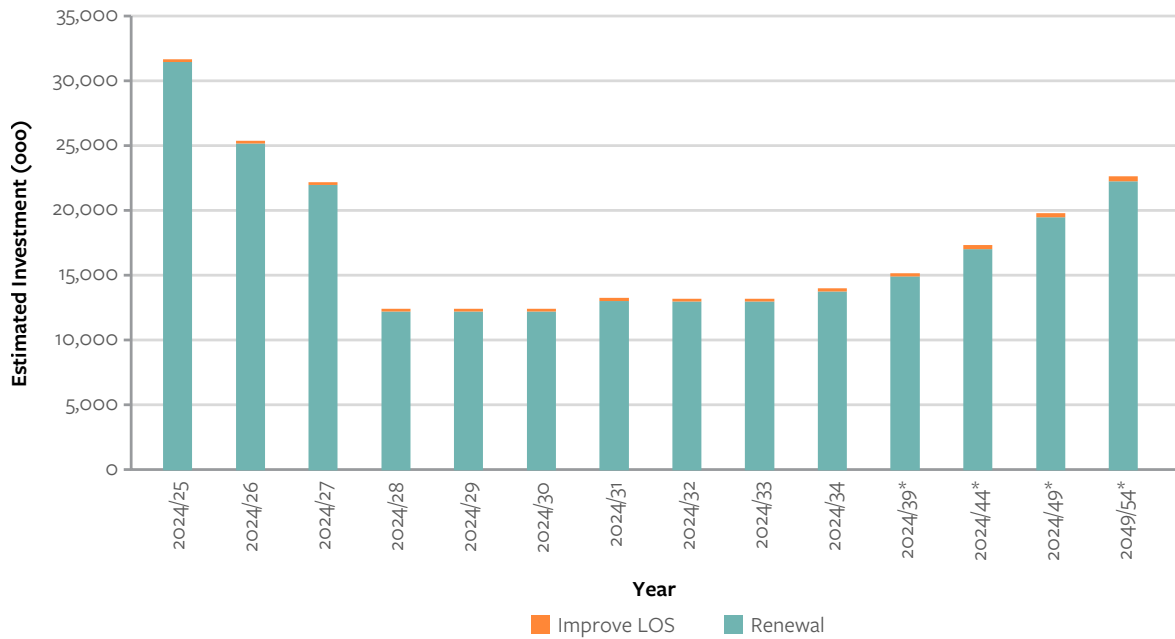
Infrastructure Expenditures

OPERATING & MAINTENANCE INVESTMENT



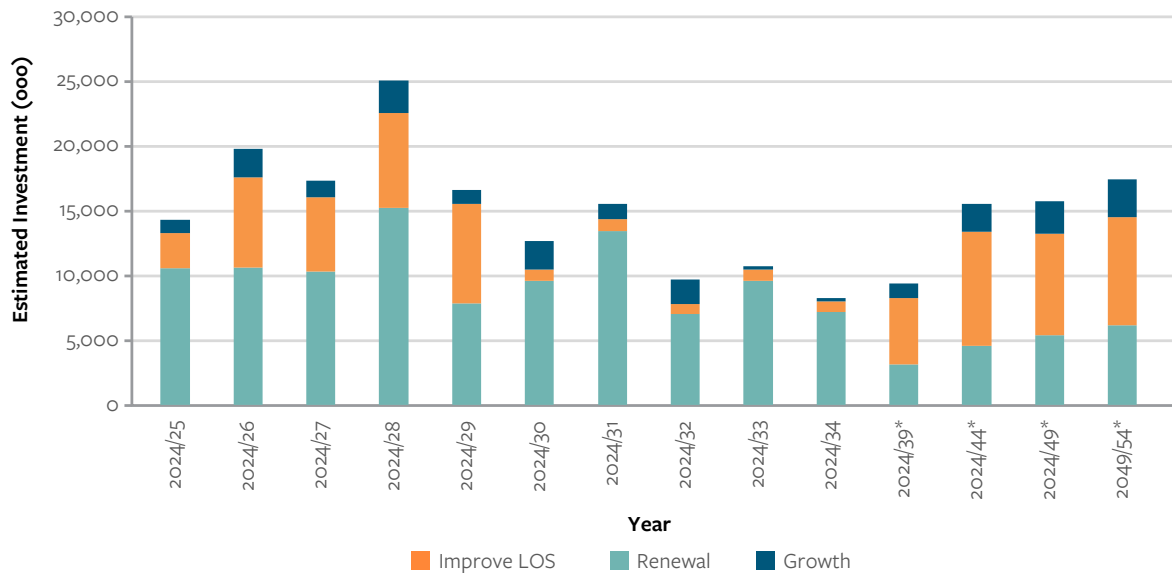
This graphs shows inflated data.

