Far North District Council

Te Kaunihera o Tai Tokerau ki te Raki

AGENDA

Infrastructure Committee Meeting

Wednesday, 23 March 2022

Time: **9:30 am**

Location: **Virtually via Microsoft Teams**

Membership:

Chairperson Felicity Foy - Chairperson
Mayor John Carter
Deputy Mayor Ann Court
Cr Dave Collard
Cr Rachel Smith
Cr Kelly Stratford
Cr John Vujcich
Member Adele Gardner

Far North District Council Te Kaunihera o Tai Tokerau ki te Raki	**Authorising Body**	Mayor/Council
	Status	Standing Committee
COUNCIL COMMITTEE	**Title**	Infrastructure Committee Terms of Reference
	Approval Date	7 May 2020
	Responsible Officer	Chief Executive

Purpose

The purpose of the Infrastructure Committee (the Committee) is to ensure cost effective, quality and sustainable infrastructure decisions are made to meet the current and future needs of Far North communities and that Councils infrastructure assets are effectively maintained and operated.

The Committee will review the effectiveness of the following aspects:

- Affordable core infrastructure to support healthy and sustainable living.
- Operational performance including monitoring and reporting on significant infrastructure projects
- Delivery of quality infrastructure and district facilities
- Financial spend and reprogramming of capital works
- Property and other assets

To perform his or her role effectively, each Committee member must develop and maintain

his or her skills and knowledge, including an understanding of the Committee's responsibilities, Councils' infrastructure assets such as roading, three waters and district facilities.

Membership

The Council will determine the membership of the Infrastructure Committee.

The Infrastructure Committee will comprise of at least six elected members (one of which will be the chairperson).

Mayor Carter

Felicity Foy – Chairperson

Ann Court – Deputy Chairperson

Dave Collard

Kelly Stratford

John Vujcich

Rachel Smith

Adele Gardner

Non-appointed Councillors may attend meetings with speaking rights, but not voting rights.

Quorum

The quorum at a meeting of the Infrastructure Committee is 5 members.

Frequency of Meetings

The Infrastructure Committee shall meet every 6 weeks but may be cancelled if there is no business.

Power to Delegate

The Infrastructure Committee may not delegate any of its responsibilities, duties or powers.

Committees Responsibilities

The Committees responsibilities are described below:

Quality infrastructure and Facilities

- Assess and provide advice to Council on strategic issues relating to the provision of Council's infrastructural activities and district facilities
- Review, and recommend to Council, policy and strategies for the delivery of infrastructural asset services
- Monitor achievement of outcomes included in the Infrastructure Strategy and other infrastructure strategies e.g District Transport Strategy
- Ensure that Council protects its investment in its infrastructural assets in accordance with accepted professional standards
- Monitor the risks, financial and operational performance of the Council's infrastructural activities and facilities
- Monitor major contract performance measures/key result areas (KRAs)

Significant Projects – spend, monitoring and reporting

- Monitor significant projects
- Approve budget overspend (above tolerance levels in the CE delegations) and any reprogramming of capex for a project or programme provided that:
    - The overall budget is met from savings
    - The overall budget for capex is not exceeded. Where this is not the case, the Committee must either:
        - Recommend to Council that additional funding is approved (outside the Annual Plan or Long-Term Plan process), or
        - Recommend as part of the next round of Long-Term Plan or Annual Plan process that the funding is considered for inclusion.
- Approve tenders and contracts provided they are:
    - Up to $3 million,
    - in accordance with the current year's plan, whether that be Annual Plan or Long-Term Plan, and
    - deemed low by the Significance and Engagement Policy

Compliance

- Ensure that operational functions comply with legislative requirements and Council policy
- Ensure that consents associated with Council's infrastructure are being met and renewals are planned for

Service levels (non-regulatory)

- Recommend service level changes and new initiatives to the Long Term and Annual Plan processes.

Relationships

- Monitoring Council's relationship with the Northland Transportation Alliance
  - Receive quarterly performance reports
- Monitoring Council's relationship with the Far North Waters Alliance Partner

Property

- Recommend to Council the acquisition or disposal of assets.
- Approve new leases and lease renewals (of non-reserve land), in accordance with the current years' plan, whether that be Annual Plan or Long-Term Plan.

Receive updates on changes to national and regional policies that impact on Council provision of infrastructure and where appropriate make recommendation to Council.

Rules and Procedures

Council's Standing Orders and Code of Conduct apply to all the committee's meetings.

Annual reporting

The Chair of the Committee will submit a written report to the Chief Executive on an annual basis. The review will summarise the activities of the Committee and how it has contributed to the Council's governance and strategic objectives. The Chief Executive will place the report on the next available agenda of the governing body.

INFRASTRUCTURE COMMITTEE - MEMBERS REGISTER OF INTERESTS

Name	Responsibility (i.e. Chairperson etc)	Declaration of Interests	Nature of Potential Interest	Member's Proposed Management Plan
Hon John Carter QSO	Board Member of the Local Government Protection Programme	Board Member of the Local Government Protection Program		
	Carter Family Trust			
Felicity Foy (Chair)	Flick Trustee Ltd	I am the director of this company that is the company trustee of Flick Family Trust that owns properties in Cable Bay, and Allen Bell Drive - Kaitaia.		
	Elbury Holdings Limited	This company is directed by my parents Fiona and Kevin King.	This company owns several dairy and beef farms, and also dwellings on these farms. The Farms and dwellings are located in the Far North at Kaimaumau, Bird Road/Sandhills Rd, Wireless Road/ Puckey Road/Bell Road, the Awanui Straight and Allen Bell Drive.	
	Foy Farms Partnership	Owner and partner in Foy Farms - a farm on Church Road, Kaingaroa		
	Foy Farms Rentals	Owner and rental manager of Foy Farms Rentals for dwellings on Church Road, Kaingaroa and dwellings on Allen Bell Drive, Kaitaia, and property on North Road, Kaitaia, one title contains a cell phone tower.		
	King Family Trust	This trust owns several titles/properties at Cable Bay, Seaview Rd/State Highway 10 and Ahipara - Panorama Lane.	These trusts own properties in the Far North.	
	112 Commerce Street Holdings Ltd	Owner of commercial property in Commerce Street Kaitaia.		
	Foy Property Management Ltd	Owner of company that manages properties owned by Foy Farms Rentals and Flick Family Trust.		

Name	Responsibility (i.e. Chairperson etc)	Declaration of Interests	Nature of Potential Interest	Member's Proposed Management Plan
	Previous employment at FNDC 2007-16	I consider the staff members at FNDC to be my friends		
	Shareholder of Coastline Plumbing NZ Limited			
Felicity Foy - Partner	Director of Coastline Plumbing NZ Limited			
	Friends with some FNDC employees			
Deputy Mayor Ann Court (Deputy)	Waipapa Business Association	Member		Case by case
	Warren Pattinson Limited	Shareholder	Building company. FNDC is a regulator and enforcer	Case by case
	Kerikeri Irrigation	Supplies my water		No
	District Licensing	N/A	N/A	N/A
	Ann Court Trust	Private	Private	N/A
	Waipapa Rotary	Honorary member	Potential community funding submitter	Declare interest and abstain from voting.
	Properties on Onekura Road, Waipapa	Owner Shareholder	Any proposed FNDC Capital works or policy change which may have a direct impact (positive/adverse)	Declare interest and abstain from voting.
	Property on Daroux Dr, Waipapa	Financial interest	Any proposed FNDC Capital works or policy change which may have a direct impact (positive/adverse)	Declare interest and abstain from voting.
	Flowers and gifts	Ratepayer 'Thankyou'	Bias/ Pre-determination?	Declare to Governance
	Coffee and food	Ratepayers sometimes 'shout' food and beverage	Bias or pre-determination	Case by case
	Staff	N/A	Suggestion of not being impartial or pre-determined!	Be professional, due diligence, weigh the evidence. Be thorough, thoughtful, considered impartial and balanced. Be fair.
	Warren Pattinson	My husband is a builder and may do work for Council staff		Case by case
Ann Court - Partner	Warren Pattinson Limited	Director	Building Company. FNDC is a regulator	Remain at arm's length
	Air NZ	Shareholder	None	None

Name	Responsibility (i.e. Chairperson etc)	Declaration of Interests	Nature of Potential Interest	Member's Proposed Management Plan
	Warren Pattinson Limited	Builder	FNDC is the consent authority, regulator and enforcer.	Apply arm's length rules
	Property on Onekura Road, Waipapa	Owner	Any proposed FNDC capital work in the vicinity or rural plan change. Maybe a link to policy development.	Would not submit. Rest on a case-by-case basis.
David Collard	Snapper Bonanza 2011 Limited	45% Shareholder and Director		
	Trustee of Te Ahu Charitable Trust	Council delegate to this board		
Mate Radich	No form received			
Rachel Smith	Friends of Rolands Wood Charitable Trust.	Trustee.		
	Mid North Family Support.	Trustee.		
	Property Owner.	Kerikeri.		
	Friends who work at Far North District Council.			
	Kerikeri Cruising Club.	Subscription Member and Treasurer.		
	Vision Kerikeri	Financial Member		
Rachel Smith (Partner)	Property Owner.	Kerikeri.		
	Friends who work at Far North District Council.			
	Kerikeri Cruising Club.	Subscription Member.		
	Vision Kerikeri	Financial Member		
	Town and General Groundcare Limited	Director, Shareholder		
Kelly Stratford	KS Bookkeeping and Administration	Business Owner, provides bookkeeping, administration and development of environmental management plans	None perceived	Step aside from decisions that arise, that may have conflicts
	Waikare Marae Trustees	Trustee	Maybe perceived conflicts	Case by case basis
	Bay of Islands College	Parent Elected Trustee	None perceived	If there was a conflict, I will step aside from decision making
	Karetu School	Parent Elected Trustee	None perceived	If there was a conflict, I will step aside from decision making

Name	Responsibility (i.e. Chairperson etc)	Declaration of Interests	Nature of Potential Interest	Member's Proposed Management Plan
	Māori title land – Moerewa and Waikare	Beneficiary and husband is a shareholder	None perceived	If there was a conflict, I will step aside from decision making
	Sister is employed by Far North District Council			Will not discuss work/governance mattes that are confidential
	Gifts - food and beverages	Residents and ratepayers may 'shout' food and beverage	Perceived bias or predetermination	Case by case basis
	Taumarere Counselling Services	Advisory Board Member	May be perceived conflicts	Should conflict arise, step aside from voting
	Sport Northland	Board Member	May be perceived conflicts	Should conflict arise, step aside from voting
	He Puna Aroha Putea Whakapapa	Trustee	May be perceived conflicts	Should conflict arise, step aside from voting should they apply for funds
	Kawakawa Returned Services Association	Member	May be perceived conflicts	Should conflict arise, step aside from voting should they apply for funds
	Whangaroa Returned Services Association	Member	May be perceived conflicts	Should conflict arise, step aside from voting should they apply for funds
	National Emergency Management Advisor Committee	Member		Case by case basis
	Te Rūnanga ā Iwi o Ngāpuhi	Tribal affiliate member	As a descendent of Te Rūnanga ā Iwi o Ngāpuhi I could have a perceived conflict of interest in Te Rūnanga ā Iwi o Ngāpuhi Council relations	Declare a perceived conflict should there appear to be one
	Te Rūnanga ā Iwi o Ngāti Hine	Tribal affiliate member	Could have a perceived conflict of interest	Declare a perceived conflict should I determine there is a conflict
	Kawakawa Business and Community Association	Member		Will declare a perceived conflict should there appear to be one
	Chef and Barista	Opua Store	None perceived	

Name	Responsibility (i.e. Chairperson etc)	Declaration of Interests	Nature of Potential Interest	Member's Proposed Management Plan
Kelly Stratford - Partner	Māori title land – Moerewa	Shareholder	None perceived	If there was a conflict of interest, I would step aside from decision making
John Vujcich	Board Member	Pioneer Village	Matters relating to funding and assets	Declare interest and abstain
	Director	Waitukupata Forest Ltd	Potential for council activity to directly affect its assets	Declare interest and abstain
	Director	Rural Service Solutions Ltd	Matters where council regulatory function impact of company services	Declare interest and abstain
	Director	Kaikohe (Rau Marama) Community Trust	Potential funder	Declare interest and abstain
	Partner	MJ & EMJ Vujcich	Matters where council regulatory function impacts on partnership owned assets	Declare interest and abstain
	Member	Kaikohe Rotary Club	Potential funder, or impact on Rotary projects	Declare interest and abstain
	Member	New Zealand Institute of Directors	Potential provider of training to Council	Declare a Conflict of Interest
	Member	Institute of IT Professionals	Unlikely, but possible provider of services to Council	Declare a Conflict of Interest
Adele Gardner	N/A - FNDC Honorarium			
	Te Hiku Education Trust	Trustee		
	Te Ahu Charitable Trust	Trustee		
	ST Johns Kaitaia Branch	Trustee/ Committee Member		
	Te Hiku Sports Hub Committee	Committee Member		
	I know many FNDC staff members as I was an FNDC staff member from 1994-2008.			
Partner of Adele Gardner	N/A as Retired			

Far North District Council
Infrastructure Committee Meeting
will be held in the Virtually via Microsoft Teams on:
Wednesday 23 March 2022 at 9:30 am

Te Paeroa Mahi / Order of Business

1 Karakia Timatanga – Opening Prayer 13

2 Nga Whakapāha Me Ngā Pānga Mema / Apologies and Declarations of Interest 13

3 Te Tono Kōrero / Deputation 13

4 Confirmation of Previous Minutes 14

4.1 Confirmation of Previous Minutes 14

5 Reports 20

5.1 Economic and Practicability Assessment for Discharge of Treated Wastewater to Land from Kaeo Wastewater Treatment Plant 20

6 Information Reports 118

6.1 FNDC / NTA Transportation Activity Update - FY 2021/22 – 6-month Report 118

6.2 Infrastructure And Asset Management (IAM) Monthly Business Report For January 2022 131

6.3 Infrastructure Committee Action Sheet Update March 2022 384

7 Te Wāhanga Tūmataiti / Public Excluded 386

7.1 Confirmation of Previous Minutes - Public Excluded 386

7.2 Tourism Infrastructure Fund Applications - March 2022 386

8 Karakia Whakamutunga – Closing Prayer 387

9 Te Kapinga Hui / Meeting Close 387

1 KARAKIA TIMATANGA – OPENING PRAYER

2 NGA WHAKAPĀHA ME NGĀ PĀNGA MEMA / APOLOGIES AND DECLARATIONS OF INTEREST

Members need to stand aside from decision-making when a conflict arises between their role as a Member of the Committee and any private or other external interest they might have. This note is provided as a reminder to Members to review the matters on the agenda and assess and identify where they may have a pecuniary or other conflict of interest, or where there may be a perception of a conflict of interest.

If a Member feels they do have a conflict of interest, they should publicly declare that at the start of the meeting or of the relevant item of business and refrain from participating in the discussion or voting on that item. If a Member thinks they may have a conflict of interest, they can seek advice from the Chief Executive Officer or the Team Leader Democracy Support (preferably before the meeting).

It is noted that while members can seek advice the final decision as to whether a conflict exists rests with the member.

3 TE TONO KŌRERO / DEPUTATION

No requests for deputations were received at the time of the Agenda going to print.

4 CONFIRMATION OF PREVIOUS MINUTES

4.1 CONFIRMATION OF PREVIOUS MINUTES

File Number: **A3613406**

Author: **Rhonda-May Whiu, Democracy Advisor**

Authoriser: **Aisha Huriwai, Team Leader Democracy Services**

PURPOSE OF THE REPORT

The minutes of the previous Infrastructure Committee meeting are attached to allow the Committee to confirm that the minutes are a true and correct record.

RECOMMENDATION

That the Infrastructure Committee confirm that the minutes of the meeting held 9 February 2022 be confirmed as a true and correct record.

1) BACKGROUND

Local Government Act 2002 Schedule 7 Section 28 states that a local authority must keep minutes of its proceedings. The minutes of these proceedings duly entered and authenticated as prescribed by a local authority are prima facie evidence of those meetings.

2) DISCUSSION AND OPTIONS

The minutes of the meeting are attached. Far North District Council Standing Orders Section 27.3 states that no discussion shall arise on the substance of the minutes in any succeeding meeting, except as to their correctness.

Reason for the recommendation

The reason for the recommendation is to confirm the minutes are a true and correct record of the previous meeting.

3) FINANCIAL IMPLICATIONS AND BUDGETARY PROVISION

There are no financial implications or the need for budgetary provision as a result of this report.

ATTACHMENTS

1. 2022-02-09 Infrastructure Committee Minutes - A3581404

Compliance schedule:

Full consideration has been given to the provisions of the Local Government Act 2002 S77 in relation to decision making, in particular:

1. A Local authority must, in the course of the decision-making process,
   a) Seek to identify all reasonably practicable options for the achievement of the objective of a decision; and
   b) Assess the options in terms of their advantages and disadvantages; and
   c) If any of the options identified under paragraph (a) involves a significant decision in relation to land or a body of water, take into account the relationship of Māori and their culture and traditions with their ancestral land, water sites, waahi tapu, valued flora and fauna and other taonga.
2. This section is subject to Section 79 - Compliance with procedures in relation to decisions.

Compliance requirement	**Staff assessment**
State the level of significance (high or low) of the issue or proposal as determined by the Council's Significance and Engagement Policy	This is a matter of low significance.
State the relevant Council policies (external or internal), legislation, and/or community outcomes (as stated in the LTP) that relate to this decision.	This report complies with the Local Government Act 2002 Schedule 7 Section 28.
State whether this issue or proposal has a District wide relevance and, if not, the ways in which the appropriate Community Board's views have been sought.	It is the responsibility of each meeting to confirm their minutes therefore the views of another meeting are not relevant.
State the possible implications for Māori and how Māori have been provided with an opportunity to contribute to decision making if this decision is significant and relates to land and/or any body of water.	There are no implications on Māori in confirming minutes from a previous meeting. Any implications on Māori arising from matters included in meeting minutes should be considered as part of the relevant report.
Identify persons likely to be affected by or have an interest in the matter, and how you have given consideration to their views or preferences (for example – youth, the aged and those with disabilities.	This report is asking for the minutes to be confirmed as true and correct record, any interests that affect other people should be considered as part of the individual reports.
State the financial implications and where budgetary provisions have been made to support this decision.	There are no financial implications or the need for budgetary provision arising from this report.
Chief Financial Officer review.	The Chief Financial Officer has not reviewed this report.

MINUTES OF FAR NORTH DISTRICT COUNCIL
INFRASTRUCTURE COMMITTEE MEETING
HELD AT THE VIRTUALLY VIA MICROSOFT TEAMS
ON WEDNESDAY, 9 FEBRUARY 2022 AT 9.30 AM

PRESENT: Chairperson Felicity Foy, Mayor John Carter (HWTM), Deputy Mayor Ann Court, Cr Dave Collard, Cr Rachel Smith, Cr Kelly Stratford, Cr John Vujcich, Member Mike Edmonds, Member Adele Gardner

IN ATTENDANCE: Shaun Clarke (Chief Executive Officer), William J Taylor, MBE (General Manager Corporate Services), Dean Myburgh (General Manager District Services), Andy Finch (General Manager Infrastructure and Asset Management), Darren Edwards (General Manager Strategic Planning and Policy)

1 KARAKIA TIMATANGA – OPENING PRAYER

Chair Felicity Foy commenced the meeting and opened with a karakia.

2 NGĀ WHAKAPĀHA ME NGĀ PĀNGA MEMA / APOLOGIES AND DECLARATIONS OF INTEREST

APOLOGY

RESOLUTION 2022/1

Moved: Chairperson Felicity Foy
Seconded: Cr Rachel Smith

That the apologies received from His Worship the Mayor John Carter, Deputy Mayor Ann Court, and Member Mike Edmonds be accepted and leave of absence granted; and that the Infrastructure Committee note the late arrival of Cr Collard at 9:35 am.

In Favour: Crs Felicity Foy, Rachel Smith, Kelly Stratford, John Vujcich and Member Adele Gardner
Against: Nil

CARRIED

3 NGĀ TONO KŌRERO / DEPUTATION

There were no deputations.

4 CONFIRMATION OF PREVIOUS MINUTES

4.1 CONFIRMATION OF PREVIOUS MINUTES

Agenda item 4.1 document number A3565038, pages 14 - 18 refers.

RESOLUTION 2022/2

Moved: Chairperson Felicity Foy
Seconded: Member Adele Gardner

That the Infrastructure Committee confirm that the minutes of the meeting held 24 November 2021 be confirmed as a true and correct record.

In Favour: Crs Felicity Foy, Dave Collard, Rachel Smith, Kelly Stratford, John Vujcich and Member Adele Gardner
Against: Nil

CARRIED

5 REPORTS

5.1 TOTAL MOBILITY SCHEME

Agenda item 5.1 document number A3521778, pages 19 - 28 refers.

RESOLUTION 2022/3

Moved: Cr Kelly Stratford
Seconded: Cr Rachel Smith

That the Infrastructure Committee approves the assignment of Total Mobility Scheme local share operational funding of $31,000 to the Northland Regional Council.

In Favour: Crs Felicity Foy, Dave Collard, Rachel Smith, Kelly Stratford, John Vujcich and Member Adele Gardner
Against: Nil

CARRIED

NOTES:
Chair Foy requests that a timeline, cost options and next steps for the rest of the district be included; as well as criteria for how towns are chosen.

6 INFORMATION REPORTS

6.1 TOURISM INFRASTRUCTURE FUND ROUND 4 - FREEDOM CAMPING STUDY

Agenda item 6.1 document number A3473099, pages 29 - 116 refers.

MOTION

Moved: Cr John Vujcich
Seconded: Cr Rachel Smith

That the Infrastructure Committee receive the report "Freedom Camping Study Tif-R4-005f FNDC" and

AMENDMENT

Moved: Cr Rachel Smith
Seconded: Cr Dave Collard

a) that the Chief Executive prepare a delivery plan on the Tourism Infrastructure Fund - Freedom Camping Study.

In Favour: Crs Felicity Foy, Dave Collard, Rachel Smith, Kelly Stratford, John Vujcich and Member Adele Gardner
Against: Nil

CARRIED

The amendment became the substantive motion.

RESOLUTION 2022/4

Moved: Cr John Vujcich
Seconded: Cr Rachel Smith

That the Infrastructure Committee;

a) receive the report "Freedom Camping Study Tif-R4-005f FNDC" and

b) that the Chief Executive prepare a delivery plan on the Tourism Infrastructure Fund - Freedom Camping Study.

In Favour: Crs Felicity Foy, Dave Collard, Rachel Smith, John Vujcich and Member Adele Gardner
Against: Cr Kelly Stratford

CARRIED

6.2 POU HERENGA TAI TWIN COAST CYCLE TRAIL CHARITABLE TRUST ANNUAL REPORT

Agenda item 6.2 document number A3501797, pages 117 - 158 refers.

MOTION

Moved: Cr John Vujcich
Seconded: Cr Rachel Smith

That the Infrastructure Committee;

a) receive the report Pou Herenga Tai Twin Coast Cycle Trail Charitable Trust Annual Report; and

AMENDMENT

Moved: Chairperson Felicity Foy
Seconded: Cr Dave Collard

b) request a report outlining the scope and cost to engage consultant services to advise routes and costs of district-wide cycle trail routes to the 4 May meeting of the infrastructure Committee.

In Favour: Crs Felicity Foy, Dave Collard, Rachel Smith, Kelly Stratford, John Vujcich and Member Adele Gardner

Against: Nil

CARRIED

The meeting adjourned from 11:30 am and reconvened at 11:55 am.

The amendment became the substantive motion.

RESOLUTION 2022/5

Moved: Cr John Vujcich
Seconded: Cr Rachel Smith

That the Infrastructure Committee;

a) receive the report Pou Herenga Tai Twin Coast Cycle Trail Charitable Trust Annual Report; and
b) request a report outlining the scope and cost to engage consultant services to advise routes and costs of district-wide cycle trail routes to the 4 May meeting of the infrastructure Committee.

In Favour: Crs Felicity Foy, Dave Collard, Rachel Smith, Kelly Stratford, John Vujcich and Member Adele Gardner
Against: Nil

CARRIED

6.3 INFRASTRUCTURE AND ASSET MANAGEMENT (IAM) MONTHLY BUSINESS REPORT FOR DECEMBER 2021

Agenda item 6.3 document number A3571229, pages 159 - 297 refers.

RESOLUTION 2022/6

Moved: Chairperson Felicity Foy
Seconded: Cr Rachel Smith

That the Infrastructure Committee receive the report Infrastructure and Asset Management (IAM) Monthly Business Report for December 2021.

In Favour: Crs Felicity Foy, Dave Collard, Rachel Smith, Kelly Stratford, John Vujcich and Member Adele Gardner
Against: Nil

CARRIED

Chair Foy appointed Cr Smith as interim chair in the absence of a deputy chair and left the meeting at 12:09 pm
12:14 pm Chair Felicity Foy returned to the meeting and resumed the Chair.

6.4 INFRASTRUCTURE COMMITTEE ACTION SHEET UPDATE JANUARY 2022

Agenda item 6.4 document number A3571263, pages 298 - 299 refers.

RESOLUTION 2022/7

Moved: Chairperson Felicity Foy
Seconded: Cr John Vujcich

That the Infrastructure Committee receive the report Action Sheet Update January 2022.

In Favour: Crs Felicity Foy, Dave Collard, Rachel Smith, Kelly Stratford, John Vujcich and Member Adele Gardner
Against: Nil

CARRIED

NOTE: That all pdf's in furture reports/agendas are scaleable and readabe for all members.

NOTE: that Resolution 2021/14, item 6.1 Tourism Infrastructure Fund Round Four, Boat Ramp Study be included on future action sheets.

5 KARAKIA WHAKAMUTUNGA – CLOSING PRAYER

Chair Felicity Foy closed the meeting with a karakia.

6 TE KAPINGA HUI / MEETING CLOSE

The meeting closed at 12:33 pm.

The minutes of this meeting will be confirmed at the Infrastructure Committee Meeting held on 23 March 2022.

.....

CHAIRPERSON

5 REPORTS

5.1 ECONOMIC AND PRACTICABILITY ASSESSMENT FOR DISCHARGE OF TREATED WASTEWATER TO LAND FROM KAEO WASTEWATER TREATMENT PLANT

File Number: **A3572769**

Author: **Ben Bowden, Intermediate Infrastructure Planner**

Authoriser: **Andy Finch, General Manager - Infrastructure and Asset Management**

TAKE PŪRONGO / PURPOSE OF THE REPORT

To seek a decision from Council, via the Infrastructure Committee, regarding the economic viability of discharging treated wastewater from the Kaeo Wastewater Treatment Plant (WWTP) to land.

To seek a decision from the Infrastructure Committee, regarding continued investigations into discharge to land for the Kaeo Wastewater Treatment Plant.

WHAKARĀPOPOTO MATUA / EXECUTIVE SUMMARY

- The resource consent that authorises discharge of treated wastewater (to water) from the Kaeo Wastewater Treatment Plant (WWTP) expires 31 October 2022. In accordance with section 124(1) of the Resource Management Act (RMA) replacement resource consent applications must be lodged with Northland Regional Council (NRC) prior to 31 July 2022. This will enable the WWTP to continue to operate under the current consents while a decision is made on the replacement applications.
- The Proposed Regional Plan for Northland (PRP) sets out that an application for resource consent to discharge municipal wastewater to water will not generally be granted unless a discharge to land has been considered and found not to be environmentally, economically, or practicably viable.
- This report seeks a decision from Council, via the Infrastructure Committee, regarding the economic viability of discharging treated wastewater to land to support the renewal of the Kaeo discharge consent. This report:
  - Demonstrates, based on a desktop assessment, that discharge of treated wastewater from the Kaeo WWTP to land is considered practicably viable.
  - Discusses the cost estimate of $6.2M (-30% to +50%) to establish a treated wastewater to land discharge in Kaeo. The cost estimate excludes costs for land purchase or any potentially required upgrade to the Kaeo WWTP.
  - Estimates a targeted rating increase of $845 - $1800 for the first year (Y5) which will reduce to a range of $765 - $1640 after 5 financial years (Y10).
  - Assesses the affordability of the rating impact using the *Rates affordability in the Far North* report (attachment 4) prepared by Business and Economic Research Ltd (BERL) and determines that discharge to land is not currently considered to be economically viable due to Council's targeted rates funding mechanism.
  - Recommends that Council does not pursue discharge to land as part of the current resource consent application as it is not considered economically viable within the context of Council's purpose under the Local Government Act 2002.
  - This report considers continuation of investigations into discharge to land in Kaeo (separate to the resource consent application process) including feedback from the community in Kaeo and acknowledges that with the transition to Water Entity A implementing a discharge to land scheme may become economically viable.

TŪTOHUNGA / RECOMMENDATION

That the Infrastructure Committee recommends to Council that:

1. the option of discharging treated wastewater from the Kaeo Wastewater Treatment Plant to land is not pursued at this time as part of the application to replace the resource consents authorising discharge of contaminants from the Kaeo Wastewater Treatment Plant, on the basis that the costs associated with that activity, are assessed as not economically viable.

That the Infrastructure Committee notes that:

staff will undertake initial engagement with mana whenua and affected landowners to determine the selection of a possible site based on the options presented in the desktop study; and

should a possible site(s) be identified, staff prepare a budget request for this Committee to consider making funding available for the site assessment and concept design for the discharging to land from the Kaeo wastewater treatment plant that includes site specific technical, design and cost investigation of this option, in which mana whenua are included.

1) TĀHUHU KŌRERO / BACKGROUND

Discharge to Land Investigations

The resource consent held by Far North District Council (FNDC) authorising the discharge of treated wastewater to the Kaeo River from the Kaeo WWTP will expire on 31 October 2022.

Operative policy D.4.3 of the PRP sets out that an application for resource consent to discharge municipal wastewater to water will not be generally granted unless a discharge to land has been considered and found not to be environmentally, economically, or practicably viable.

Staff have undertaken a desktop assessment to determine the practicable viability of discharging treated wastewater to land in Kaeo. Results found numerous sites to be practicably viable. A high-level cost estimate to establish a discharge to land scheme was prepared by consultants and found to be $6.2M with -30% to +50% accuracy. The estimate is indicative only and does not include the cost of purchasing land or any upgrade costs that may be needed to safely discharge treated wastewater to land.

Based on the cost estimate to establish a discharge to land scheme, the targeted rate increase per connection in the Kaeo wastewater scheme has been estimated as $845 - $1800 in the first financial year. This will reduce to an increase of $765 - $1640 after 5 financial years. The rating impact is assessed as high in part due to the small service area of the scheme with only ~240 connections. The BERL report issued in July 2020 titled *Rates Affordability in the Far North* has been used to frame considerations of affordability.

In line with policy D.4.3 of the PRP, for staff to proceed with an application for resource consent to discharge treated wastewater to water the application must demonstrate that the option of discharging treated wastewater to land is not environmentally, economically, or practicably viable. For this determination, “economic viability” should be read within the context of Council’s purpose under the Local Government Act 2002, that is: to promote the social, economic, environmental, and cultural well-being of communities in the present and for the future.

The recommendation is being sought to support the resource consent applications for the Kaeo WWTP, aimed to be lodged in April 2022. It should be noted that this recommendation does not rule out consideration of wastewater disposal to land options as part of future Long-Term Plans (LTP) or through a new Three Waters governing Entity.

To advance investigations and reduce the margin of error associated with the high-level estimate of costs, wastewater discharge to land options will need to be progressed to concept design stage.

The concept design will include irrigation and pipe networking alongside potential treatment plant upgrade options if required. Costing can then be completed at an accuracy of +/- 25%. The estimated cost for this work to be completed is $285k and the timeframe can vary widely depending on how quickly decision making can occur with stakeholders regarding key aspects such as which site(s)

will be discharged to, methods of discharge and end use of the land being discharged to. The estimated timeframe to complete the concept design project (should it be funded) is in the order of 2 to 3 years; however this will be dependent on external engagement factors.

Engagement

A stakeholder and partners analysis was conducted in late 2021 to determine key groups within the community that may have an interest in the discharge from the Kaeo wastewater treatment plant. This identified a variety of community groups as set out in attachment 2.

Follow up engagement with mana whenua representatives from Whanau Kaitiaki and Te Runanga o Whaingaroa has been conducted through online meetings where the project was discussed in detail and further meetings are planned. In both cases, participants expressed their interest in further investigating a wastewater discharge to land option. The Whaingaroa Resource Management Plan echoes this in a policy stating, *'No direct discharges to water including the discharge of treated effluent to water*'.

The 2011 – 2036 Whangaroa community development plan also has the goal of *'No raw or treated effluent to waterways or sea'* which indicates the communities desire to pursue discharge to land as an option. Engagement with the wider community of Kaeo, including the groups identified in the stakeholder & partners analysis, is planned to take place over March 2022.

A webpage has been set up on the FNDC website which provides an overview of the treatment process and the ongoing consent renewal project. There is a form on the webpage where feedback on the option of wastewater discharge to land can be provided.

2) MATAPAKI ME NGĀ KŌWHIRINGA / DISCUSSION AND OPTIONS

Practical viability of wastewater discharge to land for Kaeo

A desktop assessment of land within 5km radius of the Kaeo WWTP identified several potentially suitable sites. These sites were ranked in terms of practicality using a range of criteria, the full details of which can be found in the attachment 1.

This assessment was peer-reviewed by Beca engineering staff to ensure credibility and confirms that discharge to land is practicably viable in Kaeo at a desktop level. The top ranked site from this assessment was then used by Beca to develop the cost estimate for establishing a discharge to land scheme in Kaeo.

If further investigations are funded, then the sites can be investigated, in order from highest ranking down, to identify a preferred site that is acceptable from technical, cultural and landowner perspectives.

Economic viability of wastewater discharge to land for Kaeo

A high-level cost estimate for establishing a wastewater discharge to land scheme is assessed at $6.2M, with -30% to +50% accuracy. The total range of cost is $4.4M to $9.3M and does not include cost estimates associated with land purchase or potential upgrades that may be required at the Kaeo WWTP. A copy of the cost estimate has been included as attachment 5.

It is possible that the land purchase costs can be avoided if a lease or similar arrangement is entered into between FNDC and the landowner; however such arrangements cannot be relied upon until further engagement is carried out with specific landowners.

The Kaeo WWTP may need to be upgraded to facilitate a wastewater discharge to land option, to address potential issues such as algae or total suspended solids (TSS) blocking the disposal network. Costs associated with upgrading the WWTP would be additional to the above discussed estimate and cannot be determined at this time.

The investigations to develop a concept design for wastewater disposal at Kaeo will include determining whether land purchase and/or WWTP upgrade costs will also need to be funded to achieve wastewater discharge to land for Kaeo.

Staff used the high-level cost estimate to determine the rating impact for establishing a discharge to land scheme for Kaeo. Separate rating impact options were developed to reflect the range set out in the cost estimate, using the estimated value, lower and upper margin of error values.

Table 1 sets out the estimated rating impact of establishing a discharge to land scheme in Kaeo. A copy of the rating impact assessment has been included as attachment 3.

Table 1: Estimated targeted rating impact of wastewater discharge to land for Kaeo

Additional Capital Rate Per Connection	2025 (Y5)	2026 (Y6)	2027 (Y7)	2028 (Y8)	2029 (Y9)	2030 (Y10)
At $6.2M	$1205.6	$1183.3	$1160.9	$1138.6	$1116.2	$1093.9
At $4.4M	$843.9	$828.3	$812.6	$797	$781.35	$765.7
At $9.3M	$1808.4	$1774.9	$1741.4	$1707.9	$1674.3	$1640.8

To assess affordability of establishing a discharge to land scheme in Kaeo, the 2020 BERL report is used. The report does not assess the Kaeo community individually but does look at the Bay of Islands-Whangaroa Ward as a whole.

The BERL report establishes that affordability, in the context of rates has two aspects:

I. The cost relative to income (and wealth);

II. The ability of ratepayers to earn greater income in the future from the spending of rates, e.g. investment in infrastructure. It also sets out an approximate benchmark for affordability, whereby affordability concerns will arise where rates exceed 5% of gross household income.

The BERL report assesses rates affordability at three levels: district wide level, ward level (Te Hiku, Bay of Islands-Whangaroa and Kaikohe-Hokianga), and at several specified smaller areas which do not include Kaeo. Within the BERL report, rates affordability is assessed by:

I. Establishing an average lower quartile, average median, and average upper quartile total rates payable value at district level, ward level, and smaller area level (the total includes both NRC and FNDC rates)

II. Determining an average gross household income for eight typical household types also defined at district, ward, and smaller area level, and calculating the cost of total rates as a percentage of the gross income for each household type for the lower quartile, median and upper quartile average total rates values.

The results of the affordability assessments for the Bay of Islands-Whangaroa Ward are depicted in table 10 and 11 of the BERL report. Table 2 shows the total rates as they were depicted in 2020.

Table 2: Rates payable – Bay of Islands-Whangaroa Ward.

	FNDC rates ($)	NRC rates ($)	Total rates ($)
Lower Quartile	1,898	276	2,174
Median	2,437	236	2,673
Upper Quartile	2,937	267	3,205

In 2020, 6 out of 8 typical household types in the upper quartile have rates greater than 5% of their gross income which is deemed unaffordable by the BERL report. A maximum of 15.8% of gross income being exhibited in households with a single adult with two children on the benefit. 3 of the 8 typical household types have rates greater than 5% of gross income at all levels indicated in Table 2 above.

If discharge to land is pursued, the estimated lowest cost increase scenario will result in total rates of $3018, $3517, and $4048 for lower quartile, median, and upper quartile households respectively. At these values the rates would be unaffordable for 6 out of 8 typical household types across all 3

levels indicated in Table 2. The two household types where rates remain affordable are 'Couple, two children, both employed' and 'Two working adults, based in Auckland'.

Using the BERL report to frame considerations of affordability, staff have deemed discharge of treated wastewater to land from the Kaeo wastewater treatment plant is not economically viable under the current rating mechanism. Should land acquisition and/or WWTP upgrades be required to establish a wastewater discharge to land scheme, the impact on rates for Kaeo would be greater than those discussed above.

It is acknowledged however, with the incoming Three Waters reform, that the funding mechanisms are likely to change which may make it economically viable in the future. Therefore, staff consider that this likely change combined with the expressed community direction warrants the continuation of discharge to land investigations (separately to the Resource Consent application).

Options for consideration by the Infrastructure Committee

Decision 1a (preferred decision) – Determining that discharge of treated wastewater to land from the Kaeo wastewater treatment plant is not pursued as part of the replacement consent application process.

Council supports the staff recommendation that disposal of treated wastewater from the Kaeo WWTP to land is practicably viable but not economically viable within the context and timing of the required resource consent applications. It is anticipated that this will result in a resource consent authorising discharge to water being approved for the Kaeo WWTP.

This outcome does not prevent FNDC from continuing to investigate the option of wastewater discharge to land.

Decision 1b - Deferring a decision on the economic viability of wastewater discharge to land for Kaeo

Council defers a decision on the economic viability of land disposal. Staff will still be required to lodge the application for replacement resource consents authorising discharge of treated wastewater to water prior to 31 July 2021. These applications would include the assessment carried out to date on wastewater discharge to land feasibility and costs but will be absent a Council decision in respect of the economic viability of establishing such a scheme. The consequence of not including a Council decision on the matter is that staff will be required to decide on the matter and present this in the application. A determination by staff may not carry sufficient weight to be accepted either by the community or NRC.

Decision 1c - Deciding that wastewater discharge to land for Kaeo is economically viable

A decision that wastewater discharge to land is economically viable will require a staged consenting process. Staff will be required to lodge a consent application for discharge to water to cover the ongoing discharge whilst the site selection, land purchase, consenting, design, delivery and LTP requirements are covered.

It is anticipated that a short-term consent would not be inconsistent with Policy D.4.3 because it can be demonstrated that it is not practicably viable to deliver a wastewater discharge to land scheme within the time constraints associated with the above. Additional costs associated with land purchase and potential upgrade options for the Kaeo wastewater treatment plant will need to be assessed and included in the proposal.

The Infrastructure Committee is also being requested to note that allocating funds in future for continued investigation into wastewater discharge to land for Kaeo may be needed.

Staff will engage with mana whenua, landowners and other stakeholders, to determine a preferred site based on practicality, cost, cultural considerations, landowner participation and the potential for wastewater to become a resource (i.e., irrigation) on the preferred site.

Funding will then be required to progress on-site investigations to assess if the land is suitable to receive treated wastewater as predicted at a desktop level. Providing that a preferred site is successfully identified and verified through site investigations, a concept design and cost estimate will be developed for a wastewater discharge to land scheme including potential upgrades that may be required at the treatment plant.

The concept design can then be progressed into a detailed design to be implemented should the activity of discharging treated wastewater to land become economically viable in future for Kaeo.

Take Tūtohunga / Reason for the recommendation

Due to the estimated rating impact on households that are connected to the Kaeo wastewater scheme, it has been determined that a wastewater discharge to land scheme is currently unaffordable for the community of Kaeo.

As such, it is recommended that a wastewater discharge to land scheme is determined as economically non-viable, and that the replacement consent application seeking to continue discharging to the Kaeo river is supported.

However, staff acknowledge that discharge of treated wastewater to land is a long-term goal for Council because it generally results in better environmental and cultural outcomes. There is also potential to establish end-use practices (i.e., wastewater as irrigation) to help supplement costs.

3) PĀNGA PŪTEA ME NGĀ WĀHANGA TAHUA / FINANCIAL IMPLICATIONS AND BUDGETARY PROVISION

This report identifies that discharge to land options are uneconomic for the Kaeo wastewater treatment plant:

Staff have undertaken a desktop assessment to determine the practicable viability of discharging treated wastewater to land in Kaeo. Results found numerous sites to be practicably viable. A high-level cost estimate to establish a discharge to land scheme was prepared by consultants and found to be $6.2M with -30% to +50% accuracy. The estimate is indicative only and does not include the cost of purchasing land or any upgrade costs that may be needed to safely discharge treated wastewater to land.

Based on the cost estimate to establish a discharge to land scheme, the targeted rate increase per connection in the Kaeo wastewater scheme has been estimated as $845 - $1800 in the first financial year. This will reduce to an increase of $765 - $1640 after 5 financial years. The rating impact is assessed as high in part due to the small service area of the scheme with only ~240 connections.

If further investigation is approved in future once a preferred disposal to land site has been identified, additional operational funding of $285k over two years would be required. This would fall to be met from the operational charge for wastewater and impact on the overall rate calculations for the 2022/23 or future Annual Plans. The current projected rate increase is sitting at 6.25% against a limit of 6.4%. This request would see the rates moved to the limit without any other amendments being suggested for the coming plan.

The Three Water reforms are also expected to take effect from 1 July 2024, which raises the question as to whether this work should be done given that it would take several years to complete, and the final decision would lie with the new water entity rather than with Council.

ĀPITIHANGA / ATTACHMENTS

1. **Draft Kaeo Land Disposal Options Report 02-2022 - A3607321** ⇩
2. **Stakeholder & Partners Analysis - Kaeo DtL - A3607279** ⇩

3. **Rating Impact Assessment - Kaeo DtL - A3607199**
4. **Rate's affordability in the Far North 2020 - A3606303**
5. **Economic Analysis of Discharge to Land in Kaeo 09-2021 - A3606297**

Hōtaka Take Ōkawa / Compliance Schedule:

Full consideration has been given to the provisions of the Local Government Act 2002 S77 in relation to decision making, in particular:

1. A Local authority must, in the course of the decision-making process,
   a) Seek to identify all reasonably practicable options for the achievement of the objective of a decision; and
   b) Assess the options in terms of their advantages and disadvantages; and
   c) If any of the options identified under paragraph (a) involves a significant decision in relation to land or a body of water, take into account the relationship of Māori and their culture and traditions with their ancestral land, water sites, waahi tapu, valued flora and fauna and other taonga.
2. This section is subject to Section 79 - Compliance with procedures in relation to decisions.

He Take Ōkawa / Compliance Requirement	**Aromatawai Kaimahi / Staff Assessment**
State the level of significance (high or low) of the issue or proposal as determined by the Council's Significance and Engagement Policy	Deciding that it is economically viable to establish wastewater disposal to land schemes for the community of Kaeo has a high level of significance, which meets several criteria (for high significance) set out in the policy.
State the relevant Council policies (external or internal), legislation, and/or community outcomes (as stated in the LTP) that relate to this decision.	The Resource Management Act requires FNDC to hold resource consent to discharge contaminants into the environment. Replacement resource consent is being sought. This approach is viewed as more affordable than establishing disposal to land schemes for the subject community and is considered consistent with the community outcome of: *Prosperous communities supported by a sustainable economy.*
State whether this issue or proposal has a District wide relevance and, if not, the ways in which the appropriate Community Board's views have been sought.	The issue of establishing disposal to land schemes is a district wide issue, which has been focused via this report on the community of Kaeo, because of the need to replace discharge resource consents for this community.
State the possible implications for Māori and how Māori have been provided with an opportunity to contribute to decision making if this decision is significant and relates to land and/or any body of water. State the possible implications and how this report aligns with Te Tiriti o Waitangi / The Treaty of Waitangi.	A decision that land disposal is not economically viable will have implications for Māori, being the continued discharge of treated effluent to water. Consultation with tangata whenua regarding this matter is currently being commenced, to enable tangata whenua to contribute to the resource consent application decision making process.
Identify persons likely to be affected by or have an interest in the matter, and	All rate payers that are connected to, or have the ability to connect to, a public wastewater scheme will be

how you have given consideration to their views or preferences (for example – youth, the aged and those with disabilities).	affected by this matter. Consideration of the economic impact of establishing land disposal schemes has been considered via the rating impact of the activity.
State the financial implications and where budgetary provisions have been made to support this decision.	A decision that finds the activity (of land disposal) to be economically viable will have significant financial implications, which may in turn require decisions by Council to transfer funding from other areas within the organisation, or otherwise fund establishment of land disposal schemes. No budgetary provisions have yet been made either to establish land disposal schemes, or to undertake further investigation to preliminary design stage for the community of Kaeo.
Chief Financial Officer review.	The Chief Financial Officer has reviewed this report.

Sensitivity: General

Kaeo Wastewater Treatment Plant

Land Disposal Options Assessment

DRAFT

February 2022

Sensitivity: General

REPORT INFORMATION AND QUALITY CONTROL

Prepared by	 Ben Bowden Graduate 3 Waters Planner Far North District Council
External Peer Review by	 Garrett Hall Technical Director – Environments Beca Ltd
Approved by	Kim Cottle Team Leader – Infrastructure Planning Far North District Council

DRAFT

Sensitivity: General

Contents

Executive Summary 4

1. Introduction 5

2. Methodology 5

3. Land Disposal Methods 7

4. Flow Summary: 9

5. Groundwater considerations 10

6. Hydraulic Loading Rate Design Basis 11

7. Land Disposal Design Basis 12

8. First-class Exclusion Process 13

9. Long List Development 19

10. Multi-Criteria Analysis 21

11. Closing Remarks 23

12. References 24

DRAFT

Sensitivity: General

Executive Summary

This report provides the results of an assessment to identify potential sites for land disposal of treated wastewater from the Kaeo wastewater treatment plant (Kaeo WWTP). The work has been completed using geographic information systems (GIS) to identify potentially suitable sites along with a multi-criteria analysis to shortlist potentially suitable sites for a future detailed assessment.

This report assumes an average annual wastewater flow to the WWTP of 171 m^3/day in 2026 which is the estimated year of commissioning of any land-based disposal infrastructure. An average hydraulic loading rate of 1.14 – 4.14 mm/day was determined based on the soil drainage classes present in Kaeo and the indicative permeability rate associated with clay loam soils. Based on these assumptions, a minimum total area of 7.1 hectares of land is required for disposal to land which includes a 50% buffer to allow for future growth, adequate distance from surroundings, and a storage pond. Due to high levels of rainfall and resulting stormwater infiltration in Kaeo, the maximum flow from the WWTP is much larger than the average flow. To deal with high flows it is recommended that 28 Ha be used for irrigation and a buffer.

GIS mapping using data sets from FNDC, Northland Regional Council (NRC) and other online sources were used. Based on these data sets, it can be confirmed that there are numerous feasible options for land disposal within 5 km of the WWTP. The sites identified as a shortlist were largely located to the south of the WWTP.

Upon review of the top 10 sites, it was found that the best option was too close to potential nearby dwellings. Therefore, it would require subsurface drip irrigation as opposed to the cheaper method of spray irrigation which has meant that the second ranked site was instead identified as the preferred theoretical site.

Site specific economic analysis has been achieved for option 3 by Beca which has been included as Appendix A. This analysis gives a high-level estimate of $6.2M with an uncertainty range of $4.4M – $9.3M.

DRAFT

Sensitivity: General

1. Introduction

The Kaeo WWTP discharges treated wastewater into the Kaeo River which flows into the Whangaroa Harbour. FNDC is currently in the process of renewing the resource consent authorising the discharge, which expires on 31st October 2022. Policy D.4.3 of the Proposed Regional Plan for Northland (Appeals Version – August 2019) sets out that an application for resource consent to discharge municipal wastewater to water will generally not be granted unless, among other things, a discharge to land has been considered and found not to be economically, environmentally, or practicably viable.

The purpose of this report is to provide an initial desktop feasibility assessment and a high-level cost estimate for land disposal of wastewater from the Kaeo WWTP. This will enable a determination of land disposal practicability and feasibility in accordance with Policy D.4.3.

Kaeo township and the surrounding area is known to be flood prone land with clay soils that are not very conducive to discharge to land. However, this desktop study identified numerous options and has ranked the top ten using a multi-criteria analysis to identify which site should be used to base an economic analysis on.

2. Methodology

To establish the feasibility of land disposal areas, GIS software was used to initially screen site suitability by excluding land areas that failed critical criteria. This first-class exclusion zone was initially developed for the area of interest (AOI) based on the following criteria:

- 20m proximity from all lakes and rivers.
- 20m proximity from all land not designated rural production, general coastal or minerals.
- Total area for land designated as minerals.
- Total area for flood susceptible land.
- Total area for 50-year coastal flooding and erosion predictions.
- Slope > 12°.
- Soil drainage classes 0 – 1.

These criteria were developed based on established best practice, considering previous similar studies in the Far North [note reference] and engineering advice provided by Beca as part of a pre-draft review process.

A long list of sites was then created by ranking each site using the criteria and weighting shown in Table 1 below.

DRAFT

Sensitivity: General

Table 1: Long List Criteria

Criteria	Weighting
Highest Average Hydraulic Loading Rate	33.0%
Distance from Wastewater Treatment Plant	25.0%
Lowest Average Slope	17.0%
Total Available Area for Discharge	17.0%
Regularity of Site	8.0%

Lastly, the long list underwent a multi-criteria analysis (MCA) process in which qualitative measures are assessed as shown in Table 2 below. This process allows for the remaining sites to be ranked based on their suitability for land disposal so that the highest ranked can be taken forward for further analysis. Cultural consideration can not be made by staff and therefore will be made in collaboration with tangata whenua should a land owner agree to further investigations being conducted at a later date.

Table 2: MCA Criteria

Criteria	Weighting
Long List Score	40%
Proximity to archaeological sites of significance	20%
Statutory Considerations (SNA, Wetlands)	20%
Existing Land Use (Land Cover, Aerials, LINZ Land Use)	20%

The analysis was achieved using the datasets found in Table 3 to conduct the exclusion zones and criteria analysis referenced above.

Table 3: Spatial Data Sets used to Identify Land Disposal Constraints

GIS Dataset	Source
District Plan Zones	Far North District Council
Slope	LENZ[2]
MfE river flows	LINZ[1]
Northland Flood Susceptible Land	Northland Regional Council
Marae	Te Puni Kokiri Maps
NZAA Registered Sites	Far North District Council
SNA's	Far North District Council
Bore sites	Northland Regional Council
Parcel Search (Property Ownership Type)	Far North District Council
NZLRI SOIL	LRIS Portal[3]
LCDB v5.0	LRIS Portal

1 LINZ topo1:50,000 map data
2 Slope data layer used in the creation of Land Environments of New Zealand (LENZ) classification
3 Identified as the same layer used in NRC Soil Map Viewer

Sensitivity: General

3. Land Disposal Methods

The work of Tonkin + Taylor (2019) in Ahipara suggests that the methods for land disposal from wastewater treatment plants are limited by volume, soil quality, and level of treatment prior to disposal.

Four potential land disposal methods have been identified for consideration:

- Soil Aquifer Treatment (SAT)
- Soil Moisture Discharge Methods (SM)
- Slow Rate Irrigation (SR)
- Combined Land and Water Discharge (CLWD)

Soil Aquifer Treatment (SAT)

According to the USEPA Process Design Manual for Land Treatment of Municipal Wastewater Effluents, (2006) soil aquifer treatment allows for higher loading rates than the other options which would significantly reduce the area required for disposal. However, this method requires high permeability soils which are free draining and require a fine level of pre-disposal filtration to operate effectively.

The area surrounding the Kaeo WWTP contains a mixture of sandstone and greywacke soils which vary from poorly drained to well-draining. These soils are likely to not have the drainage level required to consider SAT however further investigations would need to take place to be sure.

Effluent exiting the Kaeo WWTP also contains algae and other solids which can lead to clogging of the disposal system and result in runoff. For SAT to be viable, the pre-disposal treatment would need to meet a suitable standard to prevent clogging and runoff from occurring. Current pre-disposal treatment would not meet this standard and therefore SAT would only be considered in combination with upgrades to the treatment process.

Investigation into treatment requirements and costing of upgrades required to reach those requirements would need to be completed before SAT disposal could be considered. It is recommended that this is done should land disposal be carried forward as an option following this report.

Soil Moisture Discharge Methods (SM)

Soil moisture discharge methods are designed to minimize losses to groundwater following the disposal to land. This method requires a significantly larger land area than other disposal methods. For this reason, it would only be considered if on-site investigations deemed it necessary due to the potential health risk present in the event treated wastewater would flow into groundwater used by the public.

Slow Rate Irrigation (SR)

Slow rate irrigation is a method where treated wastewater effluent is applied at a low loading rate over an extensive area of land as determined by USEPA (2006). Application rates typically vary between 3 and 5 mm/d according to Tonkin + Taylor (2019). The effluent applied will soak into the upper soil layers where some is lost to evapotranspiration. When the storage capacity of moisture in the soil is exceeded, the effluent will percolate and be lost via soakage. Application methods for SR are spray irrigation (fixed

Sensitivity: General

sprinkler or k-line system), and pressure compensating drip irrigation, either laid on the surface or buried within the topsoil layer (100 to 150 mm depth).

Effluent from the Kaeo WWTP is not suitable for the pressure compensating drip irrigation system due to the required small diameter effluent emitters. The wastewater being discharged contains algae that will quickly clog the emitters and compromise the operation. This was the reason the system was not further considered for the Ahipara WWTP land disposal options assessment (Tonkin + Taylor, 2019). Therefore, drip irrigation would only be considered if pre-disposal treatment of total suspended solids (TSS) was improved.

SR systems need to be developed to avoid run-off from the disposal area with all effluent being disposed of via soakage or evapotranspiration. Therefore, irrigation will need to cease during times of high soil moisture content when chances of runoff are high. Detailed investigations would be required to determine when irrigation should cease for each site. Effluent produced at such a time would need to be stored in a storage pond. Comparison sites indicate a requirement of 2 – 6 months of storage capacity is required if 100% discharge to land is pursued. Whangamata which uses a precipitation index irrigation scheme requires a 3-month storage pond, whilst a land disposal system in Mangawhai requires 6 months of storage.

SR is most suitable on land slopes up to 10° however, it can work on slopes up to 20° if drainage class is suitable. The drainage class within the area of interest allows slopes greater than 10° to be considered, however the additional runoff risk requires further investigation. For the purpose of this analysis, sites with less than 12° have been considered for disposal in accordance with the land disposal report for Kohukohu by Daniel, J. (2020). This report identified that slopes above 12° pose a greater risk of runoff and erosion issues.

Most contaminants within wastewater effluent are removed in the first few meters of soil, with finer soils resulting in a greater removal rate. Some nitrogen may be removed through nitrification on the surface of the soil, however, once it has entered the soil will move freely through the soil profile when it becomes entrained with water. This can lead to nitrogen loading downstream, the effects of which should be considered when finding an appropriate site for land disposal.

Slow rate irrigation is considered the most appropriate method for this desktop analysis.

Combined Land and Water Discharge (CLWD)

Using SR in a combined land and water discharge should also be considered where the land disposal would be considered as a ‘side-stream’ treatment to the current set-up; that is, flows that are to be directed to land disposal would undergo a separate treatment process to the flows that would be discharged to water. The benefits of a side-stream arrangement are that the capital investment required for land disposal can potentially be reduced owing to the differing treatment requirements for land disposal discharge to water. This would allow for discharge to water when the land discharge site is unable to accept treated wastewater due to soil moisture conditions. It is also noted that at least 20% of the flow is required to go through the ponds to keep them ‘alive’. Therefore, it would be ideal for the wastewater to flow through the current system before either being discharged to land or surface water depending on soil moisture conditions.

Sensitivity: General

4. Flow Summary:

Total flow data for the period between 1st January 2017 and 31st Dec 2020 has been collated for analysis. Table 4 below identifies the average, median, 90th percentile, maximum, and average dry weather flows for 2021 (current year), 2026 (estimated first year of operation should the option be taken forward), and 2043 (final year of population forecast data).

Table 4: Kaeo Wastewater Inflows (Jan 2017 – Dec 2020)

Parameter	2021	2026	2043
Average Flow (m3/day)	165	171	195
Median Flow (m3/day)	128	133	151
90th Percentile Flow (m3/day)	294	305	347
Maximum Flow (m3/day)	1274	1320	1503
Average Dry Weather Flow (m3/day)	79	82	94

The inflow to the treatment plant was used to determine the amount of discharge the land would be required to handle due to the outflow being unreliable over the years. The flows recorded have been historically compliant with the average dry weather flow limit of 360 m^3/day.

Soil Drainage Class

Drainage classification is of fundamental importance to land disposal feasibility assessment. It allows for an indicative soil permeability to be determined based on the preliminary soil permeability as per the guidelines of NZS1547 (2012).

To compare the potential sites with the underlying soil, a drainage class assessment was undertaken using the following method:

- NZLRI Soil (2010) layer imported from LRIS portal. This layer forms the basis for the Northland Regional Councils (NRC) soil viewer.
- Using the soil factsheets supplied by NRC, the types of soils found in the AOI were assigned with a drainage class between 0 (No drainage) – 5 (Very well drained). Some of these soils had a range of drainage classes that were averaged out so that a single value could be attributed to them. (e.g. Omu Clay Loam (OM) has a drainage class between 2 – 4 so would become a 3).
- The assigned drainage classes were then applied to the imported layer which exists as polygons on the map. These polygons often had 2 – 3 soils attributed to them and so an average drainage class was used with it being rounded to the nearest whole number.

The output from the above assessment is set out in Figure 1 below.

Sensitivity: General

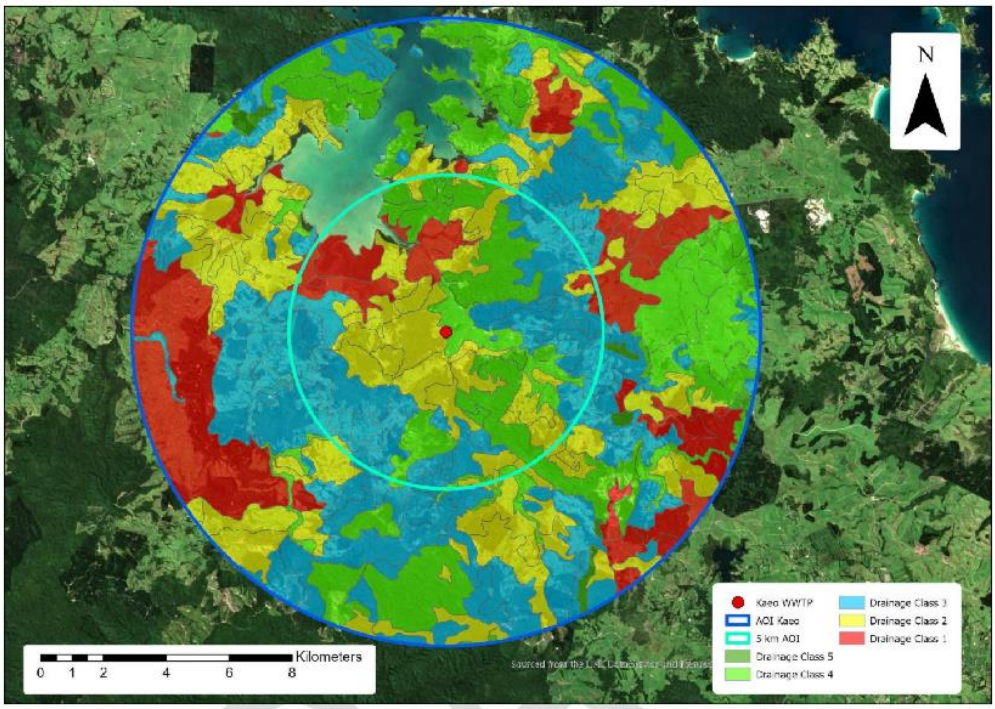


Figure 1: Soil Drainage Classes

For the purposes of this analysis a high-level approach was used to give an indicative drainage class that could be associated with the underlying soil as a comparison tool for potential sites. On-site testing to confirm the drainage of the soil would need to be carried out in the event any options are taken forward for further consideration.

5. Groundwater considerations

NRC does not currently monitor groundwater in the Kaeo area, and no groundwater investigations have been undertaken by FNDC. Therefore, onsite investigations will need to be undertaken to determine groundwater levels and flows relative to the site selected for disposal. Registered bores can be found in the Kaeo AOI and there will likely also be unconsented bores in the area. The proximity of any known bores will need to be identified if any of the options are further investigated. It can be assumed that any bore onsite of an option which is implemented will be decommissioned unless appropriate buffer distances can be accommodated within the irrigation system design.

It is vital that a flow path be charted for the treated wastewater once it has been disposed to land so that FNDC can be confident that it will not turn into an environmental or public health risk. This can be achieved using well-placed bores which are monitored to establish flow rates, depth, and direction. It is important

Sensitivity: General

that this monitoring accurately reflect yearly flows and so should be done for the period of at least one year though winter months where the flows will be highest.

6. Hydraulic Loading Rate Design Basis

Following the method used by Jacobs (2020) the hydraulic loading rate has been determined based on an estimated percolation rate, average annual rainfall, and the average annual evapotranspiration for Kaeo. Annual rainfall and evapotranspiration data used is NIWA Cliflo data from the nearest stations which document that data. Rainfall was taken from the Kaeo Northland site (Network Number: A53071) and evapotranspiration was taken from the Kerikeri Ews site (Network Number: A53191).

The preliminary design for soil permeability is determined using NZS1547 (2012) which provides a broad estimate of between 60 – 120 mm/day for massive clay loam land disposal systems. This range was used to differentiate the drainage classes being considered (2 – 5) as in Table 6 below.

Table 6: Soil Permeability

Drainage Class	Preliminary Soil Permeability (mm/day)
2	60
3	80
4	100
5	120

An example of this method can be found in Table 7 below which finds a hydraulic loading rate of 4.32 mm/d for areas with a drainage class of 5. Therefore, this result is the best possible case for the area of interest and is only slightly outside the range of 3 – 5 mm/d suggested by Tonkin + Taylor (2019) for land disposal for the Ahipara WWTP.

The hydraulic loading rate found for drainage class 2 is 1.32 mm/day which is below the range considered by Tonkin + Taylor (2019). Due to the imperfectly draining nature of the class this was considered appropriate.

Table 7: Hydraulic Loading Rate Example

Parameter	Units	Value	Comment
Soil Type	-	Clay Loam	NRC Managing NZ Soils Fact Sheet Viewer
Soil Permeability (Preliminary Design)	mm/day	120	Category 4, Table 5.2 NZS1547 (2012)
Design Safety Factor	%	5	USEPA (2006)
Design Annual Percolation Rate	mm/day	6	Soil Permeability x Design Safety Factor
Annual Rainfall	mm/year	1460	NIWA (Average from past 4 years)

Sensitivity: General

Annual Evapotranspiration	mm/year	782	NIWA (Average from past 4 years)
Hydraulic Loading Rate	mm/day	4.14	Percolation – Rainfall + Evapotranspiration

7. Land Disposal Design Basis

Using the values reported for the average daily flow and the hydraulic loading rate, total land disposal area requirements can be calculated. These land area requirements are reported in Table 8 for drainage class 2 and 5 to show the range considered for sizing the land disposal system. The total land requirement includes a 50% buffer to account for a storage pond, and potential growth of irrigated area. A 50% buffer has been used to accommodate for the low area requirement for land disposal present due to the low average discharge flow.

A comparison has also been included in Table 8 below to show the difference between 2026 and 2043 requirements based on assumed wastewater flows in 2043. The 50% buffer is added in addition to the exclusion zones applied as detailed in section 9 of this report.

Table 8: Total Area Required for Land Disposal

Parameter	Units	Drainage Class 2	Drainage Class 5
Average Daily Flow (2026)	m^3/day	171	171
Average Daily Flow (2043)	m^3/day	195	195
Hydraulic Loading Rate	mm/day	1.14	4.14
Irrigated Area (2026)	Ha	14.5	4.1
Irrigated Area (2043)	Ha	17.1	4.7
Irrigation Application Method		Spray	Spray
50% Buffer Area (2026)	Ha	7.2 (0.25 * (Irrigated Area))	2.1 (0.25 * (Irrigated Area))
50% Buffer Area (2043)	Ha	8.6 (0.25 * (Irrigated Area))	2.4 (0.25 * (Irrigated Area))
Total Land Area Required (2026)	Ha	21.7	6.2
Total Land Area Required (2043)	Ha	25.7	7.1

DRAFT

Sensitivity: General

8. First-class Exclusion Process

A first-class exclusion zone has been initially developed in Arc GIS Pro for the area of interest based on the following criteria:

- 20 m proximity from all lakes and rivers.
- 20 m proximity from all land not designated rural production, general coastal or minerals.
- Total area for land designated as minerals.
- Total area for flood susceptible land.
- Total area for 50-year coastal flooding and erosion predictions.
- Slope > 12°.
- Soil drainage classes 0 – 1.

Based on these criteria, a desktop GIS analysis was conducted by first creating a 10 km buffer boundary around the Kaeo WWTP. FNDC District Plan zones were included to determine the zoning associated within the AOI. Figures 3 - 7 below show the area of the zones being excluded from further analysis as according to the criteria above.

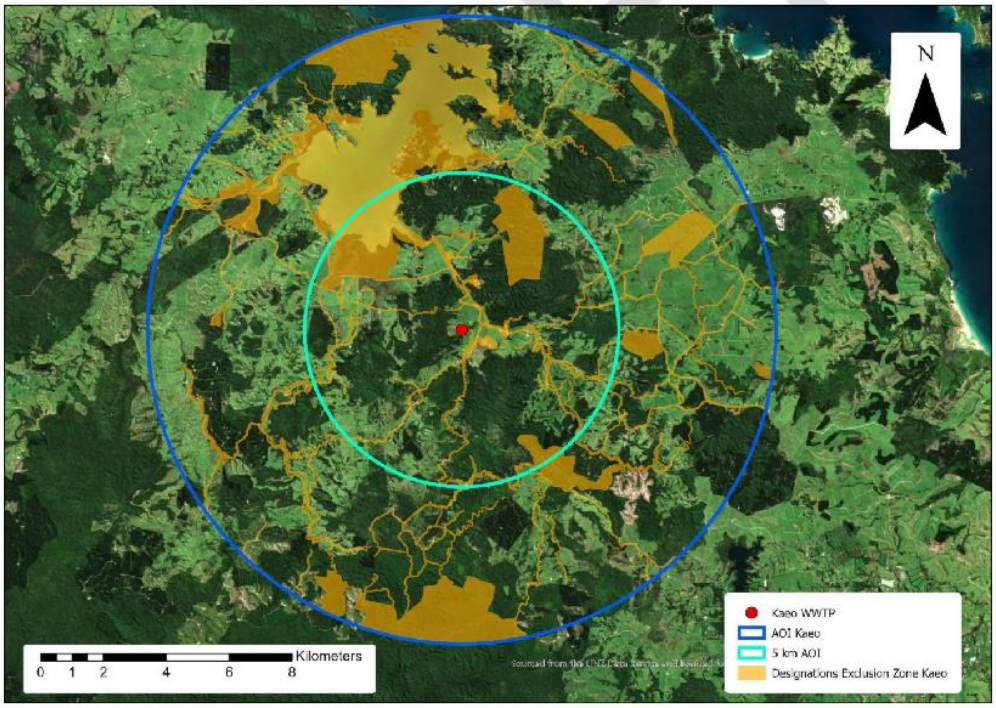


Figure 3: Land Designation

Using this zoning data, all land not zoned as either rural production or general coastal was given a 20m buffer which acts as the designation exclusion zone. The exception to this rule was the minerals zone as

Sensitivity: General

it was deemed that this zoning does not require the same degree of separation due to the anticipated land use not being sensitive to the land disposal activity.

The lines stretching across the AOI is land designated as roads which have also been considered part of the exclusion zone.

River lines were then produced using data from LINZ TOPO50 NZ River Centerlines and given a buffer of 20 m as per the exclusion criteria. The output is depicted in Figure 4 below. Rivers/streams are widespread over the AOI and act as a considerable constraint compared to the other exclusion criteria.

The flood plains were also considered a total exclusion zone and have been included in Figure 4. Because no flood modeling has been completed within the surrounding catchment, the Northland Regional Council Flood Susceptible Land data was used to demarcate 100-year floodplains. It has been used as an exclusion zone due to the potential damage/contamination that could be caused in the event of a flood.

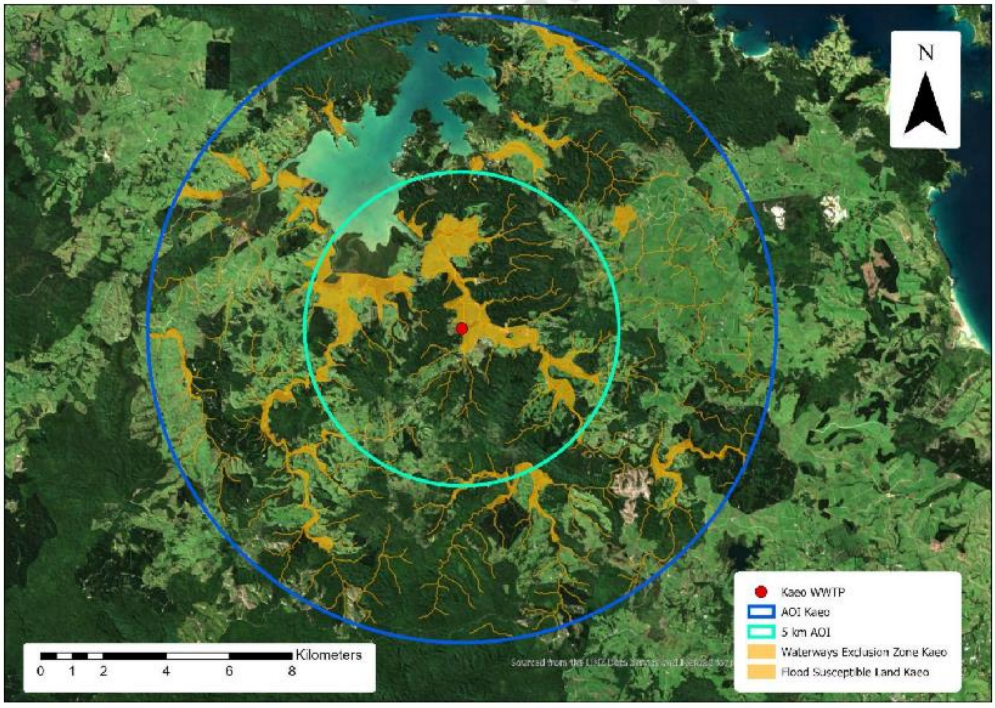


Figure 4: River, Lake, and Flood lands Exclusion Zone

Rivers are spread out across the AOI and have a significant impact on where land disposal can be applied. Flood susceptible land follows the river lines and extends out onto low lying land.

Slopes greater than 12° have been added as an exclusion zone due to the propensity for runoff to be produced from these slopes. Data from LENZ was used first to project the slope data based on a 25m

Sensitivity: General

digital elevation model fitted to 20m digital contour data as seen in Figure 5 below. Following this, the areas above 12° were added to the exclusion zone.

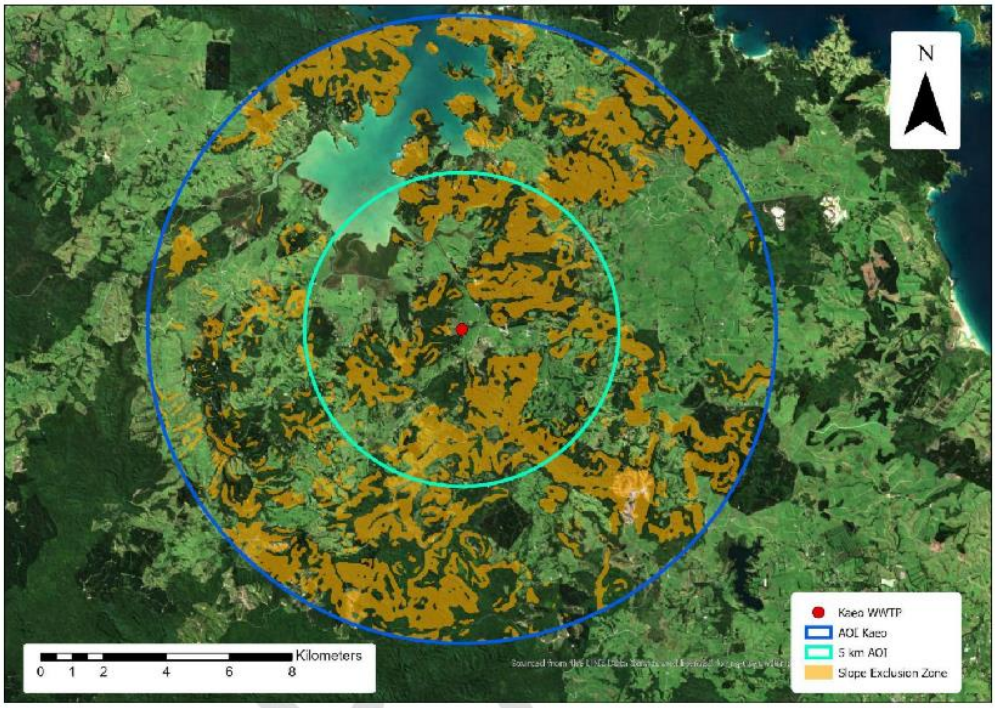


Figure 5: Slope Exclusion Zone

Slopes greater than 12° were found in high quantity throughout the AOI. This is a significant amount of area unavailable for land disposal.

As can be seen in Section 5 of this report, the soil drainage map allows for classes 0 – 1 to be excluded from further consideration. This is shown as an exclusion zone in Figure 6 below.

Sensitivity: General

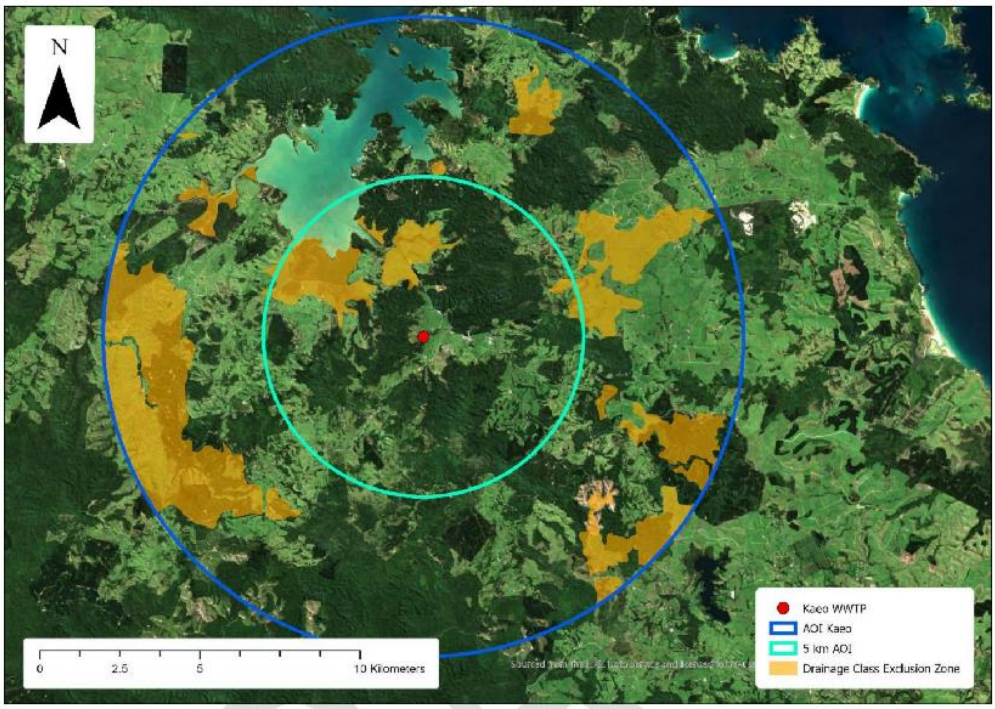


Figure 6: Soil Exclusion Zone

As can be seen, most of the land within the AOI is at a high enough drainage class to be considered for disposal of land. This is due to the large presence of sandstone and greywacke soils which dominate the area and generally have a drainage class between 2 (inconsistent) and 4 (well-draining).

Based on all the first-class exclusions a complete exclusion zone could then be formed as per Figure 7 below.

Sensitivity: General

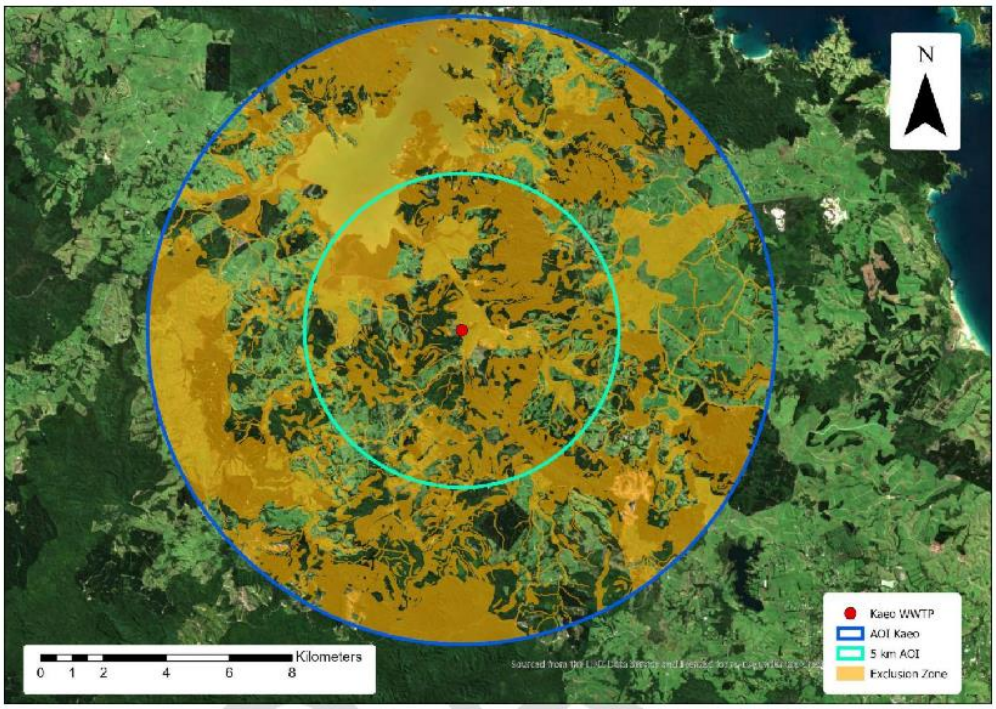


Figure 7: Total Exclusion Zone

As seen, most of the land with the AOI is currently excluded from further considerations due to the above criteria. However, given the relatively small amount of land required for land disposal in Kaeo there are still plenty of options to be considered.

This is shown below where using the total exclusion zone layer, the available land can be shown as in Figure 8.

Coastal flooding and erosion have been determined by NRC at 50 and 100-year intervals. The 100-year zones hold a 5% probability however, and so the 50-year zones have been used instead which have a 66% likelihood. These zones did not add to the exclusion zone area beyond what is already was. Maps for these layers can be supplied on request.

Sensitivity: General

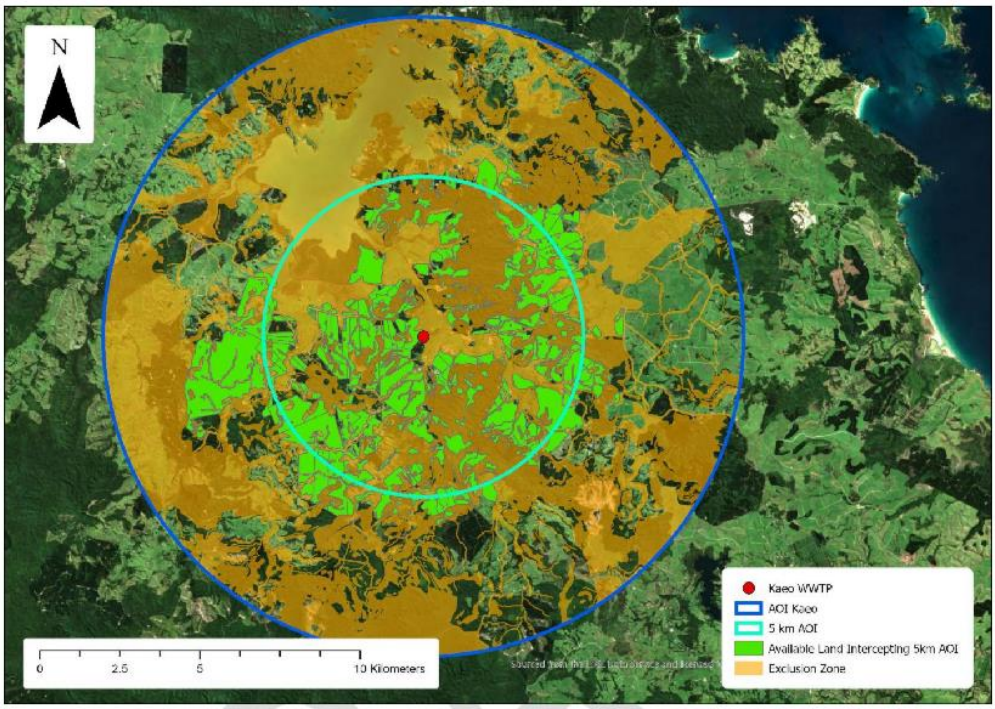


Figure 8: Available Land

The land parcels located outside the exclusion zone were processed using GIS software (ArcMap Pro) to remove small parcels and those that are deemed unusable, in addition to merging land parcels in common ownership. The methodology for this processing is outlined below:

- Available land data initially cleaned of any land parcel area below 1 Ha.
- Additional cleaning of remaining data with parcel intents labelled ROAD, HYDRO, etc. which hold unusable land for disposal.
- Parcel properties are merged based on ownership and proximity. This is done so that total land available from a single owner/ownership group can be used providing that the parcel properties are close together.
- Any land remaining with less than 4.1 Ha is excluded due to being less than the lowest disposal area requirement calculated.

This process has provided an extended list of options which can be further considered for their potential as land disposal sites. In this case there were 113 remaining sites of interest within 5km and therefore available sites further out than that were not included in further analysis. The number of sites is further refined into a long list using the qualitative method detailed in section 10 of this report.

Sensitivity: General

9. Long List Development

The long list was created using the criteria shown in Table 9 below. This initial method of ranking the potential sites was purely quantitative in nature.

Table 9: Long List Criteria

Criteria
Highest Average Hydraulic Loading Rate
Distance from Wastewater Treatment Plant
Lowest Average Slope
Total Available Area for Discharge
Regularity of Site

The long list criteria were determined as follows:

- The resulting 113 sites found in the first-class exclusion process were joined with the underlying soil drainage data using the union tool in Arc GIS Pro. This allowed for the drainage classes of each option to be analyzed.
- Multiple soil drainage class polygons underlined each option and therefore a percentage was developed to show how much of each option contained each drainage class. To achieve this analysis, the available land area information was extracted from Arc GIS Pro and transferred to Excel. Here, the total area of each option was first found by summing the areas for all associated drainage class polygons. This allowed for the area of each drainage class to be given a percentage value for the area they make up of an option in relation to its total area.
- To come up with a numerical field that can be ranked, the percentage values of each drainage class are multiplied by its associated hydraulic loading rate (as calculated in section 6 of this report). This gives each option an indicative hydraulic loading rate which can then be used to score the drainage level of each option.
- Distance from the wastewater treatment plant was scored depending on proximity of the sites. An option which was within 5km would score 1 where an option within 1km would score 5.
- The average slope of each option was calculated in Excel using the AVERAGE function for all soil polygons found within an option. This gives an indicative value for the slopes on-site for each option and allows for them to be scored against each other to find the options with the lowest average slope.
- Lastly, the regularity is calculated by using the ratio AREA:Perimeter^2. This means that cuts within the available areas produced from exclusion criteria result in a lower regularity as they raise the perimeter of the polygons in Arc GIS Pro. However, it was decided that regularity would not be included in this assessment due to it counteracting larger sites from being considered. This is due to them being more likely to have rivers, pockets of high slope, or some other exclusion zone running through them and splitting up the area.

Using the output from the above analysis, scores can be set up for each of the long list criteria based on where an option sits for a certain criterion in relation to the other options. Percentiles were then used to

Sensitivity: General

create 10 possible scores for each criterion based on the results found for all 113 options. An example of this is shown in Table 10 below which details how options are scored for their total available area.

Table 10: Total Available Area Scoring

Percentile	Score
Below 10%	1
Below 20%, Above 10%	2
Below 30%, Above 20%	3
Below 40%, Above 30%	4
Below 50%, Above 40%	5
Below 60%, Above 50%	6
Below 70%, Above 60%	7
Below 80%, Above 70%	8
Below 90%, Above 80%	9
Above 90%	10

The scoring for each of the criterion were then used to develop the long list using the weightings shown in Table 11 below. Hydraulic loading rates were considered the most important factor for considering land disposal and therefore got a highest weighting. Distance to the wastewater treatment plant has been proven as a significant factor in the cost of implementation and therefore was weighted accordingly. As slopes above 12° were excluded earlier this was deemed a less important criterion though it is noted that the lower the slope on-site, the better it is for land disposal and therefore it was included. Total available area allows for more options to be considered at the site but due to the small area needed for land disposal in Kaeo was given a low weighting.

Table 11: Long List Weighting

Criteria	Weighting
Highest Average Hydraulic Loading Rate	33.0%
Distance from Wastewater Treatment Plant	25.0%
Lowest Average Slope	17.0%
Total Available Area for Discharge	17.0%
Regularity of Site	8.0%

The weightings for each of the criteria were then multiplied by the associated score for each option to develop an overall ranking for each site. Based on this ranking, the top 10 sites were taken forward for further analysis using a multi-criteria analysis (MCA) which considered qualitative information. These 10 sites are included in Appendix B alongside the information used for the MCA. It is important to note that this does not rule out the remaining 113 options from consideration. Should the options taken forward prove unviable then additional sites from the available land list can be taken forward based on their ranking to be considered further.

Also included in Appendix B is the total available land in hectares. All sites identified have an available area of at least 7 Ha and therefore can support land disposal provided they have adequate soil drainage. This will need to be determined using on-site investigations which test the soils at key locations.

Sensitivity: General

10. Multi-Criteria Analysis

A multi-criteria analysis (MCA) has been carried out to further rank the top 10 sites from the long list options. The MCA considers four additional criteria as shown in Table 11 below. The initial weighting of the criteria is as below, however, numerous different weighting scenarios were considered in a sensitivity analysis.

On top of the criteria listed in Table 12, bore locations and property ownership type (Public, Private, Maori) were found for each site. It was deemed that any bores onsite could be closed off before implementation of land disposal and therefore not considered in the MCA. Ownership type was excluded from the MCA and was instead set for later consideration should any sites be taken forward. However, in this case all 11 sites are on private freehold land.

Treaty settlement land was also considered following the MCA to identify if the proposed land was settled. None of the land being considered is settled, however, discussion with local iwi will need to take place to appropriately define whether each site is culturally acceptable for use.

Table 12: MCA Criteria

Criteria	Weighting
Long List Score	40%
Proximity to archaeological sites of significance	20%
Statutory Considerations (SNA, Wetlands)	20%
Existing Land Use (Land Cover, Aerials, LINZ Land Use)	20%

The initial long list ranking for each of the options was first recognized as a factor which needed to be considered due to its importance in site selection.

Impacts that the options could have on cultural sites and values is an important consideration which will not be included in the MCA due to it needing to be assessed in partnership with mana whenua. However, local marae and known sites of significance have been mapped in preparation for those discussions. Instead, archaeological sites of significance identified by NZAA have been used to identify the potential importance of the land area as a determinant for ease of consent.

Lastly, the existing land use has been determined by using the land cover database (LCDB), and locations of Significant Natural Areas (SNA) in the AOI. This was then verified using aerial photography with Photoblique. As with the drainage class, the land cover database is joined with the available land using a union in GIS and a percentage calculated for how much of the option is covered by certain types of land (e.g. High Production Exotic Grassland). SNA's are found in FNDC's geodatabase and if they cross one of the long-listed options, their impact on the usage of the site is determined and scored appropriately.

Considerations of any wetlands are also included in the land use category.

The results of this analysis can be seen below in Figures 9 – 10. Figure 9 shows the results of the chosen weighting from Table 12, where Figure 10 shows the variance exhibited by the sensitivity analysis in which differing weightings were compared. A score of 5 would represent a maximum score, whilst a score of 0 represents a minimum score for both figures.

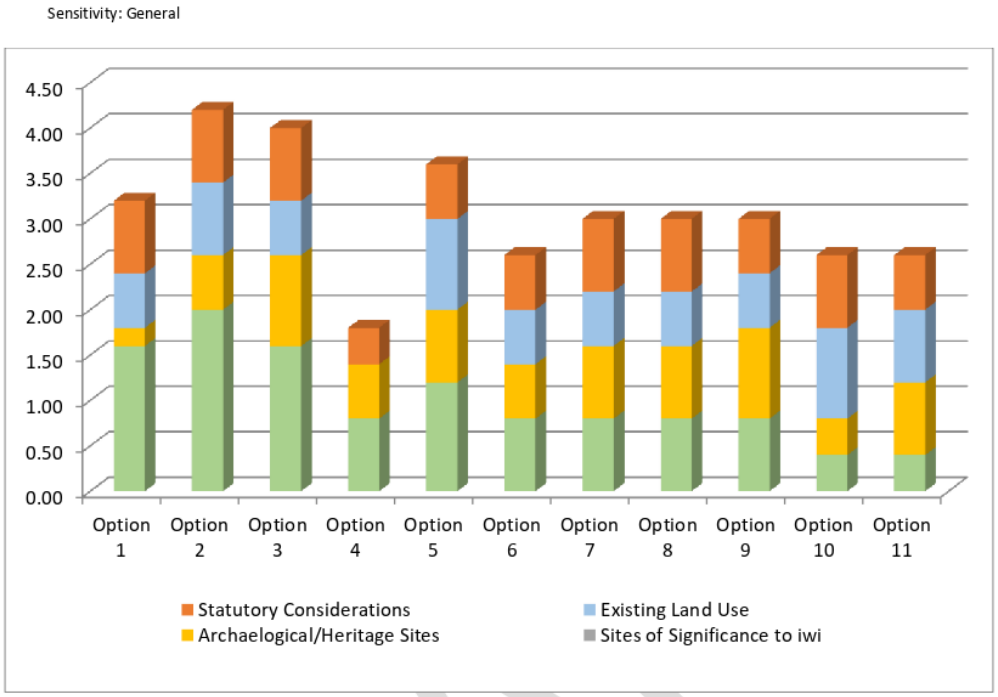


Figure 9: MCA Results

Option 2 was the top option and therefore investigated further in preparation for economic analysis. This investigation found that there were multiple dwellings with 150m of the site which would place restrictions on the method of disposal that would increase costs. It was decided instead to conduct the economic analysis on option 3 upon investigation finding it did not deal with the same issue.

The economic analysis provides FNDC a cost estimate to develop a wastewater discharge to land scheme (with -35% to +50% margin of error) to go to the community and council with. Discussion with the community and elected members as well as a rating impact assessment of the estimated cost will determine if land disposal is economically viable.

For more detail on the options displayed in Figure 9 above, see Appendix B for the sites location and long list ranking scores such as hydraulic drainage rates, and total available area for disposal.

All other options which were considered in the long list are still viable and should be considered in order of rank should the top 11 sites above prove unviable for land disposal. Should this be the case, then an MCA will be conducted from the next ten options from the long list to be investigated.

A sensitivity analysis was also conducted as below in Figure 10 to confirm the original findings.

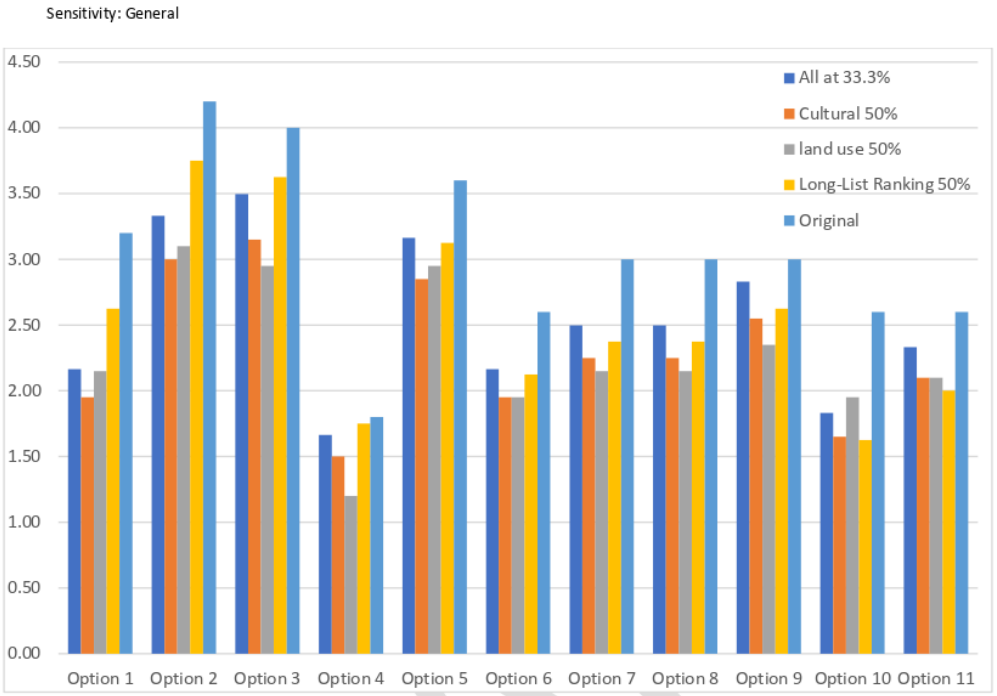


Figure 10: MCA Sensitivity Analysis

From this graph a consistent trend can be seen across the various scenarios indicating that the original weighting is reputable. This gives confidence in the original weighting results and allows for the scoring to be followed up on for further investigations should that be supported by council.

11. Closing Remarks

The Kaeo high-level economic analysis has been included as Appendix A which includes site specific costing prepared for option 3 in this report. The costing does not include land purchase or potential upgrades required by the Kaeo WWTP to discharge to land. Community engagement will be imperative to develop the relationships over time to properly consider land disposal as a viable option.

The high-level economic analysis can enable us to determine a cost estimate for establishing a wastewater discharge to land scheme for Kaeo. The cost estimate can then be used to estimate the rating impact of such a scheme. Estimated costs of a project are often criteria for determining whether a project should go ahead. While the costs for this project are relatively high, further investigation into the option of wastewater disposal to land may be warranted when considering other criteria such cultural and community preference.

If the option of wastewater discharge to land for Kaeo is to be progressed, the next steps include engagement with mana whenua and specific landowners to identify a preferred site or sites for on-site testing. On-site testing will seek to validate findings from the desktop analysis and investigate any

Sensitivity: General

unforeseen issues with the sites. Upon selection of preferred site that meets technical, cultural and landowner approval, a concept scheme design can be developed that includes an assessment of potential environmental effects of the proposed activity. Costs will also need to be revised and updated based upon the results of the concept design, which can then be taken to council again for a decision on whether a land disposal scheme should be implemented for the township of Kaeo.

12. References

- Land Information New Zealand. (2020, 17 Feb). *NZ River Centrelines (Topo, 1:50k).* Retrieved from https://data.linz.govt.nz/layer/50327-nz-river-centrelines-topo-150k/
- Daniel, J. (2020, 17 Feb). *Appendix B – Land Disposal Site Selection Analysis Report.* Jacobs New Zealand Limited.
- Slaney, A., Daniel, J., & MacDonald, B. (2020, 9 March). *Kohukohu WWTP issues and options.* Jacobs New Zealand Limited.
- Ross, H., Bryce, T., & Cussins, T. (2019, 31 October). *Ahipara WWTP preliminary land disposal options review*. Tonkin & Taylor Ltd.
- USEPA. (2006). *Process Design Manual Land Treatment of Municipal Wastewater Effluents*. Retrieved from https://cfpub.epa.gov/si/si_public_record_report.cfm?Lab=NRMRL&dirEntryId=159124
- *Bore Logs.* (2020, 28 July). Northland Regional Council. Retrieved from https://data-nrcgis.opendata.arcgis.com/datasets/bore-logs
- Northland Regional Council. Northland Soils Factsheet Viewer. (2020). Retrieved from https://nrcgis.maps.arcgis.com/apps/webappviewer/index.html?id=fd6bac88893049e1beae97c3467408a9.
- NZS1547. (2012). *Australian/New Zealand standard: onsite domestic wastewater management*.
- *Evaporation*. (2020). Cliflo, NIWA. Retrieved from https://cliflo.niwa.co.nz/pls/niwp/wgenf.genform1_proc.
- *Rainfall.* (2020) Cliflo, NIWA. Retrieved from https://cliflo.niwa.co.nz/pls/niwp/wgenf.genform1_proc.
- *LENZ – Slope*. (2011). LRIS Portal. Retrieved from https://lris.scinfo.org.nz/layer/48081-lenz-slope/.
- *LRIS – LCDB*. (2019). LRIS Portal. Retrieved from https://lris.scinfo.org.nz/layer/104400-lcdb-v50-land-cover-database-version-50-mainland-new-zealand/.
- *LRIS – NZLRI Soil*. (2010). LRIS Portal. Retrieved from https://lris.scinfo.org.nz/layer/48066-nzlri-soil/.
- Wilson, S., Shokri, A. (2015, April). *Auporuri Aquifer Review.* Lincoln Agritech Ltd.
- Northland Regional Council. *Groundwater.* (2012). Retrieved from https://www.nrc.govt.nz/resource-library-archive/environmental-monitoring-archive2/state-of-the-environment-report-archive/2011/state-of-the-environment-monitoring/our-freshwater/groundwater/.

