# Far North District Council



# Te Kaunihera o Tai Tokerau ki te Raki

# AGENDA

## **Infrastructure Committee Meeting**

## Wednesday, 21 July 2021

Time: Location: 9.30 am Council Chamber Memorial Avenue Kaikohe

## Membership:

Chairperson Felicity Foy Mayor John Carter Deputy Mayor Ann Court Cr Dave Collard Cr Mate Radich Cr Rachel Smith Cr Kelly Stratford Cr John Vujcich Kaikohe-Hokianga Board Chairperson Mike Edmonds Te Hiku Community Board Chairperson Adele Gardner

Far North District Council Te Kaunihera o Tai Tokerau ki te Raki	Authorising Body	Mayor/Council
	Status	Standing Committee
	Title	Infrastructure Committee Terms of Reference
	Approval Date	7 May 2020
CONNUTTEE	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 Mate Radich Rachel Smith Mike Edmonds 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 eg 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
  - o 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	Waipapa Business Association	Member		Case by case
Court (Deputy)	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	Property Owner.	Kerikeri.		
Smith (Partner)	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 book keeping, 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 lwi o Ngāpuhi	Tribal affiliate member	As a descendent of Te Rūnanga ā lwi o Ngāpuhi I could have a perceived conflict of interest in Te Rūnanga ā lwi 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
Mike Edmonds	Chair	Kaikohe Mechanical and Historic Trust	Council Funding	Decide at the time
	Committee member	Kaikohe Rugby Football and Sports Club	Council Funding	Withdraw and abstain
Adele	N/A - FNDC Honorarium			
Gardner	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 Council Chamber, Memorial Avenue, Kaikohe on: Wednesday 21 July 2021 at 9.30 am

## Te Paeroa Mahi / Order of Business

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## 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:	A3274786
Author:	Kim Hammond, Meetings Administrator
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 16 June 2021 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. 2021-06-16 Infrastructure Committee Unconfirmed Minutes - A3242428 🗓 🛣

## 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 <u>Council's</u> <u>Significance and Engagement Policy</u>	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 COUNCIL CHAMBER, MEMORIAL AVENUE, KAIKOHE ON WEDNESDAY, 16 JUNE 2021 AT 9.30 AM

**PRESENT:** Chairperson Felicity Foy, Mayor John Carter (HWTM), Deputy Mayor Ann Court, Cr Rachel Smith, Cr Kelly Stratford, Cr John Vujcich, Kaikohe-Hokianga Community Board Chairperson Mike Edmonds (via Microsoft TEAMs), Te Hiku Community Board Chairperson Adele Gardner

## IN ATTENDANCE:

**STAFF PRESENT:** 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

Cr Stratford opened the meeting with a karakia.

## 2 NGĀ WHAKAPĀHA ME NGĀ PANGĀ MEMA / APOLOGIES AND DECLARATIONS OF INTEREST

## APOLOGY

## **RESOLUTION 2021/11**

Moved: Chairperson Felicity Foy Seconded: Cr Kelly Stratford

That the apology received from Cr Collard be accepted and leave of absence granted.

CARRIED

## 3 NGĀ TONO KŌRERO / DEPUTATION

Nil

## 4 CONFIRMATION OF PREVIOUS MINUTES

## 4.1 CONFIRMATION OF PREVIOUS MINUTES

Agenda item 4.1 document number A3052553, pages 14 - 20 refers.

## **RESOLUTION 2021/12**

Moved: Chairperson Felicity Foy Seconded: Cr Rachel Smith

That the Infrastructure Committee confirm that the minutes of the meeting held 5 May 2021 be confirmed as a true and correct record.

CARRIED

## 5 INFORMATION REPORTS

## 5.1 WAKA KOTAHI NEW ZEALAND TRANSPORT AGENCY TECHNICAL AUDIT OF FAR NORTH DISTRICT COUNCIL

Agenda item 5.1 document number A3200811, pages 21 - 46 refers.

## **RESOLUTION 2021/13**

Moved: Deputy Mayor Ann Court Seconded: Cr John Vujcich

That the Infrastructure Committee receive the report Waka Kotahi New Zealand Transport Agency Technical Audit of Far North District Council.

At 10:15 am, Cr Rachel Smith left the meeting. At 10:17 am, Cr Rachel Smith returned to the meeting.

CARRIED

## 5.2 WAKA KOTAHI NZ TRANSPORT AGENCY PROCEDURAL AUDIT OF FAR NORTH DISTRICT COUNCIL

Agenda item 5.2 document number A3201195, pages 47 - 62 refers.

## **RESOLUTION 2021/14**

Moved: Chairperson Felicity Foy Seconded: Cr Kelly Stratford

That the Infrastructure Committee receive the report Waka Kotahi NZ Transport Agency Procedural Audit of Far North District Council.

CARRIED

## 6 TE WĀHANGA TŪMATATI / PUBLIC EXCLUDED

## **RESOLUTION TO EXCLUDE THE PUBLIC**

## **RESOLUTION 2021/15**

Moved: Chairperson Felicity Foy Seconded: Cr Kelly Stratford

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
6.1 - 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	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

	disadvantage, commercial activities	reason for withholding would exist under section 6 or section 7
6.2 - Proposed Paihia Water Treatment Plant Public Works Act Process	s48(1)(d) - the exclusion of the public from the whole or the relevant part of the proceedings of the meeting is necessary to enable the Council to deliberate in private on its decision or recommendation where a right of appeal lies to any court or tribunal against the final decision of the Council in these proceedings	s48(1)(d) - the exclusion of the public from the whole or the relevant part of the proceedings of the meeting is necessary to enable the Council to deliberate in private on its decision or recommendation where a right of appeal lies to any court or tribunal against the final decision of the Council in these proceedings
		CARRIED

## CONFIRMATION OF INFORMATION AND DECISIONS TO BE RELEASED IN PUBLIC

## **RESOLUTION 2021/16**

Moved: Chairperson Felicity Foy Seconded: Cr John Vujcich

That the Infrastructure Committee confirms that the presentation from KiwiRail New Zealand, in the part of the meeting held with public excluded, be restated in public meeting.

CARRIED

#### Attachments tabled at meeting

1 FNDC presentation 210616 - final

## 7 INFORMATION REPORTS CONTINUED

## 7.1 FNDC NTA AND TRANSPORTATION ACTIVITY UPDATE FY 2020/2021 – TO 31 MARCH 2021

Agenda item 5.3 document number A3202853, pages 63 - 74 refers.

## **RESOLUTION 2021/17**

Moved: Chairperson Felicity Foy Seconded: Cr Kelly Stratford

That the Infrastructure Committee receive the report Far North District Council Northland Transport Alliance and Transportation Activity Update FY 2020/2021 – to 31 March 2021.

CARRIED

### Attachments tabled at meeting

1 Graph - Northland Volume Development Applications

## 7.2 ROAD EFFICIENCY GROUP (REG) FNDC ROADING REPORT 2019/2020

Agenda item 5.4 document number A3206312, pages 75 - 83 refers.

## **RESOLUTION 2021/18**

Moved: Chairperson Felicity Foy Seconded: Cr John Vujcich

That the Infrastructure Committee receive the report Road Efficiency Group (REG) FNDC Roading Report 2019/2020.

CARRIED

## 7.3 SLUDGE UPDATE

Agenda item 5.5 document number A3208723, pages 84 - 87 refers.

## **RESOLUTION 2021/19**

Moved: Chairperson Felicity Foy Seconded: Cr Rachel Smith

That the Infrastructure Committee receive the report Sludge Update.

CARRIED

## 7.4 INFRASTRUCTURE AND ASSET MANAGEMENT (IAM) MONTHLY BUSINESS REPORT FOR APRIL 2021

Agenda item 5.6 document number A3208374, pages 88 - 262 refers.

## **RESOLUTION 2021/20**

Moved: Chairperson Felicity Foy Seconded: Cr Rachel Smith

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

CARRIED

## 8 KARAKIA WHAKAMUTUNGA – CLOSING PRAYER

Cr Stratford closed the meeting with a karakia/prayer.

## 9 TE KAPINGA HUI / MEETING CLOSE

The meeting closed at 12.07 pm.

The minutes of this meeting will be confirmed at the Infrastructure Committee meeting to be held on 21 July 2021.

.....

CHAIRPERSON

## 5 **REPORTS**

## 5.1 RUBBISH COLLECTION POINT AT THE CORNER PAIHIA AND WAIKARE ROADS

File Number:	A3282336
Author:	Simon Millichamp, Solid Waste Engineer
Authoriser:	Andy Finch, General Manager - Infrastructure and Asset Management

## TAKE PŪRONGO / PURPOSE OF THE REPORT

To seek approval from the Infrastructure Committee to close the approved collection point at the intersection of Waikare Road and State Highway 11, Kawakawa.

## WHAKARĀPOPOTO MATUA / EXECUTIVE SUMMARY

- The Council has received a petition calling for the closure of the approved collection point at this intersection of Waikare Road and State Highway 11, Kawakawa.
- Waste is regularly dropped here outside of the specified times resulting in a regular pile of waste that is unsightly, attracts rodents and a nuisance for the local residents.
- Kerbside waste collections are not contracted by Council.
- No policies exist concerning solid waste collection points.
- The Whangae Refuse Transfer station is approximately 4 minutes from this site, providing a viable waste disposal option.
- Closing this collection point should reduce the amount of waste accumulating at this site.
- The waste companies are supporting the closure of this collection point.
- Future decisions concerning collection points should be delegated to operational staff.
- This report was presented to the Bay of Islands-Whangaroa Community Board at their meeting on 08 July 2021, who make the following recommendation to the Infrastructure Committee.

## TŪTOHUNGA / RECOMMENDATION

That the Infrastructure Committee:

- a) request the approved collection point at the intersection of Waikare Road and State Highway 11, Kawakawa is closed; and,
- b) agree that future decisions concerning collection points are delegated to operational staff in consultation with the appropriate community board.

## 1) TĀHUHU KŌRERO / BACKGROUND

At the 8 July 2021 Bay of Islands-Whangaroa Community Board meeting the following resolution was carried:

## 7.2 RUBBISH COLLECTION POINT AT THE CORNER PAIHIA AND WAIKARE ROADS

Agenda item 7.2 document number A3248626, pages 35 - 70 refers.

## **RESOLUTION 2021/1**

Moved: Member Manuela Gmuer-Hornell Seconded: Member Lane Ayr

That the Bay of Islands - Whangaroa Community Board makes a recommendation to the Infrastructure Committee that:

- a) request the approved collection point at the intersection of Waikare Road and State Highway 11, Kawakawa is closed; and that,
- b) agree that future decisions concerning collection points are delegated to operational staff in consultation with the appropriate community board.

CARRIED

Abstained: Member Rachel Smith

The Bay of Islands-Whangaroa Community Board members have advised that the names on the petition are local resident/local homeowners. The petition has locations listed outside of Northland although the community board members added great value to the robust discussion by confirming the names on the petition are local members of the community and recommend the appropriate community board are included in future decisions concerning collection points.

#### Kerbside services

Kerbside services are contracted out to private companies. There are no provisions for providing this service in the current solid waste plan or contracts.

Northland Waste Ltd and Waste Management Ltd provide user pay kerbside services in areas that are cost-effective and select which areas will or will not be serviced and generally service only roads/areas that are economically viable.

Issues continue as residents and others, drop refuse bags on the nearest road where there is a kerbside service. Unofficial collection points have developed as a result of this.

Council has some control over limited aspects of these services as per the Solid Waste Bylaw and the licensing of waste collectors.

Public consultation was carried out and as a result, approved collection points were established with the relevant waste companies being responsible for:

- Erecting signage that clearly informs public when to place waste for collection (in response to bags being dumped at the end of roads with no collection service) and
- Clearing collection points within four days of rubbish being reported including illegally dumped black bags.

When instructed, waste companies carry out 'extra pick-ups' in response to 'illegal dumping's' (waste being dumped at the wrong time). If evidence is found that identifies the offender, Council's Monitoring Team will issue an infringement notice.

As per the Solid Waste Bylaw, waste companies are not required to service particular roads or provide approved collection points. There are no processes for establishing new or disestablishing old collection points. Some collection points have been disestablished by the waste companies by simply notifying their customers that they will no longer service that location.

#### The Petition

Council received a petition asking for the closure of the approved collection point at the intersection of Waikare Road and State Highway 11, Kawakawa. The petition was signed by approximately 500 people many of whom appear to be based outside of the district. The person who submitted the petition stated: "I can see a lot of locals have come through as saying from Auckland area not sure why." (as noted above the Bay of Islands-Whangaroa Community Board have confirmed that the names on the petition are local residents/homeowners).

As per the 'Petition Guidelines' the petition was sent to the Governance Team for processing before presenting it to the Chief Executive who determined it should be presented to the Bay of Islands - Whangaroa Community Board for a recommendation to the Infrastructure Committee.

## Waikare Road and State Highway 11 Collection Point

This site was developed as a collection point prior to the Solid Waste Bylaw 2016. It is presumed residents from Waikare Road and Doels Road left their bags at this location for collection as their own properties were not serviced.

The site became an approved collection point following the adoption of the Solid Waste Bylaw 2016. Signage was erected stating the collection day is Tuesday and that pre-paid bags (both rubbish and recycling) can only be left there from midday Wednesday to 7am Tuesday.

Both companies pick up on Tuesdays and generally do a good job of tidying the site. Northland Waste has a commercial run past this point on Wednesdays and does a second check. Waste Management has provided a rat bait station that is re-stocked regularly.

Over time, both pre-paid kerbside and illegally dumped black bags have increased without consideration of how long the bags will remain on site until the next official collection day. Not only is the accumulation of the bags unsightly, they also attract rats and dogs.

From June to October 2019, Waste Management trialed extending their collection service up Waikare Road as far as Karetu School Road, as an attempt to reduce the problem. Flyers were distributed to promote the service however no bags were collected over the 3-month trial period. Consideration was given to extending the service up Doels Road but didn't pursue this option due to the low number of houses and as the road is to narrow and provides limited turning options.

## 2) MATAPAKI ME NGĀ KŌWHIRINGA / DISCUSSION AND OPTIONS

## Status Quo

Maintain the current collection point however issues with illegal dumping's and the resulting unsightliness will continue. Council doesn't have the resources to monitor this and other problem sites sufficiently to prevent illegal dumping. The contractors report that they are finding less evidence in bags which indicates those involved are potentially recidivist offenders who remove incriminating evidence such as letters / envelopes displaying people's names and addresses. Requests via local social media requesting a stop to illegal dumping at this site has not reduced the problem or deterred offenders.

## Close the collection point (recommended option)

As noted, other problematic collection points have been dis-established by waste companies who notify their customers they will no longer service that location and erect signage stating that the site is no longer an approved collection point.

This has worked well at SH1 / Fairburn Road (Kaitaia), SH10 / Takou Bay Road (Waipapa) and SH10 / Dip Road (Kaeo). Initially, dumping of prepaid bags continued but this decreased within two weeks. These collection points attract no more illegal dumping than most roadsides in the district.

The waste companies want to pursue this option with closing the Waikare Road collection point. It is not economically viable to provide a daily service and further promotes irresponsible behavior.

If this option is approved, the waste companies will carry out a leaflet drop in the area informing of the change to the services they provide. Signs will also be erected advising that waste must not be disposed of here, directing them to the Whangae Refuse Transfer Station which is approximately 4 minutes away and is open 7 days per week.

The waste companies are obligated to pick up any pre-paid bags dumped at the site and any black bags and illegal dumping's would be Council's responsibility.

#### Extend the collection run

As noted, the previous trial of extending the kerbside collection up Waikare Road was not successful and did not reduce the volume of illegal dumping. The waste companies are unwilling to trial this again.

## Establish an alternative collection point

The current site is suitable from a logistics perspective as it has sufficient space for the public and collection vehicles to pull off the road to safely drop off / pick up rubbish. An alternative collection point would need to have these features.

An alternative collection point was trialed at the Takou Bay Road collection point however local residents felt that the illegal dumping was due to its location on SH10 and that if it was relocated off the main road it would not be abused by commuters. This was trialed and although dumping at the old collection point stopped, illegal dumping at the new collection point was just as bad as the original site. It was decided by the waste company to stop servicing both sites resulting in no further problems.

It is expected that any adjacent property owners will strongly object to wherever a new collection point is proposed for Waikare Road. Waste companies are also not supportive of looking for an alternative collection point as the Whangae Refuse Transfer Station is so close by.