ROADING CAPITAL INVESTMENT



	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30	2030/31	2031/32	2032/33	2033/34	2034-2039*	2039-2044*	2044-2049*	2049-2054*
Renewal	31,502	25,218	22,009	12,236	12,239	12,241	13,071	13,013	13,015	13,781	14,938	17,066	19,498	22,276
Improve LOS	200	200	200	219	219	219	233	233	233	247	267	305	349	399

THREE WATERS CAPITAL INVESTMENT



	2024/25	2024/26	2024/27	2024/28	2024/29	2024/30	2024/31	2024/32	2024/33	2024/34	2034-2039*	2039-2044*	2044-2049*	2049-2054*
Renewals	10,581	10,680	10,333	15,264	7,895	9,621	13,492	7,041	9,645	7,199	3,160	4,587	5,438	6,210
LOS	2,754	6,979	5,786	7,373	7,671	891	939	786	874	816	5,153	8,845	7,842	8,352
Growth	995	2,190	1,277	2,494	1,100	2,205	1,170	1,917	253	258	1,112	2,150	2,505	2,918

* Average Capital Investment per five year period. These graphs show inflated data.

Infrastructure Growth Projects

Major Infrastructure Growth Projects

Stormwater Drainage

District Stormwater Network Development	\$787,000
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Wastewater

District development and extension of Wastewater Network	\$2,299,000
--	-------------

Dannevirke wastewater network development (extension)	\$1,132,000
---	-------------

Pahiatua Wastewater Network Development (extension)	\$306,000
---	-----------

Woodville Wastewater Network Development (extension)	\$707,000
--	-----------

Water Supplies

Dannevirke Water Network Development (extension)	\$2,030,000
--	-------------

Eketāhuna Water Network Development (extension)	\$1,357,000
---	-------------

Norsewood Pressure Management for upper and lower network	\$16,000
---	----------

Pahiatua Water Network Development (extension)	\$2,955,000
--	-------------

Woodville Water Network Development (extension)	\$2,269,000
---	-------------

Major Infrastructure Level of Service Projects

Major Infrastructure LOS Projects

Wastewater

Dannevirke Wastewater Land Irrigation Purchase	\$3,679,000
Dannevirke Wastewater Treatment Plant Upgrade	\$5,585,000
Eketāhuna Wastewater Treatment Plant Upgrade	\$2,097,000
Pahiatua Wastewater Treatment Plant Upgrade	\$2,401,000
District Sludge Disposal Facility	\$1,817,000
Woodville Wastewater Treatment Plant Upgrade	\$1,325,000
Woodville Wastewater Wetland Development	\$728,000

Water Supplies

Universal Metering Strategy and Implementation	\$4,984,000
Water - Three Waters Generators & Emergency	\$542,000
Woodville Alternate Water Source Resource Consent	\$1,331,000

Transport

Minor Safety Improvements	\$2,203,000
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Infrastructure Renewals

Infrastructure Renewals

Water Supplies	\$63,972,000
Wastewater	\$29,317,000
Transport	\$168,326,000
Stormwater	\$8,463,000

Mahere Whakawhanake IMPROVEMENT PLAN

The development of this Infrastructure Strategy is based on the existing levels of service, the best available current information, and the knowledge of Council staff. It currently provides our best estimate of expected changes over the term of the Strategy.


This Strategy is subject to periodic review and updating to improve the quality of our planning and accuracy of the financial projections. This process involves using improved knowledge of future trends and customer expectations, as well as enhanced asset management systems and data to optimise decision-making and activities, review outputs, develop strategies, introduce risk management, and extend the planning horizon.