DRAFT

Stakeholder/Partner Group	Role/Connection	Benefits of Involvement	Level of Interest	Level of Impact	Level of Influence
Individuals, sectors, or known groups.	*Role of stakeholder/partner and their connection to the project/proposition.* *What expectation does the stakeholder/partner have for their level of participation in the project?*	*What the stakeholder/partner can bring to the project that is of benefit.*	*What level of interest exists for the final outcome?*	*What level of impact will the project have on the stakeholder/partner?*	*What level of influence will be exhibited on the final outcomes? (Our promise - what is the highest level of participation we are prepared to offer?)*
Landowners of DTL project	Supplier (land purch/lease), end-user irrigation. High expectation of participation	Provides Land - Essential For Success of Project	High	High	Collaborate
Northland District Health Board	Public health and safety	Public safety assurances/trust	Medium	Low	Consult
Elected members (Infrastructure Committee)	Decision-making. Expect to be informed to be able to make decisions. Governing Body.	Decision making	Medium	Medium	Consult
Kaeo community (KC) (broad)	End-user of critical infrastructure. Use or have a relationship with the awa and moana.	Improve understanding of magnitude of effects, historical accounts of effects. Generate new ideas to mitigate adverse effects.	Medium	Medium	Consult
Rated community	Financial impact of DTL options	Inform FNDC on Affordability.	High	High	Consult
Neighbours to KWWTP	Nuisance effects of operation	Mitigating adverse effects (potential or actual).	Medium	Medium	Consult
Departmetnt of Conservation	Effects on indigenous biodiversity	Improve understanding of magnitude of effects, historical accounts of effects. Generate new ideas to mitigate adverse effects.	Medium	High	Consult
Aquaculture/Oyster Farming (Whangaroa)	Safety of harvested shellfish for human consumption	Improve understanding of magnitude of effects, historical accounts of effects. Generate new ideas to mitigate adverse effects.	High	High	Consult
Morgan whanau	kaitiaki mana whenua, highly interested/active in Council business/activity	Improve understanding of Te Mana o te Wai to Maori. Whanau trust and relationship development	Medium	Medium	Inform
Pouhere Taonga	DTL, sites downstream of discharge	Archaeological authority requirements, sites of heritage/arch significance	Medium	Medium	Consult
Te Runanga o Whaingaroa	Partnership role. High expectation of participation (local office first).	Treaty Partner. Help in facilitating engagement. Good relationship is critical to success of project.	High	High	Involve
Plastic free Kaeo	Big picture/active participants in sustainability. Water conservation, wastewater minimisation. Active and connected to community.	leverage their community connectedness (collaborative events), trusted information provider	Low	Low	Inform
Whangaroa Health Services (Charitable Trust)	Multiple service offerings to community (www.whst.org.nz). Highly connected/influential/trusted by community	leverage their community connectedness (collaborative events), trusted information provider	Medium	Low	Inform
Ecosolutions	(well) Funded by MFE. Good connections with likeminded people (sustainability), sustainable land practices, community garden projects, WHST.	leverage their community connectedness (collaborative events), trusted information provider. May want to offer ideas on waste management solutions/alternatives assessment contributions	Medium	Low	Inform
Predator free groups	Interest only.	Collaborative events and information sharing	Low	Low	Inform
River liaison management group (FNDC/NRC/Landowners/TRoW)	Significant interest RE enhancement and improvement of Te Mana o te Wai. Main focus is flooding at the moment.	Improve understanding of magnitude of effects, historical accounts of effects. Generate new ideas to mitigate adverse effects.	High	High	Involve
Waka Kotahi NZ Transport Agency	Active in Kaeo (for SH10 1-lane bridge). Interested in the project. Information sharing.	Sharing of contacts and experience of engagement in the Kaeo community	Low	Low	Inform
Waka Ama / Waka Atea	Shane Storey has a bit to do with the lady that runs it. Have large waka as well as waka ama. Kim to do a bit of follow up. High interest and expectation of participation as WQ has to be suitable for contact recreation for them to be able to get out on the water safely.	Improve understanding of magnitude of effects, historical accounts of effects. Generate new ideas to mitigate adverse effects.	Medium	Low	Inform
Great Whangaroa Kiwi Can Raft Race	High interest and expectation of participation due to impact WQ for contact recreation has to safety of participants and ability to hold event safely	Improve understanding of magnitude of effects, historical accounts of effects. Generate new ideas to mitigate adverse effects.	Medium	Low	Inform
Recreational users (awa, moana)	High interest and expectation of participation due to safety issue of kai moana/contact recreation. Role will be defined via individuals who identify recreational use interest.	Improve understanding of magnitude of effects, historical accounts of effects. Generate new ideas to mitigate adverse effects.	Low	Medium	Inform
Whangaroa District Notice Board Group (FB)	High interest but low expectation to participate given this is a medium for individuals as opposed to formal group. Posts will generate feedback. Tool to help find people who want to be involved/participate.	Improve understanding of magnitude of effects, historical accounts of effects. Generate new ideas to mitigate adverse effects.	High	Low	Inform
Whangaroa Community Trust	Bruce Mills/Eljon Fitzgerald. Improving amenities, Christmas Parade organisers, placemaking. People may go to the Trust for more information (high trust/low trust facilitation). Expect to be involved, will participate/mobilise (see ELC).	Improve understanding of magnitude of effects, historical accounts of effects. Generate new ideas to mitigate adverse effects.	Medium	Low	Inform

Stakeholder/Partner Group	Role/Connection	Benefits of Involvement	Level of Interest	Level of Impact	Level of Influence
Individuals, sectors, or known groups.	*Role of stakeholder/partner and their connection to the project/proposition.* *What expectation does the stakeholder/partner have for their level of participation in the project?*	*What the stakeholder/partner can bring to the project that is of benefit.*	*What level of interest exists for the final outcome?*	*What level of impact will the project have on the stakeholder/partner?*	*What level of influence will be exhibited on the final outcomes? (Our promise - what is the highest level of participation we are prepared to offer?)*
Whangaroa College	BoT level, medium expectation of involvement (DTL upstream may require higher involvement). Sliding scale (see ELC)	Improve understanding of magnitude of effects, historical accounts of effects. Generate new ideas to mitigate adverse effects.	Medium	Low	Inform
Creative minds early learning centre	Nuisance, health and safety concerns. Sliding scale of participation expectations depending on proximity, information sharing and knowledge	Improve understanding of magnitude of effects, historical accounts of effects. Generate new ideas to mitigate adverse effects.	Low	Low	Inform
Bowling Club	may be near DTL site (BB to check)? Nuisance, health and safety concerns. Sliding scale of participation expectations depending on proximity, information sharing and knowledge	Improve understanding of magnitude of effects, historical accounts of effects. Generate new ideas to mitigate adverse effects.	Low	Low	Inform
BOI Community Board	Representatives of community. Influential to decision-making for DTL. Bruce Mills BOI/Kaeo-Whangaroa, Cr Rachel Smith, Cr Clendon Council appointed representatives. Expect to be informed (Method: Workshop to give/receive their feedback)	Provide representation for the Kaeo community.	High	Medium	Consult
Kaeo Service Centre	Anna works there so need to keep her updated as a means of sharing information.	Allows for a local centre where community member can go to keep informed/ask questions.	Low	Low	Inform
Ventia	Responsible for operation of Kaeo WWTP.	Improve understanding of the current performance and issues of the Kaeo WWTP	Medium	Medium	Involve
Northland Regional Council	Consenting authority, state of the environment data, river hydrology	PRE-APPLICATION: Up to date guidance on application info expectations. SoE data and consent information sharing.	Low	High	Consult
Kaeo Primary Scheool	may be near DTL site (BB to check)? Nuisance, health and safety concerns. Sliding scale of participation expectations depending on proximity, information sharing and knowledge	Improve understanding of magnitude of effects, historical accounts of effects. Generate new ideas to mitigate adverse effects.	Low	Low	Inform

Marae Name	Wharenui	Location	Iwi *	Hapu
Mangaiti	Tau te Rangimarie	Omaunu Road	Ngapuhi/Ngati Kahu ki Wh	Ngati Pakahi
Pupuke	Te Huia	Te Huia Marae Road	Ngapuhi/Ngati Kahu ki Wh	Ngati Pakahi
Mangaiti	Tau te Rangimarie	Omaunu Road	Ngapuhi/Ngati Kahu ki Wh	Ngati Uru
Pupuke	Te Huia	Te Huia Marae Road	Ngapuhi/Ngati Kahu ki Wh	Ngati Uru
Pupuke	Te Huia	Te Huia Marae Road	Ngapuhi/Ngati Kahu ki Wh	Whanau Pani

Marae	Rep
Karangahape	Stephen Rush (Paddy)
Mangatōwai	Chris Henare
Ngaitupango	Karen Williams
Ōtangaroa	Liane Panui
Tākou	Hoki Tua
Taupō	Murray Moses
Te Tahaawai	Leilani Payne
Te Huia	Toa Faneva
Te Patunga	Ruth Heta
Te Tangata	Charlene Adams
Waihapa	Natalie Williams

For more information please contact governance@whaingaroa.iwi.nz

AVERAGE CAPITAL Rate - per connection	Y1	Y2	Y3	Y4	Y5	Y6	Y7	Y8	Y9	Y10
Option Estimate	$ -	$ -	$ -	$ -	$ 1,205.60	$ 1,183.26	$ 1,160.91	$ 1,138.57	$ 1,116.22	$ 1,093.88
Option Estimate 30%	$ -	$ -	$ -	$ -	$ 843.92	$ 828.28	$ 812.64	$ 797.00	$ 781.35	$ 765.71
Option Estimate 50%	$ -	$ -	$ -	$ -	$ 1,808.40	$ 1,774.88	$ 1,741.37	$ 1,707.85	$ 1,674.33	$ 1,640.81

OPERATING Rate per connection	Rate based on opex spend on Options
Option Estimate	$ -
Option Estimate 30%	$ -
Option Estimate 50%	$ -

Current connections	CAPITAL	OPERATING
Connections Availability	240	13038
Pans		4071
Weighted Numbers	240	15481

Interest Rates	Y1	Y2	Y3	Y4	Y5	Y6	Y7	Y8	Y9	Y10
	0.022	0.018	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015

			Cost Estimates										Depreciation										Debt Repayment										Interest									
Asset Detail	Total Spend	Average Depreciable Life	Y1	Y2	Y3	Y4	Y5	Y6	Y7	Y8	Y9	Y10	Y1	Y2	Y3	Y4	Y5	Y6	Y7	Y8	Y9	Y10	Y1	Y2	Y3	Y4	Y5	Y6	Y7	Y8	Y9	Y10	Y1	Y2	Y3	Y4	Y5	Y6	Y7	Y8	Y9	Y10
Option Estimate																																										
Pre-engineered	179,608	30				179,608							0	0	0	0	5,987	5,987	5,987	5,987	5,987	5,987	0	0	0	0	8,980	8,980	8,980	8,980	8,980	8,980	0	0	0	0	2,694	2,559	2,425	2,290	2,155	2,021
4.7km of PE125	1,765,061	100				1,765,061							0	0	0	0	17,651	17,651	17,651	17,651	17,651	17,651	0	0	0	0	88,253	88,253	88,253	88,253	88,253	88,253	0	0	0	0	26,476	25,152	23,828	22,505	21,181	19,857
Allowance for air	81,640	70				81,640							0	0	0	0	1,166	1,166	1,166	1,166	1,166	1,166	0	0	0	0	4,082	4,082	4,082	4,082	4,082	4,082	0	0	0	0	1,225	1,163	1,102	1,041	980	918
Kaeo River	97,968	50				97,968							0	0	0	0	1,959	1,959	1,959	1,959	1,959	1,959	0	0	0	0	4,898	4,898	4,898	4,898	4,898	4,898	0	0	0	0	1,470	1,396	1,323	1,249	1,176	1,102
Electrical control	81,640	20				81,640							0	0	0	0	4,082	4,082	4,082	4,082	4,082	4,082	0	0	0	0	4,082	4,082	4,082	4,082	4,082	4,082	0	0	0	0	1,225	1,163	1,102	1,041	980	918
Irrigation system	1,477,687	30				1,477,687							0	0	0	0	49,256	49,256	49,256	49,256	49,256	49,256	0	0	0	0	73,884	73,884	73,884	73,884	73,884	73,884	0	0	0	0	22,165	21,057	19,949	18,841	17,732	16,624
Planting of	591,075	25				591,075							0	0	0	0	23,643	23,643	23,643	23,643	23,643	23,643	0	0	0	0	29,554	29,554	29,554	29,554	29,554	29,554	0	0	0	0	8,866	8,423	7,980	7,536	7,093	6,650
Storage pond 75m	1,518,507	50				1,518,507							0	0	0	0	30,370	30,370	30,370	30,370	30,370	30,370	0	0	0	0	75,925	75,925	75,925	75,925	75,925	75,925	0	0	0	0	22,778	21,639	20,500	19,361	18,222	17,083
Site preparation	122,460	50				122,460							0	0	0	0	2,449	2,449	2,449	2,449	2,449	2,449	0	0	0	0	6,123	6,123	6,123	6,123	6,123	6,123	0	0	0	0	1,837	1,745	1,653	1,561	1,470	1,378
Pond Area Fencing	62,308	15				62,308							0	0	0	0	4,154	4,154	4,154	4,154	4,154	4,154	0	0	0	0	3,115	3,115	3,115	3,115	3,115	3,115	0	0	0	0	935	888	841	794	748	701
Irrigation pump	40,820	15				40,820							0	0	0	0	2,721	2,721	2,721	2,721	2,721	2,721	0	0	0	0	2,041	2,041	2,041	2,041	2,041	2,041	0	0	0	0	612	582	551	520	490	459
Electrical,	48,984	10				48,984							0	0	0	0	4,898	4,898	4,898	4,898	4,898	4,898	0	0	0	0	2,449	2,449	2,449	2,449	2,449	2,449	0	0	0	0	735	698	661	625	588	551
Consent	150,000	15				150,000							0	0	0	0	10,000	10,000	10,000	10,000	10,000	10,000	0	0	0	0	7,500	7,500	7,500	7,500	7,500	7,500	0	0	0	0	2,250	2,138	2,025	1,913	1,800	1,688
													0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Opex		0											0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6,217,760		0	0	0	6,217,760	0	0	0	0	0	0	0	0	0	0	158,337	158,337	158,337	158,337	158,337	158,337	0	0	0	0	310,888	310,888	310,888	310,888	310,888	310,888	0	0	0	0	93,266	88,603	83,940	79,276	74,613	69,950
Option Estimate - 30%																																										
Pre-engineered	125,726	30				125,726							0	0	0	0	4,191	4,191	4,191	4,191	4,191	4,191	0	0	0	0	6,286	6,286	6,286	6,286	6,286	6,286	0	0	0	0	1,886	1,792	1,697	1,603	1,509	1,414
4.7km of PE125	1,235,543	100				1,235,543							0	0	0	0	12,355	12,355	12,355	12,355	12,355	12,355	0	0	0	0	61,777	61,777	61,777	61,777	61,777	61,777	0	0	0	0	18,533	17,606	16,680	15,753	14,827	13,900
Allowance for air	57,148	70				57,148							0	0	0	0	816	816	816	816	816	816	0	0	0	0	2,857	2,857	2,857	2,857	2,857	2,857	0	0	0	0	857	814	771	729	686	643
Kaeo River	68,578	50				68,578							0	0	0	0	1,372	1,372	1,372	1,372	1,372	1,372	0	0	0	0	3,429	3,429	3,429	3,429	3,429	3,429	0	0	0	0	1,029	977	926	874	823	771
Electrical control	57,148	20				57,148							0	0	0	0	2,857	2,857	2,857	2,857	2,857	2,857	0	0	0	0	2,857	2,857	2,857	2,857	2,857	2,857	0	0	0	0	857	814	771	729	686	643
Irrigation system	1,034,381	30				1,034,381							0	0	0	0	34,479	34,479	34,479	34,479	34,479	34,479	0	0	0	0	51,719	51,719	51,719	51,719	51,719	51,719	0	0	0	0	15,516	14,740	13,964	13,188	12,413	11,637
Planting of	413,752	25				413,752							0	0	0	0	16,550	16,550	16,550	16,550	16,550	16,550	0	0	0	0	20,688	20,688	20,688	20,688	20,688	20,688	0	0	0	0	6,206	5,896	5,586	5,275	4,965	4,655
Storage pond 75m	1,062,955	50				1,062,955							0	0	0	0	21,259	21,259	21,259	21,259	21,259	21,259	0	0	0	0	53,148	53,148	53,148	53,148	53,148	53,148	0	0	0	0	15,944	15,147	14,350	13,553	12,755	11,958
Site preparation	85,722	50				85,722							0	0	0	0	1,714	1,714	1,714	1,714	1,714	1,714	0	0	0	0	4,286	4,286	4,286	4,286	4,286	4,286	0	0	0	0	1,286	1,222	1,157	1,093	1,029	964
Pond Area Fencing	43,615	15				43,615							0	0	0	0	2,908	2,908	2,908	2,908	2,908	2,908	0	0	0	0	2,181	2,181	2,181	2,181	2,181	2,181	0	0	0	0	654	622	589	556	523	491
Irrigation pump	28,574	15				28,574							0	0	0	0	1,905	1,905	1,905	1,905	1,905	1,905	0	0	0	0	1,429	1,429	1,429	1,429	1,429	1,429	0	0	0	0	429	407	386	364	343	321
Electrical,	34,289	10				34,289							0	0	0	0	3,429	3,429	3,429	3,429	3,429	3,429	0	0	0	0	1,714	1,714	1,714	1,714	1,714	1,714	0	0	0	0	514	489	463	437	411	386
Consent	105,000	15				105,000							0	0	0	0	7,000	7,000	7,000	7,000	7,000	7,000	0	0	0	0	5,250	5,250	5,250	5,250	5,250	5,250	0	0	0	0	1,575	1,496	1,418	1,339	1,260	1,181
Opex		0											0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4,352,432		0	0	0	4,352,432	0	0	0	0	0	0	0	0	0	0	110,836	110,836	110,836	110,836	110,836	110,836	0	0	0	0	217,622	217,622	217,622	217,622	217,622	217,622	0	0	0	0	65,286	62,022	58,758	55,494	52,229	48,965
Option Estimate +50%																																										
Pre-engineered	269,413	30				269,413							0	0	0	0	8,980	8,980	8,980	8,980	8,980	8,980	0	0	0	0	13,471	13,471	13,471	13,471	13,471	13,471	0	0	0	0	4,041	3,839	3,637	3,435	3,233	3,031
4.7km of PE125	2,647,591	100				2,647,591							0	0	0	0	26,476	26,476	26,476	26,476	26,476	26,476	0	0	0	0	132,380	132,380	132,380	132,380	132,380	132,380	0	0	0	0	39,714	37,728	35,742	33,757	31,771	29,785
Allowance for air	122,460	70				122,460							0	0	0	0	1,749	1,749	1,749	1,749	1,749	1,749	0	0	0	0	6,123	6,123	6,123	6,123	6,123	6,123	0	0	0	0	1,837	1,745	1,653	1,561	1,470	1,378
Kaeo River	146,952	50				146,952							0	0	0	0	2,939	2,939	2,939	2,939	2,939	2,939	0	0	0	0	7,348	7,348	7,348	7,348	7,348	7,348	0	0	0	0	2,204	2,094	1,984	1,874	1,763	1,653
Electrical control	122,460	20				122,460							0	0	0	0	6,123	6,123	6,123	6,123	6,123	6,123	0	0	0	0	6,123	6,123	6,123	6,123	6,123	6,123	0	0	0	0	1,837	1,745	1,653	1,561	1,470	1,378
Irrigation system	2,216,531	30				2,216,531							0	0	0	0	73,884	73,884	73,884	73,884	73,884	73,884	0	0	0	0	110,827	110,827	110,827	110,827	110,827	110,827	0	0	0	0	33,248	31,586	29,923	28,261	26,598	24,936
Planting of	886,612	25				886,612							0	0	0	0	35,464	35,464	35,464	35,464	35,464	35,464	0	0	0	0	44,331	44,331	44,331	44,331	44,331	44,331	0	0	0	0	13,299	12,634	11,969	11,304	10,639	9,974
Storage pond 75m	2,277,761	50				2,277,761							0	0	0	0	45,555	45,555	45,555	45,555	45,555	45,555	0	0	0	0	113,888	113,888	113,888	113,888	113,888	113,888	0	0	0	0	34,166	32,458	30,750	29,041	27,333	25,625
Site preparation	183,690	50				183,690							0	0	0	0	3,674	3,674	3,674	3,674	3,674	3,674	0	0	0	0	9,185	9,185	9,185	9,185	9,185	9,185	0	0	0	0	2,755	2,618	2,480	2,342	2,204	2,067
Pond Area Fencing	93,462	15				93,462							0	0	0	0	6,231	6,231	6,231	6,231	6,231	6,231	0	0	0	0	4,673	4,673	4,673	4,673	4,673	4,673	0	0	0	0	1,402	1,332	1,262	1,192	1,122	1,051
Irrigation pump	61,230	15				61,230							0	0	0	0	4,082	4,082	4,082	4,082	4,082	4,082	0	0	0	0	3,062	3,062	3,062	3,062	3,062	3,062	0	0	0	0	918	873	827	781	735	689
Electrical,	73,476	10				73,476							0	0	0	0	7,348	7,348	7,348	7,348	7,348	7,348	0	0	0	0	3,674	3,674	3,674	3,674	3,674	3,674	0	0	0	0	1,102	1,047	992	937	882	827
Consent	225,000	15				225,000							0	0	0	0	15,000	15,000	15,000	15,000	15,000	15,000	0	0	0	0	11,250	11,250	11,250	11,250	11,250	11,250	0	0	0	0	3,375	3,206	3,038	2,869	2,700	2,531
						0							0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Opex		0	0										0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	9,326,640		0	0	0	9,326,640	0	0	0	0	0	0	0	0	0	0	237,506	237,506	237,506	237,506	237,506	237,506	0	0	0	0	466,332	466,332	466,332	466,332	466,332	466,332	0	0	0	0	139,900	132,905	125,910	118,915	111,920	104,925



berl

Making sense of the numbers

Rates affordability in the Far North

Hōngongoi 2020

www.berl.co.nz

Authors: Hugh Dixon and Hannah Riley

All work is done, and services rendered at the request of, and for the purposes of the client only. Neither BERL nor any of its employees accepts any responsibility on any grounds whatsoever, including negligence, to any other person.

While every effort is made by BERL to ensure that the information, opinions and forecasts provided to the client are accurate and reliable, BERL shall not be liable for any adverse consequences of the client's decisions made in reliance of any report provided by BERL, nor shall BERL be held to have given or implied any warranty as to whether any report provided by BERL will assist in the performance of the client's functions.

©BERL Reference No: #6068 Hōngongoi 2020

Rates as a percentage (%) of gross household income



Single superannuitant
with no other income

	FNDC RATES %	NRC RATES %	TOTAL RATES %
Te Hiku	9.4	1.0	10.5
BOI-Whangaroa	9.9	1.0	10.8
Kaikohe-Hokianga	8.9	1.0	9.8
Total Far North District	**9.0**	**1.2**	**10.2**

Married superannuitant
with no other income

	FNDC RATES %	NRC RATES %	TOTAL RATES %
Te Hiku	6.2	0.7	6.9
BOI-Whangaroa	6.5	0.6	7.1
Kaikohe-Hokianga	5.9	0.6	6.5
Total Far North District	**5.9**	**0.8**	**6.7**

Single working person
(no children)

	FNDC RATES %	NRC RATES %	TOTAL RATES %
Te Hiku	4.5	0.5	5.0
BOI-Whangaroa	4.1	0.4	4.5
Kaikohe-Hokianga	4.7	0.5	5.2
Total Far North District	**4.1**	**0.5**	**4.6**

Single adult with 2 children,
on benefit

	FNDC RATES %	NRC RATES %	TOTAL RATES %
Te Hiku	11.5	1.3	12.8
BOI-Whangaroa	12.0	1.2	13.2
Kaikohe-Hokianga	10.9	1.2	12.0
Total Far North District	**11.0**	**1.5**	**12.4**

Single adult with 2 children,
employed

	FNDC RATES %	NRC RATES %	TOTAL RATES %
Te Hiku	4.5	0.5	5.0
BOI-Whangaroa	4.1	0.4	4.5
Kaikohe-Hokianga	4.7	0.5	5.2
Total Far North District	**4.1**	**0.5**	**4.6**

Couple with 2 children,
one employed

	FNDC RATES %	NRC RATES %	TOTAL RATES %
Te Hiku	4.5	0.5	5.0
BOI-Whangaroa	4.1	0.4	4.5
Kaikohe-Hokianga	4.7	0.5	5.2
Total Far North District	**4.1**	**0.5**	**4.6**

Couple with 2 children,
both employed

	FNDC RATES %	NRC RATES %	TOTAL RATES %
Te Hiku	2.2	0.2	2.5
BOI-Whangaroa	2.0	0.2	2.2
Kaikohe-Hokianga	2.4	0.3	2.6
Total Far North District	**2.0**	**0.3**	**2.3**

2 working adults,
based in Auckland

	FNDC RATES %	NRC RATES %	TOTAL RATES %
Te Hiku	1.7	0.2	1.9
BOI-Whangaroa	1.8	0.2	2.0
Kaikohe-Hokianga	1.6	0.2	1.8
Total Far North District	**1.6**	**0.2**	**1.8**

berl *Making sense of* the numbers www.berl.co.nz

Contents

1 Introduction....1
1.1 Scope of the report....1
1.2 Rates as a funding mechanism....1
1.3 Affordability....1
1.4 Household types....3
1.5 Data sources....3
1.6 Methodology....3
1.7 Assumptions and limitations....4
1.7.1 Income data....4
1.7.2 Rates data....5
1.7.3 Household data....7
2 Map of Far North District areas....8
3 Total Far North District....9
4 Ratepayer and household counts....11
5 Conclusion....13
6 Impact of COVID-19....14
Appendix A Household counts by ward....15
Appendix B Te Hiku Ward....16
Appendix C Bay of Islands-Whangaroa Ward....18
Appendix D Kaikohe-Hokianga Ward....20
Appendix E Smaller areas within the Far North District....22
Appendix F Average rates assessment for all areas....41

Figures

Figure 1 Map of Far North District study areas 8
Figure 2 Ratepayer count by ward, 2018 11
Figure 3 Percentage by broad age groups, Te Hiku Ward, 2018 16
Figure 4 Percentage by broad age groups, Bay of Island-Whangaroa Ward, 2018 18
Figure 5 Percentage by broad age groups, Kaikohe-Hokianga Ward, 2018 20

Tables

Table 1 Average weekly income for employed between 20 and 65 years of age, all regions, 2019 4
Table 2 Rates payable, Far North District 10
Table 3 Total rates as a percentage of gross income by household type, Far North District 10
Table 4 Household counts by household type, Far North District, 2018 12
Table 5 Household counts by household type, Far North District, 2013 and 2018 12
Table 6 Household counts by household type, wards, 2018 15
Table 7 Percentage share of households by household type, wards, 2018 15
Table 8 Rates payable, Te Hiku Ward 17
Table 9 Total rates as a percentage of gross income by household type, Te Hiku Ward 17
Table 10 Rates payable, Bay of Islands-Whangaroa Ward 19
Table 11 Total rates as a percentage of gross income by household type, Bay of Islands-Whangaroa Ward 19
Table 12 Rates payable, Kaikohe-Hokianga Ward 21
Table 13 Total rates as a percentage of gross income by household type, Kaikohe-Hokianga Ward 21
Table 14 Rates payable, Kerikeri 23
Table 15 Total rates as a percentage of gross income by household type, Kerikeri 24
Table 16 Rates payable, Kaikohe 25
Table 17 Total rates as a percentage of gross income by household type, Kaikohe 25
Table 18 Rates payable, Opononi and Omapere 27
Table 19 Total rates as a percentage of gross income by household type, Opononi and Omapere 27
Table 20 Rates payable, Kaitaia 28
Table 21 Total rates as a percentage of gross income by household type, Kaitaia 29
Table 22 Rates payable, Ahipara 30
Table 23 Total rates as a percentage of gross income by household type, Ahipara 31
Table 24 Rates payable, Russell 33
Table 25 Total rates as a percentage of gross income by household type, resident owners, Russell 33
Table 26 Total rates as a percentage of gross income by household type, non-resident owners, Russell 34
Table 27 Rates payable, Paihia 36
Table 28 Total rates as a percentage of gross income by household type, resident owners, Paihia 36

Table 29 Total rates as a percentage of gross income by household type, non-resident owners, Paihia 37
Table 30 Rates payable, Karikari Peninsula 38
Table 31 Total rates as a percentage of gross income by household type, resident owners, Karikari Peninsula 39
Table 32 Total rates as a percentage of gross income by household type, non-resident owners, Karikari Peninsula 40
Table 33 Median rates 41
Table 34 Median rates as a percentage of gross income for single superannuitant with no other income for each area 41
Table 35 Median rates as a percentage of gross income for married superannuitant with no other income for each area 42
Table 36 Median rates as a percentage of gross income for single working person with no kids for each area 42
Table 37 Median rates as a percentage of gross income for single working person with no kids for each area 43
Table 38 Median rates as a percentage of gross income for single working person with two children for each area 43
Table 39 Median rates as a percentage of gross income for a couple with two children and one adult worker for each area 44
Table 40 Median rates as a percentage of gross income for a couple, with two children who are employed for each area 44
Table 41 Median rates as a percentage of gross income for two working adults with no kids, based in Auckland for each area 45

1 Introduction

The Far North District Council (FNDC) commissioned Business and Economic Research Limited (BERL) to conduct data analysis of rates affordability across the Far North District and prepare a report outlining rates affordability issues.

1.1 Scope of the report

BERL provided the FNDC with an analysis of the prevalence of rates unaffordability and affordability across the District, for eight different constructed household types. We constructed typical household types based on the residential properties in the Far North. It should be noted that the report only looked at residential rates. Establishing affordability at a commercial level is not feasible and was not considered. BERL determined the median, lower quartile and upper quartile household affordability for the District, as well as smaller geographic areas within the District.

1.2 Rates as a funding mechanism

The Local Government (Rating) Act (LGRA) came into effect in 2002, authorising local and regional authorities to set, assess, and collect rates to fund local government activities. A key aim of the LGRA is to establish clarity, certainty, and stability in rating matters.

The three main purposes of the LGRA are:

- To provide local authorities with flexible powers to set, assess, and collect rates
- To ensure rates reflect decisions made in a transparent and consultative manner
- To provide for processes and information to ensure ratepayers can identify and understand their liability for rates.[1]

Funding mechanisms, as set out in the LGRA, including general rates, such as value based general rates or uniform annual general charges (UAGC), and targeted rates, allow local and regional authorities to raise revenue from the community as a whole. As well as those who use or generate need for a service or amenity, or specified groups or categories of ratepayers. These funding tools and their manner of collection, determines the cost of local services and affects affordability of services for individual households.

1.3 Affordability

Affordability in the context of rates has two aspects:

- The cost relative to income (and wealth to the extent that wealth can be converted into income)
- The ability of ratepayers to earn greater income in the future from the spending of the rates, e.g. investment in infrastructure that will allow an individual to earn higher incomes in the future.

Sustainability can be defined as the ability to meet present needs without compromising the needs of future generations. Sustainability represents an extended definition of affordability in the sense that sustainability introduces a longer timeframe in which the issues of fairness and risk must be considered. Within this report, we will explore the cost of rates relative to income.

[1] http://www.localcouncils.govt.nz/lgip.nsf/wpg_url/Policy-Local-Government-Legislation-Local-Government-(Rating)-Act-2002 Retrieved 22 November 2018

Local and regional authorities within New Zealand have a strong reliance on property rates as a taxing instrument, and this may create some affordability issues particularly for households with low or fixed incomes, such as superannuitants, or high property values. Affordability issues may also arise where households are facing financial adversity due to the portion of income spent on housing costs, including rates. Therefore, districts with high levels of low incomes or fixed incomes, will generally face issues regarding affordability. Changes in demographics, i.e. aging populations and changes in household composition, may likewise have implications on affordability.[2]

The Local Government Funding Review stated:

> "Basing rates on the value of property means that for some individuals with reasonably valuable property but limited income, paying rates can cause financial strain. All councils will have some ratepayers in this situation, even if all the issues outlined (rating differentials and statutory rating exemptions) are addressed, and rates are set at a level that is reasonable and affordable for the majority of the community".[3]

Concerns about the impact of rates increases on low-income households led to the establishment of The Local Government Rates Inquiry (the Inquiry) in 2007. The resulting report, known as the Shand Report after the Chair David Shand, concluded that rates affordability was the ability to pay rates without serious economic difficulty. The inquiry noted that in 2004, the average rates paid by households represented 2.51 percent for all groups and although there are likely to be pockets of affordability in all types of household, they did not consider rates affordability was a problem for the average household. As an approximate benchmark, affordability concerns will arise where rates exceed five percent of gross household income.[4]

The report also suggested that particular household types will demonstrate rates affordability issues:

- Households in the lowest 40 percent of incomes
- One parent households with children
- One person households
- Households whose principal source of income is New Zealand Superannuation.

These households predominantly have low or fixed incomes.

Consequently, we have used the affordability benchmarks of:

- Rates as a percentage of gross household income, where affordability issues are likely to arise when rates exceed five percent.

To indicate rates affordability issues in each of the tables in this report, we have highlighted every table row grey, where total rates exceed five percent of the household's gross income.

[2] *Local government funding and financing: Issues Paper* (2018). New Zealand Productivity Commission
[3] *Local Government Funding Review – a discussion paper* (2015). National Council of Local Government New Zealand
[4] *Funding Local Government* (2007). Wellington: Department of Internal Affairs

1.4 Household types

Eight household types were used in this report. The following household types were derived from a case study report on rates affordability in agreement with Far North District Council (FNDC):

- Single superannuitant with no other income
- Married superannuitant with no other income
- Single adult earning average wage
- Single adult with two children, in receipt of Sole Parent Support
- Single adult with two children, earning average wage
- Couple with two children, one adult earning average wage
- Couple with two children, two adults earning average wage
- Couple with no children at home, two adults earning average wage (based in Auckland).

For all case study households, we compared the differences between lower, median and high quartile rates within each of the following areas:

- Total Far North District
- Te Hiku Ward
- Bay of Islands – Whangaroa Ward
- Kaikohe-Hokianga Ward
- Smaller areas (Kerikeri, Kaikohe, Opononi and Omapere, Kaitaia, Ahipara, Russell, Paihia, and Karikari Peninsula).

Rates figures include all local and regional rates, included targeted rates, and have a breakdown of local authority and FNDC values.

1.5 Data sources

The data in this report has been collected from the following sources:

- Statistics New Zealand (StatsNZ)
  - 2018 Census
  - Household Labour Force Survey (income module), June 2019
- Inland Revenue Department
- Ministry of Social Development
- Far North District Council.

Data on household income within each local authority for each type of household was used.

1.6 Methodology

A rates affordability model was built for each of the wards in the Far North. Within each model the income has been calculated separately for the eight household types from section 1.4.

The affordability of the relevant combined local and regional rates at the lower quartile, median and high quartile were then assessed against gross income.

1.7 Assumptions and limitations

A number of assumptions and limitations were made, and these are described in the following sub-sections.

1.7.1 Income data

As shown in Table 1, the Northland region had the sixth lowest average weekly income for employed people aged between 20 and 65 years of age, at $1,150, as at June 2019. This is $86 lower than the New Zealand average of $1,236, or just over $4,500 annually. The average weekly income for people aged between 20 and 65 years of age has been used because this fits with the five household types analysed in this report.

Table 1 Average weekly income for employed between 20 and 65 years of age, all regions, 2019

Region	Average weekly income 2019 ($)
Northland Region	1,150
Auckland Region	1,307
Waikato Region	1,188
Bay of Plenty Region	1,153
Gisborne/Hawkes Bay Regions	1,113
Taranaki Region	1,117
Manawatu-Wanganui Region	1,083
Wellington Region	1,363
Nelson/Tasman/Marlborough/West Coast Regions	1,102
Canterbury Region	1,221
Otago Region	1,083
Southland Region	1,234
New Zealand	1,236

The figures in the table are regional figures, so to estimate the average weekly earnings for employed people in the Far North District requires a number of adjustments as noted below.

For cases where wages and salary were the assumed source of income, the June 2019 weekly average individual income for people aged between 20 and 65, from the Household Labour Force Survey has been used. To calculate the annual average individual incomes, this weekly average individual income has been multiplied by 52, which does assume that effectively every employed member of the household is on a fixed salary rather than an hourly wage.

In addition, because the Household Labour Force Survey can only provide regional income, the Northland Region average income has been used. Finally we have used the average employed individual income, and total individual income from 2018 Census data to find the ratio between the overall Northland region average employed income to the Far North District Council average

employed income. As well as the individual ward and smaller locations average employed income. This allowed the model to adjust the June 2019 average income data to more fairly represent the Far North District Council area, the individual wards and the smaller locations within the District.

For example:

Northland regional average weekly income (June 2019) for employed people aged between 20 and 65 years of age = $1,150 per week.

Multiplying this weekly figure by 52 yielded the Northland regional average annual income for employed people aged between 20 and 65 years of age = $59,777.

Taking the Far North District council average income as at the 2018 Census: $42,931 and dividing it by the Northland regional average income as at the 2018 Census: $47,194 yield the following income adjustment factor = 0.91.

Multiplying the adjustment factor by the annual regional average income yielded an average annual income for employed people aged between 20 and 65 years of age = $54,378.

New Zealand Superannuation data used for single and married people on superannuation, and Sole Parent Support rates are accurate at 1 April 2019.

1.7.2 Rates data

FNDC supplied the rating data for the rating year 2019/20, inclusive of GST. The following rating information for 41,064 rating units within the District was provided:

- Unique identifier code
- Capital value
- Land value
- Land use description / Rating category
- Ward location
- FNDC fixed rates
- FNDC targeted rates
- Northland Regional Council (NRC) fixed rates
- NRC targeted rates
- Total assessed rates
- Non-rateable flag
- Location of property owner (inside or outside of the District).

Using this information, we removed all non-residential properties as identified using the land use description/rating category variable. This left 22,762 initial residential property rating units within the District.

BERL undertook a number of steps to ensure that every residential property used in the final calculation phase met the following criteria:

- Had both FNDC and NRC rates assessed for the rating unit
- Had a ward location (Te Hiku Ward, Kaikohe-Hokianga Ward, or Bay of Islands-Whangaroa Ward)

- Did not have a non-rateable flag assigned to it; this flag indicates that the flagged property does not receive a rates bill
- Did not have a residential-special accommodation, residential-public communal-licensed, residential-public communal-unlicensed, residential-communal residence dependant or other use, or residential-vacant land use description. These rating units cannot be categorised as a standard dwelling for a household to reside in, being comprised of rest homes, motels, hotels, college accommodation, or vacant land.

This process ensured that each residential property included in the rating affordability assessment had a dwelling that a household could reside in, had rating information that could be used to assess rating affordability, and fitted into the standard residential property category.

Therefore, the following steps were undertaken to ensure each property met the criteria above:

- Removal of all properties with a non-rateable flag indicator
- Removal of all properties with non FNDC and NRC rates assessed for them
- Removal of all properties with a residential-special accommodation, residential-public communal-licensed, residential-public communal-unlicensed, residential-communal residence dependant or other use, or residential-vacant land use description
- Removal of all properties without a ward location (Te Hiku Ward, Kaikohe-Hokianga Ward, or Bay of Islands-Whangaroa Ward).

Removal of these properties resulted in 17,446 of the original 22,762 residential properties being usable for the rating affordability assessment. As part of the assessment, BERL identified residential properties flagged as having owners living inside the District, as well those residential properties flagged as having owners living outside the District. Out of the 17,446 residential properties, 13,083 were flagged as having owners living inside the District, while 4,363 were flagged as having owners living outside the District.

The last step, undertaken prior to the assessment, was to identify those properties listed with multiple dwellings, and to adjust the total rates for the number of dwellings on the property. For example, a rating unit with two dwellings had their FNDC and NRC rates divided by two for assessing rating affordability, as it would be reasonable to assume that two different families could be living in the two dwellings. To do this BERL undertook the following steps:

- Assumed that rating units with land use descriptions of residential-bach and residential-single unit (other than bach) only had a single dwelling on the rating unit. This covers 16,600 of the residential properties
- For the 846 properties with the land use description of residential-multi unit and residential-multi use, the top 100 properties in terms of total rates were manually investigated by BERL to determine the total number of dwellings present on each rating unit
- Analysis of the remaining 746 properties revealed that rating units with a capital value in excess of $200,000 higher than their land value generally had two dwellings on the rating unit, while those with a capital value lower than $200,000 higher than their land value, generally only had one dwelling on the rating unit. Therefore, BERL has assumed that the 561 rating units with a capital value in excess of $200,000 higher than their land value had two dwellings, and that the 185 rating units with a capital value lower than $200,000 higher than their land value had only one dwelling.

For each of the eight household types, BERL determined the median, lower quartile and upper quartile properties of each of four locations (Total, Te Hiku Ward, Kaikohe-Hokianga Ward, and Bay of Islands-Whangaroa Ward) and compared their FNDC, NRC, and total rates against gross income.

1.7.3 Household data

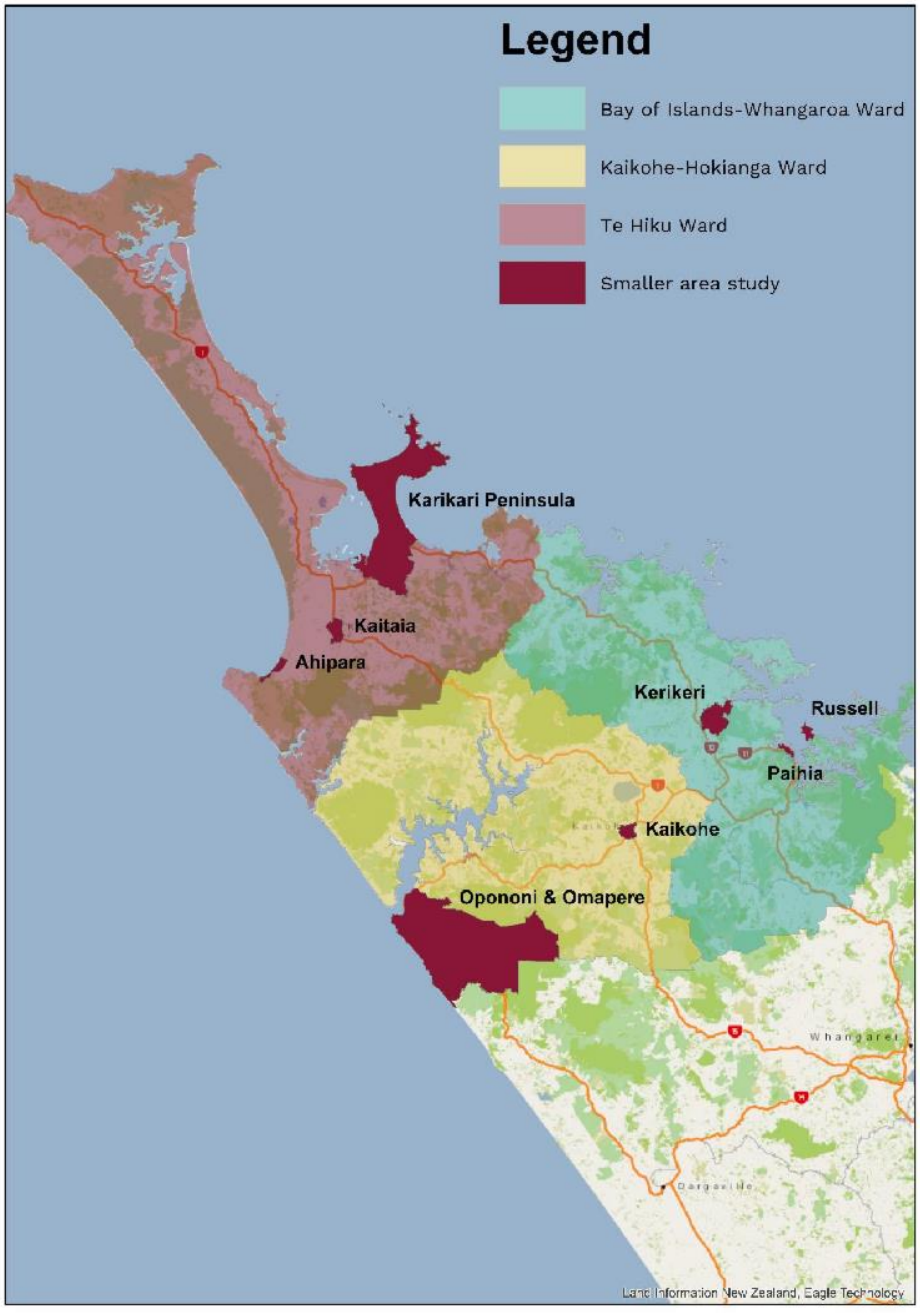
The 2018 Census data provided the number of households by household type. This information was used for the types of households, except for those households normally resident in Auckland, who own secondary houses in the Far North District. The Census is focussed on people's main residences, there is no information on secondary homes available from the Census.

Therefore, to estimate the number of households in this eighth household type, we examined the number of empty dwellings across the District as well as the three wards and eight smaller areas, from the 2018 Census. Empty dwellings in the Census are dwellings in which no one is a usual resident. These dwellings include those rented long-term but not currently occupied, those that are rented to short-term occupiers, those that are secondary homes, and other empty dwellings.

To derive an estimate of the eighth household type (two working adults, based in Auckland), BERL has combined the number of empty dwellings in an area, with information on the location of Airbnb and other short-term rentals, and information from the Far North District Council on the locations of dwellings owned by those outside the District. 2018 Household counts by household type for the Far North District, and the three wards can be found in section 4 of this report.

2 Map of Far North District areas

Figure 1 Map of Far North District study areas



3 Total Far North District

The Far North District is the northern most territorial authority District of New Zealand, consisting of the northern part of the Northland Peninsula in the North Island. It stretches from North Cape and Cape Reinga in the north, down to the Bay of Islands, Hokianga and the town of Kaikohe.

Overall BERL analysed the rates affordability for 17,446 residential properties in the Far North District.

There were a significant number of households with rates affordability issues in the Far North District. These were:

- Single superannuitant with no other income
- Married superannuitants with no other income
- Single adult with two children in receipt of Sole Parent Support households.

These households had rates in excess of five percent of gross household income across lower, median and high quartile total rates levels. For example, the average household income for a single superannuitant with no other income was $24,722, if the superannuitant was paying rates at the lower quartile ($2,113 as shown in Table 2), then Table 3 shows that 8.5 percent of their income was spent on rates. If the superannuitant was paying rates at the upper quartile ($2,985 as shown in Table 2), the superannuitant would be spending 12.1 percent of their income on rates (Table 3).

The upper quartile for single adult earning average wage, single adult with two children, earning average wage, and couple with two children, one adult earning average wage households exceed five percent of gross household income. Whereas, couple with two children, two adults earning average wage and couple with no children at home, two adults earning average wage households do not have any categories in excess of five percent of gross household income.

The highest upper quartile for total rates levels is 15.1 percent for single adult with two children in receipt of Sole Parent Support households. Not surprisingly, the lowest upper quartile is 2.3 percent for couple with no children at home, two adults earning average wages households.

The minimum rates payable in the Far North District is $141 and the maximum is $25,211. This explains the difference between the median rates value ($2,512) and the average rates value ($2,622).

As stated in section 1.7.2, to indicate rates affordability issues in each of the tables in this report it is highlighted in grey.

Far North District average household income by household composition

Household income for the following household types was used:

- Single superannuitant with no other income - $24,722
- Married superannuitants with no other income - $37,484
- Single adult earning average wage - $54,378
- Single adult with two children, in receipt of Sole Parent Support - $20,223
- Single adult with two children, earning average wage - $54,378
- Couple with two children, one adult earning average wage - $54,378

- Couple with two children, two adults earning average wage - $108,756
- Couple with no children at home, two adults earning average wage (based in Auckland) - $135,929.

Table 2 Rates payable, Far North District

	FNDC rates ($)	NRC rates ($)	Total rates ($)
Lower Quartile	1,841	272	2,113
Median	2,215	297	2,512
Upper Quartile	2,728	257	2,985

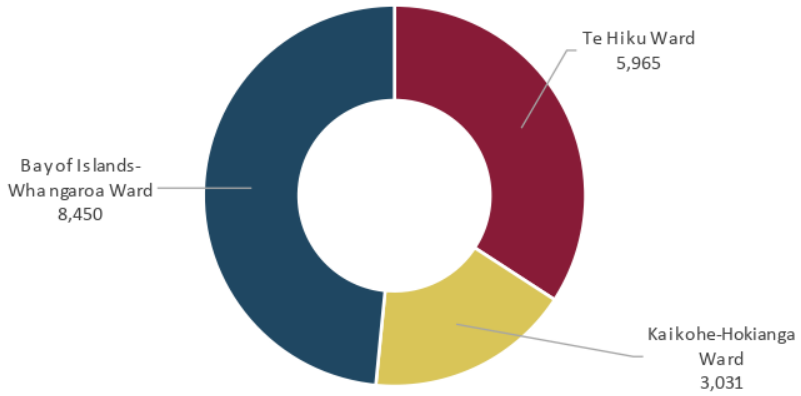
Table 3 Total rates as a percentage of gross income by household type, Far North District

Household type		FNDC rates (%)	NRC rates (%)	Total rates (%)
Single superannuitant, no other income	Lower Quartile	7.4	1.1	8.5
	Median	9.0	1.2	10.2
	Upper Quartile	11.0	1.0	12.1
Married superannuitant, no other income	Lower Quartile	4.9	0.7	5.6
	Median	5.9	0.8	6.7
	Upper Quartile	7.3	0.7	8.0
Single working person (no kids)	Lower Quartile	3.4	0.5	3.9
	Median	4.1	0.5	4.6
	Upper Quartile	5.0	0.5	5.5
Single adult, two children, on benefit	Lower Quartile	9.1	1.3	10.4
	Median	11.0	1.5	12.4
	Upper Quartile	13.5	1.3	14.8
Single adult, two children, employed	Lower Quartile	3.4	0.5	3.9
	Median	4.1	0.5	4.6
	Upper Quartile	5.0	0.5	5.5
Couple, two children, one employed	Lower Quartile	3.4	0.5	3.9
	Median	4.1	0.5	4.6
	Upper Quartile	5.0	0.5	5.5
Couple, two children, both employed	Lower Quartile	1.7	0.3	1.9
	Median	2.0	0.3	2.3
	Upper Quartile	2.5	0.2	2.7
Two working adults, based in Auckland	Lower Quartile	1.4	0.2	1.6
	Median	1.6	0.2	1.8
	Upper Quartile	2.0	0.2	2.2

4 Ratepayer and household counts

As noted in section 3, BERL analysed the rates affordability for 17,446 residential properties in the Far North District. Figure 2 below provides a breakdown of that overall number by ward. As shown in the table the largest share of ratepayer properties were located in the Bay of Islands-Whangaroa Ward (48 percent), followed by Te Hiku Ward (34 percent), and finally with the smallest share of properties is the Kaikohe-Hokianga Ward (17 percent).

Figure 2 Ratepayer count by ward, 2018



In order to provide household counts for each of the eight household types examined in this report, BERL provided an estimate of the number of households per household type.

In 2018, the Far North District had a usual resident population of 65,250, living in 22,773 households, or around 2.9 people per household. As shown in Table 4 the seven usual resident household types examined in this report comprise 8,433 households or 37 percent of total households. The largest individual household types are married superannuitants with 3,060 households, followed by single superannuitants with 2,544.

It should be noted that the 14,085 remaining households cover a wide range of household types, including superannuitant still working; single adults with one child, or three or more; couples with no children, one child, or three or more; and single adults flatting with others. Lastly, the 763 households of two working adults, based in Auckland are not included in the total household counts for the Far North District. This is because these households are usually resident in Auckland, not the Far North District.

Table 4 Household counts by household type, Far North District, 2018

Household type	Household count	Percentage of total
Single superannuitant, no other income	2,471	10.9
Married superannuitant, no other income	2,961	13.0
Single working person (no kids)	1,504	6.6
Single adult, two children, on benefit	409	1.8
Single adult, two children, employed	102	0.4
Couple, two children, one employed	749	3.3
Couple, two children, both employed	1,123	4.9
Remaining households	13,442	59.1
Total occupied households	22,761	100.0
Two working adults, based in Auckland	763	

Table 5 Household counts by household type, Far North District, 2013 and 2018

Household type	Household count 2013	Household count 2018	Percentage change
Single superannuitant, no other income	2,302	2,471	7.3
Married superannuitant, no other income	2,731	2,961	8.4
Single working person (no kids)	1,408	1,504	6.8
Single adult, two children, on benefit	384	409	6.5
Single adult, two children, employed	96	102	6.5
Couple, two children, one employed	695	749	7.7
Couple, two children, both employed	1,043	1,123	7.7
Remaining households	13,987	13,442	-3.9
Total occupied households	22,646	22,761	0.5
Two working adults, based in Auckland	1,178	763	-35.2

5 Conclusion

The data analysis of rates affordability in the Far North District highlighted that particular household types will have rates affordability issues and that these households predominantly have low or fixed incomes.

The following households had rates in excess of five percent of gross household income across lower, median and high quartile total rates levels in each of the areas:

- Single superannuitant with no other income
- Married superannuitant with no other income
- Single adult with two children, in receipt of Sole Parent Support.

As affordability issues are likely to arise when rates exceed five percent, these households likely face rates affordability issues.

There were many other pockets of rates affordability issues across the areas and the household types, these household types were usually:

- Single adult earning average wage
- Single adult with two children, earning average wage
- Couple with two children, one adult earning average wage.

Whereas the following households did not have rates affordability issues in any of the areas:

- Couple with two children, two adults earning average wage
- Couple with no children at home, two adults earning average wage (based in Auckland).

6 Impact of COVID-19

The sudden onset of the COVID-19 pandemic will have had a profound effect on the Far North District economy, as well as across New Zealand. Unfortunately there is a significant lag time before this can be seen in the official statistics. However, we expect economic activity to slow over the next few years, followed in all probability by a sluggish recovery to 2030. In the short term, the Far North District economy will have falling GDP and rising unemployment, which will result in a decrease in household income and consumer spending. This will have a significant impact upon wellbeing and the community. The ongoing effects on jobs, income and wellbeing will persist for years to come.

COVID-19 has, and will continue to, impact upon the role of central and local government. As household and businesses' spending decreases, it will be left for government to underpin spending and provide confidence in future plans. Continued spending and a focus on the four wellbeings (social, economic, environmental, and cultural) will improve outcomes for people and communities. The impact of COVID-19 has caused local authorities across the country to reassess their long term planning assumptions and documents in an environment of extreme uncertainty. As COVID-19 increases uncertainty, it is paramount that the wellbeing kaupapa remains unchanged.

The social services sector is the largest employer in the Far North District; people employed in the social services sector will be largely insulated against the impact of COVID-19. The primary sector is also a large employer. The primary sector has been deemed essential services, enabling these businesses to continue to operate throughout the COVID-19 lockdown. It is likely that people employed in the primary sector will also be reasonably insulated against the impact of COVID-19.

However, the retail and accommodation sector is likely to face severe challenges in the coming years which may result in increasing unemployment. As the retail and accommodation sector is another large employer in the Far North District, this will cause a significant loss in terms of jobs, income and ultimately negatively impact upon wellbeing. The tourism industry is already feeling the weight of COVID-19 through a drastic drop in revenue. The wage subsidy has helped save jobs in the short-term. However, this is a short-term solution and uncertainty remains about the long-term future of these jobs.

The impact on employment and income may affect people's ability to pay rates. We are aware of pressures across many councils to hold rates increases. We must advise that this kicking the can down the road is likely to jeopardise the delivery of future services. This will act directly against the kaupapa of ensuring the wellbeing (across all four dimensions) of current and future generations. We understand the need to put a realistic Long Term Plan (LTP) together, but the use of deferred payment schemes (rather than zero rates increases) should be explored. Similarly, the use of debt funding should be explored (as should a revision of the debt-ceiling constraint) – given the likelihood of incredibly low interest rates for the foreseeable future. Further, alternative funding mechanisms from central government should be actively pursued (together with LGNZ). Conversely, an untowardly narrow perspective on protecting Council finances will be reflected in deficits across other wellbeing domains – as has been experienced in recent years.

Appendix A Household counts by ward

Table 6 provides the estimated household counts for the Te Hiku, Kaikohe-Hokianaga, and the Bay of Islands-Whangaroa wards, respectively. As shown in the table the Bay of Islands-Whangaroa Ward has the largest number of households with 10,746, with the Te Hiku Ward having the second largest number of households with 7,089, while the Kaikohe-Hokianaga Ward has 4,938 households.

Table 6 Household counts by household type, wards, 2018

Household type	Te Hiku Ward	Kaikohe-Hokianga Ward	Bay of Islands-Whangaroa Ward
Single superannuitant, no other income	744	528	1,199
Married superannuitant, no other income	793	557	1,611
Single working person (no kids)	437	376	691
Single adult, two children, on benefit	118	111	179
Single adult, two children, employed	30	28	45
Couple, two children, one employed	196	172	381
Couple, two children, both employed	293	259	571
Remaining households	4,418	4,190	6,222
Total occupied households	7,029	6,221	10,899
Two working adults, based in Auckland	182	140	442

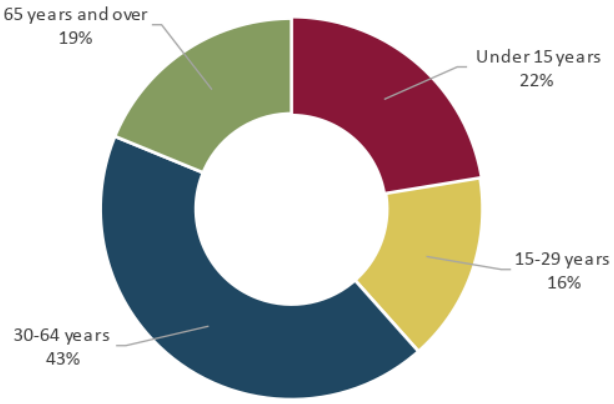
Table 7 Percentage share of households by household type, wards, 2018

Household type	Te Hiku Ward	Kaikohe-Hokianga Ward	Bay of Islands-Whangaroa Ward
Single superannuitant, no other income	10.6	8.5	11.0
Married superannuitant, no other income	11.3	9.0	14.8
Single working person (no kids)	6.2	6.0	6.3
Single adult, two children, on benefit	1.7	1.8	1.6
Single adult, two children, employed	0.4	0.4	0.4
Couple, two children, one employed	2.8	2.8	3.5
Couple, two children, both employed	4.2	4.2	5.2
Remaining households	62.9	67.4	57.1
Total occupied households	100.0	100.0	100.0
Two working adults, based in Auckland			

Appendix B Te Hiku Ward

Te Hiku Ward is the ward at the top of the Far North District as shown in Figure 1. For our analysis, we have examined 5,965 residential properties. The largest proportion of these residential properties by age group were those aged between 30 and 64 years (43 percent).

Figure 3 Percentage by broad age groups, Te Hiku Ward, 2018



Again, the following households face rates affordability issues as these households had rates in excess of five percent of gross household income across lower, median and high quartile total rates levels:

- Single superannuitant with no other income
- Married superannuitant with no other income
- Single adult with two children, earning average wage.

The upper quartile is 5.3 percent for single adult earning average wage, single adult with two children, earning average wage, and couple with two children, one adult earning average wage households. Therefore, these groups may face rates affordability issues also.

For example, the average household income for a single adult with two children, in receipt of Sole Parent Support was $24,722. As the average rates cost was $2,588 (Table 8), this would be 12.8 percent of their income (Table 9).

There were no significant outliers (minimum is $197 and maximum is $7,870) and therefore a small variance between the median ($2,588) and the average ($2,524).

Te Hiku Ward average household income by household composition

Household income for the following household types was used:

- Single superannuitant with no other income - $24,722
- Married superannuitants with no other income - $37,484
- Single adult earning average wage - $52,213

- Single adult with two children, in receipt of Sole Parent Support - $20,223
- Single adult with two children, earning average wage - $52,213
- Couple with two children, one adult earning average wage - $52,213
- Couple with two children, two adults earning average wage - $104,425
- Couple with no children at home, two adults earning average wage (based in Auckland) - $135,929.

Table 8 Rates payable, Te Hiku Ward

	FNDC rates ($)	NRC rates ($)	Total rates ($)
Lower Quartile	2,095	218	2,313
Median	2,334	254	2,588
Upper Quartile	2,502	260	2,762

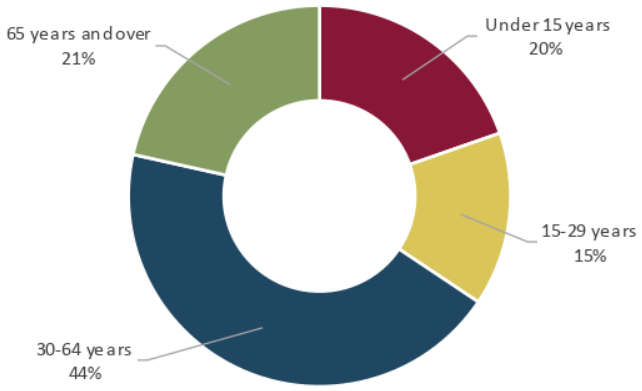
Table 9 Total rates as a percentage of gross income by household type, Te Hiku Ward

Household type		FNDC rates (%)	NRC rates (%)	Total rates (%)
Single superannuitant, no other income	Lower Quartile	8.5	0.9	9.4
	Median	9.4	1.0	10.5
	Upper Quartile	10.1	1.1	11.2
Married superannuitant, no other income	Lower Quartile	5.6	0.6	6.2
	Median	6.2	0.7	6.9
	Upper Quartile	6.7	0.7	7.4
Single working person (no kids)	Lower Quartile	4.0	0.4	4.4
	Median	4.5	0.5	5.0
	Upper Quartile	4.8	0.5	5.3
Single adult, two children, on benefit	Lower Quartile	10.4	1.1	11.4
	Median	11.5	1.3	12.8
	Upper Quartile	12.4	1.3	13.7
Single adult, two children, employed	Lower Quartile	4.0	0.4	4.4
	Median	4.5	0.5	5.0
	Upper Quartile	4.8	0.5	5.3
Couple, two children, one employed	Lower Quartile	4.0	0.4	4.4
	Median	4.5	0.5	5.0
	Upper Quartile	4.8	0.5	5.3
Couple, two children, both employed	Lower Quartile	2.0	0.2	2.2
	Median	2.2	0.2	2.5
	Upper Quartile	2.4	0.2	2.6
Two working adults, based in Auckland	Lower Quartile	1.5	0.2	1.7
	Median	1.7	0.2	1.9
	Upper Quartile	1.8	0.2	2.0

Appendix C Bay of Islands-Whangaroa Ward

Bay of Islands-Whangaroa Ward is the eastern ward of the Far North District. For our analysis, we have examined 8,450 residential properties. Again, those aged between 30 and 64 years old make up the biggest percentage of these residential properties.

Figure 4 Percentage by broad age groups, Bay of Island-Whangaroa Ward, 2018



Households that fall under the following categories face rates affordability issues:

- Single superannuitant with no other income
- Married superannuitant with no other income
- Single adult with two children, in receipt of Sole Parent Support.

These households had rates in excess of five percent of gross household income across lower, median and high quartile total rates levels.

The highest upper quartile percentage was 15.8 percent for single adults with two children, in receipt of Sole Parent Support. This means that they are paying 15.8 percent of their income ($20,223) on rates at the upper quartile ($3,205 in Table 10).

The maximum rates payable was $25,211, while the minimum is $355. Therefore, there was some variance between the median ($2,673) and the average ($2,815).

Bay of Islands-Whangaroa Ward average household income by household composition

Household income for the following household types was used:

- Single superannuitant with no other income - $24,722
- Married superannuitants with no other income - $37,484
- Single adult earning average wage - $59,897
- Single adult with two children, in receipt of Sole Parent Support - $20,223

- Single adult with two children, earning average wage - $59,897
- Couple with two children, one adult earning average wage - $59,897
- Couple with two children, two adults earning average wage - $119,793
- Couple with no children at home, two adults earning average wage (based in Auckland) - $135,929.

Table 10 Rates payable, Bay of Islands-Whangaroa Ward

	FNDC rates ($)	NRC rates ($)	Total rates ($)
Lower Quartile	1,898	276	2,174
Median	2,437	236	2,673
Upper Quartile	2,937	267	3,205

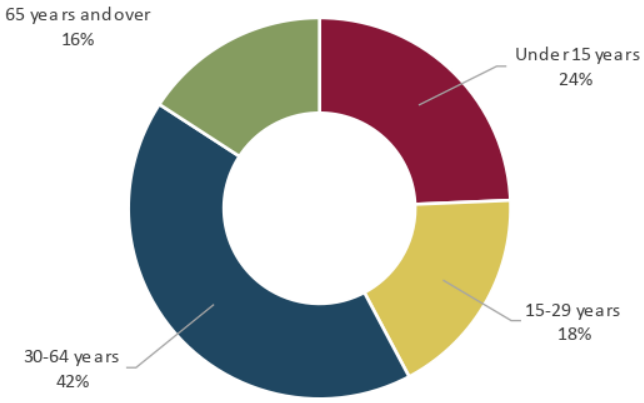
Table 11 Total rates as a percentage of gross income by household type, Bay of Islands-Whangaroa Ward

Household type		FNDC rates (%)	NRC rates (%)	Total rates (%)
Single superannuitant, no other income	Lower Quartile	7.7	1.1	8.8
	Median	9.9	1.0	10.8
	Upper Quartile	11.9	1.1	13.0
Married superannuitant, no other income	Lower Quartile	5.1	0.7	5.8
	Median	6.5	0.6	7.1
	Upper Quartile	7.8	0.7	8.5
Single working person (no kids)	Lower Quartile	3.2	0.5	3.6
	Median	4.1	0.4	4.5
	Upper Quartile	4.9	0.4	5.4
Single adult, two children, on benefit	Lower Quartile	9.4	1.4	10.8
	Median	12.0	1.2	13.2
	Upper Quartile	14.5	1.3	15.8
Single adult, two children, employed	Lower Quartile	3.2	0.5	3.6
	Median	4.1	0.4	4.5
	Upper Quartile	4.9	0.4	5.4
Couple, two children, one employed	Lower Quartile	3.2	0.5	3.6
	Median	4.1	0.4	4.5
	Upper Quartile	4.9	0.4	5.4
Couple, two children, both employed	Lower Quartile	1.6	0.2	1.8
	Median	2.0	0.2	2.2
	Upper Quartile	2.5	0.2	2.7
Two working adults, based in Auckland	Lower Quartile	1.4	0.2	1.6
	Median	1.8	0.2	2.0
	Upper Quartile	2.2	0.2	2.4

Appendix D Kaikohe-Hokianga Ward

Kaikohe-Hokianga Ward is the western ward of the Far North District. For our analysis, we have examined 3,031 residential properties. Of these residential properties, 16 percent are aged 65 years and over, 42 percent are aged between 30 and 64 years, 18 percent between 15 and 29 years, and 24 percent under 15 years.

Figure 5 Percentage by broad age groups, Kaikohe-Hokianga Ward, 2018



Even though there were less rates affordability issues in this ward, single superannuitant with no other income and single adult with two children, in receipt of Sole Parent Support households still had rates in excess of five percent of gross household income across lower, median and high quartile total rates levels.

Married superannuitant with no other income; single working person (no kids); single adult employed with two children; and couple with one employed and two children households did not have rates in excess of five percent of gross household income in the lower quartile. However their median and upper quartile still exceeded five percent. For example, the average household income for married superannuitants with no other income is $37,484. If they are paying median rates of $2,434 (Table 12), then they are spending 6.5 percent of their income on rates (Table 13).

In Kaikohe-Hokianga the average ($2,275) was below the median ($2,434). The minimum was $141 and the maximum is $8,991.

Kaikohe-Hokianga Ward average household income by household composition

Household income for the following household types was used:

- Single superannuitant with no other income - $24,722
- Married superannuitants with no other income - $37,484
- Single adult earning average wage - $46,585
- Single adult with two children, in receipt of Sole Parent Support - $20,223
- Single adult with two children, earning average wage - $46,585

- Couple with two children, one adult earning average wage - $46,585
- Couple with two children, two adults earning average wage - $93,170
- Couple with no children at home, two adults earning average wage (based in Auckland) - $135,929.

Table 12 Rates payable, Kaikohe-Hokianga Ward

	FNDC rates ($)	NRC rates ($)	Total rates ($)
Lower Quartile	1,397	241	1,638
Median	2,198	235	2,434
Upper Quartile	2,272	226	2,499

Table 13 Total rates as a percentage of gross income by household type, Kaikohe-Hokianga Ward

Household type		FNDC rates (%)	NRC rates (%)	Total rates (%)
Single superannuitant, no other income	Lower Quartile	5.7	1.0	6.6
	Median	8.9	1.0	9.8
	Upper Quartile	9.2	0.9	10.1
Married superannuitant, no other income	Lower Quartile	3.7	0.6	4.4
	Median	5.9	0.6	6.5
	Upper Quartile	6.1	0.6	6.7
Single working person (no kids)	Lower Quartile	3.0	0.5	3.5
	Median	4.7	0.5	5.2
	Upper Quartile	4.9	0.5	5.4
Single adult, two children, on benefit	Lower Quartile	6.9	1.2	8.1
	Median	10.9	1.2	12.0
	Upper Quartile	11.2	1.1	12.4
Single adult, two children, employed	Lower Quartile	3.0	0.5	3.5
	Median	4.7	0.5	5.2
	Upper Quartile	4.9	0.5	5.4
Couple, two children, one employed	Lower Quartile	3.0	0.5	3.5
	Median	4.7	0.5	5.2
	Upper Quartile	4.9	0.5	5.4
Couple, two children, both employed	Lower Quartile	1.5	0.3	1.8
	Median	2.4	0.3	2.6
	Upper Quartile	2.4	0.2	2.7
Two working adults, based in Auckland	Lower Quartile	1.0	0.2	1.2
	Median	1.6	0.2	1.8
	Upper Quartile	1.7	0.2	1.8

Appendix E Smaller areas within the Far North District

In addition to determining the rates affordability for the Far North District and its three main wards, we examined eight smaller areas within the wards which could be clearly defined within the rating unit database provided by FNDC. The eight smaller areas examined were:

- Kerikeri
- Kaikohe
- Opononi and Omapere
- Kaitaia
- Ahipara
- Paihia
- Russell
- Karikari Peninsula.

For each of the eight smaller areas, BERL examined the number of rating units owned by people living inside the District compared to the number of rating units owned by people living outside the District. For the first five areas listed above the number of units owned by people living outside the District were insufficient for analysis. Therefore, for these five areas (Kerikeri, Kaikohe, Opononi and Omapere, Kaitaia, and Ahipara) we only analysed the rating affordability of all residential properties.

For the three remaining areas (Paihia, Russell, and Karikari peninsula) there were sufficient rating units in both categories to warrant analysis. Therefore, for these three areas we examined the rating affordability of rating units split into two groups, those owned by people living in the District and those owned by people living outside the District.

Kerikeri

Kerikeri had rates affordability issues in the following categories:

- Single superannuitant with no other income
- Married superannuitant with no other income
- Single adult with two children, in receipt of Sole Parent Support.

There were also rates affordability issues for those in the upper quartile of the following categories:

- Single adult earning average wage
- Single adult with two children, earning average wage
- Couple with two children, one adult earning average wage.

Kerikeri average household income by household composition

Household income for the following household types was used:

- Single superannuitant with no other income - $24,722
- Married superannuitants with no other income - $37,484
- Single adult earning average wage - $59,102
- Single adult with two children, in receipt of Sole Parent Support - $20,223
- Single adult with two children, earning average wage - $59,102
- Couple with two children, one adult earning average wage - $59,102
- Couple with two children, two adults earning average wage - $118,205
- Couple with no children at home, two adults earning average wage (based in Auckland) - $135,929.

Table 14 Rates payable, Kerikeri

	FNDC rates ($)	NRC rates ($)	Total rates ($)
Lower Quartile	1,938	279	2,217
Median	2,190	282	2,472
Upper Quartile	2,672	316	2,988

Table 15 Total rates as a percentage of gross income by household type, Kerikeri

Household type		FNDC rates (%)	NRC rates (%)	Total rates (%)
Single superannuitant, no other income	Lower Quartile	7.8	1.1	9.0
	Median	8.9	1.1	10.0
	Upper Quartile	10.8	1.3	12.1
Married superannuitant, no other income	Lower Quartile	5.2	0.7	5.9
	Median	5.8	0.8	6.6
	Upper Quartile	7.1	0.8	8.0
Single working person (no kids)	Lower Quartile	3.3	0.5	3.8
	Median	3.7	0.5	4.2
	Upper Quartile	4.5	0.5	5.1
Single adult, two children, on benefit	Lower Quartile	9.6	1.4	10.9
	Median	10.8	1.4	12.2
	Upper Quartile	13.1	1.6	14.7
Single adult, two children, employed	Lower Quartile	3.3	0.5	3.8
	Median	3.7	0.5	4.2
	Upper Quartile	4.5	0.5	5.1
Couple, two children, one employed	Lower Quartile	3.3	0.5	3.8
	Median	3.7	0.5	4.2
	Upper Quartile	4.5	0.5	5.1
Couple, two children, both employed	Lower Quartile	1.6	0.2	1.9
	Median	1.9	0.2	2.1
	Upper Quartile	2.3	0.3	2.5
Two working adults, based in Auckland	Lower Quartile	1.4	0.2	1.6
	Median	1.6	0.2	1.8
	Upper Quartile	2.0	0.2	2.2

Kaikohe

Again, single superannuitant with no other income, married superannuitant with no other income, single adult with two children, in receipt of Sole Parent Support households had rates in excess of five percent of gross household income across lower, median and high quartile total rates levels. These households therefore face rates affordability issues. In addition for Kaikohe the single adult earning average wage, single adult with two children, earning average wage, and couple with two children, one adult earning average wage also had rates affordability issues across lower quartile, median, and upper quartile total rates levels.

Kaikohe average household income by household composition

Household income for the following household types was used:

- Single superannuitant with no other income - $24,722
- Married superannuitants with no other income - $37,484
- Single adult earning average wage - $44,894

- Single adult with two children, in receipt of Sole Parent Support - $20,223
- Single adult with two children, earning average wage - $44,894
- Couple with two children, one adult earning average wage - $44,894
- Couple with two children, two adults earning average wage - $89,788
- Couple with no children at home, two adults earning average wage (based in Auckland) - $135,929.

Table 16 Rates payable, Kaikohe

	FNDC rates ($)	NRC rates ($)	Total rates ($)
Lower Quartile	2,157	219	2,376
Median	2,226	223	2,450
Upper Quartile	2,255	225	2,480

Table 17 Total rates as a percentage of gross income by household type, Kaikohe

Household type		FNDC rates (%)	NRC rates (%)	Total rates (%)
Single superannuitant, no other income	Lower Quartile	8.7	0.9	9.6
	Median	9.0	0.9	9.9
	Upper Quartile	9.1	0.9	10.0
Married superannuitant, no other income	Lower Quartile	5.8	0.6	6.3
	Median	5.9	0.6	6.5
	Upper Quartile	6.0	0.6	6.6
Single working person (no kids)	Lower Quartile	4.8	0.5	5.3
	Median	5.0	0.5	5.5
	Upper Quartile	5.0	0.5	5.5
Single adult, two children, on benefit	Lower Quartile	10.7	1.1	11.7
	Median	11.0	1.1	12.1
	Upper Quartile	11.2	1.1	12.3
Single adult, two children, employed	Lower Quartile	4.8	0.5	5.3
	Median	5.0	0.5	5.5
	Upper Quartile	5.0	0.5	5.5
Couple, two children, one employed	Lower Quartile	4.8	0.5	5.3
	Median	5.0	0.5	5.5
	Upper Quartile	5.0	0.5	5.5
Couple, two children, both employed	Lower Quartile	2.4	0.2	2.6
	Median	2.5	0.2	2.7
	Upper Quartile	2.5	0.3	2.8
Two working adults, based in Auckland	Lower Quartile	1.6	0.2	1.7
	Median	1.6	0.2	1.8
	Upper Quartile	1.7	0.2	1.8

Opononi and Omapere

The Opononi and Omapere area had significant rates affordability issues. The following categories had rates in excess of five percent of gross household income across lower, median and high quartile total rates levels:

- Single superannuitant with no other income
- Married superannuitant with no other income
- Single adult earning average wage
- Single adult with two children, in receipt of Sole Parent Support
- Single adult with two children, earning average wage
- Couple with two children, one adult earning average wage.

There are only two categories which do not have rates affordability issues, these categories involve two adults earning average wage.

Opononi and Omapere average household income by household composition

Household income for the following household types was used:

- Single superannuitant with no other income - $24,722
- Married superannuitants with no other income - $37,484
- Single adult earning average wage - $44,094
- Single adult with two children, in receipt of Sole Parent Support - $20,223
- Single adult with two children, earning average wage - $44,094
- Couple with two children, one adult earning average wage - $44,094
- Couple with two children, two adults earning average wage - $88,189
- Couple with no children at home, two adults earning average wage (based in Auckland) - $135,929.

Table 18 Rates payable, Opononi and Omapere

	FNDC rates ($)	NRC rates ($)	Total rates ($)
Lower Quartile	2,555	259	2,814
Median	3,060	249	3,309
Upper Quartile	3,238	261	3,499

Table 19 Total rates as a percentage of gross income by household type, Opononi and Omapere

Household type		FNDC rates (%)	NRC rates (%)	Total rates (%)
Single superannuitant, no other income	Lower Quartile	10.3	1.0	11.4
	Median	12.4	1.0	13.4
	Upper Quartile	13.1	1.1	14.2
Married superannuitant, no other income	Lower Quartile	6.8	0.7	7.5
	Median	8.2	0.7	8.8
	Upper Quartile	8.6	0.7	9.3
Single working person (no kids)	Lower Quartile	5.8	0.6	6.4
	Median	6.9	0.6	7.5
	Upper Quartile	7.3	0.6	7.9
Single adult, two children, on benefit	Lower Quartile	12.6	1.3	13.9
	Median	15.1	1.2	16.4
	Upper Quartile	16.0	1.3	17.3
Single adult, two children, employed	Lower Quartile	5.8	0.6	6.4
	Median	6.9	0.6	7.5
	Upper Quartile	7.3	0.6	7.9
Couple, two children, one employed	Lower Quartile	5.8	0.6	6.4
	Median	6.9	0.6	7.5
	Upper Quartile	7.3	0.6	7.9
Couple, two children, both employed	Lower Quartile	2.9	0.3	3.2
	Median	3.5	0.3	3.8
	Upper Quartile	3.7	0.3	4.0
Two working adults, based in Auckland	Lower Quartile	1.9	0.2	2.1
	Median	2.3	0.2	2.4
	Upper Quartile	2.4	0.2	2.6

Kaitaia

Kaitaia has rates affordability issues; there were six categories with rates in excess of five percent of gross household income across lower, median and high quartile total rates levels. These categories were as follows:

- Single superannuitant with no other income
- Married superannuitant with no other income
- Single adult earning average wage
- Single adult with two children, in receipt of Sole Parent Support
- Single adult with two children, earning average wage
- Couple with two children, one adult earning average wage.

There were only two categories which did not have rates affordability issues, these categories involve two adults earning average wage.

Kaitaia average household income by household composition

Household income for the following household types was used:

- Single superannuitant with no other income - $24,722
- Married superannuitants with no other income - $37,484
- Single adult earning average wage - $46,076
- Single adult with two children, in receipt of Sole Parent Support - $20,223
- Single adult with two children, earning average wage - $46,076
- Couple with two children, one adult earning average wage - $46,076
- Couple with two children, two adults earning average wage - $92,151
- Couple with no children at home, two adults earning average wage (based in Auckland) - $135,929.

Table 20 Rates payable, Kaitaia

	FNDC rates ($)	NRC rates ($)	Total rates ($)
Lower Quartile	2,141	281	2,422
Median	2,083	545	2,628
Upper Quartile	2,152	550	2,702

Table 21 Total rates as a percentage of gross income by household type, Kaitaia

Household type		FNDC rates (%)	NRC rates (%)	Total rates (%)
Single superannuitant, no other income	Lower Quartile	8.7	1.1	9.8
	Median	8.4	2.2	10.6
	Upper Quartile	8.7	2.2	10.9
Married superannuitant, no other income	Lower Quartile	5.7	0.7	6.5
	Median	5.6	1.5	7.0
	Upper Quartile	5.7	1.5	7.2
Single working person (no kids)	Lower Quartile	4.6	0.6	5.3
	Median	4.5	1.2	5.7
	Upper Quartile	4.7	1.2	5.9
Single adult, two children, on benefit	Lower Quartile	10.6	1.4	12.0
	Median	10.3	2.7	13.0
	Upper Quartile	10.6	2.7	13.4
Single adult, two children, employed	Lower Quartile	4.6	0.6	5.3
	Median	4.5	1.2	5.7
	Upper Quartile	4.7	1.2	5.9
Couple, two children, one employed	Lower Quartile	4.6	0.6	5.3
	Median	4.5	1.2	5.7
	Upper Quartile	4.7	1.2	5.9
Couple, two children, both employed	Lower Quartile	2.3	0.3	2.6
	Median	2.3	0.6	2.9
	Upper Quartile	2.3	0.6	2.9
Two working adults, based in Auckland	Lower Quartile	1.6	0.2	1.8
	Median	1.5	0.4	1.9
	Upper Quartile	1.6	0.4	2.0

Ahipara

Ahipara has one of the widest ranges in terms of rates affordability, with a range of between 1.8–16.1 percent. Single adult with two children, in receipt of Sole Parent Support had the highest upper quartile of 16.1 percent, while two working adults based in Auckland had the lowest upper quartile of 2.4 percent.

Again, single superannuitant with no other income, married superannuitant with no other income, and single adult with two children, in receipt of Sole Parent Support households had rates affordability issues. Each of these categories had rates in excess of five percent of gross household income across lower, median and high quartile total rates levels.

Ahipara average household income by household composition

Household income for the following household types was used:

- Single superannuitant with no other income - $24,722
- Married superannuitants with no other income - $37,484
- Single adult earning average wage - $57,938
- Single adult with two children, in receipt of Sole Parent Support - $20,223
- Single adult with two children, earning average wage - $57,938
- Couple with two children, one adult earning average wage - $57,938
- Couple with two children, two adults earning average wage - $115,877
- Couple with no children at home, two adults earning average wage (based in Auckland) - $135,929.

Table 22 Rates payable, Ahipara

	FNDC rates ($)	NRC rates ($)	Total rates ($)
Lower Quartile	2,162	240	2,402
Median	2,392	255	2,647
Upper Quartile	2,962	293	3,255

Table 23 Total rates as a percentage of gross income by household type, Ahipara

Household type		FNDC rates (%)	NRC rates (%)	Total rates (%)
Single superannuitant, no other income	Lower Quartile	8.7	1.0	9.7
	Median	9.7	1.0	10.7
	Upper Quartile	12.0	1.2	13.2
Married superannuitant, no other income	Lower Quartile	5.8	0.6	6.4
	Median	6.4	0.7	7.1
	Upper Quartile	7.9	0.8	8.7
Single working person (no kids)	Lower Quartile	3.7	0.4	4.1
	Median	4.1	0.4	4.6
	Upper Quartile	5.1	0.5	5.6
Single adult, two children, on benefit	Lower Quartile	10.7	1.2	11.9
	Median	11.8	1.3	13.1
	Upper Quartile	14.6	1.4	16.1
Single adult, two children, employed	Lower Quartile	3.7	0.4	4.1
	Median	4.1	0.4	4.6
	Upper Quartile	5.1	0.5	5.6
Couple, two children, one employed	Lower Quartile	3.7	0.4	4.1
	Median	4.1	0.4	4.6
	Upper Quartile	5.1	0.5	5.6
Couple, two children, both employed	Lower Quartile	1.9	0.2	2.1
	Median	2.1	0.2	2.3
	Upper Quartile	2.6	0.3	2.8
Two working adults, based in Auckland	Lower Quartile	1.6	0.2	1.8
	Median	1.8	0.2	1.9
	Upper Quartile	2.2	0.2	2.4

Russell

Across the categories and levels those who live outside Russell tend to have greater rates affordability issues. The highest upper quartile was for single adult with two children, in receipt of Sole Parent Support from outside Russell (23.2 percent).

The following categories have rates affordability issues across the lower quartile, median and upper quartile:

- Single superannuitant with no other income, both resident owners and non-resident owners
- Married superannuitant with no other income, both resident owners and non-resident owners
- Single adult with two children, in receipt of Sole Parent Support, both resident owners and non-resident owners.

The following categories have rates affordability issues in the median and upper quartile categories, but not the lower quartile:

- Single adult earning average wage, both resident owners and non-resident owners
- Single adult with two children, earning average wage, both resident owners and non-resident owners
- Couple with two children, one adult earning average wage, both resident owners and non-resident owners.

Russell average household income by household composition

Household income for the following household types was used:

- Single superannuitant with no other income - $24,722
- Married superannuitants with no other income - $37,484
- Single adult earning average wage - $62,591
- Single adult with two children, in receipt of Sole Parent Support - $20,223
- Single adult with two children, earning average wage - $62,591
- Couple with two children, one adult earning average wage - $62,591
- Couple with two children, two adults earning average wage - $125,182
- Couple with no children at home, two adults earning average wage (based in Auckland) - $135,929.

Table 24 Rates payable, Russell

		FNDC rates ($)	NRC rates ($)	Total rates ($)
Resident owners	Lower Quartile	1,996	280	2,276
	Median	3,101	282	3,382
	Upper Quartile	3,848	332	4,180
Non-resident owners	Lower Quartile	2,721	256	2,977
	Median	3,589	314	3,904
	Upper Quartile	4,337	364	4,702

Table 25 Total rates as a percentage of gross income by household type, resident owners, Russell

Household type		FNDC rates (%)	NRC rates (%)	Total rates (%)
Single superannuitant, no other income	Lower Quartile	8.1	1.1	9.2
	Median	12.5	1.1	13.7
	Upper Quartile	15.6	1.3	16.9
Married superannuitant, no other income	Lower Quartile	5.3	0.7	6.1
	Median	8.3	0.8	9.0
	Upper Quartile	10.3	0.9	11.2
Single working person (no kids)	Lower Quartile	3.2	0.4	3.6
	Median	5.0	0.5	5.4
	Upper Quartile	6.1	0.5	6.7
Single adult, two children, on benefit	Lower Quartile	9.9	1.4	11.3
	Median	15.3	1.4	16.7
	Upper Quartile	19.0	1.6	20.7
Single adult, two children, employed	Lower Quartile	3.2	0.4	3.6
	Median	5.0	0.5	5.4
	Upper Quartile	6.1	0.5	6.7
Couple, two children, one employed	Lower Quartile	3.2	0.4	3.6
	Median	5.0	0.5	5.4
	Upper Quartile	6.1	0.5	6.7
Couple, two children, both employed	Lower Quartile	1.6	0.2	1.8
	Median	2.5	0.2	2.7
	Upper Quartile	3.1	0.3	3.3
Two working adults, based in Auckland	Lower Quartile	1.5	0.2	1.7
	Median	2.3	0.2	2.5
	Upper Quartile	2.8	0.2	3.1

Table 26 Total rates as a percentage of gross income by household type, non-resident owners, Russell

Household type		FNDC rates (%)	NRC rates (%)	Total rates (%)
Single superannuitant, no other income	Lower Quartile	11.0	1.0	12.0
	Median	14.5	1.3	15.8
	Upper Quartile	17.5	1.5	19.0
Married superannuitant, no other income	Lower Quartile	7.3	0.7	7.9
	Median	9.6	0.8	10.4
	Upper Quartile	11.6	1.0	12.5
Single working person (no kids)	Lower Quartile	4.3	0.4	4.8
	Median	5.7	0.5	6.2
	Upper Quartile	6.9	0.6	7.5
Single adult, two children, on benefit	Lower Quartile	13.5	1.3	14.7
	Median	17.7	1.6	19.3
	Upper Quartile	21.4	1.8	23.2
Single adult, two children, employed	Lower Quartile	4.3	0.4	4.8
	Median	5.7	0.5	6.2
	Upper Quartile	6.9	0.6	7.5
Couple, two children, one employed	Lower Quartile	4.3	0.4	4.8
	Median	5.7	0.5	6.2
	Upper Quartile	6.9	0.6	7.5
Couple, two children, both employed	Lower Quartile	2.2	0.2	2.4
	Median	2.9	0.3	3.1
	Upper Quartile	3.5	0.3	3.8
Two working adults, based in Auckland	Lower Quartile	2.0	0.2	2.2
	Median	2.6	0.2	2.9
	Upper Quartile	3.2	0.3	3.5

Paihia

Rates affordability issues were substantial in Paihia. Households, both resident owners and non-resident owners of Paihia, had rates in excess of five percent of gross household income across lower, median and high quartile total rates levels in most categories. These categories were:

- Single superannuitant with no other income
- Married superannuitant with no other income
- Single adult with two children, in receipt of Sole Parent Support
- Single adult earning average wage, outside of Paihia
- Single adult with two children, earning average wage, non-resident owners
- Couple with two children, one adult earning average wage, non-resident owners.

The following categories had rates affordability issues in the median and upper quartile categories, but not the lower quartile:

- Single adult earning average wage, resident owners
- Single adult with two children, earning average wage, resident owners
- Couple with two children, one adult earning average wage, resident owners.

Paihia average household income by household composition

Household income for the following household types was used:

- Single superannuitant with no other income - $24,722
- Married superannuitants with no other income - $37,484
- Single adult earning average wage - $58,004
- Single adult with two children, in receipt of Sole Parent Support - $20,223
- Single adult with two children, earning average wage - $58,004
- Couple with two children, one adult earning average wage - $58,004
- Couple with two children, two adults earning average wage - $116,007
- Couple with no children at home, two adults earning average wage (based in Auckland) - $135,929.

Table 27 Rates payable, Paihia

		FNDC rates ($)	NRC rates ($)	Total rates ($)
Resident owners	Lower Quartile	2,535	241	2,775
	Median	2,897	265	3,162
	Upper Quartile	3,265	289	3,554
Non-resident owners	Lower Quartile	2,724	253	2,978
	Median	3,093	278	3,370
	Upper Quartile	4,215	259	4,474

Table 28 Total rates as a percentage of gross income by household type, resident owners, Paihia

Household type		FNDC rates (%)	NRC rates (%)	Total rates (%)
Single superannuitant, no other income	Lower Quartile	10.3	1.0	11.2
	Median	11.7	1.1	12.8
	Upper Quartile	13.2	1.2	14.4
Married superannuitant, no other income	Lower Quartile	6.8	0.6	7.4
	Median	7.7	0.7	8.4
	Upper Quartile	8.7	0.8	9.5
Single working person (no kids)	Lower Quartile	4.4	0.4	4.8
	Median	5.0	0.5	5.5
	Upper Quartile	5.6	0.5	6.1
Single adult, two children, on benefit	Lower Quartile	12.5	1.2	13.7
	Median	14.3	1.3	15.6
	Upper Quartile	16.1	1.4	17.6
Single adult, two children, employed	Lower Quartile	4.4	0.4	4.8
	Median	5.0	0.5	5.5
	Upper Quartile	5.6	0.5	6.1
Couple, two children, one employed	Lower Quartile	4.4	0.4	4.8
	Median	5.0	0.5	5.5
	Upper Quartile	5.6	0.5	6.1
Couple, two children, both employed	Lower Quartile	2.2	0.2	2.4
	Median	2.5	0.2	2.7
	Upper Quartile	2.8	0.2	3.1
Two working adults, based in Auckland	Lower Quartile	1.9	0.2	2.0
	Median	2.1	0.2	2.3
	Upper Quartile	2.4	0.2	2.6

Table 29 Total rates as a percentage of gross income by household type, non-resident owners, Paihia

Household type		FNDC rates (%)	NRC rates (%)	Total rates (%)
Single superannuitant, no other income	Lower Quartile	11.0	1.0	12.0
	Median	12.5	1.1	13.6
	Upper Quartile	17.0	1.0	18.1
Married superannuitant, no other income	Lower Quartile	7.3	0.7	7.9
	Median	8.3	0.7	9.0
	Upper Quartile	11.2	0.7	11.9
Single working person (no kids)	Lower Quartile	4.7	0.4	5.1
	Median	5.3	0.5	5.8
	Upper Quartile	7.3	0.4	7.7
Single adult, two children, on benefit	Lower Quartile	13.5	1.3	14.7
	Median	15.3	1.4	16.7
	Upper Quartile	20.8	1.3	22.1
Single adult, two children, employed	Lower Quartile	4.7	0.4	5.1
	Median	5.3	0.5	5.8
	Upper Quartile	7.3	0.4	7.7
Couple, two children, one employed	Lower Quartile	4.7	0.4	5.1
	Median	5.3	0.5	5.8
	Upper Quartile	7.3	0.4	7.7
Couple, two children, both employed	Lower Quartile	2.3	0.2	2.6
	Median	2.7	0.2	2.9
	Upper Quartile	3.6	0.2	3.9
Two working adults, based in Auckland	Lower Quartile	2.0	0.2	2.2
	Median	2.3	0.2	2.5
	Upper Quartile	3.1	0.2	3.3

Karikari Peninsula

Again, both inside and outside of Karikari Peninsula, single superannuitant with no other income households, married superannuitants with no other income households, single adult with two children in receipt of Sole Parent Support households had rates in excess of five percent of gross household income across lower, median and high quartile total rates levels.

Karikari peninsula average household income by household composition

Household income for the following household types was used:

- Single superannuitant with no other income - $24,722
- Married superannuitants with no other income - $37,484
- Single adult earning average wage - $55,184
- Single adult with two children, in receipt of Sole Parent Support - $20,223

- Single adult with two children, earning average wage - $55,184
- Couple with two children, one adult earning average wage - $55,184
- Couple with two children, two adults earning average wage - $110,367
- Couple with no children at home, two adults earning average wage (based in Auckland) - $135,929.

Table 30 Rates payable, Karikari Peninsula

		FNDC rates ($)	NRC rates ($)	Total rates ($)
Resident owners	Lower Quartile	2,163	237	2,400
	Median	2,360	311	2,670
	Upper Quartile	2,738	276	3,014
Non-resident owners	Lower Quartile	2,255	244	2,498
	Median	2,502	260	2,762
	Upper Quartile	2,997	293	3,290

Table 31 Total rates as a percentage of gross income by household type, resident owners, Karikari Peninsula

Household type		FNDC rates (%)	NRC rates (%)	Total rates (%)
Single superannuitant, no other income	Lower Quartile	8.7	1.0	9.7
	Median	9.5	1.3	10.8
	Upper Quartile	11.1	1.1	12.2
Married superannuitant, no other income	Lower Quartile	5.8	0.6	6.4
	Median	6.3	0.8	7.1
	Upper Quartile	7.3	0.7	8.0
Single working person (no kids)	Lower Quartile	3.9	0.4	4.3
	Median	4.3	0.6	4.8
	Upper Quartile	5.0	0.5	5.5
Single adult, two children, on benefit	Lower Quartile	10.7	1.2	11.9
	Median	11.7	1.5	13.2
	Upper Quartile	13.5	1.4	14.9
Single adult, two children, employed	Lower Quartile	3.9	0.4	4.3
	Median	4.3	0.6	4.8
	Upper Quartile	5.0	0.5	5.5
Couple, two children, one employed	Lower Quartile	3.9	0.4	4.3
	Median	4.3	0.6	4.8
	Upper Quartile	5.0	0.5	5.5
Couple, two children, both employed	Lower Quartile	2.0	0.2	2.2
	Median	2.1	0.3	2.4
	Upper Quartile	2.5	0.3	2.7
Two working adults, based in Auckland	Lower Quartile	1.6	0.2	1.8
	Median	1.7	0.2	2.0
	Upper Quartile	2.0	0.2	2.2

Table 32 Total rates as a percentage of gross income by household type, non-resident owners, Karikari Peninsula

Household type		FNDC rates (%)	NRC rates (%)	Total rates (%)
Single superannuitant, no other income	Lower Quartile	9.1	1.0	10.1
	Median	10.1	1.1	11.2
	Upper Quartile	12.1	1.2	13.3
Married superannuitant, no other income	Lower Quartile	6.0	0.6	6.7
	Median	6.7	0.7	7.4
	Upper Quartile	8.0	0.8	8.8
Single working person (no kids)	Lower Quartile	4.1	0.4	4.5
	Median	4.5	0.5	5.0
	Upper Quartile	5.4	0.5	6.0
Single adult, two children, on benefit	Lower Quartile	11.1	1.2	12.4
	Median	12.4	1.3	13.7
	Upper Quartile	14.8	1.4	16.3
Single adult, two children, employed	Lower Quartile	4.1	0.4	4.5
	Median	4.5	0.5	5.0
	Upper Quartile	5.4	0.5	6.0
Couple, two children, one employed	Lower Quartile	4.1	0.4	4.5
	Median	4.5	0.5	5.0
	Upper Quartile	5.4	0.5	6.0
Couple, two children, both employed	Lower Quartile	2.0	0.2	2.3
	Median	2.3	0.2	2.5
	Upper Quartile	2.7	0.3	3.0
Two working adults, based in Auckland	Lower Quartile	1.7	0.2	1.8
	Median	1.8	0.2	2.0
	Upper Quartile	2.2	0.2	2.4

Appendix F Average rates assessment for all areas

Table 33 Median rates

	FNDC rates ($)	NRC rates ($)	Total rates ($)
Far North District	2,215	297	2,512
Kaikohe-Hokianga Ward	2,198	235	2,434
Te Hiku Ward	2,334	254	2,588
Bay of Islands-Whangaroa Ward	2,437	236	2,673
Kaitaia	2,083	545	2,628
Ahipara	2,392	255	2,647
Karikari peninsula	2,473	258	2,732
Kaikohe	2,226	223	2,450
Opononi-Omapere	3,060	249	3,309
Kerikeri	2,190	282	2,472
Paihia	2,949	268	3,217
Russell	3,331	297	3,628

Table 34 Median rates as a percentage of gross income for single superannuitant with no other income for each area

Single superannuitant, no other income	FNDC rates (%)	NRC rates (%)	Total rates (%)
Far North District	9.0	1.2	10.2
Kaikohe-Hokianga Ward	8.9	1.0	9.8
Te Hiku Ward	9.4	1.0	10.5
Bay of Islands-Whangaroa Ward	9.9	1.0	10.8
Kaitaia	8.4	2.2	10.6
Ahipara	9.7	1.0	10.7
Karikari peninsula	10.0	1.0	11.0
Kaikohe	9.0	0.9	9.9
Opononi-Omapere	12.4	1.0	13.4
Kerikeri	8.9	1.1	10.0
Paihia	11.9	1.1	13.0
Russell	13.5	1.2	14.7

Table 35 Median rates as a percentage of gross income for married superannuitant with no other income for each area

Married superannuitant, no other income	FNDC rates (%)	NRC rates (%)	Total rates (%)
Far North District	5.9	0.8	6.7
Kaikohe-Hokianga Ward	5.9	0.6	6.5
Te Hiku Ward	6.2	0.7	6.9
Bay of Islands-Whangaroa Ward	6.5	0.6	7.1
Kaitaia	5.6	1.5	7.0
Ahipara	6.4	0.7	7.1
Karikari peninsula	6.6	0.7	7.3
Kaikohe	5.9	0.6	6.5
Opononi-Omapere	8.2	0.7	8.8
Kerikeri	5.8	0.8	6.6
Paihia	7.9	0.7	8.6
Russell	8.9	0.8	9.7

Table 36 Median rates as a percentage of gross income for single working person with no kids for each area

Single working person (no kids)	FNDC rates (%)	NRC rates (%)	Total rates (%)
Far North District	4.1	0.5	4.6
Kaikohe-Hokianga Ward	4.7	0.5	5.2
Te Hiku Ward	4.5	0.5	5.0
Bay of Islands-Whangaroa Ward	4.1	0.4	4.5
Kaitaia	4.5	1.2	5.7
Ahipara	4.1	0.4	4.6
Karikari peninsula	4.5	0.5	4.9
Kaikohe	5.0	0.5	5.5
Opononi-Omapere	6.9	0.6	7.5
Kerikeri	3.7	0.5	4.2
Paihia	5.1	0.5	5.5
Russell	5.3	0.5	5.8

Table 37 Median rates as a percentage of gross income for single working person with no kids for each area

Single adult, two children, on benefit	FNDC rates (%)	NRC rates (%)	Total rates (%)
Far North District	11.0	1.5	12.4
Kaikohe-Hokianga Ward	10.9	1.2	12.0
Te Hiku Ward	11.5	1.3	12.8
Bay of Islands-Whangaroa Ward	12.0	1.2	13.2
Kaitaia	10.3	2.7	13.0
Ahipara	11.8	1.3	13.1
Karikari peninsula	12.2	1.3	13.5
Kaikohe	11.0	1.1	12.1
Opononi-Omapere	15.1	1.2	16.4
Kerikeri	10.8	1.4	12.2
Paihia	14.6	1.3	15.9
Russell	16.5	1.5	17.9

Table 38 Median rates as a percentage of gross income for single working person with two children for each area

Single adult, two children, employed	FNDC rates (%)	NRC rates (%)	Total rates (%)
Far North District	4.1	0.5	4.6
Kaikohe-Hokianga Ward	4.7	0.5	5.2
Te Hiku Ward	4.5	0.5	5.0
Bay of Islands-Whangaroa Ward	4.1	0.4	4.5
Kaitaia	4.5	1.2	5.7
Ahipara	4.1	0.4	4.6
Karikari peninsula	4.5	0.5	4.9
Kaikohe	5.0	0.5	5.5
Opononi-Omapere	6.9	0.6	7.5
Kerikeri	3.7	0.5	4.2
Paihia	5.1	0.5	5.5
Russell	5.3	0.5	5.8

Table 39 Median rates as a percentage of gross income for a couple with two children and one adult worker for each area

Couple, two children, one employed	FNDC rates (%)	NRC rates (%)	Total rates (%)
Far North District	4.1	0.5	4.6
Kaikohe-Hokianga Ward	4.7	0.5	5.2
Te Hiku Ward	4.5	0.5	5.0
Bay of Islands-Whangaroa Ward	4.1	0.4	4.5
Kaitaia	4.5	1.2	5.7
Ahipara	4.1	0.4	4.6
Karikari peninsula	4.5	0.5	4.9
Kaikohe	5.0	0.5	5.5
Opononi-Omapere	6.9	0.6	7.5
Kerikeri	3.7	0.5	4.2
Paihia	5.1	0.5	5.5
Russell	5.3	0.5	5.8

Table 40 Median rates as a percentage of gross income for a couple, with two children who are employed for each area

Couple, two children, both employed	FNDC rates (%)	NRC rates (%)	Total rates (%)
Far North District	2.0	0.3	2.3
Kaikohe-Hokianga Ward	2.4	0.3	2.6
Te Hiku Ward	2.2	0.2	2.5
Bay of Islands-Whangaroa Ward	2.0	0.2	2.2
Kaitaia	2.3	0.6	2.9
Ahipara	2.1	0.2	2.3
Karikari peninsula	2.2	0.2	2.5
Kaikohe	2.5	0.2	2.7
Opononi-Omapere	3.5	0.3	3.8
Kerikeri	1.9	0.2	2.1
Paihia	2.5	0.2	2.8
Russell	2.7	0.2	2.9

Table 41 Median rates as a percentage of gross income for two working adults with no kids, based in Auckland for each area

Two working adults, based in Auckland	FNDC rates (%)	NRC rates (%)	Total rates (%)
Far North District	1.6	0.2	1.8
Kaikohe-Hokianga Ward	1.6	0.2	1.8
Te Hiku Ward	1.7	0.2	1.9
Bay of Islands-Whangaroa Ward	1.8	0.2	2.0
Kaitaia	1.5	0.4	1.9
Ahipara	1.8	0.2	1.9
Karikari peninsula	1.8	0.2	2.0
Kaikohe	1.6	0.2	1.8
Opononi-Omapere	2.3	0.2	2.4
Kerikeri	1.6	0.2	1.8
Paihia	2.2	0.2	2.4
Russell	2.5	0.2	2.7

Sensitivity: General

21 Pitt Street,
PO Box 6345, Auckland,
1141, New Zealand
T: +64 9 300 9000 // **F:** +64 9 300 9300
E: info@beca.com // www.beca.com

Far North District Council
Memorial Avenue
Kaikohe

17 September 2021

Attention: Ben Bowden

Dear Ben,

Kaeo WWTP treated wastewater disposal to land

Far North District Council (FNDC) prepared the Kaeo Land Disposal GIS Mapping report[1] in August 2021. This report identified several potential sites for land discharge of treated wastewater from the Kaeo Wastewater Treatment Plant (Kaeo WWTP). However, the report did not include cost estimates for wastewater pumping, storing and irrigation to land. Beca was engaged to provide this cost estimate.

After initial discussions it was noticed that none of the original sites identified would be large enough for wastewater irrigation. A workshop was held with FNDC to identify other suitable sites after which a Site Information report[2] was provided by FNDC defining a new potential site for wastewater discharge for costing purposes. Further work will be required to confirm the preferred site and site suitability for discharge of wastewater.

The purpose of this letter is to provide a high level cost estimate to support planning of wastewater discharge for Kaeo to this new potential site.

Scope of Works

The scope of works includes a high level engineering design which is required to develop a high level capital cost estimate for the identified site for treated wastewater discharge to the land. The following scope is covered in this letter:

- High-level design of the pump station and conveyance to the land discharge site, provided by FNDC
- High-level consideration of potential storage
- High-level consideration of discharge system (assumed surface spray irrigation)
- Class 5 (-30% to +50% accuracy) cost estimates

[1] Kaeo Land Disposal GIS Mapping report file name 'Option 1 Kaeo DtL Sites information – GIS mapping.docx', by FNDC, August 2021
[2] Kaeo Land Disposal GIS Mapping report file name 'Kaeo Land Disposal – Site Information.docx', by FNDC, August 2021

Sensitivity: General

1.1 Pump Station design and Conveyance to Preferred sites

A high level pump station design was undertaken, and the pipeline route identified to deliver treated wastewater to the potential site. The pump station and pipeline design assumed the following:

- The pump station will be located at Kaeo WWTP site for the ease of tie-in works, the centreline of the pump is assumed to be 5m above sea level +/- 1m.
- Adopted pumping design flow 12 L/s. This will provide the following approximate pumping time per day:
  - 3 hr based on average flow of 195 m^3/d (projection[3] for year 2043)
  - 24 hrs based on maximum flow of 1000 m^3/d
- Treated wastewater storage will be provided at the land discharge site.
- Treated wastewater quality will be sufficient for the pumping purpose to avoid biofilm forming in the pipeline.
- Discharge of pipeline assumed to be a potential storage location within proposed irrigation site boundaries on a relatively flat area (contour line 40 m).

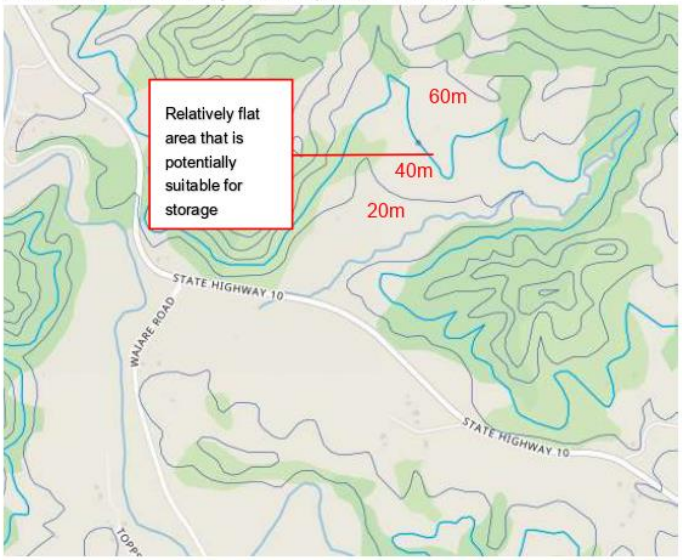


Figure 1: Potential storage location

Therefore, a total pumping head of 125m is calculated through the system assuming minor pipe losses based upon the proposed pipe route.

- Pipework to be constant diameter throughout the proposed route.
- Estimated size of PE pipeline (PN16) is OD125 at a target velocity of 1.5 m/s.

[3] Kaeo Land Disposal Calculations, excel spreadsheet, provided by FNDC

Sensitivity: General

- Pipeline will be buried along the road (except for crossing the Kaeo river where we assume it can be fixed to the existing bridge structure) in a road corridor and will enter the site via council owned land.
- Assumed no clashes with existing utility services (e.g. electricity, telecommunications) and road structures.

The indicative 4.7km pipeline route is presented below.



Figure 2 Indicative pipeline route

1.1.1 Site

The land disposal area which could be suitable for irrigation, determined by FNDC for the site is presented below.

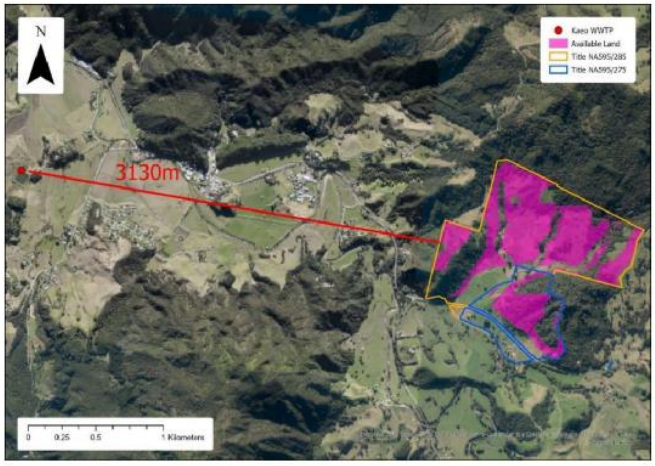


Figure 3 Potential disposal to land

It is understood that the available disposal area covers 2 titles (NA595/285 and NZ595/275) across 7 parcels of land. More specific information regarding each title is given below:

Sensitivity: General

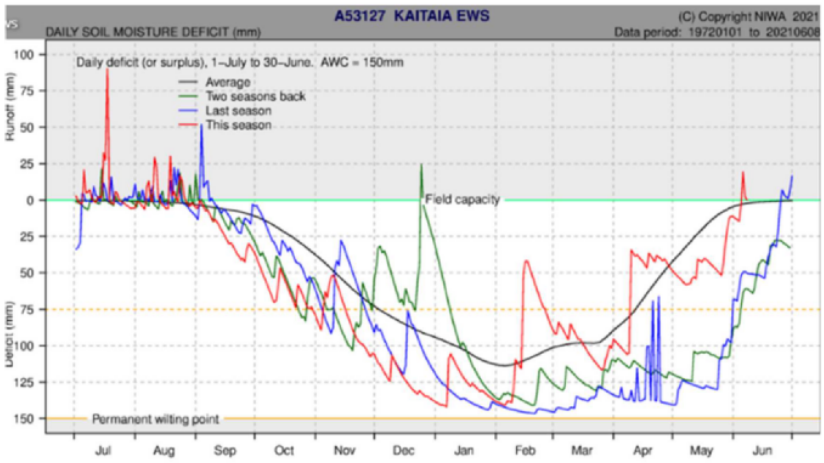
- NA595/285 - Contains 54.6 Ha of available land. With a 25 m buffer from the title boundary the available area is reduced to 50.1 Ha. Areas with high slopes and with high flooding risk have been excluded.
- NA595/275 - Contains 12.4 Ha of available land. With a 25 m buffer from the title boundary the available area is reduced to 11.0 Ha. Areas with high slopes, high flooding risk and those with roading designation have been excluded.