### Install a rubbish cage

Cages for rubbish have been put at some collection points with limited success. They are initially popular as they provide a smaller, compacted space for the dumping of rubbish. Cages also prevent dogs from accessing bags which then reduces the spread of individual rubbish items.

However, the presence of cages seems to encourage and increase bags being dumping outside of collection days including an increase in the number of black bags and other illegal dumping's. The theft of cages has also been a problem.

As a result of this, the waste companies have stopped installing cages at collection points.

In September 2020, in response to a request from a Councillor the waste companies provided quotes for installing cages at collection points. This was estimated to be approx. \$3,000 per site. There is no existing budget for Council to fund these cages and no requirement under the Solid Waste Bylaw for the waste companies to provide them

## Future decisions on the closure of approved collection points

Staff recommend that future decisions concerning the closure of approved collection points are delegated to staff in conjunction with the waste companies. Although the Solid Waste Bylaw allows the public to drop waste at approved collection points, Council cannot require the waste companies to service any particular areas including collection points.

## Take Tūtohunga / Reason for the recommendation

Closing the Waikare Road / State Highway 11 collection point will give effect to the petition as received and significantly reduce the amount of waste appearing on a daily basis however it may not completely solve the problem of illegal dumping at this intersection.

That the community can use the Whangae Refuse Transfer Station as an alternative option given its close proximity to the current collection point.

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

The kerbside services are not contracted by Council so there are no direct financial implications of closing this collection point.

The waste companies will inform their customers of the change via leaflet drops in the area and appropriate communications via their websites.

Council will incur a relatively small cost to erect a no dumping sign which will be provided from existing budgets.

## **ĀPITIHANGA / ATTACHMENTS**

1. Attachment 1 RUBBISH COLLECTION POINT AT THE CORNER PAIHIA AND WAIKARE ROADS Petition - A3254285 J 🖫 2. Attachment 2 RUBBISH COLLECTION POINT AT THE CORNER PAIHIA AND WAIKARE ROADS Petition comments - A3254286 J

## 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 <u>Council's</u> <u>Significance and Engagement Policy</u>	Low.
State the relevant Council policies (external or internal), legislation, and/or community outcomes (as stated in the LTP) that relate to this decision.	Solid waste Bylaw 2016.
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.	No district wide relevance.
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.	No specific implications to Māori.
State the possible implications and how this report aligns with Te Tiriti o Waitangi / The Treaty of Waitangi.	
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).	Local residents only.
State the financial implications and where budgetary provisions have been made to support this decision.	None.
Chief Financial Officer review.	The Chief Financial Officer has reviewed this report.

## change.org

- Recipient: Far North District Council
- Letter: Greetings,

Get rid of rubbish collection point, corner of Waikare rd and Paihia rd

## Signatures

Name	Location	Date
Jade Sigley	Northland, New Zealand	2021-04-28
Courtney Fraser	Auckland, New Zealand	2021-04-28
Vanessa Bethell	Auckland, New Zealand	2021-04-28
Sam Hawke	Paihia, New Zealand	2021-04-28
Hayley Hessell-Davies	Auckland, New Zealand	2021-04-28
Kelly Tahitahi	Australia	2021-04-28
Jess Henare	Christchurch, New Zealand	2021-04-28
Melanie Uren	New Zealand	2021-04-28
Tayla Tautari	Auckland, New Zealand	2021-04-28
Laura Travers	New Zealand	2021-04-28
siobhan Jefferies	Kawakawa, New Zealand	2021-04-28
Melissa Wiki	Whangarei, New Zealand	2021-04-28
Lara Cooper	Auckland, New Zealand	2021-04-28
Marysa Rihari	Auckland, New Zealand	2021-04-28
Sian Steward	Kawakawa, New Zealand	2021-04-28
Charlotte Goddard	Hamilton, New Zealand	2021-04-28
Wayne Martin	Auckland, New Zealand	2021-04-28
Lisarae Steiner	Kawakawa, New Zealand	2021-04-28
Dana Cowles	Auckland, New Zealand	2021-04-28
lesli churchill	kawakawa, New Zealand	2021-04-28

Name	Location	Date
Nicola nock	northland, New Zealand	2021-04-28
Margie Mathews	Auckland, New Zealand	2021-04-28
Jesse Chapman	Whangarei, New Zealand	2021-04-28
Renee Marsh	Whangarei, New Zealand	2021-04-28
Te-Arahi Carrington	Whangarei, New Zealand	2021-04-28
Constance Joyce	Auckland, New Zealand	2021-04-28
Martina Parata	Whangarei, New Zealand	2021-04-28
Nanette Apiata	Paihia, New Zealand	2021-04-28
Tuari Brooking	Whangarei, New Zealand	2021-04-28
Mish Reti	Auckland, New Zealand	2021-04-28
Lesley Wynyard	Auckland, New Zealand	2021-04-28
Tim Warrander	Auckland, New Zealand	2021-04-28
shane fraser	kerikeri, New Zealand	2021-04-28
Deseree Hudson	Auckland, New Zealand	2021-04-28
kim keeble	Bay of islands, New Zealand	2021-04-28
burnice barnett	Auckland, New Zealand	2021-04-28
Tania Mathews-King	Whangarei, New Zealand	2021-04-28
kuini daniels	Auckland, New Zealand	2021-04-28
Heather Gray	Whangarei, New Zealand	2021-04-28
Elizabeth Bristow	Kawakawa, New Zealand	2021-04-28
jarna sherry	Auckland, New Zealand	2021-04-28
Kathleen Bower	Auckland, New Zealand	2021-04-28

Name	Location	Date
Karen White	Paihia, New Zealand	2021-04-28
Islay Cowles	Auckland, New Zealand	2021-04-28
Clair Swan	Whangarei, New Zealand	2021-04-28
Hariet Marsh	Auckland, New Zealand	2021-04-28
Jacquie Cassidy	Auckland, New Zealand	2021-04-28
Tyra Wills	Hamilton, New Zealand	2021-04-28
Jojo Reti	Auckland, New Zealand	2021-04-28
Rangi Wiki	Auckland, New Zealand	2021-04-28
Shay Sio	Wellington, New Zealand	2021-04-28
shirlene marsh	Auckland, New Zealand	2021-04-28
Jade Rogers	Auckland, New Zealand	2021-04-28
Hine Davis	Kawakawa, New Zealand	2021-04-28
Billie Higgison	Auckland, New Zealand	2021-04-28
Kelsey Rangi	Whangarei, New Zealand	2021-04-28
Kirsty Fisher	Kerikeri, New Zealand	2021-04-28
Keily wilcox	Auckland, New Zealand	2021-04-28
Hira Templeton	Brisbane, Australia	2021-04-28
Beryl Norton	Whangarei, New Zealand	2021-04-28
Gary Hayman	Paraparaumu, New Zealand	2021-04-28
Ngaire Larkins	Loganlea, Australia	2021-04-28
Linda Apiata-Hepi	Auckland, New Zealand	2021-04-28
Kayla Ngaika	Auckland, New Zealand	2021-04-28

Name	Location	Date
Charmaine George	Auckland, New Zealand	2021-04-28
Lorraine Tautari	Tauranga, New Zealand	2021-04-28
Amie Edmonds	Auckland, New Zealand	2021-04-28
Janine Davis	Northland, New Zealand	2021-04-28
Debbie Rudsdale	Whangarei, New Zealand	2021-04-28
Czahn Armstrong	Auckland, New Zealand	2021-04-28
Jamara Ferguson	Auckland, New Zealand	2021-04-28
Jessica Borell	Brisbane, Australia	2021-04-28
Mylie George	Auckland, New Zealand	2021-04-28
Tasha Reihana	Auckland, New Zealand	2021-04-28
Vai Lopeti	Moerewa, New Zealand	2021-04-28
Baden Liu	Auckland, New Zealand	2021-04-28
Micheal Brydon	Whangarei, New Zealand	2021-04-28
Teruma Brown	Auckland, New Zealand	2021-04-28
Michelle Butson	Whangarei, New Zealand	2021-04-28
Noa Campbell	Whanganui, New Zealand	2021-04-28
Atareta Henare	Auckland, New Zealand	2021-04-28
Aaliah Drelaud	Whangarei, New Zealand	2021-04-28
Brent Scott	Whangarei, New Zealand	2021-04-28
Hadyn Wills	Whangarei, New Zealand	2021-04-28
Enfidaville Titore	New Zealand	2021-04-28
Tony Nolan	Whangarei, New Zealand	2021-04-28

Name	Location	Date
Susan Blair	Northland, New Zealand	2021-04-28
Latisha Sinclair	Auckland, New Zealand	2021-04-28
Isabella Wentworth	Whangarei, New Zealand	2021-04-28
dan Stewart	Auckland, New Zealand	2021-04-28
Val Warrander	Christchurch, New Zealand	2021-04-28
Craig Werekake	Wellington, New Zealand	2021-04-28
Laura Francis	Auckland, New Zealand	2021-04-28
Megan Davis	Whangarei, New Zealand	2021-04-28
Waimarie Rameka	Auckland, New Zealand	2021-04-28
Tasha Wharerau	Auckland, New Zealand	2021-04-28
Louise Davey	Auckland, New Zealand	2021-04-28
Jason Hearn	Auckland, New Zealand	2021-04-28
Paul Smith	Auckland, New Zealand	2021-04-28
Tammy Tanenui	Auckland, New Zealand	2021-04-28
Jen Gabb	Auckland, New Zealand	2021-04-28
Sarah Rudsdale	Rotorua, New Zealand	2021-04-28
Elaine Rihari	Auckland, New Zealand	2021-04-28
Joanne Le Clerc	Auckland, New Zealand	2021-04-28
Ngahiwi Duffy	Whangarei, New Zealand	2021-04-28
Daniel Stratford	Auckland, New Zealand	2021-04-28
Ruth Obren	Whangarei, New Zealand	2021-04-28
Djereyl Davies	Auckland, New Zealand	2021-04-28

Name	Location	Date
Demarzio Takimoana-Wharemate	Paihia Bay of Islands, New Zealand	2021-04-28
Maria Evlampieff	Auckland, New Zealand	2021-04-28
Margaret Shortland	Whangarei, New Zealand	2021-04-28
Varninder Singh	Auckland, New Zealand	2021-04-28
Kate Lang	Kawakawa, New Zealand	2021-04-28
Tamara Davis	kawakawa, New Zealand	2021-04-28
Allen Ryder	Whangarei, New Zealand	2021-04-28
Sarah Ngawati	Whangarei, New Zealand	2021-04-28
Kim Henare	Auckland, New Zealand	2021-04-28
Ashleigh Peters	Auckland, New Zealand	2021-04-28
Moana Murray	Auckland, New Zealand	2021-04-28
Vanessa Reti	Whangarei, New Zealand	2021-04-28
Petrina Hape	Auckland, New Zealand	2021-04-28
Marleen Parata	Auckland, New Zealand	2021-04-28
Kim Rogers	Queenstown, New Zealand	2021-04-28
Meretine Parata	Auckland, New Zealand	2021-04-28
Levanni Tuhiwai	Auckland, New Zealand	2021-04-28
Honey Roretana	Liverpool, Australia	2021-04-28
karole peihopa	whangarei, New Zealand	2021-04-28
Daniel Bristow	Auckland, New Zealand	2021-04-28
Aisha Gardiner	Whangarei, New Zealand	2021-04-28

Name	Location	Date
Reece George	Whangarei, New Zealand	2021-04-28
Saffron Davis	Kaikohe, New Zealand	2021-04-28
Shaina Skawronik	Auckland, New Zealand	2021-04-28
Trish Little	Whangarei, New Zealand	2021-04-28
Mariana Robinson	Moerewa, New Zealand	2021-04-28
Kasina Campbell	Auckland, New Zealand	2021-04-28
Debra Dragonheart	Brisbane, Australia	2021-04-28
Jess Brown	Brisbane, Australia	2021-04-28
Ashleigh Payne	Wellington, New Zealand	2021-04-28
Daisy Heta	Sydney, Australia	2021-04-28
Ariki Baldwin	Whangarei, New Zealand	2021-04-28
Lee McMillan	hamilton, New Zealand	2021-04-28
Miracle Hereora	Whangarei, New Zealand	2021-04-28
Russell Sherwin	Auckland, New Zealand	2021-04-28
Ariana Culley	Auckland, New Zealand	2021-04-28
Olivia George	Bay of islands, New Zealand	2021-04-28
Sean Nilsson	Auckland, New Zealand	2021-04-28
Shenice Tana	Auckland, New Zealand	2021-04-28
Alexis Chapman	Auckland, New Zealand	2021-04-28
Joanne Higgins	Whangarei, New Zealand	2021-04-28
Luella Donaldson	Whangarei, New Zealand	2021-04-28
Briana Reti	Whangarei, New Zealand	2021-04-28

Name	Location	Date
Sheree Martin	Whangarei, New Zealand	2021-04-28
kathrynne grundy	Perth, Australia	2021-04-28
Arapera Bernhardt	Auckland, New Zealand	2021-04-29
brosnyn gabb	Auckland, New Zealand	2021-04-29
Natalie Rigden	Auckland, New Zealand	2021-04-29
Allie Romley	Auckland, New Zealand	2021-04-29
Raina Turia	Wellington, New Zealand	2021-04-29
Kylie Norman	Auckland, New Zealand	2021-04-29
Marley Brown	Moerewa, New Zealand	2021-04-29
Elizabeth Vanasche	Northland, New Zealand	2021-04-29
Kiriora Wyllie	Auckland, New Zealand	2021-04-29
Phoebe Davis	Moerewa, New Zealand	2021-04-29
Delwyn Davis	Auckland, New Zealand	2021-04-29
Kat Ruwhiu	Auckland, New Zealand	2021-04-29
manaia armstrong	Auckland, New Zealand	2021-04-29
Sheryl Johnson	Auckland, New Zealand	2021-04-29
Rachel Ensor	Gladstone, Australia	2021-04-29
Tyra Manzenares	Whangarei, New Zealand	2021-04-29
Graeme Nilsson	Auckland, New Zealand	2021-04-29
Geraldine Wiki	Auckland, New Zealand	2021-04-29
Sheryl Grantham	Wellington, New Zealand	2021-04-29
Kayla Reti	Auckland, New Zealand	2021-04-29

Name	Location	Date
teawhi cooper	Christchurch, New Zealand	2021-04-29
Jessie Cherrington	Auckland, New Zealand	2021-04-29
Jewel Mackie	Auckland, New Zealand	2021-04-29
Kasey Coles	Christchurch, New Zealand	2021-04-29
Anthony Brown	Auckland, New Zealand	2021-04-29
Elizabeth Douglas	Whangarei, New Zealand	2021-04-29
Patrick Eid	Illawong, Australia	2021-04-29
Sarah Tipene	Whangarei, New Zealand	2021-04-29
Shannon Brown	Auckland, New Zealand	2021-04-29
Racheal Reti	Whangarei, New Zealand	2021-04-29
Mackie Valmae	Auckland, New Zealand	2021-04-29
Waitekaha Arama	Auckland, New Zealand	2021-04-29
Shane Wilson	Wellington, New Zealand	2021-04-29
Chaz Wikaira	Northland, New Zealand	2021-04-29
Andrew Orbell-Mackie	New Zealand	2021-04-29
Sasha Rewha	Whangarei, New Zealand	2021-04-29
Charlotte Dromgool	Whangarei, New Zealand	2021-04-29
ZA	Auckland, New Zealand	2021-04-29
Anahshea Harpur	Whangarei, New Zealand	2021-04-29
Fran Milner	Auckland, New Zealand	2021-04-29
Lila Armstrong	Australia	2021-04-29
Heather England	Whangarei, New Zealand	2021-04-29

Name	Location	Date
Fi McDonald	Auckland, New Zealand	2021-04-29
Dylan Rewha	Whangarei, New Zealand	2021-04-29
Qudrat Kazimi	Sydney, Australia	2021-04-29
Megan Greenwood	Auckland, New Zealand	2021-04-29
John Rewha	Whangarei, New Zealand	2021-04-29
Taliska Crispin	Berri S.A, Australia	2021-04-29
Rob Love	Brisbane, Australia	2021-04-29
Joy Martin	Auckland, New Zealand	2021-04-29
Sheree Hardaker	Whangarei, New Zealand	2021-04-29
Billie Peita	Paihia, New Zealand	2021-04-29
Zaynab Hussein	Melbourne, Australia	2021-04-29
Bruce Bethell	Auckland, New Zealand	2021-04-29
Lorraine Flay	Auckland, New Zealand	2021-04-29
Renee Clouston	Paihia, New Zealand	2021-04-29
Ben Harder	Auckland, New Zealand	2021-04-29
jessica naylor	Kawakawa, New Zealand	2021-04-29
Nigel Irwin	Auckland, New Zealand	2021-04-29
Troy Day	Hastings, New Zealand	2021-04-29
Reece Bennett	Hastings, New Zealand	2021-04-29
Abby ONeill	Sydney, Australia	2021-04-29
Sam Meldrum	Auckland, New Zealand	2021-04-29
Lisa Tipler	Auckland, New Zealand	2021-04-29