The purpose of the Improvement Plan is to:



- Identify and develop implementation of planning processes
- Identify and prioritise ways to cost-effectively improve the quality of the Infrastructure Strategy
- Identify indicative timescales, priorities, and resources required to achieve planning objectives.

A summary of the improvement initiatives identified throughout this document are included in Table 12 Improvement Programme.

TABLE 12: IMPROVEMENT PROGRAMME

Improvement Area	Improvement Actions	Activity	Indicative Timeframe	Priority	Responsibility
Growth Strategy and District Plan review	With predicted growth now expected to have significant impacts on our infrastructure and expected levels of service, asset planning to incorporate the Growth Strategy and District Plan review into asset plans is required to enable a holistic assessment of core infrastructure and identify key infrastructure deficiencies, supporting effective prioritisation of investment.	All	2024-2027		

Improvement Area	Improvement Actions	Activity	Indicative Timeframe	Priority	Responsibility
Asset Criticality Framework	Using the Risk Management Framework we will develop an asset criticality framework that can be consistently applied across all activities. A “criticality rating” will then be assigned to all assets. Formal criticality rating system to be developed by end 2025 and criticality list to be reviewed and updated by end 2026 for use in the 2027-2030 LTP	All	2025		
Risk Identification	A full review of all infrastructure risks is to be completed in mid-LTP These risks will be updated in the Risk Register, with mitigation initiatives identified and implemented for each risk. These will then be added to the next AMP's and Infrastructure Strategy.	All	2026		
Infrastructure Assets Data	Part of the Strategy is to improve decision-making by addressing gaps in asset data. While we have made improvements to our data quality and completeness for roads in recent years, Council is now targeting further collection, in particular asset condition and performance information, validation, and analysis of the data for other activities. This will fill the gaps to inform the 2027 -2057 strategy, by providing primary evidence for infrastructure decisions.	All	2024 - 2027		
Roles & Responsibilities	Resourcing is one of the specific challenges we face, particularly to ensure that the current day-to-day activity focus is paired with the necessary long-term focus. A review of key roles and responsibilities for Infrastructure Management will be completed to ensure Council has the right levels of resourcing and capability	All	2024 - 2027		

Improvement Area	Improvement Actions	Activity	Indicative Timeframe	Priority	Responsibility
Waters resourcing	With the Repeal of the Water Service Reform legislation, a review of the structure and roles within the Alliance and council is required to ensure the structure is fit for purpose to meet the legislation revocation	3-waters	2024 - 2027		
Options Identification and Investment Decision Making	With improvement of input data and risk management approaches, we will also be reviewing our options identification, analysis, and prioritisation approach. This will ensure that decision making processes and criteria are consistent across all activities and will ensure all appropriate options are considered.	All	2024		

Āpitianga A Ngā Inenga Raraunga Whirinakitanga APPENDIX A DATA RELIABILITY RATINGS

Transportation

Sound records currently exist for asset inventory data. Network Inspectors travel the network on a cyclic basis to identify faults and defects across all assets. Faults identified through these inspections are entered into the RAMM database (referred to as the “All-faults Database”).

Technical assessment of asset management data quality is conducted through the Te Ringa Maimoa Transport Insights with the results reported on the ONRC Data Quality Dashboard. The data quality within RAMM is measured based on its accuracy, completeness, and timeliness.

The data is also measured on its adequacy for reporting against the ONRC performance measures and asset management.

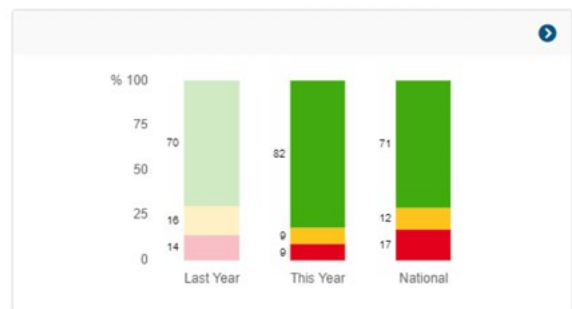
Our efforts in focusing on data quality have also shown consistent improvement with the latest results showing us ahead of the national average. This coupled with the ongoing effort to increase accuracy in the capture all our assets see us getting a clearer and clearer picture of our network. This accuracy also contributes to more accurate modelling and future planning for the network

The figure below shows the 2022-2023 Financial Year scoring.