1.2 Irrigation and Storage

A high level assessment of required treated wastewater storage and irrigation area was undertaken to provide indicative sizing information for the cost estimate. The storage and irrigation system assumed the following:

- The storage for treated wastewater will be at the discharge point of the pipeline from the pump station and is assumed to be an open pond with a clay liner and standard slopes of 1:3.

  The pond size is based on 3 month storage of average daily flow in 2043. This assumption is based on typical soil moisture deficit in Kaitaia (see Figure below, obtained from Northland Regional Council website, NIWA data). During the months of July and August there are typically extended periods of no soil moisture deficit (i.e. soil is saturated) and therefore low volumes of treated wastewater are expected to be discharged to land during this period. At other times of the year, the storage pond is required to buffer out peak treated wastewater flows.



- It is assumed that a dry mounted pump will be installed on the bank of the pond to transfer treated wastewater from the storage pond to the irrigation system. The pump is assumed to be in-housed in a standard shed together with controls for the pump itself and irrigation system.
- Due to the relatively steep slopes on the site and assumed future site management requirements we assumed that a cut and carry operation is not feasible, therefore we have assumed that the cover will be native trees, pines or similar. Fixed Spray irrigation is assumed to be installed.
- The land requirement for irrigation was determined by applying a simple modelling tool using daily flows, rain data, hydraulic application rate of 3 mm/day and effluent storage of 17,800 m^3.
- A 50% factor was applied to total land area required to be purchased to account for buffer zones around drains/streams and the boundary.

Sensitivity: General

1.2.1 Storage

An estimated storage pond volume required to accommodate 3 months treated wastewater storage is 17,800 m^3 based on the average flow future (2043) of 195 m^3/d. The approximate internal dimensions of the pond are 75m x 80m with an effective water level of 3m (total depth 3.5 m). An indicative location for the storage pond is presented below:

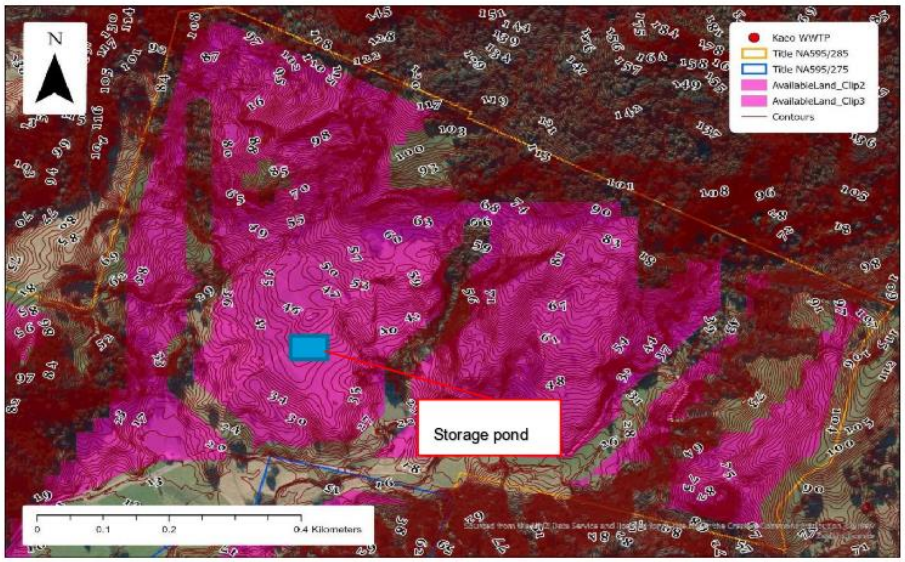


Figure 5 Indicative storage pond location

1.2.2 Irrigation system

High level modelling was applied to determine land irrigation area and therefore the size of the irrigation system. The model used flow data provided by FNDC for the period January 2017 – December 2020. Some of the data provided by FNDC for this period had some gaps, especially the winter months of 2019. Due to the missing data the 2019 year was excluded from our analysis. The outflow data for all years also appeared unreliable with many zero outflow days present. Our analysis approximated effluent outflow data using wastewater inflow which appeared more reliable.

Sensitivity: General

The estimated irrigation area required for treated wastewater discharge is summarised in Table 1 below.

Table 1 Irrigation area requirements for treated effluent disposal in 2025 and 2055

	Flow m^3/d	3 month storage m^3	Rounded m^3	Hydraulic loading rate mm/d	Irrigation area (no buffer) ha	Land required (with buffer) ha	Nitrogen loading kgN/ha/year[4]
2026	171	15,636	15,600	3	16.0	24.0	102
2043	195	17,803	17,800	3	18.1	27.2	103

A minimum area of 18.1 ha is required to dispose treated wastewater to the land in the future. The area size accounts for the down time when irrigation will not be possible due to weather conditions. It is assumed that minimal irrigation will occur in July and August, where treated wastewater will be stored in the pond. No irrigation will occur if the rainfall will be greater than 3 mm/d. To catch up with the irrigation for the down time period, without exceeding the hydraulic application rate of 3 mm, more land is required in comparison to the catch-up irrigation method where an increasing hydraulic rate could be applied.

The minimum land area of 18.1 ha is required for irrigation itself, however a buffer of 50% should be applied to account for the buffer areas to a property boundary. As indicated in the table above approximately 27.2 ha of land will be required including buffer area. The buffer area could also include the area required for pond storage (1.8 ha). Further technical work on soil suitability, pond storage location, irrigation system layout and application rates is recommended before purchasing the land.

We understand that 61.1 ha of land is available for irrigation. Given that 27.2 ha of land is required for treated wastewater disposal in the future there is sufficient land available.

1.3 Capital cost estimate

At this early concept stage, the estimated construction costs have an accuracy range of -30% to + 50%.

Costs ($NZD) are summarised in table below. See Appendix A for a more detailed breakdown of the costs.

Table 2 Estimated Construction Cost (-30% to + 50%) for Disposal Site

Cost Item	Cost estimate ($)
Pump station and pressure pipeline	1,561,000
Effluent Storage Pond	1,686,000
Irrigation system	1,116,000
Electrical and controls	96,000
Planning	150,000
Professional fees, Council internal costs and contingency	1,608,000
Total	**6,218,000**
Range	**4.4 Mil to 9.3 Mil**

The above costs are based on current costs as of September 2021, exclude GST and do not include for escalation or risks associated with COVID delays and/or disruptions.

[4] Based on an assumed continuation of existing treated wastewater quality being discharged from the WWTP.

Sensitivity: General

1.3.1 Limitations

This concept cost estimate is based on limited information and is therefore high level only (feasibility - 30 to +50%). It is intended to be used only for high level option assessment/selection and cannot be relied on or used for detailed pricing or budgeting purposes. Detailed construction methodology and geotechnical information is required prior to providing a detailed estimate of construction costs. There is a risk that the geotechnical conditions encountered could make this unfeasible, however this can only be determined through additional geotechnical investigations.

1.3.2 Assumptions

The following assumptions have been made for cost estimating purposes (see also the detail costs for more information)

- Only a rudimentary access allowed for along the pipe route for pipe installation
- Assume solid block fixed sprinkler irrigation is needed
- Planting of irrigation area based on 1000 pine tree seedlings per ha
- All works done during normal work hours
- The project will be procured on a competitive basis
- The contractor will be given free access to the Works site

1.3.3 Exclusions

No allowance has been included in the estimates for the following costs:

- Any upgrades at the WWTP itself (we have assumed the current treated wastewater quality will continue in the future)
- Fencing reconfiguration along the pipeline route
- Effects of climate change on future irrigation system performance
- Maintenance access tracks
- Land purchase
- Relocation of any existing services / utilities
- Contaminated material removal or treatment
- GST
- Escalation
- Costs to date
- Operating cost
- Insurance costs
- Legal and finance fees
- Risk items
- Covid-19 related costs

Sensitivity: General

1.3.4 Contingency Allowance

The cost estimate includes a 10% estimating allowance for design development and 15% contingency for construction/unforeseen costs. This allowance should be reassessed on completion of further site investigations and design development.

Yours sincerely

Jolanta Liutkute
Senior Process Engineer

on behalf of
Beca Limited
Phone Number:
Email: Jolanta.Liutkute@beca.com

Copy
Garrett Hall, Beca Limited

Sensitivity: General



Sensitivity: General

	CAPITAL COST ESTIMATE			Disposal	
Code	Description	Quantity	Units	Rate $	Subtotal $
Pump station and pressure line					
1.01	Pre-engineered fiber glass PS at WWTP. Including D/SB pump arrangement. Pump size 15 kW.	1	LS	110,000.00	110,000.00
1.02	PE125 PN16 OD125 (ID113)	4,700	m	230.00	1,081,000.00
1.03	Allowance for air valves and chambers	1	LS	50,000.00	50,000.00
1.04	Kaeo River crossing pipeline	1	LS	60,000.00	60,000.00
1.05	Electrical, control cabinet telemetry	1	LS	50,000.00	50,000.00
Fixed Spray irrigation (solid set block)					
1.06	Irrigation system for the area of 18.1 ha	18.1	ha	50,000.00	905,000.00
1.07	Planting of irrigation area with Pines	18.1	ha	20,000.00	362,000.00
1.08	Storage pond 75mx80mx3.5m construction including earthworks	6,000	m2	155.00	930,000.00
1.09	Site preparation for pond installation	1	LS	75,000.00	75,000.00
1.10	Pond area fencing 77mx82m	318	m	120.00	38,160.00
1.11	Irrigation pump including control shed and concrete slab	1	LS	25,000.00	25,000.00
1.12	Electrical, controls, telemetry, need to bring lower from the road to the site.	1	LS	30,000.00	30,000.00
Planning					
1.13	Baseline groundwater and soil investigations	1	LS	50,000.00	50,000.00
1.14	Consenting, including AEE	1	LS	100,000.00	100,000.00
	Net Construction Cost Estimate				**3,716,160.00**
	Main Contractor On-site overheads (P&G) and Profit Margin	20%	%	3,716,160.00	743,232.00
	Gross Construction Cost Estimate				**4,609,392.00**
	Design Development Contingency	10%	%	4,609,392.00	460,939.20
	Construction Contingency	15%	%	4,609,392.00	691,408.80
	Total Construction Budget				**5,761,740.00**
	Professional Fees	6%	%	5,761,740.00	345,704.40
	Client-owned project costs	2%	%	5,761,740.00	115,234.80
	Rounding	1	LS		-4,919.20
	Total Expected Concept Capital Cost Estimate				**6,217,760.00**

6 INFORMATION REPORTS

6.1 FNDC / NTA TRANSPORTATION ACTIVITY UPDATE - FY 2021/22 – 6-MONTH REPORT

File Number: **A3612506**

Author: **Calvin Thomas, General Manager - Northland Transportation Alliance**

Authoriser: **Andy Finch, General Manager - Infrastructure and Asset Management**

TAKE PŪRONGO / PURPOSE OF THE REPORT

The purpose of this paper is to provide the FNDC Infrastructure Committee Members with an update on Far North District Council's transportation activities delivered through the Northland Transportation Alliance (NTA) in the first six months of the 2021/2022 financial year (1st July 2021 – 31st December 2021).

WHAKARĀPOPOTO MATUA / EXECUTIVE SUMMARY

This briefing report is provided for the information of FNDC and a further update summarising the full 2021/2022 achievements and outcomes will be provided at the September 2022 Infrastructure Committee meeting.

TŪTOHUNGA / RECOMMENDATION

That the Infrastructure Committee receive the report FNDC / NTA Transportation Activity Update - FY 2021/22 – 6-month Report

TĀHUHU KŌRERO / BACKGROUND

The NTA is responsible for overseeing and managing the delivery of transportation services for all Northland Councils (Far North District Council, Kaipara District Council, Northland Regional Council and Whangarei District Council).

Each quarter the NTA management team provide a summary report to the Alliance Leadership Group (NTA Governance) on activities and progress across the region. Information from that report pertaining to FNDC is included within this update.

MATAPAKI ME NGĀ KŌWHIRINGA / DISCUSSION AND NEXT STEPS

Updates are provided for the six-month period of July 2021 to December 2021. Future briefing papers will provide similar information for the preceding quarter, aligning with existing Governance reporting provided to the Alliance Leadership Group.

PĀNGA PŪTEA ME NGĀ WĀHANGA TAHUA / FINANCIAL IMPLICATIONS AND BUDGETARY PROVISION

There are no financial implications or budgetary provisions associated with this report.

ĀPITIHANGA / ATTACHMENTS

1. **Attachment - FNDC Infrastructure Committee - Transportation Activity update - March 2022 - A3612492** ⇩

Meeting: **FNDC Infrastructure Committee**

Name of item: **FNDC / NTA Transportation activity update FY 2021/22 – 6-month report**

Author: Calvin Thomas – NTA General Manager

Meeting Date: 23rd March 2021

•

1 Purpose

The purpose of this paper is to provide the FNDC Infrastructure Committee Members with an update on Far North District Council's Transportation activities delivered through the Northland Transportation Alliance (NTA) in the first six months of the 202122 financial year (1st July 2021 – 31st December 2021).

2 Background

The NTA is responsible for overseeing and managing the delivery of Transportation services for all Northland Councils (FNDC, KDC, NRC and WDC). Each quarter the NTA Management team provide a summary report to the Alliance Leadership Group (NTA Governance) on activities and progress across the Region. Information from that report pertaining to Far North District Council is included within this update.

For the current reporting period it is noted that delivery and associated expenditure is behind schedule due to:

1. Delays to the confirmation of the National Land Transport Plan (NLTP) and associated subsidised funding (confirmed early September 2021), and
2. Subsequent delays resulting from the outcomes of the NLTP resulting in a revision of the Council's 2021/24 Transportation programme – recommendations endorsed by Council on Thursday 4th November 2021.

As highlighted at the November Council meeting, and reiterated at the December Council meeting as part of the presentation of the 3-year Capital works programme, the delay in funding confirmation has negatively impacted the ability to commence the current year's projects and as such a significant portion of the planned 2021/22 programme will be carried forward to future years. It is presently anticipated that the full 2021/24 programme will be completed within the three-year period.

3 Discussion

Updates are provided for both the wider NTA Organisation and specific FNDC transportation activities for the six-month period of July 2021 to December 2021, aligning with existing Governance reporting provided to the Alliance Leadership Group.

3.1 Health & Safety

The NTA continues to record Health and Safety incidents and support Contract and Project Managers to manage incidents. A change of mindset has started to ensure that Health and Safety continues to be incorporated within contract management activity.

The NTA's new onboarding process now includes a meeting, held quarterly with all new staff who have commenced since last meeting, taking them through working in the NTA. Content includes an introduction to the NTA Health, Safety and Wellbeing policy and the NTA's H&S process.

In preparation for any preparedness for any Omicron outbreak individual Department Business Continuity Plans have been developed as part of the NTA's Organisational Business Continuity Plan. As part of the preparedness planning, Walton Plaza based NTA staff have been placed into two work bubbles, with each work bubble able to work part of the week in the office and part of the week working from home. The work bubbles will not intermingle, and workers will not be allowed into the office unless it is one of their assigned days to be in the office. NTA workers who are based at other offices within councils will be following that councils' principles and protocols, primarily the encouragement of Working from Home.

The NTA has been using guidance from the UNITE against Covid-19 website to develop protocols for any workers being highlighted as close contacts of positive cases and for any positive cases within the NTA.

3.2 Road Safety Update

Road Trauma Update: 2021 Year to date road death statistics

Fatalities this year	Far North	Whangārei	Kaipara	Northland	National
Local roads	4	3	4	11	178
State highways	7	8	7	22	142
TOTAL	11	11	11	33	320
% Local Roads	36%	27%	36%	33%	56%
% State Highways	64%	73%	64%	67%	44%

As demonstrated in the table above, 67% of Northland's 33 road deaths in 2021 occurred on the State Highway network (vs. 44% nationally). Discussions are being held with Waka Kotahi to obtain a better understanding on the proportional split of Vehicle Kilometres Travelled (VKT) on Northland's local roads and state highways in comparison to nationally to enable a better understanding of potential drivers for Northland's high proportion of deaths on State Highways in comparison to the national averages.

Driver behaviour (including impairment, speed and not wearing seatbelts) and mistakes continue to be key factors in Northland's crashes.

3.3 People & Capability

Recruitment activities have continued with a further four roles successfully filled over the past 3 months, with eight role vacancies presently in various stages of recruitment.

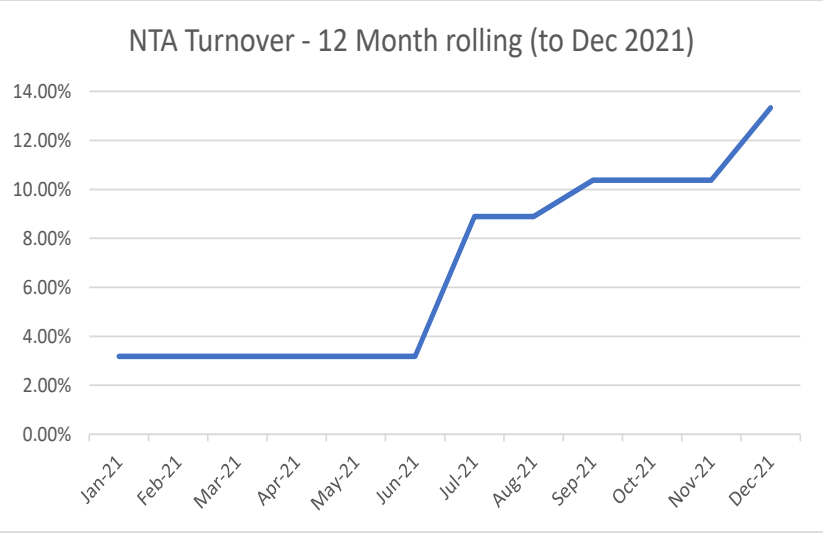
A summary of recruitment activities for the past three-month period (October 21 -> December 21) is provided in the following tables:

New 2021/24 Approved LTP Roles

Position	Hiring Council	Current Status	Latest Update Comments
Senior Development Engineer, Transportation	~~WDC~~ FNDC	Advertising	Re-advertising after original appointed candidate (Elizabeth Stacey) transferred to vacant Road Safety & Traffic Engineer role *Hiring Council now FNDC as result of internal transfer*
Regional Field Compliance Assessor	WDC	To be Advertised	Final Grading to be confirmed by partner Councils Plan to advertise in late January 2022

Replacement Roles

Position	Hiring Council	Current Status	Latest Update Comments
Roading Corridor Coordinator (Replacement for Aran - promoted)	KDC	Position filled	External Candidate - Erin Eldhose - starting on 17/01/22
CAR Lead (Replacement for Simon M - role change)	WDC	Position filled	External Candidate - Rachel Taylor - started on 13/12/21
Transport Projects Support Officer (Replacement for Nicole - promoted)	NRC	Position filled	External Candidate - Cat Walker - starting on 10/01/22
Road Safety & Traffic Engineer (Replacement for Sandi - resigned)	~~FNDC~~ WDC	Position filled	Internal Candidate - Elizabeth Stacey - commenced on 18/10/21 *Hiring Council now WDC as result of internal transfer*
Project Manager (Replacement for Paras - resigned effective Sept 21)	WDC	To be Advertised	Advertised once without success - to be readvertised in late January 2022
CAR Specialist (Replacement for Wendy - resigned effective Dec 21)	FNDC	Advertising	Advertised once without success - readvertised and closes 24th January 2022
CAR Specialist (Replacement for Alan - retired effective Dec 21)	FNDC	Advertising	Advertised once without success - readvertised and closes 24th January 2022
Maintenance & Operations Manager (Replacement for Aram - resigned effective Jan 22)	FNDC	Advertising	Advertised once without success - readvertised and closes 24th January 2022
Road Safety & Traffic Engineer (Replacement for Victor - resigned effective Jan 22)	FNDC	Advertising	Advertising closes 24th January 2022 Advertising combined with Snr. Dev Eng role
Graduate Asset Engineer (Operations) (Replacement for Anjitha - resigned effective Jan 22)	WDC	To be Advertised	To be advertised in late January 2022



Following an extended period of stability, 12 month rolling turnover has increased to 13.33% as at December 2021, including 7 resignations and 2 retirements since January 2021.

Of the seven resignations, four have taken up opportunities outside of Northland.

With three further staff leaving in January (resignations to relocate away from Northland) turnover is forecast to increase to 16.3% in January 2022.

3.4 Financials

2021/22 Transportation Budgets were finalised in November 2021 following respective Council decisions on NLTP outcomes and recommendations.

Due to the delay in NLTP announcements and subsequent finalisation of budgets, expenditure year to date is tracking behind finalised LTP budgets in most areas. As reported in the Capital Works section, this delay in finalisation of budgets has impacted negatively on 2020/21 programme delivery timeframes will result in larger than normal carry forwards into 2022/23 however it is anticipated that all works associated with approved 2021/24 NLTP funding will be completed within the three year period.

FNDC Transportation Budgets	Current Full Year Budget	YTD Expenditure	% YTD
FNDC (BAU - NTA Led)	$ 58,975,584	$ 14,859,685	**25.2%**
FNDC (External Funding - NTA Led)	$ 862,348	$ 142,449	**16.5%**
	$ 59,837,932	**$ 15,002,133**	**25%**
FNDC (non NTA Led)*	*$ 16,194,967*	*$ 4,504,683*	**27.8%**

** Delivery of these budget items managed by FNDC External Funded Projects team or Transport Planner*

Year to Date expenditure across the primary budget line items related to routine unsealed road maintenance are provided below noting that the heavy metalling programme for 1st six months was based on historic approved subsidised budgets which have subsequently been increased:

FNDC Unsealed Network Activities	Current Full Year Budget	YTD Expenditure	% YTD
Unsealed Road Metaling	$ 3,814,682	$ 1,082,530	28.4%
Drainage Renewals*	$ 722,700	$ 336,160	46.5%
Unsealed pavement maintenance	$ 3,947,449	$ 1,614,095	40.9%
Routine Drainage Maintenance*	$ 1,722,884	$ 858,850	49.8%
	$ 10,207,715	**$ 3,891,635**	**38.1%**

**Budget item(s) cover both sealed & unsealed networks*

Operational management and specialist staff continue to be utilised to complete tasks across the three District Councils, with 14.7% of FNDC work completed by NTA employees of other Councils.

3.5 Operational Highlights

Asset Management & Strategy

Analysis was completed on the outcomes and impacts of the 2021-24 National Land Transport Fund (NLTF) funded programme, with recommendations papers for the use of any surplus local share developed for Council consideration and each paper presented in early November 2021. At this meeting Council approved the staff recommendation for reinstatement of $3,282,622 local share for MOR to enable the uptake of all available subsidy along with the redistribution of remaining surplus unsubsidized local share to relevant activities.

Future Activity Management Plan (AMP) improvement projects that the team are working on for the 2021/22 year include:

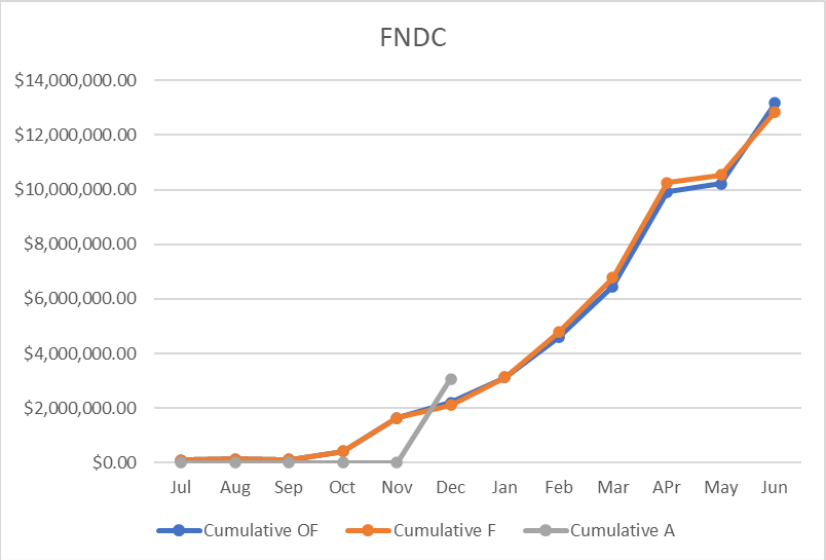
- One Network Framework (ONF) integration into our RAMM databases.
- Combining the 3 Councils RAMM database and introducing the Asset management Data Standard (AMDS).
- Transportation Procurement Strategy refresh, (completed).
- Unsealed road data collection - condition and dust.
- Increasing detailed understanding of the unsealed road Lump Sum items in the Maintenance Contracts

Capital Works & Procurement

As demonstrated in the graph and tables below, the delays in the confirmation of funding are forecast result in a significant portion of the 2021/22 programme being carried forward to 2022/23 and 2023/24. These projected carry overs predominately relate to Low Cost Low Risk projects, with further details provided in the Monthly IAMS reports.

	Budget	Forecast	Actuals	Carry-Over
FNDC	$18,799,005.36	$12,855,719.49	$3,063,234.69	$5,943,285.87

Status	% No. of Projects	Description	Capital & Procurement Team Budget	% of Total Budget
	16	Will be fully delivered this year	$7,582,275.36	40%
	20	Will be Partly delivered	$6,122,730.00	33%
	52	Will not be delivered this year	$5,094,000.00	27%
		Total	**$18,799,005.36**	**100%**


FNDC
$14,000,000.00
$12,000,000.00
$10,000,000.00
$8,000,000.00
$6,000,000.00
$4,000,000.00
$2,000,000.00
$0.00
Jul
Aug
Sep
Oct
Nov
Dec
Jan
Feb
Mar
APr
May
Jun
Cumulative OF
Cumulative F
Cumulative A

Delivery Highlights

FNDC's PGF funded seal extension works jobs that were awarded to the Maintenance & Renewal Contractor (FH and Ventia) are now complete. The new seals on Ngapipito Rd (4.8km), Peria Rd (5.5km), and Ruapekapeka Rd (0.5km) are due for 2nd Coat seals in the 2022/2023 summer season, with PGF funds set aside to achieve this essential waterproofing work to protect the significant pavement upgrade investment.

FNDC also has TIF Project approved to seal the 950m of Bayly Rd to the Waitangi Mountain Bike Park entrance. This project on track for completion in mid-February, well before the 31 March 2022 due date.

FNDCs non-subsidised seal extension projects now have design briefs and the Capital Works Project team have completed site investigations & testing for designs and pricing. Unahi Rd sealing to the wharf is also included in this package of work.

Unsealed Network improvements:

- In the Far North the application of dust suppressant outside up to 160 rural homes, schools and Marae was completed prior to Christmas and 36 km of unsealed roads are planned to be improved within this financial year.
- A Regional communication regarding planned unsealed Network improvements was developed by the NTA and has been published in several Northland newspapers.

Maintenance & Operations

The NTA formally reported to Council(s) a level of general satisfaction with the overall performance by the 5x Contractors over the first 3-years of these contracts, with a notable improvement in timely delivery and increase in quantities achieved. These Maintenance & Renewals (M&R) contracts continue to apply very cost-effective tendered rates in carrying out the works and has delivered the expected outcomes with the introduction of regional comparisons of service delivery and vastly improved asset inventory knowledge. Based on acceptable Contractor performance, suitable contract model and confidence in value-for-money rates being applied, the three respective Councils have all approved Separable Portion 2. The Contractors have been notified in writing and this has been beneficial in retaining their key personnel into the foreseeable future.

Over the first six months of this financial year all the Maintenance & Renewal Contracts have met the 90% compliance target and, while this is a good result, there remains a concern that the performance scores do not reflect the actual condition of the roads, particularly the unsealed road networks. The requirement to meet response times remains an issue, with all Contractors struggling to consistently meet >90% target. Non-Conformance Records (NCRs) will again be issued where response times are behind, with payment penalties applied to the respective monthly claims.

The NTA has recently activated KPM Nos 28 and 29 that measure and report the statistical compliance of workmanship quality, both routine works (Lump Sum / month) and ordered works (measure and value tasks).

The NTA continues to push the Contractors to develop well balanced Annual Works Plans for the respective activity groups they undertake, considering seasonal productivity, materials production and supply timelines and construction timelines. Early and clear line of sight to the volumes and associated resources required to achieve these quantities is key to successful delivery.

Contractors monthly achievement data has been tabulated for month-by-month comparison and likeness between networks (Contractor) enabling the NTA to highlight any trends and/or significant variance that can inform ongoing activity focus areas and Asset Management Plans for future funding projections. Trends identified in the Oct-Dec quarter of 2021 include:

- Grading and Unsealed Gravel quantities were notably lower across all networks in the lead up to Christmas, reflective of the drier conditions experienced further north

limiting the benefits achieved by grading dry loose roads, with those networks having invested heavily in grading most of the network in the preceding months.
- Sealed road repair quantities were generally high reflecting the favourable conditions for this type of work.
- KDC and FNDC both had high quantities of roadside drainage. Drainage remains a priority activity to protect road pavements.
- Road signs maintenance and repairs in FNDC is again high; and
- Roadside vegetation control activities were low, with exceptions of FNDC North Area (FH) and WDC North Area (FH). Vegetation envelope/canopy slashing quantities during December increased in these areas preparing for summer holiday traffic.

Hokianga Ferry

Operational Highlights

The service transported a daily average of 396 passengers and 201 motor vehicles during this quarter. 97.5% of sailings have departed in accordance with the advertised timetable for the 2nd quarter. This result excludes shuttling, which is when the vessel runs continuously to clear queuing vehicles during periods of high demand.

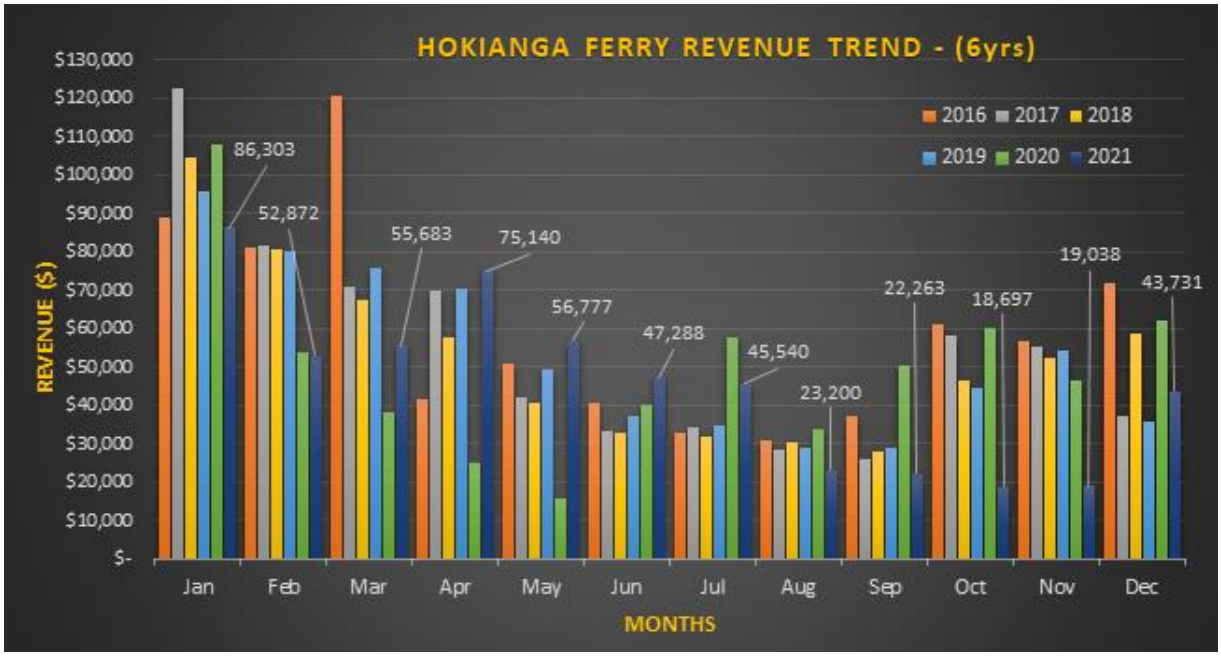
Major maintenance and renewals items underway / completed included:

- Installation of the 4th and final new jet pump.
- The 4 new gearboxes have been received by the contractor and the installation of these will be completed progressively during April and May 2022, with no planned service outage.

Revenue

Revenue received from ticket sales for this quarter was lower than the previous quarters. The ongoing covid-19 pandemic and the resultant restrictions and hard borders negatively impacted through low tourist numbers, especially during the December period.

The graph below illustrates the revenue trend for the last six years.



Operations H&S Risks

- There was one incident reported in November 21 where a vehicle connected with the side of the vessel as it was boarding. The Contractor is carrying out an investigation into the incident.
- Considering the ongoing covid-19 pandemic, the Contractor is carrying out consultation with Ferry staff on vaccine requirements, based on role-based risk analysis, to ensure continuity of service.

Corridor Access Requests

Corridor Access Request (CAR) applications for the region continue to be processed by the CAR team based in Whangarei whilst recruitment for the two vacant CAR Specialist positions is in progress. For the second quarter of 2021/2022, a total of 1,344 Corridor Access Requests were received, of which 688 were processed during the quarter. Approximate proportion of total applications by Council were:

- WDC 54%
- KDC 25%
- FNDC 21%

Additionally, 1,302 CAR applications related to the previous approved CAR's were closed off as works have been completed and the works warranty period expired.

Tabulated below is a summary of the Corridor Access Requests.

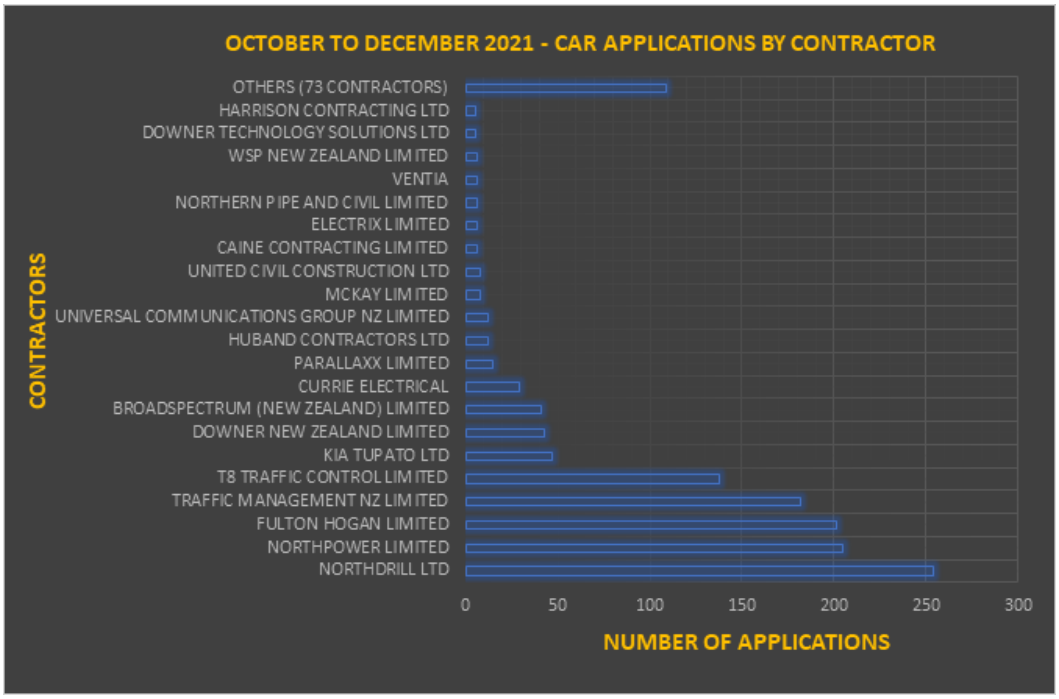
October - December 2021 - Corridor Access Request (CAR)					
Applications Received		Applications Processed		Pending	CAR's Closed / End of warranty
Type	Applications	Approved	Cancelled		
Event	26	14	8	4	22
Excavation	842	308	527	7	765
Non-Excavation	464	354	65	45	509
Emergency / Retrospective	12	12	0	0	6
Totals	1344	688	600	56	1302

CAR's pending relates to those submitted in late December and those put on-hold, with these to processed in January 2022.

A total of 600 CAR's have been cancelled for the following reasons:

1. Works on State Highway – CAR to be submitted to NZTA
2. Works have been cancelled by applicant
3. Service locates through B4Udig for planning purposes only, no CAR required

The following graph illustrates the CAR applications submitted by organisations. Majority of the CAR applications in this quarter have been submitted by NorthDrill.



Customer Interactions

Analysis has been undertaken on the Transportation measures within each Council's respective 2020/21 Annual Customer Survey Reports, specifically:

- Far North District Council 2021 Annual Residents' Survey
- Kaipara District Council Annual Residents' Survey 2020/2021
- Whangarei Residents Survey Jube 2021
- Northland Regional Council Annual Residents' Survey 2021

Far North, Kaipara and Northland Regional Councils all utilise "Key Research" to conduct these surveys, while Whangarei District uses "Versus Research". However, despite commonality in providers across three Councils, there are only a limited number of comparable questions related to the NTA across these reports.

There is also an accepted Margin of Error built into the reports. These are detailed opposite for each organisation.

2021 Margin of Error	
Far North	4.40%
Kaipara	3.29%
Northland Regional	5.15%
Whangarei	4.00%

The survey participant numbers for each organisation are

- Far North - 501
- Kaipara – 883
- Northland Regional - 814
- Whangarei - 600

Overall

Given the amount of investment and overall asset health increase in recent times, it is surprising to see satisfaction return to pre-pandemic levels. At a macro level, there is a general decrease in satisfaction for Footpaths and Sealed Roads, whereas Unsealed Roads remains relatively constant, albeit low. While the year on year comparisons are relative for each Council, it is noted that, even with the three "best aligned measures" above there are discrepancies with question wording, satisfaction scale (6-10 vs. 7-10) and the treatment of "don't know" answers.

Northland Annual Customer Survey District Results

Note - Items are taken from a 'best aligned' approach as each council's descriptors vary

Item	Far North			Kaipara			Whangarei			Average		
	18/19	19/20	20/21	18/19	19/20	20/21	18/19	19/20	20/21	18/19	19/20	20/21
Footpaths	35	51	42	56	47	49	46	51	45	**45.7**	**49.7**	**45.3**
Sealed Roads	33	40	29	48	35	34	24	27	22	**35.0**	**34.0**	**28.3**
Unsealed Roads	12	19	13	23	16	16	10	15	16	**15.0**	**16.7**	**15.0**
Averages	**26.7**	**36.7**	**28.0**	**42.3**	**32.7**	**33.0**	**26.7**	**31.0**	**27.7**	**31.9**	**33.4**	**29.6**

Anecdotal speculation would point to general global unrest in uncertain times. While this may be a possibility, extracts from similar reports around New Zealand suggests this could be possible.

Far North District Council Highlights

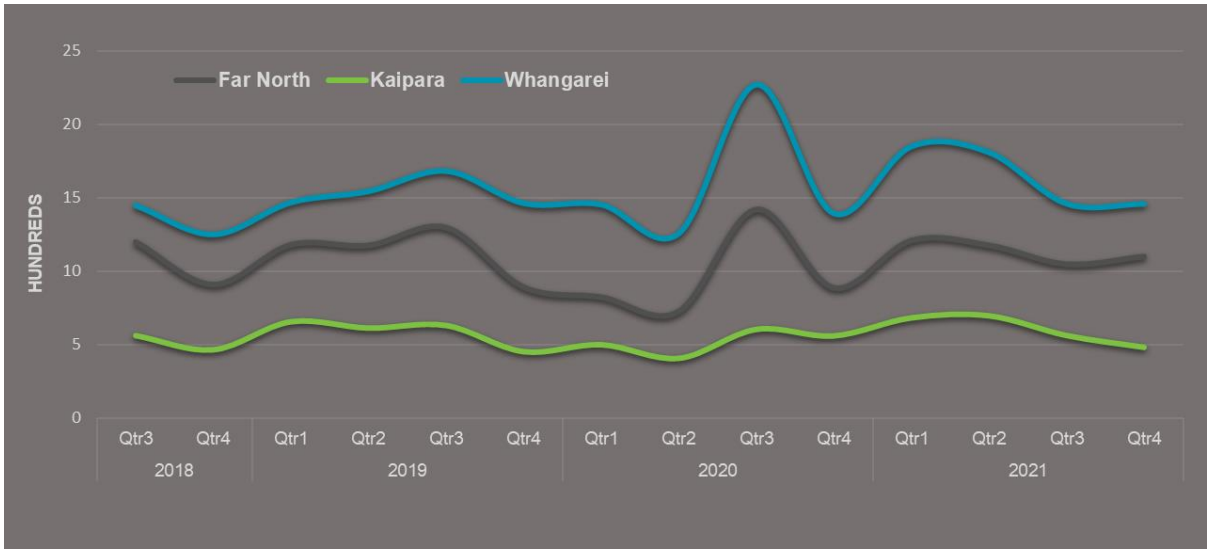
With each subcategory decreasing in satisfaction year on year, Far North results return to 2019/20 levels. In terms of being either 'Satisfied' or 'Very satisfied' from seven subcategories:

- Four are within 1% compared to 2019
- One has decreased by 4%, technically within the Margin of Error
- The remaining two have increased by 4% and 7% and both relate to Footpaths

Satisfaction based on a score between 7-10 out of 10 and *excludes* responses of "don't know"

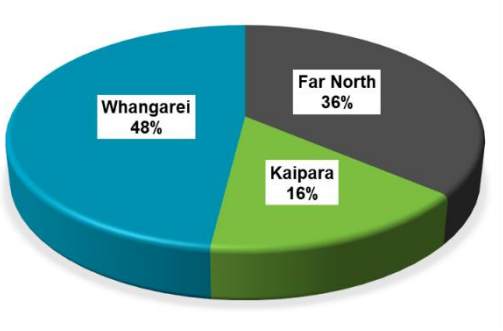
Current Calendar year

The chart below commences from the 1st July 2018, providing sufficient historical data to look at associated trends. The numbers decreased understandably during the 2020/21 1st quarter as a likely result of the Covid 19 national lockdown. However, it is pleasing to note that this has not 'spiked' again afterwards.



District Distribution

- Whangarei retains a consistent portion of the interactions. The remaining partners vary slightly with an increase experienced in Far North and a corresponding decrease in Kaipara.
-
- The primary reason for the increase in Far North was within the category of 'Roading Correspondence'. This is being addressed as part of the Customer Journey Mapping project as it is returning numbers that are potentially inaccurate by as much as 15%



Hokianga Ferry

- There was a single request received during this quarter. In December, a passenger complained that crew were not wearing masks on the day that customer used the ferry. Duty managers replied the same day noting that, while it is Company policy for crew to wear masks, some crew have medical exemptions. Also, it is not a legal requirement on open-air ferries. A policy reminder has been shared all crew.

:

4 Summary

This briefing report is provided for the information of FNDC Elected Members summarising first six months of the 202122 financial year (1st July 2021 – 31st December 2021).

5 Report Approval

Approved by:



Calvin Thomas
General Manager – Northland Transportation Alliance

28th February 2022

6.2 INFRASTRUCTURE AND ASSET MANAGEMENT (IAM) MONTHLY BUSINESS REPORT FOR JANUARY 2022

File Number: **A3612880**

Author: **Tania George, EA to GM - Infrastructure and Asset Management**

Authoriser: **Andy Finch, General Manager - Infrastructure and Asset Management**

TAKE PŪRONGO / PURPOSE OF THE REPORT

To present a summary of Infrastructure and Asset Management activity and information items.

WHAKARĀPOPOTO MATUA / EXECUTIVE SUMMARY

The Infrastructure and Asset Management Update provides an overview of Infrastructure and Asset Management activity for the period of January 2022.

TŪTOHUNGA / RECOMMENDATION

That the Infrastructure Committee receive the report "Infrastructure and Asset Management (IAM) Monthly Business Report January 2022".

TĀHUHU KŌRERO / BACKGROUND

This report presents a range of performance and interest items focussed on ; Council Infrastructure.

MATAPAKI ME NGĀ KŌWHIRINGA / DISCUSSION AND NEXT STEPS

This is the monthly IAM Business Report for January 2022. Coming back from an extended, but well needed Christmas break, the team have once again focussed on continuing the great work undertaken last calendar year.

Delivery this year has been impacted by, and will continue to be impacted by, supply chain constraints and significant cost increases being seen in procurement. This is resulting in long lead-in times for materials, particularly those of a specialist nature. Oil prices have also seen a marked increase, as reflected by the price of fuel, and this is likely to impact upon roading reseal and rehabilitation projects.

By request, this month the Northland Transportation Alliance have provided an update on the District Wide speed limit review, including key dates for those review underway and those to be undertaken in the future.

Latent capacity modelling is underway across the District. Some of the models are complete whilst work progresses on the remainder. The models themselves will be available by June 2022, however, the interpretation and analysis of the models will take longer, including a review of the Area of Benefit for each plant. Overall, it will be about an 18 month to 2-year exercise to complete this work.

Significant staff effort and resource from the Infrastructure Planning team is committed to the resource consent renewal across seven wastewater treatment plants. The allocation of staff resources to work on progressing other activities including progressing the sludge strategy has been reduced at this time.

I would also like to reflect on the enormous effort the operational teams have been putting in to "keep the lights on" across the Far North. Despite Covid restrictions, and the potential impacts of operational staff engaged by Council and external suppliers having to isolate, so far, a normal service has been maintained.

At the request of Elected Members the report now includes details of roading inspections undertaken.

Although a more recent announcement the Paihia Wastewater Treatment Plant Upgrade won the Excellence in Project Innovation Award at the Institute of Public Works Engineering Australasia (IPWEA) 2021 NZ Excellence Awards.

Also the work on the Te Hiku Revitalisation Project, has resulted in Kaitaia winning “Most Beautiful Small Town” award run by Keep New Zealand Beautiful. A good result for the team, including the Elected Members and community that have driven this project.

Work is continuing on reformatting the business report to provide a more accessible and condensed version. It is anticipated that the first publication of the new format will occur before the end of June.

With Shaun leaving his role of Chief Executive at the end of March, the IAM team would formally wish to recognise the support and encouragement he has provided to build delivery and customer focus across the team. The contents of this report reflect on how far the team has come under his tenure. We wish Shaun well for his future endeavours.

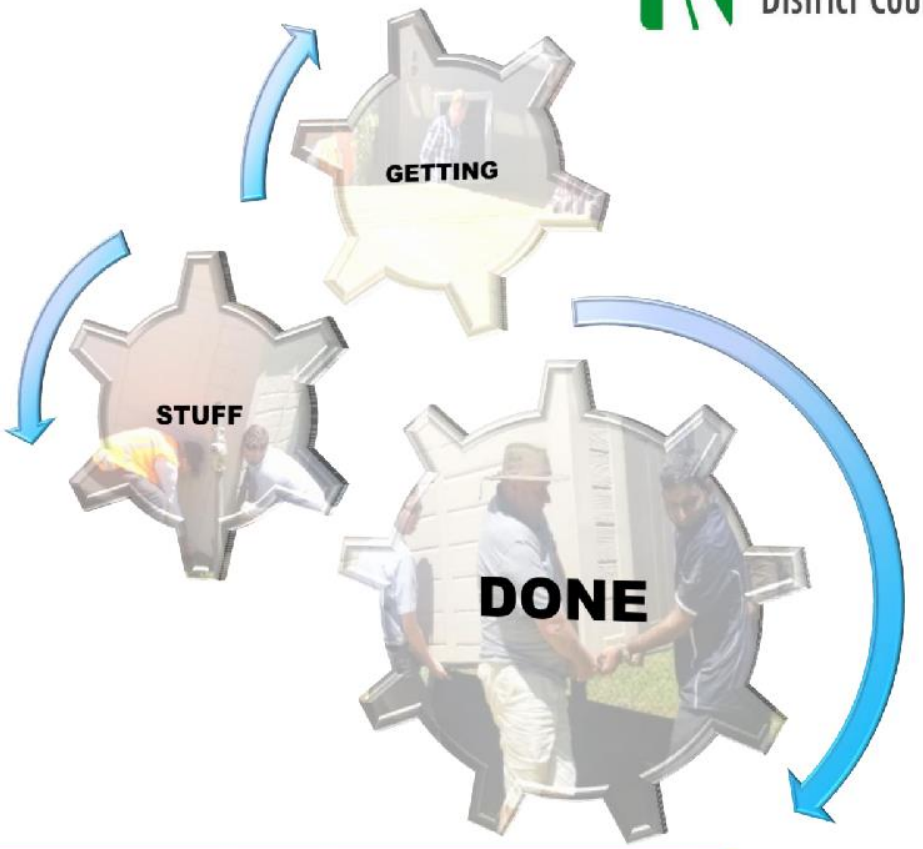
PĀNGA PŪTEA ME NGĀ WĀHANGA TAHUA / FINANCIAL IMPLICATIONS AND BUDGETARY PROVISION

None

ĀPITIHANGA / ATTACHMENTS

1. IAMs Business Report as at 31 January 2022 FINAL - A3621893

Far North District Council

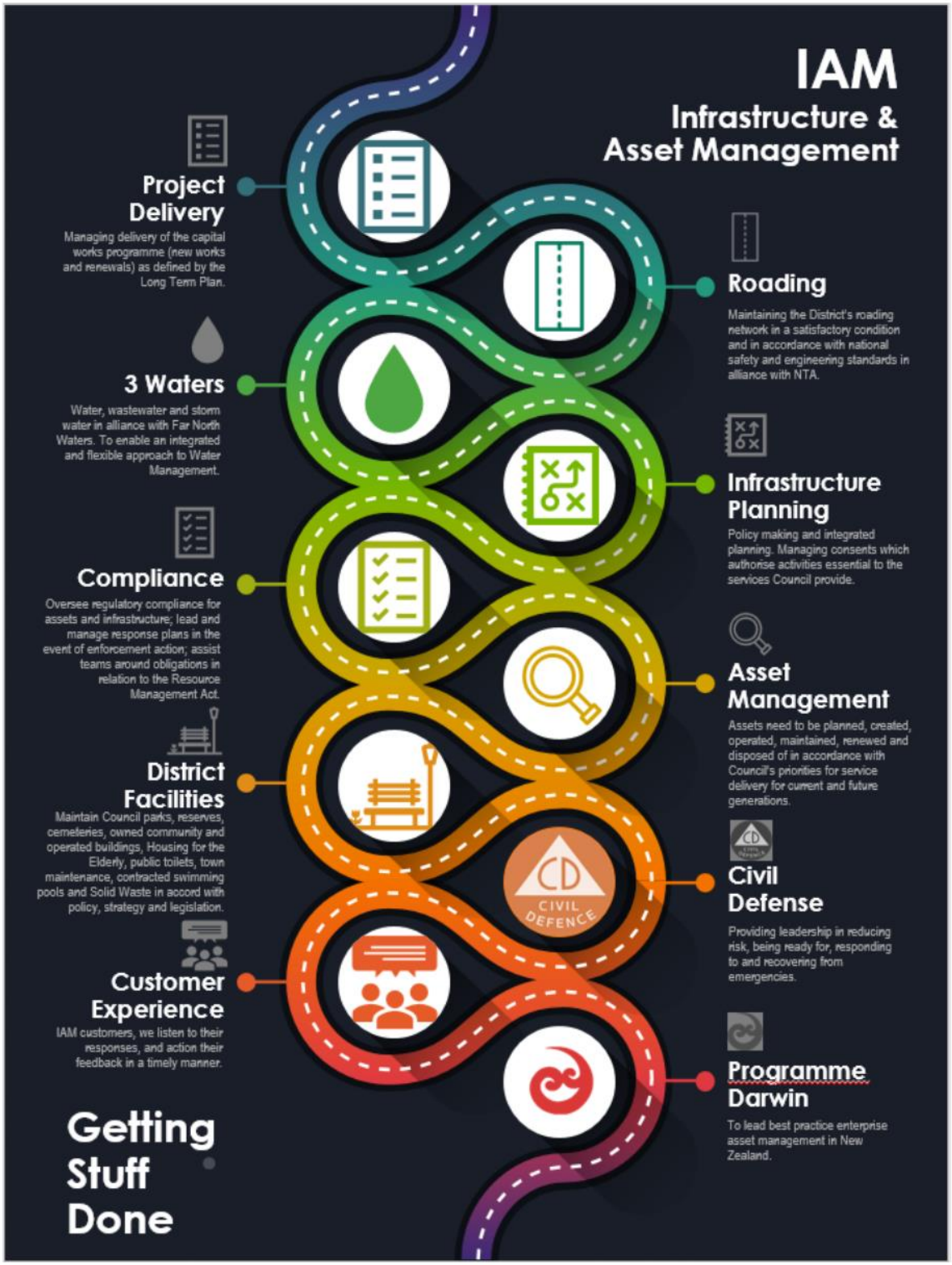


Infrastructure and Asset Management

Monthly Business Report

JANUARY 2022

HE ARA TĀMATA
CREATING GREAT PLACES
Supporting our people


IAM
Infrastructure & Asset Management
Project Delivery
Managing delivery of the capital works programme (new works and renewals) as defined by the Long Term Plan.
3 Waters
Water, wastewater and storm water in alliance with Far North Waters. To enable an integrated and flexible approach to Water Management.
Compliance
Oversee regulatory compliance for assets and infrastructure; lead and manage response plans in the event of enforcement action; assist teams around obligations in relation to the Resource Management Act.
District Facilities
Maintain Council parks, reserves, cemeteries, owned community and operated buildings, Housing for the Elderly, public toilets, town maintenance, contracted swimming pools and Solid Waste in accord with policy, strategy and legislation.
Customer Experience
IAM customers, we listen to their responses, and action their feedback in a timely manner.
Getting Stuff Done
Roading
Maintaining the District's roading network in a satisfactory condition and in accordance with national safety and engineering standards in alliance with NTA.
Infrastructure Planning
Policy making and integrated planning. Managing consents which authorise activities essential to the services Council provide.
Asset Management
Assets need to be planned, created, operated, maintained, renewed and disposed of in accordance with Council's priorities for service delivery for current and future generations.
CIVIL DEFENCE
Civil Defense
Providing leadership in reducing risk, being ready for, responding to and recovering from emergencies.
Programme Darwin
To lead best practice enterprise asset management in New Zealand.

CONTENTS

SUCCESSES 4
CAPITAL SPEND ANALYSIS 5
TRANSPORTATION 9
PROJECT DELIVERY 21
TOURISM INFRASTRUCTURE FUND 34
ENGINEERING STANDARDS 39
PROGRAMME DARWIN 46
INFRASTRUCTURE PLANNING 51
INFRASTRUCTURE COMPLIANCE 59
ASSET MANAGEMENT 63
DISTRICT FACILITIES 66
PROVINCIAL GROWTH FUND (PGF) ROADING 89
TE HIKU O TE IKA REVIATLISATION 95
CIVIL DEFENCE EMERGENCY MANAGEMENT 102
APPENDICES 108
DIA FUNDED PROGRAMME 109
SOCIAL PROCUREMENT 112
FNDC 21/22 CAPTIAL AND RENEWAL PROGRAMME 119
VENTIA – CONTRACT 7/18/101 ROAD MAINTENANCE AND RENEWALS - MONTHLY REPORT 130
FULTON HOGAN - NORTH AREA MAINTENANCE NETWORK CONTRACT 7/18/100 MONTHLY REPORT 185
NZ TRANSPORT AGENDCY (WAKA KOTAHI) - NORTHLAND ACTIVITY UPDATE 240
3 WATERS OPERATIONS 244

SUCCESSES

VENTIA

Check out the Ventia report here – some great work and engagement with the public.

FULTON HOGAN

More good work by the team at Fulton Hogan.

CAPITAL SPEND ANALYSIS

Capital Spend Analysis

as at 31-Jan-2022

	YTD ($000's)		Full Year ($000's)							
LTP Group	**YTD Actual**	**Commitments**	**LTP Budget**	**Carry Forward Budget**	**Total Annual Budget**	**Actual vs Budget %**	**Total Annual Forecast**	**Actual vs Forecast %**	**Forecast vs Budget %**	**Forecast vs Budget Variance**
District Facilities	2,507	2,815	18,292	5,509	23,801	10.5%	20,350	12.3%	86%	(3,450)
Wastewater	656	737	13,047	1,926	14,973	4.4%	7,911	8.3%	53%	(7,062)
Water Supply	527	770	6,722	907	7,629	6.9%	6,643	7.9%	87%	(986)
Stormwater	141	132	3,672	311	3,983	3.5%	1,413	10.0%	35%	(2,569)
Solid Waste	112	19	767	155	922	12.1%	756	14.8%	82%	(166)
Project Delivery Team Subtotal	**3,943**	**4,474**	**42,500**	**8,808**	**51,307**	**7.7%**	**37,074**	**10.6%**	**72%**	**(14,234)**
Roading & Footpaths	6,425	10,978	31,827	4,177	36,004	17.8%	38,747	16.6%	108%	2,744
IAM Total	**10,369**	**15,452**	**74,327**	**12,985**	**87,311**	**11.9%**	**75,821**	**13.7%**	**87%**	**(11,490)**
Environmental Management	57	5	28	0	28	205.0%	28	205.0%	100%	0
Governance & Strategic Administratic	697	742	3,407	1,932	5,338	13.1%	4,328	16.1%	81%	(1,010)
Customer Services	298	365	1,431	917	2,348	12.7%	2,416	12.3%	103%	68
Strategic Planning	15	0	0	0	0	0.0%	120	12.9%	0%	120
Other Total	**1,068**	**1,112**	**4,865**	**2,848**	**7,714**	**13.8%**	**6,891**	**15.5%**	**89%**	**(822)**
Sub Total	**11,436**	**16,564**	**79,192**	**15,833**	**95,025**	**12.0%**	**82,712**	**13.8%**	**87%**	**(12,312)**
DIA Projects										
Water Supply	7,826	4,929	4,852	8,024	12,876	60.8%	17,267	45.3%	134%	4,392
Wastewater	0	0	0	0	0	0.0%	0	0.0%	0%	0
Stormwater	0	0	0	0	0	0.0%	0	0.0%	0%	0
Total DIA Projects	**7,826**	**4,929**	**4,852**	**8,024**	**12,876**	**60.8%**	**17,267**	**45.3%**	**134%**	**4,392**
ESEO Projects										
District Facilities	6,105	4,348	44,086	3,098	47,184	12.9%	46,561	13.1%	99%	(623)
Environmental Management	82	0	953	327	1,280	6.4%	1,280	6.4%	100%	0
Roading & Footpaths	3,966	8,874	11,449	3,105	14,555	27.2%	14,555	27.2%	100%	0
Total ESEO Projects	**10,152**	**13,222**	**56,489**	**6,529**	**63,019**	**16.1%**	**62,396**	**16.3%**	**99%**	**(623)**
Total	**29,415**	**34,715**	**140,533**	**30,386**	**170,919**	**17.2%**	**162,376**	**18.1%**	**95%**	**(8,544)**

Comments:

The 'Total Annual Forecast' is what is expected to be spent by 30 June 2022.

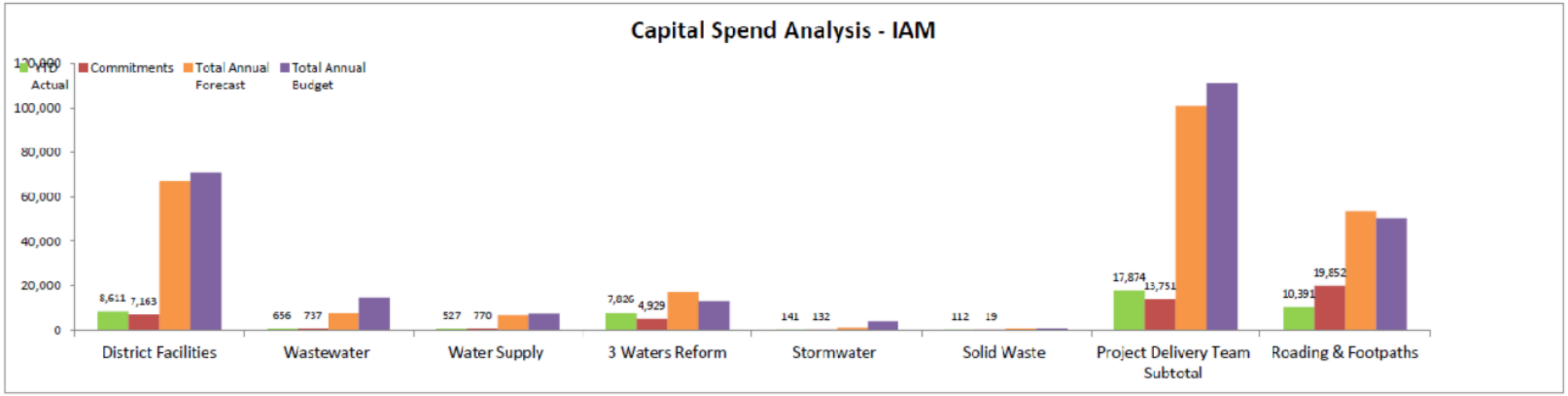
The above completion % are based solely on the actual spend to 31 Jan 2021.

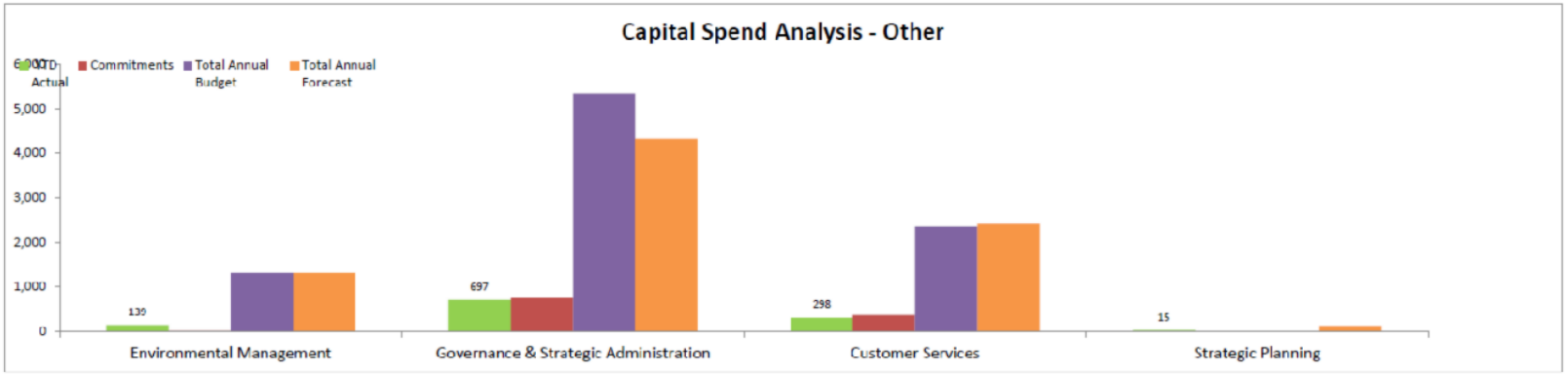
The picture below indicates the position if the commitments that are still to be completed are included in the calculations.

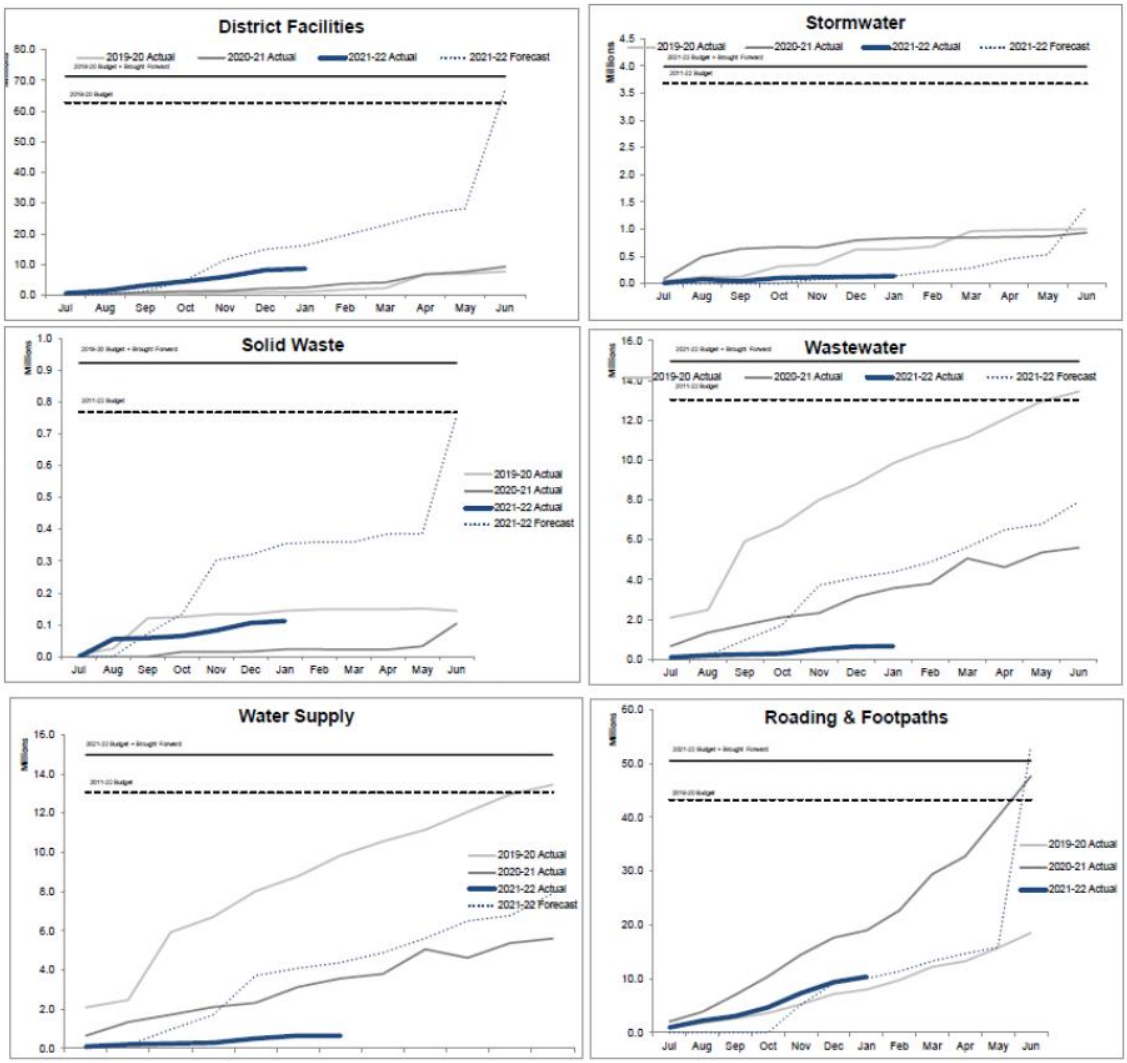
Capital Spend Analysis

as at 31-Jan-2021

LTP Group	Actual + commitments against total forecast budget YTD Actual (%)
District Facilities	26.2%
Wastewater	17.6%
Water Supply	19.5%
Stormwater	19.3%
Solid Waste	17.4%
Project Delivery Team Subtotal	**22.7%**
Roading & Footpaths	44.9%
IAM Total	**34.1%**
Environmental Management	222.0%
Governance & Strategic Administratic	33.3%
Customer Services	27.5%
Strategic Planning	12.9%
Other Total	**31.6%**
Sub Total	**33.9%**
DIA Projects	
Water Supply	73.9%
Wastewater	0.0%
Stormwater	0.0%
Total DIA Projects	**73.9%**
ESEO Projects	
District Facilities	22.4%
Environmental Management	6.4%
Roading & Footpaths	88.2%
Total ESEO Projects	**37.5%**
Total	**39.5%**


Capital Spend Analysis - IAM
YTD Actual
Commitments
Total Annual Forecast
Total Annual Budget
120,000
100,000
80,000
60,000
40,000
20,000
0
8,611
7,163
656
737
527
770
7,826
4,929
141
132
112
19
17,874
13,751
10,391
19,852
District Facilities
Wastewater
Water Supply
3 Waters Reform
Stormwater
Solid Waste
Project Delivery Team Subtotal
Roading & Footpaths


Capital Spend Analysis - Other
YTD Actual
Commitments
Total Annual Budget
Total Annual Forecast
6,000
5,000
4,000
3,000
2,000
1,000
0
139
697
298
15
Environmental Management
Governance & Strategic Administration
Customer Services
Strategic Planning


District Facilities
2019-20 Actual
2020-21 Actual
2021-22 Actual
2021-22 Forecast
Stormwater
Millions
Solid Waste
Wastewater
Water Supply
Roading & Footpaths
Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun

TRANSPORTATION

To maintain the District's transport network in a satisfactory condition and in accordance with national safety and engineering standards.

EXECUTIVE SUMMARY

A full update is provided within this report on the speed limit review program across the District, with the next catchment Recommendations report to be presented to Strategy & Policy Committee in March 2022.

The NTA Traffic Safety Team, in consultation with the communities of Moerewa and Kaikohe, have identified a strategy of proposed Local Area Traffic Management (LATM) projects that appear to have components suitable for application to the new Waka Kotahi "Streets for People" funding. Applications for Expression of Interest are due to Waka Kotahi on 22 February with selections being made in April 2022, with our applications seeking to build on work currently programmed and deliver additional LATM treatments to both communities.

The volume of Development Applications received by the Road Safety and Traffic Planning team remained lower than average in January (24 vs. 12 month rolling average of 33), with 19 applications processed. This being expected due to January being a slightly shorter month due to the Christmas shut down.

Work has now commenced delivering year one's projects of the full three year programme that was provided to Council in December noting that due to the lateness of funding confirmation, several projects originally identified for delivery in Year 1 have now been deferred to Years 2 & 3. The NTA remains confident however that, subject to any future ongoing Covid & supply chain constraints, the full programme should be delivered within the 3-year window.

Unsealed road improvements included limited short lengths targeted on sections of high summer traffic routes with compaction with water carts and rollers after a lot of holiday traffic through Christmas. Grading quantities were notably low across the network reflective of the drier conditions experienced limiting the benefits achieved by grading dry loose roads, with those networks having invested heavily in grading most of the network in the preceding months.

Corridor Access Request (CAR) applications continue to be processed by the CAR team based in Whangarei. For the month of January 2022, a total of 103 Corridor Access Requests were received of which 99 were processed during the month. Apart from these 23 CAR applications were closed off this month as works have been completed.

Revenue received from Hokianga Ferry ticket sales for January 2022 were down approximately 30% on the previous year. Northland joined the rest of New Zealand by moving down from Red to Orange on 20 Jan 22. The relaxed settings were short-lived, following confirmation that the Omicron variant was transmitting in the community, the whole of NZ moved to Red. Red and Orange settings are more restrictive than the Alert Level 1 settings that we in place in January 2021 and this, combined with heightened fears and sensitivities, continue impacting travel patterns and demand for the ferry service.

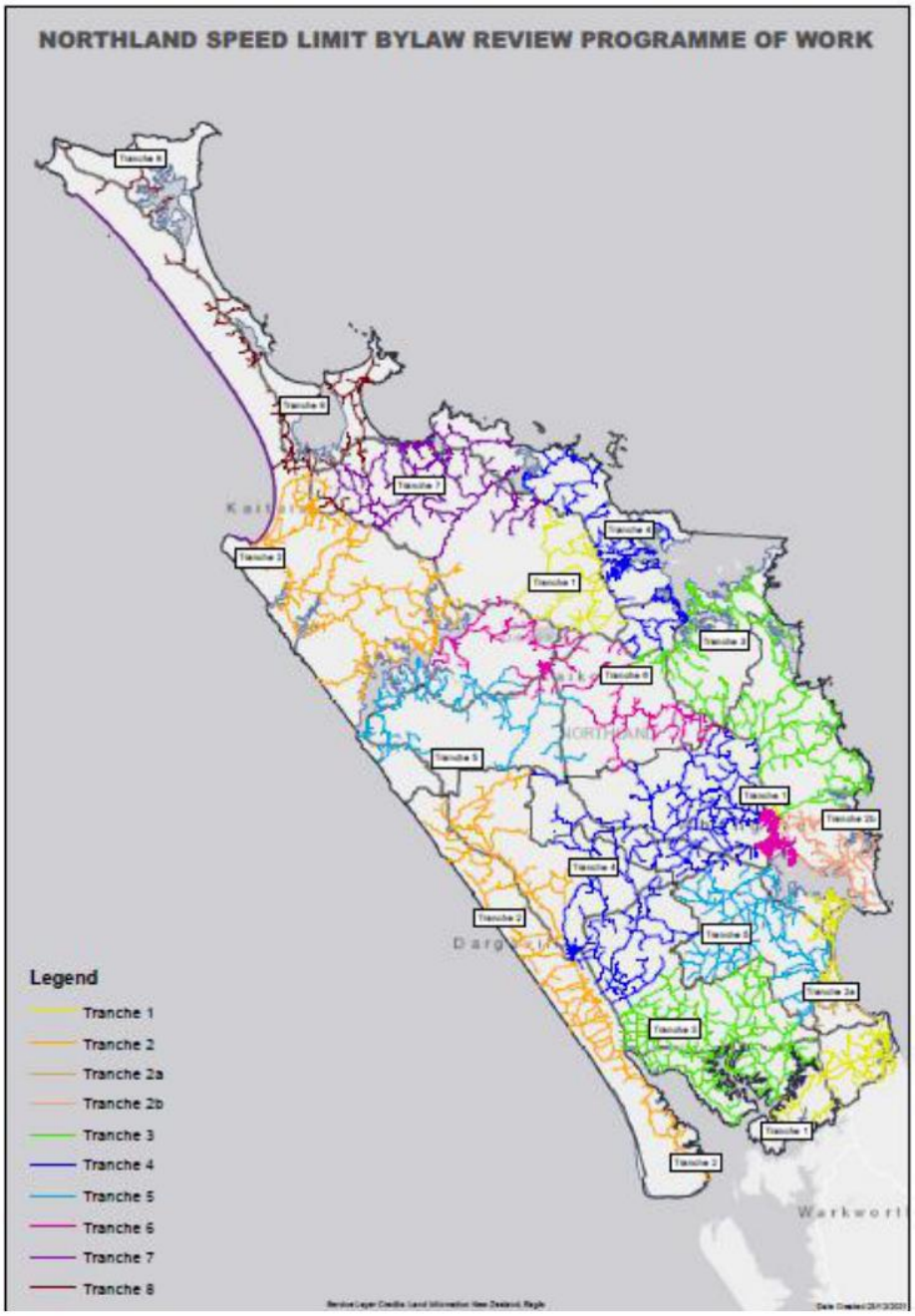
The cross-department project to review the customer experience process continues with the team focusing on Reporting in February. Customer Interaction numbers are comparable to the same month of the three previous years, had it not been for the year on year increase in requests under the 'Roading Correspondence' category (the generic Roading RFS category), the overall number of requests would have been at the lowest levels in recent years.

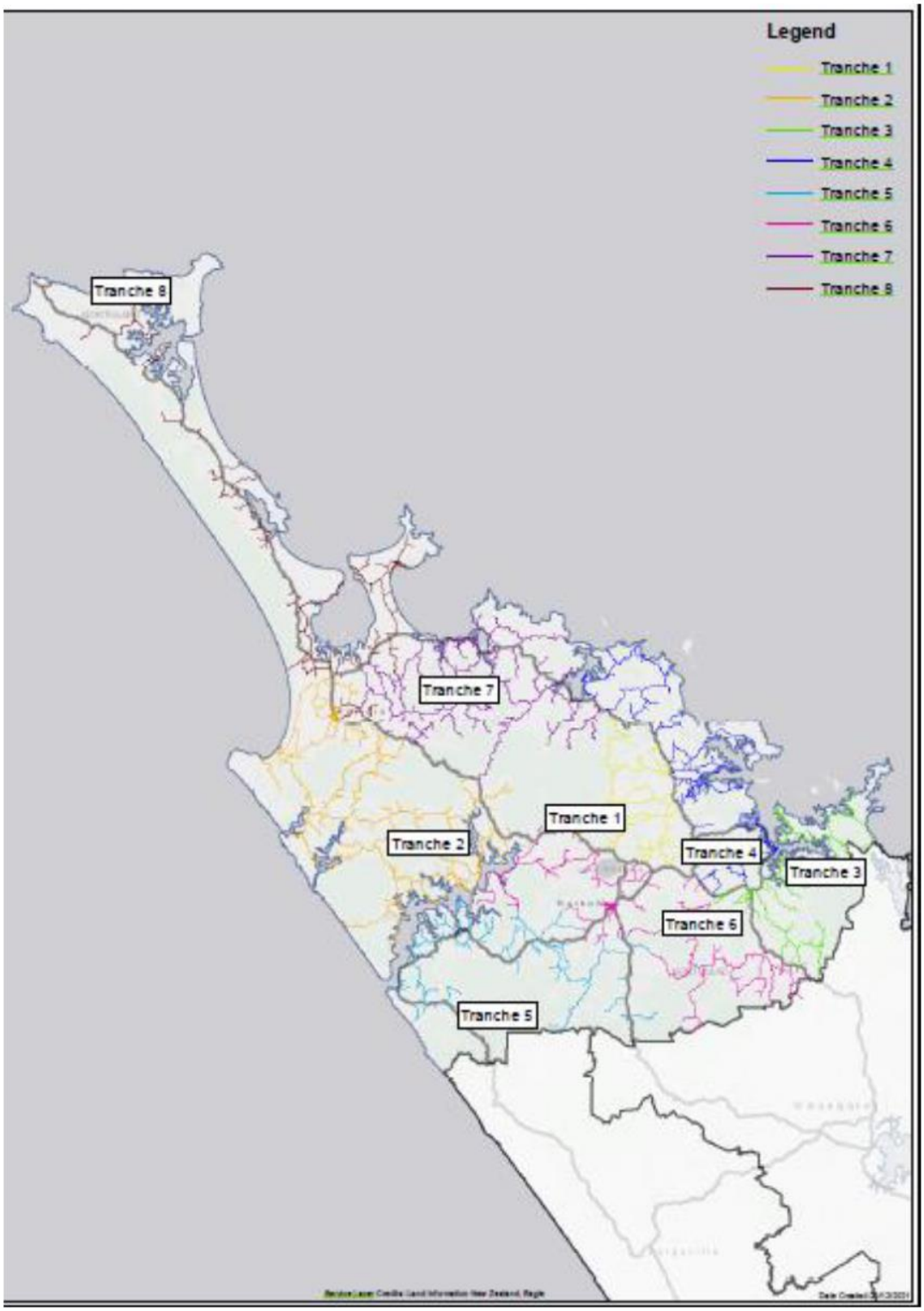
SPEED LIMIT REVIEW PROGRAM

The speed limit reviews are part of a nationwide programme under the Government's Road to Zero Road Safety Strategy. There is a need to reduce deaths and serious injuries on the road network but also, ensure that people and

goods can move around the road network efficiently. To do this we need to ensure that the speed limits on our roads are safe and appropriate for the road environment and the purpose for which the road is used.

All councils are required to review speed limits on roads within their district as part of the Government's Road to Zero National Road Safety Strategy. Northland has taken a catchment-based approach to the speed limit review program, targeting investment to catchments which contain High Risk Rural Roads, where speed management is predicted to create a demonstrable reduction in death and serious injuries from road trauma. The following images show the planned Northland catchments for 2021-2024 and more specifically the planned FNDC catchments (following page) for the same period.





The table below represents the current status of the Speed Limit Review Program in the Far North District by Catchment Area:

Catchment Area	Current Status
Okaihau-Kaeo-Waimate (Okaihau Triangle)	Complete
Kaitaia - Awaroa	Recommendations report to the Strategy & Policy Committee, March 2022
Broadwood – Kohukohu	Recommendations report to the Strategy & Policy Committee, March 2022
Te Oneroa-a-Tohe Ninety Mile Beach	Recommendations report to the Strategy & Policy Committee, March 2022
Moerewa Urban Area	Recommendations report to the Strategy & Policy Committee, March 2022
Kerikeri-Bay of Islands	Statement of Proposal to Strategy & Policy Committee June 2022 with community engagement beginning in July 2022.
Kawakawa – Russell – Old Russell Road	Statement of Proposal to Strategy & Policy Committee August 2022 with community engagement beginning in September 2022.
Whangaroa Harbour North to Awanui	Statement of Proposal to Strategy & Policy Committee first quarter 2023-2024
South Hokianga	Statement of Proposal to Strategy & Policy Committee second quarter 2023-2024
Remaining Catchments	Remaining catchments to be identified and scheduled by July 2022.

During the same period, NTA are undertaking similar speed limit review programmes in Whangarei District and Kaipara District. In addition, Waka Kotahi is reviewing speed limits on State Highways. NTA will update elected members on State Highway reviews once Waka Kotahi confirm their community engagement programme.

STREETS FOR PEOPLE FUNDING

In late November Waka Kotahi announced that applications are now open for the new "Streets for People" funding. Applications for Expression of Interest are due to Waka Kotahi on 22 February with selections being made in April 2022.

NTA staff, in consultation with the communities of Moerewa and Kaikohe have identified a strategy of proposed local area traffic management (LATM) projects that have been funded in the current LTP. The LATM study for both townships identifies a mix of treatments that will work to decrease travel speeds, improve the place value of streets including the streetscape, improve safety for pedestrians, and increase the feeling of community. Our application for Streets for People funding will seek to build on the work we currently have programmed and deliver additional LATM treatments to both communities.

OKIATO-RUSSELL CYCLE TRACK

The Bay of Islands Walkways Trust (BOIWT) has proposed a cycle trail between the Okiato Ferry and Russell. The proposed cycle track is comprised of ten sections of trail that provide a connection from the Twin Coast Cycle Trail all the way to Russell over a combination of road reserve, Department of Conservation (DOC) Land, FNDC property and private property.

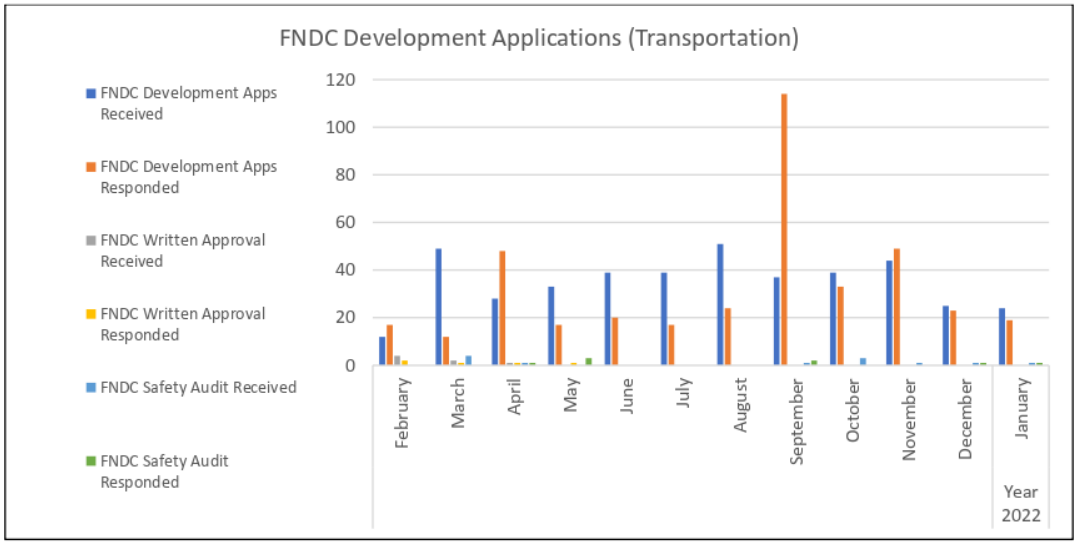
The BOIWT has submitted the documentation needed to proceed with a volunteer agreement for the first three sections of cycle trail. The group continues to fundraise and garner community support in anticipation of physical works beginning.

A Memorandum of Understanding will be created and vetted through the Community Board and Council that outlines both the final cycleway route as well as the longer-term responsibility for the operation and maintenance of the facility.

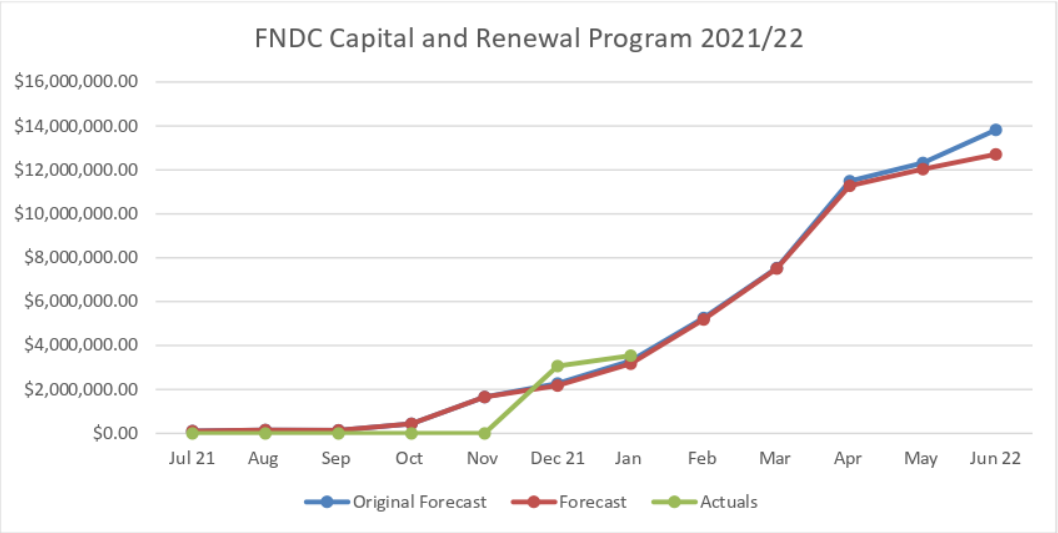
DEVELOPMENT APPLICATIONS (Transportation)

The table & graph below provides information on the volume of development applications received for transportation assessment over the past 12 months. 24 applications plus 1 safety audit were received in the month of January (vs. 12 month rolling average of 33), the Road Safety and Traffic Engineering Team were able to process 19 applications during the month, with these lower numbers reflective of the shutdown period at the start of the month.

		FNDC					
		Development Apps		Written Approval		Safety Audit	
		Received	Responded	Received	Responded	Received	Responded
Year 2021	February	12	17	4	2	0	0
	March	49	12	2	1	4	0
	April	28	48	1	1	1	1
	May	33	17	0	1	0	3
	June	39	20	0	0	0	0
	July	39	17	0	0	0	0
	August	51	24	0	0	0	0
	September	37	114	0	0	1	2
	October	39	33	0	0	3	0
	November	44	49	0	0	1	0
	December	25	23	0	0	1	1
Year 2022	January	24	19	0	0	1	1



FNDC TRANSPORT CAPITAL PROGRAMME DELIVERY



Project started in January

Category	Sub-category	Location
Unsubsidised New Footpath	New Footpath	Footpaths Loop Te Ahu - Te Hiku Sports Hub Unsubsidised

Projects to start in February and March

Category	Sub-category	Location	Expected construction start
215 - Structures Component Replacement	Bridge	Heavy Bridge Renewals (Full Network)	Feb-22
215 - Structures Component Replacement	Bridge	Scour Protection Works (Full Network)	Feb-22
216 - Bridge and Structures Renewals	Bridge	Kahikatoa M35	Mar-22
216 - Bridge and Structures Renewals	Bridge	Kaitaia-Awaroa Road (Kaitaia-Awaroa Road Culvert D41)	Mar-22
216 - Bridge and Structures Renewals	Bridge	Puhata Road (Puhata Road Bridge D50)	Mar-22

FNDC also has TIF Project approved to seal the 950m of Bayly Rd to the Waitangi Mountain Bike Park entrance. A concrete dish channel has been constructed along the length of this project and the project is on track for completion in mid-February, well before the 31 March 2022 due date.

Significant Projects

Category	Sub-category	Location	Project Title	Monthly status update	Next months expected status update
214 - Sealed Road pavement rehabilitation	Rehabs	Kerikeri Road		Investigation / Design underway	Investigation / Design underway
341 - Low-Cost Low Risk	LR Imp - Bridges and structures	West Coast Road Bridge G01	152014 - Bridges and Large Culverts Replacement - West Coast Road Bridge G01	Site walk over and final sign off. Issue Practical Completion Certificate	Physical works completed
341 - Low-Cost Low Risk	R2Z - Speed Management	Kaikohe Nth Urban Area	144226 - Safety - Speed Management via Local Area TM	Investigation / Design underway	Investigation / Design underway
341 - Low-Cost Low Risk	R2Z - Speed Management	Moerewa - Otiria & Side Roads	151999 - Safety - Speed Management via Local Area TM	Investigation / Design underway	Investigation / Design underway
341 - Low-Cost Low Risk	W&C - New Footpath	Sh11 Kaipatiki Road to York Road	152021 - BOI-Whangaroa Ward: SH11 Kaipatiki Rd to York Rd	Physical works completed	Physical works completed
Unsubsidised New Footpath	New Footpath	Footpath Loop Te Ahu - Te Hiku Sports Hub Unsubsidised	Footpath Loop Te Ahu - Te Hiku Sports Hub Unsubsidised	Construction underway	Construction underway

FNDC TRANSPORT MAINTENANCE & OPERATIONS PROGRAMME

Key points of note for the month include:

- Grading quantities were notably low, with both areas less than the normal monthly average, reflective of the seasonality of work and summer road preparation activities.
- Gravel volumes also remain low which is normal over the height of the summer season.
- The North Area has high sealed road repair quantities, reflecting improved weather conditions and the commencement of the sealing season.
- All networks have good vegetation control quantities. Completed over recent months however reducing over this holiday season.
- Road signs maintenance activities remain high across both contracts.

Unsealed road improvements included limited short lengths targeted on sections of high summer traffic routes with compaction with water carts and rollers after a lot of holiday traffic through Christmas. Grading quantities were notably low across the network reflective of the drier conditions experienced limiting the benefits achieved by grading dry loose roads, with those networks having invested heavily in grading most of the network in the preceding months.

Orakau Rd heavy metaling was completed across 4 sections of road following heavy usage from the Forestry industry, ensuring the road is set up for the wetter months when logging will still occur.

Planned works continue on the Seal extension and Rehab programmes, Maintenance activities programmed for February 2022 relate to routine sealed and unsealed maintenance activities such as sealed and unsealed potholes, signs, and drainage. Grading, metaling and mowing activities are deferred until weather conditions are more favourable. Maintenance Achievement tables for January 2022 are provided below.

North	21			
Northern Area	**Far North District Council**			
Road Length	**427.49 sealed**			
	832.86 unsealed			
Activity Description	**Prev mth**	**This mth**	**Mthly Average Prev 36 Months**	**FYTD**
Unsealed Maintenance Gravel (cum)	872.00	0.00	2446.28	12947.00
Unsealed Compacted Gravel (cum)	160.00	0.00	1021.94	160.00
Unsealed Road Grading (km)	109.76	120.29	242.33	1636.01
Wet Roll and Grade (km)	0.00	0.00	0.85	0.05
Unsealed Road Potholes (ea)	689.00	185.00	1067.42	12046.00
Sealed Road Potholes (ea)	97.00	64.00	118.00	1294.00
Sealed Road edgebreak (m)	3.00	1.00	204.42	576.00
Sealed Road Pavement Repairs (sqm)	2317.00	1630.00	1405.36	8480.00
Sealed Road Surface Repairs (sqm)	0.00	0.00	7.64	0.00
Water Cutting (sqm)	0.00	0.00	0.00	0.00
Roadside mowing (km)	45.60	55.91	124.84	844.14
Roadside Spraying (km)	393.69	0.00	143.65	1149.23
Vegetation Envelope Cleared (km)	24.89	0.47	59.28	182.66
Roadside Drainage Cleared (m)	2902.00	0.00	3148.42	18860.00
Roadside Culverts Cleared (ea)	1.00	0.00	62.83	3.00
Culvert Markers Replaced (ea)	23.00	24.00	22.39	86.00
Cesspit Grates Cleared (ea)	11.00	32.00	27.75	423.00
Kerb & Channel Cleaned (km)	9.11	0.00	0.69	11.11
Routine Surface Detritus Removed (#)	1.00	0.00	0.11	5.00
Overslip Material Removed (cum)	0.00	0.00	0.11	15.00
Routine Signs Maintenance (ea)	197.00	70.00	40.61	509.00

South	22			
Southern Area	**Far North District Council**			
Road Length	**466.05 sealed**			
	781.63 unsealed			
Activity Description	**Prev mth**	**This mth**	**Mthly Average Prev 36 Months**	**FYTD**
Unsealed Maintenance Gravel (cum)	411.00	422.00	1843.42	7091.00
Unsealed Compacted Gravel (cum)	4457.00	839.00	1187.64	28389.00
Unsealed Road Grading (km)	66.57	79.83	198.87	1547.23
Wet Roll and Grade (km)	9.93	6.36	3.12	16.29
Unsealed Road Potholes (ea)	642.00	636.00	1505.31	13025.00
Sealed Road Potholes (ea)	88.00	67.00	193.36	1072.00
Sealed Road edgebreak (m)	175.00	200.00	150.56	972.00
Sealed Road Pavement Repairs (sqm)	0.00	0.00	616.56	5083.00
Sealed Road Surface Repairs (sqm)	0.00	0.00	62.69	1258.00
Water Cutting (sqm)	0.00	0.00	92.53	0.00
Roadside mowing (km)	136.23	31.70	59.63	431.22
Roadside Spraying (km)	0.00	38.14	341.71	865.77
Vegetation Envelope Cleared (km)	2.05	2.05	7.43	44.46
Roadside Drainage Cleared (m)	2175.00	1798.00	1282.50	19790.00
Roadside Culverts Cleared (ea)	1.00	0.00	134.50	576.00
Culvert Markers Replaced (ea)	16.00	11.00	23.78	316.00
Cesspit Grates Cleared (ea)	233.00	81.00	136.69	1637.00
Kerb & Channel Cleaned (km)	55.58	0.00	14.56	55.58
Routine Surface Detritus Removed (#)	205.00	107.00	37.94	1604.00
Overslip Material Removed (cum)	0.00	0.00	0.72	1.00
Routine Signs Maintenance (ea)	199.00	223.00	96.72	1852.00

CORRIDOR ACCESS

Corridor Access Request (CAR) applications continue to be processed by the CAR team based in Whangarei. For the month of January 2022, a total of 103 Corridor Access Requests were received of which 99 were processed during the month. Apart from these 23 CAR applications were closed off this month as works have been completed.

Tabulated below is a summary of the Corridor Access Request applications received this month.

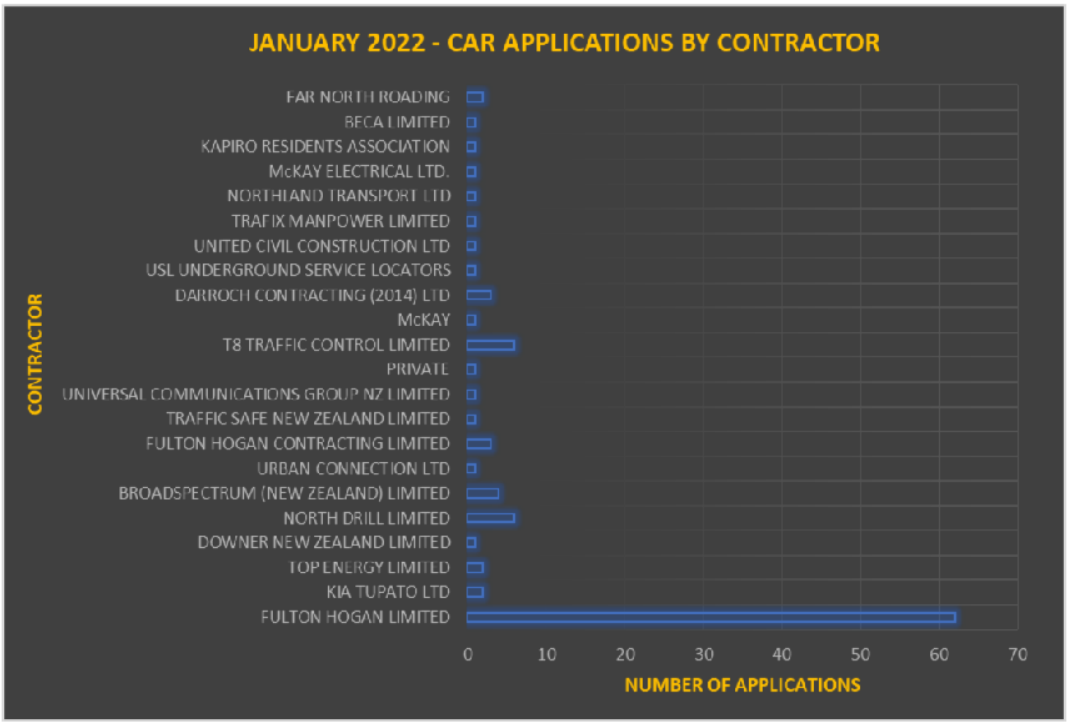
January 2022 - Corridor Access Request				
Applications Received		Applications Processed		Pending
Type	Applications	Approved	Cancelled	
Event	3	2	0	1
Excavation	48	21	26	1
Non-Excavation	52	44	6	2
Emergency	0	0	0	0
Total	103	67	32	4

CAR's pending relates to those submitted in late January and those requiring further information and approval. The CAR team are also working on the Far North Rally corridor access application and this should be finalised in February.

The other pending CAR's will be attended to in February 2022. A total of 32 CAR's have been cancelled for the following reasons:

1. Works on State Highway – CAR to be submitted to NZTA
2. Works have been cancelled by applicant
3. Service locates through B4Udig for planning purposes only, no CAR required

The graph below illustrates the CAR applications submitted by organisation. Majority of the CAR applications in January have been submitted by Fulton Hogan.



HOKIANGA FERRY (KOHU RA TUARUA)

Revenue & Patronage

Revenue received from ticket sales for January was down approximately 30% on the previous year. Northland joined the rest of New Zealand by moving down from Red to Orange on 20 Jan 22. The relaxed settings were short-lived, following confirmation that the Omicron variant was transmitting in the community, the whole of NZ moved to Red.

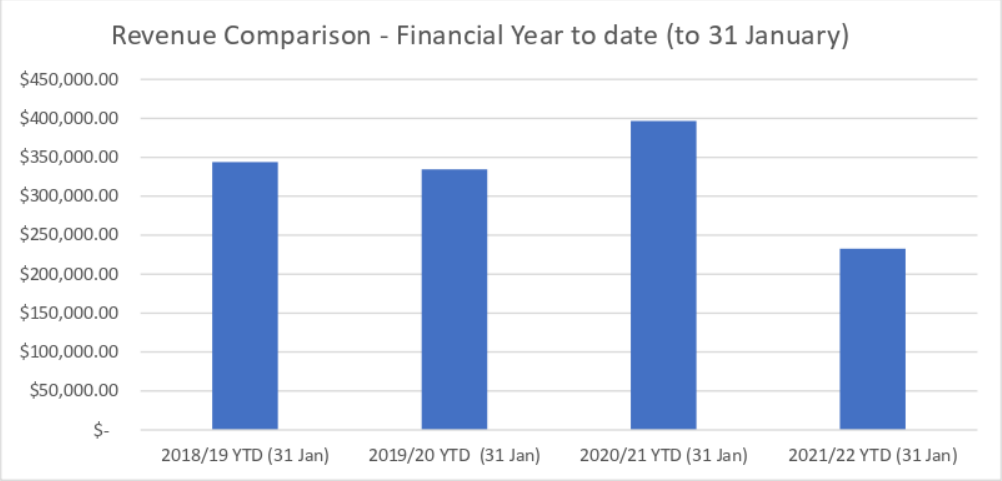
Red and Orange settings are more restrictive than the Alert Level 1 settings in Jan 21 and hence this, combined with heightened fears and sensitivities continue impacting travel patterns and demand for the ferry service.

Tabulated below is the revenue comparison for the same period last year:

January 2022	January 2021	Difference
$60,082.61	$86,302.78	$26,220.17

The graph below provides a comparison of revenue received for the first 7 months of this financial year (to 31 January 2022), comparing the previous 3 years for the same period.

Note that the revenue received for 2020/21 financial year was much higher than normal, due to a surge in domestic tourism post-lockdown.



H&S, Risks and Service Information

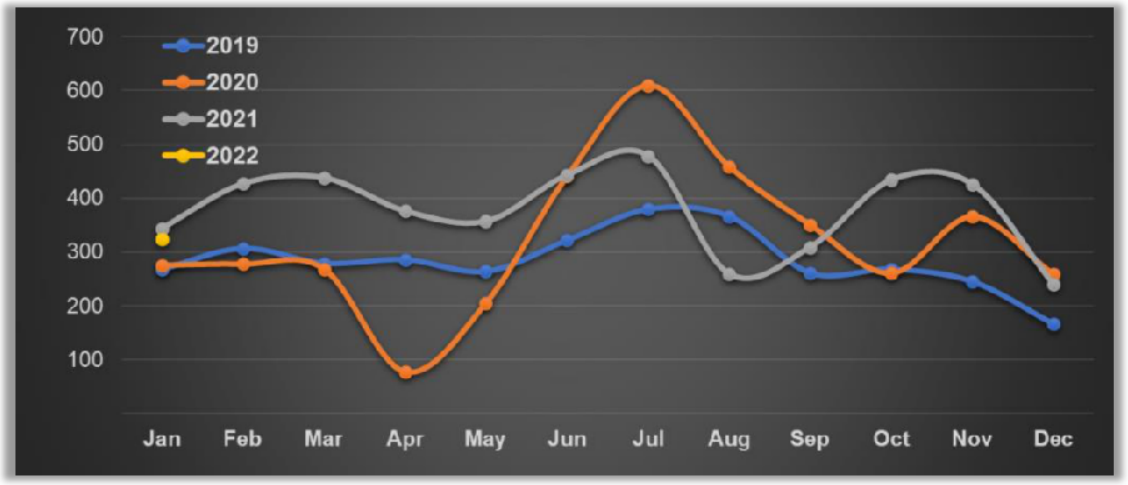
- There were no mechanical or weather-related interruptions to the service during the month.
- There were two incidents, accidents or near misses reported for the month. Both incidents were under investigation at the time of writing. Details as follows:
    - 20th January - An intoxicated passenger was observed attempting to give away or sell cannabis to other passengers. This passenger had an altercation with the passengers of another vehicle.
    - A Crew member observed a youth etching/graffitiing the window frame of the passenger saloon. The skipper intervened asking the youth and his 14 friends to leave the saloon which they complied with but only after threatening and abusive language. One of the youth's parents intervened and denied the accusation of graffiti despite the evidence. Shortly after, an apple core was thrown at the crew member and some of the youth's associates began threatening her.
- The Contractor has consulted with staff on vaccine requirements based on role-based risk analysis and is shortly to commence roll-out. The Contractor will keep the Principal informed
- 96.6% of scheduled January sailings departed on time and there were no after-hours emergency callouts this month.

THE CUSTOMER EXPERIENCE

The cross-department project to review the customer experience process continues. February's focus is reporting and the first discussion around this commences on Wednesday 16th February.

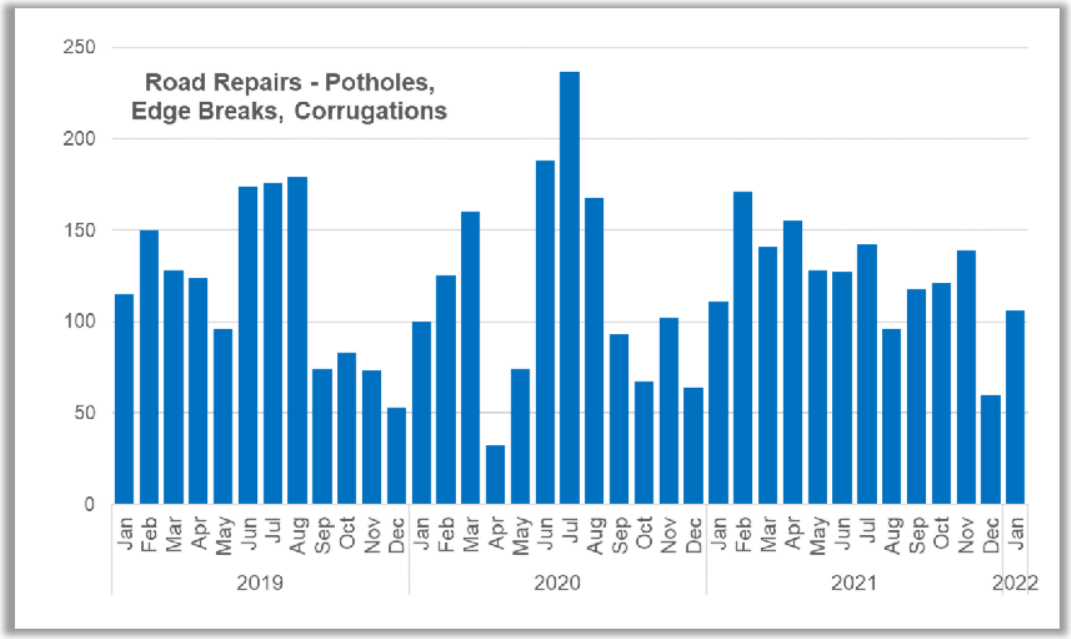
Requests for Service

January 2022 is similar to the previous three starts to the new calendar year. More specifically, the increase from December consists almost entirely of requests relating to the category of 'Potholes, Edge Breaks, Corrugations'. This is to be expected with reduced network activity during the Summer break combined with increased traffic volumes. Also, had it not been for the year on year increase in requests under the 'Roading Correspondence' category, the overall number of requests would have been at the lowest levels in recent years.