Name	Location	Date
Jacqueline Rewha Clendon	Russell, New Zealand	2021-04-29
Leah Tuckey	Auckland, New Zealand	2021-04-29
Marilyn Mcrae	Auckland, New Zealand	2021-04-29
Kate Matene	Whangarei, New Zealand	2021-04-29
scott fraser	Auckland, New Zealand	2021-04-29
Della brown	Auckland, New Zealand	2021-04-29
Margaret Smith	Whangarei, New Zealand	2021-04-29
Chejaan Mokaraka	Whangarei, New Zealand	2021-04-29
Kim Bevington	Tauranga, New Zealand	2021-04-29
Jill Northcoat	Whangarei, New Zealand	2021-04-29
Helena Davia	Auckland, New Zealand	2021-04-29
Mabel Davis	Whangarei, New Zealand	2021-04-29
Hamlyn and Josephine davis Davis	Auckland, New Zealand	2021-04-29
Cathy Turnbull	Shepparton, Australia	2021-04-29
Melissa Tipene	Whangarei, New Zealand	2021-04-29
Maria Parsons	Christchurch, New Zealand	2021-04-29
Kirstie Steevens	Auckland, New Zealand	2021-04-29
Saria Lolo	Northland, New Zealand	2021-04-29
Katie Jenkins	Auckland, New Zealand	2021-04-29
Eataana Paul	Auckland, New Zealand	2021-04-29
Renee Clarke	Auckland, New Zealand	2021-04-29

Name	Location	Date
Simone Ngawati	Auckland, New Zealand	2021-04-29
Karina Mules	Auckland, New Zealand	2021-04-29
Harpreet somal	Whangarei, New Zealand	2021-04-29
Yusra Hassan	Coburg, Australia	2021-04-29
Ed Peita	Auckland, New Zealand	2021-04-29
Caleb Heke	Auckland, New Zealand	2021-04-29
Marlane Davies	Waipu, New Zealand	2021-04-29
Julia Korol	Wien, Austria	2021-04-29
Jennifer Obren	Whangarei, New Zealand	2021-04-29
Judy Henderson	Auckland, New Zealand	2021-04-29
Shelley Dainton	Gore, New Zealand	2021-04-29
Nicola Smith	Whangarei, New Zealand	2021-04-29
Warren Brown	Whangarei, New Zealand	2021-04-29
TAOHO Cooper-peihopa	Auckland, New Zealand	2021-04-29
Lillian Wiki	Brisbane, Australia	2021-04-29
Holli Ryder	Brisbane, Australia	2021-04-29
Ray Downing	Whangarei, New Zealand	2021-04-29
Sophie Piesse	Auckland, New Zealand	2021-04-29
Steve Ashfield	Perth, Australia	2021-04-29
Suzie Pentelow	Opunake, New Zealand	2021-04-29
Tommy Rosewarne	Wellington, New Zealand	2021-04-29
Mabel Lemon	Kawakawa, New Zealand	2021-04-29

Name	Location	Date
John Harawene	Auckland, New Zealand	2021-04-29
Maribel Marulanda	New York, US	2021-04-29
Cara Riberi	Perth, Australia	2021-04-29
Jack Corbin	Auckland, New Zealand	2021-04-29
Molly Hjert	Wellington, New Zealand	2021-04-29
Isabel Sullivan	Christchurch, New Zealand	2021-04-29
Tanith Marais	Hamilton, New Zealand	2021-04-29
Maureen Hei Hei	Auckland, New Zealand	2021-04-29
Kieran Sharp	Auckland, New Zealand	2021-04-29
Alan Benseman	kawakawa, New Zealand	2021-04-29
Pae Wiki	Brisbane, Australia	2021-04-29
Linda Dodds	Auckland, New Zealand	2021-04-29
Kelly Ngati	Auckland, New Zealand	2021-04-29
malcolm mcall	Wellington, New Zealand	2021-04-29
Sam HARAWENE	Karetu, New Zealand	2021-04-29
Conrad Sherwin	Wellington, New Zealand	2021-04-29
Janet Goile	Paihia, New Zealand	2021-04-29
Anna Laidler	East Stroudsburg, US	2021-04-29
amy stroud	Australia	2021-04-29
Dene Harrison	Auckland, New Zealand	2021-04-29
Tasha George	Auckland, New Zealand	2021-04-29
Linsey Reti	Kawakawa, New Zealand	2021-04-29

Name	Location	Date
Gae Desson	Auckland, New Zealand	2021-04-29
Heather Brunton	Christchurch, New Zealand	2021-04-29
Lisa Perkins	Australia	2021-04-30
Serina Marsh	Sydney, Australia	2021-04-30
Bianca Christensen	Christchurch, New Zealand	2021-04-30
Poultry Man	New Zealand	2021-04-30
Deanne Matekohi	Auckland, New Zealand	2021-04-30
Geoff Rudsdale	Auckland, New Zealand	2021-04-30
Carolyn Bethell	Whangarei, New Zealand	2021-04-30
Lee Costello	Auckland, New Zealand	2021-04-30
Shaun Wedekind	Opua, New Zealand	2021-04-30
Julie Martin	Frederic, Australia	2021-04-30
Robyn Fendall	Waitakere, New Zealand	2021-04-30
Kath Davis	Auckland, New Zealand	2021-04-30
Qwayd Armstrong	Auckland, New Zealand	2021-04-30
Taria Tane	Auckland, New Zealand	2021-04-30
gail boone	Kawakawa, New Zealand	2021-04-30
shirley herbert	Ruakaka, Kawakawa, New Zealand	2021-04-30
Ella Smith	Hamilton, New Zealand	2021-04-30
Scott Smith	Whangarei, New Zealand	2021-04-30
Dale Clotworthy	Auckland, New Zealand	2021-04-30
Jewel Heta	Whangarei, New Zealand	2021-04-30

Name	Location	Date
Elizabeth Godfrey	Whangarei, New Zealand	2021-04-30
Don MacKinnon	Whangarei, New Zealand	2021-04-30
Joanne Fullelove	Wellington, New Zealand	2021-04-30
Mahesh Prasad	Whangarei, New Zealand	2021-04-30
Jasper Mace	Auckland, New Zealand	2021-04-30
Lauren Reilly	Havelock North, New Zealand	2021-04-30
Catarina Leng	Wellington, New Zealand	2021-04-30
Archie Stewart	Auckland, New Zealand	2021-04-30
Jaimee Shepherd	Kerikeri, New Zealand	2021-04-30
Matthew Rigden	New Zealand	2021-04-30
Ange Ryder	Auckland, New Zealand	2021-04-30
Marina Ris	zagreb, Croatia	2021-04-30
Tarsh Doevendans	Auckland, New Zealand	2021-04-30
Bobbie-Lee Ryder	Brisbane, Australia	2021-04-30
Caitlin Scott	Auckland, New Zealand	2021-04-30
Naini Brewster	Auckland, New Zealand	2021-04-30
Tanne Daniels	Queenstown, New Zealand	2021-04-30
Romy Colbatz	Whangarei, New Zealand	2021-04-30
Rebeka Brown	Auckland, New Zealand	2021-04-30
Miss claudia Miller	Plymouth, UK	2021-04-30
Kaleb Bernards	Tauranga, New Zealand	2021-04-30
francesco ernoli	milano, Italy	2021-04-30

Name	Location	Date
John Reti	Auckland, New Zealand	2021-04-30
Elena Perez	Valladolid, UK	2021-04-30
Dave Skinner	Auckland, New Zealand	2021-04-30
Bartosz Dembowski	Leeds, UK	2021-04-30
Mathew Taylor	Auckland, New Zealand	2021-04-30
Polly Hall	Auckland, New Zealand	2021-04-30
Barbie Rewha	Christchurch, New Zealand	2021-04-30
Priscilla Pomare	Whangarei, New Zealand	2021-04-30
Tamara Ryder	Adelaide, Australia	2021-04-30
Lateesha Gardiner	Melbourne, Australia	2021-04-30
wimal Jayasekera	Auckland, New Zealand	2021-04-30
Shakshi Deo	Auckland, New Zealand	2021-05-01
Natalia Kingan	Auckland, New Zealand	2021-05-01
ora Bryers	Auckland, New Zealand	2021-05-01
Sayjharn Dale Potae	Mangawhai, New Zealand	2021-05-01
Kennedy Peterson	Auckland, New Zealand	2021-05-01
bonita morunga	papakura, New Zealand	2021-05-01
Sally Werekake	Auckland, New Zealand	2021-05-01
Jane Takimoana	Auckland, New Zealand	2021-05-01
Manarangi Mua	Masterton, New Zealand	2021-05-01
Davinia Sivapragas	Auckland, New Zealand	2021-05-01
Dean Te Tai	Whangarei, New Zealand	2021-05-01

Name	Location	Date
Shirley Hakaraia	Auckland, New Zealand	2021-05-01
Mackenzie Clarke	Dunedin, New Zealand	2021-05-01
MIKE Kiri	Auckland, New Zealand	2021-05-01
Mason younger	Auckland, New Zealand	2021-05-01
Kanishka Kapadia	Auckland, New Zealand	2021-05-01
April Jenkin	Northland, New Zealand	2021-05-01
Memory Brown	Auckland, New Zealand	2021-05-02
Yong Lee	Edwardstown, Australia	2021-05-02
joel young	peregian springs, Australia	2021-05-02
Sarah Thompson	Camberwell, Australia	2021-05-02
Paige Terure	Wellington, New Zealand	2021-05-02
Gale Venner Venner	Auckland, New Zealand	2021-05-02
Gisborn Ryder	Auckland, New Zealand	2021-05-02
Brodice Ryder	Hamilton, New Zealand	2021-05-02
slade willoughby	Whangarei, New Zealand	2021-05-02
Ramari Pirihi	Auckland, New Zealand	2021-05-02
Libby Harding	Wellington, New Zealand	2021-05-03
Ngairo Tahere	Auckland, New Zealand	2021-05-03
arlette simon	France	2021-05-03
Atawhai Evans	Kaitaia, New Zealand	2021-05-04
Bella Thompson	Dargaville, New Zealand	2021-05-04
Lisa Davis	Whangarei, New Zealand	2021-05-04

Name	Location	Date
Russell Carlyon	Whangarei, New Zealand	2021-05-04
Ida Scott	Christchurch, New Zealand	2021-05-04
Piper Matthews	Carterton, New Zealand	2021-05-04
Aymeric Poujol	Sydney, Australia	2021-05-04
Moananui Kadarmia	Auckland, New Zealand	2021-05-05
Jayla Waitere	Hamilton, New Zealand	2021-05-05
Siobhan Adams	Christchurch, New Zealand	2021-05-05
Peter Day	Auckland, New Zealand	2021-05-05
Dusanka Sivcevic	Blaxland East, Australia	2021-05-05
Ora Mcsweeny	Tauranga, New Zealand	2021-05-05
Annie Temmay	US	2021-05-05
Alexis Edwards	Cambridge, New Zealand	2021-05-05
Waitarehu Ryder	Tennant Creek, Australia	2021-05-05
Caitlin Reti	Auckland, New Zealand	2021-05-06
Nariska Patel	Auckland, New Zealand	2021-05-06
Ineka Halse	Whangarei, New Zealand	2021-05-06
florence TREBOUTTE	Paris, France	2021-05-06
Pauly Reti	Auckland, New Zealand	2021-05-07
Shade Pihema	northland, New Zealand	2021-05-08
Eden Heta	Whangarei, New Zealand	2021-05-08
Finley Tautari	Whangarei, New Zealand	2021-05-08
Buck Shell	New Zealand	2021-05-08

Name	Location	Date
Bree Hayman	Nsw, Australia	2021-05-08
Mona Williams	Belconnen, Australia	2021-05-08
Andy Logan	Auckland, New Zealand	2021-05-08
Mariam Daniel	Craigieburn, Australia	2021-05-08
Pathik Shah	Melbourne, Australia	2021-05-08
Samaria Pulemoana	Auckland, New Zealand	2021-05-08
Jeff Dephoff	Auckland, New Zealand	2021-05-08
Wiremu Diamond Wilson	Auckland, New Zealand	2021-05-08
Jax Cooper	Australia	2021-05-08
Shamicah Tautari	Auckland, New Zealand	2021-05-08
Victoria Hobson	Christchurch, New Zealand	2021-05-08
Kat Thomson	auckland, New Zealand	2021-05-10
Maeroa Tuimaseve	Hamilton, New Zealand	2021-05-11
zethan pomare	Auckland, New Zealand	2021-05-12
Ashla Bristowe	Auckland, New Zealand	2021-05-12
Mereana Bray	Auckland, New Zealand	2021-05-13
Ziolon Tauatri	Paraparaumu, New Zealand	2021-05-13
Angellee Saunders	Auckland, New Zealand	2021-05-13
Ashley Davis	Auckland, New Zealand	2021-05-13
Richard Hau	Paihia, New Zealand	2021-05-13
Rachael Llewell	Rotorua, New Zealand	2021-05-14
Lorne naera	Auckland, New Zealand	2021-05-14

Name	Location	Date
Trisha Davis	Whangarei, New Zealand	2021-05-14
Rikki Reed	Napier, New Zealand	2021-05-14
Robert Tanenui	Whangarei, New Zealand	2021-05-14
Teina Wikaira	Auckland, New Zealand	2021-05-14
Mikki Tee	Blacktown, Australia	2021-05-14
Ed Lipsham	Auckland, New Zealand	2021-05-14
Darie Hau	Whangarei, New Zealand	2021-05-14
Bardy Williams	Hamilton, New Zealand	2021-05-14
Samantha Mahanga	Auckland, New Zealand	2021-05-15
Douglas Jenner	Auckland, New Zealand	2021-05-15
Shane Tamihana	Auckland, New Zealand	2021-05-15
Destiny Maxwell	Auckland, New Zealand	2021-05-15
Billy Kaihe	Auckland, New Zealand	2021-05-15
Toya Tahitahi	Auckland, New Zealand	2021-05-16
Esther Pirini	Russell, New Zealand	2021-05-16
Brendon Power	Russell, New Zealand	2021-05-16
Denise Rehu	Auckland, New Zealand	2021-05-16
heavenlee livingstone	auckland, New Zealand	2021-05-16
Hinemoa Marsh	Northland, New Zealand	2021-05-17
Francine Pomare	Hamilton, New Zealand	2021-05-17
Paula Milner	Auckland, New Zealand	2021-05-18
Salem Brown	Whangarei, New Zealand	2021-05-19

Name	Location	Date
Tapeka Henare	Auckland, New Zealand	2021-05-19
Jason Curtis	Auckland, New Zealand	2021-05-19
Sharon Bauer	Whangarei, New Zealand	2021-05-19
Kimberley Palmer	Auckland, New Zealand	2021-05-19
Vicki Holford	Auckland, New Zealand	2021-05-19
Alexa Fraser	Auckland, New Zealand	2021-05-19
Kathleen Mahanga Hancy	Auckland, New Zealand	2021-05-19
Rameka Peita	Whangarei, New Zealand	2021-05-19
Nick White	Auckland, New Zealand	2021-05-19
Trent Tipene	Christchurch, New Zealand	2021-05-19
Ruth Bateman	Auckland, New Zealand	2021-05-19
Naini Heremaia-Black	Auckland, New Zealand	2021-05-19
Toni Crombie	Auckland, New Zealand	2021-05-19
Rose George	Auckland, New Zealand	2021-05-19
Paeroa Tau	Auckland, New Zealand	2021-05-19
Nikki Harvey	Auckland, New Zealand	2021-05-19
Tremain Maaka	Auckland, New Zealand	2021-05-19
Sandy Rupapera	Whangarei, New Zealand	2021-05-20
Jody Wano	Auckland, New Zealand	2021-05-20
James Wilcox	Whangarei, New Zealand	2021-05-20
Ruiha Kara	Whangarei, New Zealand	2021-05-20
Kiri Paul	Wellington, New Zealand	2021-05-20