● Major Issues ● Minor Issues ● Expected Standard



OVERALL RESULTS



Data Confidence	Inventory	Condition	Age
Sealed Roads	A – Highly Reliable	A – Highly Reliable	A – Highly Reliable
Bridges	A – Highly Reliable	A – Highly Reliable	A – Highly Reliable
Footpaths	B - Reliable	B - Reliable	C- Uncertain
Culverts	A – Highly Reliable	A – Highly Reliable	A – Highly Reliable
Retaining Walls	C- Uncertain	B – Reliable	D- Highly Uncertain

Water

Treatment Plant and Facilities

Sound records currently exist for asset inventory data. These will be further improved as part of the data migration to RAMM, alignment to the Land Information NZ metadata standard, and 3-Waters stimulus fund project to improve 3-Waters asset inventory.

Age vs expected useful life is typically used as a proxy to determine asset condition. This is validated with visual condition assessments being completed every three years, and with informal day-to-day checks from staff.

Sound records exist for asset age information. There are a disproportionate number of assets recorded as being constructed in 1980. Whilst this is immaterial, verification will be completed as part of the 3-Waters asset inventory improvements project over the next twelve months.

Network and Other Assets

Sound records currently exist for asset inventory data. These will be further improved as part of the data migration to RAMM, alignment to the LINZ metadata standard, and 3-Waters stimulus fund project to improve 3-Waters asset inventory.

Age vs expected useful life is used as a proxy to determine asset condition and to estimate remaining useful life. This is validated using standard industry practice and expected life assumptions are reviewed independently as part of the asset valuation process. Through the 3-Waters stimulus fund, we will be completing condition assessment of our underground water pipe assets. This will enable further verification of our life assumptions and enable more effective long term renewal investment planning.

Sound records exist for asset age information of pipe assets. Minimal age information exists for point assets such as hydrants and valves, however this is considered immaterial due to the low cost and risk associated with these assets.

Data Confidence	Inventory	Condition	Age
Treatment Plant and Facilities	B – Reliable	B – Reliable	C – Uncertain
Network and Other Assets	B – Reliable	C – Uncertain	C – Uncertain

Wastewater

Treatment Plant and Facilities

Sound records currently exist for asset inventory data, due to the quantum of new assets. These will be further improved as part of the data migration to RAMM, alignment to the LINZ metadata standard, and 3-Waters stimulus fund project to improve 3-Waters asset inventory.

Age vs expected useful life is typically used as a proxy to determine asset condition. This is validated with visual condition assessments being completed every three years, and with informal day-to-day checks from staff.

Sound records exist for asset age information.

Network and Other Assets

Sound records currently exist for asset inventory data. These will be further improved as part of the data migration to RAMM, alignment to the LINZ metadata standard, and 3-Waters stimulus fund project to improve 3-Waters asset inventory.

Age vs expected useful life is used as a proxy to determine asset condition and to estimate remaining

useful life. This is validated with visual asset inspections using Council’s in-house CCTV unit.

Sound records exist for many assets age information of pipe assets, although data gaps do exist. The risk of this is considered immaterial, due to our ability to complete physical inspection of assets and estimate remaining useful life.

Data Confidence	Inventory	Condition	Age
Treatment Plant and Facilities	B – Reliable	B – Reliable	B – Reliable
Network and Other Assets	B – Reliable	B – Reliable	C – Uncertain

Stormwater

Sound records currently exist for asset inventory data, following increased focus in recent years. These will be further improved as part of the data migration to RAMM, alignment to the LINZ (Land Information New Zealand) metadata standard, and 3-Waters stimulus fund project to improve 3-Waters asset inventory.

Asset condition is based on visual inspection by staff for above ground assets (e.g. open drains),

and by using Council’s in-house CCTV unit for underground pipe assets. This is not entirely complete, although is not considered a material risk due to our ability to easily complete reactive inspections and the low cost of intervention.

Some asset age data exists although there are significant gaps. The risk of this is considered immaterial, due to our ability to complete physical inspection of assets and estimate remaining useful life.