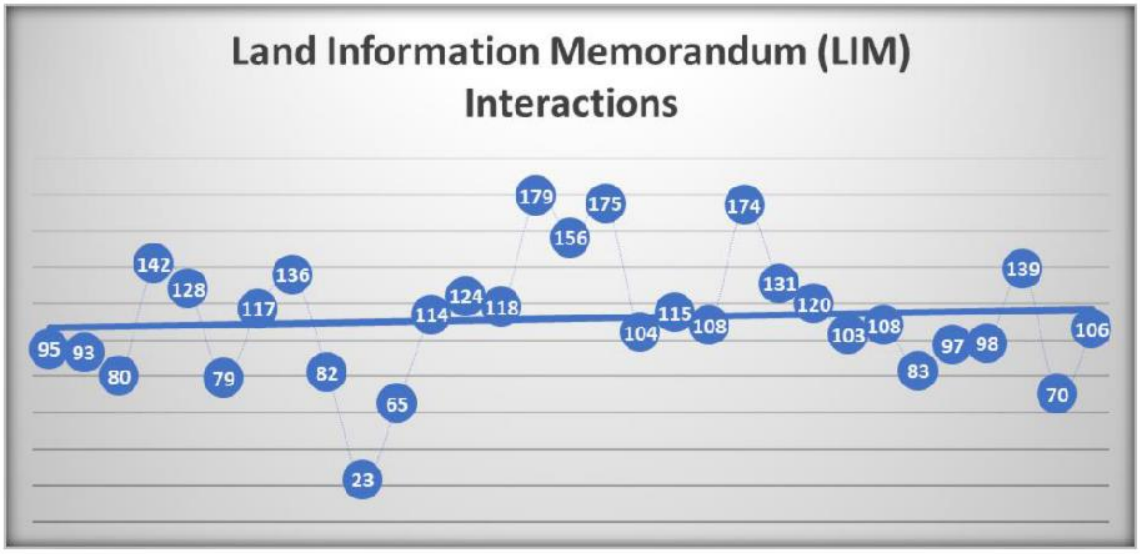
Highest Single Category

Just under one third of all requests are for the usual category. On average this is slightly lower than the normal portion of total requests at this time of year.



Land Information Memorandum (LIM)

There is evidence that the number of LIMs are increasing again, and the information being sought is expanding. Work is underway to deduce the parameters of who should be providing information and where it may come from.



PROJECT DELIVERY

Managing delivery of the capital works programme (new works and renewals) as defined by the Long-Term Plan.

EXECUTIVE SUMMARY

A steady and productive month with projects awarded ready for construction in 2022.

Green	Strong probability the project will be delivered on time, within budget and with acceptable quality.
Amber	Good probability the project will be delivered on time, within budget and with acceptable quality. Schedule, budget, resource, or other changes may be needed.
Red	Probable that the project will NOT be delivered with acceptable quality without changes to schedule, budget, resources and/or scope

Completed October 2021
Project Name: Paihia WWTP Upgrade - Alkalinity Adjustment Project Project Phase: Planning and Design – Chemical Dosing
Completed December 2021
Project Name: Opononi New Water Source - Smoothy Road Bore Project Phase: Pre-Implementation of Stage 2
Project Name: Kerikeri WWTP & Reticulation Project Phase: WWTP Construction

Project Name: SOUTHERN ANIMAL SHELTER **Project ID: 261012**

Project Phase: Tender

Status Item	Current Status	Prior Status	Summary
Overall Project Status	**Amber**	**Green**	Tender evaluations being carried out
Scope	**Green**	**Green**	Scope confirmed
Schedule	**Green**	**Green**	Schedule confirmed
Cost	**Amber**	**Amber**	Cost will be identified during tender evaluation process
Project Risk	**Amber**	**Amber**	Weather, contractor availability, material availability, increase in material costs, Covid-19, removal of remaining outbuildings from site, security of materials on site prior to and during construction

Monthly Summary:

Tender evaluations being carried out by tender evaluation team

Key Project Risks	Mitigation of Risk
Funding	Ensure detailed planning is carried out to capture all detail require, learnings from Construction of Northern Animal Shelter is an advantage in making sure all aspects are captured
Non-compliance	Current structures non-compliant, existing building to be demolished and new kennels to be constructed to comply with Animal Welfare Acts.

Key Project Milestones	Expected	Status	Comment
Confirm concept plan	End September	On track	Concept Plan Confirmed
Final Design	Mid December	Confirmed	Building Consent Granted
Tender Award	Mid-June 2021	Delayed	Tender evaluations being carried out
Construction	Mid to Late July 2021	Delayed	Construction expected to commence April 2022

Project Budget Status

Approved Budget	Actual Spend to Date	Forecast Total Spend
$1,907,816.00	*$90,717.90*	*$1,907,816.00*

Project Name: KAITAIA WATER – SWEETWATER BORE AND PIPELINE **Project ID: WAP0256**

Project Phase: Concept Stage

Status Item	Current Status	Prior Status	Summary
Overall Project Status	**Amber**	**Amber**	Physical Works contract for SP1 was awarded to Ventia and the Contract was signed on 03 June 2021. SP2 Notice to Proceed was issued to Ventia on 06 September 2021. Physical Works on SP1 started by Ventia on 29 July 2021. Physical Works completion date is scheduled for 04 May 2022. Construction has progressed well with approximately 12700m of pipe installed by means of directional drilling along Bonnetts Road, Gill Road and Sandhills Road and open trench installation over the private farmlands.
Scope	**Green**	**Green**	Scope was amended to allow for new alignment of pipeline route as SP2.
Schedule	**Amber**	**Amber**	Physical Construction completion date scheduled for May. Commissioning scheduled for May/June 2022.
Cost	**Green**	**Green**	Estimate at Completion is within approved budget.
Project Risk	**Amber**	**Amber**	Easement Agreement with Elbury Holdings. Drilling activities and trenching work is SP2 ground conditions. Covid 19 outbreaks and Level Changes and delay to get access to Elbury Holdings farm – Delay costs and Extension of Time Requests. Water Treatment Plant connection/configuration/upgrade works.

Monthly Summary:

Monthly COVID-19 Alert System which influenced the Physical Construction activities during January:

- 23 January 2022: All of NZ and Far North moved to the RED setting under the COVID-19 Protection Framework (aka traffic light system).
- Construction works for January 2022 progressed well considering the short work month and lower staffing levels due to annual leave. The total amount of transfer pipeline in the ground is now approximately 12,700m. Ventia now has 1 drill rig on site currently installing pipe at the town end of the alignment towards the Water Treatment Plant along Norman Senn Avenue. The drill rig still has some gaps to fill in the alignment where drilling was previously challenging.
- Works at the bore site is ongoing with the electrical works – installation of the fitted out electrical container and transfer pump station electrical works. The pump for PW2 was installed on Feb 1st and the pump that has been in PW1 was removed for servicing.
- Top Energy has upgraded the Bird Road power lines and has installed power poles through to the end of Bird Road. They will be back in March to liven the lines now that the transformers and LV cable ducts are installed on site.
- The trenching of pipe is now completed through the Kings Farm and the crew are just finishing off installing valve chambers followed by remediation works. The move into the Brereton property in Feb to direct drill the remaining pipeline to avoid deep trenching.
- The Bonnetts Rd Pipe Bridge piles were drilled (x4), reinforcing inserted, concrete poured, and PIT tested. Next the pile caps will be constructed and then the finished bridge will be lifted and fixed into position.
- An update of the project to date will be sent to Iwi representatives in February.
- Russell Garton of Garton and Associates and Northland Valuers were appointed in parallel to provide a compensation assessment of the required easement over the Elbury Holding Limited property. Site assessment was completed in December and awaiting the valuation reports early in 2022.

Key Project Risks	Mitigation of Risk

Covid-19	A looming Omicron outbreak can affect the project by having a large portion of staff away for weeks at a time with minimal replacements. This could affect the progress and programme. Financial Impact of delay.
Water restrictions	There is a risk that Council may choose to restrict water for construction purposes during a drought. This is to minimise the reputation risk of the community being under water restrictions and the Contractor using water for drilling purposes.
Property and Easements agreements: Elbury Holdings - Compensation amount for Easement and Injurious Affection to Elbury Holdings.	Continued focus to project team to resolve Formal process using Local Government Act Independent Valuers to complete valuation reports and Easement agreement to be finalised.
Completion date is scheduled for May 2022.	Fast-track scheduling Tracking long lead items
Drilling work through hardpan and high-density tree root areas	The construction team had difficulties drilling in two main areas along the alignment. Those were abandoned so that other progress can still be made while methodologies for those areas could be re-planned.
Physical construction: Condition of borehole 1 pump at riser pipe. Reinstatement over private properties	Condition of borehole 1 pump at riser pipe. To be assessed by pump specialist and await recommendations. Ongoing engagement with landowners.
Encroachment over private properties along Bonnetts Road, Gill Road and Sandhills Road.	As Built to advise impact. Potential affected landowners already contacted and agreed on route.

Key Project Milestones	Expected	Status	Comment
Practical completion	04 May 2022	Planned	Revised Baseline Programme submitted after receival of SP2 design by Ventia. Programme approved by Project Team.
Extension of Time Requested	tbc	NTE submitted	NTE of Notification of delay to get access to Elbury Holdings farmland. Ventia and its subcontractor FNR have made every effort to mitigate the delay and minimise downtime.
Water Treatment Process at Kaitaia Water Treatment Plant	tbc	Water Quality tests to be performed when electricity is connected to bore pumps.	Far North Water leading this process. Water Quality tests required at Sweetwater bores to determine process

Project Budget Status		
Approved Budget	Actual Spend to Date	Forecast Total Spend
$15,372,350	*$9,369,720*	*15,257,966*

Project Name: MONUMENT HILL DEEP BORE PROJECT

Project Phase: Stage 2 Drilling - Construction

Status Item	Current Status	Prior Status	Summary
Overall Project Status	**Green**	**Green**	Stage 1: Bore Design and Quality Testing (Complete) Stage 2: Sustainable Yield Assessment & Consenting to provide a sustainable supply of highly secure potable water for the Kaikohe community (In progress – Consent outcome outstanding) Stage 3: Reticulation and Electrical Design (In progress) Consent Application – Consent Application to utilise both the shallow and deep bores has been submitted at NRC on 02 February 2022. Detail design for stage 3 is underway and the Procurement Plan has been approved for direct award to Ventia. Physical Construction of Stage 3 planned to start in March 2022.
Scope	**Green**	**Green**	The physical works for stage 3 will entail installing a pump and laying a trenched pipe to connect to the Monument Hill Water Treatment Plant. Electrical upgrades at the water treatment plant and public infrastructure will be required. Detail design is in progress. Water Quality tests to be done to confirm water treatment process.
Schedule	**Amber**	**Amber**	Consent Application submitted early February 2022. Stage 3 design is in progress and construction start date is planned for March 2022. Covid lockdown have delayed the project. Stimulus Grant program scheduled completion extended until **June 2022**.
Cost	**Green**	**Green**	Project on budget.
Project Risk	**Amber**	**Amber**	Landowner agreements to be finalised. Sustainable yield delivery of around 350m3/day lower than expected. Consent obtained from Waikotihe Trust subject to certain conditions. Timeline subject to approval of Resource Consent. Assuming that NRC will not request further information or notify the application, it will be processed and a decision made within 20 working days. Covid Lockdown level restriction is delaying the project. Water Quality – Water Test to be done to confirm treatment process.

Monthly Summary:

FNDC has decided on the preferred pathway with respect to moving the project forward and developing a consenting strategy encompassing the new and the existing bores:

- An increased annual take;
- More resilient bore takes utilising the existing bores and the deeper bore with summer/winter usage; and
- With minimal impact on the spring flows.

The project team has met with the Waikotihe Trust to explain the modelling that was done and received consent to submit the Resource Consent application to use both existing and new bore for delivery with certain monitoring conditions.

Detailed design for stage 3 has progressed and the mechanical design for the headworks and construction and manufacturing drawings are 99% complete. The physical works for stage 3 will entail installing a pump and laying a trenched pipe to connect to the Monument Hill Water Treatment Plant. Electrical upgrades at the water treatment plant and public infrastructure are required to deal with the new flows and treatment regime.

Water Quality testing with laboratory and data analysis are the next stage to confirm the treatment process as per the preliminary test results and detail design. The actual construction will start after tender evaluation and is planned to start in March 2022.	
Key Project Risks	**Mitigation of Risk**
Consent Duration. Delay for Resource Consent outcome and complete project before summer 2022 and DIA deadline of 30 June 2022.	Timeline subject to approval of Resource Consent. Assuming that NRC will not request further information or notify the application, it will be processed and a decision made within 20 working days.
Landowner agreements to be finalised	Conditions and expectations from Landowner are being assessed by FNDC and communication is ongoing.
Water Quantity	The sustainable yield from new bore determined to be around 350m3/day. This is lower than expected.
Water Quality	WWLA performed water quality tests on exploratory bore and did not smell and was clear. The dissolved iron concentrations were identified as a water quality risk and needs to conform to DWSNZ standards. Further tests are recommended as next stage.
Existing Water Treatment Plant	Amendment to existing Water Treatment Plan and electrical requirements to new setup remains a cost and timing risk. Detail design is in progress and project team is working with Far North Waters to get best solution.

Key Project Milestones	**Expected**	**Status**	**Comment**
Resource Consent outcome	Bets case – 20 Working days (8 March 2022). Worst case 12 weeks after submission (03 May 2022)	Submission acknowledges by NRC - 08 February 2020.	On the assumption that it will be a non-Notified application.
Priced Schedules from Ventia	End of February 2022	Awaiting detail design, drawings, schedules and specifications from WWLA	Detail design subject to final water quality tests to be performed.
Tender evaluation	Middle March 2022		
Construction Start	End March 2022		
Completion and commissioning	June 2022		

Project Budget Status		
Approved Budget	Actual Spend to Date	Forecast Total Spend
$1 180 000	*$400 000.00*	*$1 180 000*

Project Name: **BOI SPORTS COMPLEX**

Project Phase: Concept Stage

Status Item	Current Status	Prior Status	Summary
Overall Project Status	**Green**	**Green**	The planning stage and design stage is underway. From here (pending consents) the project will move into delivery stages, focussing on a staged design delivery and targeting early construction activities which can be commenced as a priority.
Scope	**Green**	**Green**	To manage the development and delivery of a Waipapa Sport Hub on the land acquired. The development must meet stakeholder, community, and sporting code requirements as well as budget constraints.
Schedule	**Amber**	**Amber**	Resource Consent applications to the NRC and FNDC were submitted on the 11 November 2021. Resource consent from the NRC was granted on the 13 December 2021. We have been given confirmation that the FNDC consent has been publicly notified is due to close on March the 6th. Notified Resource Consents take around six months to process, depending on the complexity, significance and the level of contention involved. This will impact the overall programme. There is risk of the decision being appealed. Works cannot commence until any appeals have been addressed and consents have been confirmed. One neighbour has indicated that they may appeal the decisions. We are working together with them to address their concerns. An additional resource consent will be required for the water take once the water bore investigations have been completed.
Cost	**Green**	**Green**	The project is running within budget.
Project Risk	**Amber**	**Amber**	• Notifiable Resource Consent processing times and requests for additional information / submissions • Any changes to approved concept layout would be a risk to the project. • Meeting procurement objectives results in a longer procurement process. • Covid 19 delays to SH10

Monthly Summary:

SH10: Is due to be completed January 2022 based on the availability to procure material for the lighting install.

On Site: The water bore has been completed and the pumps have been procured for the next phase, water testing and water consents. This has been delayed due to supply chain.

Resource Consent:

- Application was re notified by FNDC and final public submissions period has been extended to 03 March 2022.
- The NRC application was granted on the 13 December 2021.

Communications & Engagement

- Direct engagement with stakeholders (including adjacent neighbours) to inform design changes and resource consent documentation. Individual meetings have been offered to adjacent neighbours and interested parties on lodgment of the resource consents, but no one has yet taken up this offer.
- The Planner and Landscape Architect met with the neighbour who indicated that they may appeal the decisions. We will continue to work with them to attempt to mitigate their concerns, namely relating to landscaping.

In early December, Ngāti Rēhia facilitated a workshop with Working Group members and FNDC staff to develop the name of the facility. The output name is Te Puāwaitanga; A home of belonging, play and growth.

Key Project Risks	Mitigation of Risk
Notifiable Resource Consent	The consent duration
Covid or natural disaster (Civil defence emergency) disruptions	Adaptable Business Continuity plans
Market capacity to deliver	Procurement planning to determine market capability and resilience.
Detail Design	Adequate resources capable and able to deliver on time.
Community Engagement	Agreement of a Working Group to steer Matters.
Downstream Impact – Ongoing future operation	Value Engineering during design
Supply Chain – getting services and materials needed	Early procurement
Programme Governance – Conflict of Interest	Set up Mitigation Plans

Key Project Milestones	Expected	Status	Comment
Initiation	03/08/2020	Completed	
Resource Consent	Nov 2021 – June 2022	Planning	FNDC RC lodged as a notified consent – awaiting public notification and submissions. Re Notified and extended until 03 March 2022. NRC RC consent granted.
Concept Design	Jul 2021	Completed	
Developed Design	Nov 2021 - March 2022		Procurement phase and scope finalisation
Detailed Design	Nov 2021 – March 2022		
Building Consent	March 2022		BC application can be submitted but won't be released until the RC has been approved
Procurement	March 2022 - April 2022		
Construction	tbc		RC will dictate the construction start as well as earthworks season

Project Budget Status		
Approved Budget	Actual Spend to Date	Forecast Total Spend
$9,499,669	*$607,371*	*$8,898,298*

Project Name: **KERIKERI DOMAIN REVITALISATION**

Project Phase: Concept Stage

Status Item	Current Status	Prior Status	Summary
Overall Project Status	**Green**	**Green**	Project has moved into construction documentation for all areas. First projects moving into construction. Demolition of existing basketball court and Skatepark completed. Stormwater infrastructure nearing completion. Skatepark construction commenced. Soft opening of lower bowl area and timber vert ramp took place Friday 10th December. Surrounding landscape has been made good. Great progress in January. Project looking at completion Feb/early March. Basketball construction commenced. Basketball court asphalt laid with fencing complete. Perimeter paths and tidying up of site well advanced. Furniture installed. Project completion February. Playground Construction Documentation delayed due to additional specialist scope of attenuation stormwater required by FNDC. Documentation now completed and in discussion with Procurement team regarding contractor engagement.
Scope	**Green**	**Green**	Scope has been agreed by key stakeholder groups and has been developed into a concept layout plan that speaks back to the master plan for the reserve. The various elements identified in the concept layout design have been designed.
Schedule	**Amber**	Amber	**Demolition -** Demolition completed by TARMAC. **Skatepark Construction -** Skatepark construction well advanced. Soft opening of lower bowl area and timber vert ramp occurred Friday 10th December. Skate bowl and street skate section under construction for completion in Late February/ Early March **Basketball** Basketball construction commenced. Pavement poured. Asphalt laid. Fencing installed, BB hoops installed and line marking complete. Construction to be completed in February Site coordination with Circle D Construction and Buildflex ongoing to coordinate the two site builds **Playground** PLAYCO design fixed. Structural and Civil documentation currently completed in January. Delayed due to additional stormwater attenuation documentation and new survey work undertaken of newly built works. Program delayed due to COVID and lockdown. There will be delays on the delivery of the playground due Level 4 shut down on projects in AKL affecting Kerikeri delivery / Install.

			Likely commencement of works as early as possible pending contractor availability. Procurement underway for February. **Park path and softscape -** Park path associated with Basketball and Skatepark nearing completion. Playground shared path to be completed with this contracted works. Rest of loop on HOLD **BBQ areas -** Project on HOLD **Fitness Equipment -** Project on HOLD **Lighting -** Project on HOLD
Cost	**Red**	**Red**	Discussion taking place with FNDC and working party group. MBIE funding not adequate to meet vision of Kerikeri Domain. Project committed to delivery of Basketball court, Skatepark and Playground and associated paths Latest COVID levels will have an effect on materials pricing and deliverable dates. Contractor availability may also affect pricing.
Project Risk	**Amber**	**Amber**	• COVID. Lockdowns and financial and program implications • Major changes to the concept layout plan would be a risk to the project. • Meeting procurement objectives result in a longer procurement process. • Budgets not meeting the current market for construction. • Lead times and market competition for obtaining materials and equipment. • Working with contractors that are not experienced in large builds. • Site build. Uncertainties (e.g., earthworks) relating to existing site. • Infrastructure required that was not allocated for in original budget. • Contractor availability for Playground construction. Short program may influence pricing. No competition.

Monthly Summary:

- Skatepark construction well advanced.
- Basketball construction well advanced.
- Pathway construction well advanced.
- Playground civil/structural procurement to start February.

Key Project Risks	Mitigation of Risk
COVID – Delay to program and escalation of costs	Maintaining good communication with contractors and stakeholders
Budget not aligned to vision. Hidden site costs e.g. earthworks	Reviewing works to attain the best overall outcome for the Kerikeri Domain as a whole
Market capacity to deliver	Procurement planning
Community Engagement - Community buy in is KEY, the community might argue they did not want it in the first place	Agreement of a Working Group to steer matters
Downstream Impact – Ongoing future operation costs	Value Engineering during design

Supply Chain – getting services and materials needed			Early procurement, Covid Levels will affect the delivery dates
Key Project Milestones	**Expected**	**Status**	**Comment**
Initiation	03/08/2020	Completed	
Community Scoping	Aug-Jan 2021	Completed	
Developed Design	Feb-Apr2021	Completed	
Detailed Design	May-Aug 2021	Completed	
Procurement	July 2021-Jan 2022	Ongoing	Playground construction procurement to commence once documentation completed
Construction	Aug-2022	Ongoing	

Project Budget Status		
Approved Budget	Actual Spend to Date	Forecast Total Spend
$ 3M	*$ 1.82M - Design fees, Construction*	*$ 3M*

Project Name: **FREESE PARK COASTAL EROSION – DESIGN AND CONSENTING**

Project Phase: Consultation

Status Item	Current Status	Prior Status	Summary
Overall Project Status	Green	Green	Consultation has been completed. Decision made regarding design approach based on outcome of consultation and engineering & planning advice. Negotiations underway with private property owner regarding design and maintenance responsibilities.
Scope	Green	Green	While still in scope, the consultation phase has required more time than anticipated. Archaeological assessment has been completed which is outside the scope. Progressing this project beyond resource consent lodgement is outside the scope. However, we are likely to have sufficient budget to assist in finalising agreements with the property owner at 9 Freese Park Rd and to advance the design towards detailed design.
Schedule	Amber	Amber	Delay due to set up of initial hui with hapu and extended public consultation timeframe due largely to Covid restrictions.
Cost	Green	Green	Additional time on consultation has led to a cost over-run on this item but we currently feel that this can be accommodated within the wider project budget. There are out of scope items required to complete this project that have been highlighted in correspondence – these out-of-scope items will require additional funding. See footnote below.
Project Risk	Green	Green	As per below

Monthly Summary:

Progress has been made on the design for consent. Discussions are underway with the owner of 9 Freese Park Rd regarding the preferred option and an easement agreement is about to be drafted for discussion.

We are aiming to lodge resource consent in Feb 2022.

Report to the February Council meeting due to take place on the 24th of February.

Key Project Risks	Mitigation of Risk
Integrated erosion management solution cannot be agreed upon	Early and clear consultation with key stakeholders including owners of properties bordering the public spaces.
Delay in programme due to issues with Resource consenting.	Early discussions with NRC. Preliminary planning assessment to identify potential planning constraints.
COVID lockdowns result in delays to project	Build contingency into programme. Respond to project needs via virtual means where possible.

Key Project Milestones	Expected	Status	Comment
Presentation to Council of work to date including options considered and proposed consultation strategy.	Mid May 21	Completed	Approval to proceed to Engagement phase

Consultation completed – issue Consultation Report	November 21	Completed	
Provide project update and report on outcome of consultation to elected members	February 22	Deferred	In preparation
Lodge Resource Consent	February 22	Underway	Preparation underway

Project Budget Status		
Approved Budget	Actual Spend to Date	Forecast Total Spend
$199,404	*$148,962*	*$199,404*

TOURISM INFRASTRUCTURE FUND

The Tourism Infrastructure Fund (TIF) provides up to $25 million annually to develop tourism-related infrastructure that supports regions facing pressure from tourism growth

Project Name: TIF TOILETS **Project ID: 141539, 141537, 141538, 141581**

Project Phase: Procurement/Construction

Status Item	Current Status	Prior Status	Summary
Overall Project Status	Green	Green	**Mitimiti:** Construction is completed at Mitimiti & CCC achieved; Toilet is Operational
	Green	Amber	**Opononi:** Construction is completed at Opononi & CCC achieved; Toilet is Operational
	Red	Amber	**Waitangi:** Private sewer line is old and requires replacement, sourcing financial & legal options to upgrade so we can deliver toilet block. Waitangi Trust believe the cost to upgrade sits entirely with FNDC.
	Green	Amber	**Haruru Falls:** Construction is completed and handover to operations completed, Toilet is operational
Scope	Amber	Green	**Waitangi:** Scope is clear and approved by Stakeholders, however sewer line upgrade was not part of original scope **Mitimiti:** Construction complete. **Opononi:** Construction complete. **Haruru:** Construction complete.
Schedule	Amber	Green	Projects currently tracking behind programme due to consultation and legal agreement delays. An extension of time has been granted from MBIE until Dec 2021, Covid has also played its part in the programme delays.
Cost	Amber	Green	Mitimiti, Opononi & Haruru completed within or under budget any savings will go to Waitangi. Waitangi has not yet been out to market, but QS shows we have a shortfall, but we may have savings at other sites which can be re-allocated to Waitangi
Project Risk	Amber	Green	Covid will cause large delays to all programmes of work which have already been delayed due to legalising access to all sights. These projects will not be completed in the timeframes initially set out and there is no opportunity to bring them inline, so we have accepted this and asked for funding extensions. Waitangi Toilet will require Archaeological monitoring and there is potential for delays during the construction programme at this known historical site. Services

	connections at Waitangi look problematic and will be costly to resolve.

Monthly Summary:

Waitangi – To provide cost surety we will provide a revised procurement plan which will look at Direct Award to preferred supplier. This will be presented to Tender Panel when completed.

Key Project Risks	Mitigation of Risk
Covid lockdown will lead to programme delays.	Accept & Monitor.
Waitangi Toilet - Budget	Budget shortfall may be able to be address with savings from other TIF Toilet builds and request for unbudgeted funds
Waitangi Toilet – Service Connections	Water, Sewer & Power costs out of line with QS, further budget implications

Key Project Milestones	Expected	Status	Comment
Waitangi Tender	October 2021	On hold until funding shortfall address	Delayed due to sewer line issues

Project Budget Status		
Approved Budget	Actual Spend to Date	Forecast Total Spend
$1,070,000 (combined)	*$829,072.42*	*$1,070,000 (combined)*

AUGUST 2019 TIF R4 PROJECTS

	Project	Status	Notes
1a	Waipapa Toilet Capacity Upgrade (Soakage Field)	Completed	Completed.
1b	Waitangi Jetty Toilet Capacity Upgrade (BOI Yacht Club)	Completed	Completed.
2	Pungaere Road Seal Extension	Completed	Completed.
3	Cable Bay Carparks	Approved with Funding Agreement	MBIE have extended completion date to 31 March 2022. All three carparks are now awarded for construction. Contractor targeting completion in March.
4	Taipa Beach Pohutukawa Protection	Completed	Completed.
5	Paihia Beach Toilet Enhancement (Outdoor Shower/Drainage)	Completed	Completed.
6	Stone Store Lighting	Approved with Funding Agreement	Contractor is working with Heritage New Zealand to coordinate installation. Meeting scheduled in February to finalise installation plan.
7	Freedom Camping Operational Plan Study Grant	Completed	Completed
8	District Boat Ramp Operational Plan Study Grant	Completed	Completed.



Pungaere Road Seal Extension

AUGUST 2019 TIF R4 FUNDING

Project		Community	FNDC	MBIE	Total
1a	Waipapa Toilet Capacity Upgrade (Soakage Field)		$120,000	$254,600	$424,600
1b	Waitangi Jetty Toilet Capacity Upgrade (BOI Yacht Club)	$50,000			
2	Pungaere Road Seal Extension		$793,584	$793,584	$1,587,168
3	Cable Bay Carparks		$238,136	$238,136	$476,272
4	Taipa Beach Pohutukawa Protection		$8,000	$8,000	$16,000
5	Paihia Beach Toilet Enhancement (Outdoor Shower/Drainage)		$14,300	$14,300	$28,600
6	Stone Store Lighting		$13,750	$13,750	$27,500
7	Freedom Camping Operational Plan Study Grant		$37,500	$37,500	$75,000
8	District Boat Ramp Operational Plan Study Grant		$37,500	$37,500	$75,000
Totals		**$50,000**	**$1,262,770**	**$1,397,370**	**$2,710,140**

APRIL 2021 TIF R5 PROJECTS

Project		Status	Notes
1a	SMART CITIES: Wi-Fi	Approved with Funding Agreement	The Wi-Fi33 network hardware has been confirmed by 'Nothing but Net' team. Installation of the Paihia, Russell and Opua Wi-Fi is targeted for March 2022.
1b	SMART CITIES: Smart Bins		Smart Bin locations have been confirmed for Paihia, Russell, Kawakawa, Opononi and Pukenui wharf. Due to shipping congestion at the Auckland Port, the delivery date has been pushed out to March/April 2022.
2	Lake Manuwai Toilet		Prefabricated Dry Vault Toilet is scheduled to come out of the factory end of May. Targeting installation late May/June 2022.
3	Te Paki Stream Toilets		Prefabricated Dry Vault Toilet is scheduled to come out of the factory end of May. Targeting installation late May/June 2022.
4	Te Paki Dump Station		Facility is fully operational. Carpark enhancement will coordinated with Te Paki Stream Toilet installation.
5	Sealing of Bayly Road (Waitangi Mountain Bike Park)		Trees have been removed, dish drain, scruffy dome and culvert upgrade has been completed. Metal built-up for shoulder widening completed. Stabilisation scheduled for Feb 2022. Sealing to be completed before end of March 2022.



Lake Manuwai Toilet Floor Plan Concept



Smart Bin Wrap Example

APRIL 2021 TIF R5 FUNDING

	Project	FY	FNDC	MBIE	Total
1	SMART CITIES: Wi-Fi	2021/22	$93,153	$93,153	$186,306
2	SMART CITIES: Smart Bins	2021/22	$53,763	$ 53,762	$107,525
3	Lake Manuwai Toilet	2021/22	$86,840	$86,840	$173,680
4	Te Paki Stream Toilets	2021/22	$128,150	$128,150	$256,300
5	Te Paki Dump Station	2021/22	$57,750	$57,750	$115,500
6	Sealing of Bayly Road (Waitangi Mountain Bike Park)	2021/22	$222,750	$222,750	$445,500
Totals			**$642,406**	**$642,406**	**$1,284,81**

NEW CONNECTIONS AND FNDC CONSENT REVIEW

Activity		Jan 2022	YTD '22	YTD '21	
Applications for new Water and Wastewater connections		12	85	62	12 requests to connect to Council water and wastewater services were received in January 2022. Year to date Council has received 85 applications (compared to 62 last year)
FNDC Resource Consent Applications Reviewed by IAM	All	23	257	339	IAM's development engineer and consents technician review all consents and provide comment on how to minimise/mitigate impacts on Council infrastructure.
LIMs Assessed	All	126	851	1,123	IAM's consents technician input into Land Information Memorandums by completing soil reports and assessing development contributions.

ENGINEERING STANDARDS

The Far North District Council (FNDC) Engineering Standards (ES) sets out the processes and standards that are expected to be followed and met whenever any development project or Engineering work is undertaken within the District. The ES recognizes that the District Council and other network operators will become the owners and operators of roads and other infrastructure, which are created and vested in the land development process.

EXECUTIVE SUMMARY

The FNDC New Engineering Standards (ES) is developed from WDC draft engineering standards.

Key issues on the draft ES:

- Limited resources available due to competing priorities to progress the ES to the final state.
- Some District reference documentation e.g., policies, manuals and processes that feeds into the Draft ES are either in draft state, expired or have yet to be published.
- The ES could potentially increase operations and maintenance cost.

Document

Link: Engineering Standards Far North District Council (fndc.govt.nz)

ES Table of Content

- Chapter 1 – General.
- Chapter 2 – Chapter 2: Site Development Suitability (Geotechnical and Natural Hazards).
- Chapter 3 – Transportation.
- Chapter 4 – Stormwater and Drainage.
- Chapter 5 – Wastewater.
- Chapter 6 – Water Supply and Reticulation.
- Chapter 7 – Public Spaces and Landscape Development Works.
- Chapter 8 – Electricity, Telecommunications and Gas.
- Appendices

INTRODUCTION

The Far North District Council Draft Engineering Standards (ES) has been significantly updated since the 2009 version. The Draft ES has been developed from the Whangarei District Council Draft ES together with other changes tailored with respect to the Far North. The Far North Developers serves as the audience for the new FNDC ES. Intensive integration with internal FNDC departments, Far North Waters, Northland Transport Alliance, Practitioners, The Public, Northland Regional Council and Disability Action Group is required to successfully progress the new FNDC ES to a Final state.

The FNDC ES scope is as follows:

- Requirements for the assessment and reporting of site suitability and for the design and control of earthworks.
- Future roads and infrastructure (including accessways) associated with land development, subdivision and road improvements/upgrades within the District.
- Requirements for design and construction of stormwater conveyance systems.
- Gravity and/or pumped (including Pressure Sewer) wastewater reticulation networks to be vested to Council. Private wastewater reticulation systems that are to discharge into a Council wastewater reticulation system. Private wastewater networks and on-site treatment and disposal systems.
- Requirements for design and construction of all extensions and connections to the District Council's water reticulation system.
- Minimum requirements (and some best-practice examples) for the design and construction of landscaping development works for land development and subdivision on reserves and streetscapes.
- Requirements for network utilities that are not owned or managed by the District Council: electricity, telecommunications/data and gas.

ES REVIEW STATUS & MILESTONES

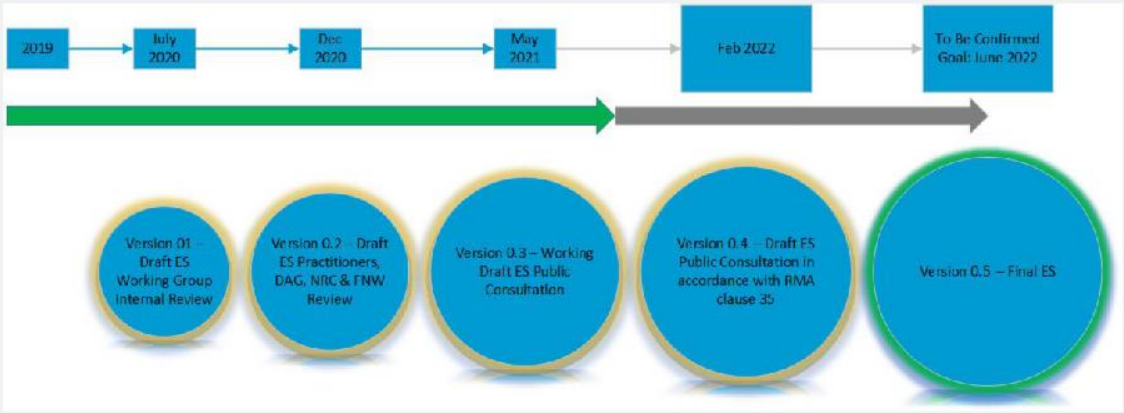


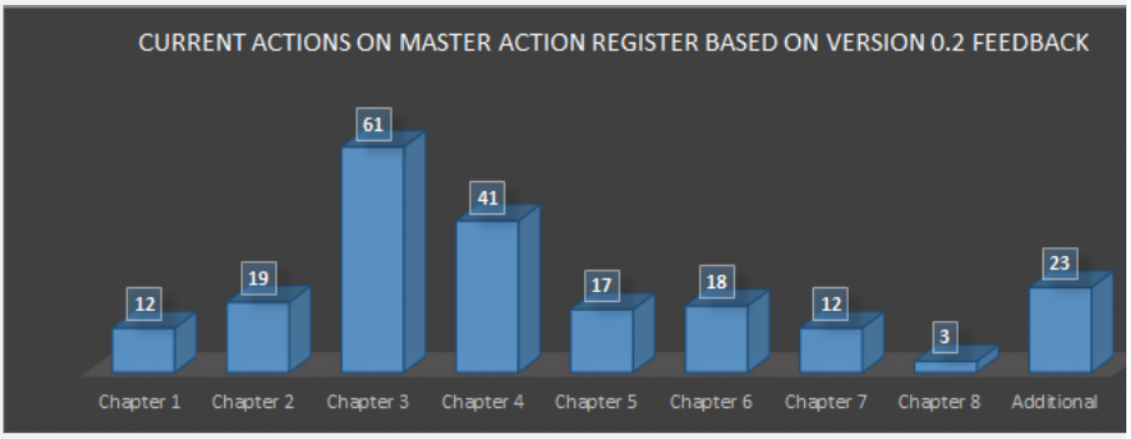
Figure 1 Key Milestone Flowchart

Date Finalized	Version	Comment
2019	WDC Draft ES	Adopted WDC Draft ES
July 2020	Issue 0.1	Draft ES – June 2020 version was produced. Document was review by FNDC internal working group and external consultant. Actions was recorded based on the review feedback.

Dec 2020	Issue 0.2	Draft ES – Dec 2020 version was produced. FNDC ES Review was handed to IAM Engineering Team. The Draft ES was sent for review to the Far North practitioners, FNW, FNDC internal, Disability Action Group and NRC. Actions was recorded based on the review feedback.
May 2021	Issue 0.3	Working Draft ES – May 2021 version is produced. The Working Draft ES will be sent out for public consultation. The Working Draft ES will be available to the public on the FNDC website. Review period is between 17 May – 14 June 2021.
Note: The Engineering Standards will be incorporated by reference in the proposed district plan. Making available a working draft allows for ongoing exchanges and refinement designed to maximise the integration of the technical document with the new district plan provisions. A future step (Version 0.4) in the continuous improvement process will involve public notification of the Engineering Standards as 'material to be incorporated by reference' in the proposed district plan. This will take place in accordance with the provisions of Clause 35 of Schedule 1 of the Resource Management Act 1991 and will invite comments on the final draft version of the Engineering Standards. This step will take place prior to the statutory notification of the proposed District plan and will ensure that there is public awareness of this opportunity for comment and further refinement.		
Goal 28 Feb 2022	Issue 0.4	Draft ES – May 2021 version is produced. The Draft ES will be sent out for public consultation in accordance with the provisions of Clause 35 of Schedule 1 of the Resource Management Act 1991. Review period to be confirmed.
To be confirmed. Goal June 2022	Issue 0.5	Final FNDC ES

ES SCOPE OF WORK

Remaining Actions



Issues: References that are in draft, expired or do not exist within FNDC		
Item	**Reference**	**Description**
1	1.4.5 Quality Assurance and Quality Control. 1.6.5.5 Testing. 5.1.4.3 District Council Documents. 4.1.4.3 District Council Documents. 6.1.4.3 District Council Documents	QA/QC Manual 2010.
2	1.5.1.3 The Role of the IQP & Throughout the document.	Independent Qualified Person (IQP) Assessment Process
3	1.6.5.1 Health and Safety	Health and Safety Policy, Contractors Health and Safety Handbook and H&S002 Potential Site-Specific Hazards Associated with the Project.
4	1.1.4.3 District Council Documents	H&S006 - Office Workplace Health and Safety Inspection Form
5	1.1.4.3 District Council Documents	Policy #0074 - Uncompleted Works Bond
6	2.1.3.3 District Council Documents.	Good ground guidance document not finalised
7	2.1.3.3 District Council Documents. 2.2.2.2 Reference Documents.	Acid Sulphate Soil Planning Policy Basic Guide 2015.
8	2.1.3.3 District Council Documents	Land Hazard Maps
9	2.1.3.3 District Council Documents	Land Instability Maps
10	2.1.3.3 District Council Documents	Policy #0129 - Stabilisation Systems for Land Development
11	2.1.3.3 District Council Documents. 2.2.2.2 Reference Documents.	Coastal Structure Plan - Slope Instability Hazard Potential and Effluent Disposal Potential:
12	2.1.3.3 District Council Documents. 2.2.2.2 Reference Documents. 4.1.4.3 District Council Documents	Stormwater catchment management plans.
13	4.1.4.3 District Council Documents	Approved Materials List - Public Spaces and Landscape Works

14	4.1.4.3 District Council Documents. 5.1.4.3 District Council Documents	Approved Materials List - Wastewater and Stormwater
15	5.1.4.1 Statutory	FNDC Trade Waste Bylaw 2009.
16	5.1.4.3 District Council Documents. 6.1.4.3 District Council Documents	Standard for Wastewater Pumping Station Electrical Engineering Systems
17	6.2.12.4 Backflow Prevention	Backflow Prevention Policy and Code of Practice
18	6.1.4.3 District Council Documents	Approved Materials List - Water Services
19	6.1.4.3 District Council Documents	Specification for Installation of Watermains
20	6.1.4.3 District Council Documents	Specification for the Installation of Service Connections
21	6.1.4.3 District Council Documents. 6.1.7.1 Work on Existing Water Mains. 6.3.1. Licensed and Registered Contractors	Specification for Registered and Licensed Contractors for Water Supply. The FNDC Hygiene Code of Practice for All Personnel working on the Water Production and Distribution System is in draft state and last worked on in 2004.
22	6.1.4.3 District Council Documents.	FNDC new water bylaw
23	7.1.4.3 Other Relevant Documents	Development contribution policy
24	7.1.4.3 Other Relevant Documents	Fencing contribution policy
Other Issues		
Item	**Reference**	**Description**
25	1.4.2 Developer's Representative	*The Developer shall nominate a specialist representative to liaise with the District*

		Council, who should be a licensed cadastral surveyor, resource management/planning consultant, or chartered professional engineer, suitably experienced in ***all phases of resource consent, and available for site visits within 24 hours of being so requested by the District Council****. A suitably qualified and experienced person in a related field may be nominated subject to acceptance by the District Council.*
26	1.4.4 a Insurance	High Public Liability Insurance is proposed.
27	3.2.6. Road Classifications and Design Criteria	Road classifications could change due to the One Network Road Classification
28	3.1.5. Reference Documents	NTA Website under construction
29	Table 4.2 Minimum Design Summary	Attenuation to 80% of pre-development flow is required when the developer Discharge to a natural flow and secondary flow path, Direct nuisance to other property and people, Discharge to council stormwater and roading network where identified downstream flooding exists.
30	Throughout the document	FNDC previously advised developers that TP 10 is not a FNDC excepted design document. This document is referenced throughout the Draft ES.

31	5.1.7. Connection to Existing Wastewater Scheme	Area of Benefit is not available to the public
32	7.2.6.1 Introduction	1.2m grass berm is added to the road corridor and trees planted in 25m c/c spacing that will increase operational and maintenance cost.
33	Working Draft ES - May 2021	Correlation between District Plan and the New Engineering Standards.

PROGRAMME DARWIN

To lead best appropriate practice enterprise asset management in New Zealand.

Mā te kimi ka kite, Mā te kite ka mōhio, Mā te mōhio ka mārama

Seek and discover. Discover and know. Know and become enlightened.

Learning is a journey. It starts with a conscious effort to seek knowledge. Upon seeking, you will surely discover a brand-new thing or see a familiar object in a totally new light. Eventually, the things you know will lead you to become wise beyond your years. Seek. Discover. Know. Be enlightened.

EXECUTIVE SUMMARY

The uncertainty around the approval of additional funding has caused the risk status of the programme to deteriorate over the reporting period. There is currently a real risk that the Programme will run out of funds within the next two to three months. The updated Delivery Roadmap for the AMS Project, drafted on the back of the configuration schedule, is being executed on. The project team is currently focused on work related to the alignment of the legacy Financial Fixed Assets Management (FAM) processes and data to the new IPS Suite. While the team is focused on the FAM, the data cleansing and migration process remains in a holding pattern, however, work on this is scheduled to resume before the end of the first quarter of 2022. As noted in the previous report, the AMS Project team estimates the timeline for the delivery of Phase 1 to be Q3-2024, pushing the date out with 21 months from the initial estimate of Q4-2022. None of the four options (status quo plus three alternatives), presented to Elected Members at the Council Meeting on 16 December 2021, were adopted. After much deliberation EMs requested that an Elected Members Programme Steering Group be set up to provide governance oversight of Programme Darwin. The first meeting is scheduled for 2 March 2022.

Far North District Council
Te Kaunihera o Tai Tokerau ki te Raki

HE ARA TĀMATA
CREATING GREAT PLACES
Supporting our people

Programme Darwin Status Report

PROGRAMME DETAILS, VISION & MISSION

Reporting Period	January 2022	**Report Date**	11 February 2022
Programme Sponsor	Andy Finch (GM – IAM)	**Programme Manager - EAM**	Chris Grobler

Vision: Leading best appropriate practice enterprise asset management in NZ
Mission: Lifting the understanding and delivery of asset management across the organisation

STATUS INDICATORS

Overall	⇧	The risk status of the programme has deteriorated over the reporting period.
Benefits		No change; remains the basis of performance framework for 2024 and outyears.
Capability		Challenges remain with project delivery resourcing across the Process and Stakeholder streams, including the availability of asset subject matter experts to contribute to the Technology workstream.
Leadership		Programme leadership remains stable. The Programme Working Group supports the sub-projects towards common alignment with the Programmes strategic goals. A new governance layer was put in place through the establishment of the Elected Members Programme Steering Group. **Note**: The 'Programme Steering Group' has been renamed to the 'Programme Working Group' to remove any confusion with the naming and function of the newly established Elected Members Programme Steering Group.
Budget		There is an increasing risk that the programme salary budget will run out before the end of the current financial year. The request for additional funding that was presented to Council on 16 December 2021, was not approved at the time of submission.
Roadmap		Revised timelines, deliverables, and expectations, detailed in the November 2020 update to Elected Members, were reviewed. Better evidence for the velocity, at which data cleansing is being performed, has since been gathered. An updated Roadmap was developed on the back of the feedback received from the AMS Project on its projected rollout schedule for Phase 1. The prospect of completing the data cleansing and migration work within the initial estimated duration is highly improbable. A more likely timeline now extends the delivery of Phase 1 to September 2024. Three alternative options, to reduce the delivery timeline, have been evaluated by the PSG and SLT, and a preferred option was recommended to Elected Members at

		the December Council Meeting. The item remains on the table and an Elected Members Programme Steering Group was established in 2022 to decide on the best course of action for the programme.
Risk		Several variables relating to funding, resourcing and the rate of delivery contribute to the volatility in the programme. Also, the proposed Three Waters Reform Programme is creating uncertainty within the delivery team.

STATE OF PLAY

Last Month	Next Month(s)
Programme: The four Phase 1 options, articulating different time, cost, and effort scenarios, were presented to the EMs in December, however Council resolved to let the item lie on the table and a programme steering group was established comprising two EMs, the CEO, and relevant staff members, to champion Programme Darwin at Elected Member level. **Workstream** • **Technology:** Team has temporarily pivoted away from Data Cleansing & Migration work towards focusing their efforts on the fixed asset register. • **Process:** Re-evaluated funding bid for the appointment of a Workstream Lead towards the end of Phase 1. Asset condition assessments are progressing well and the WinCan application is running as anticipated. • **Transformation:** Change management plan to be developed for Programme towards end of Phase 1. • **Stakeholders:** Work is continuing on the updating of Programme web pages as a reference point of information to internal stakeholders.	**Programme:** The new Programme Darwin Elected Members Steering Group's (EMPSG) initial meeting will be held on the 2nd of March 2022 to champion a way forward for the Programme. **Workstream** • **Technology:** Team will continue focus on the fixed asset register work to maximize the current availability of the Fixed asset Accountant to assist the team. Team will resume Data Cleansing & Migration work once fixed asset register piece of work is completed. • **Process:** Re-evaluate funding bid for the appointment of a Workstream Lead towards the end of Phase 1. Asset condition assessments to continue. • **Transformation:** Programme change management and communications information to be published on TK3. • **Stakeholders:** Re-evaluate funding bid for the appointment of a Workstream Lead towards the end of Phase 1. Continue *ad hoc* engagement with data supply chain partners on Darwin journey.

PROGRAMME WORKSTREAMS

Name	Type	Status	Programme Comment
TECHNOLOGY: Integrated Asset Management System (IPS Suite)	Project		Full operational use of the IPS Suite will be possible once all the data loads have been migrated (Q3-2024), and the system has been configured (towards the end of 2027). The status reflects the updated schedule from the AMS project based on the revised timelines for Data Cleansing & Migration work. The team continues to focus on work around the process configuration requirements of IPS's fixed asset register. The status of the project is expected to remain Amber over the next quarter.
PROCESS: Asset Life Cycle, Processes, Condition	Operational		The paper drafted, to secure funding that will allow for the recruitment of a Workstream Lead, is placed on hold until a revised schedule is adopted by EMPSG. The delivery of the pilot LAMP has been moved out past September 2024. Condition

Name	Type	Status	Programme Comment
Assessments, Data & Analytics			survey work is progressing well. An interdisciplinary meeting was held to ensure the proposed approach and tooling, for the capturing of field data, will provide for an efficient process, correct asset fields and reliable data. Discussions have concluded with Sewer Equipment Company Australia (SECA) for the procurement of WinCan, which has been adopted as the preferred solution to capture and manage condition data for gravity SW and WW systems.
TRANSFORMATION: Roles & Responsibilities, People & Culture Change Management	Improvement		Initial survey completed (FieldForce4). The original transformation plan will not be pursued as Tony McCartney (PraCxus) has stepped away from the programme. A new plan to be developed by Helen Ronaldson and Alison Carnaby once clarity is gained from EMs on the approved Option to move the Programme forward. Andy Dowdle was appointed to the programme to caretake the change management effort and will assist the transformation team.
STAKEHOLDERS: Upwards, Downwards, Outwards & Sideways	Improvement		The paper drafted to secure additional funding, allowing for the recruitment of a Workstream Lead, is placed on hold until a revised option/schedule is adopted by EMs. The stakeholder engagement plan is to be drafted on the back of the reinvigorated stakeholder register.

PROGRAMME MILESTONES

Milestone	Baseline Date	Actual Date	Status	Comment
Identify Stage completed	N/A	Continues		The programme of work agreed for Phase 1a will partially deliver on Council's business requirements. Phase 1b will see the standing-up of an Asset Management System that is ready to be configured over Phase 2. Delivery plans to be workshopped with the stakeholder groups over the months leading into Phase 2, this work is dependent on the appointment of the Process Improvement Workstream Lead.
Define Stage completed	31/12/2022	Continues		Operational demands on project resources along with discovered issues relating to data quality, data mapping and data transformation have delayed progress. Also, the deliverables for the Process and Transformation workstreams have not been scoped. The expertise of a Business Analyst will be essential to provide a high-level estimate of the quantum of work and execution effort that will be required to deliver on the scope of work for particularly the Process and Transformation streams.
Execute Stage completed	30/12/2023	Continues		The delivery date is extended to reflect the adaptation needed once the Process and Transformation teams are set to come online. Also, the updated options paper presented to EMs, for additional funding, requires Council approval prior to the adoption of a new delivery timeline.
Product Review Stage completed	Beyond 2023	Continues		Project & workstream delivery will be staggered over 2024-2027 to ensure each value release builds on prior releases.

TOP PROGRAMME ISSUES

Ref #	Explanation & Cause	Priority	Action Required	Owner	Date Raised
5	Operational commitments impede staffs' availability to participate in workshops or contribute to Darwin, resulting in sub-optimal progress. Also, some workstream lead positions remain vacant.	1	Require SLT assistance to identify additional resourcing to come onboard. These key-person dependency issues are expected to continue throughout the life of the programme.	PrgM – EAM GM – IAM	May 2020

TOP PROGRAMME RISKS

Ref #	Description	Probability	Impact	Trend of Risk Rating	Mitigations	Owner	Review Date
11	Program resourcing constraints (i.e., vacancies in the Process and Stakeholder workstream lead roles) may lead to an adjusted risk profile.	Possible	Major	Stable	The SLT was made aware of this risk and assistance requested to resolve the same.	PrgM – EAM	Jan 2022
15	Three waters reform investigations/ negotiations impact both progress and team willingness to advance program.	Possible	Major	Stable	Programme leadership commitment and Programme Governance Group oversight.	PrgM – EAM	Jan 2022

PROGRAMME FINANCIALS

	Approved Budget	Spend to Date	Forecast Cost to Complete	Commentary
Capex	$685,948	$558,689	$2,103,000 (Dependent on the Option adopted by EMs)	Excludes budgets related to the AMS Project and Asset Condition Assessment Programme.
Opex				-
Totals	**$685,948**	**$558,689**		-

INFRASTRUCTURE PLANNING

The following provides an overview of the Infrastructure Planning team's work programme, including three-waters and transport planning projects, collaboration and engagement activities and key consent applications and

EXECUTIVE SUMMARY

Three-Waters

- Interstage monitoring has been completed at the Ahipara wastewater treatment plant in support of the discharge to land investigations currently underway. This additional monitoring will provide greater information on the performance of the treatment plant and allow FNDC to find out if an upgrade would be required to safely discharge the treated wastewater onto the Kaitaia Golf Course.

Transport

- Staff are working closely with the NTA to handover Integrated Transport Plan projects and activities for operational implementation. Significant progress is already being made on several of the first three-year projects as reported in the Transport section of this report.
- The team is working with Strategic Planning and Policy team to deliver key transport legislation including the Parking Policy and Bylaw, New Road Use Bylaw and numerous other transport-related policy reviews, all of which are signaled for action in the Integrated Transport Plan. Reporting has commenced for Council and Strategy and Policy Committee consideration in March 2022.
- Work continues on preparation of a Business Case Point of Entry (PoE) application to Waka Kotahi New Zealand Transport Agency for subsidy of Integrated Transport Planning activities. These will provide the necessary structure for decision making on future transport project selection and delivery.

INFRASTRUCTURE PLANNING PROJECTS

TRANSPORT PROJECTS

Asset	Project	Collaboration	Project Summary and key dates	Project update
District Wide Transport	Integrated Transport Plan	Northland Transportation Alliance (NTA)	The final step to close off the Integrated Transport Strategy and Plan (ITS and ITP) is to formally hand it over for implementation.	The Activation Handover Report is almost complete and now awaits the completion of the Benefits Realisation Plan prior to issue to the delivery team at the NTA. FNDC will retain a programme management function to ensure the identified benefits are being achieved and reported back to the community via Council reporting.
District Wide Transport	Integrated Transport Planning	Waka Kotahi (NZTA)	This project delivers a business case covering the many essential planning activities identified in the ITP. It's needed to ensure we deliver the right physical projects in the medium and long term.	Following advice from Waka Kotahi (NZTA) we have consolidated 14 discrete but interrelated transport planning activities into a single application for subsidy of Business Case development. This has earned us a 'Probable' subsidy of $1.2m. We continue to work closely with Waka Kotahi to have the subsidy confirmed as approved with the developed of the next stage in the business case process a 'point of entry' and will than allocate our LTP indicated local share funding as required.
Kerikeri Area Transport Network	Kerikeri Area Transport Network Plan	SPP Strategy Development	The districts number 1 transport priority in the ITP. This project is to undertake the next steps towards delivery of a fit for purpose futureproof multimodal network integrated with land uses.	Staff are working with Waka Kotahi to restructure our subsidy application for this activity into the district wide 'Integrated Transport Planning activity (after the application for a standalone project was not included in the 2021 National Land Transport Fund). This project will be part of an important evidence base for the wider Kerikeri/Waipapa area that assist in informing the Kerikeri spatial plan and follow the business case process to ensure any future projects are eligible for NZTA subsidy.
District Wide Transport	Low Cost Low Risk Capital Works	Northland Transportation Alliance (NTA)	Preparation of ITP Project Briefs to guide NTA in delivery of Low-Cost Low Risk Transport Capital Works that have been approved	Significant progress has already been made on several of the first three year projects identified in the Transport Activity Management Plan and detailed in the Transport section of this report. Project Briefs continue to be developed and reviewed in meetings with Waka Kotahi (NZTA) and the NTA.

			for subsidy by Waka Kotahi (NZTA).	
Policies & Bylaws	Parking Policy and Bylaw	SPP Strategy Development Comms	The current Parking and Traffic Control Bylaw will automatically be revoked on 17 June 2022, so this project creates a replacement. It also answers the need identified in the ITP for Council to have a Parking Policy to provide clear direction on parking which is highly topical and prevalent throughout the ITP.	The team is working closely with Strategic Planning and Policy team to deliver key transport legislation including the Parking Policy and Bylaw, New Road Use Bylaw and numerous other transport-related policies, all of which are necessary to provide clear direction for implementation of the Integrated Transport Plan. The Parking Bylaw report to Council has been drafted and is undergoing legal review prior to submission to Strategy and Policy Committee for consideration 22 March 2022. Staff engagement on a draft parking policy is complete, however the Elected Members workshop originally scheduled for October 2021 was deferred due to higher priority workshop topics. This has allowed time for the development of comprehensive Research Report into the need and form of a Parking Policy. This will inform the Parking Policy Options report which is proposed for the 3 May Strategy and Policy Committee.

WASTEWATER PROJECTS

Asset	Project	Collaboration	Project summary and key dates	Project update
Kaitāia WWTP	Discharge Resource Consent	Iwi	To renew the resource consents for the Kaitāia WWTP. The resource consent application has been lodged with NRC and is on hold until resource consent conditions have been agreed between FNDC and iwi representatives.	Staff and iwi representatives last met in November to discuss and agree consent conditions that could be included in the consent that will mitigate some of the effects that the discharge has on cultural values. These conditions might include, for example, the requirement that FNDC fund riparian planting at the discharge site, organise and attend annual hui, and allow for Cultural Health Monitoring to take place.

WASTEWATER PROJECTS				
Asset	**Project**	**Collaboration**	**Project summary and key dates**	**Project update**
	WW Discharge to Land Investigation	Iwi; Te Hono; Engagement Team	To engage with iwi and landowners for the purpose of agreeing a preferred site for the discharge of treated wastewater and to develop a discharge concept design for that site by mid-2023.	Engagement with mana whenua representatives from Te Rūnanga o Te Rarawa, Te Rūnanga o Ngai Takoto, Ngāti Kahu (Oturu Marae and Te Paatu marae reps) is paused while the project focuses on landowner engagement, whereas Te Rūnanga Nui O Te Aupōuri initial engagement continues. Landowner engagement is now scheduled to commence in March 2022 to allow resources to focus on other projects specifically Kerikeri Waipapa Spatial plan data collation. Landowner engagement will be progressed in collaboration with Engagement and Corporate Services (Property Officer) staff.
Kaikohe WWTP	Discharge Resource Consent	Iwi; Te Hono; Engagement Team	To renew the resource consents for the Kaikohe WWTP. The resource consent application has been lodged with NRC and is on hold with the support of iwi/hapu representatives for further engagement.	Engagement with iwi representatives from Te Rūnanga Ā Iwi Ō Ngāpuhi, and hapu representatives from Te Uri o Hua, Ngāti Whakaeke, and Ngāti Tautahi is ongoing. Staff and iwi representatives are working together to improve understanding of resource consent compliance status. One queries of compliance raised by iwi reps has been resolved, the Working Group Terms of Reference can be finalised.
	WW Discharge to Land Investigation	Iwi; Te Hono; Engagement Team	To engage with iwi and landowners for the purpose of agreeing a preferred site for the discharge of treated wastewater and to develop a discharge concept design for that site by mid-2023.	This work is currently on hold while staff and iwi representatives improve understanding of resource consent compliance status. One queries of compliance raised by iwi reps has been resolved, the Working Group Terms of Reference can be finalised. The work associated with this project will be included as part of the mahi described in the Terms of Reference of the working Group being established for the Discharge Resource Consent. Material has been prepared for presentation once the Working Group is finalised, to introduce the topic of WW disposal to land and to initiate discussion regarding how the working group wishes to investigate this option.

WASTEWATER PROJECTS				
Asset	**Project**	**Collaboration**	**Project summary and key dates**	**Project update**
Kāeo WWTP	Discharge Resource Consent	Iwi; Te Hono; Engagement Team; Community	To renew the resource consents for the Kaeo WWTP. The application will be lodged before the end of July 2022.	The Engagement Team has supported and endorsed the Community Stakeholder and Engagement Plan (CSEP). Engagement with key stakeholders and the wider community is being planned for early 2022. Most technical reports required to support the application have been procured with delivery in the first quarter of 2022.
	WW Discharge to Land Investigation	Iwi; Te Hono; Engagement Team; Community	To develop an understanding of whether discharge to land is practicably, economically, and environmentally viable in Kaeo.	The feasibility stage of investigations has been completed. This stage includes desktop level investigations and a high-level economic assessment. These investigations have found that discharge to land is practicably feasible with an estimated 28 Ha of land required. However, the costs would be high meaning it may be economically unviable. Engagement with iwi, and the general community will begin in the new year to determine interest in the project. A report to the infrastructure committee will then go ahead in March 2022.
Hihi WWTP	Discharge Resource Consent	Iwi	To renew the resource consents for the Hihi WWTP. The application will be lodged before the end of August 2022.	Staff and hapū representatives met in December to discuss resourcing a Cultural Impact Assessment to support the resource consent application and will meet again in February. Fieldwork for the ecological and odour assessments has been completed. A performance assessment is underway. A hydrodynamic study was completed in December to support a public health risk assessment that will be undertaken in February.
	WW Discharge to Land Investigation	Iwi; Te Hono; Engagement Team; Community	To develop an understanding of whether discharge to land is practicably, economically, and environmentally viable in Hihi.	The feasibility stage of investigations has been completed. This stage includes desktop level investigations and a high-level economic assessment. These investigations have found that discharge to land is practicably feasible with an estimated 8 Ha of land required. However, this would be at a high cost, therefore likely to be economically unviable using targeted rates. This would also be an additional cost to the upgrades being planned for the Hihi WWTP.
Opononi WWTP	Discharge Resource Consent	NRC	To renew the resource	A date for the hearing has not yet been set.

WASTEWATER PROJECTS				
Asset	**Project**	**Collaboration**	**Project summary and key dates**	**Project update**
			consents for the Opononi WWTP.	
Kohukohu WWTP	Discharge Resource Consent		To renew the resource consents for the Hihi WWTP.	A Cultural Impact Assessment is required to complete the application to allow it to be publicly notified. This was expected before the end of 2021, however, there have been many delays on this aspect of the project mainly owing to Covid restrictions delaying hui for the involved hapū groups.
Ahipara WWTP	WW Discharge to Land Investigation	Kaitaia Golf Club; Iwi; Engagement Team; Community; External Consultants	To investigate the potential for discharging treated wastewater from the Ahipara WWTP to the Kaitaia Golf Club as a form of irrigation.	Kaitaia Golf Club approached FNDC in February 2021 to discuss this opportunity. The practical feasibility of this has been confirmed with on-site testing. A concept design is now being developed with two main workstreams: Irrigation design and a review of the wastewater treatment plant. Interstage monitoring has been completed to gain an improved understanding of the Ahipara wastewater treatment plant. This will allow FNDC to determine whether upgrades are needed in order to safely discharge the treated wastewater onto the Kaitaia Golf Course. Engagement with the Kaitaia Golf Club, iwi, and the general community will follow to assess interest in the project's continuation.
Network Hydraulic Models	Network Model updates	External consultants	TIF funding enabled a new model to be built for Paihia. DIA funding is awarded for new/updated WW models in Taipā, Hihi, Kaikohe, Kaitāia, Kawakawa, Kerikeri, Rangiputa, Whatuwhiwhi. Project completion is targeted for end of May 2022 with contingency to	The model for Paihia is complete. The project is in model build/re-build stage. Flow gauging remains in-situ within the relevant WW networks and critical asset survey continues as does gathering of other critical data required to support either the model build or calibration phases.

WASTEWATER PROJECTS

Asset	Project	Collaboration	Project summary and key dates	Project update
			end of June 2022.	
Scheme Demand Forecasting	WW Demand Forecasting	External consultant; Development Engineering	In 2021 staff procured a demand forecasting methodology tool (excel spreadsheet) into which scheme specific data could be input alongside other relevant data such as demographic forecasting information, to enable future demands on our schemes to be modelled.	Demand forecast modelling is complete for Paihia, Kaitaia and Kerikeri. The data produced for the Kerikeri scheme will support the Kerikeri/Waipapa Spatial Plan Project. Following the development of the Kerikeri demand forecast, Kaikohe will likely be the next one to be undertaken.

WATER SUPPLY PROJECTS

Asset	Project	Collaboration	Project Summary and key dates	Project update
Water Supply Schemes	Treated Water Supply Bylaw	SPP – Donald Sheppard as Project Manager	To draft for adoption a new Treated Water Supply Bylaw for FNDC prior to the revocation date (16.10.20210 of the previous FNDC Water Supply Bylaw	The bylaw was adopted in September 2021. Staff within IAM are to ensure they are using forms and templates reflective of this new bylaw.

Network Hydraulic Models	Network Model updates	External consultants	TIF funding enabled a new model to be built for Paihia. DIA funding is awarded for new/updated WS models in Kaikohe, Kerikeri, Kaitaia. Project completion is targeted for end of May 2022 with contingency to end of June 2022.	The model for Paihia is complete. The project is in model build/re-build stage. Critical asset survey continues as does gathering of other critical data required to support either the model build or calibration phases.
Scheme Demand Forecasting	WS Demand Forecasting	External consultant; Development Engineering	In 2021 staff procured a demand forecasting methodology tool (excel spreadsheet) into which scheme specific data could be input alongside other relevant data such as demographic forecasting information, to enable future demands on our schemes to be modelled.	Demand forecast modelling is complete for Paihia, Kaitaia and Kerikeri. The data produced for the Kerikeri scheme will support the Kerikeri/Waipapa Spatial Plan Project. Following the development of the Kerikeri demand forecast, Kaikohe will likely be the next one to be undertaken.

STORMWATER PROJECTS

Asset	Project	Collaboration	Project Summary and key dates	Project update
Kerikeri & Kaitaia Urban SW Catchment	Discharge Resource Consent	NRC	To obtain urban stormwater consents for Kaitaia and Kerikeri.	Due to changed (now) operative requirements of the Proposed Northland Regional Plan urban areas now require Stormwater Consents. Currently working with NRC and developing a scope of what is required.

INFRASTRUCTURE COMPLIANCE

Oversee regulatory compliance for assets and infrastructure; lead and manage response plans in the event of enforcement action; assist teams around obligations in relation to the Resource Management Act.

The following provides an overview of infrastructure compliance with NRC issued resource consents including current abatement notices.

EXECUTIVE SUMMARY

Whāia e koe te iti kahurangi ki te tūohu koe, me he maunga teitei

Pursue excellence – should you stumble, let it be to a lofty mountain

The primary goal of the Compliance function within IAM is to identify requirements and goals from a risk compliance and assurance perspective. It is also to provide sound expert advice and oversight with regards to risk mitigation and potential opportunities. Regulatory compliance, changes and adaptation are significant and a top priority. Guided by Far North District Council's values, this function's overarching goal is to use science, data, legislative requirements, and Mātauranga Māori to support decision making, to build transparency and trust and to create collective wisdom when addressing present and future risks to the organisation's Infrastructure and Assets.

WATER SAFETY PLANS PROJECT

Catchment Hazard Assessments are nearly completed. These will be compiled into the Scheme Specific WSP's. Assessment of Critical Control Points has been started as updated Water Treatment Plant schematic drawings are now available. District wide generic WSP documentation has been issued for review by FNDC teams. Planning for Implementation has commenced.

DRINKING WATER STANDARDS

Submissions on the first set of water services regulations are open from 17 December to 28 March 2022. More information can be found at Taumata Arowai - Citizen Space. The following documents are open for consultation.

- Drinking Water Standards
  - Drinking Water Quality Assurance Rules
  - Drinking Water Aesthetic Values
  - Drinking Water Acceptable Solution for Roof Water Supplies
  - Drinking Water Acceptable Solution for Spring and Bore Water Supplies
  - Drinking Water Acceptable Solution for Rural Agricultural Water Supplies
  - Drinking Water Network Environmental Performance Measures

CURRENT ABATEMENT NOTICES

Asset	Non-Compliance	Action Underway
Opononi WWTP	• The abatement notice was issued in Apr 2016 due to the plant evidencing non-compliance with the E. coli limits.	The preferred upgrade strategy which derived from the 'Issues and Options' report was: chemically assisted solids removal, UV disinfection, with an external ammonia removal package, including the maintenance of harbour discharge. This upgrade strategy has supported the resource consent renewal application and has been put forward in the Long-Term Plan.
Kaitaia WW Network	• The abatement notice was issued in April 2016 due to unconsented network overflows • Unconsented network overflows	Screens have been installed at the overflow location and programme of work is underway to reduce frequency of overflows. An Action Plan has been created to prioritise the creation of a Leak Detection Plan as a result of the planned zonal monitoring.
Awanui Riverbank	• Erosion of riverbank sediment into Awanui River above Kaitaia water take weir causing sediment discharge	DIA funding of $215,000 has been earmarked for stabilising the riverbank adjacent to the weir. Site investigation and preliminary engineering advice has been commissioned.
Ahipara WWTP	• Leachate levels exceeding consented limit of 10m3 per day	Project commenced to procure new automated monitoring equipment.
Russell WWTP	• Outstanding monitoring data and maintenance records	IAM Team Lead liaising with NRC and FNW about current abatement notice. Asset Managers have scheduled several improvements; -Inlet Works (screen) UV Unit Replacement,-New or Refurbished disposal bores,-Pond liner replacement.
Mill Bay Odour	• Discharge of odour from a pumpstation at Mill Bay. Issued 20 December 2021	IAM Team Lead investigated odour RFS's in the Mill Bay Area. RFS's have only been reported adjacent to pumpstation. Options to reduce the odour will be investigated once the cause of the pumpstation odour is determined.

WATER AND WASTEWATER RMA COMPLIANCE REPORT – JANUARY 2022

Sites	Asset Group	December Status	Comment
Kaitaia		Compliant	
Kaikohe		Compliant	
Kawakawa		Compliant	
Kerikeri		Compliant	
Okaihau		Compliant	
Opononi		Compliant	
Paihia		Compliant	
Rawene		Compliant	
Russell		No data	• Liaising with FNW to obtain usable data on bore take. This consent is for firefighting and public toilets and is not a potable supply.
Ahipara		Condition 10 - Faecal Coliforms	• Council is investigating land disposal options at Ahipara. • Project has commenced to replace leachate monitoring equipment
Hihi		Non - Compliant - NH4-N	• The project to upgrade plant is in its initiation phase. • The downstream NH4-N exceeded 1.6g/m3. There was a similar breach in January 21 suggesting this is caused by summer low flows. This can be addressed in the design of the new treatment plant. • Special summer E.Coli monitoring has commenced as required by consent conditions.
Kaeo		Compliant	
Kaikohe		Non - Compliant - NH4-N	• Consent renewal application has been lodged. • Downstream monitoring results for NH4 – N breached consent conditions in early January. This was back within consent limits by late January.
Kaitaia		Compliant	
Kawakawa		Compliant	• Total suspended solids (TSS) trending up. Trend will be monitored.
Kerikeri		Non-Compliant – E.Coli	• 50%ile E.Coli non-compliant since 11.01.22 result. This is likely due to an 860 result in August when a membrane ripped.
Kohukohu		Compliant	
Opononi		Condition 19 – E.Coli and ammonia	• Wetland restoration completed in October. E.coli has reduced from 10863 MPN to 3076 MPN but is not yet in compliant range <3000MPN. • Resource Consent renewal in process.

Sites	Asset Group	December Status	Comment
Paihia		Non-Compliant - ammonia	• Note due to a high actual NH4-N reading in October the 50%ile and 90%ile have trended up. To become compliant actual NH4 – N will need to trend down over the next 12 sample results. • Desludging is proposed for this year. Funding is being sought for a reliable generator to operate the aerator.
Rawene		Compliant	• A high TSS result in November is attributed to wetland maintenance. This has caused the 90%ile to trend up.
Rangiputa		NA	• An illegally parked boat trailer has prevented access to the plant. FNDC lawyer is contacting owner.
Russell		Non-compliant	• Water Quality compliant this month • Non-compliance relates to outstanding reporting and monitoring. • IAM Team Lead liaising with NRC and FNW about current abatement notice. An infringement notice was received on 14 Jan 22 in relation to a high E.Coli result immediately after a UV unit fault in Oct 21. • Asset Managers have scheduled several improvements; Inlet Works (screen), UV Unit Replacement, New or Refurbished disposal bores, Pond liner replacement.
Taipa		Non-compliant – ammonia and faecal	• Desludging of lagoon 2 in October temporarily affected processing of ammonia. The ammonia trend has improved from 28.1g/m3 in October to 9.89g/m3 in December then back to 16.4 in January. The consent limit is 5g/m3. • Constructed wetland restoration plan is being developed
Whatuwhiwhi		Non-Compliant - TSS	• Faecalis and E. Coli trending up. FNW investigating options for replacing aerator and desludging. Seeking methodology, timeline and cost from provider. Due for desludging in 23/24 year. UV's being serviced January 2022.

ASSET MANAGEMENT

Assets need to be planned, created, operated, maintained, renewed and disposed of in accordance with Council's priorities for service delivery for current and future generations.

The following provides an overview of key projects and deliverables the Asset Management Team are working towards. These are being delivered in conjunction with 'business as usual' work such as RFS's, operational matters and minor projects.

EXECUTIVE SUMMARY

Asset Management continue to work through key activities. To outline, a few are.

- A drive and focus on completion of either business cases, scopes, or statement of works for projects in the Capital Delivery programme (for FY22 and FY23)
- Further tweaks to projects for the Annual Plan
- Procurement Plans, packages of work and tenders for the Condition Assessment Programme for FY21/22. The focus of these have been on;

3 Waters

- CCTV
- Potholing (Water Pipes)
- Structural Assessments of Pipe Bridges
- Seismic Assessments of Dams and Reservoirs

District Facilities

- Safety Audit of Council's Playground Facilities



- Condition Assessment and Conservation Management Plans of Heritage Buildings
- Condition Assessment of FNDC's Object Assets, Monuments and Statues

Sludge Update:

As per the Annual Plan discussions and workshops, the purchase of capital equipment has been removed from the capital programme for FY22. An update of the sludge strategy has occurred and some activity for end use has been underway. The priority on these topics has been reduced due to the high number of consent renewals, the increased community engagement for consents and increased activity for discharge to land optioneering.

Key: • Complete • In progress • Parked

Stormwater | District Facilities | Wastewater | Water | Roading

Activity	Asset Group	Status				Expected Completion	Comment
		Concept	Plan	Deliver	Handover		
Strategies / Plans / Policies							
Combined Asset Management Plan (3 Waters and District Facilities)	All	•	•	•	•	FY21/22	A combined draft Asset Management Plan for 3 Waters and District Facilities is complete. The AMP is now in use across the Asset Management team.
Annual Plan (AP)	All	•	•	•		FY21/22	Workshops for the AP kicked-off in September and work on both the Capital and Operational programmes will continue through until March 2022. Adoption of the plan will be in June 2022.

Stormwater Strategy		•	•	•		FY21/23	***Next steps:***
							• Finalise the Project Concept Form
							• Do options paper for Strategy and Policy Committee
							• Engage with the community
							  • Develop engagement plan
							  • Identify key affected parties
							• Full Elected Member workshop
							• Draft Strategy
							• Draft Action Plan
							• Internal workshop

Asset Identification / Condition Assessments							
Prioritised Scheduled Asset Condition Assessments	All	•	•	•		FY21/31	Packages of work for District Facilities Playgrounds Safety and Compliance District-Wide, Heritage Buildings and Objects and Sculptures have been put out to Tender. Works to be awarded in February 2022. A Procurement Plan for 3 Waters ($1.87m) encompassing

Key: • Complete • In progress • Parked

Stormwater | District Facilities | Wastewater | Water | Roading

Activity	Asset Group	Status				Expected Completion	Comment
		Concept	Plan	Deliver	Handover		
							CCTV, Potholing (water pipes), structural assessments of Pipe Bridges and Seismic Assessments of Dams and Reservoirs is complete and is going to the Tender Panel for approval on 14 February 2022.
Other							
Asset Management System	All	•	•	•		FY21/24	Data Transformation continues with operational use of INFOR ('Go Live') now expected for Q3 2024 ***(please refer to Programme Darwin for full details).***
Data Cleanse / Tidy Up	All	•	•	•	•	Ongoing	A continual process as part of the AMS
3 Waters Reform Workstream	All	•				Ongoing	As part of the central Government announcement, a number of people across Council are involved with the transition workstreams for the reform. The Asset Management team has a number of stakeholders involved in this process and will continue to do so for the next 2 years.
Stormwater modelling requirements		•	•	•		FY21/23	As per the SW Catchment Management Plan (CMP), the models for SW will take in excess of 2 years for full implementation updates, although a large number will be updated as part of the DIA programme noted below.
Water modelling requirements		•	•			FY21/24	Funding to update the 3 Waters models was secured through the 3 Waters DIA funding reform. Gap analyses are largely complete and flow monitoring is underway.
Wastewater modelling requirements		•	•			FY21/24	As above

DISTRICT FACILITIES

Maintain Council parks, reserves, cemeteries, owned community and operated buildings, Housing for the Elderly, public toilets, town maintenance, contracted swimming pools and Solid Waste in accord with policy, strategy and legislation.

EXECUTIVE SUMMARY

- COVID continues to affect service delivery with vaccine mandates impacting some contractors who have lost staff as a result of this. Transport delays have slowed delivery of supplies and spare parts.
- An Omicron Plan is progressing focused on how we continue to provide essential services including the provision of public toilets, burials, attend to urgent Housing for the Elderly maintenance issues, security issues and rubbish collections.
- Contracts have been signed with OCS to provide cleaning services to the Council buildings while the Crewcut contract has also been finalized. Crewcut provide mowing and grounds care to the Housing for the Elderly villages.
- Issues concerning encroachments continue to be received.

ASK NICELY – CUSTOMER EXPERIENCE PROGRAMME

Work continues to improve communication with customers to ensure they are involved / updated as per their RFS.



TOTAL # of RFS's rec'd	Jan	Feb	Mar	April	May	June	July	Aug	Sept	Oct	Nov	Dec	TOTAL
2021	452	346	348	393	367	318	388	278	325	361	441	360	**4377**
2022	406	175											**581**

Positive customer feedback

Good morning team,

Just spoke to the anonymous customer who lodged the above RFS for a no camping sign to be erected at Causeway Road, Haruru. He wanted to thank you for the work you did and for putting up the sign. He and the neighbours are really pleased. The customer was going to call us to say thank you, however I beat him to it. Thank you team for your quick action with this one, have a wonderful day.

Good afternoon team,

Spoke with our client Leanne who reported a mess in the toilets at Homestead Road in Kerikeri as per RFS. She wanted to let the team know that she loves your work! She really appreciated that the work was completed on the same day too. Enjoy your afternoon.

CONTRACTS

OCS Cleaning Contract

This contract is focused on building cleaning and auxiliary services has been finalised and signed by both parties. This contract is syndicated to the NZ Police contract. Syndicating this contract will save the organisation in time and staff costs as we will only need to manage one contract rather than nine individual suppliers of minor services. It is expected savings in staff time will off-set the 0.05% increase in the cost of the contract. It must be noted that some services have also increased.

Crewcut Contract - Housing for the Elderly

This contract is focused on the provision of mowing and edge control services in and around our Housing for the Elderly sites. The term of the contract as agreed and signed is 1 July 2021 to 30 June 2023.

However, early in December 2021 Council was informed the business had been sold to Andrews Services and Maintenance Ltd. This has not affected the LOS or contract price and has therefore been approved and a novation actioned.

HEALTH AND SAFETY UPDATES

Recreational Services

ACCIDENT TYPE	Feb '21	Mar '21	April '21	May '21	June '21	July '21	Aug '21	Sept '21	Oct '21	Nov '21	Dec '20	Jan '22
Near Miss	0	0	0	0	1	0	0	0	0	0	1	0
Vehicle / machinery near miss	3	0	1	3	0	0	0	0	1	1	0	1
Non-serious harm	1	1	0	0	1	2	0	0	2	0	0	1
Serious harm	0	0	0	0	0	0	0	0	0	0	0	0
Vehicle / Machinery accident	1	0	0	0	0	0	0	3	0	0	0	1
Public Altercation	0	0	0	0	0	0	0	0	1	0	0	0
Chemical Spill	0	0	0	0	0	0	0	0	0	1	0	0

- **Vehicle Near Miss:** While filling up the truck the operator realized halfway through that they were filling with petrol not diesel.
- **Vehicle/Machinery Accident Third Party:** While stopped in queue of traffic waiting for vehicle indicating to cross to opposite side of road the car in front accidently reversed into operator's vehicle.
- **Non-serious Harm:** cutting palm fronds and one of the spikes went through side of leather work boot into ankle.

OCS *(Cleaning contractor for Council buildings)*

ACCIDENT TYPE	July '21	Aug '21	Sept '21	Oct '21	Nov '21	Dec '21	Jan '22	Feb '22	Mar '22	Apr '22	May '22	Jun '22
Near Miss	0	0	0	0	0	0	0					
Vehicle / machinery near miss	0	0	0	0	0	0	0					
Non-serious harm	0	0	0	0	0	0	0					
Serious harm	0	0	0	0	0	0	0					
Vehicle / Machinery accident	0	0	0	0	0	0	0					

- **Nothing to report**

Waste Management *(Southern RTS and CRC's)*

ACCIDENT TYPE	Feb '21	Mar '21	April '21	May '21	June '21	July '21	Aug '21	Sept '21	Oct '21	Nov '21	Dec '21	Jan '22
Near Miss	0	0	0	1	0	1	1	0	0	0	0	0
Non-serious harm	1	0	1	0	0	0	0	0	0	0	0	0
Serious harm	0	0	0	0	0	0	0	0	0	0	0	0
LTI	0	0	0	0	0	0	0	0	0	0	0	0
Vehicle / Machinery accident	0	0	0	0	0	0	0	0	0	0	0	0

- **Nothing to report**

Northland Waste *(Northern RTS and CRC's)*

ACCIDENT TYPE	Feb '21	Mar '21	Apr '21	May '21	June '21	July '21	Aug '21	Sept '21	Oct '21	Nov '21	Dec '21	Jan '22
Near Miss	0	0	0	0	0	0	0	0	0	0	0	0
Non-serious harm	1	1	4	1	3	0	0	0	0	1	0	0
Serious harm	0	0	0	0	0	0	0	0	0	0	0	0
LTI	0	1	1	1	0	0	0	0	0	0	0	0
Vehicle / Machinery accident	0	0	0	0	0	0	0	0	0	0	0	0

- **Nothing to report**

Northland Waste *(Russell RTS and landfill)*

ACCIDENT TYPE	Feb '21	Mar '21	Apr '21	May '21	June '21	July '21	Aug '21	Sep '21	Oct '21	Nov '21	Dec '21	Jan '22
Near Miss	0	0	0	0	0	0	0	0	0	0	0	0
Non-serious harm	0	0	0	0	0	0	0	0	0	0	0	0
Serious harm	0	0	0	0	0	0	0	0	0	0	0	0
LTI	0	0	0	0	0	0	0	0	0	0	0	0
Vehicle / Machinery accident	0	0	0	0	0	0	0	0	0	0	0	0

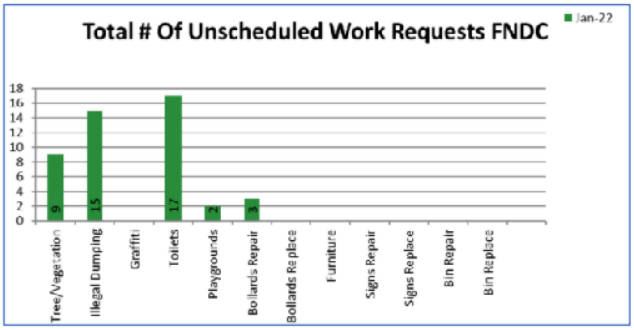
- **Nothing to report**

CBEC Eco Solutions *(Waste Education Contract)*

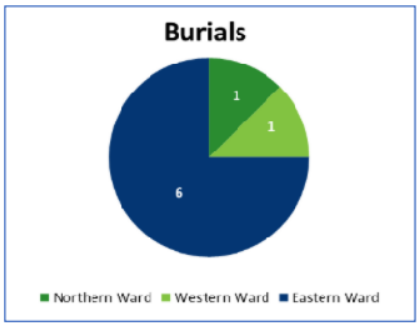
ACCIDENT TYPE	Feb '21	Mar '21	Apr '21	May '21	June '21	July '21	Aug '21	Sep '21	Oct '21	Nov '21	Dec '21	Jan '22
Near Miss	0	0	0	0	0	0	0	0	0	0	0	0
Non-serious harm	0	0	0	0	0	0	0	0	0	0	0	0
Serious harm	0	0	0	0	0	0	0	0	0	0	0	0
LTI	0	0	0	0	0	0	0	0	0	0	0	0
Vehicle / Machinery accident	0	0	0	0	0	0	0	0	0	0	0	0

- **Nothing to report**

RECREATIONAL SERVICES



Number of unscheduled works requested by FNDC



Number of burials at Council public cemeteries

RSL Internal Audits

	Target	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Jan-22	Average
Mowing	95	100.0		97.7	98.0	100.0	99.5	99.1		98.0	97.2	98.1	98.6	98.1	**99.2**
Edging	95	100.0		100.0	99.4	98.1	95.0	100.0		97.6	98.8	100.0	93.8	100.0	**99.4**
Gardens	95	100.0		98.6	99.1	97.2	100.0	100.0		98.6	97.2	100.0	98.6	100.0	**99.2**
Playgrounds	95	100.0		100.0	99.4	92.9	98.8	93.7		96.4	100.0	98.8	100.0	100.0	**99.3**
Town Maintenance	95	91.7		98.8	97.2	95.7	95.2	99.1		98.4	98.8	95.3	98.0	98.3	**98.1**
Toilet Maintenance	95	98.7		96.4	96.8	96.2	93.7	96.1		95.2	96.8	100.0	98.4	94.5	**97.3**
Cemeteries	95					100.0	100.0	100.0				95.9	100.0	100.0	**99.0**
Furniture	95	100.0		100.0	99.4	100.0	100.0	100.0		100.0	100.0	99.0	100.0	100.0	**99.5**
Total Internal	95	**97.9**		**98.6**	**98.3**	**97.6**	**96.9**	**98.7**		**97.7**	**98.5**	**98.3**	**97.8**	**98.1**	**98.7**

RSL internal Town Maintenance contract audits

Council Audit of RSL

	Target	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Jan-22	Average
Mowing	95									100.0	100.0	100.0	100.0	100.0	**100.0**
Edging	95									98.3	100.0	100.0	100.0	100.0	**99.2**
Gardens	95									99.3	97.9	100.0		100.0	**98.6**
Playgrounds	95									100.0	100.0	98.8		97.6	**100.0**
Town Maintenance	95									96.6	99.3	100.0		97.7	**98.0**
Toilet Maintenance	95									91.2	92.1	99.8	100.0	99.6	**91.7**
Cemeteries	95									100.0	100.0	100.0			**100.0**
Furniture	95									99.0	100.0	100.0		97.5	**99.5**
Total Internal	95									**96.9**	**97.9**	**99.9**	**100.0**	**99.0**	**98.7**

FNDC internal Town Maintenance contract audits

CEMETERIES

Kerikeri Cemetery

New concrete plot and ash berms are to be installed in the newer section of the cemetery to extend the available sites.

Russell Cemetery

Site is being scoped to determine locations of new plot berms to increase available plots.

PARKS AND RESERVES

Long Beach, Russell

Council is working with the NTA and Heritage NZ (HNZ) as several koiwi (human bones) have been exposed along Long Beach, Russell. Works to remove the bones, will be carried out by HNZ in conjunction with the local Hapu. Due to COVID, the powhiri planned for November has been postponed to the new year and a start date of February 2022 is proposed.

Sandbags initially installed to assist with the ongoing erosion deteriorated and were removed. As a temporary measure, a geo-cloth was put in place and sand placed over it to hold it in place while waiting for the confirmation of a start date. It is proposed the koiwi would be interned as soon as possible after being removed.



Koiwi site and erosion control work – Long Beach, Russell

Paihia-Opua Walkway track closure

The boardwalk section of the Paihia-Opua walkway is closed due to a rotted bridge pile on the footbridge crossing the tidal river. Communications have been sent out notifying locals and visitors of the closure and its potential impacts to the busy walkway. This has also featured in a number of newspapers.

The bridge section of the walkway spanning the river has also been removed in an effort to ensure public safety and stop people continue to use the damaged facility. The barriers are still being removed by determined members of the public creating potential issues and requiring us to replace them several times.

Potential repair options are being scoped by the Asset Management Team.



Boardwalk barrier removed by members of the public - Paihia-Opua Walkway

Charlies Rock Track Closure

The entry into this track off Waipapa Landing Road remains closed after being washed out on multiple occasions resulting in the track being closed. The track will be closed for a period of time while repair options are being considered and scoped by the Asset Management Team.



Charlies Rock Track

Waiototara / Te Araroa Walkway

NRC PGF funding was secured by the Te Araroa Trust to upgrade the joint utilised walkway between Waipapa and Rainbow Falls on Council owned reserve land.

Weed and Vegetation Issues

There are a growing number of sites, typically unmaintained reserves, where neighbouring property owners and / or concerned locals are complaining about the number of noxious weeds and invasive plant species growing within Council reserves. There is a growing expectation that as private property owners are responsible for the control and eradication of noxious weeds on their property, Council should also be held responsible for such growth on our parks / reserves and if not, contribute to the continuation of the issue. This matter has been raised with SP&P as there are no guidelines on how Council should respond to weeds and pests. There is also no operational budget to deal with this issue which extends across the District.



Unmaintained reserve example between Inlet Road and Rarere Terrace, Kerikeri

PLAYGROUNDS

Kerikeri Domain shade sail - has now been reinstalled after being cleaned and maintained. Unfortunately, someone asked the company to stall its installation due to project work proposed in the area.

TREE MANAGEMENT

On-going issues with trees continue to be reported, mainly associated with leaf drop, dead/hanging branches and nuisance trees. Trees are being removed if it is proven they are a risk to people and / or property or their health is in such a decline, that death is inevitable.

Pohutukawa Trees - SH12, Opononi

Rocks were installed below the notable Pohutukawa trees. A more permanent solution needs to be considered by the Community Board. It is hoped these will provide the protection needed in the meantime.





Redwoods, Kerikeri

Arborist Consultants, Arborlab (an Auckland based company) completed their inspection of the two stands of Kerikeri Redwoods pre-Christmas. The final report and recommendations are expected early February.

While waiting for the report the works to install numbered tags to each tree of the stands has started. This is to help with identification and assessing / responding to specific trees.



Kerikeri Redwood numbered tag installation

District-wide Palm Issues

Work to remove all hanging and dying fronds to reduce the risk associated with palms that are a risk to people / property) has started. This is a staged approach given the number of palms across the District. Priority one locations include:

- Waipapa Road, focus on the palms located outside Blue Marlin Drive
- Car park, Kerikeri Bowling Club – approx. 5 palms
- Williams Road, Paihia
- Kings Road, Paihia
- Watea Estate, Haruru – approx. 20 palms
- Bayside Drive, Coopers Beach – entrance only
- Car park, Coopers Beach shopping complex
- Centennial Park, Kaitaia
- Kaikohe main street



Coopers Beach Carpark Palm Maintenance Complete

Taipa Beach Pohutukawa

The dead Pohutukawa tree at the Taipa Beach Reserve was removed just prior to Xmas and the stump removed this month. Locals had used the delay between tree and stump removal to express their thoughts on this by scribing a message on the tree stump.





Taipa Beach Pohutukawa removal

Kaikohe Mainstreet trees

Four trees along the Kaikohe main street require maintenance due to their growth, proximity to building and obstruction of community patrol cameras. Arborist has carried out site assessments and their report is expected late March which should recommend the work needed to resolve the issues.





Kaikohe Mainstreet - trees proximity to buildings and obstructing community patrol cameras

Kaitaia Mainstreet trees

Maintenance and trimming of the Magnolia along Commerce Street, Kaitaia took place prior to Christmas. The Arborist involved has advised that the steel grates that were installed to protect the tree's roots from damage at the time of planting, now pose a problem to the trees. Many of the grates have lifted and are also a Health and Safety issue for pedestrians resulting in trip hazards, lifting pavers and damaging tree roots. It is proposed once the grates and grills are removed, bark/mulch will be put in place to protect the trees.



Kaitaia Mainstreet – Magnolia tree

PUBLIC TOILETS

All toilets continue to display current COVID QR codes and as a result of the on-going nature of COVID, Perspex covers installed to protect and reduce the number of QR code replacements needed.

TOWN MAINTENANCE

Williams Road Paihia

An area outside the Williams Road public toilets and carpark has been the site of recent H&S concerns due to members of the public tripping on the uneven surfaces / kerb block lip. A seat has been installed and the rubbish bin move to tidy up and to rectify the issues.



Williams Rd seat installation to eliminate potential trip hazard

Rawene Township

Continuation of spraying in and around Rawene, as per the RSL contract continues until the Hokianga Spray Committee determine a workable solution for weed control in the area. Any changes ned to take into account the impact that weeds / uncontrolled vegetation has as per an increase in complaints about weed growth and / or additional budget needed to off-set an increase in the use of bio-sprays, labour costs etc.



Rawene Township gardens edge control and Clendon Esplanade kerb and channel

DOMAIN COMMITTEE 2020/21 INFORMATION

Letters have been sent to the Domain Committees requesting their 2020/21 annual information before their annual grant can be uplifted. A number of committees are yet to provide this information. It is still planned this information will be presented to the appropriate Community Board's March / April meetings.

ENCROACHMENTS

General

Encroachment issues continue to be received however due to priorities and resourcing issues many of these are suspended. District Facilities are aware of the following:

Location	Ward	Background	Status
Okiato / Deeming Road, Russell	Eastern	Site meeting held with NZ Walking Commission.	Suspended
Wharau Road Reserve	Eastern	Report to be presented to the Community Boards March (31) meeting.	WIP
Te Wahapu, Russell	Eastern	Areas of encroachment being investigated.	Suspended
Heron Hill, Kerikeri	Eastern	A historical situation where a boatshed and boat ramp built over an esplanade reserve. Site visit needed.	Suspended
Major Bridge Drive, Russell	Eastern	Boatsheds constructed on council reserve.	Suspended
Doves Bay Road, Kerikeri	Eastern	As per a RC application, several structures have been identified as being built on Council reserve land.	Suspended

Location	Ward	Background	Status
Hansen Road, Kerikeri	Eastern	Details to be confirmed with Monitoring and Compliance team	Suspended
Scenic Reserve, Paihia	Eastern	Historic Issue: Private dwelling located a courtyard and other structures on Council reserve.	Suspended
Korora Park, Ahipara	Te Hiku	As part of a project proposed for the upper park, several buildings including gardens have been built on the park.	Suspended
Cable Bay	Te Hiku	Buildings, gardens, steps and a shower built on an open space legally described as 'Road'. Discussions continue as to when these matters will be addressed.	WIP
Hihi Bay Road	Te Hiku	Complaint from a neighbour concerning another resident who has placed several horticulture tunnels on reserve land.	WIP
Waterfront Drive, Houhora	Te Hiku	Earthworks and plantings have been happening at the end of this road without the approval of Council and / or input from Heritage NZ. It appears much of this work has been and continues to be on Road / reserve and into the waterway resulting in damage / destruction to archaeological features etc.	TBC
Koutu, Opononi	Western	Issues with access to the Koutu boulders has identified that several property owners may have included public accessways as part of their private property.	Suspended
Otiria	Western	Issues with access to the Otiria waterfall has identified that several property owners may have included public accessways as part of their private property.	TBC

SOLID WASTE

Seasonal Collections

All public holidays occurred on weekends which meant that collections could continue to the normal schedule. This reduced confusion so that overall kerbside collections went smoothly over the holiday season

Regional Solid Waste Working Group

Discussions have been had for a regional effort to secure a discounted landfill disposal rate for all three Councils. Also, to consider Whangarei and the Far North District Councils collaborating to draft a new waste minimisation education contract. A formal meeting to address the above will follow.

ECO SOLUTIONS REPORT - DECEMBER 2021

Schools: *All schools were sent a newsletter and were provided new updated recycling guides and signage.*

Kaikohe school has received support to compost their packaging with the help of the new Compost Hub in Rawene at the Hospital, our new Para Kore Kaitiaki will make sure the system starts smoothly!

Unfortunately, Kaitaia College and Kaitaia primary choose to increase their use of compostable packaging this year, we had to advise them that the lack of a compostable processing plant in the far north means they would be better to wash and reuse or resort to plastic as compostable packaging in the landfill is extremely harmful, as it releases even more methane than food waste!

Communities: *A recycling poster has been designed with the express purpose of clarifying what can and can't be recycled at Recycle Transfer Stations.*

Events: *Whangaroa clean-up was a collaboration of diverse groups; EcoSolutions, Kaitiaki Whangaroa, Plastic Free Kaeo and the Runanga /Tai Tokerau Border Control. EcoSolutions provided a H&S Plan and health and safety gear. Over 3m³ of waste was collected over an area from Waiare to Kaeo to Tauranga Bay.*



From left to right: volunteers unloading utes and cars at the Kaeo Fire station. The amount of waste collected between Whangaroa harbour and Tauranga Bay in the middle and picture of the right depicts the total amount of waste collected in the 3-hour clean-up.

Online posts*: We had a break over the festive period from posting online to allow folks to be present with their whanau.*

We reached a total of 3,100 people with posts ranging from recycling information, worldwide waste reduction initiatives, to how to get rid of flies naturally

Businesses: *the bookshop in Waipapa received resources to increase recycling including recycle signs and a recycle poster. EcoStar Businesses received support with updated recycling signage and a newsletter.*

EcoStar: *Businesses are achieving their EcoStar awards:*

- ***Gold****: Cinema Cafe, Kawakawa Library, Kawakawa Pharmacy, Mana Kai, Doubtless Bay Kindy, Mission Place Kindy*
- ***Silver****: Jeannette Corbett massage therapy, Kaikohe Library*
- ***Bronze:*** *Newbees preschool, Kawakawa pools, Kaitaia Pools*

Community Compost Connection: *Round 2 is about to start for the Community Compost Connection with updated systems and website.*

Community

Ano Ano in conjunction with EcoSolutions diverted textile waste from landfill and provided bunting, wet bags, reuse paper towel recycling bags, for kindy's as well as sewing laundry bags and reuse bags for the market.



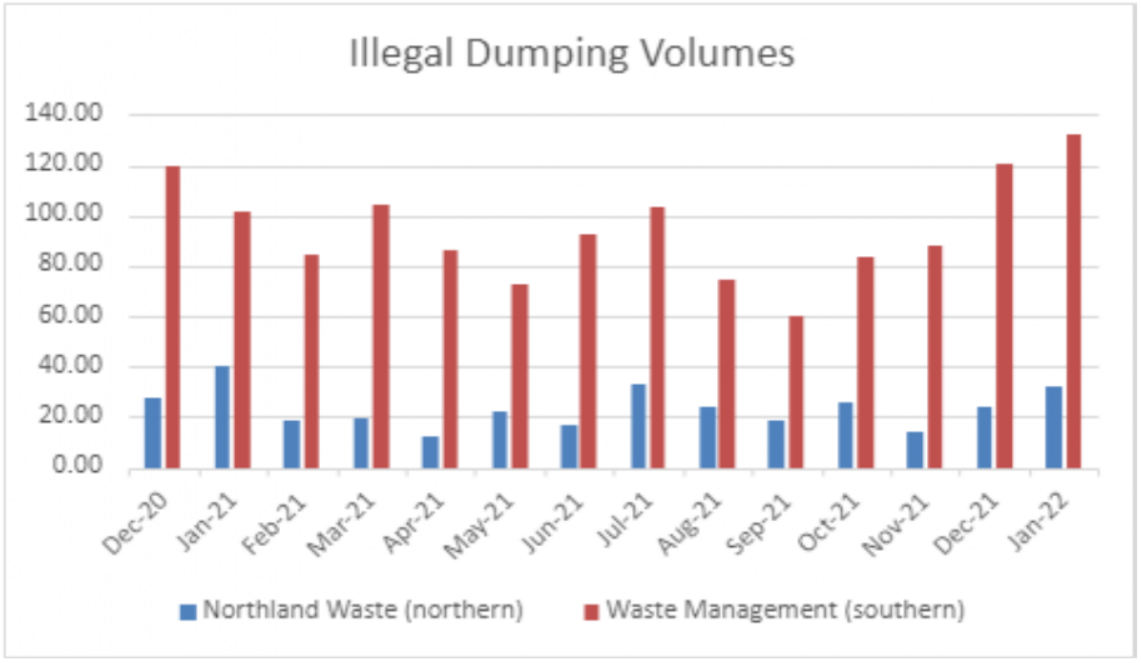
EcoSolutions/Para Kore/Kaicycle all collaborate to reduce waste at the Kaitaia Market each Saturday, composting the majority of the waste generated.

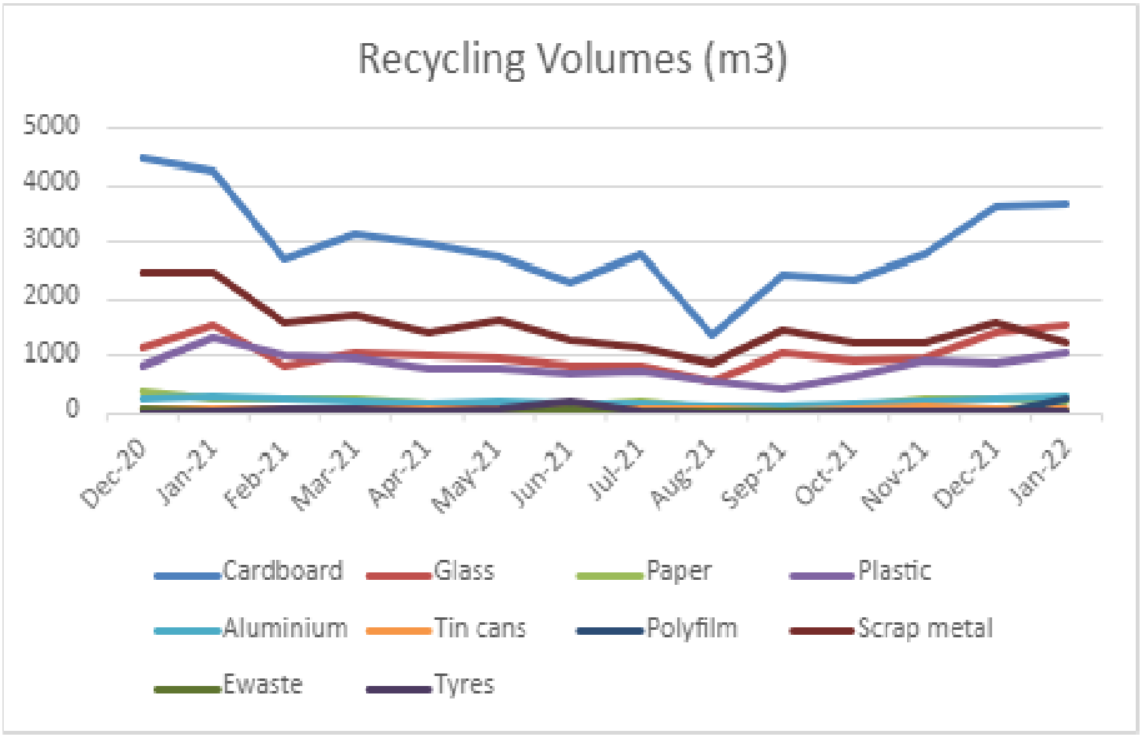
Para Kore : *Two new Kaitiaki were onboarded, one in Kawakawa and one in Kaikohe. They are being trained over the next month - we expect to see big changes in their rohe soon!*

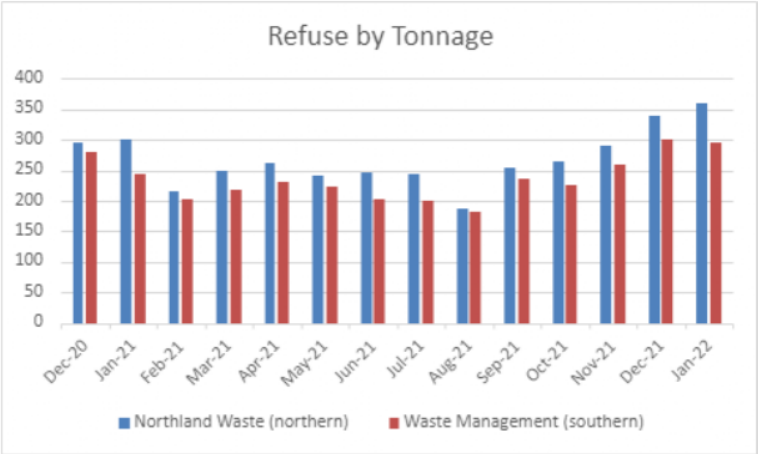
LITTER INFRINGEMENT ACTION

January 2022 - no fines were issued, sent to Court, waived or paid.

SOLID WASTE STATS







SWIMMING POOLS

The pools were open for the month of January, however Kaikohe and Kerikeri are still subject to planned closures, by the contractor, due to insufficient staff being available to ensure appropriate cover is provided as legally required.

Kaitaia Pool

Kaitaia was open as scheduled except for 2 faecal events and a valve failure totalling 3 days, 3 hours and 50 minutes of operational closures.