Name	Location	Date
Lynette Brydon	Whangarei, New Zealand	2021-05-20
April Dawn Rihari	Auckland, New Zealand	2021-05-20
mouse rachel	Auckland, New Zealand	2021-05-20
Tracey Rihari	Auckland, New Zealand	2021-05-20
Lauren Campbell	Whangarei, New Zealand	2021-05-21
Roger mccracken	Whangarei, New Zealand	2021-05-21
Steve Hatch	Auckland, New Zealand	2021-05-21
Emily Rust	Auckland, New Zealand	2021-05-21
Fleur Beresford	Russell, New Zealand	2021-05-21
Richard Taylor	Auckland, New Zealand	2021-05-21
wynn mostert	Cambridge, New Zealand	2021-05-21
Kevin Jones	Auckland, New Zealand	2021-05-21
Renee Robinson	Auckland, New Zealand	2021-05-21
Maraia Wikaire	New Zealand	2021-05-21
Ramari Morland	Auckland, New Zealand	2021-05-21
Tina Ashman	Auckland, New Zealand	2021-05-21
Sarah Halliday	Auckland, New Zealand	2021-05-21
Christine Godfrey	Auckland, New Zealand	2021-05-21
Anishka Buckthought	Auckland, New Zealand	2021-05-21
Lewis Simpson	Whangarei, New Zealand	2021-05-21
Ben Byrne	Auckland, New Zealand	2021-05-21
Aylah Mcsweeney	Auckland, New Zealand	2021-05-21

Name	Location	Date
Jenna Prendiville	Paihia, New Zealand	2021-05-21
Caleb McSweeney	tauranga, New Zealand	2021-05-21
Antonia Wattam	Auckland, New Zealand	2021-05-21
Stephanie Godsiff	Paihia, New Zealand	2021-05-21
Kez W	Auckland, New Zealand	2021-05-22
Ali Lawlor	Auckland, New Zealand	2021-05-22
Shell Wilson	New Zealand	2021-05-22
Conor Mailey	Auckland, New Zealand	2021-05-22
Rachelle Packer	Whangarei, New Zealand	2021-05-22
George Easton	Hamilton, New Zealand	2021-05-22
Frances Long	Auckland, New Zealand	2021-05-22
Bk Alatipi	Whangarei, New Zealand	2021-05-22
Deane Rogers	auckland, New Zealand	2021-05-22
Arlene Gabb	Whangarei, New Zealand	2021-05-23
Porsha Anderson	Auckland, New Zealand	2021-05-23
delanie Hemaloto	Northland, New Zealand	2021-05-23
Sean Doel	Auckland, New Zealand	2021-05-23
Jan Graham	Kawakawa, New Zealand	2021-05-24
Marsha Davis	Auckland, New Zealand	2021-05-24
Robyn George	Auckland, New Zealand	2021-05-24
Ashneel Prakash	Auckland, New Zealand	2021-05-24
joshua nielsen	invercargill, New Zealand	2021-05-24

Name	Location	Date
Hayden Cowles	Auckland, New Zealand	2021-05-24
Nikki Anderson	Auckland, New Zealand	2021-05-24
Alisha Takimoana	Auckland, New Zealand	2021-05-24
Latasha Takimoana	Whangarei, New Zealand	2021-05-24
Caylah Willoughby	Auckland, New Zealand	2021-05-24
Janet Jesen	Kaikohe, New Zealand	2021-05-25
Rachel Ager	Whangarei, New Zealand	2021-05-25
Liz Clark	Kerikeri, New Zealand	2021-05-25
sophie beeton	Auckland, New Zealand	2021-05-25
Mikaela Wells	Auckland, New Zealand	2021-05-25
Nicole Pihema	Kawakawa, New Zealand	2021-05-25
Nigel Hudson	Auckland, New Zealand	2021-05-25
Thomas Applegath	Auckland, New Zealand	2021-05-26
TeArii Douglas	Auckland, New Zealand	2021-05-26
Patrick Moka	Auckland, New Zealand	2021-05-26
Morgan Macaulay	Hastings, New Zealand	2021-05-27
Jessie Takiari	Perth, Australia	2021-05-29
Arona Tipene	Whangarei, New Zealand	2021-05-31
Elly Neilsen	Australia	2021-06-01
Phil DEVITT	Australia	2021-06-01
Manaia Matchitt-taniora	Auckland, New Zealand	2021-06-01
Chris Clarkson	Dunedin, New Zealand	2021-06-01

Name	Location	Date
Elena Anikeev	Sydney, Australia	2021-06-01
Sharon Ransfield	Auckland, New Zealand	2021-06-01
sittichai laoaramwattana	Perth, Australia	2021-06-01
Carolyn P	Brisbane, Australia	2021-06-01
Joanne Peters	Osborne Park, Australia	2021-06-01
Farha Azad	Sydney, Australia	2021-06-01
Andre Maniatis	Ormond, Australia	2021-06-01
Bec Dean	Australia	2021-06-01
Barbara Hunter	Australia	2021-06-01
Vivian Dalla Rosa	Melbourne, Australia	2021-06-01
Raymond T L Misinale	Australia	2021-06-01
Carole Ayres	Traralgon, Australia	2021-06-01
Asha Barlow	Shailer Park, Australia	2021-06-01
Alex Walker	Brisbane, Australia	2021-06-01
Amelia Clarke	melbourne, Australia	2021-06-01
ashu lee	Summer Hill, Australia	2021-06-01
Maria Sanchez	Sydney, Australia	2021-06-01
Zali Seisun	Australia	2021-06-01
Maria Makhoul	Asquith, Australia	2021-06-01
Michael Baas	Whangarei, New Zealand	2021-06-07

## change.org

- Recipient: Far North District Council
- Letter: Greetings,

Get rid of rubbish collection point, corner of Waikare rd and Paihia rd

## Comments

Name	Location	Date	Comment
Melanie Uren	New Zealand	2021-04-28	"I live up Doel Rd, we do not use this collection point based on the fact it always looks such a mess and I feel like I can't possibly add to it. Although it would be a great idea if people didn't abuse it, time and time again we see it abused and used as a dumping ground for anything. Rubbish collection is Tuesday and by Tuesday arvo and Wednesday there is at least 6 bags there again which stay there for the week. It smells, there are rats always and my children exit the bus here after school. People have abused it so I say take it away. It is also a gateway to the bay of islands and not a good look."
Lisarae Steiner	Kawakawa, New Zeal <i>a</i> nd	2021-04-28	"My son attends karetu and gets picked up and dropped off at this point. I hate seeing all the rubbish he has to walk past."
lesli churchill	kawakawa, New Zealand	2021-04-28	"It's a disgusting eyesore, and a health hazard"
Nanette Apiata	Paihia, New Zeal <i>a</i> nd	2021-04-28	"It needs to be rectified"
Tania Mathews-King	Whangarei, New Zealand	2021-04-28	"Who wants there kids to wait for their school buses with rats running through the rubbish. This is how lazy Waste Collection Companies are. They collect at kirbside in Kawakawa but not Karetu or Waikare."
Elizabeth Bristow	Kawakawa, New Zealand	2021-04-28	"I'm sick of seeing rubbish there every day on my way to and from work. An eyesore!"
Ngaire Larkins	Loganlea, Australia	2021-04-28	"Help out tamariki whanau"
Debbie Rudsdale	Whangarei, New Zealand	2021-04-28	"Please remove this rubbish collection site, it is unnecessary when we have the Whangae refuse centre less then 5 minutes away."
En fid aville Titore	New Zealand	2021-04-28	"I dont live in this area but I have seen the rubbish dumped here.The green bags do not cost much but some people dont care. Too lousy to buy these bags. Total disregard for the whenua."
Kate Lang	Kawakawa, New Zeal <i>a</i> nd	2021-04-28	"Correct rubbish and recycling practices should be followed."
Kasina Campbell	Auckland, New Zealand	2021-04-28	"Disgusting for the kids to have to stand in amongst that. Move that rubbish drop point and or I suggest the council gets large bins put in place to lessen health hazards and animals getting into the bags. People need to think about how they disgard their crap."

Name	Location	Date	Comment
Ariki Baldwin	Whangarei, New Zealand	2021-04-28	"Too many abuse the area and it's too close to Tirohanga ayrwam to be left with rubbish scattered all over the place."
Lee McMillan	hamilton, New Zealand	2021-04-28	"I almost crashed into someone looking at it and not the road as they drove passed and it's yucky."
Olivia George	Bay of islands, New Zealand	2021-04-28	"It is not"
Joanne Higgins	Whangarei, New Zealand	2021-04-28	"Its an unneccessary bad look for the Bay of Islands and paru as."
Marley Brown	Moerewa, New Zeal <i>a</i> nd	2021-04-29	"I drive passed this point and go to the dump 5mins up the road because it always looks filthy on this intersection & I don't want to be aprt of that problem. if it's not bags uncollected it's ripped up rubbish or scattered rubbish leftover from the ripped bags & the poor kids who catch the buses there have to look at this site."
teawhi cooper	Christchurch, New Zealand	2021-04-29	"To support the removal of rubbi from side rd"
Elizabeth Douglas	Whangarei, New Zeal <i>a</i> nd	2021-04-29	"I agree if that's gonna cause pests n an eyesore to the area it would be a good thing to get rid of it."
Lila Armstrong	Australia	2021-04-29	"Change needs to happen stop dumping your rubbish"
Fi McDonald	Auckland, New Zealand	2021-04-29	"Our children and the land deserve this to be safe and clean."
Sasha Rewha	Kawakawa, New Zealand	2021-04-29	"Like Mel we live down the road but dont use it, the dump is literally just over the hill. Not fair for the tamariki to be exposed to it on a daily, because it is daily not just Tuesdays mornings!! Roadside dump station BE GONE!"
Saria Lolo	Northland, New Zealand	2021-04-29	"Remove itdump 5 minutes up the road don't be lazy . I'm up ruapek and I go to moerewa or opua . I'm sure these folks can do likewisecome on peeps keep our country roadside pretty not pretty ugly"
Julia Korol	Wien, Austria	2021-04-29	"Because littering sucks, everywhere."
Lillian Wiki	Brisbane, Australia	2021-04-29	"Not good for the community"
Mabel Lemon	Kawakawa, New Zealand	2021-04-29	"i want it gone its disgusting to look at"
Heather Brunton	Christchurch, New Zealand	2021-04-29	"Please fix this"
gail boone	Kawakawa, New Zealand	2021-04-30	"As a resident leaving rubbish at this location is no longer viable due to increase in residents. Should be collected at gate, dropped off at tip, or dropped in a location where the

Name	Location	Date	Comment
			rubbish is removed quickly. Not left sitting. The corner has become a tio."
shirley herbert	Ruakaka, Kawakawa, New Zealand	2021-04-30	"Get rid of this rubbish. Not fare on the locals having to pick up someone elses rubbish. Shame on whoever left it there"
Natalia Kingan	Auckland, New Zealand	2021-05-01	"I used to live around the area and my boys used to use that stop and it gets disgusting the smell alone is enough to put you off dropping kids off at the bus . Many people have nearly crashed looking at the rubbish it needs a new pick up point"
bonita morunga	papakura, New Zealand	2021-05-01	"It smells outside an outside me off wanting to go back to Paihia <b>令</b> 藍"
Shade Pihema	northland, New Zealand	2021-05-08	"It's an eyesore and misused by others. Surely something better can be done."
zethan pomare	Auckland, New Zeal <i>a</i> nd	2021-05-12	"it is disgusting"
Richard Hau	Paihia, New Zeal <i>a</i> nd	2021-05-13	"I hate rubbish on the side of our roads"
Rikki Reed	Napier, New Zeal <i>a</i> nd	2021-05-14	"I'm from karetu"
Billy Kaihe	Auckland, New Zealand	2021-05-15	"PARU BASKETS"
heavenlee livingstone	auckland, New Zeal <i>a</i> nd	2021-05-16	"To support that it an unhealthy act"
Hinemoa Marsh	Northland, New Zeal <i>a</i> nd	2021-05-17	"It's Discussing"
mouse rachel	Auckland, New Zealand	2021-05-20	"We need more respect for our land and environment"
Maraia Wikaire	New Zealand	2021-05-21	"It's disgusting, embarrassing, attracts rats, is a health hazard"
Ramari Morland	Auckland, New Zealand	2021-05-21	"Ramari Morland"
Anishka Buckthought	Auckland, New Zeal <i>a</i> nd	2021-05-21	"It's a mess"
Caleb McSweeney	tauranga, New Zealand	2021-05-21	"This is feral"
Antonia Wattam	Auckland, New Zealand	2021-05-21	"I'm signing because I drive past everyday and see rubbish being left everyday while the poor kids waiting for the bus contend with large rats and at times horrible smells. Its an eyesore seeing piles of rubbish on a Thursday leading into

Name	Location	Date	Comment
			the beautiful BOI and knowing that the rubbish will stay there till pickup on a Tuesday. No excuses with the Whangae Transfer Station 5mins up the road"
Stephanie Godsiff	Paihia, New Zealand	2021-05-21	"I drove past this the other day on way back from Auckland. It looked awful. Certainly not a nice welcome to the Bay of Islands"
Nicole Pihema	Kawakawa, New Zealand	2021-05-25	"It's paru!"

### 5.2 PRIORITY SEAL EXTENSIONS PROGRAMME 2021-2022

File Number:	A3248249
Author:	Aram Goes, Maintenance and Operations Manager
Authoriser:	Andy Finch, General Manager - Infrastructure and Asset Management

### TAKE PŪRONGO / PURPOSE OF THE REPORT

To seek approval to proceed with the recommended road dust seal extension sections with the work to be implemented through the existing Road Maintenance and Renewals Contracts for Far North District Council's (FNDC) unsubsidised Long-Term Plan (LTP) 2021-2024 allocation of \$6,493,600 million, being;

- 2021/22 \$2,000,000 (+ \$320,000 separate for Unahi Wharf Project)
- 2022/23 \$2,060,000
- 2023/24 \$2,113,600

To support this, the report outlines the background and adopted methodology of the recommended seal extension programme and identifies the recommended road sections to be completed under FNDC unsubsidised \$6,173,600 LTP 2021-2024 sealing allocation (excluding Unahi Wharf Project).

### WHAKARĀPOPOTO MATUA / EXECUTIVE SUMMARY

This report:

- outlines the background and adopted methodology of the recommended seal extension programme,
- identifies the recommended road sections under FNDC unsubsidised \$6,173,600 Long-Term Plan sealing allocation.

### **TŪTOHUNGA / RECOMMENDATION**

That Infrastructure Committee:

- a) approves the road sections prioritised in the Dust Matrix (as ranked at 19/6/2021) for Seal Extension work in 2021-2024
- b) approves authority be delegated to the Chief Executive Officer to procure and award the associated work for the approved 2021-2024 Priority Seal Extensions Programme within the available Long-Term Plan budget.

### 1) TĀHUHU KŌRERO / BACKGROUND

At the Council meeting held 27 June 2019, the weighting methodology informing the prioritisation matrix was approved, including scrutiny-based length optimisation process for roads identified to fall within FNDC's funded works.

On 16 September 2020 a workshop with Elected Members was held where the Northland Transport Agency (NTA) demonstrated the need for up-to-date and accurate data was imperative, with in excess of 40,500 data records required to be actively managed.

An extensive traffic counting programme was undertaken during the summer of 2020/2021 and the data upload was completed in April 2021 for migration into the Dust Matrix in May 2021.

This highlighted that significant work was required to capture more unsealed road counts and the need to segment the sections to target house locations, or clusters of houses, instead of applying the Road Asset Maintenance Management database carriageway sections (that are in some cases up to >14km long and therefore unaffordable, plus diminished the sensitivity of the individual homes affected by dust nuisance).

Further recommendations included removal of rain frequency, the benefit costs analysis of sealing vs maintenance cost history be a secondary exercise, and that site selection approval be based on data at a fixed point in time (acknowledging the rankings are not absolute and will change after any resolution, when updated data is available).

On 24 September Council resolved to target sealing of known remaining school and marae frontages with 10 sites completed before 30 April 2021, being six schools and four marae frontages. During this period staff also undertook further targeted investigation through which a further 39 marae with no sealed frontages have been identified in the region (see attachment one).