Data Confidence	Inventory	Condition	Age
Systems	B – Reliable	C – Uncertain	C – Uncertain

Rating	Description
A – Highly reliable	Data based on sound records, procedure, investigations, and analysis, documented properly, and recognized as the best method of assessment.
B – Reliable	Data based on sound records, procedures, investigations, and analysis, documented properly but has minor shortcomings, for example the data are old, some documentation is missing, and reliance is placed on unconfirmed reports or some extrapolation.
C – Uncertain	Data based on sound records, procedures, investigations, and analysis which is incomplete or unsupported, or extrapolated from a limited sample for which grade A or B data is available.
D – Very uncertain	Data based on unconfirmed verbal reports and/or cursory inspection and analysis.
E – Very unreliable	No data exists

Āpitianga B

Ngā Here, Te Ture Kaunihera 2002

APPENDIX B

LOCAL GOVERNMENT ACT 2002

REQUIREMENTS

101B Infrastructure strategy

- (1) A local authority must, as part of its long-term plan, prepare and adopt an infrastructure strategy for a period of at least 30 consecutive financial years.
- (2) The purpose of the infrastructure strategy is to—
 - (a) identify significant infrastructure issues for the local authority over the period covered by the strategy; and
 - (b) identify the principal options for managing those issues and the implications of those options.
- (3) The infrastructure strategy must outline how the local authority intends to manage its infrastructure assets, considering the need to—
 - (a) renew or replace existing assets; and
 - (b) respond to growth or decline in the demand for services reliant on those assets; and
 - (c) allow for planned increases or decreases in levels of service provided through those assets; and
 - (d) maintain or improve public health and environmental outcomes or mitigate adverse effects on them; and
- (4) The infrastructure strategy must outline the most likely scenario for the management of the local authority's infrastructure assets over the period of the strategy and, in that context, must—
 - (a) show indicative estimates of the projected capital and operating expenditure associated with the management of those assets—
 - (i) in each of the first 10 years covered by the strategy; and
 - (ii) in each subsequent period of 5 years covered by the strategy; and
 - (b) identify—
 - (i) the significant decisions about capital expenditure the local authority expects it will be required to make; and
 - (ii) when the local authority expects those decisions will be required; and
 - (iii) for each decision, the principal options the local authority expects to have to consider; and
- (e) provide for the resilience of infrastructure assets by identifying and managing risks relating to natural hazards and by making appropriate financial provision for those risks.

- (iv) the approximate scale or extent of the costs associated with each decision; and
- (c) include the following assumptions on which the scenario is based:
 - (i) the assumptions of the local authority about the life cycle of significant infrastructure assets:
 - (ii) the assumptions of the local authority about growth or decline in the demand for relevant services:
 - (iii) the assumptions of the local authority about increases or decreases in relevant levels of service; and
 - (d) if assumptions referred to in paragraph (c) involve a high level of uncertainty, —
 - (i) identify the nature of that uncertainty; and
 - (ii) include an outline of the potential effects of that uncertainty.
- (5) In this section, infrastructure assets include—
 - (a) existing or proposed assets to be used to provide services by or on behalf of the local authority in relation to the following groups of activities:
 - (i) water supply;
 - (ii) sewerage and the treatment and disposal of sewage;
 - (iii) stormwater drainage;
 - (iv) flood protection and control works;
 - (v) the provision of roads and footpaths; and
 - (b) any other assets that the local authority, in its discretion, wishes to include in the strategy.



**Kaupapa Here
Whakahaere Rawa**

Asset Management Policy

Kaupapa Here Whakahaere Rawa

ASSET MANAGEMENT POLICY

- 97** Purpose *Pūtake*
- 97** Scope *Tirohanga Whānui*
- 97** Benefits *Ngā Hua*
- 98** Strategic Alignment *Te Whakahāngai Rautaki*
- 99** Principles *Ngā Mātāpono*
- 100** Policy Statement *Tauākī Kaupapa Here*
 - 100** Asset Management Plans (AMPs) *Ngā Mahere Whakahaere Rawa*
 - 100** Levels of Service and Performance Management *Ngā Taumata Whakahaere Ratonga*
 - 100** Demand Management *Whakahaeretanga Hiahia*
 - 100** Risk Management *Whakahaere Tūraru*
 - 101** Asset Operations and Maintenance *Ngā Whakahaere Rironga me te Whakauka*
 - 101** Asset Investment Decisions *Ngā Whakataunga Whakangao Rironga*
 - 101** Financial Management *Whakahaeretanga Pūtea*
 - 101** Asset Management Systems and Data *Ngā Pūnaha Whakahaeretanga Rironga me te Raraunga*
 - 101** Asset Management Improvement Planning *Mahere Whakapakari Whakahaeretanga Rironga*