The plumber was unable to source parts for the valve failure, fortunately a staff member was able to locate an old valve in storage which was modified to repair the issue.

Dive pool pump not working fully, staff managing situation with chemicals and daily brushing of walls in dive pool.

Kerikeri Pool

Kerikeri pool was open for the entire month of January excluding the closures scheduled by Hapori due to staff shortages, several part days totalling 70 hours or the equivalent of 5.83 days over the course of the month. These closures represent a level of service below the minimum requirement of the contract.

The following works remain pending: (due to contractor availability)

FNDC

- Repurposing a drought response water tank to increase the storage capacity and therefore efficiency of top ups and backflushes. The current staff are accustomed to the existing system and have not had any issues – hold for review as part of winterization programme
- Repairs to the electrical mains switchboard as replacement parts are unable to be sourced due to COVID delivery issues. The contractor has now registered for Site Wise and was booked to do this work in December, but delays have meant the job remains pending at the end of January.

Hapori

- Chemical shed door – job booked December, awaiting parts, not completed in January
- Adjusting change room doors – Job booked December, awaiting parts, not completed in January
- Small leak in one pipe in plant room – awaiting Spa & Pool, Kerikeri, awaiting contractor availability, possibly in March.

Kaikohe Pool

The Kaikohe pool was open but also had planned closures as a result of Hapori's lack of staff. There were 6 full days over the course of the January, or 76.5hours. These closures represent a level of service below the minimum requirement of the contract.

The repair of the shut off valves and manifolds will be delayed until the end of the season.

BOI Rec Centre – Sport Northland Grant

The Sport Northland Grant is now able to be paid after receiving a preliminary report. The agreement requires quarterly financial and non-financial reporting from Sport Northland. We are now just waiting on the invoice from Sport Northland to enable payment to be made.

HEALTH & SAFETY

Kerikeri Swimming Pool							
Accident Type	Oct '21	Nov '21	Dec '21	Jan '22	Feb '22	Mar '22	April '22
Near miss	0	1	0	**0**			
Non serious harm.	0	0	0	**0**			
Serious harm	0	0	0	**0**			
LTI	0	0	0	**0**			
Vehicle / Machinery accident	0	0	0	**0**			
Incident Only	0	0	3	**3**			

- Girls toilet door slammed shut hurting patrons' heel, no first aid required. Phoned contractor to check on delivery date for parts ordered to fix this problem. No date obtained at time of writing.
- Faecal incident found at the end of the day - no down time required.
- Abusive customer threatened staff re vaccine pass. Police called but not required.

Kaitaia Swimming Pool							
Accident Type	Oct '21	Nov '21	Dec '21	Jan '22	Feb '22	Mar '22	April '22
Near miss	0	1	1	**0**			
Non serious harm.	0	0	0	**0**			
Serious harm	0	0	0	**0**			
LTI	0	0	0	**0**			
Vehicle / Machinery accident	0	0	0	**0**			
Incident only	0	2	3	**6**			

- Faecal incident - Main pool, closed @ 5.40pm, reopened 6am next day
- Main valve failure - plumbers unable to find parts, spare valve found on site and adapted to fit
- Faecal incident - Toddler pool, spread to main pool. Closed @ 6pm
- Vandalism - 2 windows smashed in the office area, one in the toilet Friday night after hours. Security on site, Police called. Windows permanently boarded up. Plywood requires painting.
- Vandalism – Hole kicked through outer fibrolite and internal Jib, fortunately this was behind the freezer preventing further entry
- Pool attendant arrived in the morning to find picnic table up the dive board structure.

Kaikohe Numbers							
Accident Type	Oct '21	Nov '21	Dec '21	Jan '22	Feb '22	Mar '22	April '22
Near miss	0	0	0	**0**			
Non serious harm.	0	0	0	**0**			
Serious harm	0	0	0	**0**			
LTI	0	0	0	**0**			
Vehicle / Machinery accident	0	0	0	**1**			

- Sibling rivalry in school Oscar group. One person received a bloody nose, assistance given until bleeding stopped.

COMMUNITY / COUNCIL FACILITIES

OCS Audits

LOCATION	July '21	Aug '21	Sept '21	Oct '21	Nov '21	Dec '21	Jan '22	Feb '22	Mar '22	Apr '22	May '22	Jun '22
Kaikohe Headquarters - Lockwood	95.79	0	97.0	98.0	97.5	98.0	98.3					
Kaikohe Headquarters – Annex and upstairs	96.0	0	96.0	98.0	97.0	98.1	97.8					
Kaikohe Headquarters – Publications	97.3	0	0	98.0	98.0	98.0	96.1					
John Butler Centre – Level 2	95.79	0	97.0	97.0	98.0	97.0	98.4					
John Butler Centre – Level 1	95.6	0	98.0	98.0	98.0	98.0	98.2					
John Butler Centre – Ground floor	96.7	0	97.0	99.0	97.5	99.0	98.9					
Rawene Service Centre	NA	0	0	NA	0	0	97.0					
Kaeo Service Centre and Library	96.0	0	95.0	99.0	0	99.0	98.5					
Procter Library	95.58	0	96.0	99.0	97.0	97.0	97.3					
Paihia Library	95.37	0	0	NA	98.0	98.0	96.5					
Kaikohe Library	97.6	0	0	NA	98.0	0	98.4					
Bay of Islands Information Centre	95.7	0	0	99.0	96.0	97.0	98.7					
Hokianga Information Centre	NA	0	0	NA	98.0	99.0	0					

HOUSING FOR THE ELDERLY

Council own and maintain 147 Housing for the Elderly Units at 12 locations within the district. District Facilities staff are in the process of establishing a programme of 'asset' inspections to be carried out every 4 months. Current vacancy information is below:

		Jan-22	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21
# units vacant *Ready for refurbishing*		1	0	3	0	3	0	3	1	0	1	2	2
	North			Oxford Puckey		Oxford St		Oxford Puckey			Oxford		Puckey
	West			Kaikohe		Rawene		Rawene	Kaikohe			Rawene (2)	
	East	Kawakawa				Kawakawa							Kerikeri
# unit *Upgrades in progress*	TOTAL	5	8	8	11	7	5	5	5	3	4	3	5
	North	Puckey	Awanui (2), Oxford	Awanui (2), Oxford	Awanui (2) Oxford Puckey	Awanui (2) Puckey	Awanui	Awanui	Puckey		Oxford		
	West	Rawene, (2), Waima, Omapere	Waima, Rawene, Kaikohe (2), Omapere	Waima, Rawene, Kaikohe (2), Omapere	Waima Rawene (2) Kaikohe (3) Omapere	Waima Rawene Kaikohe Omapere	Waima Kaikohe Omapere	Waima Kaikohe Omapere	Waima Kaikohe Omapere	Waima Omapere	Waima Omapere	Waima Omapere	Rawene (2) Waima Omapere
	East						Kawakawa	Kawakawa	Kawakawa	Kawakawa	Kawakawa	Kawakawa	Kawakawa
# units completed *(returned for tenanting)*	TOTAL	2	1	1	1	2	3	0	3	2	1	0	0
	North			Ahipara	Oxford		Awanui, Puckey		Oxford Awanui	Puckey	Oxford		

	West		Kohukohu			Kaikohe (2)	Rawene		Kaikohe	Kaikohe			
	East	Kawakawa (2)											

Kawakawa

Unit 1: Vacant unit – painting has been completed on this unit marking the unit available for renting.

Unit 5: Following a small flooding incident reported on 24 Dec 2021, the carpet in the bedroom and lounge areas have been uplifted and replaced. Tenant has returned to this unit.

Waima

Unit 2: This unit experienced a leak from the washtub and shower base. Unit inspected and found remaining work needed to shower lining, new vinyl & some minor repairs. Contractor has scoped and priced remedial repairs. Works expected to be completed by end of March.





Unit 2, Waima washtub removed, damaged wall lining, and flooring replaced

COUNCIL / COMMUNITY BUILDINGS

Pioneer House, Kaitaia

An update is required from the Te Ahu Museum Trust about the future occupation of Pioneer House.

Annual Community Hall Information

Letters have been sent to the Hall Committees requesting their 2020/21 annual information. Further requests and reminders continue. It is planned that this information will be presented to the Community Board's March / April meetings.

Cherry Park House

An investigation is underway determining whether a BWOF is required or not. The result of this should be available before the end of February 2022. Discussions will also be had as to the status of their occupancy and the future direction / use of Cherry Park House.

BUILDING WARRANT FITNESS COMPLIANCE (BWOF)

Council manage the BWOF compliance of 18 sites spread across the district. Facility uses range from Community Halls, Councils Offices, sports complex and others.

BWOF status for JANUARY

Site Name	Ward/Area	Address	Expiry date	Testing frequency	STATUS
Oruru Community Hall	NORTHERN	**SITE CLOSED**	**SITE CLOSED**	**SITE CLOSED**	**SITE CLOSED**
Procter Library	EASTERN	Cobham Road	11-Dec	Monthly/Annual	Compliant
Kerikeri Sports Complex	EASTERN	27 Waipapa Rd	5-Dec	Monthly/Annual	Compliant
Rawene Service Centre	WESTERN	Parnell St	31-Oct	Monthly/Annual	Compliant
Kaitaia Resource Recovery Centre	NORTHERN	Tahuna Rd	27-Oct	Monthly/Annual	Compliant
FNDC Kaikohe HQ	WESTERN	Memorial Ave	31-Jul	Monthly/annual	Compliant
Lindvart Park Pavilion	WESTERN	Penny Cress	16-Jul	Monthly/ Annual	Compliant
Awanui Sports Complex	NORTHERN	94 State Highway 1	30-Jun	Monthly/Annual	Compliant
Totara North Hall	NORTHERN	Totara North School Road	1-May	Monthly/Annual	Compliant
Kaeo Community Hall	EASTERN	State Highway 10, Kaeo	30-Apr	Monthly /Annual	Compliant
Opononi RSA Hall	WESTERN	15 State Highway 12	30-Apr	Monthly /Annual	Compliant
Mangonui Hall	NORTHERN	130 Waterfront Drive	30-Apr	Monthly /Annual	Compliant
Rawene Community Hall	WESTERN	9 Parnell St	30-Apr	Monthly /Annual	Compliant

Site Name	Ward/Area	Address	Expiry date	Testing frequency	STATUS
Herekino Hall	NORTHERN	Kaitaia-Awaroa Rd	30-Apr	Monthly /Annual	Compliant
Russell Community Hall	EASTERN	17 The Strand	30-Apr	Annual	Compliant
Kaikohe War Memorial Hall	WESTERN	Memorial Ave	30-Apr	Monthly /Annual	Compliant
Waipapa Hall	EASTERN	Waipapa Loop Rd	28-Mar	Monthly/Annual	Compliant

LEASES

Leases will now be managed by the new Property Officer and a handover continues. District Facilities will be responsible for Agreements and any repairs and maintenance associated with leases.

SERVICE DELIVERY REVIEWS AND CONTRACTS

Task	Purpose	Completed	Issues preventing Progress	Indicative Completion Date	What's Next
Extend Solid Waste Contracts (North and South)	Contract extension agreements for Council for approval	• Date set to commence formal discussions 3 March 2022	NIL at present	June / July 2022	• Contract extension discussions
Extend Waste Education Contract	Renewal of Contract – Build in flexibility re solid waste reforms, regional initiatives, S17A review and Solid Waste Management and Minimisation Plan (Strategy)	• Formal notification to Eco Solutions, date in March to commence discussion	NIL at present	July 2022	• Eco Solutions to put forward their proposal
Solid Waste S17A review	Commence in February, Steering Group formed, Project Team in place, and engagement of professional services	• Steering Group TOR drafted. Date set for initial Steering Group Meeting • Date set for initial Group meeting • Statement of Work completed for engagement of consultants • Four EMs workshops requested as part of the S17A review and contract award	NIL at present	June/July 2022	• Engagement of Consultants • Prep for initial EM's Workshop and commencement of S17A review
New Solid Waste Contracts	Public Tender	• This will be commenced following the S17A review		Nov 2022 to Feb 2023	
Solid Waste Contracts	Council Award of Contracts, followed by transition to new model	• This will be completed after preferred suppliers are selected from tender		June 2023	
Extend Recreation Services Contract	Renew contract for a further 2 years to June 2024	• Initial discussion with contractor RSL • FNDC amendments being documented and analysed	NIL at present	June 2022	• 2nd meeting with RSL scheduled, FNDC amendments and additions documented and costed – Mid March 2022

PROVINCIAL GROWTH FUND (PGF) ROADING

EXECUTIVE SUMMARY

In August of 2020 MBIE granted $20.7 million to undertake works on three strategic roads in the Far North District. The projects are split in two, with Peria Road and Ngapipito Road combined into one package (Priority 1 Routes) and Ruapekapeka Road being the other. Planning commenced immediately, with early site investigation and testing setting the projects up for the best outcomes from the start.

All three projects are being delivered with a staged programme; design for initial stages will allow earlier construction, with design of subsequent sections continuing concurrently. Early enabling works set the project teams up well to achieve construction deadlines.

At Peria Road, the seal extension works have been completed and the bridge strengthening works has commenced. The slip repair work is due to start in February.

At Ngapipito Road, the final section has been sealed and all that is outstanding now is the final culvert replacement that will take place once consent is granted in the New Year.

Ruapekapeka Road, Stage 2 construction is progressing with earthworks coming to an end, the implementation of drainage and a new retaining wall are well underway ready for pavement works, commencing widening & formation at the state highway end of Ruapekapeka Road.

SUMMARY – JANUARY

Priority 1 Routes

Peria Road

Peria Road is a 6.3km seal extension and associated works. It is being delivered through the existing NTA North Area Road Maintenance Contract by Fulton Hogan.

The seal extension at Peria Road was split into 5 sections, with all five now sealed. Widening for safety improvements have been undertaken this month.

Geotechnical designs and pricing for 2 slip repair sites is well underway. A significant slip on Fairburn Road reduced the road to a single lane in October. This is technically outside of the scope of work for the PGF project, but we continue to work closely with the NTA to ensure this slip is repaired early in the New Year.

Bridge upgrades

The bridge strengthening works has commenced, including the 'full deck replacements' on 4 bridges, and the 'specialist structure improvements' on a further 4 bridges on this priority 1 route from SH1 Fairburn Road to SH10 Oruru Road.

Package 1 (deck replacement works) has commenced with the construction of the new deck panels offsite, and the installation is programmed for February 2022, with planning being undertaken now regarding the road closures.

Ngapipito Road

Ngapipito Road is a 5km seal extension and associated works. It is being delivered through the existing NTA South Area Road Maintenance Contract by Ventia.

Despite the poor weather experienced this spring, all sections have now been sealed, achieving the December milestone. The large culvert replacement that was waiting for the resource consent process to be completed is now programmed for construction next month with the consent approval received in early February.

Ruapekapeka Road

Stage 1 – Physical works are now complete for stage 1.

Stage 2A – Physical works have progressed well through January 2022. The project delivery team have had to work very collaboratively to achieve some of this month's programmed milestones.

The positioning and implementation of the new retaining wall is on programme, drainage works continue as the team resolve any design changes required due to the actual capability needs found onsite.



New retaining wall progressing

At the top end of Ruapekapeka Road, several large rocks/boulders were located within the existing bank being excavated, certain rocks have been identified as significant and therefore all efforts must be taken to avoid breaking or damaging them. Proposed methodology and placement for relocating and/or reusing the identified rocks has been presented to Te Ruapekapeka Trust for approval. This includes 8 significant rocks, the largest estimating 40tonne, 3 of which will be relocated on site as features and 5 will be rolled back into the embankment as close to their natural position as possible.





Significant rocks (of archaeological importance) are Identified and numbered so relocation methodologies can be proposed.

The majority of the culverts have been installed, with the largest 2100 diameter installed in December.

During an inspection this month a defect in one section of the pipe was identified, the supplier has confirmed that the defect occurred during manufacture and will therefore remove and replace this section of pipe, United's (main contractor) is working directly with Hynd's (supplier) to resolve this issue.

This rework will need to be delivered during February to avoid any impacts to the programme critical path.



Culvert 2100 Ø in place awaiting the replacement to one section of pipe

Consultation with affected landowners is ongoing, all affected properties have their own challenges which we work through independently with each landowner. As we confirm and finalise the design and final proposed road layout outside each of their properties and move forth with delivery more challenges are expected for the contractors as they coordinate property access constraints with owners to avoid disrupting milk tanker timetables and farming access needs.

Stage 2B includes the State Highway 1 intersection improvements, this scope of work has been separated from the seal extension contract. The design of the intersection improvements has been completed; this includes road widening for a northbound right turning bay into Ruapekapeka Road. Physical work is expected to start in March 2022. The design includes shifting the roadside stream slightly back to allow room for the road widening. Due to the location and integration of the roading asset (Ruapekapeka Road intersecting with state highway), the resource consent application has been collaboratively prepared and reviewed by both NZ Transport Agency and Far North District Council.



Traffic management located next to the Pa

Priority 1 Routes

We will not achieve the completion milestones due to Covid impacts, including material supply delays for bridge strengthening works and specialist contractors for slip repair works are based outside of the Northland Region.

A request has been made for a variation to the funding agreement to extend this date to **30 June 2022**.

▶ **Priority 1 Routes Programme Milestones**

Deliverable	Original Completion Date	Variation Completion Date	Status
• Funding Agreement executed by both parties. • Investigation and design underway. • Stage 1 construction underway. Enabling works (vegetation clearing, earthworks, widening and drainage) commenced before 1 September 2020.	August 2020	Achieved	

▶ Priority 1 Routes Programme Milestones			
Deliverable	**Original Completion Date**	**Variation Completion Date**	**Status**
• ECI agreement in place • Stage 1 investigation and design complete	30 September 2020	Achieved	
• Stage 2 design complete • Stage 2 construction underway	31 December 2020	15 March 2021 - Achieved	
• Stage 2 construction complete	31 March 2021	30 November 2021	
• Final completion of surfacing MSQA reporting and monitoring paperwork	30 June 2021	30 December 2021	

Ruapekapeka Road

We have requested a variation that relates to the completion dates for Stage 2 works. This includes moving the completion dates for Stage 2 Construction complete, and Final completion of surfacing to **April 2022.** In addition to the milestone variation, we have also formalised the funding reallocation request.

▶ Ruapekapeka Road Programme Milestones			
Deliverable	**Original Completion Date**	**Approved Variation Completion Date**	**Status**
• Funding Agreement executed by both parties • Investigation and design underway	August 2020	Achieved	
• ECI agreement in place • Stage 1 investigation and design complete • Stage 1 construction underway. Enabling works (vegetation clearing, earthworks, widening and drainage) commenced before 1 September 2020.	30 September 2020	Achieved	
• Stage 2 design complete • Stage 2 construction underway • MSQA reporting and monitoring paperwork	31 December 2020	28 February 2021 - Achieved	
• Stage 1 construction complete • MSQA reporting and monitoring paperwork	31 December 2020	30 October 2021	
• Stage 2 construction complete • MSQA reporting and monitoring paperwork	31 March 2021	30 November 2021	
• Final completion of surfacing • MSQA reporting and monitoring paperwork	30 June 2021	30 December 2021	

FINANCIAL OVERVIEW

▶ Priority 1 Routes	
Total Claimed to Date	$9,563,873
Total Contract Value	$14,200,000
▶ Ruapekapeka Road	
Total Claimed to Date	$ 2,299,392
Total Contract Value	$6,500,000

The Redevelopment of Strategic Roads - Priority 1 Roads Project has identified savings in both the 'bridge strengthening' and 'intersection improvements' scope of work. This 'surplus budget' has been identified for reallocation to support the budget deficit identified for the Redevelopment of Strategic Roads - Ruapekapeka Road Project.

KEY RISKS AND OPPORTUNITIES

The following risks have been identified for Peria Road and are being actively managed:

1. Covid-19 Alert Levels – Recent alert level changes and lockdowns will impact on programme deliverables, material supplies and increased costs.
2. Material supply delays and increased cost associated with the bridge strengthening works (deck replacements), which includes reinforcing steel in large quantities. We have asked our designers to quantify these materials early and investigate with suppliers prior to engaging contractors.
3. Damage from storm/rainfall events – Recent rainfall events in Peria and Ngapipito Road have caused slips and washouts requiring repair works.

The following risks have been identified for Ruapekapeka Road and are being actively managed:

1. Covid-19 Alert Levels – Recent alert level changes and lockdowns will impact on programme deliverables, material supplies and increased costs.
2. Utilities assets (potential risk of relocation of Fibre Optic Cable and Power Poles) – Identify early during set-out and survey phase.
3. Stakeholder expectations (landscaping, parking, artwork etc.) - Communicate the scope and budget limitations and work with stakeholders to identify priorities and opportunities during design and construction.
4. Archaeological Discovery – The projects kaitiaki provides cultural monitoring onsite and an archaeologist has been engaged if any discoveries are made. Accidental discovery protocols are in place. The process for initially deciding if the bones are of significance appears to be efficient, which will minimise any unnecessary delays.

STAKEHOLDER COMMUNICATION

Landowner consultation is ongoing along Ruapekapeka Road. Some properties are significantly affected by the proposed works, these landowners have provided approval as 'affected parties' to complete the consenting process. Discussions will continue throughout project delivery to keep residents updated on the construction programme.

The project delivery team has been setup to work collaboratively, the team includes project management, engineer's representatives, design support and contractors. The contractors have formed good relationships with the Kaitiaki and the Northland Regional Council representative, and several on-site visits have already progressed.

Consultation has continued this month with Te Ruapekapeka Trust regarding the location of the new Pou and the general layout of the SH1 intersection design.

BROADER OUTCOMES

The following figures reflect the broader outcomes we're achieving with this project.

	Total people working	Total created roles	Total expected future jobs
Priority 1 Routes	49	39	13
Ruapekapeka Road	53	43	8

TE HIKU O TE IKA REVIATLISATION

EXECUTIVE SUMMARY

The $7M Te Hiku Revitalisation Project has been funded by the Shovel Ready Infrastructure Projects. This fund aims to provide an immediate boost to industries who have been greatly impacted by COVID-19.

This project consists of multiple smaller projects, including new shared paths, cultural art structures, playground and park improvements, streetscape works in Kaitaia, Awanui and Ahipara.

Overall, the project aims to provide:

- An immediate extra demand for design services for local / national consultants and surveyors, all of whom are facing reduced workloads due to Covid-19.
- Local suppliers – concrete plants, quarries for aggregate material, building materials merchants, native wood for carving, local eco-sourced plants, design and signage suppliers for the info plaques and art pieces in the streetscapes and along the shared paths.
- A substantial portion of work in terms of size and cultural significance for the local iwi in the area, artists and carvers – Māori employment from local Iwi and apprentice artists and carvers.
- A wide range of construction work suiting local contractors and supply chains, local contractors are encouraged to employ unskilled workers to upskill – concrete layers, labour for plantings, labour to establish recreation equipment within open spaces, machinery operators, new apprentice concrete layers, engineering and designers for specific design of the cycle trail location etc.
- Continuity of work for council technical staff.

This scope of works has been funded with the expectation that the project be completed by November 2022 (Variation to the funding agreement with MBIE has been approved).



Site prep completed for Allen Bell Park

SUMMARY – JANUARY

Contractors went back to work for the 2022 year on 10 January so with our Northland Anniversary Day we only got 15 working days for this month.



Security fencing about to go up from Onsite Access

KAITAIA UPDATES

ALLEN BELL PARK

Site preparation has been completed by another up and coming small Māori business owner, Johnny Williams based in Kaeo. Williams Contracting has the job to prepare the sites for both Allen Bell Park and Korora Park ready for installation in February.

KAITAIA DIGITAL NOTICEBOARD

The digital noticeboard was installed on 17 January and after a few power issues that kept blowing, we were able to get it live from 24 January. Interest is picking up among businesses who are getting their signs or billboards created to advertise on this sign. So far we have 7 businesses signed up paying for monthly advertising space. Printing.Com have been very helpful in this space to get the Kaitaia Business Association up and running to manage this effective notice board. At this stage we haven't had any take up by community or not for profit organisations, apart from the Doubtless Bay Festival who had arranged a sign before it went live and then had to have it adjusted to say EVENT CANCELLED due to the traffic light rules.



TOWN SQUARE

Progress has been made between Foodstuffs and FNHL so some members of the PWG group met with Andy Nock to discuss our town square plans once we got an idea of where the plans were headed by FNHL.

These are only in draft stages and will be shared with the PWG at their next meeting to discuss the proposed plans below. The Te Hiku Community Board have approved a few parklets for the main street of Kaitaia and the largest one is outside this entrance.

The plan includes seating, shade, green space (artificial grass for ease of maintenance) and cultural artworks on the existing framework that used to house the Pak'n'Save signage. The shape of Kaitaia is a triangle so the use of triangles is a clever way to create interest with the shapes and to divide seating areas creatively.



BEAUTIFUL TOWNS AWARD

Members of the PWG, John Patai, Andrea Panther, Adele Gardner and Felicity Foy spent time with the FNDC communications staff being filmed to put a thankyou speech together for the awards ceremony on February 17th. Due to covid restrictions, award winners will be unable to go up on stage to receive their award so this has been done in preparation. We will not know who takes out the win until the evening in Wellington.







AWANUI UPDATES

The water fountain at the BBQ was installed. Hopefully this encourages a clean up after use of the BBQ area. Plans are underway for further historic pictures to be installed in shop windows (separate to business branding). There are plans for bus shelters and a digital sign too.

A resource consent is in the process of being applied for to cover the pumptrack, half-court basketball, cultural artworks and new 2.2m curved footpath linking the new park to these areas and to the new carpark in the road reserve.

Palisade samples are being worked on and once the lighting options are sorted, these are nearly ready for installation along the reserve on SH10.



Concept plan for Bus Shelter design and digital sign (location to be confirmed)



Concept plan of empty shop window showing history of Awanui (separate of business logos)

AHIPARA UPDATES

KORORA PARK

The community have been requesting a water fountain at the pump track so as we had already planned to install a potable water supply to go near the BBQ, Kaitaia Plumbing were able to make this happen in January. The rubbish bin is high on the list of priorities for the community and the process of requesting a new one is getting closer.



New tank being installed to increase pressure



Water fountain at Pump Track

KORORA STREET CLOSURE

Consultation has taken place over December and January to 29 residents who live in Korora Street. Below is a draft after many residents had given excellent feedback on improvements to the concept plan which started with closing the road at both ends with two smaller carparks. Residents asked for one large carpark and only one end closed with a rock garden rather than a fence to block it off. Two residents offered to keep the garden maintained. Only one household owner (who resides in Auckland) so uses property as a bach, objected to the road being closed and preferred a number of judder bars to slow the traffic down as they still

preferred to access the beach through Korora St rather than using Kakapo St behind. The plan along with comments from residents has been passed to NTA for approval.



FORESHORE ROAD

Northscape have quoted to install this post and rope barrier fence along Foreshore where the footpath runs paralel to the road. Cars continue to park in this area causing pedestrians to walk out around them onto the road. Northscape are just working on completing their sitewise qualification to be able to be awarded this work.



PROGRAMME OVERVIEW

The current programme aligns closely with the deliverables specified in the project agreements shown in the following table, however we have still not spent the funds we had planned at this time. Much of this is due to the designers, surveyors and engineers being unable to meet our timeframes with their current workloads combined with Covid Lockdown delays.

▶ Te Hiku O te Ika		
Deliverable	**Completion Date**	**Status**
• The agreement executed by both parties. Project is 'shovel ready'	30/10/2020	
• Surveying, detailed plans and preparation for works at Ahipara, Awanui and Kaitaia.	28/02/2021	
• Awanui carpark & playground underway • Ahipara carpark and playground underway	30/05/2021	
• Market square completed	31/01/2022	
• Awanui carpark and playground completed	31/01/2022	
• Streetscaping completed Awanui and Kaitaia	31/01/2022	
• Pump track completed in Kaitaia and Ahipara	31/01/2022	
• Ahipara walkways, Ahipara Streetscaping and Ahipara carpark and playground completed • Recipient to provide evidence to the Ministry that the previous instalment has been spent.	31/03/2022	
• Kaitaia River walkway and cultural art erected	30/4/2022	
• Awanui Boardwalk completed	31/08/2022	
• Kaitaia Town square complete	30/09/2022	
• All works completed and project finishes	30/11/2022	

FINANCIAL OVERVIEW

▶ Te Hiku O te Ika	
Contract	
December Claim Amount	**$267,665.28**
Total spend to date	$2,610,824.98

KEY RISKS AND OPPORTUNITIES

The following risks have been identified for Te Hiku Revitalisation Project and are being actively managed:

1. Covid-19 Alert Levels

   Recent alert level changes and lockdowns will obviously impact on programme deliverables, material supplies and potentially higher costs for physical works. The Far North area had extended lock down periods in November and our Northland region is the only one in red in the entire country.

2. Professional Services

The workloads of engineers for detailed design is high and they are unable to meet our demands for the timeframes we are requesting. The delays are flowing down to procurement plans, quotes and engaging contractors to carry out the project work.

3. Cultural Artworks

   The iwi have had some internal issues which has had a flow on effect to the production timeframes for some of our cultural gateway work. With the extended covid lockdown periods in the 2021 year and supplier issues, there is a high risk the cultural gateways may not be erected by our March deadline. We will also rely on engineers to come back with designs approved by NZTA/NTA in some places and Top Energy to move power poles in Ahipara.

4. Social Procurement Process

   The kaupapa of the social procurement outcomes has proved to be challenging in terms of the extra time and follow up the project managers are required to do with less experienced businesses carrying out the contract works for these projects. It has highlighted the need for business management support that potentially is an opportunity for the Te Hiku Development Trust or Amotai to follow up.

5. Financial reporting

   The lack of financial data passed on at the end of each month is becoming a challenge when trying to accurately report to MBIE regarding the expenditure of the Kanoa funding for the project. Project managers are having to estimate expenditure for MBIE reports, which is not desirable.

BROADER OUTCOMES

This project is all about achieving Broader Outcomes for the Far North community, with aims for specific outcomes detailed in the following section. The project team have spent a significant amount of time undertaking consultation prior to the project starting to understand and manage expectations. There are also regular updates in the local newspaper.

Social Procurement

One of the biggest drivers for this project is achieving social procurement outcomes. All companies and individuals engaged to date are Northland based, and are predominantly from the Far North. The project is still governed by FNDC's procurement policies, and threshold values for supplier selection are adhered to.

Continued management of social procurement processes will ensure these outcomes are achieved.

Local Iwi partnerships

The project working group includes local Kaumatua who liaise with local Iwi for creation of cultural art installations. We are trying to arrange regular meetings to keep abreast of progress for all gateways.

Upskilling the local workforce

FNDC and the project team have set up an initiative to assist local, smaller contractors achieve Sitewise accreditation who don't currently meet this prequalification criteria. To date, 32 contractors have registered for this assistance and 14 have achieved Sitewise since last November. In addition to allowing them to work on this project, this accreditation will prequalify them for future continued work with FNDC. Through this process these contractors will be upskilled specifically in the Health and Safety at Work Act and their systems and processes will improve, resulting in safer workplaces. In addition we have put 32 people through Working at Heights, MEWP and Management and Handling of Hazardous Substances.

As a continuation to this, contractors unfamiliar with FNDCs reporting and financial requirements will be coached to ensure their systems support timely payment of claims and accurate reporting.

CIVIL DEFENCE EMERGENCY MANAGEMENT

Providing leadership in reducing risk, being ready for, responding to and recovering from emergencies.

NATIONAL EMERGENCY MANAGEMENT AGENCY UPDATE (NEMA)

The NEMA Regional Partnerships unit underwent a change process in 2021. The change was informed by a stakeholder survey that was conducted among CDEM Groups to determine their expectations of NEMA.

The change decisions included the establishment of a new Regional Engagement Team, including the establishment of several new positions in the team.

The change process has now culminated in a re-set of the NEMA engagement approach towards CDEM Groups, drawing from the findings obtained through the stakeholder survey. In association with the future engagement approach the allocations of the Regional Emergency Management Advisors (REMAS) were also concluded, recognising that individually new staff bring unique qualities and relevant work experience that will complement collective capability.

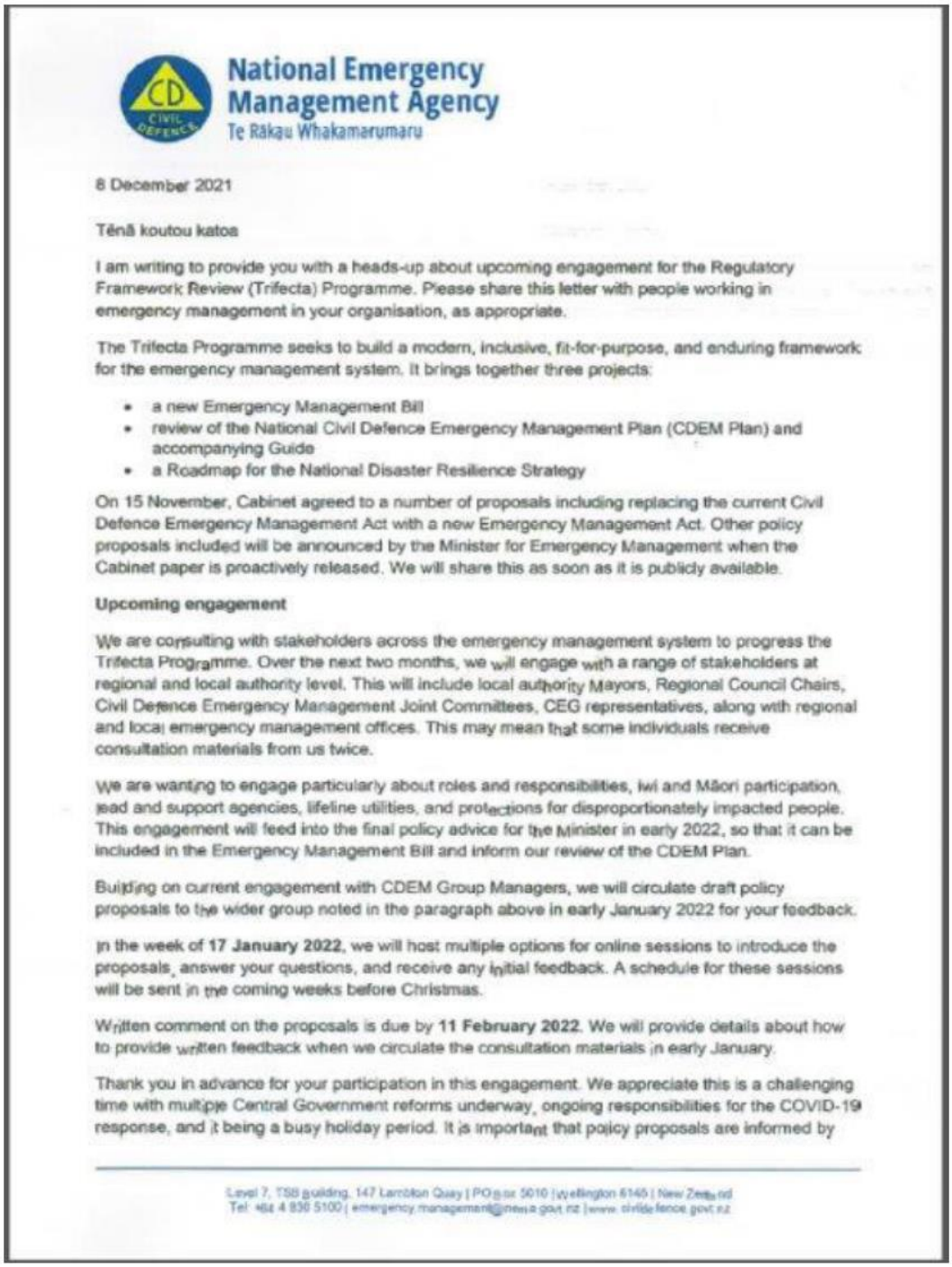
NEMAs future engagement approach will aim to focus on both strategic and operational levels, in accordance with their capacity and Group needs. The engagement approach will be reviewed regularly, with the first review by the end of the first quarter in 2022 to take account of observations gained since its implementation as well as changing circumstances with individual Groups and NEMAs capacity. There-after it will be reviewed quarterly to take account of new Group dynamics or needs. To help give effect to the intended approach, NEMA will draw on the collective capacity of the Regional Engagement Team and where applicable, the wider organisation.

Two REMAs will be assigned to each CDEM Group as follows:

1. A 'Focal Point': -as the primary contact for the CDEM Group, this person will maintain relations at all levels. Working with the Group Manager, they will lead planning for and coordinate the delivery of NEMAs engagement.
2. A 'Support': - this person will take an active involvement in the Group at either advisory or operational level to support the engagement – as agreed with the Focal Point.

Depending on the need, NEMA may also assign other staff as part of their engagement plan for a specific Group. The re-set will be concluded by 1 February 2022. This means the transition of REMA focal points will happen over this time; some will be concluded sooner than others depending on practical and other considerations.

A letter has been sent from NEMA to Mayors and Chief Executive Officers of Local and Regional Authorities providing a brief overview of the Regulatory Framework Review (Trifecta) Programme and outlining engagement proposals and timelines as part of the engagement process to inform both policy advice for the Minister and the review of the National CDEM Plan. (Letter attached)



National Emergency Management Agency
Te Rākau Whakamarumaru

8 December 2021

Tēnā koutou katoa

I am writing to provide you with a heads-up about upcoming engagement for the Regulatory Framework Review (Trifecta) Programme. Please share this letter with people working in emergency management in your organisation, as appropriate.

The Trifecta Programme seeks to build a modern, inclusive, fit-for-purpose, and enduring framework for the emergency management system. It brings together three projects:

- a new Emergency Management Bill
- review of the National Civil Defence Emergency Management Plan (CDEM Plan) and accompanying Guide
- a Roadmap for the National Disaster Resilience Strategy

On 15 November, Cabinet agreed to a number of proposals including replacing the current Civil Defence Emergency Management Act with a new Emergency Management Act. Other policy proposals included will be announced by the Minister for Emergency Management when the Cabinet paper is proactively released. We will share this as soon as it is publicly available.

Upcoming engagement

We are consulting with stakeholders across the emergency management system to progress the Trifecta Programme. Over the next two months, we will engage with a range of stakeholders at regional and local authority level. This will include local authority Mayors, Regional Council Chairs, Civil Defence Emergency Management Joint Committees, CEG representatives, along with regional and local emergency management offices. This may mean that some individuals receive consultation materials from us twice.

We are wanting to engage particularly about roles and responsibilities, iwi and Māori participation, lead and support agencies, lifeline utilities, and protections for disproportionately impacted people. This engagement will feed into the final policy advice for the Minister in early 2022, so that it can be included in the Emergency Management Bill and inform our review of the CDEM Plan.

Building on current engagement with CDEM Group Managers, we will circulate draft policy proposals to the wider group noted in the paragraph above in early January 2022 for your feedback.

In the week of **17 January 2022**, we will host multiple options for online sessions to introduce the proposals, answer your questions, and receive any initial feedback. A schedule for these sessions will be sent in the coming weeks before Christmas.

Written comment on the proposals is due by **11 February 2022**. We will provide details about how to provide written feedback when we circulate the consultation materials in early January.

Thank you in advance for your participation in this engagement. We appreciate this is a challenging time with multiple Central Government reforms underway, ongoing responsibilities for the COVID-19 response, and it being a busy holiday period. It is important that policy proposals are informed by

Level 7, TSB Building, 147 Lambton Quay | PO Box 5010 | Wellington 6145 | New Zealand
Tel: +64 4 830 5100 | emergency.management@nema.govt.nz | www.civildefence.govt.nz

your voices, and there will be further opportunities for engagement on non-legislative reform throughout 2022.

Thank you also to those of you who have been involved with this work to date. Your contributions have been critical in the development of the draft policy proposals and we will continue to build on what we have heard so far in the upcoming engagement.

Further information

Further information on the Trifecta Programme is available at https://www.civildefence.govt.nz/cdem-sector/regulatory-framework-review-trifecta-programme/

We have recently published an A3 one-pager that provides a high-level overview of the Programme and its three projects. This document is available at the above link under 'Programme Resources'.

If you have any questions about the Programme please email trifecta@nema.govt.nz

Ngā mihi nui



Adam Allington

Menetia, Wāhanga Kaupapahere, Te Rākau Whakamarumaru
Manager, Policy Unit, National Emergency Management Agency

NORTHLAND CDEM GROUP UPDATE

A review of the Northland CDEM Group Plan carried out by the CDEM Group professionals has been completed. The review process included a key stakeholder workshop, a five-week public consultation period, the inclusion of a new section for Māori Engagement, and a series of amendments being made to the plan. As prescribed in the Civil Defence Emergency Management Act, s. 49, the proposed plan was sent to the Minister for Emergency Management for comment. The Ministerial and NEMA feedback and recommendations received have been included in the final document.

The Minister, Hon Kiritapu Allan, acknowledged the inclusion of a section in the plan specifically for Māori Engagement and commended the Group's enthusiasm and commitment to CDEM with a view to the pending work on new legislation in the emergency management sector.

Copies of the Northland CDEM Group Plan are available on the Northland Regional Council website or by accessing the following link:

https://www.nrc.govt.nz/media/luegn0l3/northland-civil-defence-emergency-management-group-plan-2021-2026.pdf

The Governments approach to COVID-19 and the Omicron Variant Response is ongoing and still developing and (at the time of this report) details are still to be confirmed and a national protection framework is still to be announced. Both COVID-19 and the Omicron Variant will become an endemic threat which will continue to impact the most vulnerable within our communities particularly in Northland.

The Northland Lifelines Group is undertaking an Infrastructure Climate Change Risk Assessment. (CCRA) Project. A tender process has been undertaken and Request for Proposal (RFP) was sent to four suppliers with 3 responding. The successful tenderer being Tonkin and Taylor Ltd.

The CCRA is intended to cover the direct climate change impacts on lifeline utility assets and services (exposure, vulnerability, and risk), not the consequential impacts on communities. The information provided through this project will inform detailed community impact assessments being undertaken by the Far North, Kaipara, and Whangarei District Councils.

Tonkin and Taylor have integrated the lifelines group requirements with lessons identified whilst undertaking the Bay of Plenty Lifelines CCRA, to best achieve an efficient method that delivers on Northland Lifelines desired outcomes.

- Phase 0: Project kick off and wider project management
- Phases 1 & 2: Undertaking the spatial risk assessment
    - Risk assessment design
    - First pass spatial exposure assessment
    - Detailed spatial risk assessment
- Phase 3: Undertaking the non-spatial risk assessment
- Phase 4: Report detailing the methodology and results

Continued and ongoing Iwi engagement and participation with the Te Hiku Delta Response Group in response to COVID-19 has been undertaken to encourage and assist with personal, community and Marae preparedness.

Meetings have also been undertaken with Te Kahu o Taonui (TKoT) representatives and the Group Manager – Community Resilience that identified the need of enabling whānau improved access to welfare support during emergencies. This meeting helped shape the scope and focus area – initially being the Far North.

The aim is to identify what welfare support services are available from key stakeholders during emergencies, what the triggers are to make support available, determine why whānau/families may not have been able to access support when required, what the potential solutions are, and how agencies can enable this support during emergencies.

The workshop will have representation from multiple supporting agencies, as well as essential representation from key Far North stakeholders, providing on-the-ground situational insights.

The key outcomes from this workshop are:

- to develop an information sheet of solutions identified.
- to provide better networks of key stakeholders with the relative agencies, and
- an improved level of access to welfare support for whānau/families.



The Northland CDEM Group were requested to support Fire Emergency New Zealand at a wildfire at Kaimaumau on 19 December. An urgent call was received by the CDEM on-call duty officer on Sunday 19 December at 2000hrs advising immediate evacuation of the village was required due to a change fire behaviour and an out-of-control wildfire threatening the village. Civil Defence Officers activated the Kaimaumau Community Response Plan which allowed the community to follow their predetermined emergency response to evacuate the community. Civil Defence was able to provide support with immediate welfare needs for those displaced for the 4 days of the initial evacuation and have provided ongoing support to Fire Emergency New Zealand's tactical response and the community as the situation has developed and further evacuations have been ordered as the fire has reached pre-determined trigger points.

Kaimaumau Fire Stats – *as of date of report*

***Land Status*:** The land involved is public conservation land – jointly managed between local Iwi Ngai Takoto and Department of Conservation. Also involved is private property including Iwi owned land, commercial orchards, and grassland farms

Coverage area: 2401ha

Fire Perimeter: 50 Km

Number of on the ground Firefighters: x 75

Incident Management Team: x 70

Helicopters: x 11

Heavy Machinery: x 9 (Bulldozers and Excavators)

Participating Agencies and Stakeholders: include - Fire Emergency New Zealand, NZ Police, Northland Civil Defence, Department of Conservation, New Zealand Defence Force, NZ Urban Search and Rescue, Far North District Council, Kaimaumau Community, Waiharara School, Wharemaru hapu o Kaimaumau, Te Iwi o Ngai Takoto, Whakawhiti Ora Pai, Top Energy, Waka Kotahi.

Community Response Planning remains a priority for the Northland CDEM Group and is a key part of *"Readiness"* in the Northland CDEM Group Plan - 2021-2028. (Section 6) The urgent and immediate response required by emergency services to evacuate the entire Kaimaumau village due to the threat to life and property by fire on 19th December has again highlighted the value of Community Response Plans, particularly when an unplanned and rapidly developing event occurs.

The key aim of community response planning is to:

- Help the community identify and manage hazards applicable to them
- Promote personal and community resilience
- Assist communities to prepare for an initial emergency response
- Connect communities to the Northland CDEM Group.

The Community Response Plan for Kaimaumau was reviewed by residents supported by CDEM in July 2021. Amendments and updates to the plan were made after the communities' response to the March 2021 Kermadec tsunami warning and lessons learnt from that event.

It has enabled the Kaimaumau / Waiharara Community, Iwi and Hapu to play an integral part in providing agreed supporting roles to Fire Emergency New Zealand in the management and ongoing effort to suppress and ultimately extinguish this fire.

Community / Iwi/Hapu roles and responsibilities have included:

- Providing advice on local services to support the Incident Management Team
- Community Patrols in restricted active fire areas
- Providing cultural advice to the Incident Management Team
- Assistance with accommodation options
- Catering Support
- Welfare Support

Overall, the response to this incident has been community and Iwi/Hapu led, supported by CDEM and agencies groups. It is likely that this model of involving community in tactical and logistical planning will be adopted by Fire Emergency New Zealand at future large-scale fires across New Zealand.

As the transition from response to recovery progresses, the community and Iwi/Hapu will be involved in the long-term recovery management plan.

Emergency Warnings and Advisories requiring Northland Civil Defence to monitor or support in December:

- COVID19 Variant/ Omicron Variant Response - ongoing
- Kaimaumau Wildfire - ongoing

APPENDICES



DIA FUNDED PROGRAMME

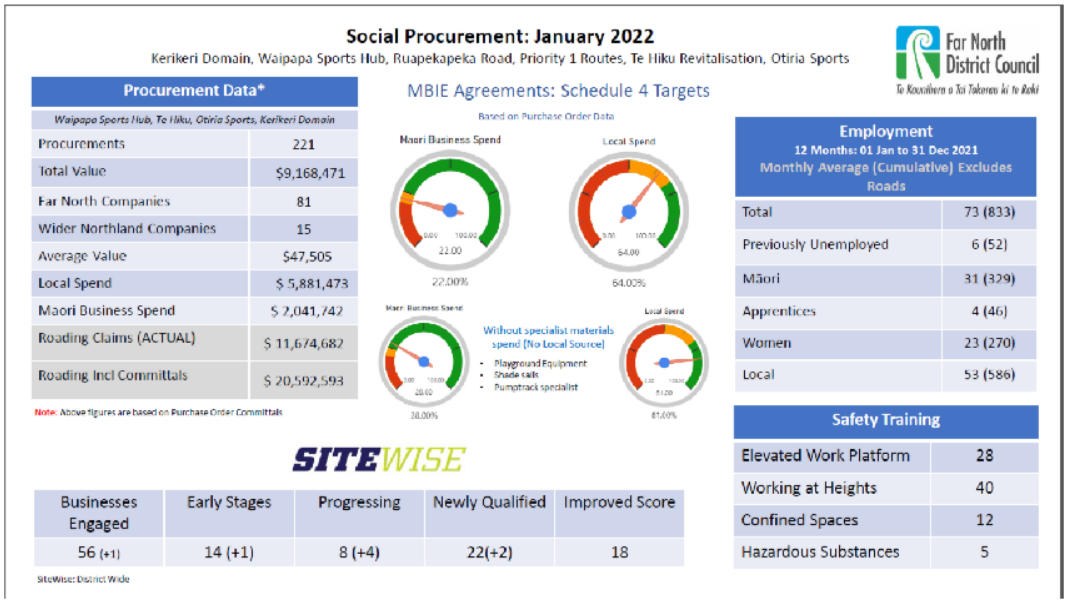
The majority of these projects are reported in the relevant work sections above. This table provides a summary of all the projects in this programme of work. Please note for the DIA has allowed an extension of time for the spending of these funds through to June 2022 but there can be no further extensions beyond this.

	Project	Opex	Capex	Progress	On target?	Commentary
1	**Awanui River Weir**	X		In progress		Scoping and Design complete with procurement approvals now complete. Consent activity agreed and physical works beings scheduled
2	**Enhanced Water Leak Repairs**	X		In Progress		Programme established for Spring/Summer is underway with a first focus on Rawene
3	**Ex Res Chlorine Measurement**	X		In progress		Procurement plan approved hardware ordered. Hardware purchase and 3 plant installs should be covered by this funding. Other installs required for regulatory purposes by 1 July 2022 will be completed under Alliance contract
4	**Monument Hill Deep Bore**		X	In progress		Bore Design, Quality Testing and Sustainable Yield Assessment complete. Reticulation and Electrical Design confirmed; consent application drafted for review – to be lodged
5	**Kaitaia Water - Sweetwater**		X	Complete		This is a DIA contribution to the overall FNDC project. Both pipeline and bore works continue with project completion now scheduled for May 2022. DIA funds fully utilised
6	**Kawakawa Water Take Consent**		X	In Progress		Further testing is required to determine if there is a path to amend this consent. Final results available for assessment in Feb
7	**Kerikeri Clarifier**		X	In progress		Scope is complete and now with delivery for procurement and execution. Procurement plan being finalised. Closed tender process in progress – expectation is that the DIA funds will be spent prior

	Project	Opex	Capex	Progress	On target?	Commentary
						to June 2022
8	**Leak Detection Equipment**		X	Complete		To support Project 2, this equipment has been purchased
9	**Network Model Review Lead**	X		Complete		After unsuccessful recruitment, Stellar Projects were appointed to run this activity through to 31 May 2022
10	**Network Model Updates**	X		In Progress		These updates will occur across 3 stages – Gap Analysis for all 3W networks, Data gathering and them model build or update. Gap analysis is complete and flow monitoring almost complete. Model build/update now contracted. Some scope may be reduced due to covid impacts causing cost increases for some activities
11	**Okaihau Bore**		X	Complete		Physical works associated with the bore were completed in April
12	**Operational Data Management Software**	X		In Progress		Water Outlook has been chosen as the supplier of choice for this software. Last of the training to occur in Feb
13	**Paihia Water Intake Screen**		X	In Progress		Amended activity plan defined and physical works scoped by FNW, work to be completed in Dec has pushed into the new year
14	**Regional allocation**		X	In Progress		Regional initiatives as agreed with other Northland entities. Some funds have been diverted to support work in 3W reform transition workstreams
15	**Water Main Renewals**		X	In progress		For accelerated water main renewals as identified by leak detection and condition surveys – nothing new found to date. Some funds from this have been redirected to project 18 to allow increased de-sludging activity
16	**Water Safety Plan Lead**	X		Complete		Water Safety Lead on board since March 2021
17	**Water Safety Plan updates**	X		In Progress		The project is progressing well with final draft documents for most plants in progress
18	**Wetland Remediation**	X		In Progress		Priority sites identified and de-sludging work is underway per plan. Opononi, Taipa and Rawene complete; Rawene wetland underway

	Project	Opex	Capex	Progress	On target?	Commentary
19	**3W Reform Transition**	X		In progress		Funds from two projects have been diverted after DIA approval to establish this project from Dec 2021. This allows Council staff to participate in transition workstreams while providing funds for professional services to assist in work completion. Less hours assigned in Jan as expected due to leave

SOCIAL PROCUREMENT



Social Procurement: January 2022

Kerikeri Domain, Waipapa Sports Hub, Ruapekapeka Road, Priority 1 Routes, Te Hiku Revitalisation, Otiria Sports

Far North District Council
Te Kaunihera o Tai Tokerau ki te Raki

Procurement Data*

Waipapa Sports Hub, Te Hiku, Otiria Sports, Kerikeri Domain

Procurements	221
Total Value	$9,168,471
Far North Companies	81
Wider Northland Companies	15
Average Value	$47,505
Local Spend	$ 5,881,473
Maori Business Spend	$ 2,041,742
Roading Claims (ACTUAL)	$ 11,674,682
Roading Incl Committals	$ 20,592,593

Note: Above figures are based on Purchase Order Committals

MBIE Agreements: Schedule 4 Targets

Based on Purchase Order Data

Maori Business Spend — 22.00%

Local Spend — 64.00%

Without specialist materials spend (No Local Source)

- Playground Equipment
- Shade sails
- Pumptrack specialist

Employment
12 Months: 01 Jan to 31 Dec 2021
Monthly Average (Cumulative) Excludes Roads

Total	73 (833)
Previously Unemployed	6 (52)
Māori	31 (329)
Apprentices	4 (46)
Women	23 (270)
Local	53 (586)

Safety Training

Elevated Work Platform	28
Working at Heights	40
Confined Spaces	12
Hazardous Substances	5

SITEWISE

Businesses Engaged	Early Stages	Progressing	Newly Qualified	Improved Score
56 (+1)	14 (+1)	8 (+4)	22(+2)	18

SiteWise: District Wide

FUNDING INITIATIES PROJECTS - JANUARY

COMPLETE
Animal Shelters - Northern Shelter
Otiria Rugby Club - (Pamela-Anne Ngohe-Simon)

Animal Shelters - Southern shelter -

Project Phase: Tender Evaluation

- NRC Consent granted 7th April 2021. Resource Consent was granted 7th July 2021. Building consent Granted 20 October 2021 •Amended Elemental Costings Received 5th October 2021
- Dwelling and two outbuildings relocated from site

- Demolition of remaining structures and site clean-up still to be carried out
- Tender Award for Construction delayed. Tenders closed 20th Dec 2021, evaluation in progress.
- Construction now scheduled to start April 2022
- Construction now scheduled for completion November 2022

Kawakawa Safety and Streetscape Improvement Project - (SPL)

Project Status: Delivery phase

Project Status: Delivery phase

Budget allocation corrections are in progress. Once done, outstanding issues can be actioned.

- All works completed
- Speed Surveys have been analysed
- Speeds near the speed table have dropped from a median of 54km/h in Dec 2020 to 46km/h in Dec 2021 and the percentage of vehicles breaking the speed limit (50K) has dropped from 68% to 31%

Feedback:

Local support has been very high with the majority of comments being positive. FNDC has received one complaint from the CCS disability action 'Local Advisory Committee' regarding road art in the Disabled parking spaces - this will be removed. NZTA has received a complaint regarding site of the warning signage for speed table - this is being reviewed to improve signage. NZTA has also forwarded a message noting that one of the planters is blocking drainage of the kerb channel.

Next Milestone:

- Monitoring in February
- Final report in March
- Project team discussing pathways to permanence for successful elements of the trials with NZTA/Waka Kotahi

Kerikeri Domain Improvements - (SPL)

Project Phase: Construction

- Demolition completed by TARMAC.
- Skatepark construction well advanced. Soft opening of lower bowl area and timber vert ramp occurred Friday 10th December. Skate bowl and street skate section under construction for completion in Late February/ Early March
- Basketball construction commenced. Pavement poured. Asphalt laid. Fencing installed, BB hoops installed and line marking complete. Construction to be completed in February. Site coordination with Circle D Construction and Buildflex ongoing to coordinate the two site builds
- Playground - PLAYCO design fixed. Structural and Civil documentation currently completed in January. Delayed due to additional stormwater attenuation documentation and new survey work undertaken of newly built works. Program delayed due to COVID and lockdown. There will be delays on the delivery of the playground due Level 4 shut down on projects in AKL affecting Kerikeri delivery / Install. Likely commencement of works as early as possible pending contractor availability. Procurement underway for February.

- Park path and softscape - park path associated with Basketball and Skatepark nearing completion. Playground shared path to be completed with this contracted works. Rest of loop on HOLD
- BBQ areas - Project on HOLD
- Fitness Equipment - Project on HOLD
- Lighting - Project on HOLD

Lindvart Park/Sportsville Kaikohe - (Griffiths)

Project Phase: Scope

- The projects civil works package achieved building consent in Dec 2021 and the civil works tender has closed and tender evaluations ongoing. Target date for contract execution is end of Feb 2022 with civil construction starting early March 2022. The project team have implemented the scope reduction and changes to the buildings frontage as requested by the board, which has slightly delayed the completion of the buildings detailed design. Forecast completion for building detailed design and lodgment of building consent is April 2022, with additional Geotech findings being the critical item holding up progress. The total secured project funding remains at $11.39m with the project receiving $512,380 from lotteries in late 2021. There is an estimated funding shortfall of $1.34m which the board is currently working to achieve. In particular the board are working on a +$1m application to the TIF fund with the support of FNDC. In the interim the project is advancing in a staged manner to ensure that works packages only commence, once build costs/values align with the funding received. The key project risk is historic high construction cost inflation, which is being managed by utilising the staged/ packaged method of construction. Overall, the project has good forward momentum heading into Q1 of 2022.

Mangonui Waterfront Development - (FNHL)

Project Phase: Construction.

- Consents in place. Contract awarded to United Civil Construction Ltd. Construction of gravel path and pedestrian crossing complete. Handrail installation complete. Main jetty structure complete. Swim step foundations installed. Carpark street lights installed. Boardwalk 70% complete. Due to contractor difficulties procuring timber, completion is now expected April 2022

Moerewa Safe Streets - (SPL)

Project Phase: Delivery Phase

Budget allocation corrections are in progress. Once done, outstanding issues can be actioned.

- All works completed
- Some hit sticks have been destroyed by drivers
- Speed surveys have been analysed
- Speeds near the school have dropped from a median of 48km/h in Dec 2020 to 33km/h in Dec 2021 and the percentage of vehicles breaking the speed limit (50K) has dropped from 42% to 19%

Feedback:

Project team members had a conversation by the site with a local woman who expressed strong support for the project.

Next Milestone:

- Monitoring, February
- Final report in March
- Project team discussing pathways to permanence for successful elements of the trials with NZTA/Waka Kotahi

Ngawha Innovation Park - (FNHL)

Project Phase (Stage 1): Construction - earthworks and civil works continue to date.

- SH12 Park entry complete, awaiting practical completion from engineers.
- Horticulture Hub - earthworks for Horticulture Hub 95 % complete. Expect completion (weather dependent) at the beginning to middle of March.
- IEC Earthworks continue - small hold ups due to weather, silt control works started on Corrections site. Still awaiting Resource Consent to be granted.
- Innovation Hub building - stage 1 roof fitted, windows fitted work has started on plumbing, electrical & HVAC. First fix. Stage 2 structural steel erection, to start by 11 Feb.
- Regent Building - Cladding on, roof on, electrical and plumbing first fix underway.
- NorthTec - due to timber framing constructed on site due to timeframes are being pushed out from framing manufacturers with supply issues. Structural steel due to arrive on site mid-February.
- Stage 1 - scheduled for completion end 2022, early 2023.

Northern Adventure Experience Ltd - (TBIG)

Project Phase: FNDC has deferred this project until a later date.

Paihia Waterfront Development - (FNHL)

Project Phase: Planning and Design

Design complete. Dredging tender closed, with award dependent on main ROI timing. ROI for the main contract evaluated with final tender documents sent to shortlisted tenderers in December. Due to the effects of lockdown and summer tourism season, physical works will commence in Q1 of 2022. While there is some slippage of our internal programme, overall we are on track to meet the 2023 completion date.

Pukenui Wharf - (FNHL)

Project Phase: Construction

Majority of works complete with services installation (power, water) and wharf opened for use over Christmas. Installed concrete seawall panels next to boat ramp. Final construction of boat ramp scheduled for completion in Feb 2022, with fencing off the carpark due for completion in March 2022.

Rangitane Boat Ramp - (FNHL)

Project Phase: Resource Consent.

Project getting consented through the Covid 19 Recovery Fast Track Consenting Act. Reports from ecologists, engineers and landscape architect show no adverse effects arising from the development. Detailed design

complete. Residents Association are yet to hand over the jetty consent, so at this stage it can't be constructed as part of the main project. Discussions on-going. Construction scheduled for Mar 2022 to Jan 2023.

Strategic Roads - Priority 1 Routes - (HC)

Peria Rd - Construction. The seal extension works have been completed and the bridge strengthening works has commenced. The slip repair work is due to start in February. The bridge strengthening works has commenced, including the 'full deck replacements' on 4 bridges, and the 'specialist structure improvements' on a further 4 bridges on this priority 1 route from SH1 Fairburn Road to SH10 Oruru Road.

Ngapipito Road - Construction. The final section has been sealed and all that is outstanding now is the final culvert replacement that will take place once consent is granted (due February 2022)

Strategic Roads - Ruapekapeka Road - (HC) Stage 1

Physical works are now complete for stage 1, during December contractors dis-established site.

Stage 2A - construction is well underway with earthworks and drainage crews making great progress.

Stage 2B - includes the State Highway 1 intersection improvements, this scope of work has been separated from the seal extension contract. The design of the intersection improvements has been completed; this includes road widening for a northbound right turning bay into Ruapekapeka Road. Physical work is expected to start in March 2022. The design includes shifting the roadside stream slightly back to allow room for the road widening.

Consultation with affected landowners is going well as vegetation & fence clearing along the sides of the road continues, temporary fences have been installed in collaboration with individual landowner/farming requirements.

Ongoing liaison has continued with Te Ruapekapeka Trust, with the focus now moving to finalising the design of the new Pou structure and associated works at the SH1 Intersection.

Tai Tokerau Kaikohe Safe Streets - (SPL)

Project Phase: Delivery Phase

Budget allocation corrections are in progress. Once done, outstanding issues can be actioned.

- All works completed
- Some hit sticks have been destroyed by drivers
- Speed surveys have been analysed
- Speeds near the Kohanga Reo have dropped from a median of 41km/h in Dec 2020 to 37km/h in Dec 2021 and the percentage of vehicles breaking the speed limit (50K) has dropped from 9% to 6%
- unknown locals have planted marigolds in the planters on Recreation road and are weeding and watering them

Feedback:

Community feedback is generally very positive, with locals expressing strong support for the interventions and a desire to see further traffic calming via online hui.

Next Milestone:

- Comms to explain different elements of the project and what they are for as some confusion over where people can park

- Monitoring in February
- Final report in March
- Project team discussing pathways to permanence for successful elements of the trials with NZTA/Waka Kotahi

Te Ha o te Ao - (Jitka Hyde)

Project Phase: Construction

Prior to commencement of works a blessing of the site was conducted by Kipa Munro from Te Runanga O Ngāti Rēhia. Cable location complete. Foundation works commenced and progressed well with wired cage lowered into place. Pre-pouring inspection took place, with permission given by Structural Engineer to progress with the plan to pour concrete which progressed well due to suitable weather conditions. The 'birds' have been sandblasted, with next step to coat them. Steel pole delivered to site, awaiting further protective painting before installation (using crane). Next milestones include removal of palms & replacement planting of native tarata hedge. Pole installation. Northland Scaffolding to construct basement for 120 boulders followed by the swaging of the suspension cable. Project team is in the process of updating the original budgets with the new quotes to determine the shortfall (if any) in funding and what parts of the project can be altered/removed to ensure funding received is sufficient to complete the sculpture.

Te Hiku o te Ika Revitalization - (HC) –

Project Phase: Construction

MBIE have approved a variation to the funding agreement to move out milestones and the completion date of the project to November 2022.

Kaitaia

- Kaitaia has been named one of two finalists in the Small Town category. Award ceremony to take place 17 February.
- Kaitaia Pump Track completed 31/01/2022
- Site preparation completed on Allen Bell Park and Korora Park ready for installation of playground in February.
- Digital noticeboard went live on 24 January.

Ahipara

- Ahipara Pump Track completed 31/01/2022
- Water fountain installed at the pump track.
- Korora Street closure - consultation with residents has taken place in December and January. Feedback was incorporated into the concept plan which has now been shared with NTA.
- Foreshore Road Footpath barrier fence - received quote from Northscape, who are working through their Sitewise qualification now.

Awanui

- Water supply to BBQ installed. Further historic pictures to be installed in shop windows. RC application in progress to link pumptrack, half-court basketball court and cultural artworks with a new 2.2m curved footpath.

General

- The only BBQ not yet installed is Allen Bell park and we are timing the installation when the new park equipment gets installed in February 2022.
- Playground equipment has been ordered for all 3 locations, 2 of 3 are due for delivery in February 2022, with Awanui's due in March.
- Social procurement outcomes. All companies and individuals engaged to date are Northland based, and are predominantly from the Far North. The project is still governed by FNDC's procurement policies, and threshold values for supplier selection are adhered to.
- FNDC and the project team have set up an initiative to assist local, smaller contractors achieve Sitewise accreditation who don't currently meet this prequalification criteria. To date, 25 contractors have registered for this assistance and 14 have achieved Sitewise since last November. In addition to allowing them to work on this project, this accreditation will prequalify them for future continued work with FNDC. Through this process these contractors will be upskilled specifically in the Health and Safety at Work Act and their systems and processes will improve, resulting in safer workplaces. In addition, we have put 32 people through Working at Heights, MEWP and Management and Handling of Hazardous Substances.

Unahi Jetty - (FNHL)

Detailed design complete, Resource Consent granted, Exemption Building Consent granted. Tender awarded to Total Marine Services Ltd. They are planning on employing Stonecraft as local subcontractors. Pukenui and Unahi to be awarded to the same contractor to save on establishment costs. Precast deck panels and headstocks delivered to site. Site blessing for demolition. Barge mobilised to site ready to demolish the wharf (scheduled to start in October 2021). Project works to start with demolition in October 2021, and be completion delayed by one month to Feb 2022.

Te Puāwaitanga (BOI/Waipapa Sports Complex) - (SPL)

Planning stage and design stage underway.

The original MBIE Funding of $2M, will be supplemented by FNDC funding - awaiting written confirmation.

Monthly Highlights:

SH10

- The works on state highway 10 are due to be completed January 2022.
- The water bore has been completed and the pumps have been procured for the next phase, water testing and water consents. This has been delayed due to supply chain.

Resource Consent

- RC Applications to the NRC and FNDC were submitted on 11th November 2021.
- Awaiting public notification of the FNDC application – expected to be notified during the week beginning 17 January 2022.
- The NRC application was granted on the 13 December 2021
- Application was re notified by FNDC and final public submissions period has been extended to 03 March 2022.
- Once RC is issued, field construction can commence.
- Pricing for detailed design is underway.

Communications & Engagement

- In early December, Ngāti Rēhia facilitated a workshop with Working Group members and FNDC staff to develop the name of the facility. The output name is Te Puāwaitanga; A home of belonging, play and growth.
- Direct engagement with stakeholders (including adjacent neighbours) to inform design changes and resource consent documentation. Individual meetings have been offered to adjacent neighbours and interested parties on lodgment of the resource consents, but no one has yet taken up this offer.
- The Planner and Landscape Architect met with the neighbour who indicated that they may appeal the decisions. We will continue to work with them to attempt to mitigate their concerns, namely relating to landscaping.

FNDC 21/22 CAPTIAL AND RENEWAL PROGRAMME

Category	Subcategory	Location	Project Title	Monthly status update	Next months expected status update	Risk	Risk Comments
212 - Sealed Road Resurfacing	Sealing Chip seal	Network Wide	Network Chip sealing	Construction underway	Construction underway	3	No Delivery risks identified that would result in non-delivery this financial year
213 - Drainage Renewals	Drainage	Various Locations - Sealed Rd Pavement Rehab Drainage Renewal	Drainage Renewals			1	Delays experienced in programme approval resulting in this project not being completed fully this financial year
214 - Sealed Road pavement rehabilitation	Rehabs	Management/Investigation And MSQA	Design and MSQA			3	No Delivery risks identified that would result in non-delivery this financial year
214 - Sealed Road pavement rehabilitation	Rehabs	Pawarenga Road	Road Rehab Pawarenga Road	Physical works completed		3	No Delivery risks identified that would result in non-delivery this financial year
214 - Sealed Road pavement rehabilitation	Rehabs	Kerikeri Road	Road Rehab Kerikeri Road	Investigation / Design underway	Investigation / Design underway	1	Project deferred to a future financial year
214 - Sealed Road	Rehabs	Kings Road	Road Rehab Kings Road	Construction underway	Construction underway	2	No Delivery risks identified that would result in

Category	Subcategory	Location	Project Title	Monthly status update	Next months expected status update	Risk	Risk Comments
pavement rehabilitation							non-delivery this financial year
214 - Sealed Road pavement rehabilitation	Rehabs	Kohukohu Road	Road Rehab Kohukohu Road	Detailed design completed.	Construction underway	2	Delays experienced in programme approval resulting in this project not being completed fully this financial year
214 - Sealed Road pavement rehabilitation	Rehabs	Ngawha Springs Road	Road Rehab Ngawha Road	Detailed design completed.	Construction underway	1	Delays experienced in programme approval resulting in this project not being completed fully this financial year
214 - Sealed Road pavement rehabilitation	Rehabs	Oruru Road	Road Rehab Oruru Road	Construction underway	Construction underway	3	No Delivery risks identified that would result in non-delivery this financial year
214 - Sealed Road pavement rehabilitation	Rehabs	Oruru Road	Road Rehab Oruru Road	Construction underway	Construction underway	3	No Delivery risks identified that would result in non-delivery this financial year
214 - Sealed Road pavement rehabilitation	Rehabs	Summerville Avenue (Kaitaia)	Road Rehab Summerville Road	Investigation / Design underway	Detailed design completed.	1	Delays experienced in design / construction / approval resulting in this project not being completed fully this financial year
214 - Sealed Road pavement rehabilitation	Rehabs	Waikare Road	Road Rehab Waikare Road	Detailed design completed.	Construction underway	1	Delays experienced in programme approval resulting in this project not being completed fully this financial year
214 - Sealed Road pavement rehabilitation	Rehabs	Waimatenui / Mataraua Road	Road Rehab Waimatenui / Mataraua Road	Contract award / approval	Construction underway	2	Delays experienced in programme approval resulting in this project not being completed fully this financial year
215 - Structures Component Replacement	Bridge	Heavy Bridge Renewals (Full Network)	7/21/214 - General Bridge Repair 2021/24	Construction underway	Construction underway	2	Delays experienced in programme approval resulting in this project not being completed fully this financial year

Category	Subcategory	Location	Project Title	Monthly status update	Next months expected status update	Risk	Risk Comments
215 - Structures Component Replacement	Bridge	Scour Protection Works (Full Network)	7/21/215 - Scour Protection Works 2021/24	Contract award / approval	Construction underway	2	Delays experienced in programme approval resulting in this project not being completed fully this financial year
216 - Bridge and Structures Renewals	Bridge	Kahikatoa M35	7/21/202 - Kaitaia-Awaroa D41 & Kahikatoa M35 Upgrades	Contract award / approval	Construction underway	2	Delays experienced in programme approval resulting in this project not being completed fully this financial year
216 - Bridge and Structures Renewals	Bridge	Kaitaia-Awaroa Road(Kaitaia-Awaroa Road Culvert D41)	7/21/202 - Kaitaia-Awaroa D41 & Kahikatoa M35 Upgrades	Contract award / approval	Construction underway	2	Delays experienced in programme approval resulting in this project not being completed fully this financial year
216 - Bridge and Structures Renewals	Bridge	Puhata Road (Puhata Road Bridge D50)	7/21/203 - Puhata Road Bridge D50 Replacement	Physical works contract Tendering underway	Contract award / approval	2	Delays experienced in programme approval resulting in this project not being completed fully this financial year
216 - Bridge and Structures Renewals	Bridge	Tbc	Retaining Wall renewals			1	Delays experienced in programme approval resulting in this project not being completed fully this financial year
341 - Low Cost Low Risk	LR Imp - Bridges and structures	West Coast Road Bridge G01	152014 - Bridges and Large Culverts Replacement - West Coast Road Bridge G01	Site walk over and final sign off. Issue Practical Completion Certificate	Physical works completed	3	No Delivery risks identified that would result in non-delivery this financial year
341 - Low Cost Low Risk	LR Imp - Delineation Improvements	Various Locations (Kaitaia Intersection Improvements)	144250 - Sight Rails / Coroner Upgrade Programme	Project planning stage	Professional services procurement underway	2	Delays experienced in design / construction / approval resulting in this project not being completed fully this financial year
341 - Low Cost Low Risk	LR Imp - HRRI	Pukepoto Rd/ Lake Rd	144212 - Safety - Urban/Rural Intersection (HRRI)	Investigation / Design underway	Investigation / Design underway	1	Delays experienced in programme approval resulting in this project not being completed fully this financial year

Category	Subcategory	Location	Project Title	Monthly status update	Next months expected status update	Risk	Risk Comments
341 - Low Cost Low Risk	LR Imp - HRRI	Reef View/Foreshore Road	144213 - Safety - Urban/Rural Intersection (HRRI)	Investigation / Design underway	Investigation / Design underway	1	Delays experienced in programme approval resulting in this project not being completed fully this financial year
341 - Low Cost Low Risk	LR Imp - HRRI	Tokerau Beach Road/ Inland Road	144214 - Safety - Urban/Rural Intersection (HRRI)	Investigation / Design underway	Investigation / Design underway	1	Delays experienced in programme approval resulting in this project not being completed fully this financial year
341 - Low Cost Low Risk	LR Imp - HRRI	Various Locations	144215 - Safety - Urban/Rural Intersection (HRRI)	Investigation / Design underway	Investigation / Design underway	1	Delays experienced in programme approval resulting in this project not being completed fully this financial year
341 - Low Cost Low Risk	LR Imp - Lighting / Signals	Whangaroa Marina	144253 - Safety - Lighting/Signals Programme			1	Delays experienced in programme approval resulting in this project not being completed fully this financial year
341 - Low Cost Low Risk	LR Imp - Lighting improvements	Various Locations	152015 - Lighting Improvements	Physical works completed	Physical works completed	3	No Delivery risks identified that would result in non-delivery this financial year
341 - Low Cost Low Risk	LR Imp - Other	Unknown	144257 - Detour Route Programme			1	Delays experienced in programme approval resulting in this project not being completed fully this financial year
341 - Low Cost Low Risk	LR Imp - Other	Unknown	144268 - Wharf supporting infrastructure			1	Delays experienced in programme approval resulting in this project not being completed fully this financial year
341 - Low Cost Low Risk	LR Imp - Other	Waitangi, Paihia, Haruru Falls, Opononi, Kohukohu, Horeke	144258 - Access Improvements			1	Delays experienced in programme approval resulting in this project not being completed fully this financial year
341 - Low Cost Low Risk	LR Imp - Other	Various Locations	144142 - Associated Improvements	Construction underway	Construction underway	2	Delays experienced in programme approval resulting

Category	Subcategory	Location	Project Title	Monthly status update	Next months expected status update	Risk	Risk Comments
							in this project not being completed fully this financial year
341 - Low Cost Low Risk	LR Imp - Resilience improvements	Beach Road, Mangonui	152002 - Resilience Improvements 2021/22 - Beach Road, Mangonui			1	Delays experienced in programme approval resulting in this project not being completed fully this financial year
341 - Low Cost Low Risk	LR Imp - Resilience improvements	Gills Road, Awanui	152004 - Resilience Improvements 2021/22 - Gills Road, Awanui	Project planning stage	Professional services procurement underway	1	Delays experienced in programme approval resulting in this project not being completed fully this financial year
341 - Low Cost Low Risk	LR Imp - Resilience improvements	Kaitaia Awaroa Road	152005 - Resilience Improvements 2022/23 - Kaitaia Awaroa	Project planning stage	Professional services procurement underway	1	Delays experienced in programme approval resulting in this project not being completed fully this financial year
341 - Low Cost Low Risk	LR Imp - Resilience improvements	Kohukohu Road	152008 - Resilience Improvements 2023/24 - Kohukohu Road			1	Delays experienced in programme approval resulting in this project not being completed fully this financial year
341 - Low Cost Low Risk	LR Imp - Resilience improvements	Pawarenga Road	152010 - Resilience Improvements 2023/24 - Pawarenga Road			1	Delays experienced in programme approval resulting in this project not being completed fully this financial year
341 - Low Cost Low Risk	LR Imp - Resilience improvements	Aucks Road, Okiato - Russell	152003 - Resilience Improvements 2021/22 -Aucks Road, Okiato - Russell	Detailed design completed.	Physical works contract Tendering underway	3	No Delivery risks identified that would result in non-delivery this financial year
341 - Low Cost Low Risk	LR Imp - Resilience improvements	Hupara Road	152011 - Resilience Improvements 2023/24 - Hupara Road			1	Delays experienced in programme approval resulting in this project not being completed fully this financial year
341 - Low Cost Low Risk	LR Imp - Resilience improvements	Manawaora Road	152006 - Resilience Improvements 2022/23 -	Professional services procurement underway	Investigation / Design underway	2	Delays experienced in programme approval resulting in this project not being completed

Category	Subcategory	Location	Project Title	Monthly status update	Next months expected status update	Risk	Risk Comments
			Manawaora Road				fully this financial year
341 - Low Cost Low Risk	LR Imp - Resilience improvements	Waikare Road	152007 - Resilience Improvements 2021/22 - Waikare Road			1	Delays experienced in programme approval resulting in this project not being completed fully this financial year
341 - Low Cost Low Risk	LR Imp - Resilience improvements	Powell Road Rp209	152019 - Resilience Improvements 2018/21 - Powell Road	Physical works completed	Physical works completed	3	No Delivery risks identified that would result in non-delivery this financial year
341 - Low Cost Low Risk	LR Imp - Roadside Barrier	Old Bay Road	152020 - Roadside Barriers (Guardrails) and Associated Improvements	Construction underway	Construction underway	3	No Delivery risks identified that would result in non-delivery this financial year
341 - Low Cost Low Risk	LR Imp - Seal extensions	Arawhata Road Rp285-1329	144144 - New Road Sealing - Seal Extensions			1	Delays experienced in programme approval resulting in this project not being completed fully this financial year
341 - Low Cost Low Risk	LR Imp - Seal extensions	Aurere Beach Road Rp0-543	144147 - New Road Sealing - Seal Extensions			1	Delays experienced in programme approval resulting in this project not being completed fully this financial year
341 - Low Cost Low Risk	LR Imp - Seal extensions	Kaimaumau Road Rp8759-9933	144145 - New Road Sealing - Seal Extensions			1	Delays experienced in programme approval resulting in this project not being completed fully this financial year
341 - Low Cost Low Risk	LR Imp - Seal extensions	Kokohuia Road Rp164-1560	144146 - New Road Sealing - Seal Extensions			1	Delays experienced in programme approval resulting in this project not being completed fully this financial year
341 - Low Cost Low Risk	LR Imp - Signage/ pavement marking	Unknown	144281 - Wayfinding Signage			1	Delays experienced in programme approval resulting in this project not being completed fully this financial year

Category	Subcategory	Location	Project Title	Monthly status update	Next months expected status update	Risk	Risk Comments
341 - Low Cost Low Risk	LR Imp - Traffic management systems	Unknown	144272 - Township upgrades			1	Delays experienced in programme approval resulting in this project not being completed fully this financial year
341 - Low Cost Low Risk	R2Z - HRRI	Unknown	144209 - Safety - Urban/Rural Intersection (HRRI)	Project on hold	Project on hold	1	Delays experienced in programme approval resulting in this project not being completed fully this financial year
341 - Low Cost Low Risk	R2Z - HRRR	Ahipara- Sandhills	152000 - Safety - High Risk Rural Roads (HRRR)	Project on hold	Project on hold	1	Delays experienced in programme approval resulting in this project not being completed fully this financial year
341 - Low Cost Low Risk	R2Z - HRRR	Kaitaia-Awaroa Ahipara-Mangamuka (Hokianga Harbour)	152001 - Safety - High Risk Rural Roads (HRRR)	Project on hold	Project on hold	1	Delays experienced in programme approval resulting in this project not being completed fully this financial year
341 - Low Cost Low Risk	R2Z - HRRR	Rawene (Sh12 To Sh1 Via Car Ferry)	144201 - Safety - High Risk Rural Roads (HRRR)	Project on hold	Project on hold	1	Delays experienced in programme approval resulting in this project not being completed fully this financial year
341 - Low Cost Low Risk	R2Z - HRRR	Te Ahu Ahu Rd	144199 - Safety - High Risk Rural Roads (HRRR)	Project on hold	Project on hold	1	Delays experienced in programme approval resulting in this project not being completed fully this financial year
341 - Low Cost Low Risk	R2Z - Raised priority pedestrian crossings	436 Kerikeri Rd	144244 - Safety - Pedestrian Improvements	Professional services procurement underway	Project on hold	1	Project deferred to a future financial year
341 - Low Cost Low Risk	R2Z - School Zones	Kaikohe Christian School	144235 - Safety - School Zones (& Safer Journeys for Schools)	Project planning stage	Project planning stage	1	Delays experienced in programme approval resulting in this project not being completed fully this financial year
341 - Low Cost Low Risk	R2Z - School Zones	Kaikohe East School	144234 - Safety - School Zones (& Safer	Project planning stage	Project planning stage	1	Delays experienced in programme approval resulting in this project not

Category	Subcategory	Location	Project Title	Monthly status update	Next months expected status update	Risk	Risk Comments
			Journeys for Schools)				being completed fully this financial year
341 - Low Cost Low Risk	R2Z - School Zones	Kaitaia School	144233 - Safety - School Zones (& Safer Journeys for Schools)	Project planning stage	Project planning stage	1	Delays experienced in programme approval resulting in this project not being completed fully this financial year
341 - Low Cost Low Risk	R2Z - School Zones	Kerikeri Primary School	144236 - Safety - School Zones (& Safer Journeys for Schools)	Project planning stage	Project planning stage	1	Delays experienced in programme approval resulting in this project not being completed fully this financial year
341 - Low Cost Low Risk	R2Z - School Zones	Okaihau School	144239 - Safety - School Zones (& Safer Journeys for Schools)	Project planning stage	Project planning stage	1	Delays experienced in programme approval resulting in this project not being completed fully this financial year
341 - Low Cost Low Risk	R2Z - School Zones	Riverview School	144238 - Safety - School Zones (& Safer Journeys for Schools)	Project planning stage	Project planning stage	1	Delays experienced in programme approval resulting in this project not being completed fully this financial year
341 - Low Cost Low Risk	R2Z - School Zones	Springbank School	144237 - Safety - School Zones (& Safer Journeys for Schools)	Project planning stage	Project planning stage	1	Delays experienced in programme approval resulting in this project not being completed fully this financial year
341 - Low Cost Low Risk	R2Z - Speed Management	Unknown	144222 - Safety - Speed Management			1	Delays experienced in programme approval resulting in this project not being completed fully this financial year
341 - Low Cost Low Risk	R2Z - Speed Management	Kaitaia Urban Area	144229 - Safety - Speed Management via Local Area TM	Investigation / Design underway	Investigation / Design underway	1	Delays experienced in design / construction / approval resulting in this project not being completed fully this financial year
341 - Low Cost Low Risk	R2Z - Speed Management	North Hokianga & Kaitaia	144218 - Safety - Speed Management			1	Delays experienced in programme approval resulting in this project not

Category	Subcategory	Location	Project Title	Monthly status update	Next months expected status update	Risk	Risk Comments
							being completed fully this financial year
341 - Low Cost Low Risk	R2Z - Speed Management	Bay Of Islands & Kerikeri	144220 - Safety - Speed Management			1	Delays experienced in programme approval resulting in this project not being completed fully this financial year
341 - Low Cost Low Risk	R2Z - Speed Management	Kaikohe Nth Urban Area	144226 - Safety - Speed Management via Local Area TM	Investigation / Design underway	Investigation / Design underway	3	No Delivery risks identified that would result in non-delivery this financial year
341 - Low Cost Low Risk	R2Z - Speed Management	Moerewa - Otiria & Side Roads	151999 - Safety - Speed Management via Local Area TM	Investigation / Design underway	Investigation / Design underway	3	No Delivery risks identified that would result in non-delivery this financial year
341 - Low Cost Low Risk	R2Z - Speed Management	Unknown	144221 BOIW Community Board Plan - Town Safety and beautification			1	Delays experienced in programme approval resulting in this project not being completed fully this financial year
341 - Low Cost Low Risk	W&C - Cycle ways	Unknown	144183 - Cycleways - BOIW Community Board Plan (Links to TCCT)			1	Delays experienced in programme approval resulting in this project not being completed fully this financial year
341 - Low Cost Low Risk	W&C - Cycle ways	Unknown	144184 - Cycleways - BOIW Community Board Plan (Links to TCCT)			1	Delays experienced in programme approval resulting in this project not being completed fully this financial year
341 - Low Cost Low Risk	W&C - New Footpath	Sh11 Kaipatiki Road To York Road	152021 - BOI-Whangaroa Ward: SH11 Kaipatiki Rd to York Rd	Physical works completed	Physical works completed	3	No Delivery risks identified that would result in non-delivery this financial year
341 - Low Cost Low Risk	W&C - Shared path	Paihia To Waitangi - Shared Path To Te Ti	152045 - New Footpaths / Shared Use			1	Project deferred to a future financial year
Resilience - Unsubsidised	Resilience	West Coast Rd, Panguru	West Coast Rd, Panguru Road Raising	Investigation / Design underway	Detailed design completed.	2	Delays experienced in design / construction / approval resulting in this project not being completed

Category	Subcategory	Location	Project Title	Monthly status update	Next months expected status update	Risk	Risk Comments
							fully this financial year
Seal Extension - Unsubsidised		Brass Road, Ahipara	Seal Extension - Brass Road	Construction underway	Construction underway	2	No Delivery risks identified that would result in non-delivery this financial year
Seal Extension - Unsubsidised		Parapara Toatoa Road, Taipa	Seal Extension - Parapara Road	Construction underway	Construction underway	3	No Delivery risks identified that would result in non-delivery this financial year
Seal Extension - Unsubsidised		Unahi Road RP2100-2740m	Seal Extension - Unahi Road	Investigation / Design underway	Investigation / Design underway	1	Delays experienced in programme approval resulting in this project not being completed fully this financial year
Unsubsidised - Raised Facilities		Kaimaumau Road	Kaimaumau Road Traffic Calming	Investigation / Design underway	Investigation / Design underway	1	Delays experienced in design / construction / approval resulting in this project not being completed fully this financial year
Unsubsidised New Footpath	New Footpath	Ahipara Rd, Te Hiku		Investigation / Design underway	Investigation / Design underway	1	Delays experienced in programme approval resulting in this project not being completed fully this financial year
Unsubsidised New Footpath	New Footpath	Footpath Loop Te Ahu - Te Hiku Sports Hub Unsubsidised	Footpath Loop Te Ahu - Te Hiku Sports Hub Unsubsidised	Construction underway	Construction underway	3	No Delivery risks identified that would result in non-delivery this financial year
Unsubsidised New Footpath	New Footpath	Kotare Drive, Mangonui, Te Hiku		Investigation / Design underway	Investigation / Design underway	1	Delays experienced in programme approval resulting in this project not being completed fully this financial year
Unsubsidised New Footpath	New Footpath	Kotare Street, Ahipara, Te Hiku		Investigation / Design underway	Investigation / Design underway	1	Delays experienced in programme approval resulting in this project not being completed fully this financial year
Unsubsidised New Footpath	New Footpath	Florence Street, Russell		Project planning stage	Investigation / Design underway	1	Delays experienced in programme approval resulting in this project not

Category	Subcategory	Location	Project Title	Monthly status update	Next months expected status update	Risk	Risk Comments
							being completed fully this financial year
Unsubsidised New Footpath	New Footpath	Kellet Street, Opua				1	Project deferred to a future financial year
Unsubsidised New Footpath	New Footpath	Koutou Point Road, Koutou		Project planning stage	Professional services procurement underway	1	Delays experienced in programme approval resulting in this project not being completed fully this financial year
Unsubsidised New Footpath	New Footpath	Reed Street, Moerewa		Professional services procurement underway	Investigation / Design underway	3	No Delivery risks identified that would result in non-delivery this financial year
Unsubsidised New Footpath	Unsubsidised New Footpath	T/Sheets Costs, Te Hiku				1	Delays experienced in programme approval resulting in this project not being completed fully this financial year
Unsubsidised New Footpath	Unsubsidised New Footpath	Cable Bay Block Road, Cable Bay, Te Hiku		Investigation / Design underway	Investigation / Design underway	1	Delays experienced in programme approval resulting in this project not being completed fully this financial year
Unsubsidised New Footpath	Unsubsidised New Footpath	Bay Of Islands-Whangaroa T/Sheets				3	No Delivery risks identified that would result in non-delivery this financial year
Unsubsidised New Footpath	Unsubsidised New Footpath	Taumatamakuku Settlement Road		Project planning stage	Professional services procurement underway	1	Delays experienced in programme approval resulting in this project not being completed fully this financial year

VENTIA – CONTRACT 7/18/101 ROAD MAINTENANCE AND RENEWALS - MONTHLY REPORT



Most of this report was made from a tent while in self isolation following contact with a confirmed case on an Air NZ flight. Hopefully it doesn't become a common theme for the coming year but the team at Ventia Puketona are doing everything we can to reduce the risks of exposure (setting up work bubbles with no compromising, masks are mandatory inside office spaces, working more from home and removing visitors from entering our offices).

Unfortunately, this means a lot more team's meetings online, but it is what it is I guess. On a more positive note, how good was the summer holiday weather. Where I was in the Far North did not see one drop of rain until back at work. It was good to get a bit of wet weather in the past week to dampen down the roads and bring a bit of moisture back for our graders to play with.

Week 1 on our return included a large length of Waikare Rd requiring a grade, wet and roll after a lot of holiday traffic used this route through Christmas. We attended to the last portion of work on Tirohanga Rd fence reinstatement after a large tree fell on 8th of Jan.

The drainage team were very busy installing 100m of culvert crossings in January.

All dish channel was constructed on Bayly Rd seal extension, Orakau Rd heavy metalling was completed across 4 sections of road following heavy usage from the Forestry industry, this will ensure the road is set up for the wetter months when logging will still occur.

The rest of our teams settled back into routine activities.

Looking forward to February it is a busy month for the renewals portion of the programme. Kings Rd, Bayly Rd, Waimatenui-Mataraua Rd and a start on Ngawha Springs Rd and Waikare Rd potentially.

WORK **PROGRAMME**

A total of 984 individual work items were completed throughout the month of January which 1731 were routine find and fix issues, 3 was cyclic or part of annual rounds, 119 were programmed works, 7 were renewals/capital projects, and 20 were callouts or emergency response works.

February 2022 forward works programme has been submitted in RAMM.

ROUTINE WORKS COMPLETED



Routine maintenance activities completed in January:

- 110 sealed potholes repaired
- 648 unsealed potholes repaired
- 80 km of unsealed roads graded equating to 10% of the total unsealed network.

DRAINAGE MAINTENANCE AND RENEWALS

Drainage maintenance activities completed in January:

- 2323 m of heavy water tabling
- 0m of light water tabling
- 102.5m Culvert pipes replaced/new
- 8 Culverts flushed

The drainage team set about installing many culverts including Valencia Lane, Waiare Rd, Browns Rd, Rusk Rd, Waimaternui/Matarua Rd, Wekaweka Rd plus more. The Valencia Lane culvert replacement was a tricky one with Kerikeri Irrigations line at a depth of 600mm meaning we had to carefully expose the line and lay over the top. Pokai and the team did a top job.



Valencia Lane – 18m of culvert replacement

ROUTINE INSPECTION REPORT

Our 3 inspectors have been going very well keeping up with the task of inspecting each road before its inspection date. For the fourth month in a row none have missed a due date.

Sealed - There are currently 0 sealed inspections running overdue.

Unsealed - There are currently 0 un-sealed inspections running overdue. Due to lockdown

Drainage - There are currently 0 drainage inspections running overdue.

ORDERED **WORKS**

Lots of footpath vegetation removal was programmed and completed in January with the warm weather pushing branches and vege out into our footpath throughout the network.

Wet, roll and grade was carried out on Waikare Rd after the summer rush.

A rather large Granddaddy pine fell over on Tirohanga Rd over the Christmas Break leaving a few campers stuck inside the Safari place, unable to get out until 6pm but the road was open, and they were all happy to be able to continue on their way home.



Franklin St, Opua – Before and After

METALLING TOTALS

682 m3 of maintenance meal was applied to the unsealed network.

ROAD FURNITURE ACTIVITY

- 15 new signs installed or replaced (damaged or missing)
- 13 signposts replaced/new
- 72 signs re-re-erected or straightened
- 49 signs/posts cleaned
- 29 posts painted



Pakanae Cemetery Rd – Replaced missing BEM

PAVEMENT REHABILITATIONS

Seal Extensions

Ngapipito Rd – RP3500 – 8435 (PGF)

48 signs were installed on the seal extension in January. 3 pallets of ready-mix concrete bags mixed up!!! We are planning on installing the large culvert this month after receiving the consent from NRC in January, the environment management plan is being prepared as we speak.

Kings Rd, Paihia

Works are due to recommence on Kings Rd on the 9th of February. This involves a 450mm dig out of the full pavement and replacement. We are planning to complete the works under a contraflow to ensure two way traffic at all times and should be complete within 4 weeks of starting.

Bayly Rd, Haruru

With a few wet days in between dish channel construction and pouring it will be completed today (3/2/22), this leaves us two weeks from next week to import the basecourse material, stabilise and seal. The road is starting to take shape and will be a lot wider and safer once completed.

With Kerikeri Rd most likely being pushed back to next season due to external delays Waikare Rd and Ngawha Springs will be commenced in late February after approval today to get these done before end of the season.



Bayly Rd – Dish Channel

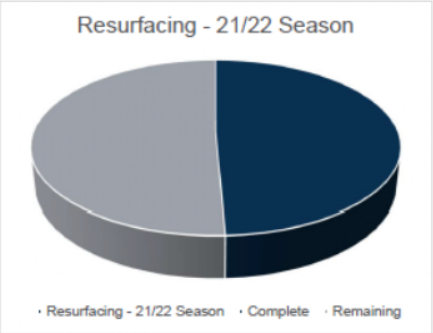
Waimatenui-Mataraua Rd has been added to the list recently with the green light by the Renewals team and we look forward to starting this on 14th February.

RESURFACING

With 49% of the reseals now completed for the year things have been progressing well.

Note: 6.6km of the programme has been deferred to next season on the unsubsidised second coat seals. This is reflected in the resurfacing graph to the right.

25% of the programme is planned for sealing in February leaving 25% for March and asphalt surfacing sites for April.

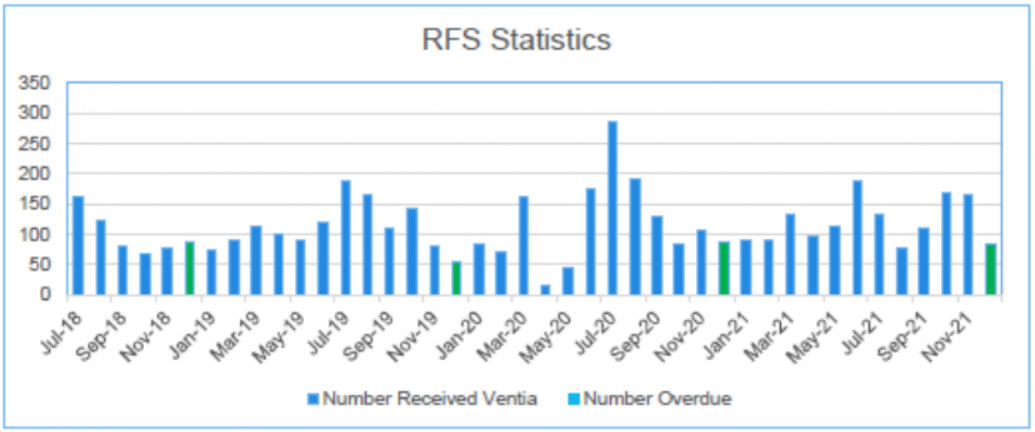


ROAD ACCIDENT REPORT

No accidents to report this month.

CUSTOMER SERVICE ISSUES/COMPLAINTS

As with most months the data is a month behind due to timing. So, in terms of RFS's in December with it being a short month and all it was a similar story to previous Decembers. Ventia received 83 service requests and 0 overdue. The below graph shows the number of RFS's received by our branch each month during the NTA contract and any overdue.



One of the more "entertaining" RFS to come through in a while arrived in January with the comments from the afterhours that a tree is blocking half the road in Kerikeri. Our patrol arrived to find this as the culprit....



COMPLIMENTS

We received the following compliments in January

1 - Subject: Re: RFS 4092xxx – Sullivans Rd, Paihia – Pothole Repair

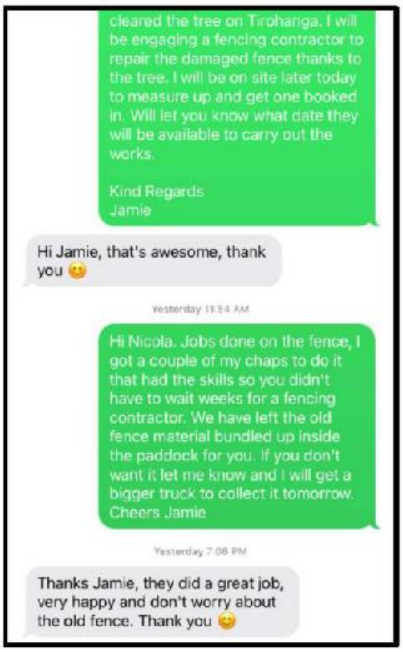
14-Jan-2022 09:47:39 -

Customer has called to thank both Gloria and the contractors for you work, and very quick to.

2 – Subject Tirohanga Rd Emergency Works – 8/1/22

– Large pine crossed road. Resident called Nicola texted Jamie on 13/1/22:





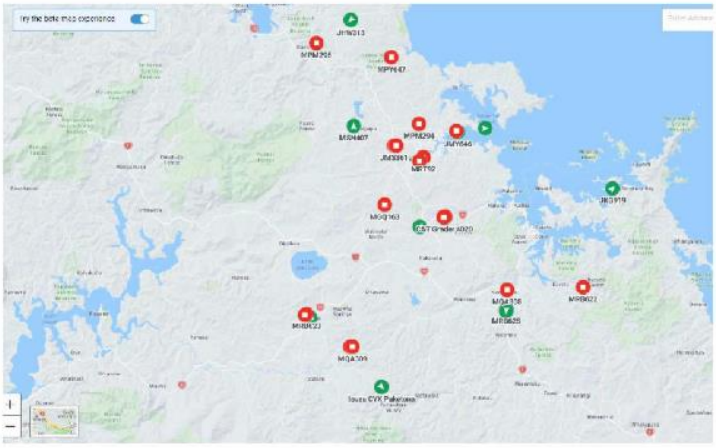
RAMM ISSUES

No RAMM issues to report.

HEALTH AND SAFETY

Our focus this month has been ensuring our work bubbles are working well reducing the risk of crews encountering each other. We are using What's App as a handy reminder tool to communicate updates which is a lot harder than in person but the right thing to do at present. We hope for things to improve soon to ensure we can return to normal. Our leaders are in the field more to ensure compliance and provide support if anyone requires it.

We now have our entire fleet both small and large vehicles equipped with E Road. This is used to monitor driving behaviours and helps when an emergency arises to locate the person nearest to the call out. It has proved very successful with a screen shot taken earlier in the month highlighting just how far and wide the team can go each day.



TRAINING

A slow month on the training front with COVID restrictions getting in the way. We spent the first day back completing Verifications of competency for all staff on light trailers and the procedure, water blaster operation and environmental training.

ENVIRONMENT

In January we had no notifiable incidents to report.

ANNUAL ROUTINE ACTIVITY ACHIEVEMENT

Routine and cyclic rounds start at the financial year.

Biennial Painting of All Rails	5% completed - on hold due to funding
Biennial Parapet Painting of Bridges	0% completed - on hold due to funding
Annual Cleaning of EMP's	35% completed
Annual Sucking of All Sumps	0% completed – Round to commence in Feb 22
Biannual sweeping	100% completed – 1st round complete, 2nd Round April
Urban Vegetation Spraying	68% completed - first round
Rural Vegetation Spraying	54% completed - first round

COMMUNITY ENGAGEMENT

Photos of the Waitangi Mountain Bike Park millings and how it is holding up.





RESOURCES

The 2nd of 3 brand new 6-Wheeler Mitsubishi's arrived in January.



And our bitumen sprayer passed its E2 certification this week and is due to arrive in our hot little hands next week. Sneak peek.





FNDC TENDERED WORKS/OTHER

- The Old Bay Rd Guardrail improvements got underway this week, keep an eye out for progress on this vital safety improvement through February. This project is for FNDC.
- Windermere, Waipapa is progressing well with the road due to be vested to Council in April.