### 2) MATAPAKI ME NGĀ KŌWHIRINGA / DISCUSSION AND OPTIONS

The road sections to receive dust seals under FNDC's latest prioritisation, based on the Council's twenty-two Dust Matrix criteria, are tabled in order of priority below;

Road name	Location	TL Name	Start	End	Length
Brass Road	AHIPARA	Kaitaia-Awaroa Road to end of houses	50	1,725	1,675
Parapara- Toatoa Road	TAIPA	Parapara Road to Parapara Marae	62	1,185	1,123
Oromahoe Road	OROMAHOE	From houses on fast straight to sealed bridge approach	1,478	2,682	1,204
Pawarenga Road	PAWARENGA	End of health clinic seal to past houses	11,903	13,583	1,680
West Coast Road	KOHUKOHU	Te Karaka Inlet to houses past Marae and Church	25,167	27,100	1,933
Ruaroa Road	RANGITIHI	From rapid no 300 to past houses	3,008	5,681	2,673
Hautapu Road	MOEREWA	From end of seal at Hupara Road to past houses	4,736	5,937	1,201

Full details on the scoring for these road sections, including the entire Dust Matrix ranking as at 30 June 2021, is shown in attachment two.

A scenario whereby any savings achieved in the delivery of the respective sites in each financial year could be directed to the continuation of marae frontage dust sealing strips is welcomed for discussion. In such instances trialling of innovate low cost sealing alternatives should be encouraged because of their unique low traffic and often isolated remote locations making conventional sealing more costly.

The NTA has considered other ways to fund seal extensions, including;

- 1. Regional Strategic Partnership Fund (RSPF, replacing Provincial Growth Fund)
- 2. Tourism Infrastructure Fund (TIF)
- 3. Waka Kotahi (NZTA) subsidised criteria (Circular 16.04) and/or
- 4. Waka Kotahi (NZTA) subsidised Low-Cost-Low-Risk criteria (benefit-cost ratio).

### Regional Strategic Partnership Fund

Preliminary assessment of likely funding approval under RSPF is low at best.

RSPF applications to MBIE demand strong strategic alignment with extensive business case investment, taking timelines for any future funding approval well beyond the upcoming 2021/2022 construction season.

No applications have been made by Council to date.

### Tourism Infrastructure Fund

Preliminary funding requests to MBIE for TIF can be seen in Appendix 3. And includes the following road sections;

- Bayly Road from Haruru Falls Road to Waitangi Mountain Bike Park (approx. 980m length)
- Te Paki Stream Road from SH1 for Sand Dune Recreation Area (approx.3.7km)
- Haruru Falls Road from end of seal to Waitangi Grounds (approx. 3.2km)
- Waiare Road from end of seal to Puketi Forest Recreation Area (approx. 600m)
- Matai Bay Road from end of seal to Matai Bay DoC Campsite (approx. 1.3km)

Similar for RSPF applications above, likely funding approval under TIF is considered low. Furthermore, any future funding approval will be beyond the upcoming 2021/2022 construction season.

### Waka Kotahi (NZTA) subsidised criteria (Circular 16.04)

Preliminary funding requests to Waka Kotahi (NZTA) includes the following road sections;

- West Coast Road from end of seal at Te Karaka Road to past 10x houses including Marae and Church (approx. 930m length to be confirmed)
- Purerua Road from end of seal to Taronui Road, 3x houses (approx. 700m length to be confirmed)
- Arawhata Road from Mangatete Heights to Boat Ramp, 23x houses (approx. 1.3km length to be confirmed)
- Aurere Beach Road from SH10 for approx. 300m, 5x houses (length to be confirmed)
- Wainui Road from Kaitaia-Awaroa Road for approx. 300m, 4x house including Marae (length to be confirmed).

Details on the number of houses and scoring for these road sections is shown in attachment four.

It is noticeable from the top sites presented the NZTA Circular 16.04 criteria is heavily weighted towards routes with proportionally high %HCV when near clusters of houses. Interestingly the other locations are not notable HCV routes, demonstrating the criticality of accurate up-to-date data and discernment in data relativity (i.e. percentages vs raw numbers).

Funding requests for 2021-2024 to Waka Kotahi totals \$3,000,000 and is subject to change. In addition, ongoing data verification to meet onerous business case assessment and scrutiny by Waka Kotahi will likely see these sites priorities change. Furthermore, any future funding approval will be well beyond 2021/2022 construction season.

### Waka Kotahi (NZTA) Low-Cost-Low-Risk subsidised criteria

Preliminary funding requests under this Work Category 341 include activities such as Traction Seals, Bridge Approach Seals and Intersection Sealing for safety markings and minimizing loose gravel on high speed intersections etc.

To qualify seal extension works under Low-Cost-Low-Risk (LCLR) criteria the Capital construction cost demonstrate a savings over time vs current costs to maintain (i.e. positive benefit cost analysis). The following road sections are just a few examples under consideration;

- Doel Road, Masters Access Road, Pukewhai Road and Rotokawau Road State Highway intersections
- Hautapu Road, Omana Road, Parapara, Te Huia Marae Road and Wreck Bay Road traction seals.

• Duncan Road, Otaenga Road and Pupuke-Mangapa Roads and many other bridge approaches.

Waka Kotahi has confirmed a constrained National Land Transport Programme (NLTP) into the coming LTP budget. The funding requests to Waka Kotahi for Traction Seals and Bridge Approach Seals in 2021-2024 totals \$3,900,000 and is subject to change. While Councils may, on a case-by-case basis successfully demonstrate site(s) that meet cost-benefit, Waka Kotahi has consistently advised there is no additional budget. This leaves Councils to use the existing budgets for any LCLR seal extensions that qualify under WC341. Any more works (i.e. seal extensions) added to the LCLR program has the consequence of impacts to other work activities and associated levels of service.

Where the benefits outweigh the risk of impacts to other budgets this remains a very low option to the NTA, on discretion and where endorsed by Waka Kotahi to be compliant with criteria.

The annual Summer Dust Suppression works (Contract No. 7/20/209) remains a separate activity with separate approved funding (\$500,000 per annum for 2021/2024) and is not adversely affected by the recommendations contained in this Paper.

The sites completed last summer remain for repeat application and, where any updated Traffic Count data triggers other roads to qualify for Dust Suppressant (ref. FAQ Unsealed Road Pamphlet, Appendix 5), these will be reviewed to ensure any other house frontages are included accordingly.

### Take Tūtohunga / Reason for the recommendation

The reasons the above prioritised roads are being recommended are:

- The RSPF programme is new and unlikely to provide any funding to any applications. Consequently, all relevant RSPF categories are now incorporated into FNDC's assessment.
- The TIF applications will not provide funding this financial year. The significance of tourism is also being recognised in FNDC's Dust Matrix criteria.
- The subsidised NZTA applications will not provide funding approvals (if any) this financial year, due to extensive time and up-front investment required to complete Business Case studies.
- Apart from West Coast Road there are no known obvious overlaps that diminish opportunity for funding from other sources by proceeding with sites prioritised in this Paper.
- The current Dust Matrix represents the most comprehensive view of all stakeholder interests in the district and delivers the most balanced ranking of roads.
- Early approval of sites that extend across the full 2021-2024 LTP gives industry adequate lead in times for Council to gain the most cost-effective procurement and delivery planning of the respective site scoping, investigation & testing, material analysis & design options, through to final construction.

The risks associated to endorsing all three season's work funded under the 2021-2024 LTP are;

- that road ranking can change as-and-when new/additional information is available.
- West Coast Road may be eligible for funding under NZTA Circular 16.04 criteria.

To manage these risks Council may therefore decide to approve only the 1st financial year sites (i.e. 2021-2022), or years 1 and 2 (2021-2022 and 2022-2023), leaving further site prioritization available for updating as data continues to be added.

The indicative plan of constructing the West Coast Road site in 2022-2023 provides sufficient time (>18 months) before construction commences. This will enable the NTA to confirm Waka Kotahi's funding and, if successful, enable new sites to be added from the Dust Matrix. In addition, keeping this site in the plan for sealing enables the stages of work for Investigation and Testing (I&T) and Design to continue uninterrupted, giving significant benefits to Council in meeting completion dates.

Should the NTA be successful in obtaining Waka Kotahi funding a paper would be brought to Council presenting the most up-to-date Dust Matrix list for Council resolution on the next preferred seal extension site(s).

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

These works are currently assessed as being able to be funded with the available LTP budgets as seen the table below:

Financial Year	Sites	Available Budg	et = \$2,000,000
2021/22	Brass Road RP 50 to 1,725		\$1,455,00
	Parapara-Toatoa Road RP 62 to	1,185	
	Cash Flow adjustment to 2022-2023 =		

Financial Year	Sites	Revised Available Budg	et = \$2,605,000
2022/23	Oromahoe Road RP 1,478 to 2,682		\$2,480,000
	Pawarenga Road RP 11,903 to 13,583		
	West Coast Road RP 25,167 to 2		
	Cash Flow adjustment to 2023-2024 =		

Financial Year	Sites	Revised Available Budg	jet = \$2,238,600		
2023/24	Ruaroa Road RP 3,008 to 5,681		\$2,015,000		
	Hautapu Road RP 4,736 to 5,937				
	\$223,600				
Thora are no finan	Remaining for Contingency (or marae sites etc) = \$223,600				

There are no financial risks to Council in approving these works.

The NTA does note the industry will be experiancing future cost increases in bitumen. These costs are nation wide due to manufacturing and storage constraints affecting delivery of bitumen.

The quantum of any bitumen cost increases is as yet unknown, with overall project delivery to be managed within approved LTP budgets, noting that this may impact the total number of sites, or site lengths, able to be completed.

### **ĀPITIHANGA / ATTACHMENTS**

- 1. Marae Frontage Sites\_FNDC A3254676 🕂 🔛
- 2. Dust Matrix Sites\_FNDC A3254687 🖳 🎇
- 3. Tourism Infrastructure Sites\_TIF A3254690 🗓 🖾
- 4. Circular16.04 Sites\_NZTA A3254693 🗓 🛣
- 5. Unsealed Road FAQ Pamphlet A3254694 🗓 🛣

### 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.

He Take Ōkawa / Compliance	impliance with procedures in relation to decisions.
Requirement	Aromatawai Kaimahi / Staff Assessment
State the level of significance (high or	This proposal represents:
low) of the issue or proposal as	<ul> <li>no legislative requirement,</li> </ul>
determined by the <u>Council's</u>	• no change of ownership or control of a strategic asset,
Significance and Engagement Policy	<ul> <li>a potential to exceed financial thresholds,</li> </ul>
	• a potential to generate considerable community
	interest,
	<ul> <li>a potential to radically change the levels of service,</li> </ul>
	<ul> <li>consistency with existing plans and policies and</li> </ul>
	• the mandate that Council has to implement this
	proposal.
	Therefore the proposal is deemed to have a LOW level
	of significance.
State the relevant Council policies	Policy # 4116 – Dust Management
(external or internal), legislation, and/or community outcomes (as stated	Policy # 4106 – Road Maintenance     LTD 2021/25 Strategic Accest Priority 1: Seeled reads
in the LTP) that relate to this decision.	<ul> <li>LTP 2021/25, Strategic Asset Priority 1: Sealed roads</li> <li>LTP 2021/25, Strategic Asset Priority 6: Unsealed</li> </ul>
	roads.
State whether this issue or proposal	The proposal
has a District wide relevance and, if	has a District wide relevance.
not, the ways in which the appropriate	<ul> <li>is not subject to Community Board Delegations.</li> </ul>
Community Board's views have been	, , , , ,
sought.	
State the possible implications for Māori	With future decisions stemming from this proposal, Māori
and how Māori have been provided with	could:
an opportunity to contribute to decision	help with potential resource consent applications by
making if this decision is significant and	identifying relevant matters for assessment of
relates to land and/or any body of water.	Environment Effects,
State the possible implications and how	identify specific natural resources and/or sites of
this report aligns with Te Tiriti o Waitangi	cultural significance,
/ The Treaty of Waitangi.	<ul> <li>help with road legalisations, where future projects impact Māori land interests.</li> </ul>
Identify persons likely to be affected by	Road users, residents on unsealed roads, all commercial
or have an interest in the matter, and	transport operators, tourists, emergency services, road
how you have given consideration to	network operators.
	· ·

This section is subject to Section 79 - Compliance with procedures in relation to decisions.

their views or preferences (for example	
- youth, the aged and those with	
disabilities).	
State the financial implications and	FNDC URSF – 100% unsubsidised budget allocation in
where budgetary provisions have been	LTP 2021/25.
made to support this decision.	NZTA GC16.04 yet to be applied for. If successful, FNDC
	to contribute 33% local share.
	Development of NZTA GC16.04 funding application
	expected to be in the order of \$50K from unsubsidised
	funds.
Chief Financial Officer review.	The Chief Financial Officer has reviewed this report.

Marae Frontages to be Sealed
(as know at 30/6/2021)

APPENDIX 1

Te Iringa Road (includes Bridge approach)       450       1.065       615       vhigh priority       Parihaka Marae         Winkataha Road       1.260       1.750       490 vhigh priority       Tauwhara Marae         Smith Deviation Road       25,635       25,810       175       Vhigh priority       Naihou Marae         West Coast Road       25,635       25,817       200 vhigh priority       Naihou Marae         West Coast Road       25,927       226       Nigh priority       Naii Warae         Motukaraka Point Road (includes Our Lady of the Assump       0       300       Nigh Priority       Naii Warae         Wainui Road (kaitaia)       0       300       300 high priority       Wainui Marae       Wainui Marae         Wainapa Road (includes traction seal)       0       205       205 high priority       Te Huia Marae         Whatuwhiwhi Road       1.420       1.852       432 high priority       Haittaimarangai Marae         Wainapa Road (includes public toilets and beach access up (       0       300 priority       Watimame Marae         Horeke Road       9,600       9,910       300 priority       'Ukn name' Marae         Horeke Road       9,000       9,000 priority       'Ukn name' Marae         Horeke Road       9,000 <td< th=""><th>Road Name</th><th>Start</th><th>End</th><th>Length Length</th><th>NAME</th></td<>	Road Name	Start	End	Length Length	NAME
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FNDC Infrastructure Committee – 21 July 2021