Pūtake PURPOSE

Asset management is an integrated approach for informed investment decisions and effective stewardship of infrastructure assets. The objective of asset management is “to meet a required level of service, in the most cost effective manner, through the management of assets for present and future customers”.

The policy is set by Governance and delivered operationally. This policy defines the principles, requirements and responsibilities for undertaking asset management across Tararua District Council. It is intended to provide staff with an understanding of management expectations regarding asset management outcomes; and provides direction for the development of an Asset Management Plans.

Tirohanga Whānui SCOPE

This policy applies to the areas of the organisation that manage and operate tangible, physical assets for the purpose of delivering services to the residents of Tararua district. The assets are part of the district’s physical infrastructure and are essential to the delivery of services to meet the community’s needs and for the Tararua District Council to achieve the levels of service outlined in the Long Term Plan.

Applicable assets include those managed as part of the Transport, 3-Waters, Solid Waste, and Facilities activities. This policy does not apply to Council owned furniture, IT equipment and passenger vehicles, or the assets of Council suppliers.

Ngā Hua BENEFITS

The benefits of complying with this policy are expected to be:

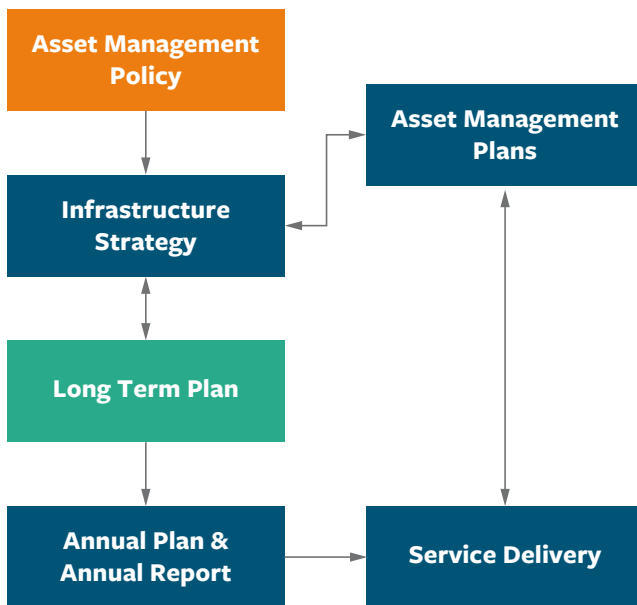
- The active management of assets enables prudent and optimal investment, data driven decisions at the right time in an asset’s lifecycle to minimise the risks to the public and council and ensure continuity of delivery especially for critical services.
- By understanding the lifecycle of our assets, we can intervene in a planned and structured way. This way, we minimise reactive responses and create a “no surprises” environment using appropriate risk, criticality and good management practices.
- The assets we manage on behalf of the public are essential to a functioning society and as such, we have an obligation to achieve the required customer service levels through active renewal and maintenance activities.
- Through better asset data maturity we can, with a higher level of confidence, allocate depreciation funding to reflect upcoming renewal programmes and reduce rating shocks events as well as ensuring rates are not over committed towards infrastructure.

Te Whakahāngai Rautaki

STRATEGIC ALIGNMENT

There are a number of internal strategic and statutory documents that specify the functions, services and activities of the Council. These documents need to be compatible and inform each other with the intention of delivering asset related functions, services and activities in an efficient and effective manner.

The relationship between this Asset Management Policy, the Infrastructure Strategy, Long Term Plan and the various levels of asset management is set out below.