JANUARY 2022 INSPECTIONS

Cyc Act Type	Cyc Act Freq	Road	Start	End	Length	Due Date	Completed Date
Sealed Network Inspection	Sealed 3 Month	ACCESS HEIGHTS	0	84	84	25/01/2022	19/01/2022
Sealed Network Inspection	Sealed 3 Month	ACCESS ROAD	0	1134	1134	25/01/2022	19/01/2022
Unsealed Network Inspection	Unsealed 1 Month	ADAMS ROAD (AWARUA)	0	1624	1624	6/01/2022	10/01/2022
Unsealed Network Inspection	Unsealed 1 Month	AKERAMA ROAD	0	4595	4595	3/02/2022	28/01/2022
Sealed Network Inspection	Sealed 3 Month	ARABELLA ROAD	0	420	420	13/01/2022	11/01/2022
Unsealed Network Inspection	Unsealed 2 Month	AUCKLAND BLOCK ROAD	0	2205	2205	19/01/2022	19/01/2022
Unsealed Network Inspection	Unsealed 2 Month	AYRTONS ACCESS ROAD	0	230	230	20/01/2022	20/01/2022
Unsealed Network Inspection	Unsealed 1 Month	BAFFIN STREET	680	731	51	28/01/2022	25/01/2022
Unsealed Network Inspection	Unsealed 1 Month	BAKER ROAD	0	43	43	2/02/2022	27/01/2022
Sealed Network Inspection	Sealed 3 Month	BAKER ROAD (OPONONI)	0	244	244	1/02/2022	27/01/2022
Unsealed Network Inspection	Unsealed 2 Month	BAYLY ROAD	0	981	981	24/01/2022	21/01/2022
Sealed Network Inspection	Sealed 1 Month	BAYVIEW ROAD (PAIHIA)	0	115	115	26/01/2022	25/01/2022
Unsealed Network Inspection	Unsealed 2 Month	BEDGGOOD ROAD	0	521	521	14/01/2022	12/01/2022
Sealed Network Inspection	Sealed 3 Month	BENTZEN DRIVE	376	415	39	24/01/2022	20/01/2022
Unsealed Network Inspection	Unsealed 2 Month	BENTZEN DRIVE	155	376	221	19/01/2022	19/01/2022
Sealed Network Inspection	Sealed 3 Month	BLACKS ROAD	0	290	290	26/01/2022	19/01/2022
Unsealed Network Inspection	Unsealed 1 Month	BLEDISLOE ROAD	0	200	200	12/01/2022	11/01/2022
Sealed Network Inspection	Sealed 3 Month	BLUE GUM LANE	0	700	700	2/02/2022	26/01/2022

Cyc Act Type	Cyc Act Freq	Road	Start	End	Length	Due Date	Completed Date
Sealed Network Inspection	Sealed 3 Month	BLUE MARLIN DRIVE	0	510	510	28/01/2022	25/01/2022
Unsealed Network Inspection	Unsealed 2 Month	BRINDLE ROAD	0	3828	3828	26/01/2022	24/01/2022
Unsealed Network Inspection	Unsealed 2 Month	BRISTOW ROAD	0	103	103	14/01/2022	15/01/2022
Sealed Network Inspection	Sealed 3 Month	BROADVIEW ROAD	0	920	920	13/01/2022	11/01/2022
Unsealed Network Inspection	Unsealed 1 Month	BROWNS ROAD (TE IRENGA)	0	1325	1325	2/02/2022	27/01/2022
Unsealed Network Inspection	Unsealed 2 Month	BROWNS ROAD (TOWAI)	0	1651	1651	20/01/2022	20/01/2022
Unsealed Network Inspection	Unsealed 1 Month	BULLMANS ROAD	0	1583	1583	17/01/2022	18/01/2022
Sealed Network Inspection	Sealed 1 Month	BUTLER ROAD	0	273	273	25/01/2022	24/01/2022
Unsealed Network Inspection	Unsealed 1 Month	CABBAGE TREE BAY ROAD	0	751	751	12/01/2022	14/01/2022
Unsealed Network Inspection	Unsealed 1 Month	CALLAGHANS ROAD	0	4270	4270	17/01/2022	17/01/2022
Unsealed Network Inspection	Unsealed 2 Month	CAMPBELL STREET	0	320	320	12/01/2022	12/01/2022
Sealed Network Inspection	Sealed 1 Month	CANNON DRIVE	0	231	231	25/01/2022	20/01/2022
Unsealed Network Inspection	Unsealed 1 Month	CAPRINE ROAD	0	324	324	21/01/2022	21/01/2022
Sealed Network Inspection	Sealed 3 Month	CHAPEL STREET	0	277	277	25/01/2022	20/01/2022
Unsealed Network Inspection	Unsealed 2 Month	CHERRINGTON ROAD	0	384	384	17/01/2022	17/01/2022
Sealed Network Inspection	Sealed 3 Month	CLARK ROAD (KERIKERI)	0	159	159	24/01/2022	19/01/2022
Sealed Network Inspection	Sealed 3 Month	CLIFFORD STREET SVCE LANE	0	51	51	26/01/2022	24/01/2022
Sealed Network Inspection	Sealed 2 Week	COBHAM ROAD	0	1072	1072	7/01/2022	11/01/2022
Sealed Network Inspection	Sealed 2 Week	COBHAM ROAD	0	1072	1072	21/01/2022	24/01/2022

Cyc Act Type	Cyc Act Freq	Road	Start	End	Length	Due Date	Completed Date
Sealed Network Inspection	Sealed 3 Month	COCHRANE DRIVE	0	253	253	19/01/2022	19/01/2022
Sealed Network Inspection	Sealed 3 Month	COMMERCIAL STREET	0	325	325	21/01/2022	25/01/2022
Sealed Network Inspection	Sealed 3 Month	CONIFER LANE	0	470	470	11/01/2022	12/01/2022
Drainage Inspection	Drainage 12 Month	COOK ROAD	0	1559	1559	3/03/2022	27/01/2022
Unsealed Network Inspection	Unsealed 1 Month	COOK ROAD	0	1559	1559	13/01/2022	15/01/2022
Unsealed Network Inspection	Unsealed 1 Month	COOKSON ROAD	0	1023	1023	14/01/2022	15/01/2022
Unsealed Network Inspection	Unsealed 1 Month	COURTHOUSE LANE	0	247	247	7/01/2022	11/01/2022
Unsealed Network Inspection	Unsealed 2 Month	CUMBER ROAD SIDE ROAD	0	176	176	1/02/2022	26/01/2022
Unsealed Network Inspection	Unsealed 2 Month	CURTIS ROAD	0	811	811	20/01/2022	20/01/2022
Sealed Network Inspection	Sealed 3 Month	DAROUX DRIVE	0	185	185	27/01/2022	21/01/2022
Sealed Network Inspection	Sealed 1 Month	DARWIN ROAD	0	438	438	24/01/2022	19/01/2022
Unsealed Network Inspection	Unsealed 2 Month	DAVEY ROAD	0	989	989	17/01/2022	17/01/2022
Sealed Network Inspection	Sealed 1 Month	DAVIS CRESCENT (PAIHIA)	0	358	358	20/01/2022	20/01/2022
Sealed Network Inspection	Sealed 3 Month	DE HAVEN STREET	0	134	134	14/01/2022	11/01/2022
Sealed Network Inspection	Sealed 1 Month	DE MERLE STREET	0	739	739	11/01/2022	14/01/2022
Unsealed Network Inspection	Unsealed 2 Month	DE THIERRY STREET	765	1102	337	27/01/2022	24/01/2022
Unsealed Network Inspection	Unsealed 2 Month	DEEMING ROAD	334	418	84	14/01/2022	13/01/2022
Sealed Network Inspection	Sealed 1 Month	DICKESON STREET	0	99	99	11/01/2022	14/01/2022
Unsealed Network Inspection	Unsealed 2 Month	DOMAIN ROAD	0	804	804	20/01/2022	19/01/2022
Drainage Inspection	Drainage 12 Month	DONALDSON ROAD	0	1110	1110	14/03/2022	27/01/2022

Cyc Act Type	Cyc Act Freq	Road	Start	End	Length	Due Date	Completed Date
Unsealed Network Inspection	Unsealed 1 Month	DOONSIDE ROAD	0	472	472	10/01/2022	11/01/2022
Unsealed Network Inspection	Unsealed 1 Month	DUDDY ROAD	0	7148	7148	21/01/2022	25/01/2022
Unsealed Network Inspection	Unsealed 1 Month	EDMONDS ROAD	422	1193	771	17/01/2022	18/01/2022
Sealed Network Inspection	Sealed 3 Month	EQUESTRIAN DRIVE	0	1420	1420	6/01/2022	12/01/2022
Sealed Network Inspection	Sealed 2 Week	FAIRWAY DRIVE	0	141	141	12/01/2022	13/01/2022
Sealed Network Inspection	Sealed 2 Week	FAIRWAY DRIVE	0	141	141	26/01/2022	25/01/2022
Sealed Network Inspection	Sealed 1 Month	FALLS VIEW ROAD	0	289	289	12/01/2022	17/01/2022
Sealed Network Inspection	Sealed 3 Month	FANTAIL RISE	0	155	155	20/01/2022	20/01/2022
Sealed Network Inspection	Sealed 1 Month	FLAGSTAFF HILL	0	405	405	11/01/2022	13/01/2022
Unsealed Network Inspection	Unsealed 1 Month	FORDS ROAD	0	1616	1616	13/01/2022	15/01/2022
Unsealed Network Inspection	Unsealed 2 Month	FOREST ROAD	0	1850	1850	26/01/2022	24/01/2022
Sealed Network Inspection	Sealed 1 Month	FRANKLIN STREET	0	873	873	25/01/2022	25/01/2022
Unsealed Network Inspection	Unsealed 2 Month	FRASER ROAD	0	25	25	1/02/2022	26/01/2022
Sealed Network Inspection	Sealed 3 Month	FREESE PARK ROAD	0	121	121	25/01/2022	18/01/2022
Unsealed Network Inspection	Unsealed 2 Month	FREESE PARK ROAD	121	135	14	25/01/2022	24/01/2022
Unsealed Network Inspection	Unsealed 1 Month	GAMMONS ROAD	0	7400	7400	28/01/2022	25/01/2022
Unsealed Network Inspection	Unsealed 2 Month	GERRARD ROAD	0	500	500	13/01/2022	14/01/2022
Unsealed Network Inspection	Unsealed 1 Month	GILES ROAD	0	2400	2400	3/02/2022	28/01/2022
Sealed Network Inspection	Sealed 1 Month	GILLIES STREET (EAST)	0	44	44	28/01/2022	25/01/2022

Cyc Act Type	Cyc Act Freq	Road	Start	End	Length	Due Date	Completed Date
Unsealed Network Inspection	Unsealed 2 Month	GLENDALE HEIGHTS	0	577	577	3/02/2022	27/01/2022
Sealed Network Inspection	Sealed 1 Month	GOLF VIEW ROAD	0	246	246	25/01/2022	24/01/2022
Unsealed Network Inspection	Unsealed 2 Month	GRAHAM ROAD	0	349	349	19/01/2022	19/01/2022
Unsealed Network Inspection	Unsealed 1 Month	GREEN LANE	0	716	716	21/01/2022	21/01/2022
Unsealed Network Inspection	Unsealed 2 Month	GREEN LANE EXTENSION	0	104	104	21/01/2022	21/01/2022
Sealed Network Inspection	Sealed 3 Month	GREENACRES DRIVE	849	1140	291	17/01/2022	24/01/2022
Sealed Network Inspection	Sealed 3 Month	GREENACRES DRIVE	0	849	849	24/01/2022	24/01/2022
Sealed Network Inspection	Sealed 1 Month	GREY STREET (KAWAKAWA)	0	140	140	11/01/2022	11/01/2022
Unsealed Network Inspection	Unsealed 2 Month	GROVE ROAD	0	1212	1212	13/01/2022	11/01/2022
Sealed Network Inspection	Sealed 3 Month	HALL ROAD	0	557	557	7/01/2022	14/01/2022
Unsealed Network Inspection	Unsealed 1 Month	HANSEN ROAD (PURERUA)	0	578	578	17/01/2022	18/01/2022
Unsealed Network Inspection	Unsealed 2 Month	HANSEN ROAD (WAIMAMAKU)	0	620	620	10/03/2022	17/01/2022
Unsealed Network Inspection	Unsealed 1 Month	HARIRU ROAD	0	3780	3780	27/01/2022	25/01/2022
Unsealed Network Inspection	Unsealed 2 Month	HARRIS ROAD	0	711	711	14/01/2022	11/01/2022
Drainage Inspection	Drainage 12 Month	HARRISON ROAD	0	675	675	24/02/2022	26/01/2022
Unsealed Network Inspection	Unsealed 2 Month	HARRISON ROAD	0	675	675	11/01/2022	12/01/2022
Sealed Network Inspection	Sealed 3 Month	HARURU FALLS ROAD	0	375	375	12/01/2022	17/01/2022
Sealed Network Inspection	Sealed 1 Month	HARURU FALLS ROAD	375	1458	1083	12/01/2022	17/01/2022
Unsealed Network Inspection	Unsealed 1 Month	HARURU FALLS ROAD	1458	4730	3272	6/01/2022	11/01/2022

Cyc Act Type	Cyc Act Freq	Road	Start	End	Length	Due Date	Completed Date
Unsealed Network Inspection	Unsealed 1 Month	HAUTAPU ROAD	0	597	597	2/02/2022	26/01/2022
Sealed Network Inspection	Sealed 3 Month	HAWKINS CRESCENT	0	354	354	13/01/2022	19/01/2022
Unsealed Network Inspection	Unsealed 2 Month	HAYTERS ROAD	0	1382	1382	14/01/2022	15/01/2022
Unsealed Network Inspection	Unsealed 2 Month	HERBERT ROAD (WAIARE)	0	662	662	19/01/2022	19/01/2022
Sealed Network Inspection	Sealed 2 Week	HERITAGE BYPASS	0	1455	1455	7/01/2022	11/01/2022
Sealed Network Inspection	Sealed 2 Week	HERITAGE BYPASS	0	1455	1455	21/01/2022	19/01/2022
Sealed Network Inspection	Sealed 3 Month	HERON HILL	0	175	175	21/01/2022	19/01/2022
Unsealed Network Inspection	Unsealed 2 Month	HEWITT ROAD	0	96	96	19/01/2022	18/01/2022
Sealed Network Inspection	Sealed 1 Month	HILLCREST ROAD (KAIKOHE)	0	320	320	11/01/2022	14/01/2022
Unsealed Network Inspection	Unsealed 2 Month	HIVES ROAD	0	813	813	12/01/2022	12/01/2022
Sealed Network Inspection	Sealed 2 Week	HOBSON AVENUE (KERIKERI)	0	345	345	14/01/2022	18/01/2022
Drainage Inspection	Drainage 12 Month	HOBSON ROAD (MANGAMUKA)	0	479	479	4/04/2022	28/01/2022
Unsealed Network Inspection	Unsealed 2 Month	HOBSON ROAD (MANGAMUKA)	0	479	479	2/02/2022	27/01/2022
Sealed Network Inspection	Sealed 3 Month	HOBSON ROAD (OHAEWAI)	141	266	125	26/01/2022	19/01/2022
Sealed Network Inspection	Sealed 2 Week	HOMESTEAD ROAD	0	324	324	13/01/2022	12/01/2022
Sealed Network Inspection	Sealed 2 Week	HOMESTEAD ROAD	0	324	324	27/01/2022	25/01/2022
Unsealed Network Inspection	Unsealed 1 Month	HOMESTEAD ROAD SRVC LANE 1	0	40	40	18/01/2022	18/01/2022
Sealed Network Inspection	Sealed 3 Month	HOMESTEAD ROAD SRVC LANE 2	0	80	80	26/01/2022	25/01/2022
Unsealed Network Inspection	Unsealed 1 Month	HONGI STREET	590	640	50	1/02/2022	26/01/2022
Sealed Network Inspection	Sealed 1 Month	HOPE AVENUE	0	794	794	26/01/2022	26/01/2022

Cyc Act Type	Cyc Act Freq	Road	Start	End	Length	Due Date	Completed Date
Unsealed Network Inspection	Unsealed 1 Month	HORAHORA ROAD	0	5157	5157	17/01/2022	17/01/2022
Drainage Inspection	Drainage 12 Month	HOREKE ROAD	0	15971	15971	1/02/2022	26/01/2022
Sealed Network Inspection	Sealed 1 Month	HOREKE ROAD	11570	15469	3899	26/01/2022	24/01/2022
Unsealed Network Inspection	Unsealed 1 Month	HOREKE ROAD	2601	11570	8969	13/01/2022	12/01/2022
Sealed Network Inspection	Sealed 1 Month	HUPARA ROAD	0	3505	3505	26/01/2022	26/01/2022
Unsealed Network Inspection	Unsealed 1 Month	HUPARA ROAD	3505	4196	691	2/02/2022	26/01/2022
Unsealed Network Inspection	Unsealed 1 Month	HUPARA ROAD (EAST)	0	609	609	2/02/2022	26/01/2022
Unsealed Network Inspection	Unsealed 1 Month	IMMS ROAD (LAKE OMAPERE)	0	4102	4102	13/01/2022	15/01/2022
Unsealed Network Inspection	Unsealed 1 Month	JACKS BAY ROAD	0	372	372	28/01/2022	25/01/2022
Unsealed Network Inspection	Unsealed 2 Month	JACKSON ROAD	0	1022	1022	20/01/2022	20/01/2022
Sealed Network Inspection	Sealed 3 Month	JAMES KEMP PLACE	0	242	242	14/01/2022	19/01/2022
Unsealed Network Inspection	Unsealed 2 Month	JAMES STREET (RUSSELL)	189	258	69	13/01/2022	13/01/2022
Sealed Network Inspection	Sealed 3 Month	JAMESON ESPLANADE	0	1394	1394	19/01/2022	19/01/2022
Unsealed Network Inspection	Unsealed 2 Month	JAMIESON ROAD (RAWENE)	0	393	393	12/01/2022	12/01/2022
Unsealed Network Inspection	Unsealed 2 Month	JENKINS ROAD	0	399	399	10/01/2022	13/01/2022
Unsealed Network Inspection	Unsealed 1 Month	JENNINGS ROAD	0	670	670	28/01/2022	25/01/2022
Unsealed Network Inspection	Unsealed 1 Month	JORDAN ROAD	0	10906	10906	12/01/2022	13/01/2022
Sealed Network Inspection	Sealed 1 Month	KAHIKATEAROA LANE	0	264	264	11/01/2022	13/01/2022

Cyc Act Type	Cyc Act Freq	Road	Start	End	Length	Due Date	Completed Date
Unsealed Network Inspection	Unsealed 2 Month	KAHIKATOA ROAD	0	1629	1629	13/01/2022	11/01/2022
Unsealed Network Inspection	Unsealed 2 Month	KAKA ROAD	0	2066	2066	19/01/2022	19/01/2022
Sealed Network Inspection	Sealed 1 Month	KAPIRO ROAD	0	5790	5790	12/01/2022	17/01/2022
Unsealed Network Inspection	Unsealed 2 Month	KARAKA ROAD	0	290	290	19/01/2022	19/01/2022
Unsealed Network Inspection	Unsealed 2 Month	KARUHIRUHI ROAD	0	1740	1740	20/01/2022	20/01/2022
Sealed Network Inspection	Sealed 3 Month	KELLET STREET	0	430	430	14/01/2022	11/01/2022
Unsealed Network Inspection	Unsealed 2 Month	KELLY ROAD	0	600	600	20/01/2022	20/01/2022
Sealed Network Inspection	Sealed 3 Month	KEMP ROAD	0	751	751	14/01/2022	19/01/2022
Sealed Network Inspection	Sealed 1 Month	KEMPTHORNE ROAD	0	2800	2800	25/01/2022	20/01/2022
Sealed Network Inspection	Sealed 3 Month	KENNEDY STREET	0	320	320	24/01/2022	19/01/2022
Unsealed Network Inspection	Unsealed 2 Month	KEOGH ROAD	0	272	272	17/01/2022	18/01/2022
Sealed Network Inspection	Sealed 1 Month	KERIKERI INLET ROAD	1378	9032	7654	10/01/2022	10/01/2022
Sealed Network Inspection	Sealed 2 Week	KERIKERI INLET ROAD	0	1378	1378	14/01/2022	18/01/2022
Unsealed Network Inspection	Unsealed 1 Month	KERIKERI INLET ROAD	9032	9686	654	18/01/2022	18/01/2022
Sealed Network Inspection	Sealed 1 Month	KERIKERI ROAD	4268	5304	1036	10/01/2022	12/01/2022
Sealed Network Inspection	Sealed 2 Week	KERIKERI ROAD	0	2974	2974	12/01/2022	13/01/2022
Sealed Network Inspection	Sealed 2 Week	KERIKERI ROAD	2974	4268	1294	12/01/2022	13/01/2022
Sealed Network Inspection	Sealed 2 Week	KERIKERI ROAD	0	2974	2974	26/01/2022	25/01/2022
Sealed Network Inspection	Sealed 2 Week	KERIKERI ROAD	2974	4268	1294	26/01/2022	25/01/2022
Unsealed Network Inspection	Unsealed 1 Month	KINGFISHER POINT ROAD	0	330	330	13/01/2022	13/01/2022

Cyc Act Type	Cyc Act Freq	Road	Start	End	Length	Due Date	Completed Date
Unsealed Network Inspection	Unsealed 2 Month	KINGI ROAD	316	530	214	24/01/2022	21/01/2022
Sealed Network Inspection	Sealed 1 Month	KINGS ROAD	0	230	230	12/01/2022	11/01/2022
Sealed Network Inspection	Sealed 1 Month	KLINAC LANE	0	872	872	11/01/2022	13/01/2022
Unsealed Network Inspection	Unsealed 2 Month	KNUDSENS ROAD	0	2265	2265	17/01/2022	18/01/2022
Unsealed Network Inspection	Unsealed 1 Month	KORANAE ROAD	0	363	363	12/01/2022	13/01/2022
Unsealed Network Inspection	Unsealed 1 Month	KOROPEWA ROAD	0	1833	1833	3/02/2022	28/01/2022
Unsealed Network Inspection	Unsealed 2 Month	KOUTU BEACH ROAD	0	256	256	26/01/2022	24/01/2022
Sealed Network Inspection	Sealed 1 Month	KOUTU LOOP ROAD	0	2441	2441	13/01/2022	12/01/2022
Unsealed Network Inspection	Unsealed 1 Month	KOUTU LOOP ROAD	2820	8291	5471	12/01/2022	14/01/2022
Unsealed Network Inspection	Unsealed 1 Month	KOUTU POINT ROAD	730	990	260	1/02/2022	27/01/2022
Unsealed Network Inspection	Unsealed 1 Month	KURAPARI ROAD	0	560	560	13/01/2022	11/01/2022
Unsealed Network Inspection	Unsealed 1 Month	LAKE ROAD (OKAIHAU)	1088	9815	8727	13/01/2022	15/01/2022
Sealed Network Inspection	Sealed 2 Week	LANDING ROAD (KERIKERI)	709	1823	1114	12/01/2022	13/01/2022
Sealed Network Inspection	Sealed 2 Week	LANDING ROAD (KERIKERI)	1823	2489	666	12/01/2022	13/01/2022
Sealed Network Inspection	Sealed 2 Week	LANDING ROAD (KERIKERI)	709	1823	1114	26/01/2022	25/01/2022
Sealed Network Inspection	Sealed 2 Week	LANDING ROAD (KERIKERI)	1823	2489	666	26/01/2022	25/01/2022
Unsealed Network Inspection	Unsealed 2 Month	LANES ROAD	315	885	570	19/01/2022	19/01/2022
Sealed Network Inspection	Sealed 3 Month	LEAITY STREET	0	403	403	26/01/2022	25/01/2022
Unsealed Network Inspection	Unsealed 1 Month	LODORE ROAD	0	5921	5921	21/01/2022	21/01/2022

Cyc Act Type	Cyc Act Freq	Road	Start	End	Length	Due Date	Completed Date
Unsealed Network Inspection	Unsealed 1 Month	LODORE ROAD (EAST)	0	569	569	2/02/2022	26/01/2022
Unsealed Network Inspection	Unsealed 2 Month	LOVATT ROAD	0	3253	3253	13/01/2022	14/01/2022
Unsealed Network Inspection	Unsealed 2 Month	LUCAS ROAD	0	376	376	19/01/2022	19/01/2022
Unsealed Network Inspection	Unsealed 2 Month	LUDBROOKS ROAD	0	3089	3089	1/02/2022	26/01/2022
Sealed Network Inspection	Sealed 3 Month	LUDBROOKS ROAD (LOOP)	0	331	331	17/01/2022	19/01/2022
Sealed Network Inspection	Sealed 3 Month	MACKERETH LANE	9	54	45	14/01/2022	11/01/2022
Unsealed Network Inspection	Unsealed 2 Month	MAHINA ROAD	0	228	228	26/01/2022	24/01/2022
Sealed Network Inspection	Sealed 1 Month	MANAWAORA ROAD	0	5945	5945	12/01/2022	13/01/2022
Sealed Network Inspection	Sealed 1 Month	MANGAKARETU ROAD	0	1190	1190	14/01/2022	19/01/2022
Unsealed Network Inspection	Unsealed 1 Month	MANGAKARETU ROAD	1190	8705	7515	27/01/2022	25/01/2022
Unsealed Network Inspection	Unsealed 2 Month	MANGAPUPU ROAD	0	2029	2029	20/01/2022	20/01/2022
Drainage Inspection	Drainage 12 Month	MANGATARAIRE ROAD	0	2816	2816	17/12/2021	25/01/2022
Unsealed Network Inspection	Unsealed 2 Month	MANGATAWA ROAD	726	2200	1474	26/01/2022	24/01/2022
Unsealed Network Inspection	Unsealed 1 Month	MANGATAWA ROAD	0	726	726	28/01/2022	25/01/2022
Unsealed Network Inspection	Unsealed 2 Month	MANGATOA ROAD	0	528	528	20/01/2022	20/01/2022
Unsealed Network Inspection	Unsealed 2 Month	MANGU ROAD	0	140	140	19/01/2022	19/01/2022
Unsealed Network Inspection	Unsealed 2 Month	MANUWAI ROAD	0	319	319	17/01/2022	18/01/2022
Unsealed Network Inspection	Unsealed 1 Month	MARAENUI DRIVE	450	470	20	12/01/2022	15/01/2022

Cyc Act Type	Cyc Act Freq	Road	Start	End	Length	Due Date	Completed Date
Sealed Network Inspection	Sealed 1 Month	MARINO PLACE	0	124	124	11/01/2022	14/01/2022
Unsealed Network Inspection	Unsealed 1 Month	MARLOW ROAD	0	8448	8448	7/01/2022	12/01/2022
Sealed Network Inspection	Sealed 1 Month	MAROMAKU-TOWAI ROAD	0	2860	2860	11/01/2022	11/01/2022
Unsealed Network Inspection	Unsealed 1 Month	MAROMAKU-TOWAI ROAD	2860	6794	3934	1/02/2022	26/01/2022
Unsealed Network Inspection	Unsealed 2 Month	MARTIN ROAD	0	412	412	25/01/2022	24/01/2022
Sealed Network Inspection	Sealed 3 Month	MASSEY STREET	0	354	354	17/01/2022	24/01/2022
Sealed Network Inspection	Sealed 1 Month	MATAUWHI ROAD	0	443	443	12/01/2022	13/01/2022
Unsealed Network Inspection	Unsealed 1 Month	MATAWAIA-MAROMAKU ROAD	0	19830	19830	17/01/2022	17/01/2022
Unsealed Network Inspection	Unsealed 2 Month	MATENE ROAD	0	530	530	18/01/2022	18/01/2022
Sealed Network Inspection	Sealed 3 Month	MAWSON AVENUE	0	345	345	24/01/2022	19/01/2022
Sealed Network Inspection	Sealed 3 Month	MCCAUGHAN ROAD	0	653	653	12/01/2022	18/01/2022
Unsealed Network Inspection	Unsealed 2 Month	MCDONALDS ROAD (OROMAHOE)	0	1521	1521	24/01/2022	21/01/2022
Unsealed Network Inspection	Unsealed 2 Month	MCDONNELL ROAD	0	714	714	21/01/2022	21/01/2022
Unsealed Network Inspection	Unsealed 2 Month	MCFARLANE STREET (NORTH)	0	63	63	14/01/2022	15/01/2022
Sealed Network Inspection	Sealed 1 Month	MCFARLANE STREET (SOUTH)	0	105	105	11/01/2022	11/01/2022
Unsealed Network Inspection	Unsealed 1 Month	MCINTYRES ROAD	0	7981	7981	12/01/2022	15/01/2022
Unsealed Network Inspection	Unsealed 2 Month	MCKENZIE ROAD (PURERUA)	0	1131	1131	20/01/2022	18/01/2022
Sealed Network Inspection	Sealed 1 Month	MEMORIAL AVENUE	0	304	304	11/01/2022	14/01/2022
Sealed Network Inspection	Sealed 3 Month	MEMORIAL AVENUE SVCE LANE	0	125	125	3/02/2022	27/01/2022

Cyc Act Type	Cyc Act Freq	Road	Start	End	Length	Due Date	Completed Date
Sealed Network Inspection	Sealed 1 Month	MILL LANE	0	460	460	13/01/2022	18/01/2022
Sealed Network Inspection	Sealed 3 Month	MILL ROAD	0	331	331	26/01/2022	25/01/2022
Unsealed Network Inspection	Unsealed 1 Month	MILL ROAD	331	4421	4090	12/01/2022	15/01/2022
Sealed Network Inspection	Sealed 3 Month	MISSION ROAD (KERIKERI)	0	731	731	14/01/2022	19/01/2022
Unsealed Network Inspection	Unsealed 2 Month	MITCHELL ROAD	0	570	570	20/01/2022	20/01/2022
Unsealed Network Inspection	Unsealed 1 Month	MONTROSE ROAD	232	1250	1018	7/01/2022	11/01/2022
Sealed Network Inspection	Sealed 3 Month	MONUMENT ROAD (KAIKOHE)	448	673	225	20/01/2022	21/01/2022
Sealed Network Inspection	Sealed 3 Month	MONUMENT ROAD (KAIKOHE)	0	448	448	27/01/2022	21/01/2022
Drainage Inspection	Drainage 12 Month	MOTUKIORE ROAD	0	13880	13880	11/04/2022	20/01/2022
Unsealed Network Inspection	Unsealed 1 Month	MOTUKIORE ROAD	0	13880	13880	17/01/2022	17/01/2022
Unsealed Network Inspection	Unsealed 2 Month	MOTUTOA ROAD	0	450	450	20/01/2022	20/01/2022
Unsealed Network Inspection	Unsealed 2 Month	MOUNTAIN ROAD	0	1398	1398	20/01/2022	20/01/2022
Drainage Inspection	Drainage 12 Month	MUDGWAY ROAD	0	947	947	5/04/2022	28/01/2022
Unsealed Network Inspection	Unsealed 2 Month	MUDGWAY ROAD	0	947	947	2/02/2022	27/01/2022
Sealed Network Inspection	Sealed 1 Month	NESS ROAD	0	1333	1333	14/01/2022	18/01/2022
Unsealed Network Inspection	Unsealed 2 Month	NGAHUHU ROAD	0	548	548	1/02/2022	26/01/2022
Sealed Network Inspection	Sealed 1 Month	NGAPIPITO ROAD	8435	19112	10677	10/01/2022	12/01/2022
Sealed Network Inspection	Sealed 3 Month	NGAPIPITO ROAD	0	3500	3500	20/01/2022	25/01/2022
Unsealed Network Inspection	Unsealed 1 Month	NGAPIPITO ROAD	3500	8435	4935	12/01/2022	13/01/2022

Cyc Act Type	Cyc Act Freq	Road	Start	End	Length	Due Date	Completed Date
Unsealed Network Inspection	Unsealed 1 Month	NGAPUHI ROAD	0	445	445	3/02/2022	28/01/2022
Unsealed Network Inspection	Unsealed 1 Month	NGAPUHI ROAD (KAIKOHE)	0	2705	2705	2/02/2022	27/01/2022
Sealed Network Inspection	Sealed 1 Month	NGAWHA SPRINGS ROAD	0	2695	2695	11/01/2022	14/01/2022
Sealed Network Inspection	Sealed 3 Month	NGAWHITU ROAD	0	365	365	20/01/2022	25/01/2022
Unsealed Network Inspection	Unsealed 1 Month	NGAWHITU ROAD	365	3048	2683	2/02/2022	27/01/2022
Sealed Network Inspection	Sealed 1 Month	NINIHI ROAD	0	245	245	11/01/2022	12/01/2022
Unsealed Network Inspection	Unsealed 1 Month	NINIHI ROAD	245	5114	4869	21/01/2022	21/01/2022
Unsealed Network Inspection	Unsealed 2 Month	NOVA STREET	75	249	174	14/01/2022	15/01/2022
Unsealed Network Inspection	Unsealed 1 Month	NOY ROAD	0	844	844	12/01/2022	15/01/2022
Unsealed Network Inspection	Unsealed 1 Month	OETZMAN ROAD	0	1928	1928	17/01/2022	18/01/2022
Unsealed Network Inspection	Unsealed 2 Month	OHURI ROAD	679	2530	1851	26/01/2022	24/01/2022
Unsealed Network Inspection	Unsealed 2 Month	OIHI ROAD	0	1504	1504	12/01/2022	11/01/2022
Sealed Network Inspection	Sealed 1 Month	OKAIHAU ROAD	0	5468	5468	10/01/2022	13/01/2022
Drainage Inspection	Drainage 12 Month	OKAKA ROAD	0	2014	2014	4/02/2022	24/01/2022
Unsealed Network Inspection	Unsealed 2 Month	OKAKA ROAD	0	2014	2014	11/01/2022	12/01/2022
Unsealed Network Inspection	Unsealed 1 Month	OKOKAKO ROAD	0	2196	2196	12/01/2022	11/01/2022
Sealed Network Inspection	Sealed 1 Month	OLD BAY ROAD	0	4942	4942	28/01/2022	26/01/2022
Unsealed Network Inspection	Unsealed 1 Month	OLD VALLEY ROAD	0	565	565	14/01/2022	15/01/2022

Cyc Act Type	Cyc Act Freq	Road	Start	End	Length	Due Date	Completed Date
Unsealed Network Inspection	Unsealed 2 Month	OLD WHANGAE ROAD	104	193	89	13/01/2022	15/01/2022
Sealed Network Inspection	Sealed 1 Month	OLD WHARF ROAD (OPONONI)	0	102	102	7/01/2022	12/01/2022
Unsealed Network Inspection	Unsealed 1 Month	OMANAIA ROAD	0	4705	4705	13/01/2022	12/01/2022
Unsealed Network Inspection	Unsealed 2 Month	OMANAIA SCHOOL ROAD	0	183	183	12/01/2022	12/01/2022
Unsealed Network Inspection	Unsealed 1 Month	OMAPERE ROAD	556	1530	974	6/01/2022	10/01/2022
Sealed Network Inspection	Sealed 1 Month	ONEKURA ROAD	0	1900	1900	12/01/2022	17/01/2022
Unsealed Network Inspection	Unsealed 1 Month	ONEKURA ROAD	1900	3168	1268	28/01/2022	25/01/2022
Unsealed Network Inspection	Unsealed 2 Month	OPAHI STATION ROAD	0	1395	1395	3/02/2022	28/01/2022
Unsealed Network Inspection	Unsealed 2 Month	OPARA ROAD	0	3077	3077	20/01/2022	20/01/2022
Sealed Network Inspection	Sealed 1 Month	OPITO BAY ROAD	0	4132	4132	11/01/2022	13/01/2022
Sealed Network Inspection	Sealed 3 Month	ORAKAU ROAD	0	272	272	27/01/2022	21/01/2022
Unsealed Network Inspection	Unsealed 1 Month	ORAKAU ROAD	272	16442	16170	13/01/2022	14/01/2022
Sealed Network Inspection	Sealed 3 Month	ORANGEWOOD ROAD	0	539	539	11/01/2022	18/01/2022
Sealed Network Inspection	Sealed 1 Month	ORCHARD ROAD (KAPIRO)	0	1065	1065	13/01/2022	18/01/2022
Unsealed Network Inspection	Unsealed 2 Month	ORIRA ROAD	0	3815	3815	2/02/2022	27/01/2022
Sealed Network Inspection	Sealed 1 Month	OROMAHOE ROAD	14860	15646	786	11/01/2022	11/01/2022
Unsealed Network Inspection	Unsealed 1 Month	OROMAHOE ROAD	0	14860	14860	12/01/2022	15/01/2022
Sealed Network Inspection	Sealed 3 Month	OROMAHOE SCHOOL ROAD	0	453	453	14/01/2022	12/01/2022
Sealed Network Inspection	Sealed 3 Month	ORRS ROAD	0	661	661	19/01/2022	21/01/2022

Cyc Act Type	Cyc Act Freq	Road	Start	End	Length	Due Date	Completed Date
Sealed Network Inspection	Sealed 3 Month	OSBOURNE ROAD	0	67	67	14/01/2022	11/01/2022
Unsealed Network Inspection	Unsealed 1 Month	OTAENGA ROAD	0	1393	1393	10/01/2022	10/01/2022
Unsealed Network Inspection	Unsealed 1 Month	OTAHA ROAD	0	4654	4654	17/01/2022	18/01/2022
Unsealed Network Inspection	Unsealed 2 Month	OTAHI ROAD	0	389	389	20/01/2022	20/01/2022
Sealed Network Inspection	Sealed 3 Month	OTAMARUA ROAD	0	312	312	24/01/2022	20/01/2022
Unsealed Network Inspection	Unsealed 1 Month	OTATARA MARAE ROAD	0	882	882	7/01/2022	12/01/2022
Unsealed Network Inspection	Unsealed 1 Month	OTAUA ROAD	0	5114	5114	28/01/2022	25/01/2022
Sealed Network Inspection	Sealed 1 Month	OTIRIA ROAD	0	1081	1081	6/01/2022	11/01/2022
Sealed Network Inspection	Sealed 1 Month	PA ROAD	0	930	930	11/01/2022	10/01/2022
Unsealed Network Inspection	Unsealed 1 Month	PA ROAD	930	958	28	13/01/2022	15/01/2022
Unsealed Network Inspection	Unsealed 2 Month	PACKERS ROAD	0	720	720	21/01/2022	21/01/2022
Unsealed Network Inspection	Unsealed 1 Month	PAIAKA ROAD	0	6703	6703	3/02/2022	28/01/2022
Unsealed Network Inspection	Unsealed 2 Month	PAKANAE CEMETERY ROAD	0	460	460	20/01/2022	20/01/2022
Unsealed Network Inspection	Unsealed 1 Month	PAKARU ROAD	4051	10203	6152	12/01/2022	15/01/2022
Unsealed Network Inspection	Unsealed 2 Month	PAKEHAUA ROAD	0	1000	1000	3/02/2022	28/01/2022
Unsealed Network Inspection	Unsealed 2 Month	PANIORA ROAD	0	625	625	25/01/2022	24/01/2022
Unsealed Network Inspection	Unsealed 2 Month	PARAHA ROAD	0	740	740	13/01/2022	13/01/2022
Sealed Network Inspection	Sealed 1 Month	PARK ROAD	0	384	384	11/01/2022	14/01/2022

Cyc Act Type	Cyc Act Freq	Road	Start	End	Length	Due Date	Completed Date
Unsealed Network Inspection	Unsealed 2 Month	PARKERS ROAD	0	3232	3232	18/01/2022	18/01/2022
Sealed Network Inspection	Sealed 1 Month	PARNELL STREET	0	1901	1901	11/01/2022	14/01/2022
Sealed Network Inspection	Sealed 3 Month	PAROA ROAD	0	1906	1906	24/01/2022	20/01/2022
Unsealed Network Inspection	Unsealed 1 Month	PAROA ROAD	1906	2569	663	28/01/2022	25/01/2022
Unsealed Network Inspection	Unsealed 2 Month	PARROT ROAD	0	316	316	17/01/2022	17/01/2022
Sealed Network Inspection	Sealed 1 Month	PATAKA LANE	0	142	142	11/01/2022	13/01/2022
Sealed Network Inspection	Sealed 3 Month	PATHWAYS DRIVE	0	290	290	26/01/2022	19/01/2022
Sealed Network Inspection	Sealed 1 Month	PEMBROKE STREET	0	475	475	12/01/2022	11/01/2022
Unsealed Network Inspection	Unsealed 2 Month	PEMBROKE STREET	475	640	165	19/01/2022	19/01/2022
Sealed Network Inspection	Sealed 3 Month	PENNEY STREET (OPUA)	0	104	104	12/01/2022	11/01/2022
Unsealed Network Inspection	Unsealed 2 Month	PERAS ROAD	0	2171	2171	13/01/2022	12/01/2022
Unsealed Network Inspection	Unsealed 2 Month	PERI ROAD	0	368	368	19/01/2022	19/01/2022
Drainage Inspection	Drainage 12 Month	PERRY ROAD	0	2190	2190	24/03/2022	28/01/2022
Drainage Inspection	Drainage 12 Month	PICADILLY ROAD	0	5315	5315	4/05/2022	18/01/2022
Unsealed Network Inspection	Unsealed 1 Month	PICADILLY ROAD	979	5315	4336	10/01/2022	10/01/2022
Unsealed Network Inspection	Unsealed 2 Month	PINE HILL ROAD	0	4100	4100	12/01/2022	14/01/2022
Unsealed Network Inspection	Unsealed 2 Month	PIPIROA ROAD	0	234	234	13/01/2022	13/01/2022
Unsealed Network Inspection	Unsealed 1 Month	PIPIWAI ROAD	0	13073	13073	3/02/2022	28/01/2022
Sealed Network Inspection	Sealed 3 Month	POINT VERONICA DRIVE	0	537	537	13/01/2022	11/01/2022

Cyc Act Type	Cyc Act Freq	Road	Start	End	Length	Due Date	Completed Date
Sealed Network Inspection	Sealed 3 Month	POINT VERONICA DRIVE EXTENSION	0	69	69	13/01/2022	11/01/2022
Sealed Network Inspection	Sealed 1 Month	POKAPU ROAD	0	7350	7350	12/01/2022	11/01/2022
Unsealed Network Inspection	Unsealed 1 Month	POKAPU ROAD	7350	12724	5374	13/01/2022	13/01/2022
Sealed Network Inspection	Sealed 3 Month	POPLAR LANE	0	331	331	1/02/2022	26/01/2022
Unsealed Network Inspection	Unsealed 1 Month	POROTU ROAD	0	2220	2220	1/02/2022	26/01/2022
Sealed Network Inspection	Sealed 3 Month	POUNAMU PLACE	0	135	135	27/01/2022	21/01/2022
Unsealed Network Inspection	Unsealed 2 Month	PUHITIA ROAD	0	893	893	13/01/2022	14/01/2022
Unsealed Network Inspection	Unsealed 2 Month	PUIA STREET	561	1385	824	19/01/2022	19/01/2022
Unsealed Network Inspection	Unsealed 2 Month	PUKAWA ROAD (WHIRINAKI)	0	203	203	20/01/2022	20/01/2022
Unsealed Network Inspection	Unsealed 1 Month	PUKETI ROAD	0	9432	9432	2/02/2022	27/01/2022
Sealed Network Inspection	Sealed 1 Month	PUKETOTARA ROAD	0	4712	4712	14/01/2022	19/01/2022
Sealed Network Inspection	Sealed 3 Month	PUKETOTARA ROAD	4712	5218	506	26/01/2022	19/01/2022
Unsealed Network Inspection	Unsealed 1 Month	PUKETOTARA ROAD	5218	13165	7947	7/01/2022	11/01/2022
Drainage Inspection	Drainage 12 Month	PUKEWHAO ROAD	0	1835	1835	6/04/2022	20/01/2022
Unsealed Network Inspection	Unsealed 2 Month	PUKEWHAO ROAD	0	1835	1835	6/01/2022	11/01/2022
Unsealed Network Inspection	Unsealed 2 Month	PUKEWHAU ROAD	0	150	150	20/01/2022	20/01/2022
Sealed Network Inspection	Sealed 1 Month	PUNAKITERE LOOP ROAD	0	967	967	11/01/2022	12/01/2022
Unsealed Network Inspection	Unsealed 1 Month	PUNAKITERE LOOP ROAD	967	5515	4548	1/02/2022	27/01/2022
Sealed Network Inspection	Sealed 1 Month	PUNGAERE ROAD	0	8820	8820	12/01/2022	17/01/2022

Cyc Act Type	Cyc Act Freq	Road	Start	End	Length	Due Date	Completed Date
Unsealed Network Inspection	Unsealed 1 Month	PUNGAERE ROAD	8820	12410	3590	28/01/2022	25/01/2022
Sealed Network Inspection	Sealed 1 Month	PURERUA ROAD	0	9578	9578	11/01/2022	14/01/2022
Unsealed Network Inspection	Unsealed 1 Month	PURERUA ROAD	9578	15440	5862	7/01/2022	11/01/2022
Unsealed Network Inspection	Unsealed 1 Month	QUARRY ROAD (KAIKOHE)	242	623	381	12/01/2022	13/01/2022
Sealed Network Inspection	Sealed 1 Month	QUEEN STREET (RUSSELL)	0	103	103	11/01/2022	13/01/2022
Unsealed Network Inspection	Unsealed 1 Month	QUINCES LANDING	0	344	344	12/01/2022	15/01/2022
Unsealed Network Inspection	Unsealed 1 Month	RAHIRI SETTLEMENT ROAD	0	2008	2008	13/01/2022	11/01/2022
Sealed Network Inspection	Sealed 1 Month	RAIHARA STREET	0	443	443	1/02/2022	27/01/2022
Sealed Network Inspection	Sealed 1 Month	RAINBOW FALLS ROAD	0	850	850	13/01/2022	18/01/2022
Unsealed Network Inspection	Unsealed 2 Month	RAKAUTAO ROAD	0	353	353	19/01/2022	19/01/2022
Unsealed Network Inspection	Unsealed 1 Month	RAKAUWAHIA ROAD	1298	10419	9121	12/01/2022	13/01/2022
Unsealed Network Inspection	Unsealed 2 Month	RAMSEY ROAD	0	2885	2885	19/01/2022	19/01/2022
Sealed Network Inspection	Sealed 3 Month	RANFURLY STREET	0	344	344	17/01/2022	24/01/2022
Drainage Inspection	Drainage 12 Month	RANGIAHUA ROAD	0	6402	6402	6/04/2022	28/01/2022
Unsealed Network Inspection	Unsealed 2 Month	RANGIHOUA ROAD	739	6800	6061	1/02/2022	27/01/2022
Unsealed Network Inspection	Unsealed 1 Month	RANGIHOUA ROAD	0	739	739	2/02/2022	27/01/2022
Sealed Network Inspection	Sealed 1 Month	RANGITANE ROAD	0	2764	2764	26/01/2022	21/01/2022
Sealed Network Inspection	Sealed 1 Month	RANKIN STREET	0	538	538	1/02/2022	27/01/2022
Sealed Network Inspection	Sealed 1 Month	RANUI AVENUE	0	390	390	25/01/2022	25/01/2022

Cyc Act Type	Cyc Act Freq	Road	Start	End	Length	Due Date	Completed Date
Unsealed Network Inspection	Unsealed 2 Month	RANUI ROAD	0	1883	1883	17/01/2022	18/01/2022
Unsealed Network Inspection	Unsealed 2 Month	RAPARAPA ROAD	0	700	700	20/01/2022	20/01/2022
Sealed Network Inspection	Sealed 1 Month	RAWENE ROAD	0	4489	4489	11/01/2022	14/01/2022
Sealed Network Inspection	Sealed 3 Month	RAYNER STREET	0	109	109	14/01/2022	11/01/2022
Sealed Network Inspection	Sealed 1 Month	RECREATION ROAD	0	597	597	11/01/2022	14/01/2022
Sealed Network Inspection	Sealed 1 Month	REDCLIFFS ROAD	0	3295	3295	26/01/2022	21/01/2022
Unsealed Network Inspection	Unsealed 1 Month	REDCLIFFS ROAD	3295	4089	794	13/01/2022	11/01/2022
Unsealed Network Inspection	Unsealed 1 Month	REMUERA SETTLEMENT ROAD	0	7186	7186	3/02/2022	28/01/2022
Unsealed Network Inspection	Unsealed 1 Month	RENWICK ROAD	0	2564	2564	21/01/2022	21/01/2022
Unsealed Network Inspection	Unsealed 2 Month	RENWICK ROAD (SIDE ROAD)	0	342	342	17/01/2022	17/01/2022
Unsealed Network Inspection	Unsealed 2 Month	RETREAT ROAD	332	547	215	3/02/2022	28/01/2022
Sealed Network Inspection	Sealed 1 Month	RIDDELL ROAD	0	732	732	11/01/2022	11/01/2022
Unsealed Network Inspection	Unsealed 1 Month	RIGDEN ROAD	0	1482	1482	1/02/2022	25/01/2022
Sealed Network Inspection	Sealed 3 Month	RIVERSTONE LANE	0	100	100	19/01/2022	19/01/2022
Sealed Network Inspection	Sealed 1 Month	RIVERVIEW ROAD	0	909	909	25/01/2022	24/01/2022
Sealed Network Inspection	Sealed 1 Month	ROBERTSON STREET	0	122	122	11/01/2022	13/01/2022
Sealed Network Inspection	Sealed 3 Month	ROSELLA ROAD	0	244	244	13/01/2022	11/01/2022
Unsealed Network Inspection	Unsealed 2 Month	ROWSELL LANE	0	361	361	11/01/2022	11/01/2022
Sealed Network Inspection	Sealed 1 Month	RUAPEKAPEKA ROAD	16886	17519	633	20/01/2022	24/01/2022

Cyc Act Type	Cyc Act Freq	Road	Start	End	Length	Due Date	Completed Date
Unsealed Network Inspection	Unsealed 1 Month	RUAPEKAPEKA ROAD	0	16886	16886	1/02/2022	26/01/2022
Unsealed Network Inspection	Unsealed 1 Month	RUSK ROAD	0	3696	3696	3/02/2022	28/01/2022
Unsealed Network Inspection	Unsealed 1 Month	RUSSELL-WHAKAPARA ROAD	12448	19957	7509	11/01/2022	13/01/2022
Unsealed Network Inspection	Unsealed 1 Month	SAIES ROAD	0	616	616	12/01/2022	14/01/2022
Sealed Network Inspection	Sealed 1 Month	SANDYS ROAD	0	2606	2606	10/01/2022	12/01/2022
Sealed Network Inspection	Sealed 3 Month	SCORESBY STREET	0	448	448	24/01/2022	19/01/2022
Sealed Network Inspection	Sealed 1 Month	SELWYN ROAD (PAIHIA)	0	239	239	17/01/2022	19/01/2022
Sealed Network Inspection	Sealed 3 Month	SERVICE LANE #2 (KAIKOHE)	0	69	69	4/02/2022	27/01/2022
Unsealed Network Inspection	Unsealed 1 Month	SETTLEMENT ROAD	0	1854	1854	1/02/2022	26/01/2022
Unsealed Network Inspection	Unsealed 1 Month	SHIRLEY ROAD	90	371	281	12/01/2022	13/01/2022
Unsealed Network Inspection	Unsealed 1 Month	SIGNAL ROAD	0	1150	1150	17/01/2022	18/01/2022
Unsealed Network Inspection	Unsealed 1 Month	SIGNAL STATION ROAD	1040	1316	276	12/01/2022	14/01/2022
Sealed Network Inspection	Sealed 3 Month	SIR GEORGE BACK STREET	0	258	258	13/01/2022	11/01/2022
Sealed Network Inspection	Sealed 3 Month	SIR JAMES HENARE PLACE	0	120	120	17/01/2022	24/01/2022
Sealed Network Inspection	Sealed 1 Month	SKUDDERS BEACH ROAD	0	1433	1433	14/01/2022	18/01/2022
Unsealed Network Inspection	Unsealed 2 Month	SMEATH ROAD (HUPARA)	0	309	309	2/02/2022	26/01/2022
Sealed Network Inspection	Sealed 3 Month	SMEATH ROAD (KAWAKAWA)	0	178	178	20/01/2022	25/01/2022
Unsealed Network Inspection	Unsealed 1 Month	SMITH CAMP ROAD	0	316	316	14/01/2022	15/01/2022
Unsealed Network Inspection	Unsealed 1 Month	SMITH ROAD (MOEREWA)	0	2074	2074	13/01/2022	13/01/2022

Cyc Act Type	Cyc Act Freq	Road	Start	End	Length	Due Date	Completed Date
Unsealed Network Inspection	Unsealed 2 Month	SMOOTHY ROAD	0	1480	1480	20/01/2022	20/01/2022
Unsealed Network Inspection	Unsealed 1 Month	SOMERVILLE ROAD	0	4701	4701	18/01/2022	18/01/2022
Unsealed Network Inspection	Unsealed 1 Month	SQUIRES LANE	0	588	588	12/01/2022	13/01/2022
Sealed Network Inspection	Sealed 1 Month	STANNERS ROAD	0	2072	2072	11/01/2022	13/01/2022
Unsealed Network Inspection	Unsealed 1 Month	STANNERS ROAD	2072	4367	2295	18/01/2022	18/01/2022
Sealed Network Inspection	Sealed 1 Month	STATION ROAD (KAIKOHE)	0	674	674	11/01/2022	14/01/2022
Unsealed Network Inspection	Unsealed 2 Month	STATION ROAD (KAWAKAWA)	104	215	111	13/01/2022	15/01/2022
Sealed Network Inspection	Sealed 3 Month	STELLA DRIVE (EAST)	0	44	44	28/01/2022	25/01/2022
Sealed Network Inspection	Sealed 3 Month	STELLA DRIVE (WEST)	0	66	66	11/01/2022	18/01/2022
Unsealed Network Inspection	Unsealed 2 Month	STEWARDS ROAD	0	1205	1205	3/02/2022	17/01/2022
Sealed Network Inspection	Sealed 3 Month	SULLIVAN ROAD EXTENSION	0	31	31	17/01/2022	19/01/2022
Unsealed Network Inspection	Unsealed 2 Month	SULLIVANS ROAD	258	340	82	3/02/2022	28/01/2022
Sealed Network Inspection	Sealed 3 Month	TAHEKE ROAD	0	6330	6330	19/01/2022	24/01/2022
Unsealed Network Inspection	Unsealed 1 Month	TAHEKE ROAD	6330	15438	9108	13/01/2022	12/01/2022
Unsealed Network Inspection	Unsealed 2 Month	TAHIWI ROAD	0	825	825	20/01/2022	20/01/2022
Unsealed Network Inspection	Unsealed 2 Month	TAIKIRAU ROAD	0	412	412	20/01/2022	20/01/2022
Sealed Network Inspection	Sealed 1 Month	TAKOU BAY ROAD	0	1308	1308	19/01/2022	20/01/2022
Unsealed Network Inspection	Unsealed 1 Month	TAKOU BAY ROAD	1308	6624	5316	17/01/2022	18/01/2022

Cyc Act Type	Cyc Act Freq	Road	Start	End	Length	Due Date	Completed Date
Unsealed Network Inspection	Unsealed 2 Month	TANA ROAD	0	230	230	17/01/2022	17/01/2022
Unsealed Network Inspection	Unsealed 1 Month	TAPEKA ROAD	1260	1325	65	28/01/2022	25/01/2022
Unsealed Network Inspection	Unsealed 1 Month	TAPUHI ROAD	358	11310	10952	28/01/2022	26/01/2022
Sealed Network Inspection	Sealed 3 Month	TAU HENARE DRIVE	0	2145	2145	12/01/2022	17/01/2022
Unsealed Network Inspection	Unsealed 1 Month	TAUMATAMAKUKU ROAD	353	473	120	28/01/2022	25/01/2022
Unsealed Network Inspection	Unsealed 2 Month	TAWATA ROAD	0	328	328	1/02/2022	17/01/2022
Sealed Network Inspection	Sealed 1 Month	TE AHU AHU ROAD	0	11848	11848	28/01/2022	26/01/2022
Sealed Network Inspection	Sealed 1 Month	TE HAUMI DRIVE	0	1072	1072	7/01/2022	11/01/2022
Drainage Inspection	Drainage 12 Month	TE IRENGA ROAD	0	2955	2955	3/05/2022	18/01/2022
Unsealed Network Inspection	Unsealed 2 Month	TE IRENGA ROAD	0	2955	2955	14/01/2022	14/01/2022
Unsealed Network Inspection	Unsealed 1 Month	TE IRENGA WEST ROAD	0	776	776	3/02/2022	28/01/2022
Sealed Network Inspection	Sealed 1 Month	TE KARUWHA PARADE	0	784	784	11/01/2022	13/01/2022
Unsealed Network Inspection	Unsealed 2 Month	TE KOWHAI POINT ROAD	0	1000	1000	14/01/2022	11/01/2022
Unsealed Network Inspection	Unsealed 2 Month	TE MOARI ROAD	0	254	254	21/01/2022	21/01/2022
Unsealed Network Inspection	Unsealed 2 Month	TE OHU ROAD	0	1648	1648	20/01/2022	20/01/2022
Unsealed Network Inspection	Unsealed 1 Month	TE RA ROAD	0	1498	1498	2/02/2022	27/01/2022
Sealed Network Inspection	Sealed 1 Month	TE TII ROAD	906	1280	374	11/01/2022	14/01/2022
Unsealed Network Inspection	Unsealed 1 Month	TE TII ROAD	0	601	601	12/01/2022	11/01/2022

Cyc Act Type	Cyc Act Freq	Road	Start	End	Length	Due Date	Completed Date
Drainage Inspection	Drainage 12 Month	TE TIO ROAD	0	8085	8085	4/04/2022	17/01/2022
Unsealed Network Inspection	Unsealed 1 Month	TE TIO ROAD	0	8085	8085	6/01/2022	11/01/2022
Sealed Network Inspection	Sealed 1 Month	TE WAHAPU ROAD	0	2744	2744	28/01/2022	26/01/2022
Unsealed Network Inspection	Unsealed 1 Month	TE WAIAROHIA ROAD	0	173	173	12/01/2022	14/01/2022
Sealed Network Inspection	Sealed 3 Month	THE STRAND (SOUTH)	0	339	339	21/01/2022	20/01/2022
Sealed Network Inspection	Sealed 1 Month	THORPE ROAD	300	835	535	11/01/2022	14/01/2022
Sealed Network Inspection	Sealed 1 Month	THORPE ROAD	0	300	300	27/01/2022	24/01/2022
Unsealed Network Inspection	Unsealed 1 Month	TIPENE ROAD	0	5944	5944	3/02/2022	28/01/2022
Unsealed Network Inspection	Unsealed 1 Month	TOKAWHERO ROAD	0	7763	7763	10/01/2022	10/01/2022
Unsealed Network Inspection	Unsealed 2 Month	TOPPS ACCESS ROAD	0	660	660	25/01/2022	21/01/2022
Sealed Network Inspection	Sealed 3 Month	TUI GLEN ROAD	0	379	379	19/01/2022	19/01/2022
Drainage Inspection	Drainage 12 Month	UMAWERA SCHOOL ROAD	0	525	525	5/04/2022	28/01/2022
Unsealed Network Inspection	Unsealed 2 Month	UPOKORAU ROAD	0	1781	1781	19/01/2022	19/01/2022
Sealed Network Inspection	Sealed 1 Month	VALENCIA LANE	0	1510	1510	26/01/2022	25/01/2022
Unsealed Network Inspection	Unsealed 2 Month	VUJCICH ROAD	0	1281	1281	20/01/2022	20/01/2022
Unsealed Network Inspection	Unsealed 2 Month	WAA HOTERENE ROAD	0	886	886	13/01/2022	14/01/2022
Unsealed Network Inspection	Unsealed 1 Month	WAHAMITI LANE	0	309	309	13/01/2022	13/01/2022
Sealed Network Inspection	Sealed 3 Month	WAIARE ROAD	29825	34563	4738	10/01/2022	17/01/2022
Unsealed Network Inspection	Unsealed 1 Month	WAIARE ROAD	12581	29825	17244	13/01/2022	13/01/2022

Cyc Act Type	Cyc Act Freq	Road	Start	End	Length	Due Date	Completed Date
Unsealed Network Inspection	Unsealed 1 Month	WAIKARAMU ROAD	0	2823	2823	14/01/2022	15/01/2022
Sealed Network Inspection	Sealed 3 Month	WAIKARE ROAD	16764	17882	1118	7/01/2022	13/01/2022
Sealed Network Inspection	Sealed 1 Month	WAIKARE ROAD	0	7985	7985	10/01/2022	11/01/2022
Unsealed Network Inspection	Unsealed 1 Month	WAIKARE ROAD	7985	16764	8779	14/01/2022	15/01/2022
Unsealed Network Inspection	Unsealed 1 Month	WAIKARE ROAD	17882	23437	5555	14/01/2022	15/01/2022
Unsealed Network Inspection	Unsealed 2 Month	WAIKARE VALLEY ROAD	0	4410	4410	1/02/2022	25/01/2022
Drainage Inspection	Drainage 12 Month	WAIKERIKERI ROAD	0	1209	1209	21/12/2021	25/01/2022
Unsealed Network Inspection	Unsealed 2 Month	WAIKERIKERI ROAD	0	1209	1209	21/01/2022	21/01/2022
Drainage Inspection	Drainage 12 Month	WAIKERIKERI ROAD EXTENSION	0	500	500	18/01/2022	25/01/2022
Unsealed Network Inspection	Unsealed 1 Month	WAIKINO ROAD	0	7413	7413	28/01/2022	24/01/2022
Unsealed Network Inspection	Unsealed 1 Month	WAIKUKU ROAD	0	2555	2555	7/01/2022	11/01/2022
Unsealed Network Inspection	Unsealed 1 Month	WAIMA SCHOOL ROAD	0	447	447	13/01/2022	12/01/2022
Unsealed Network Inspection	Unsealed 1 Month	WAIMA VALLEY ROAD	0	5557	5557	13/01/2022	12/01/2022
Unsealed Network Inspection	Unsealed 1 Month	WAIMAMAKU BEACH ROAD	0	4125	4125	12/01/2022	14/01/2022
Sealed Network Inspection	Sealed 1 Month	WAIMATE NORTH ROAD	0	11032	11032	10/01/2022	13/01/2022
Drainage Inspection	Drainage 12 Month	WAIMATENUI / MATARAUA ROAD	0	25398	25398	18/01/2022	17/01/2022
Sealed Network Inspection	Sealed 1 Month	WAIMATENUI / MATARAUA ROAD	0	8260	8260	11/01/2022	14/01/2022
Unsealed Network Inspection	Unsealed 1 Month	WAIMATENUI / MATARAUA ROAD	8260	25398	17138	6/01/2022	10/01/2022

Cyc Act Type	Cyc Act Freq	Road	Start	End	Length	Due Date	Completed Date
Unsealed Network Inspection	Unsealed 1 Month	WAIOMIO ROAD (WAIOMIO)	0	1146	1146	28/01/2022	25/01/2022
Unsealed Network Inspection	Unsealed 1 Month	WAIONE ROAD	0	1521	1521	12/01/2022	14/01/2022
Sealed Network Inspection	Sealed 3 Month	WAIPAPA LANDING PLACE	0	185	185	27/01/2022	24/01/2022
Sealed Network Inspection	Sealed 1 Month	WAIPAPA LOOP ROAD	0	221	221	12/01/2022	17/01/2022
Sealed Network Inspection	Sealed 2 Week	WAIPAPA ROAD	0	4223	4223	12/01/2022	14/01/2022
Sealed Network Inspection	Sealed 2 Week	WAIPAPA ROAD	0	4223	4223	26/01/2022	25/01/2022
Sealed Network Inspection	Sealed 1 Month	WAIPAPA WEST ROAD	0	1889	1889	11/01/2022	13/01/2022
Unsealed Network Inspection	Unsealed 1 Month	WAITAHEKE ROAD	0	2952	2952	3/02/2022	28/01/2022
Unsealed Network Inspection	Unsealed 1 Month	WAKELIN ROAD	0	3968	3968	1/02/2022	26/01/2022
Unsealed Network Inspection	Unsealed 2 Month	WAOKU ROAD	0	3234	3234	24/01/2022	24/01/2022
Sealed Network Inspection	Sealed 1 Month	WARD DRIVE	0	523	523	14/01/2022	11/01/2022
Sealed Network Inspection	Sealed 1 Month	WARD DRIVE (EAST)	0	234	234	13/01/2022	11/01/2022
Unsealed Network Inspection	Unsealed 2 Month	WEBSTER STREET	58	84	26	14/01/2022	12/01/2022
Sealed Network Inspection	Sealed 1 Month	WEHIRUA ROAD	0	1966	1966	12/01/2022	17/01/2022
Unsealed Network Inspection	Unsealed 2 Month	WELLSFORD ROAD	0	451	451	3/02/2022	27/01/2022
Sealed Network Inspection	Sealed 3 Month	WENDYWOOD LANE	0	245	245	7/01/2022	14/01/2022
Unsealed Network Inspection	Unsealed 2 Month	WHAAKAURU VALLEY ROAD	0	1080	1080	3/02/2022	28/01/2022
Unsealed Network Inspection	Unsealed 1 Month	WHAKATAHA ROAD	0	1690	1690	2/02/2022	27/01/2022
Unsealed Network Inspection	Unsealed 2 Month	WHANGAE ROAD	0	7506	7506	19/01/2022	19/01/2022

Cyc Act Type	Cyc Act Freq	Road	Start	End	Length	Due Date	Completed Date
Sealed Network Inspection	Sealed 3 Month	WHANGAE ROAD SRVC LANE	0	41	41	10/01/2022	11/01/2022
Sealed Network Inspection	Sealed 1 Month	WHANGARURU NORTH ROAD	0	130	130	27/01/2022	26/01/2022
Sealed Network Inspection	Sealed 3 Month	WHARAU ROAD	1043	2133	1090	12/01/2022	10/01/2022
Unsealed Network Inspection	Unsealed 1 Month	WHARAU ROAD	2133	4684	2551	18/01/2022	18/01/2022
Unsealed Network Inspection	Unsealed 1 Month	WHAREKAWA ROAD	0	3360	3360	23/12/2021	10/01/2022
Unsealed Network Inspection	Unsealed 2 Month	WHARENGAERE ROAD	0	818	818	10/01/2022	11/01/2022
Unsealed Network Inspection	Unsealed 1 Month	WHAREPUNGA ROAD	0	6976	6976	28/01/2022	25/01/2022
Sealed Network Inspection	Sealed 1 Month	WHARF ROAD (HARURU FALLS)	0	205	205	12/01/2022	17/01/2022
Unsealed Network Inspection	Unsealed 2 Month	WHIRINAKI SCHOOL ROAD	420	525	105	18/01/2022	17/01/2022
Drainage Inspection	Drainage 12 Month	WHITE ROAD (RANGIAHUA)	0	496	496	5/04/2022	27/01/2022
Unsealed Network Inspection	Unsealed 2 Month	WHITE ROAD (RANGIAHUA)	0	496	496	6/01/2022	11/01/2022
Unsealed Network Inspection	Unsealed 2 Month	WHIU ROAD	0	339	339	1/02/2022	17/01/2022
Sealed Network Inspection	Sealed 3 Month	WIHONGI STREET SERVICE LANE #1 (KAIKOHE)	0	251	251	26/01/2022	24/01/2022
Sealed Network Inspection	Sealed 1 Month	WILLIAMS ROAD	0	466	466	17/01/2022	19/01/2022
Sealed Network Inspection	Sealed 3 Month	WILLIAMS STREET (KAWAKAWA)	0	77	77	21/01/2022	24/01/2022
Sealed Network Inspection	Sealed 1 Month	WILSON ROAD	0	259	259	12/01/2022	17/01/2022
Sealed Network Inspection	Sealed 1 Month	WIROA ROAD	0	10677	10677	25/01/2022	25/01/2022
Sealed Network Inspection	Sealed 3 Month	WOODLEY PLACE	0	75	75	12/01/2022	18/01/2022
Sealed Network Inspection	Sealed 1 Month	YORK STREET	0	399	399	12/01/2022	13/01/2022
Sealed Network Inspection	Sealed 1 Month	YORKE ROAD	0	644	644	12/01/2022	17/01/2022
Sealed Network Inspection	Sealed 1 Month	YORKE ROAD (EAST)	0	31	31	12/01/2022	17/01/2022

Cyc Act Type	Cyc Act Freq	Road	Start	End	Length	Due Date	Completed Date
Unsealed Network Inspection	Unsealed 2 Month	YOUNGS ROAD	0	444	444	19/01/2022	19/01/2022

FEBRUARY 2022 INSPECTIONS

Cyc Act Freq	Cyc Act Type	Road	Start	End	Due Date	Completed Date
Unsealed 1 Month	Unsealed Network Inspection	ADAMS ROAD (AWARUA)	0	1624	9/02/2022	3/02/2022
Sealed 3 Month	Sealed Network Inspection	AKE AKE ROAD	0	73	18/02/2022	
Unsealed 1 Month	Unsealed Network Inspection	AKERAMA ROAD	0	4595	3/02/2022	28/01/2022
Sealed 3 Month	Sealed Network Inspection	ALBERT STREET	0	674	4/02/2022	4/02/2022
Sealed 3 Month	Sealed Network Inspection	AMOKURA DRIVE	0	358	18/02/2022	
Sealed 3 Month	Sealed Network Inspection	ASH GROVE CIRCLE	0	29	2/02/2022	1/02/2022
Sealed 1 Month	Sealed Network Inspection	AUCKS ROAD	0	3988	9/02/2022	3/02/2022
Sealed 3 Month	Sealed Network Inspection	AUGUSTA PLACE	0	77	18/02/2022	
Sealed 3 Month	Sealed Network Inspection	AUSTIN STREET	0	171	2/02/2022	1/02/2022
Sealed 1 Month	Sealed Network Inspection	BAFFIN STREET	0	680	8/02/2022	4/02/2022
Unsealed 1 Month	Unsealed Network Inspection	BAKER ROAD	0	43	2/02/2022	27/01/2022
Sealed 3 Month	Sealed Network Inspection	BAKER ROAD (OPONONI)	0	244	1/02/2022	27/01/2022
Sealed 3 Month	Sealed Network Inspection	BASKA VODA DRIVE	0	120	8/02/2022	1/02/2022
Sealed 3 Month	Sealed Network Inspection	BAYVIEW ROAD (PAIHIA)	115	562	9/02/2022	2/02/2022
Unsealed 1 Month	Unsealed Network Inspection	BEAUFORT ROAD	0	77	9/02/2022	4/02/2022
Drainage 12 Month	Drainage Inspection	BEDGGOOD ROAD	0	521	4/02/2022	1/12/2021
Sealed 3 Month	Sealed Network Inspection	BEECHEY STREET	0	378	14/02/2022	9/02/2022
Unsealed 1 Month	Unsealed Network Inspection	BLEDISLOE ROAD	0	200	11/02/2022	8/02/2022
Sealed 3 Month	Sealed Network Inspection	BLUE GUM LANE	0	700	2/02/2022	26/01/2022
Unsealed 2 Month	Unsealed Network Inspection	BOLERO ROAD	0	960	8/02/2022	2/02/2022
Sealed 3 Month	Sealed Network Inspection	BOWEN STREET	0	83	17/02/2022	
Drainage 12 Month	Drainage Inspection	BROWNS ROAD (TE IRENGA)	0	1325	22/02/2022	21/12/2021
Unsealed 1 Month	Unsealed Network Inspection	BROWNS ROAD (TE IRENGA)	0	1325	2/02/2022	27/01/2022

Cyc Act Freq	Cyc Act Type	Road	Start	End	Due Date	Completed Date
Unsealed 1 Month	Unsealed Network Inspection	BULLMANS ROAD	0	1583	16/02/2022	10/02/2022
Sealed 3 Month	Sealed Network Inspection	BUSH POINT ROAD (DOVES BAY)	0	450	9/02/2022	8/02/2022
Sealed 1 Month	Sealed Network Inspection	BUTLER ROAD	0	273	28/02/2022	
Unsealed 1 Month	Unsealed Network Inspection	CABBAGE TREE BAY ROAD	0	751	11/02/2022	8/02/2022
Unsealed 1 Month	Unsealed Network Inspection	CALLAGHANS ROAD	0	4270	18/02/2022	
Sealed 3 Month	Sealed Network Inspection	CAMPBELL LANE	0	142	16/02/2022	
Sealed 1 Month	Sealed Network Inspection	CANNON DRIVE	0	231	28/02/2022	
Sealed 3 Month	Sealed Network Inspection	CANNON DRIVE EXTENSION	0	214	1/02/2022	1/02/2022
Unsealed 1 Month	Unsealed Network Inspection	CAPRINE ROAD	0	324	24/02/2022	
Sealed 1 Month	Sealed Network Inspection	CASS STREET	0	64	9/02/2022	3/02/2022
Unsealed 2 Month	Unsealed Network Inspection	CAVALLI VIEW ROAD	0	600	9/02/2022	3/02/2022
Sealed 3 Month	Sealed Network Inspection	CHARLOTTE KEMP DRIVE	0	350	11/02/2022	9/02/2022
Sealed 3 Month	Sealed Network Inspection	CLIFFORD STREET	0	382	18/02/2022	11/02/2022
Sealed 2 Week	Sealed Network Inspection	COBHAM ROAD	0	1072	8/02/2022	10/02/2022
Sealed 2 Week	Sealed Network Inspection	COBHAM ROAD	0	1072	22/02/2022	
Unsealed 1 Month	Unsealed Network Inspection	COOK ROAD	0	1559	14/02/2022	10/02/2022
Unsealed 1 Month	Unsealed Network Inspection	COOKSON ROAD	0	1023	17/02/2022	11/02/2022
Sealed 1 Month	Sealed Network Inspection	COTTLE HILL DRIVE	0	724	8/02/2022	11/02/2022
Unsealed 1 Month	Unsealed Network Inspection	COURTHOUSE LANE	0	247	8/02/2022	2/02/2022
Sealed 3 Month	Sealed Network Inspection	COUTTS AVENUE	0	137	9/02/2022	2/02/2022
Unsealed 2 Month	Unsealed Network Inspection	CUMBER ROAD SIDE ROAD	0	176	1/02/2022	26/01/2022
Sealed 1 Month	Sealed Network Inspection	DARWIN ROAD	0	438	25/02/2022	
Sealed 1 Month	Sealed Network Inspection	DAVIS CRESCENT (PAIHIA)	0	358	23/02/2022	
Unsealed 2 Month	Unsealed Network Inspection	DAVIS STRONGMAN PLACE	426	625	17/02/2022	10/02/2022

Cyc Act Freq	Cyc Act Type	Road	Start	End	Due Date	Completed Date
Sealed 1 Month	Sealed Network Inspection	DE MERLE STREET	0	739	14/02/2022	11/02/2022
Drainage 12 Month	Drainage Inspection	DE THIERRY STREET	765	1102	11/02/2022	24/11/2021
Sealed 3 Month	Sealed Network Inspection	DE THIERRY STREET	0	765	23/02/2022	
Sealed 3 Month	Sealed Network Inspection	DERRICK ROAD EXTENSION	0	68	22/02/2022	
Sealed 1 Month	Sealed Network Inspection	DICKESON STREET	0	99	14/02/2022	
Unsealed 2 Month	Unsealed Network Inspection	DONALDSON ROAD	0	1110	8/02/2022	1/02/2022
Unsealed 1 Month	Unsealed Network Inspection	DOONSIDE ROAD	0	472	9/02/2022	4/02/2022
Sealed 3 Month	Sealed Network Inspection	DOVES BAY ROAD	0	875	9/02/2022	8/02/2022
Unsealed 1 Month	Unsealed Network Inspection	DUDDY ROAD	0	7148	24/02/2022	
Sealed 3 Month	Sealed Network Inspection	EDMONDS ROAD	0	422	21/02/2022	
Unsealed 1 Month	Unsealed Network Inspection	EDMONDS ROAD	422	1193	16/02/2022	10/02/2022
Sealed 3 Month	Sealed Network Inspection	FAIRVIEW ROAD	0	96	21/02/2022	
Sealed 2 Week	Sealed Network Inspection	FAIRWAY DRIVE	0	141	11/02/2022	
Sealed 2 Week	Sealed Network Inspection	FAIRWAY DRIVE	0	141	25/02/2022	
Sealed 3 Month	Sealed Network Inspection	FAIRWAY DRIVE SRVC LANE 1	0	83	18/02/2022	
Sealed 1 Month	Sealed Network Inspection	FALLS VIEW ROAD	0	289	15/02/2022	
Sealed 3 Month	Sealed Network Inspection	FERNBIRD GROVE	0	150	23/02/2022	
Sealed 3 Month	Sealed Network Inspection	FIELDVIEW	0	100	11/02/2022	
Sealed 1 Month	Sealed Network Inspection	FLAGSTAFF HILL	0	405	14/02/2022	
Unsealed 1 Month	Unsealed Network Inspection	FORDS ROAD	0	1616	14/02/2022	11/02/2022
Sealed 1 Month	Sealed Network Inspection	FRANKLIN STREET	0	873	28/02/2022	
Unsealed 2 Month	Unsealed Network Inspection	FRASER ROAD	0	25	1/02/2022	26/01/2022
Sealed 3 Month	Sealed Network Inspection	FULLER PLACE (KAIKOHE)	0	140	21/02/2022	
Unsealed 2 Month	Unsealed Network Inspection	FURNESS ROAD	0	835	17/02/2022	10/02/2022

Cyc Act Freq	Cyc Act Type	Road	Start	End	Due Date	Completed Date
Sealed 3 Month	Sealed Network Inspection	GARDEN COURT	0	30	14/02/2022	
Sealed 3 Month	Sealed Network Inspection	GENERAL GATES AVENUE	0	150	8/02/2022	1/02/2022
Unsealed 1 Month	Unsealed Network Inspection	GILES ROAD	0	2400	3/02/2022	28/01/2022
Unsealed 2 Month	Unsealed Network Inspection	GLENDALE HEIGHTS	0	577	3/02/2022	27/01/2022
Sealed 3 Month	Sealed Network Inspection	GOFFE DRIVE	0	458	14/02/2022	
Sealed 1 Month	Sealed Network Inspection	GOLF VIEW ROAD	0	246	28/02/2022	
Sealed 3 Month	Sealed Network Inspection	GOLF VIEW ROAD	246	340	28/02/2022	
Drainage 12 Month	Drainage Inspection	GREEN LANE	0	716	9/02/2022	
Unsealed 1 Month	Unsealed Network Inspection	GREEN LANE	0	716	24/02/2022	
Drainage 12 Month	Drainage Inspection	GREEN LANE EXTENSION	0	104	9/02/2022	
Sealed 1 Month	Sealed Network Inspection	GREY STREET (KAWAKAWA)	0	140	14/02/2022	9/02/2022
Unsealed 2 Month	Unsealed Network Inspection	GUTHRIE ROAD	0	635	16/02/2022	
Unsealed 1 Month	Unsealed Network Inspection	HANSEN ROAD (PURERUA)	0	578	16/02/2022	
Unsealed 2 Month	Unsealed Network Inspection	HAPANGA ROAD	0	590	17/02/2022	
Unsealed 1 Month	Unsealed Network Inspection	HAPPY VALLEY ROAD	0	4845	9/02/2022	3/02/2022
Drainage 12 Month	Drainage Inspection	HARIRU ROAD	0	3780	24/02/2022	
Drainage 12 Month	Drainage Inspection	HARRISON ROAD	0	675	24/02/2022	26/01/2022
Sealed 1 Month	Sealed Network Inspection	HARURU FALLS ROAD	375	1458	15/02/2022	
Unsealed 1 Month	Unsealed Network Inspection	HARURU FALLS ROAD	1458	4730	9/02/2022	4/02/2022
Unsealed 1 Month	Unsealed Network Inspection	HAUTAPU ROAD	0	5977	2/02/2022	26/01/2022
Sealed 3 Month	Sealed Network Inspection	HAWKE DRIVE	0	235	14/02/2022	
Unsealed 2 Month	Unsealed Network Inspection	HAY ROAD	0	2245	17/02/2022	11/02/2022
Unsealed 2 Month	Unsealed Network Inspection	HENARE ROAD	0	995	15/02/2022	11/02/2022
Sealed 2 Week	Sealed Network Inspection	HERITAGE BYPASS	0	1455	8/02/2022	10/02/2022

Cyc Act Freq	Cyc Act Type	Road	Start	End	Due Date	Completed Date
Sealed 2 Week	Sealed Network Inspection	HERITAGE BYPASS	0	1455	22/02/2022	
Sealed 3 Month	Sealed Network Inspection	HIHITAHI RISE	0	505	9/02/2022	2/02/2022
Unsealed 2 Month	Unsealed Network Inspection	HIKUWAI ROAD	0	900	18/02/2022	
Sealed 1 Month	Sealed Network Inspection	HILLCREST ROAD (KAIKOHE)	0	320	14/02/2022	11/02/2022
Sealed 3 Month	Sealed Network Inspection	HILLCREST ROAD (KAIKOHE)	320	1205	21/02/2022	
Unsealed 2 Month	Unsealed Network Inspection	HILLCREST ROAD (KAIKOHE)	1205	1645	28/02/2022	
Sealed 2 Week	Sealed Network Inspection	HOBSON AVENUE (KERIKERI)	0	345	15/02/2022	
Unsealed 2 Month	Unsealed Network Inspection	HOBSON ROAD (MANGAMUKA)	0	479	2/02/2022	27/01/2022
Sealed 1 Month	Sealed Network Inspection	HOBSON ROAD (OHAEWAI)	0	141	4/02/2022	4/02/2022
Sealed 2 Week	Sealed Network Inspection	HOMESTEAD ROAD	0	324	14/02/2022	
Sealed 2 Week	Sealed Network Inspection	HOMESTEAD ROAD	0	324	28/02/2022	
Unsealed 1 Month	Unsealed Network Inspection	HOMESTEAD ROAD SRVC LANE 1	0	40	21/02/2022	
Sealed 1 Month	Sealed Network Inspection	HONE HEKE ROAD	0	1450	8/02/2022	2/02/2022
Unsealed 1 Month	Unsealed Network Inspection	HONGI STREET	590	640	1/02/2022	26/01/2022
Unsealed 1 Month	Unsealed Network Inspection	HORAHORA ROAD	0	5157	18/02/2022	
Drainage 12 Month	Drainage Inspection	HOREKE ROAD	0	15971	1/02/2022	26/01/2022
Unsealed 1 Month	Unsealed Network Inspection	HOREKE ROAD	2601	11570	14/02/2022	10/02/2022
Sealed 1 Month	Sealed Network Inspection	HOSPITAL ROAD (KAWAKAWA)	0	292	9/02/2022	4/02/2022
Unsealed 1 Month	Unsealed Network Inspection	HUPARA ROAD	3505	4196	2/02/2022	26/01/2022
Unsealed 1 Month	Unsealed Network Inspection	HUPARA ROAD (EAST)	0	609	2/02/2022	26/01/2022
Unsealed 1 Month	Unsealed Network Inspection	IMMS ROAD (LAKE OMAPERE)	0	4102	16/02/2022	10/02/2022
Unsealed 2 Month	Unsealed Network Inspection	INKSTERS ROAD	0	5364	11/02/2022	4/02/2022
Sealed 3 Month	Sealed Network Inspection	IRONBARK ROAD	0	638	2/02/2022	9/02/2022
Drainage 12 Month	Drainage Inspection	JENKINS ROAD	0	399	24/02/2022	

Cyc Act Freq	Cyc Act Type	Road	Start	End	Due Date	Completed Date
Unsealed 1 Month	Unsealed Network Inspection	JORDAN ROAD	0	10906	11/02/2022	8/02/2022
Sealed 1 Month	Sealed Network Inspection	KAHIKATEAROA LANE	0	264	10/02/2022	8/02/2022
Sealed 3 Month	Sealed Network Inspection	KAIPATIKI RISE	0	94	18/02/2022	
Sealed 3 Month	Sealed Network Inspection	KANE STREET (EAST)	0	67	14/02/2022	9/02/2022
Sealed 3 Month	Sealed Network Inspection	KANE STREET (WEST)	0	84	14/02/2022	9/02/2022
Sealed 1 Month	Sealed Network Inspection	KAPIRO ROAD	0	5790	11/02/2022	
Sealed 3 Month	Sealed Network Inspection	KARAKA DRIVE	0	168	28/02/2022	
Sealed 3 Month	Sealed Network Inspection	KELLET STREET BUS BAY TURNAROUND	0	70	2/02/2022	1/02/2022
Sealed 1 Month	Sealed Network Inspection	KEMPTHORNE ROAD	0	2800	28/02/2022	
Sealed 3 Month	Sealed Network Inspection	KENDALL ROAD	0	887	1/02/2022	1/02/2022
Sealed 3 Month	Sealed Network Inspection	KERI DOWNS ROAD	0	1217	10/02/2022	9/02/2022
Sealed 3 Month	Sealed Network Inspection	KERIDALE LANE	0	158	11/02/2022	
Sealed 3 Month	Sealed Network Inspection	KERIKERI GROVE	0	225	18/02/2022	
Sealed 1 Month	Sealed Network Inspection	KERIKERI INLET ROAD	1378	9032	11/02/2022	
Sealed 2 Week	Sealed Network Inspection	KERIKERI INLET ROAD	0	1378	15/02/2022	
Unsealed 1 Month	Unsealed Network Inspection	KERIKERI INLET ROAD	9032	9686	21/02/2022	
Sealed 2 Week	Sealed Network Inspection	KERIKERI ROAD	0	2974	11/02/2022	
Sealed 2 Week	Sealed Network Inspection	KERIKERI ROAD	2974	4268	11/02/2022	
Sealed 1 Month	Sealed Network Inspection	KERIKERI ROAD	4268	5304	11/02/2022	
Sealed 2 Week	Sealed Network Inspection	KERIKERI ROAD	0	2974	25/02/2022	
Sealed 2 Week	Sealed Network Inspection	KERIKERI ROAD	2974	4268	25/02/2022	
Sealed 3 Month	Sealed Network Inspection	KING STREET	0	202	28/02/2022	
Sealed 3 Month	Sealed Network Inspection	KINGFISHER DRIVE	0	525	4/02/2022	9/02/2022
Unsealed 1 Month	Unsealed Network Inspection	KINGFISHER POINT ROAD	0	330	16/02/2022	11/02/2022

Cyc Act Freq	Cyc Act Type	Road	Start	End	Due Date	Completed Date
Sealed 1 Month	Sealed Network Inspection	KINGS ROAD	0	230	11/02/2022	8/02/2022
Sealed 1 Month	Sealed Network Inspection	KLINAC LANE	0	872	10/02/2022	8/02/2022
Drainage 12 Month	Drainage Inspection	KOHEWHATA PLACE	0	336	22/02/2022	
Unsealed 2 Month	Unsealed Network Inspection	KOKINGA POINT ROAD	0	220	18/02/2022	
Unsealed 1 Month	Unsealed Network Inspection	KORANAE ROAD	0	363	11/02/2022	8/02/2022
Unsealed 1 Month	Unsealed Network Inspection	KOROPEWA ROAD	0	1833	3/02/2022	28/01/2022
Sealed 3 Month	Sealed Network Inspection	KOTARE HEIGHTS	0	230	2/02/2022	1/02/2022
Sealed 3 Month	Sealed Network Inspection	KOTUKU ROAD	0	281	23/02/2022	
Sealed 1 Month	Sealed Network Inspection	KOUTU LOOP ROAD	0	2441	14/02/2022	11/02/2022
Unsealed 1 Month	Unsealed Network Inspection	KOUTU LOOP ROAD	2820	8291	11/02/2022	8/02/2022
Unsealed 1 Month	Unsealed Network Inspection	KOUTU POINT ROAD	730	990	1/02/2022	27/01/2022
Sealed 3 Month	Sealed Network Inspection	KOWHAI AVENUE (KAIKOHE)	0	303	21/02/2022	
Unsealed 2 Month	Unsealed Network Inspection	KUPA ROAD	0	1631	14/02/2022	9/02/2022
Unsealed 1 Month	Unsealed Network Inspection	KURAPARI ROAD	0	560	14/02/2022	10/02/2022
Unsealed 1 Month	Unsealed Network Inspection	LAKE ROAD (OKAIHAU)	1088	9815	16/02/2022	10/02/2022
Unsealed 2 Month	Unsealed Network Inspection	LAMBERG ROAD	0	1139	15/02/2022	10/02/2022
Sealed 3 Month	Sealed Network Inspection	LANARK ROAD	0	288	9/02/2022	2/02/2022
Sealed 1 Month	Sealed Network Inspection	LANDING ROAD (KERIKERI)	228	709	8/02/2022	
Sealed 2 Week	Sealed Network Inspection	LANDING ROAD (KERIKERI)	709	1823	11/02/2022	
Sealed 2 Week	Sealed Network Inspection	LANDING ROAD (KERIKERI)	1823	2489	11/02/2022	
Sealed 2 Week	Sealed Network Inspection	LANDING ROAD (KERIKERI)	709	1823	25/02/2022	
Sealed 2 Week	Sealed Network Inspection	LANDING ROAD (KERIKERI)	1823	2489	25/02/2022	
Sealed 3 Month	Sealed Network Inspection	LANES ROAD	0	315	28/02/2022	
Sealed 3 Month	Sealed Network Inspection	LEONARD STREET	0	109	4/02/2022	1/02/2022

Cyc Act Freq	Cyc Act Type	Road	Start	End	Due Date	Completed Date
Sealed 3 Month	Sealed Network Inspection	LIMELIGHT LANE	0	140	17/02/2022	
Unsealed 1 Month	Unsealed Network Inspection	LODORE ROAD	0	5921	24/02/2022	
Unsealed 1 Month	Unsealed Network Inspection	LODORE ROAD (EAST)	0	569	2/02/2022	26/01/2022
Sealed 3 Month	Sealed Network Inspection	LONG BEACH ROAD	0	1487	28/02/2022	
Unsealed 2 Month	Unsealed Network Inspection	LUDBROOKS ROAD	0	3089	1/02/2022	26/01/2022
Sealed 3 Month	Sealed Network Inspection	LYON STREET	0	294	14/02/2022	
Sealed 3 Month	Sealed Network Inspection	MACMURRAY ROAD	0	201	9/02/2022	2/02/2022
Sealed 1 Month	Sealed Network Inspection	MANAWAORA ROAD	0	5945	15/02/2022	
Sealed 1 Month	Sealed Network Inspection	MANGAKARETU ROAD	0	1190	15/02/2022	
Unsealed 2 Month	Unsealed Network Inspection	MANGATARAIRE ROAD	0	2816	16/02/2022	10/02/2022
Sealed 1 Month	Sealed Network Inspection	MARAENUI DRIVE	0	450	9/02/2022	9/02/2022
Unsealed 1 Month	Unsealed Network Inspection	MARAENUI DRIVE	450	470	15/02/2022	10/02/2022
Sealed 1 Month	Sealed Network Inspection	MARINO PLACE	0	124	14/02/2022	
Unsealed 1 Month	Unsealed Network Inspection	MARLOW ROAD	0	8448	8/02/2022	2/02/2022
Sealed 1 Month	Sealed Network Inspection	MAROMAKU-TOWAI ROAD	0	2860	14/02/2022	
Unsealed 1 Month	Unsealed Network Inspection	MAROMAKU-TOWAI ROAD	2860	6794	1/02/2022	26/01/2022
Unsealed 2 Month	Unsealed Network Inspection	MARSHALL ROAD	0	1513	10/02/2022	3/02/2022
Sealed 3 Month	Sealed Network Inspection	MARSHALL STREET (MOEREWA)	0	120	17/02/2022	
Unsealed 2 Month	Unsealed Network Inspection	MARTIN ROAD (POKERE)	0	1227	18/02/2022	
Unsealed 2 Month	Unsealed Network Inspection	MASONS ROAD	0	946	17/02/2022	11/02/2022
Sealed 1 Month	Sealed Network Inspection	MATAUWHI ROAD	0	443	15/02/2022	
Unsealed 1 Month	Unsealed Network Inspection	MATAWAIA-MAROMAKU ROAD	0	19830	18/02/2022	
Sealed 1 Month	Sealed Network Inspection	MCFARLANE STREET (SOUTH)	0	105	14/02/2022	9/02/2022
Unsealed 1 Month	Unsealed Network Inspection	MCINTYRES ROAD	0	7981	11/02/2022	9/02/2022

Cyc Act Freq	Cyc Act Type	Road	Start	End	Due Date	Completed Date
Sealed 1 Month	Sealed Network Inspection	MEMORIAL AVENUE	0	304	14/02/2022	
Sealed 3 Month	Sealed Network Inspection	MEMORIAL AVENUE SVCE LANE	0	125	3/02/2022	27/01/2022
Unsealed 2 Month	Unsealed Network Inspection	MIHI ROAD	0	830	11/02/2022	4/02/2022
Unsealed 2 Month	Unsealed Network Inspection	MIHIRATA ROAD	0	1781	11/02/2022	4/02/2022
Sealed 1 Month	Sealed Network Inspection	MILL LANE	0	460	14/02/2022	
Unsealed 1 Month	Unsealed Network Inspection	MILL ROAD	331	4421	11/02/2022	9/02/2022
Unsealed 2 Month	Unsealed Network Inspection	MISSION OAK ROAD	0	1714	8/02/2022	2/02/2022
Sealed 3 Month	Sealed Network Inspection	MOANA AVENUE	0	78	9/02/2022	2/02/2022
Unsealed 2 Month	Unsealed Network Inspection	MOEHAU ROAD	0	2366	16/02/2022	
Unsealed 1 Month	Unsealed Network Inspection	MONTROSE ROAD	232	1250	8/02/2022	2/02/2022
Unsealed 2 Month	Unsealed Network Inspection	MONUMENT ROAD	0	8770	17/02/2022	11/02/2022
Unsealed 1 Month	Unsealed Network Inspection	MOTUKIORE ROAD	0	13880	18/02/2022	
Unsealed 2 Month	Unsealed Network Inspection	MUDGWAY ROAD	0	947	2/02/2022	27/01/2022
Unsealed 2 Month	Unsealed Network Inspection	NELSONS ROAD	0	2828	14/02/2022	9/02/2022
Sealed 1 Month	Sealed Network Inspection	NESS ROAD	0	1333	15/02/2022	
Sealed 3 Month	Sealed Network Inspection	NESS ROAD	1333	2524	15/02/2022	
Unsealed 1 Month	Unsealed Network Inspection	NEWTON ROAD	0	2200	4/02/2022	1/02/2022
Unsealed 2 Month	Unsealed Network Inspection	NGAHUHU ROAD	0	548	1/02/2022	26/01/2022
Sealed 1 Month	Sealed Network Inspection	NGAPIPITO ROAD	8435	19112	11/02/2022	11/02/2022
Unsealed 1 Month	Unsealed Network Inspection	NGAPIPITO ROAD	3500	8435	11/02/2022	9/02/2022
Unsealed 1 Month	Unsealed Network Inspection	NGAPUHI ROAD	0	445	3/02/2022	28/01/2022
Drainage 12 Month	Drainage Inspection	NGAPUHI ROAD (KAIKOHE)	0	2705	23/02/2022	
Unsealed 1 Month	Unsealed Network Inspection	NGAPUHI ROAD (KAIKOHE)	0	2705	2/02/2022	27/01/2022
Sealed 1 Month	Sealed Network Inspection	NGAWHA SPRINGS ROAD	0	2695	14/02/2022	9/02/2022

Cyc Act Freq	Cyc Act Type	Road	Start	End	Due Date	Completed Date
Unsealed 1 Month	Unsealed Network Inspection	NGAWHITU ROAD	365	3048	2/02/2022	27/01/2022
Sealed 1 Month	Sealed Network Inspection	NINIHI ROAD	0	245	14/02/2022	11/02/2022
Unsealed 1 Month	Unsealed Network Inspection	NINIHI ROAD	245	5114	24/02/2022	
Sealed 3 Month	Sealed Network Inspection	NORFOLK PLACE	0	226	8/02/2022	1/02/2022
Sealed 3 Month	Sealed Network Inspection	NOVA STREET	0	75	14/02/2022	9/02/2022
Unsealed 1 Month	Unsealed Network Inspection	NOY ROAD	0	844	11/02/2022	9/02/2022
Sealed 3 Month	Sealed Network Inspection	OAKRIDGE DRIVE	0	140	11/02/2022	9/02/2022
Unsealed 1 Month	Unsealed Network Inspection	OETZMAN ROAD	0	1928	16/02/2022	
Sealed 3 Month	Sealed Network Inspection	OHARA STREET	0	312	28/02/2022	
Sealed 3 Month	Sealed Network Inspection	OHURI ROAD	0	679	14/02/2022	
Sealed 1 Month	Sealed Network Inspection	OKAIHAU ROAD	0	5468	11/02/2022	9/02/2022
Drainage 12 Month	Drainage Inspection	OKAKA ROAD	0	2014	4/02/2022	24/01/2022
Unsealed 1 Month	Unsealed Network Inspection	OKOKAKO ROAD	0	2196	11/02/2022	9/02/2022
Sealed 3 Month	Sealed Network Inspection	OKURA DRIVE	0	400	21/02/2022	
Sealed 3 Month	Sealed Network Inspection	OLD NORTH ROAD EXTENSION	0	47	2/02/2022	4/02/2022
Unsealed 1 Month	Unsealed Network Inspection	OLD VALLEY ROAD	0	565	17/02/2022	
Sealed 1 Month	Sealed Network Inspection	OLD WHARF ROAD (OPONONI)	0	102	10/02/2022	4/02/2022
Unsealed 1 Month	Unsealed Network Inspection	OMANAIA ROAD	0	4705	16/02/2022	
Unsealed 1 Month	Unsealed Network Inspection	OMAPERE ROAD	556	1530	9/02/2022	3/02/2022
Sealed 1 Month	Sealed Network Inspection	ONEKURA ROAD	0	1900	15/02/2022	
Unsealed 2 Month	Unsealed Network Inspection	OPAHI STATION ROAD	0	1395	3/02/2022	28/01/2022
Sealed 1 Month	Sealed Network Inspection	OPITO BAY ROAD	0	4132	10/02/2022	8/02/2022
Unsealed 1 Month	Unsealed Network Inspection	ORAKAU ROAD	272	16442	14/02/2022	11/02/2022
Sealed 3 Month	Sealed Network Inspection	ORCHARD ROAD (HARURU FALLS)	0	172	9/02/2022	2/02/2022

Cyc Act Freq	Cyc Act Type	Road	Start	End	Due Date	Completed Date
Sealed 1 Month	Sealed Network Inspection	ORCHARD ROAD (KAPIRO)	0	1065	16/02/2022	
Unsealed 2 Month	Unsealed Network Inspection	ORIRA ROAD	0	3815	2/02/2022	27/01/2022
Sealed 3 Month	Sealed Network Inspection	ORMONDE PLACE	0	248	16/02/2022	11/02/2022
Sealed 1 Month	Sealed Network Inspection	OROMAHOE ROAD	14860	15646	14/02/2022	9/02/2022
Unsealed 1 Month	Unsealed Network Inspection	OROMAHOE ROAD	0	14860	11/02/2022	9/02/2022
Unsealed 1 Month	Unsealed Network Inspection	OTAENGA ROAD	0	1393	11/02/2022	8/02/2022
Unsealed 2 Month	Unsealed Network Inspection	OTAERE ROAD	0	156	17/02/2022	10/02/2022
Unsealed 1 Month	Unsealed Network Inspection	OTAHA ROAD	0	4654	16/02/2022	
Drainage 12 Month	Drainage Inspection	OTATARA MARAE ROAD	0	882	4/02/2022	1/12/2021
Unsealed 1 Month	Unsealed Network Inspection	OTATARA MARAE ROAD	0	882	8/02/2022	2/02/2022
Sealed 1 Month	Sealed Network Inspection	OTIRIA ROAD	0	1081	9/02/2022	8/02/2022
Sealed 1 Month	Sealed Network Inspection	OTIRIA ROAD	1081	2780	9/02/2022	8/02/2022
Sealed 1 Month	Sealed Network Inspection	PA ROAD	0	930	10/02/2022	
Unsealed 1 Month	Unsealed Network Inspection	PA ROAD	930	958	16/02/2022	11/02/2022
Unsealed 1 Month	Unsealed Network Inspection	PAIAKA ROAD	0	6703	3/02/2022	28/01/2022
Sealed 1 Month	Sealed Network Inspection	PAKARU ROAD	0	3970	2/02/2022	1/02/2022
Unsealed 1 Month	Unsealed Network Inspection	PAKARU ROAD	4051	10203	11/02/2022	9/02/2022
Unsealed 2 Month	Unsealed Network Inspection	PAKEHAUA ROAD	0	1000	3/02/2022	28/01/2022
Sealed 1 Month	Sealed Network Inspection	PARK ROAD	0	384	14/02/2022	11/02/2022
Sealed 1 Month	Sealed Network Inspection	PARNELL STREET	0	1901	14/02/2022	11/02/2022
Sealed 1 Month	Sealed Network Inspection	PATAKA LANE	0	142	10/02/2022	8/02/2022
Sealed 3 Month	Sealed Network Inspection	PEACOCK GARDEN DRIVE	0	291	8/02/2022	1/02/2022
Sealed 1 Month	Sealed Network Inspection	PEMBROKE STREET	0	475	15/02/2022	
Sealed 3 Month	Sealed Network Inspection	PENNEY CRESCENT (KAIKOHE)	0	358	16/02/2022	

Cyc Act Freq	Cyc Act Type	Road	Start	End	Due Date	Completed Date
Unsealed 2 Month	Unsealed Network Inspection	PERRY ROAD	0	2190	17/02/2022	
Sealed 1 Month	Sealed Network Inspection	PICADILLY ROAD	0	26	3/02/2022	4/02/2022
Sealed 3 Month	Sealed Network Inspection	PICADILLY ROAD	26	979	16/02/2022	
Unsealed 1 Month	Unsealed Network Inspection	PICADILLY ROAD	979	5315	11/02/2022	8/02/2022
Sealed 3 Month	Sealed Network Inspection	PICKMERE LANE	0	217	18/02/2022	
Unsealed 1 Month	Unsealed Network Inspection	PIPIWAI ROAD	0	13073	3/02/2022	28/01/2022
Unsealed 2 Month	Unsealed Network Inspection	POIEKE ROAD	0	780	17/02/2022	
Sealed 1 Month	Sealed Network Inspection	POKAPU ROAD	0	7350	15/02/2022	
Unsealed 1 Month	Unsealed Network Inspection	POKAPU ROAD	7350	12724	16/02/2022	11/02/2022
Unsealed 2 Month	Unsealed Network Inspection	POKERE ROAD	0	577	16/02/2022	11/02/2022
Sealed 3 Month	Sealed Network Inspection	POPLAR LANE	0	331	1/02/2022	26/01/2022
Unsealed 1 Month	Unsealed Network Inspection	POROTU ROAD	0	2220	1/02/2022	26/01/2022
Unsealed 2 Month	Unsealed Network Inspection	PUHA ROAD	0	4859	8/02/2022	2/02/2022
Sealed 3 Month	Sealed Network Inspection	PUIA STREET	0	561	28/02/2022	
Unsealed 2 Month	Unsealed Network Inspection	PUKEPOTO ROAD (OKAIHAU)	0	937	15/02/2022	10/02/2022
Unsealed 1 Month	Unsealed Network Inspection	PUKETI ROAD	0	9432	2/02/2022	27/01/2022
Sealed 3 Month	Sealed Network Inspection	PUKETIRO PLACE	0	223	9/02/2022	2/02/2022
Sealed 1 Month	Sealed Network Inspection	PUKETOTARA ROAD	0	4712	15/02/2022	
Unsealed 1 Month	Unsealed Network Inspection	PUKETOTARA ROAD	5218	13165	8/02/2022	1/02/2022
Sealed 1 Month	Sealed Network Inspection	PUNAKITERE LOOP ROAD	0	967	14/02/2022	11/02/2022
Unsealed 1 Month	Unsealed Network Inspection	PUNAKITERE LOOP ROAD	967	5515	1/02/2022	27/01/2022
Sealed 1 Month	Sealed Network Inspection	PUNGAERE ROAD	0	8820	15/02/2022	
Sealed 3 Month	Sealed Network Inspection	PURDY STREET	0	430	21/02/2022	
Sealed 1 Month	Sealed Network Inspection	PURERUA ROAD	0	9578	10/02/2022	9/02/2022

Cyc Act Freq	Cyc Act Type	Road	Start	End	Due Date	Completed Date
Unsealed 1 Month	Unsealed Network Inspection	PURERUA ROAD	9578	15440	8/02/2022	2/02/2022
Unsealed 1 Month	Unsealed Network Inspection	QUARRY ROAD (KAIKOHE)	242	623	11/02/2022	8/02/2022
Sealed 1 Month	Sealed Network Inspection	QUEEN STREET (RUSSELL)	0	103	14/02/2022	
Unsealed 1 Month	Unsealed Network Inspection	QUINCES LANDING	0	344	11/02/2022	8/02/2022
Unsealed 1 Month	Unsealed Network Inspection	RAHIRI SETTLEMENT ROAD	0	2008	16/02/2022	
Sealed 1 Month	Sealed Network Inspection	RAIHARA STREET	0	443	1/02/2022	27/01/2022
Sealed 1 Month	Sealed Network Inspection	RAINBOW FALLS ROAD	0	850	14/02/2022	
Drainage 12 Month	Drainage Inspection	RAKAUTAO ROAD	0	353	23/02/2022	
Drainage 12 Month	Drainage Inspection	RAKAUWAHIA ROAD	0	10419	22/02/2022	22/02/2022
Sealed 3 Month	Sealed Network Inspection	RAKAUWAHIA ROAD	0	1298	22/02/2022	
Unsealed 1 Month	Unsealed Network Inspection	RAKAUWAHIA ROAD	1298	10419	11/02/2022	8/02/2022
Unsealed 2 Month	Unsealed Network Inspection	RANGE ROAD	0	3034	9/02/2022	4/02/2022
Sealed 1 Month	Sealed Network Inspection	RANGIAHUA ROAD	0	6402	3/02/2022	2/02/2022
Sealed 3 Month	Sealed Network Inspection	RANGIHAMAMA ROAD	0	2058	18/02/2022	
Unsealed 2 Month	Unsealed Network Inspection	RANGIHOUA ROAD	739	6800	1/02/2022	27/01/2022
Unsealed 1 Month	Unsealed Network Inspection	RANGIHOUA ROAD	0	739	2/02/2022	27/01/2022
Sealed 3 Month	Sealed Network Inspection	RANGITANE LOOP ROAD	0	1266	8/02/2022	8/02/2022
Sealed 1 Month	Sealed Network Inspection	RANKIN STREET	0	538	1/02/2022	27/01/2022
Sealed 3 Month	Sealed Network Inspection	RANUI AVENUE	390	504	25/02/2022	
Sealed 1 Month	Sealed Network Inspection	RANUI AVENUE	0	390	28/02/2022	
Unsealed 2 Month	Unsealed Network Inspection	RATA TIPENE ROAD	0	1037	11/02/2022	4/02/2022
Sealed 1 Month	Sealed Network Inspection	RAWENE ROAD	0	4489	14/02/2022	11/02/2022
Sealed 1 Month	Sealed Network Inspection	RAWHITI ROAD (NORTH)	1104	3882	9/02/2022	3/02/2022
Sealed 1 Month	Sealed Network Inspection	RAWHITI ROAD (NORTH)	5182	8189	9/02/2022	3/02/2022

Cyc Act Freq	Cyc Act Type	Road	Start	End	Due Date	Completed Date
Unsealed 1 Month	Unsealed Network Inspection	RAWHITI ROAD (NORTH)	0	1104	4/02/2022	1/02/2022
Unsealed 1 Month	Unsealed Network Inspection	RAWHITI ROAD (NORTH)	3882	5182	4/02/2022	1/02/2022
Sealed 1 Month	Sealed Network Inspection	RAWHITI ROAD (SOUTH)	0	9010	9/02/2022	3/02/2022
Sealed 1 Month	Sealed Network Inspection	RECREATION ROAD	0	597	14/02/2022	11/02/2022
Unsealed 1 Month	Unsealed Network Inspection	REDCLIFFS ROAD	3295	4089	14/02/2022	10/02/2022
Unsealed 1 Month	Unsealed Network Inspection	REMUERA SETTLEMENT ROAD	0	7186	3/02/2022	28/01/2022
Unsealed 1 Month	Unsealed Network Inspection	RENWICK ROAD	0	2564	24/02/2022	
Sealed 3 Month	Sealed Network Inspection	RETREAT ROAD	0	332	18/02/2022	
Unsealed 2 Month	Unsealed Network Inspection	RETREAT ROAD	332	547	3/02/2022	28/01/2022
Sealed 1 Month	Sealed Network Inspection	RIDDELL ROAD	0	732	14/02/2022	
Unsealed 1 Month	Unsealed Network Inspection	RIGDEN ROAD	0	1482	1/02/2022	25/01/2022
Unsealed 1 Month	Unsealed Network Inspection	RIGDEN ROAD	0	1482	28/02/2022	
Sealed 3 Month	Sealed Network Inspection	RIVERBANK DRIVE - THROUGH ROAD	0	360	11/02/2022	10/02/2022
Sealed 1 Month	Sealed Network Inspection	RIVERVIEW ROAD	0	909	28/02/2022	
Sealed 1 Month	Sealed Network Inspection	ROBERTSON STREET	0	122	14/02/2022	
Unsealed 2 Month	Unsealed Network Inspection	ROGER ROAD	0	1417	18/02/2022	
Sealed 3 Month	Sealed Network Inspection	ROUTLEY AVENUE	0	382	21/02/2022	
Sealed 1 Month	Sealed Network Inspection	RUAPEKAPEKA ROAD	16886	17519	23/02/2022	
Unsealed 1 Month	Unsealed Network Inspection	RUAPEKAPEKA ROAD	0	16886	1/02/2022	26/01/2022
Unsealed 1 Month	Unsealed Network Inspection	RUSK ROAD	0	3696	3/02/2022	28/01/2022
Unsealed 2 Month	Unsealed Network Inspection	RUSSEK ROAD	0	1460	17/02/2022	11/02/2022
Sealed 3 Month	Sealed Network Inspection	RUSSELL ESPLANADE	0	229	8/02/2022	4/02/2022
Sealed 3 Month	Sealed Network Inspection	RUSSELL HEIGHTS	0	204	28/02/2022	
Sealed 1 Month	Sealed Network Inspection	RUSSELL-WHAKAPARA ROAD	0	12448	9/02/2022	3/02/2022