FNDC 2021/24 Seal Extension Program

						_							1 of 29 Pr	inted on 19	/06/2021													A	PPENDIX 2
			R <i>i</i>	AMM DATA			-		-	-							FNDC UN	ISUBSIDIS	ED DMF (C	overing PG	F and TIF	Categories	s)						
										Factor of	Factor of		Factor of				Factor of												
ـــــــ		4	4	4	_ ا <b>ل</b>	ault	Default	Default	Default	Importan	Importan	Importan	Importan	Importan	Default	Default	Importan	Importan	Default	Default	Default	Default	Default	Default	Default	Default	Default	####	
		$\sim$	$\overline{\mathbf{v}}$	$\mathbf{\nabla}$		Data	Data	Data	Data	200%	200%	ce 100%	ce 100%	100%	Data	Data	ce 100%	ce 100%	Data	0	0	Data	Data	Data	Data	Data	Data		
Range of Data			-	-	14 - 2671	0 - 5	0-5	0-5	0-5	0 - 13	0 - 10	0-3	0-5	0-5	0-4	0-4	0 - 2	0-2	0-5	0 - 0	0-0	0-2	0 - 2	0-2	0-2	0 - 2	0-3	1 - 31	1 - 1810 1 - 1031
						0	25	20	30	0.025	0	0	0	0	0	0	open plains	More than 2	0	\$3,000	\$3,000,000	on this	NO RESILIENCE	NO RESIDENCE	No	0	0	0	
					F	1	26	21	31	0.075	0	0	0	0	1	1	some land	0-1 events	1-2	\$9,000	\$975,000	Road but no	On Resilience	On Resilience		1-2	1	1	1
						6	30	45	38	0.100	0	0	0	0	2	2	in land	Less than one	2-3	\$30,000	\$375,000	Road Sections	Road	Road	YES	>3	2	2	1
						11	40	85	50	0.150	0	1	0	0	3	3			3-5	\$106,000	\$112,500						3	3	
					9,477	26	50	185	68	0.300	0	0	0	0	4	4			5-7	\$371,000	\$37,501		L				4	4	_
	-					50	70	350	100	0.350	1	2	1	1	5	5	000.00	000005	7-10	\$1,295,000	\$37,500	00005	00000		00005	00005	5	5	
						SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCO RE Annual	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	PRIORITY PRIORITY
						HCV 5 day	нсу	LDV 5 day	Speed of	Houses	Schools	Maraes	Churches	Health	Ecological	Horicul-	Location	Frequency	Longevity	Mntence	Estimated	Tourism	Disaster	Network	Logging	Years of	Milk sheds	FNDC	FNDC Road Circular
Road Name	Location	Road ID	Start	End	Length	AADT	Speed	AADT	LDVs (Est)	within	FNDC	FNDC	FNDC	Centers	Areas	tural areas	of	of rain	of HCV	Cost	Sealing	Route	Resilience	Resilience	Route	Logging /	FNDC		Rating 16/04
						FNDC	FNDC	FNDC	FNDC	(300m				FNDC	FNDC	FNDC	Roadway	days	route	Prev 3 year	Cost	FNDC	FNDC	FNDC	FNDC	HCV Est.		0.000	FNDC Rating
										from road)							FNDC	FNDC	FNDC	av./km FNDC	FNDC					FNDC		OVERALL FNDC	
Brass Road		1555	50	1,725	1,675	4	5	3	5	4.35	0	0	0	0	0	1	0	2	5	0	0	0	0	0	0	0	2	31.35	1 15
Parapara-Toatoa Road		2133	62	1,725	1,075	3	4	4	4	3.25	0	3	5	0	0	0	2	1	0	0	0	0	0	2	0	0	0	31.35	2 39
Oromahoe Road		2092	1,478	2,682	1,204	4	5	3	5	2.10	0	0	0	0	0	0	2	2	5	0	0	0	0	2	0	0	1	31.10	3 16
Pawarenga Road	KOLLING	2143	11,903			3	3	3	3	6.95	0	3	0	5	0	0	2	1	0	0	0	0	1	0	0	0	0	30.95	4 145
West Coast Road Ruaroa Road	коникони	2543 2276	25,927	26,214	287	5	4	4	4	1.85	0	0	0	0	0	0	2	1	3	0	0	1 2	2	1 2	2	2	0	30.85 30.75	5 1 6 898
Hautapu Road		1743	4,736	· · · ·	1,201	3	4	3	4	4.10	0	0	0	0	0	0	2	2	5	0	0	0	0	2	0	0	1	30.10	7 146
Tokawhero Road		2452	35	2,272	2,237	3	2	2	3	6.10	0	3	5	0	0	0	0	1	2	0	0	0	0	0	2	1	0	30.10	8 256
Backriver Road		1516	2,045	3,771	1,726	3	0	4	1	3.75	0	3	5	0	0	0	2	1	2	0	0	0	0	2	2	1	0	29.75	9 429
Duncan Road	KAINGAROA	1656	1,577	2,029	452	4	3	4	3	0.65	0	0	0	0	0	0	2	2	3	0	0	2	0	2	2	2	0	29.65	10 17
Otaua Road		2107	3,073		1,193	3	4	4	4	2.65	0	3	5	0	0	0	0	0	0	0	0	0	0	2	2	0	0	29.65	11 147
Ruaroa Road Harris Road		2276 1738	2,240	2,645	405	1 3	5	3	5	0.60	0	0	0	0	0	0	2	1	5	0	0	2	2	2	0	0	1	29.60 29.55	12 430 13 40
Taheke Road		2359	14,781		474	3	4	3	4	0.55	10	3	0	0	0	0	1 0	1	5	0	0	2	2	0	0	0	1 0	29.55	13 40
Duncan Road	KAINGAROA	1656	2,926		2,671	3	0	3	1	7.45	0	0	0	0	0	1	2	2	3	0	0	1	0	2	2	2	0	29.45	15 258
Waimatenui / Mataraua Road		2600	8,820		1,077	4	4	3	4	2.25	0	3	0	0	0	0	1	0	1	0	0	0	2	2	2	1	0	29.25	16 41
West Coast Road	коникони	2543 2543	36,639 26,402		614 533	4	4	4	4	1.10	0	0	0	0	0	0	2	1	3	0	0	1	0	1	2	2	0	29.10	17 5 18 42
West Coast Road Orakau Road	KOHOKOHU	2545	5,546		346	3	5	3	5	1.00	0	0	0	0	0	0	2	1	3	0	0	0	2	0	2	2	0	29.00 29.00	18 42 19 74
Renwick Road	SIDE ROAD	2252	1,969	2,475	506	5	5	3	5	0.90	0	0	0	0	0	0	0	0	5	0	0	0	0	0	2	2	1	28.90	20 18
Ngapipito Road		2035 2415	10,334	<u> </u>	671	3	5	4	5	0.85	0	0	0	0	0	0	2	1	3	0	0	1	0	0	2	2	0	28.85 28.70	21 75 22 76
Te Irenga Road Diggers Valley Road		1639	18,356	1,149	1,089	3	2	3	3	1.60	0	0	0	0	0	0	0	2	5	0	0	0	2	0	2	0	1	28.60	22 76 23 259
Ngapipito Road		2035	9,144	<u> </u>	670	3	5	4	5	0.60	0	0	0	0	0	0	2	1	3	0	0	1	0	0	2	2	0	28.60	24 260
Ngapipito Road		2035	9,834	· · ·	384	3	5	4	5	0.40	0	0	0	0	0	0	2	1	3	0	0	1	0	0	2	2	0	28.40	25 77
Ngapipito Road Otangaroa Road		2035 2103	11,075 6,711	11,375	300	3	5	4	5	0.30	0	0	0	0	0	0	2	1	3	0	0	1	2	0	2	2	0	28.30 28.30	26 78 27 148
Imms Road	LAKE OMAP	1794	0,711	1,523	1,523	2	4	2	4	4.90	0	0	0	0	0	3	0	2	5	0	0	0	0	0	0	0	1	27.90	28 79
Diggers Valley Road		1639	382	,	883	4	2	3	3	3.55	0	0	0	0	0	0	2	2	2	0	0	1	2	0	2	1	0	27.55	29 19
Matai Bay Road Waikaramu Road		1968 2488	5,130	5,280	904	5	5	5	5	0.10	0	0	0	0	3	0	0	2	0	0	0	2	0	0	0	0	0	27.10 27.05	30 9 31 80
West Coast Road	коникони	2466	31,561		300	3	4	4	4	0.05	0	0	0	0	0	0	2	1	3	0	0	1	0	1	2	2	0	27.05	32 261
Honeymoon Valley Road		1778	5,310	6,327	1,017	3	2	4	3	2.00	0	0	0	0	0	1	2	1	4	0	0	0	1	0	2	2	0	27.00	33 262
Orakau Road		2201	14,673	14,822	149	3	5	2	5	0.00	0	0	0	0	0	0	2	1	3	0	0	0	2	0	2	2	0	27.00	34 431
Backriver Road		1516	8,163			3	5	3	5	0.80	0	0	0	0	0	0	2	1	2	0	0	0	0	2	2	1	0	26.80	35 81
lwitaua Road Pekerau Road	+	1796 2148	668 1,025			3	2	3	3	0.65	0	0	0	0	0	0	2	1 2	4	0	0	0	2	2	2	2	0	26.65 26.65	36 263 37 432
Ninihi Road		2046	4,554			4	5	3	5	1.55	0	0	0	0	0	0	0	1	2	0	0 0	0	0	2	2	1	0	26.55	38 20
Fosters Road		1694	0	845		2	4	3	4	5.55	0	0	0	0	0	0	0	2	5	0	0	0	0	0	0	0	1	26.55	39 43
Wakelin Road		2520	3,068	3,719		3	5	3	5	2.35	0	0	0	0	0	0	0	1	5	0	0	0	0	0	0	0	2	26.35	40 149
Rarawa Beach Road Honeymoon Valley Road	+	2236 1778	3,261			5	2	5	5	0.25	0	0	0	0	2	0	0	2	0	0	0	2	0	0	0	2	0	26.25 26.25	41 10 42 82
Whakataha Road		2551	1,100	1,690	590	3	5	3	5	6.15	0	3	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	26.15	43 21
Orakau Road		2201	15,504			5	3	3	3	0.15	0	0	0	0	0	0	2	1	3	0	0	0	2	0	2	2	0	26.15	44 150
Honeymoon Valley Road Diggers Valley Road	+	1778 1639	6,352 19,599			0	3	4 3	3	0.15	0	0	0	0	0	0	2	2	4	0	0	0	2	0	2	2	0	26.15 26.15	45 264 46 433
Ninihi Road		2046	2,506			4	3	3	4	1.05	0	0	0	0	0	0	0	1	5	0	0	0	0	1	2	1	1	26.05	47 83
Orakau Road		2201	6,336	-		3	4	3	4	0.05	0	0	0	0	0	0	2	1	3	0	0	0	2	0	2	2	0	26.05	48 265
Otangaroa Road		2103	6,401			3	4	4	4	0.05	0	0	0	0	0	0	1	1	2	0	0	0	2	2	2	1	0	26.05	49 434
West Coast Road	коникони	2543	28,360			4	3	4	3	0.00	0	0	0	0	0	0	2	1	3	0	0	1	0	1	2	2	0	26.00	50 151
Waimanoni Road		2499	0	615		1	5	2	5	6.95	0	3	0	0	0	1	0	2	0	0	0	0	0	0	0	0	0	25.95	51 22
Purer ua Road Henare Road		2205 1753	9,893 194			5	5	5	5	0.90	0	0	0	0	1 0	0	0	2	0	0	0	2	0	0	0	0	0	25.90 25.90	52 2 53 44
Ruaroa Road	+	2276	620	-		3	5	3	5	0.90	0	0	0	0	0	0	2	1	0	0	0	2	2	2	0	0	0	25.90	53 44
West Coast Road	коникони	2543	32,865			3	3	4	3	0.85	0	0	0	0	0	0	2	1	3	0	0	1	0	1	2	2	0	25.85	55 267
Dick Urlich Road		1637	509	1,203	694	3	4	3	4	1.75	0	0	0	0	1	1	0	2	5	0	0	0	0	0	0	0	1	25.75	56 45
Otangaroa Road West Coast Road	коникони	2103 2543	8,439 33,801		1,171	3	2	3 4	3	3.75 0.75	0	0	0	0	0	0	1 2	1	2	0	0	0	2	2	2	2	0	25.75 25.75	57 152 58 268
Heath Road	INDIT UKUHU	2543	2,568			2	4	2	4	1.70	0	0	0	0	0	1	1	2	5	0	0	1	0	1	2	0	0	25.75	58 268
Heath Road	1	1751	3,649			2	4	2	4	0.65	0	0	0	0	0	1	1	2	5	0	0	1	0	2	0	0	1	25.65	60 153
	-	1.11		.,		<u> </u>	· · ·													-					-	-			4

				RAMM DATA	٨								2 of 29 Pri	inted on 19	06/2021					overing PG	E and TIE (	Catoronios	-1					A	PEN	DIX 2
			_		4		-												ED DIWF (C	overing PG		categories	»)							
						ault	Default	Default	Default	Factor of	Factor of	Factor of Importan	Factor of Importan	Factor of Importan	Default	Default	Factor of	Factor of Importan	Default	Default	Default	Default	Default	Default	Default	Default	Default	####		
۲ 🕨		$\mathbf{\mathbf{d}}$	· ح 🍡	, d 🌗	·		Delaun	Delaute	Delaute	ce	ce	ce	ce	ce	Deluan	Delaun	Importan ce	ce	Delaure	Delaute	Deluait	Deluan	Delutit	Delaun	Delaute	Delaun	Derduit	****		
		$\sim$	$\sim$			Data	Data	Data	Data	200%	200%	100%	100%	100%	Data	Data	100%	100%	Data	0	0	Data	Data	Data	Data	Data	Data			
Range of Data					14 - 2671	0 - 5	0 - 5	0 - 5	0 - 5	0 - 13	0 - 10	0 - 3	0 - 5	0 - 5	0 - 4	0 - 4	0 - 2	0 - 2	0 - 5	0 - 0	0 - 0	0 - 2	0 - 2	0 - 2	0 - 2	0 - 2	0 - 3	1 - 31	1 - 1810	1 - 1031
-						0	25	20	30	0.025	0	0	0	0	0	0	open plains or coastal	More than 2 events per	0	\$3,000	\$3,000,000	on this	NO RESILENCE	NO RESIDENCE Road	No	0	0	0		
						1	26	21	31	0.075	0	0	0	0	1	1	some land	0-1 events	1-2	\$9,000	\$975,000	Road but no	Pogd but no.	Poad but no		1-2	1	1	4	
						6	30	45	38	0.100	0	0	0	0	2	2	enclosed	event even	2-3	\$30,000	\$375,000	Sections	Sections	Sections	YES	>3	2	2	4	
						26	40	85	50 68	0.150	0	1	0	0	3	3			3-5	\$106,000	\$112,500 \$37,501						3	3	-	
					9,477	50	70	350	100	0.350	1	2	1	1	5	5			7-10	\$1,295,000	\$37,501						5	5	1	
			1		1	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	PRIORITY	PRIORITY
																				Annual										1
						HCV 5 day	HCV	LDV 5 day	Speed of	Houses	Schools	Maraes	Churches	Health	Ecological	Horicul-	Location	Frequency	Longevity	Mntence	Estimated	Tourism	Disaster	Network	Logging	Years of	Milk sheds	FNDC	FNDC Road	Circular
Road Name	Location	Road ID	Start	End	Length	AADT FNDC	Speed FNDC	AADT FNDC	LDVs (Est) FNDC	within (300m	FNDC	FNDC	FNDC	Centers FNDC	Areas FNDC	tural areas FNDC	of Roadway	of rain days	of HCV route	Cost Prev 3 year	Sealing Cost	Route FNDC	Resilience FNDC	Resilience FNDC	Route FNDC	Logging / HCV Est.	FNDC		Rating FNDC	16/04 Rating
						inde		1100	11100	from					mbe	mbe	FNDC	FNDC	FNDC	av./km	FNDC	mbe	11100	1 MDC	1 MDC	FNDC		OVERALL	1100	huting
										road)										FNDC								FNDC		
Diggers Valley Road		163	<u>´</u>	<u>/</u>		2	5	1	5	0.60	0	0	0	0	0	0	2	2	2	0	0	1	2	0	2	1	0	25.60	61	85
Otangaroa Road Ruaroa Road	+	210		<u>´</u>		3	4	3	4	0.60	0	0	0	0	0	0	1 2	1	2	0	0	0	2	2	2	1 0	0	25.60 25.60	62 63	154
Hawkins Road	коникони	174	´	46 81	_	3	5	3	5	2.55	0	0	0	0	0	0	0	1	5	0	0	0	0	0	0	0	0	25.60	63	155 86
Arawhata Road		305	7 2	85 1,25	4 969	2	4	3	4	7.40	0	0	0	0	1	1	1	2	0	0	0	0	0	0	0	0	0	25.40	65	6
Diggers Valley Road		163				3	3	3	3	0.40	0	0	0	0	1	0	2	2	2	0	0	1	2	0	2	1	0	25.40	66	156
Rakauwahia Road Waiare Road	+	221				2	3	3	5	2.40	0	0	0	0	0	0	0	1	5	0	0	0	0	0	0	0	2	25.40 25.40	67 68	435 436
Backriver Road		151	´			3	0	4	0	8.30	0	0	0	0	0	0	2	1	2	0	0	0	0	2	2	1	0	25.30	69	663
Horeke Road		178				3	3	3	3	3.25	0	3	0	0	0	0	0	1	0	0	0	2	2	2	0	0	0	25.25	70	269
Motukaraka Point Road Pekerau Road		202		33 1,99 17 2,24			3	2	3	7.20	0	3	5	0	0	0	2	2	0	0	0	0	0	0	0	0	0	25.20 25.20	71 72	270 271
Horeke Road		178	· · · ·			3	5	3	5	0.05	0	0 0	0	0	0	0	2	1	0	0	0	2	2	2	0	0	0	25.05	73	664
Horeke Road		178	´	· · ·	-	3	5	3	5	0.05	0	0	0	0	0	0	2	1	0	0	0	2	2	2	0	0	0	25.05	74	665
lwitaua Road Pawarenga Road		179 214		0 6		2	3	2	3	0.05	0	0	0	0	0	0	2	1	4	0	0	0	2	2	2	2	0	25.05 25.00	75	899 157
Waimatenui / Mataraua Road		260				4	0	3	2	1.95	0	0	0	0	0	0	1	0	5	0	0	0	2	2	2	1	1	24.95	70	157
Orakau Road		220				3	0	3	2	0.80	0	0	0	0	1	0	2	1	5	0	0	0	2	0	2	2	1	24.80	78	272
Fisher-Riley Road Ninihi Road		168 204				4	5	2	5	0.70	0	0	0	0	1	1	2	2	0	0	0	2	0	0	0	0	0	24.70 24.70	79 80	7 46
Waima Valley Road		249				5	3	3	3	3.65	0	0	5	0	0	0	0	0	0	0	0	0	0	2	0	0	0	24.65	81	87
Orakau Road		220				3	3	3	3	0.65	0	0	0	0	0	0	2	1	3	0	0	0	2	0	2	2	0	24.65	82	273
Otangaroa Road Tangonge Road		210		97 2,79 56 93		3	3	4	3	0.60	0	0	0	0	0	0	1 0	1 2	2	0	0	0	2	2	2	1 0	0	24.60 24.55	83 84	437 88
Otangaroa Road		210		_	-	3	3	3	3	1.55	0	0	0	0	0	0	1	1	2	0	0	0	2	2	2	1	0	24.55	85	159
Otangaroa Road		210		64 85		3	3	3	3	0.55	0	0	0	0	1	0	1	1	2	0	0	0	2	2	2	1	0	24.55	86	274
Mangatoetoe Road Renwick Road	SIDE ROAD	193 225		23 3,24 0 75		2	4	3	2	1.55	0	0	0	0	1	0	2	1	3	0	0	0	0	2	2	2	1	24.55 24.50	87 88	666 23
Duncan Road	KAINGAROA	165		_		0	0	2	2	1.50	0	0 0	5	0	0	1	2	2	3	0	0	1	0	1	2	2	0	24.45	89	275
Horeke Road		178				3	3	3	3	0.45	0	3	0	0	0	0	2	1	0	0	0	2	2	2	0	0	0	24.45	90	438
Church Road Hauriri Road	KAITAIA	159				2	5	3	2	0.30	0	0	0	0	0	0	1	2	0	0	0	0	0	1	0	0	0	11.30 24.35	91 92	439 89
Te Tio Road		243	_	_		5	4	3	4	1.30	0	0	0	0	0	0	0	1	5	0	0	0	0	0	0	0	1	24.30	93	24
West Coast Road	коникони	254		<u>´</u>		5	1	4	2	0.30	0	0	0	0	0	0	2	1	3	0	0	1	0	1	2	2	0	24.30	94	90
Diggers Valley Road Ruaroa Road	_	163			-	3	3	3	3	0.30	0	0	0	0	0	0	2	2	2	0	0	1	2	0	2	1 0	0	24.30 24.30	95 96	160
Waiotemarama Gorge Road		251				3	1	3	2	5.30	0	0 0	0	0	1	0	2	1	1	0	0	0	0	2	2	1	0	24.30	97	91
Ngataki Road		203				2	5	3	5	1.25	0	0	0	0	0	0	0	2	5	0	0	0	0	0	0	0	1	24.25	98	47
Marlow Road West Coast Road	коникони	194 254		0 99 67 25,48	-	3	0	3	2	5.25 1.20	0	0	0	0	0	0	2	2	5	0	0	0	0	0	2	0	1 0	24.25 24.20	99 100	162 48
Pipiwai Road		234				3	3	3	4	0.20	0	3	0	0	0	0	2	1	2	0	0	0	0	0	2	1	0	24.20	100	40
Akerama Road		149	0 3	28 47	8 150	2	5	3	5	0.15	0	0	0	0	0	0	0	2	3	0	0	0	0	0	2	2	0	24.15	102	276
Pipiwai Road		216				3	5	3	5	0.15	0	0	0	0	0	0	2	1	2	0	0	0	0	0	2	1	0	24.15	103	667
Hariru Road West Coast Road	коникони	173				3	4	3	4	3.05	0	0	0	0	0	0	0	1	5	0	0	0	0	0	0	0	1 0	24.05 24.05	104	277 278
Otangaroa Road		234		46 27,54 03 26	-	3	3	4	3	0.05	0	0	0	0	0	0	1	1	2	0	0	0	2	2	2	1	0	24.05	105	900
Kohumaru Road		186	2 19,5	66 19,95	7 391	0	5	4	5	1.90	0	0	0	0	0	0	2	1	2	0	0	0	0	0	2	1	0	23.90	107	163
Waiotemarama Gorge Road		251		54 76		3	3	3	3	1.80	0	0	0	0	1	0	2	1	1	0	0	0	0	2	2	1	0	23.80	108	49
Waitaheke Road Clough Road	+	251		0 1,92 28 80		4	3	3	3	3.70 0.60	0	0	0	0	0	0	0	1 2	5	0	0	0	0	0	0	0	1 0	23.70 23.60	109 110	441
Smith Road	MOEREWA	232		56 2,07		2	2	2	3	2.40	0	0	0	0	0	0	0	1	5	0	0	0	0	0	2	1	3	23.40	110	901
Horeke Road		178		<u>/</u>		3	4	3	4	0.35	0	0	0	0	0	0	2	1	0	0	0	2	2	2	0	0	0	23.35	112	279
Takou Bay Road Diggers Valley Road	+	237					5	4	5	0.30	0	0	0	0	0	0	0	1 2	2	0	0	0	0	0	2	1	0	23.30 23.30	113 114	164 1167
Ngapipito Road		203					2	3	3	0.30	0	0	0	0	0	0	2	1	3	0	0	1	0	0	2	2	0	23.25	114	280
Mangakaretu Road		192	7 1,3	43 1,73	0 387	2	5	3	5	0.25	0	0	0	0	0	0	0	1	5	0	0	1	0	0	0	0	1	23.25	116	442
Aurere Beach Road Iwitaua Road	-	151		0 54		5	4	5	4	3.20 0.20	0	0	0	0	0	0	0	2	0 4	0	0	0	0	0	0	0	0	23.20 23.20	117 118	3 443
Orakau Road		220				2	3	3	3	0.20	0	0	0	0	0	0	2	1	3	0	0	0	2	0	2	2	0	23.20	118	902
Quarry Road	KAIKOHE	220	9 2	42 62	3 381	3	5	5	4	2.10	0	0	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	23.10	120	25
Ludbrooks Road Diggers Valley Road	LOOP	191		0 1,78		3	5	3	5	6.10 0.10	0	0	0	0	0	0	0	1 2	0	0	0	0	2	0	0	0	0	23.10 23.10	121 122	165 444
Snelgar Road		232		0 2,34			2	3	3	3.05	0	0	0	0	0	0	1	2	5	0	0	0	0	0	0	0	1	23.05	122	444 445
			-			· · · · · · · · · · · · · · · · · · ·	-				-										-					-				