Ngā Mātāpono PRINCIPLES

Tararua District Council will adhere to the following principles in its asset management planning:

Asset management is an essential part of good business planning

The provision of good public services relies on quality local infrastructure to support their delivery. This represents a significant investment by the people of Tararua over many generations. Poor performing assets may have significant cultural, social, economic and environmental consequences and present a risk to Council meeting its obligations to the public. Asset management is therefore concerned with the long term physical and financial sustainability of these assets and the services they support.

Effective asset management requires an organisation-wide approach

All departments of Council need to work together in a coordinated and consistent way. This will help to ensure the benefits arising from synergies, and improvements in asset management practice implemented in one department will be able to be realised across Council, where appropriate.

Levels of service will consider ratepayers' expectations and ability to pay

It is critical that Council has confidence that agreed levels of service consider the community's performance expectations and capacity to pay. This is tested in the consultative process for each Long Term Plan and through other targeted consultative processes.

Managing risk is an integral part of asset management

Asset and activity risk need to be recognised and managed in a consistent way, including the need to take into account global trends, changing demographics, the changing climate and climate change initiatives, natural hazards, building resilience and health and safety considerations.

Asset management planning will inform the Financial Strategy

Financial forecasts will be informed by asset management planning and supported by the application of quality assurance processes to asset data and cost information to ensure confidence in the accuracy of forecasts.

Tauākī Kaupapa Here

POLICY STATEMENT

The following statements apply to Asset Management practice at Council and must be adhered to. They, by design, give effect to the intent of the Policy and should be enacted in alignment with the Principles.

Ngā Mahere Whakahaere Rawa Asset Management Plans (AMPs)

AMPs will be consistent with other Council strategies and planning documents. Inconsistencies will be highlighted where these are unavoidable. The AMPs should demonstrate the links between the Outcomes, Council's vision, District Plan, key Assumptions, and other key documents.

The AMPs will be drafted by December in the year preceding the delivery of the Council Long Term Plan (3-yearly), after consultation with Council and, if appropriate, the community.

An improvement plan will be developed for each AMP with the overall coordination of the improvements being led by the Asset managers.

Ngā Taumata Whakahaere Ratonga Levels of Service and Performance Management

The levels of service set the performance goals for the documented Assets. They need to be clear, explicit, measurable, and sensible to staff and the community.

A performance management framework linking outcomes, goals, levels of service and Key Performance Indicators will be in place for all activities and approved by Council.

The performance management framework will specify the frequency and type of reporting.

The process for determining levels of service and performance targets will be transparent and documented and should incorporate:

- Customer/stakeholder expectations
- Council's strategic objectives
- Compliance requirements.

Whakahaeretanga Hiahia Demand Management

Demand forecasts will be included in AMPs. Assumptions will be clearly stated regarding the basis for the forecasts, source data and confidence levels.

Demand management initiatives will be stated in the AMPs, along with the rationale, cost and expected achievements.

Whakahaere Tūraru Risk Management

Council's risk management framework will be used to identify Council's strategic and asset risks. High or extreme risks will be analysed in more detail and mitigation actions identified and managed.

Council will identify critical assets in the asset register and have a process for managing these assets and responding to their failure.

Ngā Whakahaere Rironga me te Whakauka

Asset Operations and Maintenance

An operations and maintenance strategy and programme will be documented, including asset condition and performance monitoring programmes.

Council will seek to identify the optimal balance of planned and unplanned maintenance in order to minimise whole-of-life costs.

Ngā Whakataunga Whakangao Rironga

Asset Investment Decisions

Council will seek to identify the optimal balance of maintenance and renewal in order to minimise whole of life costs.

Whakahaeretanga Pūtea

Financial Management

Assets will be revalued generally in accordance with New Zealand Equivalents to International Financial Reporting Standards (NZ IFRS). The methodology will generally be consistent with the NAMS Valuation and Depreciation Guidelines. Any deviations from the standards and the guidelines will be explicitly noted in the AMP.

Financial forecasts in the AMP will be prepared at the level required for a minimum of ten years with underlying assumptions and confidence levels clearly stated.

Ngā Pūnaha Whakahaeretanga Rironga me te Raraunga

Asset Management Systems and Data

Asset registers will be maintained for all Council assets, to an appropriate level of detail and accuracy to achieve the level of maturity defined in this policy.