Cyc Act Freq	Cyc Act Type	Road	Start	End	Due Date	Completed Date
Unsealed 1 Month	Unsealed Network Inspection	RUSSELL-WHAKAPARA ROAD	12448	19957	10/02/2022	4/02/2022
Unsealed 1 Month	Unsealed Network Inspection	SAIES ROAD	0	616	11/02/2022	9/02/2022
Sealed 3 Month	Sealed Network Inspection	SAMMAREE PLACE	0	192	8/02/2022	1/02/2022
Sealed 1 Month	Sealed Network Inspection	SANDYS ROAD	0	2606	11/02/2022	10/02/2022
Unsealed 2 Month	Unsealed Network Inspection	SAWARD ROAD	0	1058	17/02/2022	10/02/2022
Sealed 1 Month	Sealed Network Inspection	SCHOOL ROAD (PAIHIA)	0	1248	3/02/2022	1/02/2022
Unsealed 2 Month	Unsealed Network Inspection	SCOTTS ROAD	0	1143	17/02/2022	10/02/2022
Sealed 3 Month	Sealed Network Inspection	SELWYN PLACE (KERIKERI)	0	135	18/02/2022	
Sealed 1 Month	Sealed Network Inspection	SELWYN ROAD (PAIHIA)	0	239	16/02/2022	
Sealed 3 Month	Sealed Network Inspection	SELWYN ROAD SRVC LANE	0	55	9/02/2022	2/02/2022
Sealed 3 Month	Sealed Network Inspection	SERVICE LANE #2 (KAIKOHE)	0	69	4/02/2022	27/01/2022
Unsealed 1 Month	Unsealed Network Inspection	SETTLEMENT ROAD	0	1854	1/02/2022	26/01/2022
Sealed 1 Month	Sealed Network Inspection	SHEPHERD ROAD (KERIKERI)	0	921	2/02/2022	1/02/2022
Sealed 3 Month	Sealed Network Inspection	SHIRLEY ROAD	0	90	2/02/2022	9/02/2022
Unsealed 1 Month	Unsealed Network Inspection	SHIRLEY ROAD	90	371	11/02/2022	8/02/2022
Sealed 1 Month	Sealed Network Inspection	SHOWGROUND ROAD	0	3197	1/02/2022	2/02/2022
Unsealed 1 Month	Unsealed Network Inspection	SIGNAL ROAD	0	1150	16/02/2022	10/02/2022
Unsealed 1 Month	Unsealed Network Inspection	SIGNAL STATION ROAD	1040	1316	11/02/2022	8/02/2022
Sealed 3 Month	Sealed Network Inspection	SILKWOOD LANE	0	640	18/02/2022	
Sealed 3 Month	Sealed Network Inspection	SKIPPERS LANE	0	290	1/02/2022	8/02/2022
Sealed 1 Month	Sealed Network Inspection	SKUDDERS BEACH ROAD	0	1433	15/02/2022	
Unsealed 2 Month	Unsealed Network Inspection	SMEATH ROAD (HUPARA)	0	309	2/02/2022	26/01/2022
Unsealed 1 Month	Unsealed Network Inspection	SMITH CAMP ROAD	0	316	15/02/2022	11/02/2022
Unsealed 1 Month	Unsealed Network Inspection	SMITH GRAY ROAD	0	119	4/02/2022	1/02/2022

Cyc Act Freq	Cyc Act Type	Road	Start	End	Due Date	Completed Date
Unsealed 1 Month	Unsealed Network Inspection	SMITH ROAD (MOEREWA)	0	2074	16/02/2022	
Sealed 3 Month	Sealed Network Inspection	SNOWDON AVENUE	0	309	25/02/2022	
Unsealed 1 Month	Unsealed Network Inspection	SOMERVILLE ROAD	0	4701	21/02/2022	
Drainage 12 Month	Drainage Inspection	SQUIRES LANE	0	588	23/02/2022	
Unsealed 1 Month	Unsealed Network Inspection	SQUIRES LANE	0	588	11/02/2022	8/02/2022
Sealed 3 Month	Sealed Network Inspection	ST ANDREWS PLACE	0	79	18/02/2022	
Sealed 1 Month	Sealed Network Inspection	STANNERS ROAD	0	2072	10/02/2022	
Unsealed 1 Month	Unsealed Network Inspection	STANNERS ROAD	2072	4367	21/02/2022	
Sealed 1 Month	Sealed Network Inspection	STATION ROAD (KAIKOHE)	0	674	14/02/2022	
Sealed 3 Month	Sealed Network Inspection	STATION ROAD (KAWAKAWA)	0	104	4/02/2022	4/02/2022
Unsealed 2 Month	Unsealed Network Inspection	STEWARDS ROAD	0	1205	3/02/2022	17/01/2022
Unsealed 2 Month	Unsealed Network Inspection	STURGE ROAD	0	974	15/02/2022	10/02/2022
Unsealed 2 Month	Unsealed Network Inspection	SULLIVANS ROAD	258	340	3/02/2022	28/01/2022
Drainage 12 Month	Drainage Inspection	TAHEKE ROAD	0	15438	3/02/2022	13/12/2021
Unsealed 1 Month	Unsealed Network Inspection	TAHEKE ROAD	6330	15438	16/02/2022	
Sealed 1 Month	Sealed Network Inspection	TAKOU BAY ROAD	0	1308	18/02/2022	
Unsealed 1 Month	Unsealed Network Inspection	TAKOU BAY ROAD	1308	6624	16/02/2022	
Unsealed 2 Month	Unsealed Network Inspection	TARAKIHI ROAD	0	450	14/02/2022	9/02/2022
Sealed 3 Month	Sealed Network Inspection	TAREHA PLACE	0	267	18/02/2022	
Sealed 3 Month	Sealed Network Inspection	TAUMATA CLOSE	0	128	9/02/2022	2/02/2022
Sealed 1 Month	Sealed Network Inspection	TAUMATAMAKUKU ROAD	0	353	2/02/2022	1/02/2022
Sealed 1 Month	Sealed Network Inspection	TAUMATAMAKUKU SETTLEMENT ROAD	0	445	1/02/2022	1/02/2022
Unsealed 2 Month	Unsealed Network Inspection	TAWATA ROAD	0	328	1/02/2022	17/01/2022
Sealed 1 Month	Sealed Network Inspection	TE HAUMI DRIVE	0	1072	8/02/2022	3/02/2022

Cyc Act Freq	Cyc Act Type	Road	Start	End	Due Date	Completed Date
Unsealed 1 Month	Unsealed Network Inspection	TE IRENGA WEST ROAD	0	776	3/02/2022	28/01/2022
Sealed 1 Month	Sealed Network Inspection	TE KARUWHA PARADE	0	784	14/02/2022	
Sealed 3 Month	Sealed Network Inspection	TE KEMARA AVENUE	0	708	15/02/2022	
Sealed 3 Month	Sealed Network Inspection	TE ORO ROAD	0	74	2/02/2022	1/02/2022
Sealed 3 Month	Sealed Network Inspection	TE RA PLACE	0	132	21/02/2022	
Unsealed 1 Month	Unsealed Network Inspection	TE RA ROAD	0	1498	2/02/2022	27/01/2022
Sealed 1 Month	Sealed Network Inspection	TE TII ROAD	906	1280	10/02/2022	9/02/2022
Unsealed 1 Month	Unsealed Network Inspection	TE TII ROAD	0	601	11/02/2022	8/02/2022
Unsealed 2 Month	Unsealed Network Inspection	TE TII ROAD EXTENSION	26	108	10/02/2022	3/02/2022
Unsealed 1 Month	Unsealed Network Inspection	TE TIO ROAD	0	8085	9/02/2022	3/02/2022
Unsealed 1 Month	Unsealed Network Inspection	TE WAIAROHIA ROAD	0	173	11/02/2022	8/02/2022
Sealed 3 Month	Sealed Network Inspection	THE LOOKOUT	0	103	23/02/2022	
Sealed 3 Month	Sealed Network Inspection	THE RIDGE	0	195	11/02/2022	10/02/2022
Sealed 3 Month	Sealed Network Inspection	THE STRAND (NORTH)	0	234	2/02/2022	3/02/2022
Drainage 12 Month	Drainage Inspection	THORPE ROAD	300	835	24/02/2022	
Sealed 1 Month	Sealed Network Inspection	THORPE ROAD	300	835	14/02/2022	11/02/2022
Sealed 3 Month	Sealed Network Inspection	TIKORANGI ROAD	0	118	9/02/2022	8/02/2022
Unsealed 1 Month	Unsealed Network Inspection	TIPENE ROAD	0	5944	3/02/2022	28/01/2022
Unsealed 2 Month	Unsealed Network Inspection	TIROHANGA ROAD	0	2330	14/02/2022	9/02/2022
Unsealed 2 Month	Unsealed Network Inspection	TOIA ROAD	0	1938	15/02/2022	10/02/2022
Unsealed 1 Month	Unsealed Network Inspection	TOKAWHERO ROAD	0	7763	11/02/2022	8/02/2022
Drainage 12 Month	Drainage Inspection	TOPPS ACCESS ROAD	0	660	9/02/2022	
Sealed 3 Month	Sealed Network Inspection	TOTARA PLACE (KERIKERI)	0	141	23/02/2022	
Sealed 3 Month	Sealed Network Inspection	TUATAHI PLACE	0	96	18/02/2022	

Cyc Act Freq	Cyc Act Type	Road	Start	End	Due Date	Completed Date
Sealed 3 Month	Sealed Network Inspection	TUHUNA ROAD (KAIKOHE)	0	163	21/02/2022	
Sealed 3 Month	Sealed Network Inspection	TUI GROVE (PAIHIA)	0	214	9/02/2022	2/02/2022
Sealed 3 Month	Sealed Network Inspection	TUI PLACE (KERIKERI)	0	118	1/02/2022	1/02/2022
Unsealed 2 Month	Unsealed Network Inspection	UMAWERA SCHOOL ROAD	0	525	17/02/2022	
Unsealed 2 Month	Unsealed Network Inspection	URUTI ROAD	0	584	18/02/2022	
Sealed 3 Month	Sealed Network Inspection	VALENCIA LANE	1510	1900	17/02/2022	10/02/2022
Sealed 3 Month	Sealed Network Inspection	VERONICA STREET	0	77	9/02/2022	2/02/2022
Sealed 1 Month	Sealed Network Inspection	VOGEL STREET	0	110	2/02/2022	4/02/2022
Sealed 3 Month	Sealed Network Inspection	VOGEL STREET	110	227	25/02/2022	
Unsealed 1 Month	Unsealed Network Inspection	WAHAMITI LANE	0	309	16/02/2022	
Sealed 1 Month	Sealed Network Inspection	WAIARE ROAD	0	9070	4/02/2022	2/02/2022
Unsealed 1 Month	Unsealed Network Inspection	WAIARE ROAD	12581	29825	16/02/2022	
Unsealed 2 Month	Unsealed Network Inspection	WAIHOTU ROAD	0	379	14/02/2022	8/02/2022
Unsealed 2 Month	Unsealed Network Inspection	WAIKARAMU ROAD	2823	4047	8/02/2022	2/02/2022
Unsealed 1 Month	Unsealed Network Inspection	WAIKARAMU ROAD	0	2823	17/02/2022	
Sealed 1 Month	Sealed Network Inspection	WAIKARE ROAD	0	7985	11/02/2022	
Unsealed 1 Month	Unsealed Network Inspection	WAIKARE ROAD	7985	16764	15/02/2022	11/02/2022
Unsealed 1 Month	Unsealed Network Inspection	WAIKARE ROAD	17882	23437	15/02/2022	11/02/2022
Unsealed 2 Month	Unsealed Network Inspection	WAIKARE VALLEY ROAD	0	4410	1/02/2022	25/01/2022
Unsealed 2 Month	Unsealed Network Inspection	WAIKERIKERI ROAD EXTENSION	0	500	16/02/2022	10/02/2022
Unsealed 1 Month	Unsealed Network Inspection	WAIKINO ROAD	0	7413	25/02/2022	
Unsealed 1 Month	Unsealed Network Inspection	WAIKUKU ROAD	0	2555	8/02/2022	2/02/2022
Drainage 12 Month	Drainage Inspection	WAIMA SCHOOL ROAD	0	447	4/02/2022	29/11/2021
Unsealed 1 Month	Unsealed Network Inspection	WAIMA SCHOOL ROAD	0	447	16/02/2022	

Cyc Act Freq	Cyc Act Type	Road	Start	End	Due Date	Completed Date
Unsealed 1 Month	Unsealed Network Inspection	WAIMA VALLEY ROAD	0	5557	16/02/2022	
Unsealed 1 Month	Unsealed Network Inspection	WAIMAMAKU BEACH ROAD	0	4125	11/02/2022	8/02/2022
Sealed 1 Month	Sealed Network Inspection	WAIMATE NORTH ROAD	0	11032	11/02/2022	
Sealed 1 Month	Sealed Network Inspection	WAIMATENUI / MATARAUA ROAD	0	8260	14/02/2022	
Unsealed 1 Month	Unsealed Network Inspection	WAIMATENUI / MATARAUA ROAD	8260	25398	9/02/2022	3/02/2022
Sealed 3 Month	Sealed Network Inspection	WAINGARO LANE	0	399	25/02/2022	
Unsealed 2 Month	Unsealed Network Inspection	WAIOHANGA ROAD	0	1990	15/02/2022	10/02/2022
Unsealed 1 Month	Unsealed Network Inspection	WAIONE ROAD	0	1521	11/02/2022	8/02/2022
Unsealed 1 Month	Unsealed Network Inspection	WAIOTEMARAMA GORGE ROAD	0	9682	4/02/2022	1/02/2022
Unsealed 2 Month	Unsealed Network Inspection	WAIOTU ROAD	0	774	14/02/2022	9/02/2022
Sealed 1 Month	Sealed Network Inspection	WAIPAPA LOOP ROAD	0	221	15/02/2022	
Sealed 2 Week	Sealed Network Inspection	WAIPAPA ROAD	0	4223	11/02/2022	
Sealed 2 Week	Sealed Network Inspection	WAIPAPA ROAD	0	4223	25/02/2022	
Sealed 1 Month	Sealed Network Inspection	WAIPAPA WEST ROAD	0	1889	10/02/2022	9/02/2022
Sealed 3 Month	Sealed Network Inspection	WAIPUNA PLACE	0	63	22/02/2022	
Unsealed 1 Month	Unsealed Network Inspection	WAITAHEKE ROAD	0	2952	3/02/2022	28/01/2022
Unsealed 1 Month	Unsealed Network Inspection	WAKELIN ROAD	0	3968	1/02/2022	26/01/2022
Unsealed 2 Month	Unsealed Network Inspection	WALLIS ROAD	0	1218	17/02/2022	
Drainage 12 Month	Drainage Inspection	WAOKU ROAD	0	3234	4/02/2022	3/12/2021
Sealed 1 Month	Sealed Network Inspection	WARD DRIVE	0	523	17/02/2022	
Sealed 1 Month	Sealed Network Inspection	WARD DRIVE (EAST)	0	234	16/02/2022	
Sealed 1 Month	Sealed Network Inspection	WEHIRUA ROAD	0	1966	15/02/2022	
Unsealed 1 Month	Unsealed Network Inspection	WEKAWEKA ROAD	0	14940	4/02/2022	1/02/2022
Unsealed 2 Month	Unsealed Network Inspection	WELLSFORD ROAD	0	451	3/02/2022	27/01/2022

Cyc Act Freq	Cyc Act Type	Road	Start	End	Due Date	Completed Date
Sealed 3 Month	Sealed Network Inspection	WENTWORTH TERRACE	0	90	18/02/2022	
Unsealed 2 Month	Unsealed Network Inspection	WHAAKAURU VALLEY ROAD	0	1080	3/02/2022	28/01/2022
Unsealed 1 Month	Unsealed Network Inspection	WHAKATAHA ROAD	0	1690	2/02/2022	27/01/2022
Sealed 1 Month	Sealed Network Inspection	WHARAU ROAD	0	1043	10/02/2022	8/02/2022
Unsealed 1 Month	Unsealed Network Inspection	WHARAU ROAD	2133	4684	21/02/2022	
Unsealed 1 Month	Unsealed Network Inspection	WHAREKAWA ROAD	0	3360	11/02/2022	8/02/2022
Sealed 1 Month	Sealed Network Inspection	WHARF ROAD (HARURU FALLS)	0	205	15/02/2022	
Sealed 3 Month	Sealed Network Inspection	WHITEMANS ROAD	0	343	4/02/2022	1/02/2022
Unsealed 2 Month	Unsealed Network Inspection	WHIU ROAD	0	339	1/02/2022	17/01/2022
Sealed 3 Month	Sealed Network Inspection	WIHONGI STREET	0	634	21/02/2022	
Sealed 3 Month	Sealed Network Inspection	WILLIAMS AVENUE (KAIKOHE)	0	321	22/02/2022	
Sealed 1 Month	Sealed Network Inspection	WILLIAMS ROAD	0	466	16/02/2022	
Sealed 1 Month	Sealed Network Inspection	WILSON ROAD	0	259	15/02/2022	
Sealed 3 Month	Sealed Network Inspection	WINDSOR ROAD	0	420	21/02/2022	
Sealed 1 Month	Sealed Network Inspection	WIROA ROAD	0	10677	28/02/2022	
Unsealed 2 Month	Unsealed Network Inspection	WOODBINE ROAD (KAIKOHE)	0	136	17/02/2022	
Sealed 1 Month	Sealed Network Inspection	YORK STREET	0	399	15/02/2022	
Sealed 1 Month	Sealed Network Inspection	YORKE ROAD	0	644	15/02/2022	
Sealed 1 Month	Sealed Network Inspection	YORKE ROAD (EAST)	0	31	15/02/2022	

FULTON HOGAN - NORTH AREA MAINTENANCE NETWORK CONTRACT 7/18/100 MONTHLY REPORT

SUMMARY

Attached is the Fulton Hogan monthly report for January 2022.

REHABS

Project	Completed This month	Programmed Next Month
2020/21 Projects:		
West Coast Rd Flood Mitigation 2019-20		Drainage jobs to be completed.
Peria Rd Seal Extension 2020-21		GSI to commence slip repair at RP4100.
2021/22 Projects:		
Oruru Rd Rehab RP 7692-8310	All enabling works completed. Pavement overlay completed.	Stabilise and seal.
Oruru Rd Rehab RP 13450-13800	All enabling works completed. Pavement overlay completed.	Stabilise and seal.
Kohukohu Rd Rehab RP9824-11181	Design option required to complete drawings.	NTA Walkover 10/02. Commence enabling works.
Summerville Rd Rehab RP0-184	Finalise drainage design.	Price drainage works.
Brass Rd Seal Extension RP15-1725	Clearing completed, Most drainage completed.	Design due mid month, commence pavement works.
Parapara-Toatoa Rd Seal Extension RP62-920	Clearing completed.	Commence drainage. Design due mid month, commence pavement works.

MAINTENANCE SUMMARY

Unsealed Maintenance

- Grading 102.560 km
- Potholes 446 ea.
- Maintenance Metal 0 m3
- Heavy Metal Overlay 129 m3

- Envelope Mowing 4.595km

Sealed Maintenance

- Potholes 117 ea.
- Edge break 3 m
- Berm mowing 61.9 km

Drainage

- Routine Maintenance 33 ea.
- Heavy water tabling 2.320 km

NETWORK INSPECTION LENGTH COMPLETED THIS MONTH

Network Area Inspection

North Area – January 2022

Week 1	383 km
Week 2	332 km
Week 3	39 km
Week 4	133 km
TOTAL	**888 km**

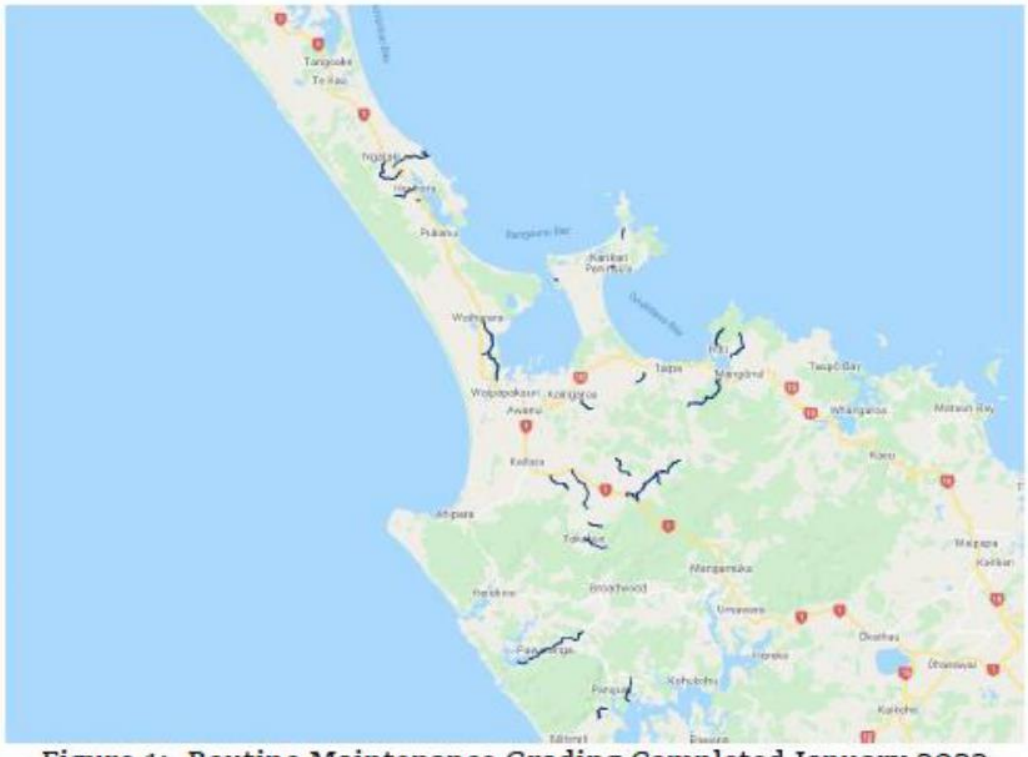


Figure 1: Routine Maintenance Grading Completed January 2022

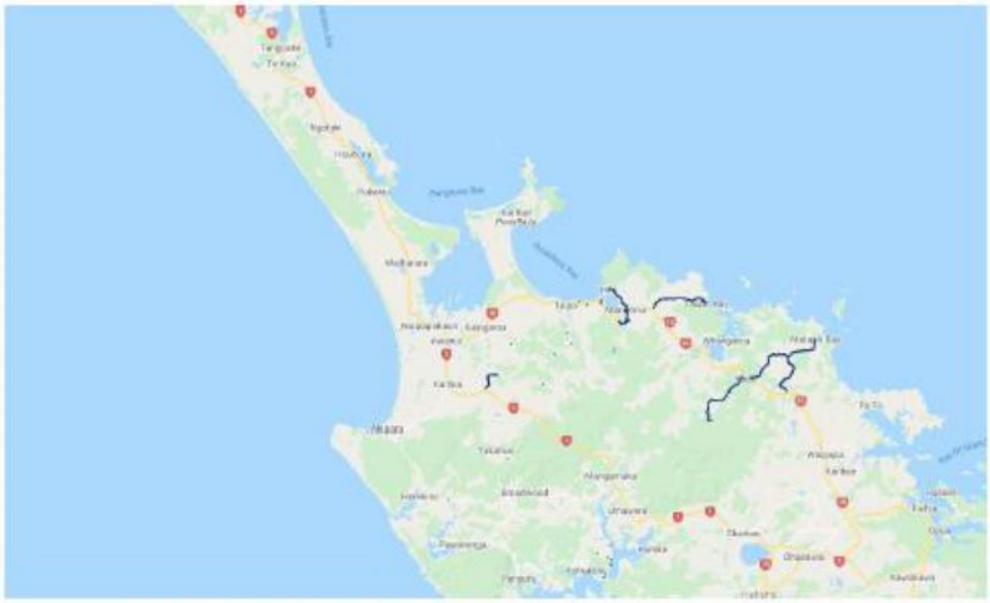


Figure 2: Routine Mowing Completed January 2022



Figure 3: Routine Potholes Completed January 2022

ROUTINE DISPATCHES COMPLETED THIS MONTH

Dispatches	Road	Asset Type	Fault	Completed
4	ABRAHAM ROAD	Pavement - Unsealed	Potholes - Unsealed (ea) R	25/01/2022
1	ALEXANDER STREET	Vegetation	Road envelope - Vege corridor (m) R	19/01/2022
10	ALLEN BELL DRIVE	Drainage(Culverts)	Grate cleaning - Grate debris (ea) R	10/01/2022
1	AWAROA ROAD	Surfacing	Potholes - Sealed (ea) R	18/01/2022
1	BACKRIVER ROAD	Pavement - Unsealed	Grading - x-fall/potholes/corrugation/rut (m) R	13/01/2022
2	BACKRIVER ROAD	Signs	Post paint - Graffiti/dirty/faded post (ea) R	26/01/2022
1	BACKRIVER ROAD	Signs	Sign straighten/reinstate - Leaning (ea) R	26/01/2022
1	BACKRIVER ROAD	Signs	Sign replace - Damaged PWs (ea) R	26/01/2022
1	BACKRIVER ROAD	Signs	Sign make safe - Accident damage (ea) R	26/01/2022
1	BACKRIVER ROAD	Signs	BEM replace - Broken/missing/faded (ea) R	26/01/2022
2	BANK STREET	Drainage(Culverts)	Grate cleaning - Grate debris (ea) R	17/01/2022
1	BANKSIA ROAD	Vegetation	Road envelope - Vege corridor (m) R	13/01/2022
2	BEACH ROAD (MANGONUI)	Vegetation	Road envelope - Vege corridor (m) R	12/01/2022
1	BECKHAM ROAD	Signs	Sign face cleaning - Graffiti/dirty (ea) R	26/01/2022
2	BECKHAM ROAD	Vegetation	Road envelope - Vege corridor (m) R	27/01/2022
1	BONNETTS ROAD	Surfacing	Potholes - Sealed (ea) R	21/01/2022
1	BOWDEN ROAD	Vegetation	Roadside mowing - Berm vege (m) R	17/01/2022
1	BOWDEN ROAD	Vegetation	Road envelope - Vege corridor (m) R	13/01/2022
3	BROADWOOD ROAD	Signs	Sign face cleaning - Graffiti/dirty (ea) R	27/01/2022
1	BROADWOOD ROAD	Signs	Sign replace - Damaged RGs (ea) R	27/01/2022
3	BROADWOOD ROAD	Surfacing	Potholes - Sealed (ea) R	19/01/2022
1	BROADWOOD ROAD	Surfacing	Potholes - Sealed (ea) R	18/01/2022
1	BURMA ROAD	Signs	Sign straighten/reinstate - Leaning (ea) R	25/01/2022
1	BURMA ROAD	Signs	Sign replace - Damaged PWs (ea) R	25/01/2022
4	CHURCH ROAD (KAITAIA)	Drainage(Culverts)	Grate cleaning - Grate debris (ea) R	17/01/2022
1	CHURCH ROAD (KAITAIA)	Pavement - Sealed	Premix - Temp pvmt failure repairs (m2) R	17/01/2022
2	CHURCH ROAD (KAITAIA)	Surfacing	Potholes - Sealed (ea) R	21/01/2022
1	CLOUGH ROAD	Pavement - Unsealed	Grading - x-fall/potholes/corrugation/rut (m) R	27/01/2022
1	COACHMANS WAY	Surface Water Channels	KC/Islands/RABs veg cntrl - WEED obstruct (m) R	14/01/2022
9	DIGGERS VALLEY ROAD	Pavement - Unsealed	Potholes - Unsealed (ea) R	24/01/2022
1	DIGGERS VALLEY ROAD	Signs	Post paint - Graffiti/dirty/faded post (ea) R	27/01/2022
1	DIGGERS VALLEY ROAD	Signs	Sign face cleaning - Graffiti/dirty (ea) R	27/01/2022
1	DIGGERS VALLEY ROAD	Vegetation	Sightline mtce - Vege obscured (m) R	14/01/2022
2	DONALDS ROAD (EAST)	Drainage(Culverts)	Grate cleaning - Grate debris (ea) R	10/01/2022
1	DUNCAN ROAD (KAINGAROA)	Vegetation	Road envelope - Vege corridor (m) R	14/01/2022
4	DUNCAN ROAD (KAINGAROA)	Vegetation	Sightline mtce - Vege obscured (m) R	14/01/2022
1	DUNN STREET	Drainage(Culverts)	Grate cleaning - Grate debris (ea) R	10/01/2022
1	EDEN TERRACE	Drainage(Culverts)	Grate cleaning - Grate debris (ea) R	17/01/2022
1	FAIRBURN ROAD	Vegetation	Road envelope - Vege corridor (m) R	26/01/2022
1	FERN FLAT ROAD	Signs	Sign straighten/reinstate - Leaning (ea) R	26/01/2022
2	FERN FLAT ROAD	Signs	Sign face cleaning - Graffiti/dirty (ea) R	26/01/2022
1	FERN FLAT ROAD	Signs	BEM replace - Broken/missing/faded (ea) R	26/01/2022
2	FRYER ROAD	Pavement - Unsealed	Grading - x-fall/potholes/corrugation/rut (m) R	18/01/2022
1	GILLIES ROAD	Pavement - Unsealed	Grading - x-fall/potholes/corrugation/rut (m) R	20/01/2022
1	GILLS ROAD (AWANUI)	Signs	Sign straighten/reinstate - Leaning (ea) R	18/01/2022

Dispatches	Road	Asset Type	Fault	Completed
1	GILLS ROAD (AWANUI)	Signs	Sign replace - Damaged RGs (ea) R	18/01/2022
1	HEATH ROAD	Pavement - Unsealed	Grading - x-fall/potholes/corrugation/rut (m) R	19/01/2022
3	HENDERSON BAY ROAD	Pavement - Unsealed	Grading - x-fall/potholes/corrugation/rut (m) R	24/01/2022
1	HIBISCUS AVENUE	Vegetation	Road envelope - Vege corridor (m) R	12/01/2022
1	HIHI BEACH ROAD	Vegetation	Road envelope - Vege corridor (m) R	12/01/2022
1	HIHI ROAD	Vegetation	Roadside mowing - Berm vege (m) R	17/01/2022
1	HILLCREST ROAD (KAITAIA)	Pavement - Unsealed	Grading - x-fall/potholes/corrugation/rut (m) R	26/01/2022
1	HONEYMOON VALLEY ROAD	Signs	Vege clearing - Sign obscured/sightline (ea) R	26/01/2022
1	HONEYMOON VALLEY ROAD	Signs	Sign straighten/reinstate - Leaning (ea) R	25/01/2022
6	HONEYMOON VALLEY ROAD	Signs	Sign face cleaning - Graffiti/dirty (ea) R	25/01/2022
1	IMMS ROAD (FAR NORTH)	Pavement - Unsealed	Grading - x-fall/potholes/corrugation/rut (m) R	26/01/2022
1	INLAND ROAD	Signs	Sign face cleaning - Graffiti/dirty (ea) R	10/01/2022
1	IWITAUA ROAD	Signs	Sign face cleaning - Graffiti/dirty (ea) R	10/01/2022
1	JACENTHO ROAD	Pavement - Unsealed	Grading - x-fall/potholes/corrugation/rut (m) R	20/01/2022
1	KAITAIA-AWAROA ROAD	Signs	Post paint - Graffiti/dirty/faded post (ea) R	27/01/2022
1	KAITAIA-AWAROA ROAD	Signs	Sign face cleaning - Graffiti/dirty (ea) R	27/01/2022
2	KAITAIA-AWAROA ROAD	Surfacing	Potholes - Sealed (ea) R	19/01/2022
1	KAITAIA-AWAROA ROAD	Vegetation	Road envelope - Vege corridor (m) R	27/01/2022
1	KAITAIA-AWAROA ROAD	Vegetation	Road envelope - Vege corridor (m) R	11/01/2022
1	KAUERE ROAD	Pavement - Unsealed	Grading - x-fall/potholes/corrugation/rut (m) R	24/01/2022
1	KIMBERLEY ROAD	Pavement - Unsealed	Grading - x-fall/potholes/corrugation/rut (m) R	24/01/2022
1	KITCHEN ROAD	Pavement - Unsealed	Grading - x-fall/potholes/corrugation/rut (m) R	19/01/2022
1	KOHE ROAD	Signs	Sign face cleaning - Graffiti/dirty (ea) R	10/01/2022
1	KOHUHU STREET	Surfacing	Potholes - Sealed (ea) R	21/01/2022
1	KOHUKOHU ROAD	Surfacing	Potholes - Sealed (ea) R	18/01/2022
1	KOHUKOHU ROAD	Vegetation	Road envelope - Vege corridor (m) R	24/01/2022
5	KOHUKOHU ROAD	Vegetation	Road envelope - Vege corridor (m) R	11/01/2022
1	KOHUKOHU ROAD	Vegetation	Sightline mtce - Vege obscured (m) R	11/01/2022
2	LAMB ROAD	Pavement - Unsealed	Grading - x-fall/potholes/corrugation/rut (m) R	26/01/2022
1	LECCINO VALLEY ROAD	Vegetation	Roadside mowing - Berm vege (m) R	17/01/2022
1	LESLIE ROAD	Vegetation	Road envelope - Vege corridor (m) R	13/01/2022
1	LESLIE ROAD	Vegetation	Sightline mtce - Vege obscured (m) R	13/01/2022
1	MABLE THORBURN ROAD	Vegetation	Sightline mtce - Vege obscured (m) R	12/01/2022
1	MANGATOETOE ROAD	Pavement - Unsealed	Grading - x-fall/potholes/corrugation/rut (m) R	20/01/2022
1	MANUKAU ROAD	Signs	Sign straighten/reinstate - Leaning (ea) R	27/01/2022
1	MARTIN ROAD (KAEO)	Vegetation	Roadside mowing - Berm vege (m) R	17/01/2022
1	MATAI BAY ROAD	Pavement - Unsealed	Grading - x-fall/potholes/corrugation/rut (m) R	20/01/2022
1	MATAURI BAY ROAD	Vegetation	Roadside mowing - Berm vege (m) R	17/01/2022
1	MAY ROAD	Pavement - Unsealed	Grading - x-fall/potholes/corrugation/rut (m) R	26/01/2022
1	MCMANUS ROAD	Pavement - Unsealed	Grading - x-fall/potholes/corrugation/rut (m) R	24/01/2022
1	MELODY LANE (KAITAIA)	Surfacing	Potholes - Sealed (ea) R	21/01/2022
1	MIDGELEY ROAD	Vegetation	Roadside mowing - Berm vege (m) R	17/01/2022
1	MISSION PLACE (KAITAIA)	Drainage(Culverts)	Grate cleaning - Grate debris (ea) R	17/01/2022
1	MOTUTI ROAD	Pavement - Unsealed	Grading - x-fall/potholes/corrugation/rut (m) R	17/01/2022
5	NESS ROAD (OTANGAROA)	Pavement - Unsealed	Potholes - Unsealed (ea) R	21/01/2022
1	NESS ROAD (OTANGAROA)	Pavement - Unsealed	Running course - Spot aggregate loss (m3) R	26/01/2022

Dispatches	Road	Asset Type	Fault	Completed
2	NOLA PLACE	Drainage(Culverts)	Grate cleaning - Grate debris (ea) R	10/01/2022
5	NORMAN SENN AVENUE	Drainage(Culverts)	Grate cleaning - Grate debris (ea) R	17/01/2022
3	OKAHU DOWNS DRIVE	Signs	Sign make safe - Accident damage (ea) R	25/01/2022
1	OKAHU ROAD (SOUTH)	Surfacing	Potholes - Sealed (ea) R	21/01/2022
1	OLD CHURCH RD SERVICE LANE	Surfacing	Potholes - Sealed (ea) R	7/01/2022
5	OMAHUTA ROAD	Pavement - Unsealed	Potholes - Unsealed (ea) R	28/01/2022
1	OMAUNU ROAD	Vegetation	Roadside mowing - Berm vege (m) R	17/01/2022
1	ORURU ROAD	Signs	Sign face cleaning - Graffiti/dirty (ea) R	26/01/2022
1	ORURU ROAD	Vegetation	Sightline mtce - Vege obscured (m) R	13/01/2022
1	OTAIPANGO ROAD	Pavement - Unsealed	Grading - x-fall/potholes/corrugation/rut (m) R	21/01/2022
1	OTURU ROAD	Pavement - Unsealed	Grading - x-fall/potholes/corrugation/rut (m) R	27/01/2022
3	OWHATA ROAD	Drainage(Culverts)	CMP replace - Broken/missing (ea) R	20/01/2022
4	PANTHER ROAD	Pavement - Unsealed	Potholes - Unsealed (ea) R	7/01/2022
2	PAPARANGI DRIVE (MITIMITI)	Pavement - Unsealed	Potholes - Unsealed (ea) R	25/01/2022
2	PAPARORE ROAD	Pavement - Unsealed	Grading - x-fall/potholes/corrugation/rut (m) R	19/01/2022
7	PAPONGA ROAD	Pavement - Unsealed	Potholes - Unsealed (ea) R	28/01/2022
1	PAPONGA ROAD	Signs	Sign face cleaning - Graffiti/dirty (ea) R	10/01/2022
1	PARANUI ROAD	Signs	Sign face cleaning - Graffiti/dirty (ea) R	10/01/2022
3	PARANUI ROAD	Vegetation	Road envelope - Vege corridor (m) R	13/01/2022
1	PARANUI ROAD	Vegetation	Sightline mtce - Vege obscured (m) R	13/01/2022
1	PARANUI-TOATOA ROAD	Vegetation	Road envelope - Vege corridor (m) R	13/01/2022
1	PARAPARA ROAD	Pavement - Unsealed	Grading - x-fall/potholes/corrugation/rut (m) R	11/01/2022
1	PARKDALE CRESCENT	Drainage(Culverts)	Grate cleaning - Grate debris (ea) R	10/01/2022
1	PAWARENGA ROAD	Shoulders	Hotmix - Edge break (up to 1m) R	19/01/2022
4	PAWARENGA ROAD	Surfacing	Potholes - Sealed (ea) R	19/01/2022
18	PERIA ROAD	Pavement - Sealed	Premix - Temp pvmt failure repairs (m2) R	21/01/2022
1	PERIA VALLEY ROAD	Pavement - Unsealed	Grading - x-fall/potholes/corrugation/rut (m) R	19/01/2022
2	PERIA VALLEY ROAD	Signs	Post paint - Graffiti/dirty/faded post (ea) R	27/01/2022
1	PERIA VALLEY ROAD	Signs	Sign face cleaning - Graffiti/dirty (ea) R	27/01/2022
1	PORTERS ACCESS ROAD	Surfacing	Potholes - Sealed (ea) R	7/01/2022
1	PUCKEY AVENUE	Vegetation	Road envelope - Vege corridor (m) R	26/01/2022
1	PUHATA ROAD	Drainage(Culverts)	CMP replace - Broken/missing (ea) R	25/01/2022
2	PUKEMIRO ROAD	Signs	Post paint - Graffiti/dirty/faded post (ea) R	27/01/2022
1	PUKEMIRO ROAD	Signs	Sign straighten/reinstate - Leaning (ea) R	27/01/2022
1	PUKEMIRO ROAD	Signs	Sign face cleaning - Graffiti/dirty (ea) R	27/01/2022
1	PUKEPOTO ROAD (KAITAIA)	Surfacing	Potholes - Sealed (ea) R	21/01/2022
3	PUKETITI DRIVE	Pavement - Unsealed	Potholes - Unsealed (ea) R	10/01/2022
4	PURIRI BLOCK ROAD	Pavement - Unsealed	Potholes - Unsealed (ea) R	7/01/2022
1	QUARRY ROAD (AWANUI)	Pavement - Unsealed	Grading - x-fall/potholes/corrugation/rut (m) R	28/01/2022
2	RAKAUTAPU ROAD	Vegetation	Road envelope - Vege corridor (m) R	24/01/2022
1	RARAWA BEACH ROAD	Pavement - Unsealed	Grading - x-fall/potholes/corrugation/rut (m) R	26/01/2022
1	REDAN ROAD	Drainage(Culverts)	Grate cleaning - Grate debris (ea) R	17/01/2022
1	RUAROA ROAD	Vegetation	Road envelope - Vege corridor (m) R	14/01/2022
1	RUNARUNA ROAD	Signs	Sign face cleaning - Graffiti/dirty (ea) R	10/01/2022
1	SANDHILLS ROAD	Surfacing	Potholes - Sealed (ea) R	21/01/2022
1	SHANON LANE	Signs	Sign replace - Damaged PWs (ea) R	18/01/2022

Dispatches	Road	Asset Type	Fault	Completed
1	SILVER EGG ROAD	Vegetation	Sightline mtce - Vege obscured (m) R	12/01/2022
1	SIMON URLICH ROAD	Shoulders	Hotmix - Edge break (up to 1m) R	7/01/2022
1	SMITH ROAD (HEREKINO)	Signs	Sign replace - Damaged street name (ea) R	27/01/2022
1	SNELGAR ROAD	Pavement - Unsealed	Grading - x-fall/potholes/corrugation/rut (m) R	28/01/2022
1	SPIRITS BAY ROAD	Pavement - Unsealed	Grading - x-fall/potholes/corrugation/rut (m) R	28/01/2022
1	STURMFEL ROAD	Pavement - Unsealed	Grading - x-fall/potholes/corrugation/rut (m) R	26/01/2022
2	SUMMERVILLE AVENUE (KAITAIA)	Drainage(Culverts)	Grate cleaning - Grate debris (ea) R	17/01/2022
1	SUMMERVILLE AVENUE (KAITAIA)	Surfacing	Potholes - Sealed (ea) R	21/01/2022
1	SWEETWATER ROAD	Signs	Sign straighten/reinstate - Leaning (ea) R	18/01/2022
1	TAEMARO ROAD	Pavement - Unsealed	Grading - x-fall/potholes/corrugation/rut (m) R	10/01/2022
1	TAKAHUE ROAD	Drainage(Culverts)	CMP replace - Broken/missing (ea) R	17/01/2022
1	TAKAHUE SADDLE ROAD (TAKAHUE)	Vegetation	Road envelope - Vege corridor (m) R	14/01/2022
1	TAUPO BAY ROAD	Surfacing	Potholes - Sealed (ea) R	7/01/2022
1	TAUPO BAY ROAD	Vegetation	Roadside mowing - Berm vege (m) R	17/01/2022
1	TAUPO BAY ROAD	Vegetation	Sightline mtce - Vege obscured (m) R	13/01/2022
1	TAURANGA BAY ROAD	Surfacing	Potholes - Sealed (ea) R	7/01/2022
1	TE HAPUA ROAD	Pavement - Unsealed	Grading - x-fall/potholes/corrugation/rut (m) R	28/01/2022
1	THOMPSON ROAD	Vegetation	Sightline mtce - Vege obscured (m) R	14/01/2022
1	TRIG ROAD	Pavement - Unsealed	Grading - x-fall/potholes/corrugation/rut (m) R	24/01/2022
1	VICTORIA VALLEY ROAD	Pavement - Unsealed	Grading - x-fall/potholes/corrugation/rut (m) R	19/01/2022
2	VICTORIA VALLEY ROAD	Signs	Post paint - Graffiti/dirty/faded post (ea) R	19/01/2022
1	VICTORIA VALLEY ROAD	Signs	Sign straighten/reinstate - Leaning (ea) R	19/01/2022
1	VICTORIA VALLEY ROAD	Signs	Sign face cleaning - Graffiti/dirty (ea) R	19/01/2022
1	WAIAUA ROAD	Pavement - Unsealed	Grading - x-fall/potholes/corrugation/rut (m) R	10/01/2022
1	WAIKOURA ROAD	Vegetation	Sightline mtce - Vege obscured (m) R	13/01/2022
2	WAINUI ROAD	Surfacing	Potholes - Sealed (ea) R	7/01/2022
20	WAIOTEHUE ROAD	Pavement - Unsealed	Potholes - Unsealed (ea) R	19/01/2022
2	WAIOTEHUE ROAD	Signs	Sign straighten/reinstate - Leaning (ea) R	27/01/2022
1	WALLACE ROAD (VIC VALLEY)	Signs	Post paint - Graffiti/dirty/faded post (ea) R	27/01/2022
2	WEST COAST ROAD (KOHUKOHU)	Pavement - Unsealed	Potholes - Unsealed (ea) R	25/01/2022
1	WEST COAST ROAD (KOHUKOHU)	Pavement - Unsealed	Grading - x-fall/potholes/corrugation/rut (m) R	11/01/2022
1	WEST COAST ROAD (KOHUKOHU)	Shoulders	Hotmix - Edge break (up to 1m) R	19/01/2022
1	WEST COAST ROAD (KOHUKOHU)	Surfacing	Potholes - Sealed (ea) R	21/01/2022
5	WEST COAST ROAD (KOHUKOHU)	Surfacing	Potholes - Sealed (ea) R	19/01/2022
2	WEST COAST ROAD (KOHUKOHU)	Surfacing	Potholes - Sealed (ea) R	18/01/2022
1	WEST COAST ROAD (KOHUKOHU)	Vegetation	Road envelope - Vege corridor (m) R	24/01/2022
1	WEST COAST ROAD (KOHUKOHU)	Vegetation	Sightline mtce - Vege obscured (m) R	11/01/2022
1	WEST COAST ROAD (LAKE NGATU)	Pavement - Sealed	Premix - Temp pvmt failure repairs (m2) R	19/01/2022
2	WEST COAST ROAD (LAKE NGATU)	Signs	Sign straighten/reinstate - Leaning (ea) R	18/01/2022
13	WHANGAPE ROAD	Drainage(Culverts)	CMP replace - Broken/missing (ea) R	20/01/2022
1	WHATUWHIWHI ROAD	Pavement - Unsealed	Grading - x-fall/potholes/corrugation/rut (m) R	20/01/2022
1	WHATUWHIWHI ROAD	Vegetation	Road envelope - Vege corridor (m) R	14/01/2022

NETWORK INSPECTIONS COMPLETED THIS MONTH

Road	Start	End	Asset ID	Cyc Act Type	Cyc Act Freq	First Date Okay	Due Date	Last Date Okay	Completed Date
ABRAHAM ROAD	0	298	45763	Unsealed Network Inspection	Unsealed 2 Month	10/01/2022	14/01/2022	20/01/2022	14/01/2022
AHIPARA ROAD	0	2557	43324	Sealed Network Inspection	Sealed 1 Month	22/12/2021	7/01/2022	12/01/2022	23/12/2021
AIRSTRIP ROAD	0	1626	42373	Unsealed Network Inspection	Unsealed 2 Month	22/12/2021	10/01/2022	14/01/2022	23/12/2021
AKEAKE CRESCENT	0	329	46614	Sealed Network Inspection	Sealed 2 Month	17/01/2022	21/01/2022	27/01/2022	18/01/2022
ALBATROSS ALLEY	0	80	43781	Sealed Network Inspection	Sealed 2 Month	21/12/2021	7/01/2022	13/01/2022	21/12/2021
ALLEN BELL DRIVE	0	1535	43078	Sealed Network Inspection	Sealed 1 Month	22/12/2021	7/01/2022	12/01/2022	22/12/2021
ARAIAWA ROAD	0	153	46146	Unsealed Network Inspection	Unsealed 2 Month	4/01/2022	10/01/2022	14/01/2022	5/01/2022
ARAROA ROAD	199	845	43181	Unsealed Network Inspection	Unsealed 2 Month	21/12/2021	7/01/2022	13/01/2022	21/12/2021
ARAROA ROAD	0	199	44186	Sealed Network Inspection	Sealed 2 Month	21/12/2021	7/01/2022	13/01/2022	21/12/2021
ARAWHATA ROAD	0	1254	45383	Unsealed Network Inspection	Unsealed 1 Month	6/01/2022	11/01/2022	14/01/2022	6/01/2022
ARCHIBALD STREET	0	218	44032	Sealed Network Inspection	Sealed 2 Month	21/12/2021	7/01/2022	13/01/2022	21/12/2021
ATWELL ROAD	0	550	42822	Unsealed Network Inspection	Unsealed 2 Month	21/12/2021	7/01/2022	13/01/2022	21/12/2021
AURERE BEACH ROAD	0	676	44636	Unsealed Network Inspection	Unsealed 1 Month	11/01/2022	14/01/2022	19/01/2022	11/01/2022
AWAROA ROAD	0	9095	44647	Sealed Network Inspection	Sealed 1 Month	11/01/2022	14/01/2022	19/01/2022	12/01/2022
BACKRIVER ROAD	0	8545	43653	Unsealed Network Inspection	Unsealed 1 Month	12/01/2022	17/01/2022	20/01/2022	12/01/2022
BANK STREET	0	339	42937	Sealed Network	Sealed 1 Month	22/12/2021	7/01/2022	12/01/2022	22/12/2021

Road	Start	End	Asset ID	Cyc Act Type	Cyc Act Freq	First Date Okay	Due Date	Last Date Okay	Completed Date
				Inspection					
BANYAN ROAD	0	537	46601	Sealed Network Inspection	Sealed 2 Month	17/01/2022	21/01/2022	27/01/2022	19/01/2022
BARRIBALL ROAD (ORURU)	0	1121	44654	Unsealed Network Inspection	Unsealed 1 Month	12/01/2022	17/01/2022	20/01/2022	12/01/2022
BAY HEIGHTS DRIVE	0	523	46451	Sealed Network Inspection	Sealed 2 Month	17/01/2022	21/01/2022	27/01/2022	17/01/2022
BEACH ROAD (KOHUKOHU)	0	385	49207	Sealed Network Inspection	Sealed 2 Month	4/01/2022	10/01/2022	14/01/2022	5/01/2022
BELL ROAD	0	2544	43995	Unsealed Network Inspection	Unsealed 1 Month	6/01/2022	11/01/2022	14/01/2022	7/01/2022
BIG FLAT ROAD	0	1346	46149	Unsealed Network Inspection	Unsealed 2 Month	4/01/2022	10/01/2022	14/01/2022	5/01/2022
BIRD ROAD	0	383	42773	Unsealed Network Inspection	Unsealed 2 Month	6/01/2022	12/01/2022	18/01/2022	7/01/2022
BLENCOWE STREET	0	141	42955	Sealed Network Inspection	Sealed 1 Month	22/12/2021	7/01/2022	12/01/2022	22/12/2021
BLUE MOUNTAIN ROAD	0	1098	46197	Unsealed Network Inspection	Unsealed 2 Month	4/01/2022	10/01/2022	14/01/2022	5/01/2022
BONNETTS ROAD	1019	3235	42980	Unsealed Network Inspection	Unsealed 1 Month	22/12/2021	7/01/2022	12/01/2022	22/12/2021
BONNETTS ROAD	0	1019	43003	Sealed Network Inspection	Sealed 1 Month	22/12/2021	7/01/2022	12/01/2022	22/12/2021
BRASS ROAD	0	4150	42661	Unsealed Network Inspection	Unsealed 1 Month	22/12/2021	7/01/2022	12/01/2022	22/12/2021
BRENT LANE	0	130	44081	Sealed Network Inspection	Sealed 2 Month	21/12/2021	7/01/2022	13/01/2022	21/12/2021
BROADWOOD ROAD	0	13833	45230	Sealed Network Inspection	Sealed 1 Month	5/01/2022	10/01/2022	13/01/2022	6/01/2022
BROOKE ROAD	0	331	46599	Sealed Network Inspection	Sealed 2 Month	17/01/2022	21/01/2022	27/01/2022	18/01/2022

Road	Start	End	Asset ID	Cyc Act Type	Cyc Act Freq	First Date Okay	Due Date	Last Date Okay	Completed Date
BROTT ROAD	0	1704	43960	Unsealed Network Inspection	Unsealed 1 Month	6/01/2022	11/01/2022	14/01/2022	7/01/2022
BUCHANAN ROAD	0	976	46515	Unsealed Network Inspection	Unsealed 2 Month	5/01/2022	11/01/2022	17/01/2022	6/01/2022
BURNAGE ROAD	0	1783	45340	Unsealed Network Inspection	Unsealed 1 Month	4/01/2022	7/01/2022	12/01/2022	5/01/2022
CAMP ROAD	0	1147	45365	Unsealed Network Inspection	Unsealed 1 Month	5/01/2022	10/01/2022	13/01/2022	5/01/2022
CARMENS ROAD	0	85	46258	Unsealed Network Inspection	Unsealed 2 Month	6/01/2022	12/01/2022	18/01/2022	6/01/2022
CARRINGTON DRIVE	0	572	46468	Sealed Network Inspection	Sealed 2 Month	17/01/2022	21/01/2022	27/01/2022	18/01/2022
CEMETERY ROAD (HOUHORA)	0	364	45294	Unsealed Network Inspection	Unsealed 1 Month	4/01/2022	7/01/2022	12/01/2022	5/01/2022
CEMETERY ROAD (KAEO)	0	458	43006	Unsealed Network Inspection	Unsealed 2 Month	23/12/2021	11/01/2022	17/01/2022	23/12/2021
CHURCH ROAD (KAITAIA)	2587	15017	43015	Unsealed Network Inspection	Unsealed 1 Month	6/01/2022	11/01/2022	14/01/2022	11/01/2022
CHURCH ROAD (KAITAIA)	642	2587	42848	Sealed Network Inspection	Sealed 1 Month	6/01/2022	11/01/2022	14/01/2022	11/01/2022
CHURCH ROAD (KAITAIA)	0	642	43154	Sealed Network Inspection	Sealed 1 Month	6/01/2022	11/01/2022	14/01/2022	11/01/2022
CHURCH STREET (KOHUKOHU)	0	166	49205	Sealed Network Inspection	Sealed 2 Month	4/01/2022	10/01/2022	14/01/2022	5/01/2022
CHURTONS ROAD	0	924	46412	Unsealed Network Inspection	Unsealed 2 Month	14/01/2022	20/01/2022	26/01/2022	14/01/2022
CLARKE ROAD	0	934	43224	Unsealed Network Inspection	Unsealed 2 Month	21/12/2021	7/01/2022	13/01/2022	21/12/2021
COLLARD STREET	0	178	43767	Sealed Network Inspection	Sealed 2 Month	23/12/2021	11/01/2022	17/01/2022	23/12/2021
COMMERCE STREET (KAITAIA)	0	1285	44147	Sealed Network Inspection	Sealed 2 Week	6/01/2022	10/01/2022	12/01/2022	11/01/2022

Road	Start	End	Asset ID	Cyc Act Type	Cyc Act Freq	First Date Okay	Due Date	Last Date Okay	Completed Date
COMMERCE STREET (KAITAIA)	0	1285	44563	Sealed Network Inspection	Sealed 2 Week	20/01/2022	24/01/2022	26/01/2022	20/01/2022
COPPERMINE ROAD	0	1022	41782	Unsealed Network Inspection	Unsealed 2 Month	21/12/2021	7/01/2022	13/01/2022	22/12/2021
COURTNEY PLACE	0	138	46606	Sealed Network Inspection	Sealed 2 Month	17/01/2022	21/01/2022	27/01/2022	18/01/2022
COX ROAD	0	1004	46144	Unsealed Network Inspection	Unsealed 2 Month	4/01/2022	10/01/2022	14/01/2022	5/01/2022
CRALLANS ROAD	0	143	46113	Unsealed Network Inspection	Unsealed 2 Month	7/01/2022	13/01/2022	19/01/2022	7/01/2022
CREAMERY ROAD	0	2954	46219	Unsealed Network Inspection	Unsealed 2 Month	4/01/2022	10/01/2022	14/01/2022	5/01/2022
DANGEN ROAD	0	5212	44655	Unsealed Network Inspection	Unsealed 1 Month	13/01/2022	18/01/2022	21/01/2022	13/01/2022
DAVIS STREET (KAITAIA)	0	184	43942	Sealed Network Inspection	Sealed 2 Month	21/12/2021	7/01/2022	13/01/2022	21/12/2021
DE SURVILLE ROAD	0	156	44590	Sealed Network Inspection	Sealed 1 Month	12/01/2022	17/01/2022	20/01/2022	12/01/2022
DICK SMITH LOOP ROAD	0	513	46187	Unsealed Network Inspection	Unsealed 2 Month	6/01/2022	12/01/2022	18/01/2022	6/01/2022
DICK URLICH ROAD	0	1753	44909	Unsealed Network Inspection	Unsealed 1 Month	11/01/2022	14/01/2022	19/01/2022	11/01/2022
DIGGERS VALLEY ROAD	0	21878	44633	Unsealed Network Inspection	Unsealed 1 Month	13/01/2022	18/01/2022	21/01/2022	13/01/2022
DIP ROAD	0	55	42994	Unsealed Network Inspection	Unsealed 1 Month	6/01/2022	11/01/2022	14/01/2022	6/01/2022
DIP ROAD	1065	1115	56862	Unsealed Network Inspection	Unsealed 1 Month	6/01/2022	11/01/2022	14/01/2022	6/01/2022
DIP ROAD	55	1065	56918	Unsealed Network Inspection	Unsealed 1 Month	6/01/2022	11/01/2022	14/01/2022	6/01/2022
DIP ROAD	1115	1700	56974	Unsealed Network Inspection	Unsealed 1 Month	6/01/2022	11/01/2022	14/01/2022	6/01/2022

Road	Start	End	Asset ID	Cyc Act Type	Cyc Act Freq	First Date Okay	Due Date	Last Date Okay	Completed Date
DOEL ROAD (WAIPAPAKAURI)	0	790	46209	Unsealed Network Inspection	Unsealed 2 Month	6/01/2022	12/01/2022	18/01/2022	6/01/2022
DOMINION ROAD	0	701	42945	Sealed Network Inspection	Sealed 1 Month	22/12/2021	7/01/2022	12/01/2022	23/12/2021
DONALD LANE	0	387	42887	Sealed Network Inspection	Sealed 1 Month	6/01/2022	11/01/2022	14/01/2022	7/01/2022
DONALDS ROAD (EAST)	0	1140	42876	Sealed Network Inspection	Sealed 1 Month	6/01/2022	11/01/2022	14/01/2022	7/01/2022
DOUBTLESS BAY DRIVE	0	751	44570	Sealed Network Inspection	Sealed 1 Month	12/01/2022	17/01/2022	20/01/2022	12/01/2022
DUKE STREET	0	580	43716	Sealed Network Inspection	Sealed 2 Month	23/12/2021	11/01/2022	17/01/2022	23/12/2021
DUNCAN ROAD (KAINGAROA)	0	1577	45437	Sealed Network Inspection	Sealed 1 Month	11/01/2022	14/01/2022	19/01/2022	11/01/2022
DUNCAN ROAD (KAINGAROA)	1577	15890	44872	Unsealed Network Inspection	Unsealed 1 Month	11/01/2022	14/01/2022	19/01/2022	11/01/2022
DUNN STREET	0	416	43972	Sealed Network Inspection	Sealed 2 Month	21/12/2021	7/01/2022	13/01/2022	21/12/2021
EAST LANE (SERVICE LANE #1)	0	110	43051	Sealed Network Inspection	Sealed 1 Month	22/12/2021	7/01/2022	12/01/2022	22/12/2021
EAST LANE (SERVICE LANE #2)	0	151	43033	Sealed Network Inspection	Sealed 1 Month	22/12/2021	7/01/2022	12/01/2022	22/12/2021
EDEN TERRACE	0	240	43884	Sealed Network Inspection	Sealed 2 Month	21/12/2021	7/01/2022	13/01/2022	21/12/2021
EMPIRE STREET	0	333	43121	Sealed Network Inspection	Sealed 1 Month	22/12/2021	7/01/2022	12/01/2022	22/12/2021
EMPIRE STREET	333	465	44126	Sealed Network Inspection	Sealed 2 Month	21/12/2021	7/01/2022	13/01/2022	21/12/2021
EVERITT ROAD	0	1072	45371	Unsealed Network Inspection	Unsealed 1 Month	4/01/2022	7/01/2022	12/01/2022	7/01/2022
FARRIMOND PLACE	0	89	43951	Sealed Network Inspection	Sealed 2 Month	21/12/2021	7/01/2022	13/01/2022	21/12/2021

Road	Start	End	Asset ID	Cyc Act Type	Cyc Act Freq	First Date Okay	Due Date	Last Date Okay	Completed Date
FERN FLAT ROAD	0	12774	44672	Unsealed Network Inspection	Unsealed 1 Month	13/01/2022	18/01/2022	21/01/2022	13/01/2022
FITZGERALD ROAD	0	238	46311	Sealed Network Inspection	Sealed 1 Month	4/01/2022	7/01/2022	12/01/2022	5/01/2022
FOLEY STREET	0	133	44024	Sealed Network Inspection	Sealed 2 Month	21/12/2021	7/01/2022	13/01/2022	21/12/2021
FORESHORE ROAD (AHIPARA)	2415	3182	43055	Sealed Network Inspection	Sealed 1 Month	22/12/2021	7/01/2022	12/01/2022	22/12/2021
FORESHORE ROAD (AHIPARA)	0	2415	43119	Sealed Network Inspection	Sealed 1 Month	22/12/2021	7/01/2022	12/01/2022	22/12/2021
FORESHORE ROAD (TAIPA)	0	300	43545	Sealed Network Inspection	Sealed 1 Month	12/01/2022	17/01/2022	20/01/2022	12/01/2022
FREAR ROAD	0	864	43132	Unsealed Network Inspection	Unsealed 2 Month	22/12/2021	10/01/2022	14/01/2022	22/12/2021
GILLIES ROAD	0	424	46444	Unsealed Network Inspection	Unsealed 2 Month	6/01/2022	12/01/2022	18/01/2022	6/01/2022
GILLS ROAD (AWANUI)	3220	9526	42990	Unsealed Network Inspection	Unsealed 1 Month	6/01/2022	11/01/2022	14/01/2022	11/01/2022
GILLS ROAD (AWANUI)	0	3220	42973	Sealed Network Inspection	Sealed 1 Month	6/01/2022	11/01/2022	14/01/2022	11/01/2022
GODINOVICH ROAD	0	745	43092	Unsealed Network Inspection	Unsealed 2 Month	23/12/2021	11/01/2022	17/01/2022	23/12/2021
GRIGG STREET	0	657	42967	Sealed Network Inspection	Sealed 1 Month	22/12/2021	7/01/2022	12/01/2022	22/12/2021
GUEST ROAD	0	275	46433	Unsealed Network Inspection	Unsealed 2 Month	6/01/2022	12/01/2022	18/01/2022	6/01/2022
HAGGER STREET	0	155	46528	Unsealed Network Inspection	Unsealed 2 Month	5/01/2022	11/01/2022	17/01/2022	7/01/2022
HARBOUR VIEW ROAD	0	457	46299	Sealed Network Inspection	Sealed 2 Month	4/01/2022	10/01/2022	14/01/2022	5/01/2022
HAUMANGA ROAD	0	3514	45151	Unsealed Network Inspection	Unsealed 1 Month	12/01/2022	17/01/2022	20/01/2022	12/01/2022

Road	Start	End	Asset ID	Cyc Act Type	Cyc Act Freq	First Date Okay	Due Date	Last Date Okay	Completed Date
HAURIRI ROAD	0	939	44011	Unsealed Network Inspection	Unsealed 1 Month	22/12/2021	7/01/2022	12/01/2022	22/12/2021
HAWKINS ROAD (KOHUKOHU)	0	1907	45184	Unsealed Network Inspection	Unsealed 1 Month	4/01/2022	7/01/2022	12/01/2022	5/01/2022
HEATH ROAD	0	4846	44657	Unsealed Network Inspection	Unsealed 1 Month	5/01/2022	10/01/2022	13/01/2022	5/01/2022
HENDERSON BAY ROAD	0	5689	45335	Unsealed Network Inspection	Unsealed 1 Month	4/01/2022	7/01/2022	12/01/2022	5/01/2022
HIKURUA ROAD	0	2497	43975	Unsealed Network Inspection	Unsealed 1 Month	22/12/2021	7/01/2022	12/01/2022	22/12/2021
HILLCREST ROAD (KAITAIA)	0	1670	43141	Unsealed Network Inspection	Unsealed 2 Month	23/12/2021	11/01/2022	17/01/2022	23/12/2021
HOHAIA ROAD	0	360	44736	Unsealed Network Inspection	Unsealed 2 Month	17/01/2022	21/01/2022	27/01/2022	17/01/2022
HOUHORA HEADS ROAD	0	2337	43577	Sealed Network Inspection	Sealed 1 Month	4/01/2022	7/01/2022	12/01/2022	5/01/2022
HOUSHAM ROAD	0	181	46397	Unsealed Network Inspection	Unsealed 2 Month	5/01/2022	11/01/2022	17/01/2022	6/01/2022
HUIA ROAD	0	815	42982	Unsealed Network Inspection	Unsealed 1 Month	6/01/2022	11/01/2022	14/01/2022	6/01/2022
HUKATERE ROAD	0	1116	46462	Sealed Network Inspection	Sealed 2 Month	4/01/2022	10/01/2022	14/01/2022	5/01/2022
HUMPHREY ROAD	0	3953	46185	Unsealed Network Inspection	Unsealed 2 Month	5/01/2022	11/01/2022	17/01/2022	6/01/2022
IMMS ROAD (FAR NORTH)	0	935	44908	Unsealed Network Inspection	Unsealed 1 Month	5/01/2022	10/01/2022	13/01/2022	5/01/2022
INLAND ROAD	0	14411	45360	Sealed Network Inspection	Sealed 1 Month	11/01/2022	14/01/2022	19/01/2022	11/01/2022
INLAND ROAD	14411	15244	45436	Sealed Network Inspection	Sealed 1 Month	11/01/2022	14/01/2022	19/01/2022	11/01/2022
IRVINE ROAD	0	169	46495	Unsealed Network Inspection	Unsealed 2 Month	5/01/2022	11/01/2022	17/01/2022	6/01/2022

Road	Start	End	Asset ID	Cyc Act Type	Cyc Act Freq	First Date Okay	Due Date	Last Date Okay	Completed Date
IWITAUA ROAD	0	15004	45213	Unsealed Network Inspection	Unsealed 1 Month	14/01/2022	19/01/2022	24/01/2022	14/01/2022
JACKSONS ROAD (OMAHUTA)	0	2242	46169	Unsealed Network Inspection	Unsealed 2 Month	7/01/2022	13/01/2022	19/01/2022	7/01/2022
JAMIESON ROAD (KAITAIA)	0	337	43876	Sealed Network Inspection	Sealed 2 Month	21/12/2021	7/01/2022	13/01/2022	21/12/2021
JUNIPER LANE	0	103	46235	Sealed Network Inspection	Sealed 2 Month	4/01/2022	10/01/2022	14/01/2022	5/01/2022
KAIKATIA ROAD	0	485	46300	Unsealed Network Inspection	Unsealed 2 Month	4/01/2022	10/01/2022	14/01/2022	5/01/2022
KAIMAUMAU ROAD	0	8759	45396	Sealed Network Inspection	Sealed 1 Month	5/01/2022	10/01/2022	13/01/2022	7/01/2022
KAIMAUMAU ROAD	8759	11336	46527	Unsealed Network Inspection	Unsealed 2 Month	5/01/2022	11/01/2022	17/01/2022	7/01/2022
KAITAIA-AWAROA ROAD	0	1182	42966	Sealed Network Inspection	Sealed 1 Month	22/12/2021	7/01/2022	12/01/2022	22/12/2021
KAITAIA-AWAROA ROAD	1182	17777	42995	Sealed Network Inspection	Sealed 1 Month	22/12/2021	7/01/2022	12/01/2022	22/12/2021
KAITAIA-AWAROA ROAD	17777	31038	45458	Sealed Network Inspection	Sealed 1 Month	13/01/2022	18/01/2022	21/01/2022	13/01/2022
KAKA STREET (AHIPARA)	0	358	43796	Sealed Network Inspection	Sealed 2 Month	21/12/2021	7/01/2022	13/01/2022	6/01/2022
KAKAPO STREET	0	875	43772	Sealed Network Inspection	Sealed 2 Month	21/12/2021	7/01/2022	13/01/2022	21/12/2021
KARAWAKA STREET	0	116	43806	Sealed Network Inspection	Sealed 2 Month	21/12/2021	7/01/2022	13/01/2022	21/12/2021
KATAVICH ROAD	0	200	45232	Sealed Network Inspection	Sealed 1 Month	4/01/2022	7/01/2022	12/01/2022	5/01/2022
KATAVICH ROAD	200	1959	46145	Unsealed Network Inspection	Unsealed 2 Month	4/01/2022	10/01/2022	14/01/2022	5/01/2022
KAUAEPEPE ROAD	0	2244	45359	Unsealed Network Inspection	Unsealed 1 Month	5/01/2022	10/01/2022	13/01/2022	5/01/2022

Road	Start	End	Asset ID	Cyc Act Type	Cyc Act Freq	First Date Okay	Due Date	Last Date Okay	Completed Date
KAUERE ROAD	0	380	46337	Unsealed Network Inspection	Unsealed 2 Month	4/01/2022	10/01/2022	14/01/2022	5/01/2022
KENT STREET (WHANGAROA)	283	398	42799	Unsealed Network Inspection	Unsealed 2 Month	21/12/2021	7/01/2022	13/01/2022	21/12/2021
KENT STREET (WHANGAROA)	0	283	44083	Sealed Network Inspection	Sealed 2 Month	21/12/2021	7/01/2022	13/01/2022	21/12/2021
KIMBERLEY ROAD	0	6197	44526	Unsealed Network Inspection	Unsealed 1 Month	5/01/2022	10/01/2022	13/01/2022	5/01/2022
KIRKPATRICK ROAD	0	117	49224	Sealed Network Inspection	Sealed 2 Month	4/01/2022	10/01/2022	14/01/2022	5/01/2022
KITCHENER STREET	0	328	44037	Sealed Network Inspection	Sealed 2 Month	21/12/2021	7/01/2022	13/01/2022	21/12/2021
KOHE ROAD	0	4714	45009	Unsealed Network Inspection	Unsealed 2 Month	6/01/2022	12/01/2022	18/01/2022	6/01/2022
KOHUHU STREET	0	264	43895	Sealed Network Inspection	Sealed 2 Month	21/12/2021	7/01/2022	13/01/2022	21/12/2021
KOHUKOHU ROAD	0	17624	46285	Sealed Network Inspection	Sealed 1 Month	5/01/2022	10/01/2022	13/01/2022	6/01/2022
KOKOPU STREET	0	336	43793	Sealed Network Inspection	Sealed 2 Month	21/12/2021	7/01/2022	13/01/2022	21/12/2021
KORIMAKO LANE	0	458	43194	Unsealed Network Inspection	Unsealed 2 Month	21/12/2021	7/01/2022	13/01/2022	21/12/2021
KORORA STREET	0	453	43778	Sealed Network Inspection	Sealed 2 Month	21/12/2021	7/01/2022	13/01/2022	21/12/2021
KOTARE STREET (AHIPARA)	0	240	43809	Sealed Network Inspection	Sealed 2 Month	21/12/2021	7/01/2022	13/01/2022	21/12/2021
KOWHITIKARU ROAD	0	2401	45382	Unsealed Network Inspection	Unsealed 1 Month	12/01/2022	17/01/2022	20/01/2022	12/01/2022
KUMI ROAD	0	3964	42457	Sealed Network Inspection	Sealed 1 Month	6/01/2022	11/01/2022	14/01/2022	6/01/2022
KUNICICH ROAD	0	1565	45403	Unsealed Network Inspection	Unsealed 1 Month	6/01/2022	11/01/2022	14/01/2022	6/01/2022

Road	Start	End	Asset ID	Cyc Act Type	Cyc Act Freq	First Date Okay	Due Date	Last Date Okay	Completed Date
LAKE NGATU ROAD	0	100	45292	Unsealed Network Inspection	Unsealed 1 Month	6/01/2022	11/01/2022	14/01/2022	7/01/2022
LAKE OHIA BYPASS ROAD	0	977	42722	Unsealed Network Inspection	Unsealed 2 Month	5/01/2022	11/01/2022	17/01/2022	6/01/2022
LAKE OHIA ROAD	0	2003	44686	Unsealed Network Inspection	Unsealed 2 Month	5/01/2022	11/01/2022	17/01/2022	6/01/2022
LAKE ROAD (KAIMAUMAU)	0	245	46496	Unsealed Network Inspection	Unsealed 2 Month	5/01/2022	11/01/2022	17/01/2022	7/01/2022
LAKE ROAD (KAITAIA)	0	513	42972	Sealed Network Inspection	Sealed 1 Month	22/12/2021	7/01/2022	12/01/2022	22/12/2021
LAMB ROAD	557	2137	45351	Unsealed Network Inspection	Unsealed 1 Month	4/01/2022	7/01/2022	12/01/2022	5/01/2022
LAMB ROAD	0	557	46278	Sealed Network Inspection	Sealed 2 Month	4/01/2022	10/01/2022	14/01/2022	5/01/2022
LINDSEY WAY	0	167	46608	Sealed Network Inspection	Sealed 2 Month	17/01/2022	21/01/2022	27/01/2022	19/01/2022
LONG STREET (AWANUI)	0	94	44018	Sealed Network Inspection	Sealed 2 Month	23/12/2021	11/01/2022	17/01/2022	23/12/2021
MAHINEPUA ROAD	0	970	43853	Unsealed Network Inspection	Unsealed 1 Month	22/12/2021	7/01/2022	12/01/2022	22/12/2021
MAKENE ROAD	0	1670	46251	Unsealed Network Inspection	Unsealed 2 Month	7/01/2022	13/01/2022	19/01/2022	7/01/2022
MAMARI ROAD	0	231	46281	Unsealed Network Inspection	Unsealed 2 Month	6/01/2022	12/01/2022	18/01/2022	6/01/2022
MANGAMANIHI ROAD	0	1033	41774	Unsealed Network Inspection	Unsealed 2 Month	23/12/2021	11/01/2022	17/01/2022	23/12/2021
MANGAMUKA CHURCH ROAD	0	460	46112	Unsealed Network Inspection	Unsealed 2 Month	7/01/2022	13/01/2022	19/01/2022	7/01/2022
MANGAMUKA ROAD	0	10304	46316	Sealed Network Inspection	Sealed 1 Month	4/01/2022	7/01/2022	12/01/2022	5/01/2022
MANGAMUKA SCHOOL ROAD	0	380	45235	Unsealed Network Inspection	Unsealed 1 Month	4/01/2022	7/01/2022	12/01/2022	5/01/2022

Road	Start	End	Asset ID	Cyc Act Type	Cyc Act Freq	First Date Okay	Due Date	Last Date Okay	Completed Date
MANGATAIPA ROAD	0	3987	44665	Unsealed Network Inspection	Unsealed 1 Month	4/01/2022	7/01/2022	12/01/2022	5/01/2022
MANGATETE HEIGHTS	0	1274	46388	Unsealed Network Inspection	Unsealed 2 Month	6/01/2022	12/01/2022	18/01/2022	6/01/2022
MANGATETE ROAD	0	830	45440	Unsealed Network Inspection	Unsealed 1 Month	11/01/2022	14/01/2022	19/01/2022	11/01/2022
MANING STREET	0	149	49231	Sealed Network Inspection	Sealed 2 Month	4/01/2022	10/01/2022	14/01/2022	5/01/2022
MANSBRIDGE ROAD	0	1505	46245	Unsealed Network Inspection	Unsealed 2 Month	6/01/2022	12/01/2022	18/01/2022	6/01/2022
MARRINER STREET	0	140	49232	Sealed Network Inspection	Sealed 2 Month	4/01/2022	10/01/2022	14/01/2022	5/01/2022
MARTIN ROAD (KAEO)	0	2420	44125	Sealed Network Inspection	Sealed 2 Month	23/12/2021	11/01/2022	17/01/2022	23/12/2021
MARTIN ROAD (KAEO)	2420	9361	42996	Unsealed Network Inspection	Unsealed 1 Month	6/01/2022	11/01/2022	14/01/2022	6/01/2022
MARY ANN PLACE	0	88	43867	Sealed Network Inspection	Sealed 2 Month	21/12/2021	7/01/2022	13/01/2022	21/12/2021
MASTERS ACCESS ROAD	0	1897	42837	Unsealed Network Inspection	Unsealed 1 Month	22/12/2021	7/01/2022	12/01/2022	22/12/2021
MASTERS STREET	0	76	43892	Sealed Network Inspection	Sealed 2 Month	21/12/2021	7/01/2022	13/01/2022	21/12/2021
MATA ROAD	0	4450	46403	Unsealed Network Inspection	Unsealed 2 Month	7/01/2022	13/01/2022	19/01/2022	7/01/2022
MATAI BAY ROAD	0	3903	45417	Sealed Network Inspection	Sealed 1 Month	12/01/2022	17/01/2022	20/01/2022	12/01/2022
MATAI BAY ROAD	3903	5280	45305	Unsealed Network Inspection	Unsealed 1 Month	12/01/2022	17/01/2022	20/01/2022	12/01/2022
MATAI STREET	0	63	46526	Sealed Network Inspection	Sealed 2 Month	5/01/2022	11/01/2022	17/01/2022	7/01/2022
MATANGIRAU SCHOOL ROAD	0	1136	41771	Unsealed Network Inspection	Unsealed 2 Month	21/12/2021	7/01/2022	13/01/2022	21/12/2021

Road	Start	End	Asset ID	Cyc Act Type	Cyc Act Freq	First Date Okay	Due Date	Last Date Okay	Completed Date
MATARAU ROAD	0	59	43086	Unsealed Network Inspection	Unsealed 2 Month	23/12/2021	11/01/2022	17/01/2022	23/12/2021
MATARIKI PLACE	0	418	46450	Sealed Network Inspection	Sealed 2 Month	17/01/2022	21/01/2022	27/01/2022	17/01/2022
MATAURI BAY ROAD	0	14021	44432	Sealed Network Inspection	Sealed 1 Month	22/12/2021	7/01/2022	12/01/2022	22/12/2021
MATAURI BEACH ROAD	0	2192	44223	Sealed Network Inspection	Sealed 1 Month	22/12/2021	7/01/2022	12/01/2022	22/12/2021
MATAURI BEACH ROAD (MATAURI X)	0	343	44209	Sealed Network Inspection	Sealed 1 Month	22/12/2021	7/01/2022	12/01/2022	22/12/2021
MATAURI BEACH ROAD (MATAURI X)	343	1186	42157	Sealed Network Inspection	Sealed 2 Month	21/12/2021	7/01/2022	13/01/2022	22/12/2021
MATAURI LINK ROAD	0	1094	43612	Unsealed Network Inspection	Unsealed 1 Month	22/12/2021	7/01/2022	12/01/2022	22/12/2021
MATAWERA ROAD	0	6363	45252	Unsealed Network Inspection	Unsealed 2 Month	14/01/2022	20/01/2022	26/01/2022	14/01/2022
MATAWHEROHIA ROAD	0	7791	41779	Unsealed Network Inspection	Unsealed 2 Month	23/12/2021	11/01/2022	17/01/2022	23/12/2021
MATICH ROAD	0	1663	45404	Unsealed Network Inspection	Unsealed 1 Month	6/01/2022	11/01/2022	14/01/2022	6/01/2022
MATILDA PLACE	0	179	43898	Sealed Network Inspection	Sealed 2 Month	21/12/2021	7/01/2022	13/01/2022	21/12/2021
MAY ROAD	0	156	46136	Unsealed Network Inspection	Unsealed 2 Month	4/01/2022	10/01/2022	14/01/2022	5/01/2022
MCGEE ROAD	0	553	42080	Unsealed Network Inspection	Unsealed 2 Month	23/12/2021	11/01/2022	17/01/2022	23/12/2021
MCKENZIE ROAD (WHANGAROA)	0	70	43956	Sealed Network Inspection	Sealed 2 Month	21/12/2021	7/01/2022	13/01/2022	21/12/2021
MCMANUS ROAD	0	920	46110	Unsealed Network Inspection	Unsealed 2 Month	4/01/2022	10/01/2022	14/01/2022	5/01/2022
MELBA STREET	0	173	42942	Sealed Network Inspection	Sealed 1 Month	22/12/2021	7/01/2022	12/01/2022	23/12/2021

Road	Start	End	Asset ID	Cyc Act Type	Cyc Act Freq	First Date Okay	Due Date	Last Date Okay	Completed Date
MELBA STREET	173	256	44144	Sealed Network Inspection	Sealed 2 Month	21/12/2021	7/01/2022	13/01/2022	21/12/2021
MELODY LANE (KAITAIA)	0	189	43940	Sealed Network Inspection	Sealed 2 Month	21/12/2021	7/01/2022	13/01/2022	21/12/2021
MIHIRAU ROAD	0	784	46417	Unsealed Network Inspection	Unsealed 2 Month	6/01/2022	12/01/2022	18/01/2022	6/01/2022
MILL ROAD (KAINGAROA)	0	100	46570	Unsealed Network Inspection	Unsealed 2 Month	6/01/2022	12/01/2022	18/01/2022	6/01/2022
MIRO PLACE	0	159	43962	Sealed Network Inspection	Sealed 2 Month	21/12/2021	7/01/2022	13/01/2022	21/12/2021
MIRO PLACE EXTENSION	0	66	44054	Sealed Network Inspection	Sealed 2 Month	21/12/2021	7/01/2022	13/01/2022	21/12/2021
MISSION PLACE (KAITAIA)	0	133	44051	Sealed Network Inspection	Sealed 2 Month	22/12/2021	10/01/2022	14/01/2022	22/12/2021
MOA STREET	0	143	43820	Sealed Network Inspection	Sealed 2 Month	21/12/2021	7/01/2022	13/01/2022	21/12/2021
MOTUKARAKA POINT ROAD	0	1997	46207	Unsealed Network Inspection	Unsealed 2 Month	4/01/2022	10/01/2022	14/01/2022	5/01/2022
MOTUTARA DRIVE	0	700	46440	Sealed Network Inspection	Sealed 2 Month	6/01/2022	12/01/2022	18/01/2022	11/01/2022
MOTUTI ROAD	0	4236	46410	Unsealed Network Inspection	Unsealed 2 Month	6/01/2022	12/01/2022	18/01/2022	6/01/2022
NESS ROAD (OTANGAROA)	0	1790	43103	Unsealed Network Inspection	Unsealed 2 Month	22/12/2021	10/01/2022	14/01/2022	22/12/2021
NGA KAROA ROAD	0	692	42919	Unsealed Network Inspection	Unsealed 2 Month	21/12/2021	7/01/2022	13/01/2022	21/12/2021
NGAKAPUA ROAD	0	412	46176	Unsealed Network Inspection	Unsealed 2 Month	5/01/2022	11/01/2022	17/01/2022	5/01/2022
NGATAKI ROAD	0	3927	45388	Unsealed Network Inspection	Unsealed 1 Month	5/01/2022	10/01/2022	13/01/2022	5/01/2022
NGATIMANAWA ROAD	0	100	46507	Unsealed Network Inspection	Unsealed 2 Month	6/01/2022	12/01/2022	18/01/2022	7/01/2022

Road	Start	End	Asset ID	Cyc Act Type	Cyc Act Freq	First Date Okay	Due Date	Last Date Okay	Completed Date
NOLA PLACE	0	81	43980	Sealed Network Inspection	Sealed 2 Month	21/12/2021	7/01/2022	13/01/2022	21/12/2021
NORTH PARK DRIVE	0	460	43814	Sealed Network Inspection	Sealed 2 Month	23/12/2021	11/01/2022	17/01/2022	23/12/2021
NORTH ROAD (KAITAIA)	0	586	44155	Sealed Network Inspection	Sealed 2 Week	23/12/2021	7/01/2022	11/01/2022	23/12/2021
NORTH ROAD (KAITAIA)	0	586	44579	Sealed Network Inspection	Sealed 2 Week	19/01/2022	21/01/2022	25/01/2022	20/01/2022
NORTH WAY	0	150	43929	Sealed Network Inspection	Sealed 2 Month	22/12/2021	10/01/2022	14/01/2022	22/12/2021
NORTHWOOD AVENUE	0	233	46459	Sealed Network Inspection	Sealed 2 Month	4/01/2022	10/01/2022	14/01/2022	5/01/2022
OHAKIRI WAY	0	270	42832	Unsealed Network Inspection	Unsealed 2 Month	21/12/2021	7/01/2022	13/01/2022	21/12/2021
OINU ROAD	0	1234	43169	Unsealed Network Inspection	Unsealed 2 Month	23/12/2021	11/01/2022	17/01/2022	23/12/2021
OLD BEACH ROAD	0	165	49045	Sealed Network Inspection	Sealed 2 Month	4/01/2022	10/01/2022	14/01/2022	5/01/2022
OLD CHURCH RD SERVICE LANE	0	39	44124	Sealed Network Inspection	Sealed 2 Month	21/12/2021	7/01/2022	13/01/2022	21/12/2021
OLD CHURCH RD SERVICE LANE	39	95	44925	Unsealed Network Inspection	Unsealed 2 Month	21/12/2021	7/01/2022	13/01/2022	21/12/2021
OLD CHURCH ROAD (WHANGAROA)	0	105	44055	Sealed Network Inspection	Sealed 2 Month	21/12/2021	7/01/2022	13/01/2022	21/12/2021
OLD HOSPITAL ROAD	0	431	44121	Sealed Network Inspection	Sealed 2 Month	21/12/2021	7/01/2022	13/01/2022	21/12/2021
OLD HOSPITAL ROAD	431	860	42902	Unsealed Network Inspection	Unsealed 2 Month	21/12/2021	7/01/2022	13/01/2022	21/12/2021
OMAHUTA FOREST ROAD	0	2693	46077	Unsealed Network Inspection	Unsealed 2 Month	7/01/2022	13/01/2022	19/01/2022	7/01/2022
OMAHUTA ROAD	0	5270	45267	Unsealed Network Inspection	Unsealed 1 Month	4/01/2022	7/01/2022	12/01/2022	5/01/2022

Road	Start	End	Asset ID	Cyc Act Type	Cyc Act Freq	First Date Okay	Due Date	Last Date Okay	Completed Date
OMAUNU ROAD	2952	13064	42601	Unsealed Network Inspection	Unsealed 1 Month	22/12/2021	7/01/2022	12/01/2022	22/12/2021
OMAUNU ROAD	0	2952	42611	Sealed Network Inspection	Sealed 1 Month	22/12/2021	7/01/2022	12/01/2022	22/12/2021
ORCHARD PLACE (KAITAIA)	0	100	43970	Sealed Network Inspection	Sealed 2 Month	21/12/2021	7/01/2022	13/01/2022	21/12/2021
ORURU ROAD	0	264	44481	Sealed Network Inspection	Sealed 1 Month	13/01/2022	18/01/2022	21/01/2022	13/01/2022
ORURU ROAD	264	14554	44620	Sealed Network Inspection	Sealed 1 Month	13/01/2022	18/01/2022	21/01/2022	13/01/2022
OTAIPANGO ROAD	0	984	45225	Unsealed Network Inspection	Unsealed 1 Month	4/01/2022	7/01/2022	12/01/2022	5/01/2022
OTANGAROA ROAD	0	14203	43215	Unsealed Network Inspection	Unsealed 1 Month	6/01/2022	11/01/2022	14/01/2022	11/01/2022
OTENGI ROAD	0	1584	46333	Unsealed Network Inspection	Unsealed 2 Month	6/01/2022	12/01/2022	18/01/2022	7/01/2022
OTURU BLOCK ROAD	0	1574	43164	Unsealed Network Inspection	Unsealed 2 Month	23/12/2021	11/01/2022	17/01/2022	23/12/2021
OTURU ROAD	2392	3440	42916	Unsealed Network Inspection	Unsealed 1 Month	22/12/2021	7/01/2022	12/01/2022	5/01/2022
OTURU ROAD	0	2392	42879	Sealed Network Inspection	Sealed 1 Month	22/12/2021	7/01/2022	12/01/2022	5/01/2022
PAIRATAHI ROAD	0	3170	45379	Unsealed Network Inspection	Unsealed 1 Month	6/01/2022	11/01/2022	14/01/2022	6/01/2022
PANAKAREAO STREET	0	130	44092	Sealed Network Inspection	Sealed 2 Month	22/12/2021	10/01/2022	14/01/2022	22/12/2021
PAPARANGI DRIVE (MITIMITI)	0	368	44725	Unsealed Network Inspection	Unsealed 2 Month	17/01/2022	21/01/2022	27/01/2022	17/01/2022
PAPARORE ROAD	0	6200	45373	Unsealed Network Inspection	Unsealed 1 Month	5/01/2022	10/01/2022	13/01/2022	7/01/2022
PAPONGA ROAD	0	15660	45463	Unsealed Network Inspection	Unsealed 1 Month	5/01/2022	10/01/2022	13/01/2022	6/01/2022

Road	Start	End	Asset ID	Cyc Act Type	Cyc Act Freq	First Date Okay	Due Date	Last Date Okay	Completed Date
PARAPARA ROAD	0	3314	44594	Unsealed Network Inspection	Unsealed 1 Month	11/01/2022	14/01/2022	19/01/2022	11/01/2022
PARAPARA-TOATOA ROAD	0	7522	44693	Unsealed Network Inspection	Unsealed 1 Month	12/01/2022	17/01/2022	20/01/2022	12/01/2022
PARKDALE CRESCENT	0	333	44008	Sealed Network Inspection	Sealed 2 Month	21/12/2021	7/01/2022	13/01/2022	21/12/2021
PAUA ROAD	0	6253	45247	Unsealed Network Inspection	Unsealed 1 Month	5/01/2022	10/01/2022	13/01/2022	7/01/2022
PAWARENGA ROAD	0	7661	45215	Sealed Network Inspection	Sealed 1 Month	11/01/2022	14/01/2022	19/01/2022	14/01/2022
PAWARENGA ROAD	7661	19191	44677	Unsealed Network Inspection	Unsealed 1 Month	12/01/2022	17/01/2022	20/01/2022	14/01/2022
PEKERAU ROAD	0	9067	44584	Unsealed Network Inspection	Unsealed 1 Month	11/01/2022	14/01/2022	19/01/2022	11/01/2022
PEREHIPE ROAD	0	218	46470	Sealed Network Inspection	Sealed 2 Month	17/01/2022	21/01/2022	27/01/2022	18/01/2022
PINE BLOCK ROAD	0	1910	46128	Unsealed Network Inspection	Unsealed 2 Month	10/01/2022	14/01/2022	20/01/2022	13/01/2022
PLAZA LANE	0	255	43917	Sealed Network Inspection	Sealed 2 Month	21/12/2021	7/01/2022	13/01/2022	21/12/2021
POKO POHAIA ROAD	0	800	46173	Unsealed Network Inspection	Unsealed 2 Month	6/01/2022	12/01/2022	18/01/2022	6/01/2022
PORTERS ACCESS ROAD	0	1062	40995	Unsealed Network Inspection	Unsealed 2 Month	21/12/2021	7/01/2022	13/01/2022	21/12/2021
PORTERS ACCESS ROAD EXTENSION	0	152	42840	Unsealed Network Inspection	Unsealed 2 Month	21/12/2021	7/01/2022	13/01/2022	21/12/2021
POSEIDON WAY	0	110	43803	Sealed Network Inspection	Sealed 2 Month	21/12/2021	7/01/2022	13/01/2022	21/12/2021
POTAHI ROAD	182	625	45363	Unsealed Network Inspection	Unsealed 1 Month	5/01/2022	10/01/2022	13/01/2022	7/01/2022
POTAHI ROAD	0	182	46368	Sealed Network Inspection	Sealed 2 Month	10/01/2022	14/01/2022	20/01/2022	12/01/2022

Road	Start	End	Asset ID	Cyc Act Type	Cyc Act Freq	First Date Okay	Due Date	Last Date Okay	Completed Date
POTTER STREET	0	107	49230	Sealed Network Inspection	Sealed 2 Month	4/01/2022	10/01/2022	14/01/2022	5/01/2022
PROCTOR ROAD	0	3819	45268	Unsealed Network Inspection	Unsealed 2 Month	6/01/2022	12/01/2022	18/01/2022	6/01/2022
PUCKEY AVENUE	0	666	42943	Sealed Network Inspection	Sealed 1 Month	22/12/2021	7/01/2022	12/01/2022	22/12/2021
PUCKEY ROAD	0	532	42985	Unsealed Network Inspection	Unsealed 2 Month	23/12/2021	11/01/2022	17/01/2022	23/12/2021
PUHEKE ROAD	0	4327	46457	Unsealed Network Inspection	Unsealed 2 Month	6/01/2022	12/01/2022	18/01/2022	6/01/2022
PUKEMIRO ROAD	0	3609	46571	Unsealed Network Inspection	Unsealed 2 Month	6/01/2022	12/01/2022	18/01/2022	6/01/2022
PUKENUI WHARF ROAD	0	103	46471	Sealed Network Inspection	Sealed 2 Month	4/01/2022	10/01/2022	14/01/2022	5/01/2022
PUKEPOTO ROAD (KAITAIA)	0	1598	42989	Sealed Network Inspection	Sealed 1 Month	22/12/2021	7/01/2022	12/01/2022	23/12/2021
PUKETAWA ROAD	0	990	46335	Unsealed Network Inspection	Unsealed 2 Month	6/01/2022	12/01/2022	18/01/2022	7/01/2022
PUKEWHAI ROAD	0	2019	45444	Unsealed Network Inspection	Unsealed 1 Month	11/01/2022	14/01/2022	19/01/2022	11/01/2022
PUPUKE MANGAPA ROAD	0	2995	43068	Sealed Network Inspection	Sealed 1 Month	22/12/2021	7/01/2022	12/01/2022	22/12/2021
PUPUKE MANGAPA ROAD	2995	11500	43118	Unsealed Network Inspection	Unsealed 1 Month	22/12/2021	7/01/2022	12/01/2022	22/12/2021
QUARRY ROAD (AWANUI)	0	3646	42999	Sealed Network Inspection	Sealed 1 Month	6/01/2022	11/01/2022	14/01/2022	7/01/2022
QUARRY ROAD (AWANUI)	3646	6098	42984	Unsealed Network Inspection	Unsealed 1 Month	6/01/2022	11/01/2022	14/01/2022	7/01/2022
RAKAUTAPU ROAD	50	8282	45341	Unsealed Network Inspection	Unsealed 1 Month	4/01/2022	7/01/2022	12/01/2022	6/01/2022
RAKAUTAPU ROAD	0	50	49054	Sealed Network Inspection	Sealed 2 Month	4/01/2022	10/01/2022	14/01/2022	6/01/2022

Road	Start	End	Asset ID	Cyc Act Type	Cyc Act Freq	First Date Okay	Due Date	Last Date Okay	Completed Date
RAMP ROAD	0	1663	44695	Unsealed Network Inspection	Unsealed 1 Month	11/01/2022	14/01/2022	19/01/2022	11/01/2022
RANGI POINT ROAD	0	7296	45370	Unsealed Network Inspection	Unsealed 1 Month	6/01/2022	11/01/2022	14/01/2022	7/01/2022
RANGIKOHU ROAD (EPIKAURI ROAD)	0	1660	44724	Unsealed Network Inspection	Unsealed 1 Month	12/01/2022	17/01/2022	20/01/2022	13/01/2022
RANGIPUTA ROAD	0	7450	45429	Sealed Network Inspection	Sealed 1 Month	12/01/2022	17/01/2022	20/01/2022	12/01/2022
RARAWA BEACH ROAD	0	3583	45405	Unsealed Network Inspection	Unsealed 1 Month	5/01/2022	10/01/2022	13/01/2022	5/01/2022
RATA PLACE (KAITAIA)	0	53	43968	Sealed Network Inspection	Sealed 2 Month	21/12/2021	7/01/2022	13/01/2022	21/12/2021
RATA STREET (NINETY MILE BEACH)	0	155	46163	Unsealed Network Inspection	Unsealed 2 Month	6/01/2022	12/01/2022	18/01/2022	7/01/2022
RATAROA ROAD	0	1215	42959	Unsealed Network Inspection	Unsealed 2 Month	21/12/2021	7/01/2022	13/01/2022	22/12/2021
REEF VIEW ROAD	0	444	43763	Sealed Network Inspection	Sealed 2 Month	21/12/2021	7/01/2022	13/01/2022	21/12/2021
RIWHI WAY	0	127	44150	Sealed Network Inspection	Sealed 2 Month	21/12/2021	7/01/2022	13/01/2022	21/12/2021
ROMA ROAD	0	2423	42954	Sealed Network Inspection	Sealed 1 Month	22/12/2021	7/01/2022	12/01/2022	22/12/2021
RONGOPAI PLACE (NORTH)	0	90	44088	Sealed Network Inspection	Sealed 2 Month	22/12/2021	10/01/2022	14/01/2022	22/12/2021
RONGOPAI PLACE (SOUTH)	0	154	44109	Sealed Network Inspection	Sealed 2 Month	22/12/2021	10/01/2022	14/01/2022	22/12/2021
ROSEMAY LANE	0	255	46182	Unsealed Network Inspection	Unsealed 2 Month	6/01/2022	12/01/2022	18/01/2022	7/01/2022
ROTOKAWAU ROAD	0	2199	44682	Unsealed Network Inspection	Unsealed 1 Month	5/01/2022	10/01/2022	13/01/2022	5/01/2022
RUATO ROAD	247	430	43926	Sealed Network Inspection	Sealed 2 Month	21/12/2021	7/01/2022	13/01/2022	21/12/2021

Road	Start	End	Asset ID	Cyc Act Type	Cyc Act Freq	First Date Okay	Due Date	Last Date Okay	Completed Date
RUATO ROAD	0	247	43847	Sealed Network Inspection	Sealed 1 Month	22/12/2021	7/01/2022	12/01/2022	22/12/2021
RUNARUNA ROAD	0	9376	44688	Unsealed Network Inspection	Unsealed 1 Month	6/01/2022	11/01/2022	14/01/2022	7/01/2022
RUSSELL ROAD	0	1824	46420	Unsealed Network Inspection	Unsealed 2 Month	5/01/2022	11/01/2022	17/01/2022	6/01/2022
SALEYARD AVENUE	0	431	45309	Unsealed Network Inspection	Unsealed 1 Month	4/01/2022	7/01/2022	12/01/2022	5/01/2022
SALEYARD ROAD (BROADWOOD)	0	145	44382	Unsealed Network Inspection	Unsealed 2 Month	6/01/2022	12/01/2022	18/01/2022	6/01/2022
SALT ROAD	0	912	46130	Unsealed Network Inspection	Unsealed 2 Month	10/01/2022	14/01/2022	20/01/2022	12/01/2022
SALVATION ROAD (HOUHORA)	0	1221	46119	Unsealed Network Inspection	Unsealed 2 Month	4/01/2022	10/01/2022	14/01/2022	5/01/2022
SANDHILLS ROAD	2261	15570	43008	Unsealed Network Inspection	Unsealed 1 Month	22/12/2021	7/01/2022	12/01/2022	22/12/2021
SANDHILLS ROAD	0	2261	44142	Sealed Network Inspection	Sealed 1 Month	22/12/2021	7/01/2022	12/01/2022	22/12/2021
SCHOOL GULLEY ROAD	140	294	42997	Unsealed Network Inspection	Unsealed 2 Month	23/12/2021	11/01/2022	17/01/2022	23/12/2021
SCHOOL GULLEY ROAD	0	140	44635	Sealed Network Inspection	Sealed 2 Month	23/12/2021	11/01/2022	17/01/2022	23/12/2021
SHANON LANE	0	152	43905	Sealed Network Inspection	Sealed 2 Month	21/12/2021	7/01/2022	13/01/2022	21/12/2021
SHARNOCKS ROAD	0	96	42070	Unsealed Network Inspection	Unsealed 2 Month	21/12/2021	7/01/2022	13/01/2022	22/12/2021
SIMON URLICH ROAD	0	542	44605	Sealed Network Inspection	Sealed 1 Month	11/01/2022	14/01/2022	19/01/2022	11/01/2022
SIMPSON ROAD (KAINGAROA)	0	562	46416	Unsealed Network Inspection	Unsealed 2 Month	5/01/2022	11/01/2022	17/01/2022	6/01/2022
SMITH DEVIATION ROAD	0	2092	46143	Unsealed Network Inspection	Unsealed 2 Month	10/01/2022	14/01/2022	20/01/2022	12/01/2022

Road	Start	End	Asset ID	Cyc Act Type	Cyc Act Freq	First Date Okay	Due Date	Last Date Okay	Completed Date
SOUTHEY STREET	0	92	43712	Sealed Network Inspection	Sealed 2 Month	23/12/2021	11/01/2022	17/01/2022	23/12/2021
SPAINS ROAD	0	1985	45416	Sealed Network Inspection	Sealed 1 Month	6/01/2022	11/01/2022	14/01/2022	7/01/2022
SPAINS ROAD	1985	4800	45303	Unsealed Network Inspection	Unsealed 1 Month	6/01/2022	11/01/2022	14/01/2022	7/01/2022
SPIRITS BAY ROAD	0	9136	44676	Unsealed Network Inspection	Unsealed 1 Month	13/01/2022	18/01/2022	21/01/2022	13/01/2022
SRHOJ ROAD	0	292	46148	Unsealed Network Inspection	Unsealed 2 Month	4/01/2022	10/01/2022	14/01/2022	5/01/2022
STANDING PLACE	0	62	44022	Sealed Network Inspection	Sealed 2 Month	21/12/2021	7/01/2022	13/01/2022	21/12/2021
SUBRITZKY ROAD	0	321	46122	Unsealed Network Inspection	Unsealed 2 Month	4/01/2022	10/01/2022	14/01/2022	5/01/2022
SULENTA LOOP ROAD	0	1138	45384	Sealed Network Inspection	Sealed 1 Month	6/01/2022	11/01/2022	14/01/2022	7/01/2022
SWEETWATER ROAD	1302	2634	44663	Unsealed Network Inspection	Unsealed 1 Month	6/01/2022	11/01/2022	14/01/2022	7/01/2022
SWEETWATER ROAD	0	1302	46380	Sealed Network Inspection	Sealed 2 Month	6/01/2022	12/01/2022	18/01/2022	7/01/2022
SYDANN PLACE	0	88	43976	Sealed Network Inspection	Sealed 2 Month	21/12/2021	7/01/2022	13/01/2022	21/12/2021
TAAFFE STREET	140	186	44113	Sealed Network Inspection	Sealed 2 Month	21/12/2021	7/01/2022	13/01/2022	21/12/2021
TAAFFE STREET	0	140	42922	Sealed Network Inspection	Sealed 1 Month	22/12/2021	7/01/2022	12/01/2022	22/12/2021
TAHANGA ROAD	0	4143	44690	Unsealed Network Inspection	Unsealed 2 Month	17/01/2022	21/01/2022	27/01/2022	17/01/2022
TAHUNA ROAD (KAITAIA)	0	141	44061	Sealed Network Inspection	Sealed 2 Month	22/12/2021	10/01/2022	14/01/2022	22/12/2021
TAIPA POINT ROAD	0	340	43550	Sealed Network Inspection	Sealed 1 Month	12/01/2022	17/01/2022	20/01/2022	12/01/2022

Road	Start	End	Asset ID	Cyc Act Type	Cyc Act Freq	First Date Okay	Due Date	Last Date Okay	Completed Date
TAKAHE ROAD	0	1272	42964	Sealed Network Inspection	Sealed 1 Month	22/12/2021	7/01/2022	12/01/2022	23/12/2021
TAKAHE ROAD	1272	1506	41864	Sealed Network Inspection	Sealed 2 Month	21/12/2021	7/01/2022	13/01/2022	21/12/2021
TAKAHUE SADDLE ROAD (BROADWOOD)	0	2889	45127	Unsealed Network Inspection	Unsealed 2 Month	6/01/2022	12/01/2022	18/01/2022	6/01/2022
TAMAHO ROAD	0	1125	44732	Unsealed Network Inspection	Unsealed 2 Month	6/01/2022	12/01/2022	18/01/2022	6/01/2022
TAMATEA ROAD	88	230	46430	Unsealed Network Inspection	Unsealed 2 Month	6/01/2022	12/01/2022	18/01/2022	6/01/2022
TAMATEA ROAD	0	88	47519	Sealed Network Inspection	Sealed 2 Month	6/01/2022	12/01/2022	18/01/2022	6/01/2022
TANGONGE CRESCENT	0	124	43928	Sealed Network Inspection	Sealed 2 Month	21/12/2021	7/01/2022	13/01/2022	21/12/2021
TANGONGE ROAD	0	933	42927	Unsealed Network Inspection	Unsealed 2 Month	21/12/2021	7/01/2022	13/01/2022	21/12/2021
TANGONGE SERVICE LANE	0	130	43036	Unsealed Network Inspection	Unsealed 2 Month	21/12/2021	7/01/2022	13/01/2022	21/12/2021
TAPOTUPOTU ROAD	0	2563	45376	Unsealed Network Inspection	Unsealed 1 Month	4/01/2022	7/01/2022	12/01/2022	7/01/2022
TARAIRE ROAD	0	2933	42823	Unsealed Network Inspection	Unsealed 2 Month	21/12/2021	7/01/2022	13/01/2022	21/12/2021
TASMAN HEIGHTS	0	335	42921	Sealed Network Inspection	Sealed 1 Month	22/12/2021	7/01/2022	12/01/2022	22/12/2021
TAUMATA ROAD	0	6047	43541	Unsealed Network Inspection	Unsealed 1 Month	12/01/2022	17/01/2022	20/01/2022	12/01/2022
TAUPATA STREET	0	201	43949	Sealed Network Inspection	Sealed 2 Month	21/12/2021	7/01/2022	13/01/2022	21/12/2021
TAURANGA BAY BEACH ROAD	0	553	43696	Sealed Network Inspection	Sealed 1 Month	22/12/2021	7/01/2022	12/01/2022	22/12/2021
TAURANGA BAY ROAD	2550	3018	43828	Unsealed Network Inspection	Unsealed 1 Month	22/12/2021	7/01/2022	12/01/2022	22/12/2021