			D/	AMM DATA									3 of 29 Pri	inted on 19	06/2021					overing PG	E and TIE (	Catagorias						A	PPEN	IDIX 2
			K/								I	<b>a b b b</b>		<b>.</b>						overing PG		categories	5)							
						ault	Default	Default	Default	Factor of	Factor of	Factor of Importan	Factor of Importan	Factor of Importan	Default	Default	Factor of	Factor of Importan	Default	Default	Default	Default	Default	Default	Default	Default	Default	####		
۲ 🕨				<b>&lt;</b>	<u>ر ک</u>					ce	ce	ce	ce	ce			ce	ce												
						Data	Data	Data	Data	200%	200%	100%	100%	100%	Data	Data	100%	100%	Data	0	0	Data	Data	Data	Data	Data	Data			
Range of Data					14 - 2671	0 - 5	0 - 5	0 - 5	0 - 5	0 - 13	0 - 10	0 - 3	0 - 5	0 - 5	0 - 4	0 - 4	0 - 2 open plains	0 - 2 More than 2	0 - 5	0 - 0	0 - 0	0 - 2	0 - 2	0 - 2 No Resilience	0 - 2	0 - 2	0 - 3	1 - 31	1 - 1810	1 - 1031
						0	25	20	30	0.025	0	0	0	0	0	0	or coastal some land	ovents ner 0-1 events	0	\$3,000	\$3,000,000	on this	Doad On Resilience	Do ad On Resilience	No	0	0	0	-	
					ŀ	6	26 30	21 45	31 38	0.075	0	0	0	0	1	2	featurer in land	Less than one	1-2 2-3	\$9,000 \$30,000	\$975,000 \$375,000	Road but no Road	Road but no	Road	YES	1-2 >3	1	1	-	
					ŀ	11	40	85	50	0.150	0	1	0	0	3	3	anclased	event even	3-5	\$106,000	\$112,500	Sections	Cortions	Sections	1.5		3	3	1	
					9,477	26	50	185	68	0.300	0	0	0	0	4	4			5-7	\$371,000	\$37,501						4	4	1	
						50	70	350	100	0.350	1	2	1	1	5	5			7-10	\$1,295,000	\$37,500						5	5	1	
						SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	PRIORITY	PRIORITY
						HCV 5 day	нсу	LDV 5 day	Speed of	Houses	Schools	Maraes	Churches	Health	Ecological	Horicul-	Location	Frequency	Longevity	Annual Mntence	Estimated	Tourism	Disaster	Network	Logging	Years of	Milk sheds	FNDC	FNDC Road	Circular
Road Name	Location	Road ID	Start	End	Length	AADT	Speed	AADT	LDVs (Est)	within	FNDC	FNDC	FNDC	Centers	Areas	tural areas	of	of rain	of HCV	Cost	Sealing	Route	Resilience	Resilience	Route	Logging /	FNDC		Rating	16/04
						FNDC	FNDC	FNDC	FNDC	(300m				FNDC	FNDC	FNDC	Roadway	days	route	Prev 3 year	Cost	FNDC	FNDC	FNDC	FNDC	HCV Est.		OVERALL	FNDC	Rating
										from road)							FNDC	FNDC	FNDC	av./km FNDC	FNDC					FNDC		OVERALL FNDC		1 1
Rakauwahia Road		2219	4,756	5,119	363	2	5	3	5	0.05	0	0	0	0	1	0	0	1	5	0	0	0	0	0	0	0	1	23.05	124	668
Takou Bay Road		2374	3,785	3,924		3	5	4	5	0.00	0	0	0	0	0	0	0	1	2	0	0	0	0	0	2	1	0	23.00	125	446
Waimamaku Beach Road		2498	1,176	<u> </u>		2	2	2	3	0.95	0	0	5	0	1	0	0	1	5	0	0	0	0	0	0	0	1	22.95	126	447
Mangakaretu Road Mangatawa Road		1927 1934	6,843 726	7,379	536	2	3	3	3	1.95 6.90	0	0	0	0	0	0	0	1 0	5	0	0	2	0	0	0	0	2	22.95 22.90	127 128	669 92
Honeymoon Valley Road		1778	4,263	5,082	819	3	0	4	2	0.90	0	0	0	0	0	1	2	1	4	0	0	0	1	0	2	2	0	22.90	129	281
Akerama Road	KOHUKOU	1490	752		504	1	4	2	4	1.80	0	0	0	0	0	0	1	2	3	0	0	0	0	0	2	2	0	22.80	130	50
West Coast Road Ohuri Road	коникони	2543 2057	35,482		590 311	2	0 5	4	1 4	1.80 0.80	0	0	0	0	0	0	2	1	3	0	0	1 0	0	1 0	2	2	0	22.80 22.80	131 132	93 282
West Coast Road	коникони	2543			506	1	2	2	3	1.70	0	0	0	0	0	0	2	2	3	0	0	1	0	1	2	2	0	22.70	133	94
Barriball Road	ORURU	1523	0	1,049	1,049	2	4	2	4	2.70	0	0	0	0	0	0	0	2	5	0	0	0	0	0	0	0	1	22.70	134	166
Pakaru Road Tapuhi Road		2123 2384	4,612	5,198 2,892	586 518	2	5	2	5	0.70	0	0	0	0	0	0	1	1 0	5	0	0	0	0	0	0	0	1	22.70 22.70	135 136	448 449
Oromahoe Road		2092	2,374	1,136	919	4	4	3	4	1.65	0	0	0	0	0	0	2	2	0	0	0	0	0	2	0	0	0	22.65	130	51
Horeke Road		1785	9,701	10,314	613	3	2	3	3	1.65	0	3	0	0	0	0	0	1	0	0	0	2	2	2	0	0	0	22.65	138	283
Waikare Valley Road		2485	390		1,077	3	0	3	2	1.65	10	0	0	0	0	0	0	1	0	0	0	2	0	0	0	0	0	22.65	139	670
Mangakaretu Road Taumata Road	+	1927 2394	5,418		938 482	2	4	3	4 3	0.60	0	0	0	0	0	0	2	1	5	0	0	2	0	0	0	0	1	22.60	140	450 671
Whatuwhiwhi Road	NORTH	3029	1,067		785	4	4	3	4	2.55	Ő	3	0	0	Ő	0	0	2	0	0	0	0	0	0	0	0	0	22.55	142	26
Russek Road Heath Road		2280 1751	26	476	450	3	5	2	5	0.50	0	0	0	0	0	0	0	1 2	5	0	0	0	0	0	0	0	1	22.50 22.40	143 144	451 95
Marlow Road		1948	1,145			3	3	3	3	1.40	0	0	5	0	0	0	2	2	0	0	0	0	0	0	0	0	0	22.40	144	167
Punakitere Loop Road		2200	1,771		1,786	2	2	3	3	3.40	0	0	0	0	0	0	0	1	5	0	0	0	0	2	0	0	1	22.40	146	672
Paniora Road Duddy Road	+	2127	0	625 1,079	625	1	5	1 4	5	3.35	0	0	0	0	0	0	2	1	5	0	0	0	0	0	0	0	1 0	22.35 22.35	147 148	284 452
Oromahoe Road		2092	3,516	3,814	298	5	4	3	4	0.30	0	0	0	0	0	0	2	2	0	0	0	0	0	2	0	0	0	22.30	149	27
lwitaua Road Oromahoe Road		1796 2092	2,290 2,917	2,567	277	2	0	3	2	0.30	0	0	0	0	0	0	2	1 2	4	0	0	0	2	2	2	2	0	22.30 22.30	150 151	673 674
Waima Valley Road		2497	2,517	583		3	4	4	4	5.25	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	22.25	151	96
Mangakaretu Road	NORTH	1927	5,061	· · ·		2	4	3	4	0.25	0	0	0	0	0	0	0	1	5	0	0	2	0	0	0	0	1	22.25	153	453
Rawhiti Road Rakauwahia Road	NORTH	2240 2219	802 5,245	1,104 5,840	302	4	3	4	3	0.20	0	0	0	0	2	0	0	2	1 5	0	0	0	0	0	2	0	0	22.20 22.20	154	97 454
Salvation Road	WHANGAR	2289	925	1,681	756	2	3	2	4	1.20	0	0	0	0	0	0	0	1	5	0	0	0	0	0	2	1	1	22.20	156	675
Waiare Road Rusk Road		2484 3044	15,635 2,512	15,847 3,173	212	2	5	3	5	0.15	0	0	0	0	1 0	0	0	0	0	0	0	2	2	2	0	0	0	22.15 22.15	157 158	676 903
Martin Road	KAEO	1957	5,182			3	5	3	5	0.05	0	3	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	22.05	150	455
Duncan Road Rakauwahia Road	KAINGAROA	1656 2219	2,270 7,995			0	0	4	2	1.05 0.05	0	0	0	0	0	0	2	2	3	0	0	2	0	2	2	2	0	22.05	160 161	677 678
Orakau Road		2219	2,365			3	1	4	2	0.05	0	0	0	0	0	0	2	1	3	0	0	0	2	0	2	2	0	22.05 22.05	161	904
Heath Road		1751		1,839	362	2	5	2	5	1.00	0	0	0	0	0	1	1	2	0	0	0	2	0	1	0	0	0	22.00	163	98
Henderson Bay Road Pipiwai Road		1754 2164		,	1,916	3	2	4 3	3	6.00 0.00	0	0	0	0	0	0	0	2	0	0	0	2	0	0	0	0	0	22.00 22.00	164 165	168 285
Waikare Road		2491	14,955	15,056	101	3	5	3	5	0.00	0 0	0	0	0	2	0	1	1	0	0	0	0	2	0	0	0	0	22.00	166	286
Rakauwahia Road		2219 2121	6,030 340			3	5	2	5	0.00 2.95	0	0	0	0	0	0	0	1	5	0	0	0	0	0	0	0	1	22.00 21.95	167 168	905
Pairatahi Road Diggers Valley Road		1639				4 3	1	3	2	0.90	0	0	0	0	0	0	2	2	0	0	0	0	2	0	2	0	0	21.95	168	28 456
Rahiri Settlement Road		2214	896	2,008	1,112	1	3	3	3	10.90	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	21.90	170	457
Stanners Road Horeke Road		2340 1785	4,206			1	5	2	5	0.90	0	0	0	0	0	0	0	1	5	0	0	0	0	1 2	0	0	1 0	21.90 21.90	171 172	458 679
Waiotemarama Gorge Road		2510	7,950	, <u> </u>		3	0	3	0	0.80	0	0	0	0	1	0	2	1	5	0	0	0	0	2	2	1	1	21.80	172	680
Rusk Road		3044	,	· · ·		2	3	3	4	0.80	0	0	0	0	0	0	0	1	5	0	0	0	0	2	0	0	1	21.80	174	906
Leacock Road Diggers Valley Road		1898 1639	16 2,269			2	5	1	4 3	2.75	0	0	0	0	0	0	0	2	5	0	0	0	0	0	0	0	1 0	21.75 21.70	175	99 287
Hautapu Road		1743	3,551	4,697	1,146	3	3	3	4	2.70	0	ő	0	Ő	0	0	2	2	0	0	0	0	0	2	0	0	0	21.70	177	459
Te Paki Stream Road	_	2424	126			4	2	5	3	0.65	0	0	0	0	1	0	2	2	0	0	0	2	0	0	0	0	0	21.65	178	29
Potahi Road Te Ahu Road	+	3087 2408	182 495			2	4	3	4	4.65 0.65	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	21.65 21.65	179 180	52 100
Kitchen Road		1860	0	738	738	3	2	3	3	1.65	0	0	0	0	0	0	0	1	1	0	0	0	2	2	2	1	0	21.65	181	460
Diggers Valley Road		1639	,	,		3	0	3	2	1.60	0	0	0	0	0	0	2	2	2	0	0	1	2	0	2	1	0	21.60	182	169
Honeymoon Valley Road Hicks Road		1778 1758			420	3	0	3	2	1.60 0.60	0	0	0	0	0	0	2	1	4 3	0	0	0	1 0	0	2	2	0	21.60 21.60	183 184	170 288
Waimatenui / Mataraua Road		2600	11,922	12,520	598	4	0	3	1	1.60	0	3	0	0	0	0	1	0	1	0	0	0	2	2	2	1	0	21.60	185	289
Bolero Road		1547	0	335	335	1	5	2	4	0.50	0	0	0	0	0	0	1	2	5	0	0	0	0	0	0	0	1	21.50	186	290