Asset management systems will provide the functionality to automate the delivery of the requirements of this policy.

The information in the asset management systems will reconcile with information in other Council systems.

Mahere Whakapakari Whakahaeretanga Rironga

Asset Management Maturity Improvement Planning

AMPs will include an improvement plan that outlines the tasks, resources and deliverables required to achieve or maintain core-plus maturity levels as per the International Infrastructure Management Manual.





Arotakenga wai me ngā
ratonga hauora

Assessment of water and sanitary services

The last full assessment of the water and sanitary services plan was completed in 2005. There has been significant uncertainty in the waters sector over the last few years with the proposed transition to a '3 Waters' framework under the previous government. This has been replaced by 'Local Water Done Well' under the current government, with the introduction of new legislation in mid-2024 that will establish a new water services system. This system will require councils to develop Water Services Delivery Plans to demonstrate their intention and commitment to deliver water services in ways that are financially sustainable, meet regulatory quality standards for water network infrastructure and water quality, and to unlock housing growth. Through the development of these plans' council will provide an assessment of their water infrastructure, how much they need to invest, and how they plan to finance and deliver it through their preferred service delivery model, which has yet to be identified.

A comprehensive condition review has been completed of the 3 Waters Networks across the district and council has allocated additional funding in the Long-Term Plan to renew pipework and supporting infrastructure.

Applications will be processed to address water consents that have expired or will expire shortly. Water supply consents are coming under greater scrutiny as the demand for water from multiple sources continues to increase. Several interventions are being investigated to reduce demand including leak detection, pressure management and universal metering.

The Water Safety Plans for each of the seven water supplies across the district have been reviewed and updated recently. Source Water Risk Management Plans have been drafted for all the large water supplies and work on the smaller supplies will be completed in 2024. A Drinking Water Compliance Technician will be employed to assist with the monitoring of the councils' compliance with the Taumata Arowai Drinking Water Quality Assurance Rules and the Water Services Act 2021.

Six of the districts seven wastewater treatment plants require upgrading to be compliant. Concurrently, the volume of Inflow and Infiltration (I&I) occurring during weather events will be investigated to enable a reduction in the capacity requirements of the new wastewater treatment plants. To support this and other critical waters infrastructure development a district 3 Waters Advisory Group with representation from a variety of stakeholders is being established to consider options and provide recommendations to council.

A stormwater strategy will be developed to address the immature and ad hoc nature of the current network. Only essential maintenance will be conducted on the stormwater network in the short term until this strategy is completed.

Mahere whakahaere para, whakamimiti para hoki

WASTE MANAGEMENT AND MINIMISATION PLAN

Council is consulting on a Draft 2024 Waste Management and Minimisation Plan (WMMP), as required by the Waste Management Act 2008.

The draft 2024 WMMP signals an increased focus on efficient management, waste minimisation and waste diversion now that transfer stations and recycling facilities are in place. Council provides urban kerbside collections in the larger towns that meet the mandated government standards, while a glass recycling facility in Dannevirke enables consolidation and transporting of sorted glass to Auckland for reuse. New initiatives will include increased education in the community on reuse and waste reduction, as well as improvements to facilities that increase Council abilities to reduce waste to landfill.

Council is facing some major decisions around the management, operations and disposal of waste for Tararua. Waste disposal costs have increased significantly in recent years placing high costs on the community. Council faces challenges to reduce waste to landfill, including the high proportion of organic waste in the waste stream. Proposed government mandated urban food waste collections may not now be imposed. Costs of urban kerbside organic collections are high, and similar waste reductions may be possible through more education and subsidised composting products. Increased waste reduction grant funds from Ministry for the Environment are now available to fund these and other improved recycling / diversion facility initiatives.

Council is signalling a major review of Solid Waste services in the 2024/25 year through a s17A process. This will deliver to Council recommendations on management and operational changes that would best achieve the goals and objectives from the adopted 2024 WMMP in an affordable manner.

Council operates a landfill at Pongaroa. The consent for this has expired with Council lodging intention to renew this consent. The future of this facility will be included in the s17A business case work.

Overall, Council considers that this Long Term Plan is consistent with the strategies and major issues contained in the Draft 2024 WMMP.