Road	Start	End	Asset ID	Cyc Act Type	Cyc Act Freq	First Date Okay	Due Date	Last Date Okay	Completed Date
TAURANGA BAY ROAD	0	2550	44135	Sealed Network Inspection	Sealed 2 Month	21/12/2021	7/01/2022	13/01/2022	21/12/2021
TAUTEIHIIHI ROAD	122	912	46133	Unsealed Network Inspection	Unsealed 2 Month	4/01/2022	10/01/2022	14/01/2022	5/01/2022
TAUTEIHIIHI ROAD	0	122	49222	Sealed Network Inspection	Sealed 2 Month	4/01/2022	10/01/2022	14/01/2022	5/01/2022
TAUTORO ROAD	0	352	44738	Unsealed Network Inspection	Unsealed 2 Month	6/01/2022	12/01/2022	18/01/2022	7/01/2022
TE AHU PLACE (WHATUWHIWHI)	0	193	46482	Sealed Network Inspection	Sealed 2 Month	17/01/2022	21/01/2022	27/01/2022	19/01/2022
TE AHU ROAD	0	5380	45367	Unsealed Network Inspection	Unsealed 1 Month	5/01/2022	10/01/2022	13/01/2022	7/01/2022
TE AHU STREET (KAITAIA)	0	238	44077	Sealed Network Inspection	Sealed 2 Month	22/12/2021	10/01/2022	14/01/2022	22/12/2021
TE HAPUA ROAD	0	10538	44700	Unsealed Network Inspection	Unsealed 1 Month	4/01/2022	7/01/2022	12/01/2022	7/01/2022
TE HAPUA ROAD	10538	12467	46210	Sealed Network Inspection	Sealed 2 Month	7/01/2022	13/01/2022	19/01/2022	7/01/2022
TE HUAHUA ROAD	0	1880	45204	Unsealed Network Inspection	Unsealed 1 Month	4/01/2022	7/01/2022	12/01/2022	5/01/2022
TE HUIA MARAE ROAD	0	522	42076	Unsealed Network Inspection	Unsealed 2 Month	21/12/2021	7/01/2022	13/01/2022	22/12/2021
TE KARAKA ROAD	0	3828	46334	Unsealed Network Inspection	Unsealed 2 Month	6/01/2022	12/01/2022	18/01/2022	7/01/2022
TE PAKI STREAM ROAD	0	3738	44703	Unsealed Network Inspection	Unsealed 1 Month	4/01/2022	7/01/2022	12/01/2022	7/01/2022
TE PUA ROAD (PAUA)	0	2086	46191	Unsealed Network Inspection	Unsealed 2 Month	10/01/2022	14/01/2022	20/01/2022	12/01/2022
TE RANGA ROAD	0	608	43134	Unsealed Network Inspection	Unsealed 2 Month	22/12/2021	10/01/2022	14/01/2022	23/12/2021
TE RANGINUI PLACE	0	475	46607	Sealed Network Inspection	Sealed 2 Month	17/01/2022	21/01/2022	27/01/2022	17/01/2022

Road	Start	End	Asset ID	Cyc Act Type	Cyc Act Freq	First Date Okay	Due Date	Last Date Okay	Completed Date
TE REINGA STREET	0	153	42968	Sealed Network Inspection	Sealed 1 Month	22/12/2021	7/01/2022	12/01/2022	22/12/2021
TE RIHA ROADWAY	0	980	44651	Unsealed Network Inspection	Unsealed 2 Month	6/01/2022	12/01/2022	18/01/2022	6/01/2022
TE TAPUI ROAD	0	1113	44163	Sealed Network Inspection	Sealed 2 Month	21/12/2021	7/01/2022	13/01/2022	21/12/2021
TE UMUHUKI ROAD	0	781	45034	Unsealed Network Inspection	Unsealed 2 Month	6/01/2022	12/01/2022	18/01/2022	6/01/2022
TE WATEA MARAE ROAD	0	120	43170	Unsealed Network Inspection	Unsealed 2 Month	21/12/2021	7/01/2022	13/01/2022	22/12/2021
TEACHERS ROAD (BROADWOOD)	0	259	46566	Unsealed Network Inspection	Unsealed 2 Month	6/01/2022	12/01/2022	18/01/2022	6/01/2022
TEPENE TABLELANDS ROAD	0	2369	44132	Unsealed Network Inspection	Unsealed 1 Month	22/12/2021	7/01/2022	12/01/2022	22/12/2021
TERRY CRESCENT	0	222	43998	Sealed Network Inspection	Sealed 2 Month	21/12/2021	7/01/2022	13/01/2022	21/12/2021
THOMPSONS ACCESS	0	381	43095	Unsealed Network Inspection	Unsealed 2 Month	21/12/2021	7/01/2022	13/01/2022	21/12/2021
TODD LANE	0	64	44098	Sealed Network Inspection	Sealed 2 Month	21/12/2021	7/01/2022	13/01/2022	21/12/2021
TOKERAU BEACH ROAD	0	2747	44595	Sealed Network Inspection	Sealed 1 Month	11/01/2022	14/01/2022	19/01/2022	11/01/2022
TRIG ROAD	0	3273	46271	Unsealed Network Inspection	Unsealed 2 Month	4/01/2022	10/01/2022	14/01/2022	5/01/2022
TUI STREET (AHIPARA)	0	155	43794	Sealed Network Inspection	Sealed 2 Month	21/12/2021	7/01/2022	13/01/2022	21/12/2021
TUITONGA ROAD	0	328	46438	Sealed Network Inspection	Sealed 2 Month	17/01/2022	21/01/2022	27/01/2022	18/01/2022
TURK VALLEY ROAD	0	818	46142	Unsealed Network Inspection	Unsealed 2 Month	4/01/2022	10/01/2022	14/01/2022	5/01/2022
TURNER STREET	620	725	44005	Sealed Network Inspection	Sealed 2 Month	23/12/2021	11/01/2022	17/01/2022	23/12/2021

Road	Start	End	Asset ID	Cyc Act Type	Cyc Act Freq	First Date Okay	Due Date	Last Date Okay	Completed Date
TURNER STREET	0	620	43185	Sealed Network Inspection	Sealed 1 Month	6/01/2022	11/01/2022	14/01/2022	6/01/2022
UNAHI ROAD	0	2105	45411	Sealed Network Inspection	Sealed 1 Month	6/01/2022	11/01/2022	14/01/2022	6/01/2022
UNAHI ROAD	2105	2911	45198	Unsealed Network Inspection	Unsealed 1 Month	6/01/2022	11/01/2022	14/01/2022	6/01/2022
VEGAR STREET	0	210	43896	Sealed Network Inspection	Sealed 2 Month	21/12/2021	7/01/2022	13/01/2022	21/12/2021
VIRTUE CRESCENT	0	688	44567	Sealed Network Inspection	Sealed 1 Month	11/01/2022	14/01/2022	19/01/2022	11/01/2022
WAHARUA ROAD	310	934	46178	Unsealed Network Inspection	Unsealed 2 Month	7/01/2022	13/01/2022	19/01/2022	7/01/2022
WAHARUA ROAD	0	310	46394	Sealed Network Inspection	Sealed 2 Month	7/01/2022	13/01/2022	19/01/2022	7/01/2022
WAIHAPA ROAD	0	2245	42102	Unsealed Network Inspection	Unsealed 2 Month	22/12/2021	10/01/2022	14/01/2022	22/12/2021
WAIKARE AVENUE	0	137	43964	Sealed Network Inspection	Sealed 2 Month	23/12/2021	11/01/2022	17/01/2022	23/12/2021
WAIMANGO ROAD	0	2273	46429	Unsealed Network Inspection	Unsealed 2 Month	6/01/2022	12/01/2022	18/01/2022	6/01/2022
WAIMANONI ROAD	0	615	46171	Unsealed Network Inspection	Unsealed 2 Month	6/01/2022	12/01/2022	18/01/2022	6/01/2022
WAINUI ROAD	0	15645	44439	Sealed Network Inspection	Sealed 1 Month	22/12/2021	7/01/2022	12/01/2022	22/12/2021
WAINUI ROAD (WAINUI)	0	723	42897	Unsealed Network Inspection	Unsealed 2 Month	21/12/2021	7/01/2022	13/01/2022	21/12/2021
WAINUI VALLEY ROAD	0	1333	44131	Unsealed Network Inspection	Unsealed 1 Month	22/12/2021	7/01/2022	12/01/2022	22/12/2021
WAINUI-MATAURI BAY ROAD	0	6761	44449	Sealed Network Inspection	Sealed 1 Month	22/12/2021	7/01/2022	12/01/2022	22/12/2021
WAIOTEHUE ROAD	374	15660	44679	Unsealed Network Inspection	Unsealed 2 Month	11/01/2022	17/01/2022	21/01/2022	11/01/2022

Road	Start	End	Asset ID	Cyc Act Type	Cyc Act Freq	First Date Okay	Due Date	Last Date Okay	Completed Date
WAIPAPAKAURI DOMAIN ROAD	281	521	45408	Unsealed Network Inspection	Unsealed 1 Month	6/01/2022	11/01/2022	14/01/2022	6/01/2022
WAIPAPAKAURI DOMAIN ROAD	0	281	46362	Sealed Network Inspection	Sealed 2 Month	6/01/2022	12/01/2022	18/01/2022	6/01/2022
WAITAPU CREEK ROAD	0	84	42825	Unsealed Network Inspection	Unsealed 2 Month	21/12/2021	7/01/2022	13/01/2022	21/12/2021
WAITEHUIA ROAD	0	650	43282	Unsealed Network Inspection	Unsealed 2 Month	21/12/2021	7/01/2022	13/01/2022	21/12/2021
WALKER ROAD	0	805	45402	Unsealed Network Inspection	Unsealed 1 Month	6/01/2022	11/01/2022	14/01/2022	6/01/2022
WARAU STREET	0	68	43111	Unsealed Network Inspection	Unsealed 2 Month	23/12/2021	11/01/2022	17/01/2022	23/12/2021
WARD LANE (KAITAIA)	0	104	44031	Sealed Network Inspection	Sealed 2 Month	21/12/2021	7/01/2022	13/01/2022	21/12/2021
WARD STREET (KAITAIA)	0	137	43984	Sealed Network Inspection	Sealed 2 Month	21/12/2021	7/01/2022	13/01/2022	21/12/2021
WATER LANE	0	56	44025	Sealed Network Inspection	Sealed 2 Month	21/12/2021	7/01/2022	13/01/2022	21/12/2021
WATER LANE	56	140	43155	Unsealed Network Inspection	Unsealed 2 Month	21/12/2021	7/01/2022	13/01/2022	21/12/2021
WATERFRONT ROAD (HOUHORA HEADS)	648	1277	46383	Unsealed Network Inspection	Unsealed 1 Month	4/01/2022	7/01/2022	12/01/2022	5/01/2022
WATERFRONT ROAD (HOUHORA HEADS)	0	648	46326	Sealed Network Inspection	Sealed 2 Month	4/01/2022	10/01/2022	14/01/2022	5/01/2022
WATTS STREET	0	132	44030	Sealed Network Inspection	Sealed 2 Month	21/12/2021	7/01/2022	13/01/2022	21/12/2021
WEBER PLACE	0	94	44079	Sealed Network Inspection	Sealed 2 Month	21/12/2021	7/01/2022	13/01/2022	21/12/2021
WEBER ROAD	0	2644	43127	Unsealed Network Inspection	Unsealed 1 Month	6/01/2022	11/01/2022	14/01/2022	6/01/2022
WEBER WAIHAPA ROAD	0	5392	42693	Unsealed Network Inspection	Unsealed 1 Month	6/01/2022	11/01/2022	14/01/2022	6/01/2022

Road	Start	End	Asset ID	Cyc Act Type	Cyc Act Freq	First Date Okay	Due Date	Last Date Okay	Completed Date
WEKA STREET	0	230	43818	Sealed Network Inspection	Sealed 2 Month	21/12/2021	7/01/2022	13/01/2022	21/12/2021
WEST COAST ROAD (KOHUKOHU)	0	12351	45390	Sealed Network Inspection	Sealed 1 Month	4/01/2022	7/01/2022	12/01/2022	5/01/2022
WEST COAST ROAD (KOHUKOHU)	25167	39720	45368	Unsealed Network Inspection	Unsealed 1 Month	11/01/2022	14/01/2022	19/01/2022	14/01/2022
WEST COAST ROAD (KOHUKOHU)	12351	25167	45362	Sealed Network Inspection	Sealed 1 Month	11/01/2022	14/01/2022	19/01/2022	13/01/2022
WEST COAST ROAD (LAKE NGATU)	5220	5342	45022	Unsealed Network Inspection	Unsealed 1 Month	5/01/2022	10/01/2022	13/01/2022	7/01/2022
WEST COAST ROAD (LAKE NGATU)	0	5220	45424	Sealed Network Inspection	Sealed 1 Month	5/01/2022	10/01/2022	13/01/2022	7/01/2022
WEST LANE	0	286	43880	Sealed Network Inspection	Sealed 2 Month	21/12/2021	7/01/2022	13/01/2022	21/12/2021
WEST ROAD	0	725	43123	Unsealed Network Inspection	Unsealed 2 Month	23/12/2021	11/01/2022	17/01/2022	23/12/2021
WHALERS ROAD	1341	2088	45369	Unsealed Network Inspection	Unsealed 1 Month	4/01/2022	7/01/2022	12/01/2022	5/01/2022
WHALERS ROAD	0	548	45348	Sealed Network Inspection	Sealed 1 Month	4/01/2022	7/01/2022	12/01/2022	5/01/2022
WHALERS ROAD	548	1341	47707	Sealed Network Inspection	Sealed 2 Month	4/01/2022	10/01/2022	14/01/2022	5/01/2022
WHANGAPE ROAD	1318	13351	44705	Unsealed Network Inspection	Unsealed 1 Month	12/01/2022	17/01/2022	20/01/2022	13/01/2022
WHANGAPE TRACK ROAD	0	1407	46211	Unsealed Network Inspection	Unsealed 2 Month	5/01/2022	11/01/2022	17/01/2022	6/01/2022
WHANGATANE DRIVE	0	388	42728	Sealed Network Inspection	Sealed 1 Month	6/01/2022	11/01/2022	14/01/2022	7/01/2022
WHARO WAY	0	179	43731	Sealed Network Inspection	Sealed 2 Month	21/12/2021	7/01/2022	13/01/2022	21/12/2021
WHATUWHIWHI ROAD	0	532	43514	Unsealed Network Inspection	Unsealed 1 Month	12/01/2022	17/01/2022	20/01/2022	12/01/2022

Road	Start	End	Asset ID	Cyc Act Type	Cyc Act Freq	First Date Okay	Due Date	Last Date Okay	Completed Date
WHATUWHIWHI ROAD (NORTH)	1061	1852	45358	Unsealed Network Inspection	Unsealed 1 Month	12/01/2022	17/01/2022	20/01/2022	12/01/2022
WHATUWHIWHI ROAD (NORTH)	0	1061	45337	Sealed Network Inspection	Sealed 1 Month	12/01/2022	17/01/2022	20/01/2022	12/01/2022
WILLIAMS STREET (KAITAIA)	0	356	43989	Sealed Network Inspection	Sealed 2 Month	21/12/2021	7/01/2022	13/01/2022	21/12/2021
WINDY HILL ROAD	0	2514	46339	Unsealed Network Inspection	Unsealed 2 Month	6/01/2022	12/01/2022	18/01/2022	7/01/2022
WIRELESS ROAD	2376	2848	43001	Unsealed Network Inspection	Unsealed 1 Month	6/01/2022	11/01/2022	14/01/2022	7/01/2022
WIRELESS ROAD	0	2376	42998	Sealed Network Inspection	Sealed 1 Month	6/01/2022	11/01/2022	14/01/2022	7/01/2022
WORTH STREET	0	386	43973	Sealed Network Inspection	Sealed 2 Month	21/12/2021	7/01/2022	13/01/2022	21/12/2021
WRECK BAY ROAD	0	586	42952	Unsealed Network Inspection	Unsealed 1 Month	22/12/2021	7/01/2022	12/01/2022	23/12/2021
YARBOROUGH STREET	0	490	49221	Sealed Network Inspection	Sealed 2 Month	4/01/2022	10/01/2022	14/01/2022	5/01/2022
ZIDICH ROAD	0	1774	46569	Unsealed Network Inspection	Unsealed 2 Month	17/01/2022	21/01/2022	27/01/2022	20/01/2022

NETWORK INSPECTIONS PROGRAMMED NEXT MONTH

Road	Start	End	Asset ID	Cyc Act Type	Cyc Act Freq	First Date Okay	Due Date	Last Date Okay	Completed Date
ADAMSON ROAD	0	608	49559	Sealed Network Inspection	Sealed 2 Month	10/02/2022	16/02/2022	22/02/2022	10/02/2022
AHIPARA ROAD	0	2557	44415	Sealed Network Inspection	Sealed 1 Month	4/02/2022	10/02/2022	15/02/2022	4/02/2022
AKATERE ROAD	0	768	44824	Unsealed Network Inspection	Unsealed 1 Month	28/01/2022	3/02/2022	9/02/2022	28/01/2022
ALLEN BELL DRIVE	0	1535	44119	Sealed Network Inspection	Sealed 1 Month	4/02/2022	10/02/2022	15/02/2022	4/02/2022
APUTEREWA ROAD	0	872	44829	Unsealed Network Inspection	Unsealed 2 Month	10/02/2022	16/02/2022	22/02/2022	11/02/2022
ARAWHATA ROAD	0	1254	46341	Unsealed Network Inspection	Unsealed 1 Month	7/02/2022	10/02/2022	15/02/2022	8/02/2022

Road	Start	End	Asset ID	Cyc Act Type	Cyc Act Freq	First Date Okay	Due Date	Last Date Okay	Completed Date
ARKLES WAY	0	247	44626	Unsealed Network Inspection	Unsealed 2 Month	10/02/2022	16/02/2022	22/02/2022	10/02/2022
AURERE BEACH ROAD	0	676	45482	Unsealed Network Inspection	Unsealed 1 Month	10/02/2022	15/02/2022	18/02/2022	10/02/2022
AWAROA ROAD	0	9095	45510	Sealed Network Inspection	Sealed 1 Month	10/02/2022	15/02/2022	18/02/2022	10/02/2022
BACKRIVER ROAD	0	8545	44681	Unsealed Network Inspection	Unsealed 1 Month	11/02/2022	16/02/2022	21/02/2022	14/02/2022
BANK STREET	0	339	43885	Sealed Network Inspection	Sealed 1 Month	4/02/2022	10/02/2022	15/02/2022	4/02/2022
BANKSIA ROAD	0	133	49731	Sealed Network Inspection	Sealed 2 Month	16/02/2022	22/02/2022	28/02/2022	
BARRIBALL ROAD (ORURU)	0	1121	45517	Unsealed Network Inspection	Unsealed 1 Month	11/02/2022	16/02/2022	21/02/2022	11/02/2022
BAYSIDE DRIVE	0	353	49736	Sealed Network Inspection	Sealed 2 Month	16/02/2022	22/02/2022	28/02/2022	
BAYVIEW ROAD (COOPERS BEACH)	0	240	49690	Sealed Network Inspection	Sealed 2 Month	16/02/2022	22/02/2022	28/02/2022	
BEACH ROAD (MANGONUI)	0	1153	45281	Sealed Network Inspection	Sealed 1 Month	28/01/2022	3/02/2022	9/02/2022	28/01/2022
BELL ROAD	0	2544	44957	Unsealed Network Inspection	Unsealed 1 Month	9/02/2022	14/02/2022	17/02/2022	9/02/2022
BLENCOWE STREET	0	141	43922	Sealed Network Inspection	Sealed 1 Month	4/02/2022	10/02/2022	15/02/2022	4/02/2022
BONNETTS ROAD	0	1019	43991	Sealed Network Inspection	Sealed 1 Month	4/02/2022	10/02/2022	15/02/2022	4/02/2022
BONNETTS ROAD	1019	3235	44017	Unsealed Network Inspection	Unsealed 1 Month	4/02/2022	10/02/2022	15/02/2022	4/02/2022
BRASS ROAD	0	4150	43567	Unsealed Network Inspection	Unsealed 1 Month	4/02/2022	10/02/2022	15/02/2022	4/02/2022
BROADWOOD ROAD	0	13833	46261	Sealed Network Inspection	Sealed 1 Month	4/02/2022	9/02/2022	14/02/2022	4/02/2022
BROTT ROAD	0	1704	44941	Unsealed Network Inspection	Unsealed 1 Month	9/02/2022	14/02/2022	17/02/2022	9/02/2022
BRUNTON PLACE	0	91	49380	Sealed Network Inspection	Sealed 2 Month	9/02/2022	15/02/2022	21/02/2022	9/02/2022
BURNAGE ROAD	0	1783	46306	Unsealed Network Inspection	Unsealed 1 Month	3/02/2022	8/02/2022	11/02/2022	8/02/2022
BUSH POINT ROAD (TAIPA)	0	179	49714	Sealed Network Inspection	Sealed 2 Month	16/02/2022	22/02/2022	28/02/2022	
CABLE BAY BLOCK ROAD	0	1366	44659	Sealed Network Inspection	Sealed 1 Month	27/01/2022	2/02/2022	8/02/2022	28/01/2022

Road	Start	End	Asset ID	Cyc Act Type	Cyc Act Freq	First Date Okay	Due Date	Last Date Okay	Completed Date
CABLE BAY BLOCK ROAD	1366	4202	44596	Unsealed Network Inspection	Unsealed 1 Month	27/01/2022	2/02/2022	8/02/2022	28/01/2022
CAMP ROAD	0	1147	46363	Unsealed Network Inspection	Unsealed 1 Month	4/02/2022	9/02/2022	14/02/2022	4/02/2022
CAMPBELL ROAD (TOATOA)	0	1230	44745	Unsealed Network Inspection	Unsealed 2 Month	16/02/2022	22/02/2022	28/02/2022	
CAMPBELL ROAD (TOTARA NORTH)	0	729	44831	Unsealed Network Inspection	Unsealed 1 Month	1/02/2022	4/02/2022	10/02/2022	1/02/2022
CARR ROAD	0	1292	44813	Unsealed Network Inspection	Unsealed 2 Month	10/02/2022	16/02/2022	22/02/2022	11/02/2022
CEMETERY ROAD (HOUHORA)	0	364	46124	Unsealed Network Inspection	Unsealed 1 Month	3/02/2022	8/02/2022	11/02/2022	8/02/2022
CHAMPIONS ROAD	0	2515	45141	Unsealed Network Inspection	Unsealed 1 Month	28/01/2022	3/02/2022	9/02/2022	28/01/2022
CHURCH ROAD (KAITAIA)	0	642	44166	Sealed Network Inspection	Sealed 1 Month	9/02/2022	14/02/2022	17/02/2022	9/02/2022
CHURCH ROAD (KAITAIA)	642	2587	43785	Sealed Network Inspection	Sealed 1 Month	9/02/2022	14/02/2022	17/02/2022	9/02/2022
CHURCH ROAD (KAITAIA)	2587	15017	44050	Unsealed Network Inspection	Unsealed 1 Month	9/02/2022	14/02/2022	17/02/2022	9/02/2022
CLOUGH ROAD	0	3310	43839	Unsealed Network Inspection	Unsealed 1 Month	1/02/2022	4/02/2022	10/02/2022	1/02/2022
COACHMANS WAY	0	193	49683	Sealed Network Inspection	Sealed 2 Month	16/02/2022	22/02/2022	28/02/2022	
COMMERCE STREET (KAITAIA)	0	1285	44987	Sealed Network Inspection	Sealed 2 Week	4/02/2022	9/02/2022	11/02/2022	4/02/2022
COMMERCE STREET (KAITAIA)	0	1285	45319	Sealed Network Inspection	Sealed 2 Week	21/02/2022	23/02/2022	25/02/2022	
COMPASS COVE	0	52	47009	Sealed Network Inspection	Sealed 2 Month	16/02/2022	22/02/2022	28/02/2022	
DANGEN ROAD	0	5212	45523	Unsealed Network Inspection	Unsealed 1 Month	14/02/2022	17/02/2022	22/02/2022	14/02/2022
DE SURVILLE ROAD	0	156	45452	Sealed Network Inspection	Sealed 1 Month	11/02/2022	16/02/2022	21/02/2022	11/02/2022
DICK URLICH ROAD	0	1753	45873	Unsealed Network Inspection	Unsealed 1 Month	10/02/2022	15/02/2022	18/02/2022	10/02/2022
DIGGERS VALLEY ROAD	0	21878	45464	Unsealed Network Inspection	Unsealed 1 Month	14/02/2022	17/02/2022	22/02/2022	
DIP ROAD	0	55	43981	Unsealed Network Inspection	Unsealed 1 Month	9/02/2022	14/02/2022	17/02/2022	9/02/2022
DIP ROAD	55	1065	56919	Unsealed Network Inspection	Unsealed 1 Month	9/02/2022	14/02/2022	17/02/2022	9/02/2022

Road	Start	End	Asset ID	Cyc Act Type	Cyc Act Freq	First Date Okay	Due Date	Last Date Okay	Completed Date
DIP ROAD	1065	1115	56863	Unsealed Network Inspection	Unsealed 1 Month	9/02/2022	14/02/2022	17/02/2022	9/02/2022
DIP ROAD	1115	1700	56975	Unsealed Network Inspection	Unsealed 1 Month	9/02/2022	14/02/2022	17/02/2022	9/02/2022
DODDS ROAD	19	286	44846	Unsealed Network Inspection	Unsealed 1 Month	28/01/2022	3/02/2022	9/02/2022	28/01/2022
DOMINION ROAD	0	701	43894	Sealed Network Inspection	Sealed 1 Month	4/02/2022	10/02/2022	15/02/2022	4/02/2022
DONALD LANE	0	387	43861	Sealed Network Inspection	Sealed 1 Month	9/02/2022	14/02/2022	17/02/2022	9/02/2022
DONALDS ROAD (EAST)	0	1140	43856	Sealed Network Inspection	Sealed 1 Month	9/02/2022	14/02/2022	17/02/2022	9/02/2022
DOUBTLESS BAY DRIVE	0	751	45434	Sealed Network Inspection	Sealed 1 Month	11/02/2022	16/02/2022	21/02/2022	11/02/2022
DRIFTWOOD LANE	0	93	47021	Sealed Network Inspection	Sealed 2 Month	16/02/2022	22/02/2022	28/02/2022	
DUDLEY CRESCENT	0	521	49696	Sealed Network Inspection	Sealed 2 Month	16/02/2022	22/02/2022	28/02/2022	
DUNCAN ROAD (KAINGAROA)	0	1577	46449	Sealed Network Inspection	Sealed 1 Month	10/02/2022	15/02/2022	18/02/2022	10/02/2022
DUNCAN ROAD (KAINGAROA)	1577	15890	45855	Unsealed Network Inspection	Unsealed 1 Month	10/02/2022	15/02/2022	18/02/2022	14/02/2022
DYSART ROAD	0	854	44844	Unsealed Network Inspection	Unsealed 2 Month	10/02/2022	16/02/2022	22/02/2022	10/02/2022
EAGLES WAY	0	168	49728	Sealed Network Inspection	Sealed 2 Month	16/02/2022	22/02/2022	28/02/2022	
EAST LANE (SERVICE LANE #1)	0	110	44085	Sealed Network Inspection	Sealed 1 Month	4/02/2022	10/02/2022	15/02/2022	4/02/2022
EAST LANE (SERVICE LANE #2)	0	151	44068	Sealed Network Inspection	Sealed 1 Month	4/02/2022	10/02/2022	15/02/2022	4/02/2022
EAST STREET	0	137	49596	Sealed Network Inspection	Sealed 2 Month	10/02/2022	16/02/2022	22/02/2022	10/02/2022
EATON ROAD	0	580	44810	Unsealed Network Inspection	Unsealed 2 Month	10/02/2022	16/02/2022	22/02/2022	10/02/2022
EMPIRE STREET	0	333	44141	Sealed Network Inspection	Sealed 1 Month	4/02/2022	10/02/2022	15/02/2022	4/02/2022
EVERITT ROAD	0	1072	46393	Unsealed Network Inspection	Unsealed 1 Month	4/02/2022	10/02/2022	15/02/2022	4/02/2022
FAIRBURN ROAD	0	7050	44707	Sealed Network Inspection	Sealed 1 Month	27/01/2022	2/02/2022	8/02/2022	27/01/2022
FAIRBURN ROAD	7050	10380	42502	Sealed Network Inspection	Sealed 1 Month	27/01/2022	2/02/2022	8/02/2022	27/01/2022

Road	Start	End	Asset ID	Cyc Act Type	Cyc Act Freq	First Date Okay	Due Date	Last Date Okay	Completed Date
FAIRWINDS PLACE	0	91	47012	Sealed Network Inspection	Sealed 2 Month	16/02/2022	22/02/2022	28/02/2022	
FERN FLAT ROAD	0	12774	45536	Unsealed Network Inspection	Unsealed 1 Month	14/02/2022	17/02/2022	22/02/2022	14/02/2022
FISHER-RILEY ROAD	0	10465	44882	Unsealed Network Inspection	Unsealed 1 Month	28/01/2022	3/02/2022	9/02/2022	28/01/2022
FITZGERALD ROAD	0	238	47442	Sealed Network Inspection	Sealed 1 Month	3/02/2022	8/02/2022	11/02/2022	8/02/2022
FORESHORE ROAD (AHIPARA)	0	2415	44138	Sealed Network Inspection	Sealed 1 Month	4/02/2022	10/02/2022	15/02/2022	4/02/2022
FORESHORE ROAD (AHIPARA)	2415	3182	44090	Sealed Network Inspection	Sealed 1 Month	4/02/2022	10/02/2022	15/02/2022	4/02/2022
FORESHORE ROAD (TAIPA)	0	300	44618	Sealed Network Inspection	Sealed 1 Month	11/02/2022	16/02/2022	21/02/2022	11/02/2022
FOSTERS ROAD	0	845	44641	Unsealed Network Inspection	Unsealed 1 Month	27/01/2022	2/02/2022	8/02/2022	28/01/2022
FRANGIPANI STREET	0	98	49595	Sealed Network Inspection	Sealed 2 Month	16/02/2022	22/02/2022	28/02/2022	
FRANTOIO RIDGE RD	0	1240	46820	Sealed Network Inspection	Sealed 2 Month	16/02/2022	22/02/2022	28/02/2022	
FRYER ROAD	0	3739	44744	Unsealed Network Inspection	Unsealed 1 Month	1/02/2022	4/02/2022	10/02/2022	1/02/2022
GANGWAY ROAD	0	1086	44835	Unsealed Network Inspection	Unsealed 1 Month	1/02/2022	4/02/2022	10/02/2022	1/02/2022
GARTON ROAD	0	1250	44634	Unsealed Network Inspection	Unsealed 2 Month	11/02/2022	17/02/2022	23/02/2022	11/02/2022
GILLS ROAD (AWANUI)	0	3220	44028	Sealed Network Inspection	Sealed 1 Month	9/02/2022	14/02/2022	17/02/2022	9/02/2022
GILLS ROAD (AWANUI)	3220	9526	44036	Unsealed Network Inspection	Unsealed 1 Month	9/02/2022	14/02/2022	17/02/2022	9/02/2022
GOSHEN VALLEY ROAD	0	2257	44702	Unsealed Network Inspection	Unsealed 2 Month	16/02/2022	22/02/2022	28/02/2022	
GRIGG STREET	0	657	43952	Sealed Network Inspection	Sealed 1 Month	4/02/2022	10/02/2022	15/02/2022	4/02/2022
HAUMANGA ROAD	0	3514	46088	Unsealed Network Inspection	Unsealed 1 Month	11/02/2022	16/02/2022	21/02/2022	14/02/2022
HAURIRI ROAD	0	939	44970	Unsealed Network Inspection	Unsealed 1 Month	4/02/2022	10/02/2022	15/02/2022	8/02/2022
HAWKINS ROAD (KOHUKOHU)	0	1907	46140	Unsealed Network Inspection	Unsealed 1 Month	3/02/2022	8/02/2022	11/02/2022	3/02/2022
HEATH ROAD	0	4846	45530	Unsealed Network Inspection	Unsealed 1 Month	4/02/2022	9/02/2022	14/02/2022	4/02/2022

Road	Start	End	Asset ID	Cyc Act Type	Cyc Act Freq	First Date Okay	Due Date	Last Date Okay	Completed Date
HENDERSON BAY ROAD	0	5689	46324	Unsealed Network Inspection	Unsealed 1 Month	3/02/2022	8/02/2022	11/02/2022	8/02/2022
HERETAUNGA CRESCENT	0	156	49702	Sealed Network Inspection	Sealed 2 Month	16/02/2022	22/02/2022	28/02/2022	
HIBISCUS AVENUE	0	271	49699	Sealed Network Inspection	Sealed 2 Month	16/02/2022	22/02/2022	28/02/2022	
HICKS ROAD	0	1932	44792	Unsealed Network Inspection	Unsealed 2 Month	9/02/2022	15/02/2022	21/02/2022	10/02/2022
HIHI BEACH ROAD	0	651	44978	Sealed Network Inspection	Sealed 1 Month	27/01/2022	2/02/2022	8/02/2022	28/01/2022
HIHI ROAD	0	5018	44711	Sealed Network Inspection	Sealed 1 Month	27/01/2022	2/02/2022	8/02/2022	28/01/2022
HIKURUA ROAD	0	2497	44947	Unsealed Network Inspection	Unsealed 1 Month	4/02/2022	10/02/2022	15/02/2022	4/02/2022
HONEYMOON VALLEY ROAD	0	930	44891	Sealed Network Inspection	Sealed 1 Month	28/01/2022	3/02/2022	9/02/2022	28/01/2022
HONEYMOON VALLEY ROAD	930	7047	44838	Unsealed Network Inspection	Unsealed 1 Month	27/01/2022	2/02/2022	8/02/2022	28/01/2022
HOUHORA HEADS ROAD	0	2337	44640	Sealed Network Inspection	Sealed 1 Month	3/02/2022	8/02/2022	11/02/2022	8/02/2022
HUI ROAD	0	1249	44864	Unsealed Network Inspection	Unsealed 2 Month	10/02/2022	16/02/2022	22/02/2022	10/02/2022
HUIA ROAD	0	815	44014	Unsealed Network Inspection	Unsealed 1 Month	9/02/2022	14/02/2022	17/02/2022	9/02/2022
IMMS ROAD (FAR NORTH)	0	935	45895	Unsealed Network Inspection	Unsealed 1 Month	4/02/2022	9/02/2022	14/02/2022	4/02/2022
INLAND ROAD	0	14411	46323	Sealed Network Inspection	Sealed 1 Month	10/02/2022	15/02/2022	18/02/2022	10/02/2022
INLAND ROAD	14411	15244	46469	Sealed Network Inspection	Sealed 1 Month	10/02/2022	15/02/2022	18/02/2022	10/02/2022
IWITAUA ROAD	0	15004	46224	Unsealed Network Inspection	Unsealed 1 Month	17/02/2022	22/02/2022	25/02/2022	
JASONS ROAD	0	158	44664	Unsealed Network Inspection	Unsealed 2 Month	11/02/2022	17/02/2022	23/02/2022	11/02/2022
KAIMAUMAU ROAD	0	8759	46404	Sealed Network Inspection	Sealed 1 Month	4/02/2022	9/02/2022	14/02/2022	4/02/2022
KAITAIA-AWAROA ROAD	0	1182	43936	Sealed Network Inspection	Sealed 1 Month	4/02/2022	10/02/2022	15/02/2022	4/02/2022
KAITAIA-AWAROA ROAD	1182	17777	44001	Sealed Network Inspection	Sealed 1 Month	4/02/2022	10/02/2022	15/02/2022	4/02/2022
KAITAIA-AWAROA ROAD	17777	31038	46485	Sealed Network Inspection	Sealed 1 Month	14/02/2022	17/02/2022	22/02/2022	

Road	Start	End	Asset ID	Cyc Act Type	Cyc Act Freq	First Date Okay	Due Date	Last Date Okay	Completed Date
KATAVICH ROAD	0	200	46284	Sealed Network Inspection	Sealed 1 Month	3/02/2022	8/02/2022	11/02/2022	8/02/2022
KAUAEPEPE ROAD	0	2244	46330	Unsealed Network Inspection	Unsealed 1 Month	4/02/2022	9/02/2022	14/02/2022	4/02/2022
KAUHANGA ROAD	0	522	47051	Unsealed Network Inspection	Unsealed 2 Month	10/02/2022	16/02/2022	22/02/2022	10/02/2022
KENANA ROAD	0	4967	44568	Unsealed Network Inspection	Unsealed 1 Month	27/01/2022	2/02/2022	8/02/2022	1/02/2022
KIMBERLEY ROAD	0	6197	45380	Unsealed Network Inspection	Unsealed 1 Month	4/02/2022	9/02/2022	14/02/2022	4/02/2022
KITCHEN ROAD	0	768	45024	Unsealed Network Inspection	Unsealed 1 Month	28/01/2022	3/02/2022	9/02/2022	28/01/2022
KOHUKOHU ROAD	0	17624	47421	Sealed Network Inspection	Sealed 1 Month	4/02/2022	9/02/2022	14/02/2022	4/02/2022
KOHUMARU ROAD	0	20085	44592	Unsealed Network Inspection	Unsealed 1 Month	28/01/2022	3/02/2022	9/02/2022	2/02/2022
KOWHITIKARU ROAD	0	2401	46385	Unsealed Network Inspection	Unsealed 1 Month	11/02/2022	16/02/2022	21/02/2022	11/02/2022
KUMI ROAD	0	3964	42494	Sealed Network Inspection	Sealed 1 Month	7/02/2022	10/02/2022	15/02/2022	8/02/2022
KUNICICH ROAD	0	1565	46413	Unsealed Network Inspection	Unsealed 1 Month	7/02/2022	10/02/2022	15/02/2022	8/02/2022
LAKE NGATU ROAD	0	100	46259	Unsealed Network Inspection	Unsealed 1 Month	7/02/2022	10/02/2022	15/02/2022	8/02/2022
LAKE ROAD (KAITAIA)	0	513	44002	Sealed Network Inspection	Sealed 1 Month	4/02/2022	10/02/2022	15/02/2022	4/02/2022
LAMB ROAD	557	2137	46322	Unsealed Network Inspection	Unsealed 1 Month	3/02/2022	8/02/2022	11/02/2022	8/02/2022
LARMER ROAD	0	3730	44721	Sealed Network Inspection	Sealed 1 Month	1/02/2022	4/02/2022	10/02/2022	1/02/2022
LEACOCK ROAD	0	415	44885	Unsealed Network Inspection	Unsealed 1 Month	1/02/2022	4/02/2022	10/02/2022	1/02/2022
LECCINO VALLEY ROAD	0	832	46806	Sealed Network Inspection	Sealed 2 Month	16/02/2022	22/02/2022	28/02/2022	
LESLIE ROAD	0	293	49722	Sealed Network Inspection	Sealed 2 Month	16/02/2022	22/02/2022	28/02/2022	
MAGNOLIA DRIVE	0	98	49693	Sealed Network Inspection	Sealed 2 Month	16/02/2022	22/02/2022	28/02/2022	
MAHINEPUA ROAD	0	970	44865	Unsealed Network Inspection	Unsealed 1 Month	4/02/2022	10/02/2022	15/02/2022	4/02/2022
MAKO STREET (TAUPO BAY)	0	503	44807	Sealed Network Inspection	Sealed 1 Month	1/02/2022	4/02/2022	10/02/2022	1/02/2022

Road	Start	End	Asset ID	Cyc Act Type	Cyc Act Freq	First Date Okay	Due Date	Last Date Okay	Completed Date
MAMARU ROAD	0	196	49574	Sealed Network Inspection	Sealed 2 Month	10/02/2022	16/02/2022	22/02/2022	10/02/2022
MANGAMUKA ROAD	0	10304	47449	Sealed Network Inspection	Sealed 1 Month	3/02/2022	8/02/2022	11/02/2022	3/02/2022
MANGAMUKA SCHOOL ROAD	0	380	46198	Unsealed Network Inspection	Unsealed 1 Month	3/02/2022	8/02/2022	11/02/2022	3/02/2022
MANGATAIPA ROAD	0	3987	45520	Unsealed Network Inspection	Unsealed 1 Month	3/02/2022	8/02/2022	11/02/2022	3/02/2022
MANGATETE ROAD	0	830	46479	Unsealed Network Inspection	Unsealed 1 Month	10/02/2022	15/02/2022	18/02/2022	11/02/2022
MANGATOETOE ROAD	0	6978	44756	Unsealed Network Inspection	Unsealed 1 Month	28/01/2022	3/02/2022	9/02/2022	28/01/2022
MANUKAU ROAD	0	612	44873	Unsealed Network Inspection	Unsealed 2 Month	10/02/2022	16/02/2022	22/02/2022	10/02/2022
MARCHANT ROAD	0	478	47068	Sealed Network Inspection	Sealed 2 Month	16/02/2022	22/02/2022	28/02/2022	
MARLIN DRIVE	0	420	44765	Sealed Network Inspection	Sealed 1 Month	1/02/2022	4/02/2022	10/02/2022	1/02/2022
MARREINE PLACE	0	448	49507	Sealed Network Inspection	Sealed 2 Month	9/02/2022	15/02/2022	21/02/2022	9/02/2022
MARTIN ROAD (KAEO)	2420	9361	43971	Unsealed Network Inspection	Unsealed 1 Month	9/02/2022	14/02/2022	17/02/2022	9/02/2022
MASTERS ACCESS ROAD	0	1897	43811	Unsealed Network Inspection	Unsealed 1 Month	4/02/2022	10/02/2022	15/02/2022	4/02/2022
MATAI BAY ROAD	0	3903	46421	Sealed Network Inspection	Sealed 1 Month	11/02/2022	16/02/2022	21/02/2022	11/02/2022
MATAI BAY ROAD	3903	5280	46227	Unsealed Network Inspection	Unsealed 1 Month	11/02/2022	16/02/2022	21/02/2022	11/02/2022
MATAURI BAY ROAD	0	14021	45343	Sealed Network Inspection	Sealed 1 Month	4/02/2022	10/02/2022	15/02/2022	4/02/2022
MATAURI BEACH ROAD	0	2192	45158	Sealed Network Inspection	Sealed 1 Month	4/02/2022	10/02/2022	15/02/2022	8/02/2022
MATAURI BEACH ROAD (MATAURI X)	0	343	45139	Sealed Network Inspection	Sealed 1 Month	4/02/2022	10/02/2022	15/02/2022	8/02/2022
MATAURI LINK ROAD	0	1094	44678	Unsealed Network Inspection	Unsealed 1 Month	4/02/2022	10/02/2022	15/02/2022	4/02/2022
MATICH ROAD	0	1663	46431	Unsealed Network Inspection	Unsealed 1 Month	7/02/2022	10/02/2022	15/02/2022	8/02/2022
MELBA STREET	0	173	43933	Sealed Network Inspection	Sealed 1 Month	4/02/2022	10/02/2022	15/02/2022	4/02/2022
MELISSA ROAD	0	189	49521	Sealed Network Inspection	Sealed 2 Month	9/02/2022	15/02/2022	21/02/2022	9/02/2022

Road	Start	End	Asset ID	Cyc Act Type	Cyc Act Freq	First Date Okay	Due Date	Last Date Okay	Completed Date
MIDGELEY ROAD	0	2217	44708	Sealed Network Inspection	Sealed 1 Month	27/01/2022	2/02/2022	8/02/2022	28/01/2022
MOREY ROAD	0	572	49441	Sealed Network Inspection	Sealed 2 Month	16/02/2022	22/02/2022	28/02/2022	
MOREY ROAD	572	655	44689	Unsealed Network Inspection	Unsealed 2 Month	16/02/2022	22/02/2022	28/02/2022	
NANCY WAKE PLACE	0	213	49679	Sealed Network Inspection	Sealed 2 Month	16/02/2022	22/02/2022	28/02/2022	
NGATAKI ROAD	0	3927	46374	Unsealed Network Inspection	Unsealed 1 Month	4/02/2022	9/02/2022	14/02/2022	4/02/2022
NGATIKAHU ROAD	0	78	49570	Sealed Network Inspection	Sealed 2 Month	10/02/2022	16/02/2022	22/02/2022	10/02/2022
NGATIKAHU ROAD	78	207	44619	Unsealed Network Inspection	Unsealed 2 Month	10/02/2022	16/02/2022	22/02/2022	10/02/2022
NORTH ROAD (KAITAIA)	0	586	45069	Sealed Network Inspection	Sealed 2 Week	3/02/2022	8/02/2022	10/02/2022	4/02/2022
NORTH ROAD (KAITAIA)	0	586	45355	Sealed Network Inspection	Sealed 2 Week	18/02/2022	22/02/2022	24/02/2022	
OCEAN VIEW ROAD	0	210	49665	Sealed Network Inspection	Sealed 2 Month	16/02/2022	22/02/2022	28/02/2022	
OKAHU ROAD (SOUTH)	0	4852	44892	Sealed Network Inspection	Sealed 1 Month	1/02/2022	4/02/2022	10/02/2022	1/02/2022
OLIVE VIEW HEIGHTS DRIVE	0	1190	44643	Unsealed Network Inspection	Unsealed 2 Month	16/02/2022	22/02/2022	28/02/2022	
OMAHUTA ROAD	0	5270	46179	Unsealed Network Inspection	Unsealed 1 Month	3/02/2022	8/02/2022	11/02/2022	3/02/2022
OMATAI ROAD	0	1553	44606	Unsealed Network Inspection	Unsealed 2 Month	11/02/2022	17/02/2022	23/02/2022	11/02/2022
OMAUNU ROAD	0	2952	43526	Sealed Network Inspection	Sealed 1 Month	4/02/2022	10/02/2022	15/02/2022	4/02/2022
OMAUNU ROAD	2952	13064	43511	Unsealed Network Inspection	Unsealed 1 Month	4/02/2022	10/02/2022	15/02/2022	4/02/2022
ORURU ROAD	0	264	45387	Sealed Network Inspection	Sealed 1 Month	14/02/2022	17/02/2022	22/02/2022	14/02/2022
ORURU ROAD	264	14554	45470	Sealed Network Inspection	Sealed 1 Month	14/02/2022	17/02/2022	22/02/2022	14/02/2022
ORURU ROAD SERVICE LANE	0	106	49534	Sealed Network Inspection	Sealed 2 Month	10/02/2022	16/02/2022	22/02/2022	10/02/2022
OTAIPANGO ROAD	0	984	46297	Unsealed Network Inspection	Unsealed 1 Month	3/02/2022	8/02/2022	11/02/2022	8/02/2022
OTANGAROA ROAD	0	14203	44213	Unsealed Network Inspection	Unsealed 1 Month	9/02/2022	14/02/2022	17/02/2022	9/02/2022

Road	Start	End	Asset ID	Cyc Act Type	Cyc Act Freq	First Date Okay	Due Date	Last Date Okay	Completed Date
OTURU ROAD	0	2392	43833	Sealed Network Inspection	Sealed 1 Month	4/02/2022	10/02/2022	15/02/2022	4/02/2022
OTURU ROAD	2392	3440	43860	Unsealed Network Inspection	Unsealed 1 Month	4/02/2022	10/02/2022	15/02/2022	4/02/2022
OWHATA ROAD	0	3130	46783	Unsealed Network Inspection	Unsealed 2 Month	10/02/2022	16/02/2022	22/02/2022	10/02/2022
PACKARD ROAD	0	252	44638	Unsealed Network Inspection	Unsealed 2 Month	10/02/2022	16/02/2022	22/02/2022	10/02/2022
PAIRATAHI ROAD	0	3170	46369	Unsealed Network Inspection	Unsealed 1 Month	7/02/2022	10/02/2022	15/02/2022	8/02/2022
PAPARORE ROAD	0	6200	46367	Unsealed Network Inspection	Unsealed 1 Month	4/02/2022	9/02/2022	14/02/2022	4/02/2022
PAPONGA ROAD	0	15660	46493	Unsealed Network Inspection	Unsealed 1 Month	4/02/2022	9/02/2022	14/02/2022	4/02/2022
PARANUI ROAD	0	5159	44650	Unsealed Network Inspection	Unsealed 1 Month	27/01/2022	2/02/2022	8/02/2022	28/01/2022
PARANUI-TOATOA ROAD	0	4451	44598	Unsealed Network Inspection	Unsealed 1 Month	27/01/2022	2/02/2022	8/02/2022	28/01/2022
PARAPARA ROAD	0	3314	45456	Unsealed Network Inspection	Unsealed 1 Month	10/02/2022	15/02/2022	18/02/2022	10/02/2022
PARAPARA-TOATOA ROAD	0	7522	45552	Unsealed Network Inspection	Unsealed 1 Month	11/02/2022	16/02/2022	21/02/2022	11/02/2022
PAREMATA NEXUS ROAD	0	178	49519	Sealed Network Inspection	Sealed 2 Month	9/02/2022	15/02/2022	21/02/2022	9/02/2022
PARIRI ROAD	0	680	44610	Unsealed Network Inspection	Unsealed 2 Month	10/02/2022	16/02/2022	22/02/2022	10/02/2022
PAUA ROAD	0	6253	46213	Unsealed Network Inspection	Unsealed 1 Month	4/02/2022	9/02/2022	14/02/2022	4/02/2022
PAWARENGA ROAD	0	7661	46256	Sealed Network Inspection	Sealed 1 Month	14/02/2022	17/02/2022	22/02/2022	
PAWARENGA ROAD	7661	19191	45541	Unsealed Network Inspection	Unsealed 1 Month	11/02/2022	16/02/2022	21/02/2022	
PEKAMA DRIVE	0	595	49740	Sealed Network Inspection	Sealed 2 Month	16/02/2022	22/02/2022	28/02/2022	
PEKERAU ROAD	0	9067	45447	Unsealed Network Inspection	Unsealed 1 Month	10/02/2022	15/02/2022	18/02/2022	10/02/2022
PENINSULAR PARADE	0	517	46987	Sealed Network Inspection	Sealed 2 Month	16/02/2022	22/02/2022	28/02/2022	
PERIA ROAD	0	6561	45058	Unsealed Network Inspection	Unsealed 1 Month	27/01/2022	2/02/2022	8/02/2022	27/01/2022
PERIA VALLEY ROAD	0	10463	44715	Unsealed Network Inspection	Unsealed 1 Month	28/01/2022	3/02/2022	9/02/2022	28/01/2022

Road	Start	End	Asset ID	Cyc Act Type	Cyc Act Freq	First Date Okay	Due Date	Last Date Okay	Completed Date
PIRIKAHA ROAD	0	850	44670	Unsealed Network Inspection	Unsealed 2 Month	16/02/2022	22/02/2022	28/02/2022	
POHUTUKAWA DRIVE	0	182	49686	Sealed Network Inspection	Sealed 2 Month	16/02/2022	22/02/2022	28/02/2022	
POTAHI ROAD	182	625	46384	Unsealed Network Inspection	Unsealed 1 Month	4/02/2022	9/02/2022	14/02/2022	4/02/2022
POWELLS ROAD	0	445	49571	Sealed Network Inspection	Sealed 2 Month	16/02/2022	22/02/2022	28/02/2022	
PROTEA DRIVE	0	157	49742	Sealed Network Inspection	Sealed 2 Month	16/02/2022	22/02/2022	28/02/2022	
PUCKEY AVENUE	0	666	43904	Sealed Network Inspection	Sealed 1 Month	4/02/2022	10/02/2022	15/02/2022	4/02/2022
PUHATA ROAD	0	4578	44825	Unsealed Network Inspection	Unsealed 2 Month	10/02/2022	16/02/2022	22/02/2022	10/02/2022
PUKEPOTO ROAD (KAITAIA)	0	1598	44020	Sealed Network Inspection	Sealed 1 Month	4/02/2022	10/02/2022	15/02/2022	4/02/2022
PUKETITI DRIVE	0	825	44669	Unsealed Network Inspection	Unsealed 1 Month	27/01/2022	2/02/2022	8/02/2022	28/01/2022
PUKEWHAI ROAD	0	2019	46464	Unsealed Network Inspection	Unsealed 1 Month	10/02/2022	15/02/2022	18/02/2022	10/02/2022
PUPUKE MANGAPA ROAD	0	2995	44105	Sealed Network Inspection	Sealed 1 Month	4/02/2022	10/02/2022	15/02/2022	8/02/2022
PUPUKE MANGAPA ROAD	2995	11500	44137	Unsealed Network Inspection	Unsealed 1 Month	4/02/2022	10/02/2022	15/02/2022	8/02/2022
QUARRY ROAD (AWANUI)	0	3646	43979	Sealed Network Inspection	Sealed 1 Month	9/02/2022	14/02/2022	17/02/2022	9/02/2022
QUARRY ROAD (AWANUI)	3646	6098	43983	Unsealed Network Inspection	Unsealed 1 Month	9/02/2022	14/02/2022	17/02/2022	9/02/2022
RAKAUTAPU ROAD	50	8282	46305	Unsealed Network Inspection	Unsealed 1 Month	3/02/2022	8/02/2022	11/02/2022	3/02/2022
RAMP ROAD	0	1663	45554	Unsealed Network Inspection	Unsealed 1 Month	10/02/2022	15/02/2022	18/02/2022	10/02/2022
RANGI POINT ROAD	0	7296	46359	Unsealed Network Inspection	Unsealed 1 Month	7/02/2022	10/02/2022	15/02/2022	8/02/2022
RANGIKOHU ROAD (EPIKAURI ROAD)	0	1660	45590	Unsealed Network Inspection	Unsealed 1 Month	11/02/2022	16/02/2022	21/02/2022	
RANGIPUTA ROAD	0	7450	46443	Sealed Network Inspection	Sealed 1 Month	11/02/2022	16/02/2022	21/02/2022	11/02/2022
RARAWA BEACH ROAD	0	3583	46409	Unsealed Network Inspection	Unsealed 1 Month	4/02/2022	9/02/2022	14/02/2022	4/02/2022
REDAN ROAD	0	1065	44924	Sealed Network Inspection	Sealed 1 Month	1/02/2022	4/02/2022	10/02/2022	1/02/2022

Road	Start	End	Asset ID	Cyc Act Type	Cyc Act Freq	First Date Okay	Due Date	Last Date Okay	Completed Date
REDAN TERRACE	0	152	44914	Sealed Network Inspection	Sealed 1 Month	1/02/2022	4/02/2022	10/02/2022	1/02/2022
ROMA ROAD	0	2423	43882	Sealed Network Inspection	Sealed 1 Month	4/02/2022	10/02/2022	15/02/2022	4/02/2022
ROTOKAWAU ROAD	0	2199	45545	Unsealed Network Inspection	Unsealed 1 Month	4/02/2022	9/02/2022	14/02/2022	4/02/2022
RUAROA ROAD	0	6622	44761	Unsealed Network Inspection	Unsealed 1 Month	28/01/2022	3/02/2022	9/02/2022	28/01/2022
RUATO ROAD	0	247	44859	Sealed Network Inspection	Sealed 1 Month	4/02/2022	10/02/2022	15/02/2022	4/02/2022
RUNARUNA ROAD	0	9376	45548	Unsealed Network Inspection	Unsealed 1 Month	7/02/2022	10/02/2022	15/02/2022	8/02/2022
SALEYARD AVENUE	0	431	46239	Unsealed Network Inspection	Unsealed 1 Month	3/02/2022	8/02/2022	11/02/2022	8/02/2022
SANDHILLS ROAD	0	2261	45055	Sealed Network Inspection	Sealed 1 Month	4/02/2022	10/02/2022	15/02/2022	4/02/2022
SANDHILLS ROAD	2261	15570	44023	Unsealed Network Inspection	Unsealed 1 Month	4/02/2022	10/02/2022	15/02/2022	4/02/2022
SAWYER ROAD	0	6351	44751	Unsealed Network Inspection	Unsealed 1 Month	28/01/2022	3/02/2022	9/02/2022	28/01/2022
SEAVIEW ROAD (CABLE BAY)	0	388	49733	Sealed Network Inspection	Sealed 2 Month	16/02/2022	22/02/2022	28/02/2022	
SETTLEMENT WAY	0	517	47056	Unsealed Network Inspection	Unsealed 2 Month	10/02/2022	16/02/2022	22/02/2022	10/02/2022
SHEPHERD ROAD (FERN FLAT)	0	2251	44666	Unsealed Network Inspection	Unsealed 2 Month	11/02/2022	17/02/2022	23/02/2022	11/02/2022
SIMMENTAL LANE	0	1344	44927	Unsealed Network Inspection	Unsealed 2 Month	16/02/2022	22/02/2022	28/02/2022	
SIMON URLICH ROAD	0	542	45460	Sealed Network Inspection	Sealed 1 Month	10/02/2022	15/02/2022	18/02/2022	10/02/2022
SIMON URLICH ROAD	542	1438	49387	Sealed Network Inspection	Sealed 2 Month	9/02/2022	15/02/2022	21/02/2022	9/02/2022
SMITH ROAD (HEREKINO)	0	2807	44843	Unsealed Network Inspection	Unsealed 2 Month	10/02/2022	16/02/2022	22/02/2022	10/02/2022
SNELGAR ROAD	0	4774	44854	Unsealed Network Inspection	Unsealed 1 Month	28/01/2022	3/02/2022	9/02/2022	28/01/2022
SPAINS ROAD	0	1985	46432	Sealed Network Inspection	Sealed 1 Month	7/02/2022	10/02/2022	15/02/2022	8/02/2022
SPAINS ROAD	1985	4800	46206	Unsealed Network Inspection	Unsealed 1 Month	7/02/2022	10/02/2022	15/02/2022	8/02/2022
SPIRITS BAY ROAD	0	9136	45540	Unsealed Network Inspection	Unsealed 1 Month	16/02/2022	21/02/2022	24/02/2022	

Road	Start	End	Asset ID	Cyc Act Type	Cyc Act Freq	First Date Okay	Due Date	Last Date Okay	Completed Date
ST JOHNS ROAD	0	85	49708	Sealed Network Inspection	Sealed 2 Month	16/02/2022	22/02/2022	28/02/2022	
STRATFORD DRIVE	0	1080	49669	Sealed Network Inspection	Sealed 2 Month	16/02/2022	22/02/2022	28/02/2022	
SULENTA LOOP ROAD	0	1138	46353	Sealed Network Inspection	Sealed 1 Month	7/02/2022	10/02/2022	15/02/2022	8/02/2022
SUNRISE PLACE	0	149	49730	Sealed Network Inspection	Sealed 2 Month	16/02/2022	22/02/2022	28/02/2022	
SWEETWATER ROAD	1302	2634	45521	Unsealed Network Inspection	Unsealed 1 Month	7/02/2022	10/02/2022	15/02/2022	8/02/2022
TAAFFE STREET	0	140	43900	Sealed Network Inspection	Sealed 1 Month	4/02/2022	10/02/2022	15/02/2022	4/02/2022
TAEMARO ROAD	0	4769	44697	Unsealed Network Inspection	Unsealed 1 Month	28/01/2022	3/02/2022	9/02/2022	28/01/2022
TAIPA HEIGHTS DRIVE	0	730	49481	Sealed Network Inspection	Sealed 2 Month	16/02/2022	22/02/2022	28/02/2022	16/12/2021
TAIPA HEIGHTS DRIVE	730	1970	44569	Unsealed Network Inspection	Unsealed 1 Month	27/01/2022	2/02/2022	8/02/2022	28/01/2022
TAIPA POINT ROAD	0	340	44625	Sealed Network Inspection	Sealed 1 Month	11/02/2022	16/02/2022	21/02/2022	11/02/2022
TAIPA TIDES DRIVE	0	100	49721	Sealed Network Inspection	Sealed 2 Month	16/02/2022	22/02/2022	28/02/2022	
TAIPA VIEW ROAD	0	1187	49576	Sealed Network Inspection	Sealed 2 Month	10/02/2022	16/02/2022	22/02/2022	10/02/2022
TAKAHE ROAD	0	1272	43925	Sealed Network Inspection	Sealed 1 Month	4/02/2022	10/02/2022	15/02/2022	4/02/2022
TAKAHUE ROAD	0	7553	44781	Sealed Network Inspection	Sealed 1 Month	27/01/2022	2/02/2022	8/02/2022	27/01/2022
TAPOTUPOTU ROAD	0	2563	46381	Unsealed Network Inspection	Unsealed 1 Month	4/02/2022	10/02/2022	15/02/2022	4/02/2022
TARATARA ROAD	0	4785	45202	Unsealed Network Inspection	Unsealed 1 Month	1/02/2022	4/02/2022	10/02/2022	1/02/2022
TASMAN HEIGHTS	0	335	43887	Sealed Network Inspection	Sealed 1 Month	4/02/2022	10/02/2022	15/02/2022	4/02/2022
TATANA ROAD	0	761	44883	Unsealed Network Inspection	Unsealed 2 Month	10/02/2022	16/02/2022	22/02/2022	10/02/2022
TAUMATA ROAD	0	6047	44609	Unsealed Network Inspection	Unsealed 1 Month	11/02/2022	16/02/2022	21/02/2022	11/02/2022
TAUPO BAY ROAD	0	11022	44845	Sealed Network Inspection	Sealed 1 Month	1/02/2022	4/02/2022	10/02/2022	1/02/2022
TAURANGA BAY BEACH ROAD	0	553	44737	Sealed Network Inspection	Sealed 1 Month	4/02/2022	10/02/2022	15/02/2022	4/02/2022

Road	Start	End	Asset ID	Cyc Act Type	Cyc Act Freq	First Date Okay	Due Date	Last Date Okay	Completed Date
TAURANGA BAY ROAD	2550	3018	44878	Unsealed Network Inspection	Unsealed 1 Month	4/02/2022	10/02/2022	15/02/2022	4/02/2022
TAYLOR ROAD	0	2834	44662	Unsealed Network Inspection	Unsealed 1 Month	27/01/2022	2/02/2022	8/02/2022	28/01/2022
TE AHU ROAD	0	5380	46342	Unsealed Network Inspection	Unsealed 1 Month	4/02/2022	9/02/2022	14/02/2022	4/02/2022
TE HAPUA ROAD	0	10538	45564	Unsealed Network Inspection	Unsealed 1 Month	4/02/2022	10/02/2022	15/02/2022	4/02/2022
TE HUAHUA ROAD	0	1880	46228	Unsealed Network Inspection	Unsealed 1 Month	3/02/2022	8/02/2022	11/02/2022	3/02/2022
TE KAROA ROAD	0	2713	46034	Unsealed Network Inspection	Unsealed 2 Month	11/02/2022	17/02/2022	23/02/2022	11/02/2022
TE MOHO ROAD	0	368	44793	Unsealed Network Inspection	Unsealed 2 Month	9/02/2022	15/02/2022	21/02/2022	9/02/2022
TE PAKI STREAM ROAD	0	3738	45566	Unsealed Network Inspection	Unsealed 1 Month	4/02/2022	10/02/2022	15/02/2022	4/02/2022
TE REINGA STREET	0	153	43953	Sealed Network Inspection	Sealed 1 Month	4/02/2022	10/02/2022	15/02/2022	4/02/2022
TE RORE ROAD	0	7946	44789	Unsealed Network Inspection	Unsealed 1 Month	27/01/2022	2/02/2022	8/02/2022	27/01/2022
TEPENE TABLELANDS ROAD	0	2369	45059	Unsealed Network Inspection	Unsealed 1 Month	4/02/2022	10/02/2022	15/02/2022	4/02/2022
TIPA TIPA ROAD	0	7874	44853	Unsealed Network Inspection	Unsealed 1 Month	27/01/2022	2/02/2022	8/02/2022	1/02/2022
TOKERAU BEACH ROAD	0	2747	45425	Sealed Network Inspection	Sealed 1 Month	10/02/2022	15/02/2022	18/02/2022	10/02/2022
TOTARA NORTH ROAD	0	3041	44718	Sealed Network Inspection	Sealed 1 Month	1/02/2022	4/02/2022	10/02/2022	1/02/2022
TOTARA SCHOOL ROAD (TOTARA NORTH)	0	322	44709	Unsealed Network Inspection	Unsealed 1 Month	1/02/2022	4/02/2022	10/02/2022	1/02/2022
TURNER STREET	0	620	44215	Sealed Network Inspection	Sealed 1 Month	9/02/2022	14/02/2022	17/02/2022	9/02/2022
TURVEY ROAD	0	1188	44815	Sealed Network Inspection	Sealed 1 Month	28/01/2022	3/02/2022	9/02/2022	28/01/2022
UNAHI ROAD	0	2105	46427	Sealed Network Inspection	Sealed 1 Month	7/02/2022	10/02/2022	15/02/2022	8/02/2022
UNAHI ROAD	2105	2911	46231	Unsealed Network Inspection	Unsealed 1 Month	7/02/2022	10/02/2022	15/02/2022	8/02/2022
VICTORIA VALLEY ROAD	0	1867	44775	Unsealed Network Inspection	Unsealed 1 Month	28/01/2022	3/02/2022	9/02/2022	28/01/2022
VIRTUE CRESCENT	0	688	45431	Sealed Network Inspection	Sealed 1 Month	10/02/2022	15/02/2022	18/02/2022	10/02/2022

Road	Start	End	Asset ID	Cyc Act Type	Cyc Act Freq	First Date Okay	Due Date	Last Date Okay	Completed Date
WAINUI ROAD	0	15645	45347	Sealed Network Inspection	Sealed 1 Month	4/02/2022	10/02/2022	15/02/2022	4/02/2022
WAINUI VALLEY ROAD	0	1333	45077	Unsealed Network Inspection	Unsealed 1 Month	4/02/2022	10/02/2022	15/02/2022	4/02/2022
WAINUI-MATAURI BAY ROAD	0	6761	45356	Sealed Network Inspection	Sealed 1 Month	4/02/2022	10/02/2022	15/02/2022	4/02/2022
WAIOTEHUE ROAD	0	374	49449	Sealed Network Inspection	Sealed 2 Month	9/02/2022	15/02/2022	21/02/2022	11/02/2022
WAIPAPAKAURI DOMAIN ROAD	281	521	46407	Unsealed Network Inspection	Unsealed 1 Month	7/02/2022	10/02/2022	15/02/2022	8/02/2022
WAIRAHORAHO ROAD	0	1550	46425	Unsealed Network Inspection	Unsealed 2 Month	10/02/2022	16/02/2022	22/02/2022	10/02/2022
WAIROA STREAM ROAD	0	465	46891	Unsealed Network Inspection	Unsealed 2 Month	10/02/2022	16/02/2022	22/02/2022	11/02/2022
WALKER ROAD	0	805	46411	Unsealed Network Inspection	Unsealed 1 Month	7/02/2022	10/02/2022	15/02/2022	8/02/2022
WALLACE ROAD (LAKE OHIA)	0	1892	46512	Unsealed Network Inspection	Unsealed 2 Month	10/02/2022	16/02/2022	22/02/2022	10/02/2022
WALTERS WAY	0	152	49712	Sealed Network Inspection	Sealed 2 Month	16/02/2022	22/02/2022	28/02/2022	
WARAWARA FOREST ROAD	0	718	46877	Unsealed Network Inspection	Unsealed 2 Month	10/02/2022	16/02/2022	22/02/2022	10/02/2022
WATERFRONT ROAD (HOUHORA HEADS)	648	1277	47510	Unsealed Network Inspection	Unsealed 1 Month	3/02/2022	8/02/2022	11/02/2022	8/02/2022
WATERFRONT ROAD (MANGONUI)	0	1259	44583	Sealed Network Inspection	Sealed 1 Month	28/01/2022	3/02/2022	9/02/2022	28/01/2022
WEBER ROAD	0	2644	44146	Unsealed Network Inspection	Unsealed 1 Month	9/02/2022	14/02/2022	17/02/2022	9/02/2022
WEBER WAIHAPA ROAD	0	5392	43601	Unsealed Network Inspection	Unsealed 1 Month	9/02/2022	14/02/2022	17/02/2022	9/02/2022
WELLS ROAD	0	2093	44849	Unsealed Network Inspection	Unsealed 1 Month	27/01/2022	2/02/2022	8/02/2022	27/01/2022
WEST COAST ROAD (KOHUKOHU)	0	12351	46356	Sealed Network Inspection	Sealed 1 Month	3/02/2022	8/02/2022	11/02/2022	3/02/2022
WEST COAST ROAD (KOHUKOHU)	12351	25167	46396	Sealed Network Inspection	Sealed 1 Month	10/02/2022	15/02/2022	18/02/2022	11/02/2022
WEST COAST ROAD (KOHUKOHU)	25167	39720	46364	Unsealed Network Inspection	Unsealed 1 Month	14/02/2022	17/02/2022	22/02/2022	
WEST COAST ROAD (LAKE NGATU)	0	5220	46414	Sealed Network Inspection	Sealed 1 Month	4/02/2022	9/02/2022	14/02/2022	4/02/2022
WEST COAST ROAD (LAKE NGATU)	5220	5342	45981	Unsealed Network Inspection	Unsealed 1 Month	4/02/2022	9/02/2022	14/02/2022	4/02/2022

Road	Start	End	Asset ID	Cyc Act Type	Cyc Act Freq	First Date Okay	Due Date	Last Date Okay	Completed Date
WHALE CRESCENT	0	94	49504	Sealed Network Inspection	Sealed 2 Month	9/02/2022	15/02/2022	21/02/2022	9/02/2022
WHALERS ROAD	0	548	46304	Sealed Network Inspection	Sealed 1 Month	3/02/2022	8/02/2022	11/02/2022	8/02/2022
WHALERS ROAD	1341	2088	46401	Unsealed Network Inspection	Unsealed 1 Month	3/02/2022	8/02/2022	11/02/2022	8/02/2022
WHANGAPE ROAD	0	1318	49670	Sealed Network Inspection	Sealed 2 Month	10/02/2022	16/02/2022	22/02/2022	
WHANGAPE ROAD	1318	13351	45567	Unsealed Network Inspection	Unsealed 1 Month	11/02/2022	16/02/2022	21/02/2022	14/02/2022
WHANGAROA ROAD	0	6304	44750	Sealed Network Inspection	Sealed 1 Month	1/02/2022	4/02/2022	10/02/2022	1/02/2022
WHANGATANE DRIVE	0	388	43633	Sealed Network Inspection	Sealed 1 Month	9/02/2022	14/02/2022	17/02/2022	11/02/2022
WHATUWHIWHI ROAD	0	532	44588	Unsealed Network Inspection	Unsealed 1 Month	11/02/2022	16/02/2022	21/02/2022	11/02/2022
WHATUWHIWHI ROAD (NORTH)	0	1061	46317	Sealed Network Inspection	Sealed 1 Month	11/02/2022	16/02/2022	21/02/2022	11/02/2022
WHATUWHIWHI ROAD (NORTH)	1061	1852	46309	Unsealed Network Inspection	Unsealed 1 Month	11/02/2022	16/02/2022	21/02/2022	11/02/2022
WHITECAPS LANE	0	118	47064	Sealed Network Inspection	Sealed 2 Month	16/02/2022	22/02/2022	28/02/2022	
WHITNEY LANE	0	124	50014	Sealed Network Inspection	Sealed 2 Month	10/02/2022	16/02/2022	22/02/2022	10/02/2022
WIRELESS ROAD	0	2376	43997	Sealed Network Inspection	Sealed 1 Month	9/02/2022	14/02/2022	17/02/2022	9/02/2022
WIRELESS ROAD	2376	2848	43993	Unsealed Network Inspection	Unsealed 1 Month	9/02/2022	14/02/2022	17/02/2022	9/02/2022
WRATHALL ROAD	0	535	44742	Sealed Network Inspection	Sealed 1 Month	28/01/2022	3/02/2022	9/02/2022	28/01/2022
WRECK BAY ROAD	0	586	43899	Unsealed Network Inspection	Unsealed 1 Month	4/02/2022	10/02/2022	15/02/2022	4/02/2022



Figure 4: Oruru Rd Rehabilitation Site 2 Headwall Construction



Figure 5: Oruru Rd Rehabilitation Site 2 Stabilising



Figure 6: Oruru Rd Rehabilitation Site 2 Stabilising



Figure 7: Oruru Rd Rehabilitation Site 2 Stabilising



Figure 8: Oruru Rd Rehabilitation Site 1 Pavement Tie-ins

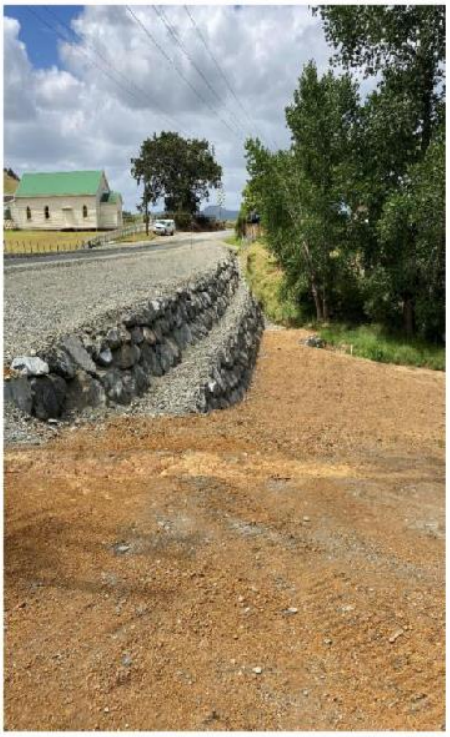


Figure 9: Oruru Rd Rehabilitation Site 1 Rockwall Widening Complete



Figure 10: Oruru Rd Rehabilitation Site 1 Pavement Overlay



Figure 11: Brass Rd Seal Extension Drainage Works



Figure 12: Brass Rd Seal Extension Drainage Works



Figure 13: Brass Rd Seal Extension Drainage Works



Figure 14: Brass Rd Seal Extension Drainage Works



Figure 15: Parapara Toatoa Rd Seal Extension Clearing



Figure 16: Parapara Toatoa Rd Seal Extension Clearing

HEALTH & SAFETY

No injuries this month.

Type	# during period	# to date	Days since last incident
Lost time injury (LTI)	0	2	446
Medical Treatment Case (MTC)	0	1	56
First Aid Injury (FAI)	0	0	1253

QUALITY AND TRAINING

Environmental non-compliance notices issued

- Nil non-compliances to report.

Notice to Contractor issued

- NTC 94 Dust Suppressant Sites
- NTC 95 Extension of Time 2021/22 Seal Extensions

Training

- Nil

RAMM Issue for the month

- Nil

RFS Report

- Not received from Council

FEEDBACK

Date: January 2021

Subject: Positive Feedback

Overhanging Vegetation

Awesome job guys, thanks.

FEBRUARY PROGRAMME

Maintenance activities programmed for February 2022 relate to routine sealed and unsealed maintenance activities such as sealed and unsealed potholes, signs and drainage. Grading, metaling and mowing activities are deferred until weather conditions are more favourable. Ordered works activities include the following:

- Peria Road Seal Extension Slip Repair RP4100
- Oruru Road Pavement Rehabilitation 1 Stabilisation and Seal
- Oruru Road Pavement Rehabilitation 2 Stabilisation and Seal
- Parapara Toatoa Rd Seal Extension – Drainage and Pavement works
- Brass Rd Seal Extension – Drainage and Pavement works
- Kohukohu Rd Pavement Rehabilitation – Commence enabling works

NZ TRANSPORT AGENCY (WAKA KOTAHI) - NORTHLAND ACTIVITY UPDATE

Activity	2021-24 NLTP	Completion	Progress	Commentary
State highway maintenance, operations and renewals	$91.5M	0%	Amber	Waka Kotahi and its contractor has agreed on the final program. A total of 168 lane kilometres will be delivered, which is more than the previous year. The construction season started in September 2021 and a total of five kilometres of the program has been delivered. Weather has had a delay to the program, but we are confident that we will complete in early 2022.
Low Cost / Low Risk	$5.3M	95%	Green	**Far North District Council Projects** SH10 Bush Point works - repairs to be carried out this year. SH12 Omapere to Opononi (3km) - Detailed Design for Stage 1 completed and survey completed for whole route. Awaiting confirmation of funding to proceed to physical works. SH1 Kawakawa Pedestrian Crossing - A raised platform and pedestrian crossing to the east of the township has been implemented by Waka Kotahi with the FNDC Innovative Streets Project team. Mangamuka Gorge: Currently open to all traffic. Final works are to be undertaken this spring. SH1 Mangamuka Gorge | NZ Transport Agency

Activity	2021-24 NLTP	Completion	Progress	Commentary
SH1: Dome Valley Safety Improvements	$31.7M	Early 2022	Green	Work continues in stages 3 and 5, either side of the Dome peak. This work is planned to be completed in early 2022 SH1 Dome Valley | NZ Transport Agency
Northland speed review		2022	Green	Public engagement on 11 corridors of state highway (9 in Northland, 2 in north Auckland) closed in June 2021. Summary of the engagement process and feedback: Northland and north Auckland speed reviews engagement summary (nzta.govt.nz) Waka Kotahi expects our conversations with our partners, stakeholders and communities about safer speeds in Northland to continue in the coming weeks and months. These speed reviews form part of our work towards Vision Zero – an Aotearoa where no one is killed or seriously injured on our roads.
SH1 Whangārei to Wellsford Standard Safety Intervention (Road to Zero)	$4M	Underway	Green	Pre-implementation underway for Central (Port Marsden Highway to Schultz Road) and Southern (Piroa Stream Bridge to Wellsford), including topographical, geotechnical and ecological investigations. Conversations and briefings with key stakeholders, communities and affected landowners are underway, including engagement with the Waipū community regarding intersections near the township. Some light construction (flexible median barriers, wider centrelines, side safety barriers) will commence early 2022, with main construction expected to commence mid-2022 (subject to funding and approvals). SH1 Whangarei to Wellsford | NZ Transport Agency
SH1 Warkworth to Wellsford		Route protection	Green	On 25 March Auckland Council granted resource consents, subject to conditions, for the Warkworth to Wellsford project. Waka Kotahi confirmed the NoR on 11 May 2021. The appeal period for the NoR closed on 1 July 2021 and several appeals have been filed with the Environment Court. Both resource consent and NoR appeals will now progress via usual Environment Court process. Once the Environment Court process has concluded Waka Kotahi will provide further information on the outcome of this process.

Activity	2021-24 NLTP	Completion	Progress	Commentary
				Completing the route projection phase for this project will provide long term certainty for property owners, adjacent communities and the wider region. Waka Kotahi does not anticipate any works on the corridor commencing this decade. SH1 Warkworth to Wellsford
SH1 Whangārei to Te Hana **1. Whangārei to Port Marsden Highway - NZ Upgrade Programme** **2. Port Marsden Highway to Te Hana**		TBC		The Government has instructed Waka Kotahi to implement a new option for the corridor that focuses on safety improvements along the existing state highway, and the construction of a new rail line to Northport. The new option will support Northland's economic growth, improve supply chain resilience, reduce emissions and improve road safety. The current proposal to upgrade State Highway 1 to four lanes will not continue. Waka Kotahi and KiwiRail are now working together to further develop these projects for consideration by ministers. This will include confirming the scope, costs and timelines for the re-scoped projects, as well as carrying out economic analysis. The significant work already completed for the four-laning project will inform this development work. Consultation on safety improvements on the corridor was undertaken in November 2021 and an engagement report has been prepared. SH1 Whangārei to Port Marsden Highway safety improvements | Whangarei to Te Hana | NZ Transport Agency | Whangarei to Port Marsden Highway
SH1 Loop Road Safety improvements	$49.65M	TBC	Amber	With the recent changes to the NZ Upgrade Programme, the next steps for completing the southern works (new two-lane bridge and southbound taper lane) for the Loop Road project are currently being worked through. The Loop Road intersection will continue to operate as a single lane roundabout until a new bridge over Otaika Stream is constructed to take the additional southbound lane. Some road pavement work was completed prior to Christmas and further finishing works for stage 1 will be completed in the first half of 2022. SH1 Loop Road Safety Improvements

Activity	2021-24 NLTP	Completion	Progress	Commentary
SH10 Kaeo bridge	$40M	Early 2024	Green	Construction has commenced, with initial works focused on preloading and earthworks on the western approach and widening the road at the site of the planned roundabout to give crews space to work on the eastern bridge abutment. Traffic will be one-way through the site for the duration of the project, with ongoing traffic management measures. Kaeo Bridge | NZ Transport Agency
SH10 Waipapa corridor improvements	$24.5M	Early 2022	Green	Minor defects are being worked through, including modifications to the traffic islands and sealing of car park outside liquor store on SH10. SH10 Waipapa Corridor Improvements | NZ Transport Agency
SH1/11 Kawakawa intersection improvements (NZ Upgrade Programme)	$6M	Early 2022	Green	Traffic is flowing through operating roundabout and works are complete. Completion event with Minister has been rescheduled for 13 May. Cultural design elements (pou, wall carvings) have been designed and constructed with Ngāti Hine and are being completed and will be installed for unveiling at the event. SH1/SH11 Kawakawa intersection improvements | Waka Kotahi NZ Transport Agency (nzta.govt.nz)



3 WATERS OPERATIONS

Water, wastewater and storm water in alliance with Far North Waters. To enable an integrated and flexible approach to Water Management.

EXECUTIVE SUMMARY

- **RFS**: 304 Request for Service (RFS) call outs in January, up from 293 in Dec, and down from 336 in Nov
- **HR**: Summer annual leave plan in place in January, including Admin support shut down until mid-January
- **Preventive maintenance**: 89% (102 of 115 jobs completed)
- **Reactive Renewals:** A total of 12 RRW's were raised in the month of January
- **Spill response:** Hope Av Pump station, Russell, Minor spill reported on Sunday the 30th of January due to power outage.
- **COVID Response:** Traffic light RED until the 21st of Jan when it was changed to Orange for 3 Days where the government reverted to all of NZ being Red. Several plans have been developed to ensure that business continuity is managed and to ensure, as far as possible, the safety and integrity of the various work crews throughout the FNW organization. This will involve many staff working from home, and the development of "working bubbles" in the field teams to attempt to prevent widespread outbreak throughout the business, and potential effects of staff shortages due to having to isolate at home.
- **IANZ Laboratory Audit** will be done remotely as IANZ will not visit sites where full vaccination status cannot be confirmed under Red Light settings.
- **Support for Consultant:** FNW assists FNDC for Water Safety Plans, Water outlook projects, SCADA/Telemetry upgrade, Flow gauge monitoring, Pump station drawdown, etc.

OPERATIONS & MAINTENANCE – WATER, STORMWATER AND WASTEWATER RETICULATION

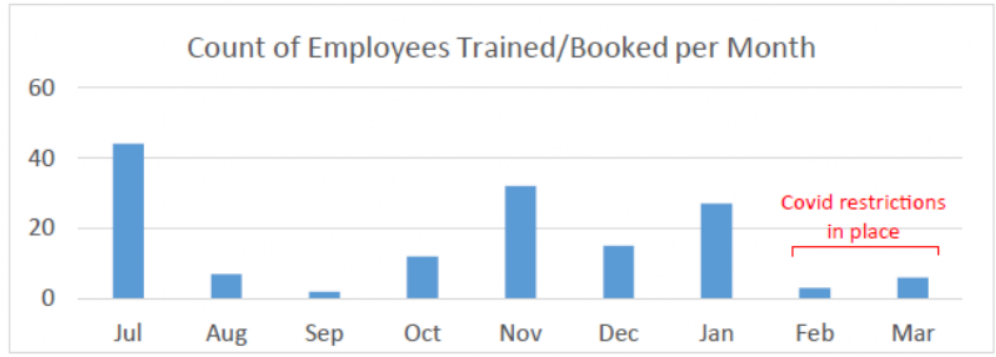
- **East Coast Pump Stations:** There are six Pump Stations running with only 1 pump, when normally it should have Two. Upon delivery pumps will be installed under RRW where applicable.
- **Waitangi Major PS, Haruru Major, Paihia:** These Two pump stations and the associated work are a major concern and are of a priority nature. These pump stations require a full audit to determine the level of risk and the likelihood of significant infrastructure and equipment failure and the resultant effect on the area
- **Far North Drainage Area channel spraying:** Continuing from the delays in commencing of the spraying program due to Covid 19 restrictions, the previous inclement weather and resultant wet ground conditions restricting safe access for efficient/effective spraying. The subsequent extensive ground fires in the Far North region have also reduced the areas for which access is currently allowed.
- **Leak Detection Programme:** The leak detection has commenced with some notable finds along the Omanaia to Rawene line being detected and repaired. Leaks within the Rawene township reticulation system have also been located and repaired. Leak detection within Rawene is ongoing due to the suspected damage that may have been caused by directional drilling in the area.

Water & Wastewater Treatment

- **Kaitaia WTP:** Awanui river inlet blocked during last rain event mostly with filamentous algae this has never happened before in the last 16 years.
- **Kaitaia WWTP:** lots of unseasonal dead ducks though upwards of 300 of varying species, but mostly Paradise Ducks, have been removed since the second week in January unfortunately most of these have moulted and cannot fly so bird scaring measures would not have been as effective as previous years, we expect another 3 to four weeks of die off.

TRAINING SCHEDULE

Confined Space, Computer Basics, and Dangerous Goods Endorsement were completed in January.



Upcoming Training

All upcoming training has been put on hold due to Covid-19 restrictions.

FEBUARY - Virtual: Advanced Excel

MARCH - Virtual: NEBOSH

HEALTH AND SAFETY

Safety Lag Indicators													
	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Total
Injury - LTI	0	0	0	0	0	0	0	-	-	-	-	-	0
Injury - MTI	1	1	0	0	0	0	0	-	-	-	-	-	2

Risks and Opportunities

- Risk - Mobile plant and vehicles VOC's - Ongoing
- Covid-19 Traffic Light System

Key Activities:

- Back to Basics Health and Safety with all staff held on the 21st of January
- Regional HSE monthly meeting has been moved to a team's meeting
- Health and Safety Committee monthly meeting held on 26th of January 2022

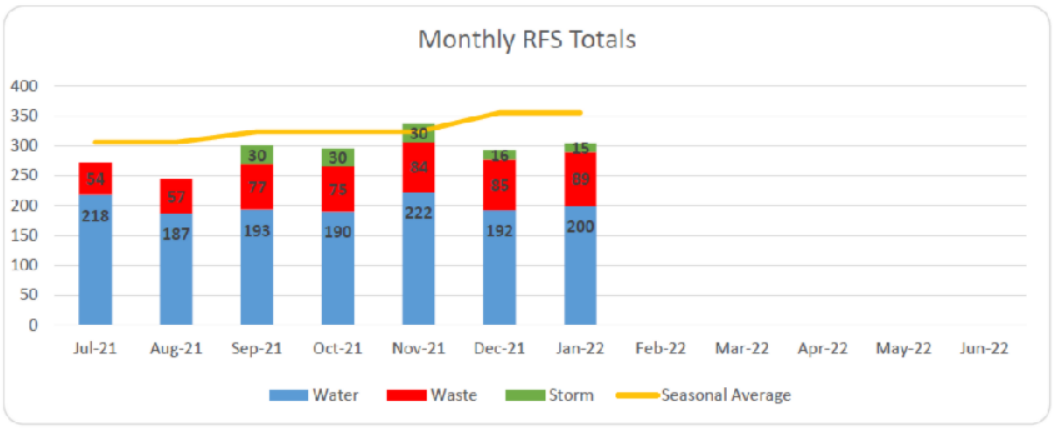
Recommendations:

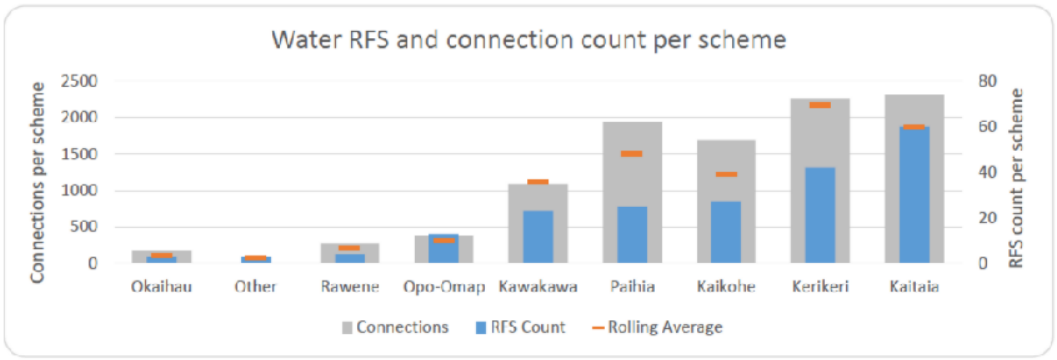
- Ongoing - Focus on managers completing their required CCC's and OCC's.
- Conduct Toolbox talks focused on Critical Risk Protocols (CRPs)

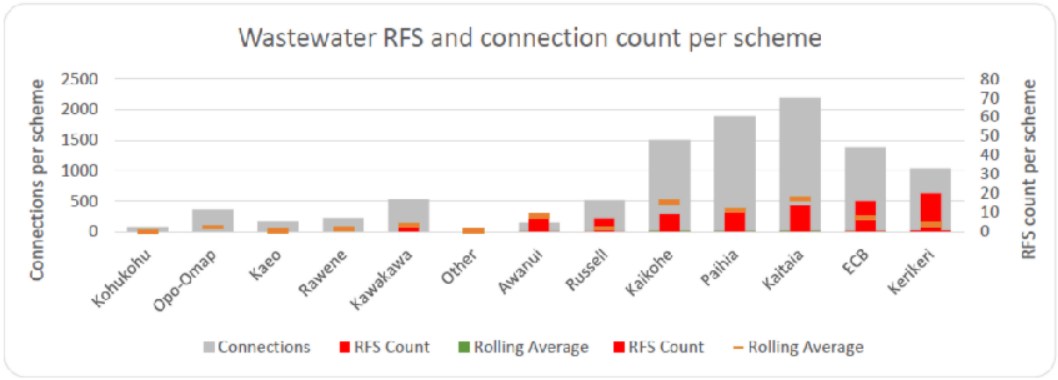
Incident Date	Severity	Description
30/1/2022 04:00am	Utility Strike	Sewer spill at Hope Ave Pump Station following power outage.

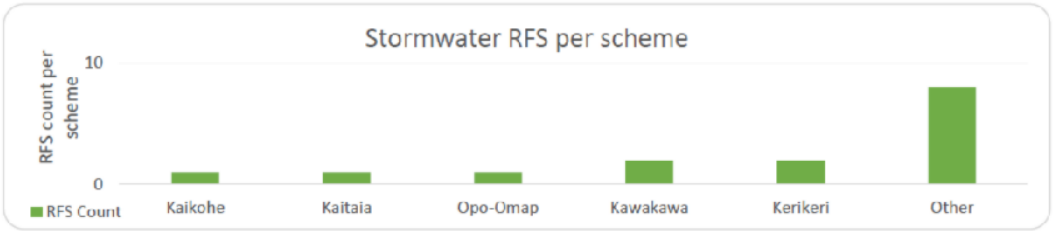
CUSTOMERS

The request for service (RFS) total for January was 304, this is up from 293 in December, and down from 336 in November and 295 in October. This includes 99 RFS's for the North region, and 192 for the South region. The total for January 2021 was 422, 2020 was 510, and 2019 was 398.









DIA REPORT – DECEMBER 2021

Sewerage Overflows Attend / Resolve KPI DIA/LTP/Alliance	Water Urgent Attend/Resolve KPI DIA/LTP/Alliance
Total Sewerage Overflow Submissions	"Water-Urgent" Submissions
13	**3**
Median Attend Time (Hours) DIA 6 (22a) LTP 3.1.3 TARGET <= 2hrs	Median Attend Time (Hours) DIA 3a (30a) LTP 2.1.3 Target <= 2hrs
1.66	**0.79**
Median Resolve Time (Hours) DIA 7 (22b) LTP 3.1.3 TARGET <= 4hrs	Median Resolve Time (Hours) DIA 3b (30b) LTP 2.1.3 Target <= 4hrs
3.51	**5.92**

Sewerage Overflows Attend / Resolve KPI % LTP/Alliance

Attend KPI Met (%) LTP 3.1.5 Target >= 95%

76.92

Resolve KPI Met (%) LTP 3.1.5 Target >= 95%

69.23

Sewerage Non-Urgent Attend/Resolve KPI Alliance

Total "Sewer Non-Urgent" Submissions

6

Sewer Non-Urgent Median Attend Time (Hours) Target <= 24hrs

2.04

Sewer Non-Urgent Median Resolve Time (Hours) Target <= 48hrs

4.36

Dry Weather Overflows per 1000 Connections DIA/LTP/Alliance

No of Dry Weather Overflows

0

Dry Weather Overflows per 1000 Connections DIA a (20) LTP 3.1.1 Target <= 12/annum

0.2588

Sewerage Customer Satisfaction KPI DIA/LTP/Alliance

No of Sewerage Faults/Complaints

31

Complaints per 1000 Connections DIA 8 (23) LTP 3.1.4 Target <= 150/annum

14.41

Water Non-Urgent Attend/Resolve KPI DIA/LTP/Alliance

"Water Non-Urgent" Submissions

154

Median Attend Time (Hours) DIA 3c (30c) LTP 2.1.3 Target <= 48hrs

12.25

Median Resolve Time (Hours) DIA 3d (30d) LTP 2.1.3 Target <= 72hrs

15.17

Water Other - Water Connections Alliance

"Water Other" Submission Connections Only

0

Water Other Resolve Time (Hours) Connections Only Target <= 24hrs

N/A

Water Customer Satisfaction (Quality/Continuity of Supply) DIA/LTP

Water Quality/Continuity Faults

25

Total Water Quality Faults per 1000 DIA 4 LTP 2.1.4 Target <=100/annum

15.52

PROJECTS

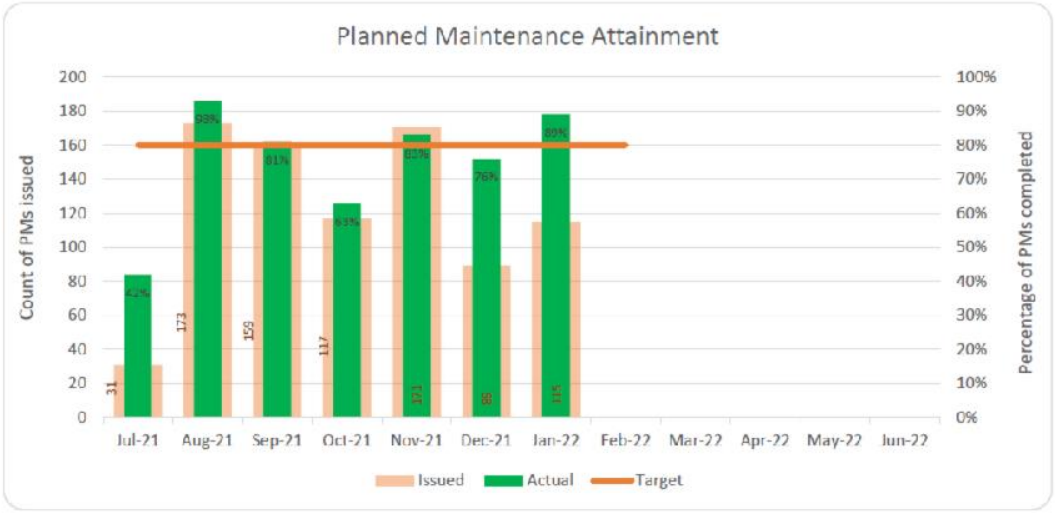
- Projects Division had zero health and safety incidents this month.
- Work volumes are an issue, we have only received a Rawene De Sludge job for planned work for the 2021-2022 financial year. Rawene Stage 2 Sludging we have now received however we are yet to receive any other work from this year's LTP
- Approval for work to get water treatment plants compliant is still an issue
- • Currently preparing to undertake pumps stations assessments
- Kerikeri Intake Tender (approximately $500k) is our current focus

- We have priced the Awanui Intake project where significant erosion has occurred impacting the river intake to the Kaitaia plant, we have been advised consent is not required. Waiting for purchase order
- Paihia WTP intake erosion has been priced and is now awaiting approval
- Monument new supplementary bore is currently being priced; HAZOP has been completed
- Finalising the major material items for the In Line monitoring is almost completed.



RISK and ASSETS

- The 3 Waters business is continuing to operate under Traffic Light Red Level restrictions, with relatively minimal difficulty. The Alliance Pandemic Operating Plan has been amended to reflect the new Traffic Light System
- January saw a slight improvement in the PM attainment with 89% of PM's being closed off. It is suspected that the paperwork for a number of the January PM's is still to be returned, despite the maintenance works having been completed.
- New PM tasks have now been created for wastewater line hydro blasting activities throughout the district.
- Progress has been made, and will continue, on rationalising the asset information currently within MEX in relation to the district wastewater treatment plants. This will enable the development of PM tasks and the issue of work orders for each plant to be generated.



COMPLIANCE

Sites	Asset Group	Status		Comment
		Compliant	Detail	
Ahipara		●	Condition 10 - Faecal Coliforms	• Council is investigating land disposal options at Ahipara. Scoping of options for additional treatment of coliforms has commenced. • Equipment for automated leachate monitoring is being procured. This will enable more precise control of leachate.
Hihi		●	Non - Compliant - NH4-N	• The project to upgrade plant is in its initiation phase. • The downstream NH4-N exceeded 1.6g/m3. There was a similar breach in January 21 suggesting this is caused by summer low flows. This can be addressed in the design of the new treatment plant. • Special summer E.coli monitoring has commenced as required by consent conditions. E.coli levels are compliant.
Kaikohe		●	Non-Compliant NH4-N	• Consent renewal application has been lodged. • Downstream monitoring results for NH4 – N breached consent conditions in early January. This was back within consent limits by late January.
Kerikeri		●	Non-Compliant	• 50%ile E.Coli non-compliant since 11.01.22 result. This is likely due to an 860 result in August when a membrane ripped.
Opononi		●	Non-compliant - Condition 19 – E.Coli and ammonia.	• Wetland restoration completed in October. E.coli has reduced from 10863 MPN to 3076 MPN but is not yet in compliant range <3000MPN. • Resource Consent renewal in process
Paihia		●	Non-Compliant - ammonia	• The last 12 samples for both 50%ile and 90%ile NH4-N have breached consent limit • Desludging is proposed for this year
Rangiputa		-	NA	• No data – plant inaccessible due to illegally parked boat trailer
Russell		●	Non-compliant	• Water Quality compliant this month • Non-compliance relates to outstanding reporting and monitoring. • IAM Team Lead liaising with NRC and FNW about current abatement • Asset Managers have scheduled several improvements: Inlet Works (screen) UV Unit Replacement, New or Refurbished disposal bores, Pond liner replacement.
Taipa		●	Non-compliant – ammonia and faecal	• Desludging of lagoon 2 in October temporarily affected processing of ammonia. The ammonia trend improved from 28.1g/m3 in October to 9.89g/m3 in December then back to 16.4 in January. The consent limit is 5g/m3. • Faecal coliforms improved after desludging but deteriorated to 2000 cfu/100ml in mid-January. • CWL restoration plan is being developed

Sites	Asset Group	Status		Comment
		Compliant	Detail	
Whatuwhiwhi		●	Condition 8 – TSS	• High TSS caused by algae. Compliance Lead discussing option for algaecide with NRC • Faecal and E.coli trending up. FNW investigating options for replacing aerator and desludging. Seeking methodology, timeline and cost from provider. Due for desludging in 23/24 year. UV's being serviced January 2022.

1. TAN - Total ammoniacal nitrogen
2. TN – Total nitrogen
3. DO – Dissolved oxygen
4. TSS – Total suspended solids
5. BOD – Biological oxygen demand
6. MAV – Maximum acceptable values
7. THM - Trihalomethanes
8. TP – Total Phosphates

6.3 INFRASTRUCTURE COMMITTEE ACTION SHEET UPDATE MARCH 2022

File Number: **A3621517**

Author: **Rhonda-May Whiu, Democracy Advisor**

Authoriser: **Aisha Huriwai, Team Leader Democracy Services**

TAKE PŪRONGO / PURPOSE OF THE REPORT

To provide the Infrastructure Committee with an overview of outstanding decisions from 1 January 2020.

WHAKARĀPOPOTO MATUA / EXECUTIVE SUMMARY

- Council staff have reintroduced action sheets as a mechanism to communicate progress against decisions/resolutions and confirm when decisions have been implemented.
- The focus of this paper is on decisions made by the Infrastructure Committee.
- Action sheets are also in place for Council and Community Boards.

TŪTOHUNGA / RECOMMENDATION

That the Infrastructure Committee receive the report Action Sheet Update March 2022.

1) TĀHUHU KŌRERO / BACKGROUND

The Democracy Services Team have been working on a solution to ensure that elected members can receive regular updates on progress against decisions made at meetings, in alignment with a Chief Executive Officer key performance indicator.

Action sheets have been designed as a way to close the loop and communicate with elected members on the decisions made by way of resolution at formal meetings.

Action sheets are not intended to be public information but will provide updates to elected members, who, when appropriate can report back to their communities and constituents.

2) MATAPAKI ME NGĀ KŌWHIRINGA / DISCUSSION AND OPTIONS

The outstanding tasks are multi-facet projects that take longer to fully complete.

The Democracy Services staff are working with staff to ensure that the project completion times are updated so that action sheets provided to members differentiate between work outstanding and work in progress.

Take Tūtohunga / Reason for the recommendation

To provide the Infrastructure Committee with an overview of outstanding committee decisions from 1 January 2020.

3) PĀNGA PŪTEA ME NGĀ WĀHANGA TAHUA / FINANCIAL IMPLICATIONS AND BUDGETARY PROVISION

There are no financial implications or need for budgetary provision in receiving this report.

ĀPITIHANGA / ATTACHMENTS

1. Infrastructure Committee Action Sheet Update - March 2022 - A3630173

OUTSTANDING ACTIONS REPORT

Printed: Friday, 11 March 2022 5:33:52 PM
Division:
Committee: Infrastructure Committee
Officer:
Date From: 1/01/2021
Date To: 11/03/2022

Meeting	Title	Resolution	Notes
Infrastructure Committee 9/02/2022	Total Mobility Scheme	**RESOLUTION 2022/3** Moved: Cr Kelly Stratford Seconded: Cr Rachel Smith **That the Infrastructure Committee approves the assignment of Total Mobility Scheme local share operational funding of $31,000 to the Northland Regional Council.** In Favour: Crs Felicity Foy, Dave Collard, Rachel Smith, Kelly Stratford, John Vujcich and Member Adele Gardner Against: Nil **CARRIED** NOTES: Chair Foy requests that a timeline, cost options and next steps for the rest of the district be included; as well as criteria for how towns are chosen.	**15 Feb 2022 8:07am Kent, Keith** NTA Public Transport team were unable to join the online meeting but were able to follow proceedings via the Youtube broadcast. In a follow up phone call immediately after the meeting, they acknowledged Cr Foy's request for a timeline, costs etc for roll out of the Total Mobility scheme. I will update these action notes once they have prepared the items.
Infrastructure Committee 05/05/2021	Tourism Infrastructure Fund Round Four, Boat Ramp Study	**RESOLUTION 2021/17** Moved: Cr Kelly Stratford Seconded: Cr Felicity Foy **That the Infrastructure Committee:** **a) receives the report Tourism Infrastructure Fund Round Four, Boat Ramp Study TIF-R4-002 FNDC; and that,** **b) That the Chief Executive Officer prepare a delivery plan on the Tourism Infrastructure Fund Boat Ramp Study.** **CARRIED**	A delivery plan is being developed as part of the IAM work programme. Elected Members will have an opportunity to review this plan at the Infrastructure Committee meeting (they are aiming for May INC but not definite yet).

7 TE WĀHANGA TŪMATAITI / PUBLIC EXCLUDED

RESOLUTION TO EXCLUDE THE PUBLIC

RECOMMENDATION

That the public be excluded from the following parts of the proceedings of this meeting.

The general subject matter of each matter to be considered while the public is excluded, the reason for passing this resolution in relation to each matter, and the specific grounds under section 48 of the Local Government Official Information and Meetings Act 1987 for the passing of this resolution are as follows:

General subject of each matter to be considered	Reason for passing this resolution in relation to each matter	Ground(s) under section 48 for the passing of this resolution
7.1 - Confirmation of Previous Minutes - Public Excluded	s7(2)(h) - the withholding of the information is necessary to enable Council to carry out, without prejudice or disadvantage, commercial activities	s48(1)(a)(i) - the public conduct of the relevant part of the proceedings of the meeting would be likely to result in the disclosure of information for which good reason for withholding would exist under section 6 or section 7
7.2 - Tourism Infrastructure Fund Applications - March 2022	s7(2)(i) - the withholding of the information is necessary to enable Council to carry on, without prejudice or disadvantage, negotiations (including commercial and industrial negotiations)	s48(1)(a)(i) - the public conduct of the relevant part of the proceedings of the meeting would be likely to result in the disclosure of information for which good reason for withholding would exist under section 6 or section 7

8 KARAKIA WHAKAMUTUNGA – CLOSING PRAYER

9 TE KAPINGA HUI / MEETING CLOSE