				RAMM	DATA									4 of 29 Pri	inted on 19/	06/2021					overing PG	E and TIE (	Catagorias						A	PPEN	IDIX 2
		_	_	RAMIN	DATA						In the d	[ <b>5</b> - 1 (	[ (	<b>r</b> 1 - 1	<b>5 4 6</b>					ED DWF (C	overing PG		categories	5)	-			1			
							ault	Default	Default	Default	Factor of	Factor of	Factor of Importan	Factor of Importan	Factor of Importan	Default	Default	Factor of Importan	Factor of Importan	Default	Default	Default	Default	Default	Default	Default	Default	Default	####		
۲ 🕨		<b>T</b>	· < ]	トイ		4		Denum	Derutar	Denum	ce	ce	ce	ce	ce	Deruan	Denuan	ce	ce	beloant	Denum	Denualit	Dendunt	- Crutare	bendunt	Denun	Denum				
							Data	Data	Data	Data	200%	200%	100%	100%	100%	Data	Data	100%	100%	Data	0	0	Data	Data	Data	Data	Data	Data			
Range of Data						14 - 2671	0 - 5	0 - 5	0 - 5	0 - 5	0 - 13	0 - 10	0 - 3	0 - 5	0 - 5	0 - 4	0 - 4	0 - 2 open plains	0 - 2 More than 2	0 - 5	0 - 0	0 - 0	0 - 2	0 - 2	0 - 2	0 - 2	0 - 2	0 - 3	1 - 31	1 - 1810	1 - 1031
						-	0	25	20	30	0.025	0	0	0	0	0	0	or coastal some land	ovents per 0-1 events	0	\$3,000	\$3,000,000	on this	On Resilience	e On Résilience	No	0	0	0	-	
						H	6	26 30	21 45	31 38	0.075	0	0	0	0	2	1	featurer in land	Less than one	1-2 2-3	\$9,000 \$30,000	\$975,000 \$375,000	Road but no Road	Road but no	Road	YES	1-2 >3	1 2	1	-	
						F	11	40	85	50	0.150	0	1	0	0	3	3	onclosed	avent even	3-5	\$106,000	\$112,500	Sections	Sections	Sections			3	3	1	
						9,477	26	50	185	68	0.300	0	0	0	0	4	4			5-7	\$371,000	\$37,501						4	4	1	
	_						50	70	350	100	0.350	1	2	1	1	5	5			7-10	\$1,295,000	\$37,500						5	5		
							SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCO RE Annual	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	PRIORITY	PRIORITY
							HCV 5 day	нсv	LDV 5 day	Speed of	Houses	Schools	Maraes	Churches	Health	Ecological	Horicul-	Location	Frequency	Longevity	Mntence	Estimated	Tourism	Disaster	Network	Logging	Years of	Milk sheds	FNDC	FNDC Road	Circular
Road Name	Location	Road ID	Start	t   E	End	Length	AADT	Speed	AADT	LDVs (Est)	within	FNDC	FNDC	FNDC	Centers	Areas	tural areas	of	of rain	of HCV	Cost	Sealing	Route	Resilience	Resilience	Route	Logging /	FNDC		Rating	16/04
							FNDC	FNDC	FNDC	FNDC	(300m from				FNDC	FNDC	FNDC	Roadway FNDC	days FNDC	route FNDC	Prev 3 year av./km	Cost FNDC	FNDC	FNDC	FNDC	FNDC	HCV Est. FNDC		OVERALL	FNDC	Rating
											road)										FNDC								FNDC		
Horeke Road		178		613	4,963	350	3	2	3	3	1.50	0	0	0	0	0	0	2	1	0	0	0	2	2	2	0	0	0	21.50	187	291
Pipiwai Road Otangaroa Road		216		_	12,106	391 697	2	4	3	4	0.50	0	0	0	0	0	0	2	1	2	0	0	0	0	0	2	1	0	21.50 21.50	188 189	292 461
Barnes Road		152		232	1,382	150	4	3	3	3	1.45	0	0	0	0	0	0	0	1	5	0	0	0	0	0	0	0	1	21.50	189	53
Bell Road	KOLUKOU	153		651	2,193	542	1	5	2	5	0.35	0	0	0	0	0	0	0	2	5	0	0	0	0	0	0	0	1	21.35	191	907
West Coast Road Ruaroa Road	коникони	254		455	29,605 203	150 203	3	0	4 3	2	0.30	0	0	0	0	0	0	2	1 1	3	0	0	1 2	0	2	2	2	0	21.30 21.30	192 193	293 462
Kokohuia Road		186	9	164	1,560	1,396	1	1	2	2	13.25	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	21.25	194	463
West Coast Road Puheke Road	коникони	254 218		359	34,707 261	348 261	4	0	4	1 3	0.25	0	0	0	0	0	0	2	1 2	3	0	0	1	0	1	2	2	0	21.25 21.20	195 196	464 30
Duncan Road	KAINGAROA	165	6 15,	_	15,300	300	3	0	2	2	0.20	0	0	0	0	0	1	2	2	3	0	0	1	0	1	2	2	0	21.20	197	171
West Coast Road Big Flat Road	коникони	254 153		239 196	36,539 1,346	300 150	4	0	4	1	0.20	0	0	0	0	0	0	2	1 2	3	0	0	1	0	1 0	2	2	0	21.20 21.20	198 199	172 681
Ruaroa Road	+	227		008	3,308	300	1	4	3	4	0.20	0	0	0	0	0	0	2	1	0	0	0	2	2	2	0	0	0	21.20	200	682
Spains Road		233		962	3,262	300	4	5	3	5	0.15	0	0	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	21.15	201	173
Renwick Road Diggers Valley Road	SIDE ROAD	225		046 10	1,346 310	300 300	5	3	3	3	0.15	0	0	0	0	0	0	0	0	3	0	0	0	0	0	2	2	0	21.15 21.15	202 203	294 465
Wainui Road	WAINUI	250	2	0	354	354	5	4	5	4	2.10	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	21.10	204	4
Kowhitikaru Road Rangihoua Road		187		31	1,982 3,417	1,951 300	4	3	3	4	5.10	0	0	0	0	2	0	1	2	0	0	0	0	0	0	0	0	0	21.10 21.05	205	174 54
Karuhiruhi Road		183		0	351	351	1	5	1	5	2.05	0	0 0	0	0	0	0	0	1	5	0	0	0	0	0	0	0	1	21.05	207	175
Clough Road Spirits Bay Road		160 233		130	298 150	168 150	2	5	3 4	5	0.05	0	0	0	0	0	0	2	2	0	0	0	0	0	2	0	0	0	21.05 21.00	208	466
Clough Road	-	160		237	2,747	510	3	4	3	4	1.00	0	0	0	0	0	0	2	2	0	0	0	0	0	2	0	0	0	21.00	210	176
Spains Road		233		287	3,356	69	4	5	3	5	0.00	0	0	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	21.00	211	177
Kohumaru Road Takou Bay Road	-	186		502 186	8,281 4,840	779	3	3	3	3	1.00	0	0	0	0	0	0	2	1	2	0	0	0	0	0	2	1	0	21.00 21.00	212 213	467
Puia Street		218		270	746	476	5	0	5	2	7.90	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	20.90	214	31
Hautapu Road Paponga Road	+	174		937 311	1,473 14,193	536 882	3	4	3	4	0.90	0	0	0	0	0	0	2	2	0	0	0	0	0	2	0	2	0	20.90 20.85	215 216	295 469
Ngataki Road		203		851	1,240	389	3	3	3	3	0.80	0	0	0	0	0	0	0	2	5	0	0	0	0	0	0	0	1	20.80	217	296
Kimberley Road Taumata Road		185 239		440 498	4,255	1,815 300	3	2	3	3	4.75 0.70	0	0	0	0	0	1	0	2	0	0	0	0	0	2	0	0	0	20.75 20.70	218 219	297 178
Waima Valley Road		249		804	1,231	427	3	5	4	5	1.70	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	20.70	219	178
Duddy Road		165		629	1,929	300	3	3	4	3	0.70	0	0	0	0	0	0	2	1	1	0	0	0	0	0	2	1	0	20.70	221	470
Waiotemarama Gorge Road Dodds Road	+	2510		145	6,957 202	1,812	3	5	3	0	3.65	0	0	0	0	2	0	2	1	1 0	0	0	0	0	2	2	1	0	20.65	222 223	683 12
Church Road	KAITAIA	159	6 2,	841	3,477	636	2	0	3	2	1.25	0	0	0	0	0	0	1	2	0	0	0	0	0	1	0	0	0	12.25	224	471
Spains Road Horeke Road	+	233- 178		985 601	2,437	452 264	3	5	3	5	0.60	0	0	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	20.60 20.60	225	180 684
Sandhills Road		229	2 5,	580	6,426	846	4	5	3	5	1.55	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	20.55	227	55
Waiomio Road Knudsens Road	WAIOMIO	250 186		523 343	1,025	502 426	4	3	4	3	0.55	0	3	0	0	0	0	0	2	0	0	0	1	0	0	0	0	0	20.55 20.50	228 229	56 298
Lovatt Road		191		239	655	420	1	5	1	5	0.50	0	0	0	0	0	0	1	1	5	0	0	0	0	0	0	0	1	20.50	230	1168
Diggers Valley Road		163			16,966	714	3	0	3	1	0.45	0	0	0	0	1	0	2	2	2	0	0	1	2	0	2	1	0	20.45	231	472
Waimango Road Kohumaru Road		302		556 052	1,869 19,146	313 1,094	1	5	1 2	5	0.45	0	0	0	0	0	0	0	2	5	0	0	0	0	0	0	0	1 0	20.45 20.40	232 233	473 299
Takahue Saddle Road	BROADWOO	237	3	78	1,948	1,870	3	2	3	3	4.40	0	0	0	0	1	0	1	1	0	0	0	2	0	0	0	0	0	20.40	234	474
Brass Road Gills Road	AWANU	155 170		930 632	4,150 5,220	220 588	4	5	3	5	0.35	0	0	0	0	0	1	0	2	0	0	0	0	0	0	0	0	0	20.35 20.35	235 236	8 300
Peras Road	AWANU	215		408	1,911	588	1	4	1	4	1.35	0	0	0	0	0	0	0	1	5	0	0	0	0	2	0	0	1	20.35	236	475
Renwick Road	SIDE ROAD	225		542	1,842	300	5	2	3	3	0.30	0	0	0	0	0	0	0	0	3	0	0	0	0	0	2	2	0	20.30	238	102
Salvation Road Waikoura Road	WHANGARC	228		727 807	2,027	300 596	2	5 4	2	5	0.30	0	0	0	0	0	0	0	1	2	0	0	0	0	0	2	1	0	20.30 20.30	239 240	301 302
Otaua Road		210	7 2,	.003	2,723	720	3	3	4	4	2.30	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0	0	20.30	241	685
lwitaua Road Iwitaua Road		179 179		101 551	4,401 7,851	300 300	2	0	3	0	0.30	0	0	0	0	0	0	2	1	4 4	0	0	0	2	2	2	2	0	20.30 20.30	242 243	908 909
Bell Road		153	2	36	1,100	1,064	3	4	3	4	4.25	0	0	0	0	0	0	0	2	4	0	0	0	0	0	0	0	0	20.30	245	57
Waihapa Road		248		738	2,245 654	507	1	4	2	4	1.25	0	0	0	0	0	0	1	1	5	0	0	0	0	0	0	0	1	20.25	245	303
Waimango Road Omaunu Road		302		278 905	5,848	376 1,943	5	5	1 3	5	0.25 4.20	0	0	0	0	0	0	2	2	5	0	0	0	0	0	2	0	1 0	20.25 20.20	246 247	476
Hagger Street	_	309	2	0	155	155	2	2	3	3	8.20	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	20.20	248	103
Ninihi Road Pawarenga Road		204		104 354	3,404 14,654	300 300	4	3	3	3	0.20	0	0	0	0	0	0	0	1	2	0	0	0	0	1 0	2	1	0	20.20 20.20	249 250	182 304
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Number of Partial Mark         PDU/PGA2         293         64         1,71         6.72         1,645         2,075         59         2,55         0        0         0				,	· · · ·													2	2	0			-	0		0	0				
share         1741         1745 <t< td=""><td></td><td>HOUHORA</td><td></td><td>· · · · ·</td><td><u>´</u></td><td></td><td></td><td>5</td><td></td><td>-</td><td></td><td>-</td><td></td><td>-</td><td></td><td>-</td><td>-</td><td>2</td><td>2</td><td>3</td><td>-</td><td>-</td><td>-</td><td>2</td><td></td><td>2</td><td>2</td><td></td><td></td><td></td><td></td></t<>		HOUHORA		· · · · ·	<u>´</u>			5		-		-		-		-	-	2	2	3	-	-	-	2		2	2				
Number         Numbr         Numbr         Numbr <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> <td></td> <td>_</td> <td>3</td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td>								0											_	3	-						-				
besch         besch <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>3</td><td></td><td>3</td><td>1</td><td></td><td></td><td>0</td><td>0</td><td></td><td></td><td>0</td><td>2</td><td>1</td><td>4</td><td>-</td><td>0</td><td>0</td><td>1</td><td>0</td><td>2</td><td>2</td><td>0</td><td></td><td></td><td></td></th<>							3		3	1			0	0			0	2	1	4	-	0	0	1	0	2	2	0			
Shareling load         1         4         2         4         0.45         0										-								-					-				-	-		-	
KATIAA         1596         3.783         5.292         1.509         2         2         3         3         4.20         0        0         0         0	Sandhills Road																		-				-					-			
Weber Brad         2531         1.29         2.58         1.37         4         2         4         3.40         0         0         0         1         0 <td></td> <td>KAITAIA</td> <td></td> <td>-</td> <td></td>		KAITAIA																												-	
Period         1         2.57         4.580         5.366         8.857         4         0         2         1         2.1         7.6         9.6         9.4 <td>Weber Road</td> <td></td> <td>2531</td> <td>1 1,20</td> <td>9 2,585</td> <td>5 1,376</td> <td>1</td> <td>4</td> <td>2</td> <td>4</td> <td>3.40</td> <td>0</td> <td>3</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>1</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>1</td> <td>0</td> <td>0</td> <td>0</td> <td>19.40</td> <td>292</td> <td>310</td>	Weber Road		2531	1 1,20	9 2,585	5 1,376	1	4	2	4	3.40	0	3	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	19.40	292	310
Khe Road         164         271         767         496         2         2         0         3         0.35         0.0         0																				5					0						
Dragnon Road         main         2103         5.303         5.600         227         2         2         2         1         0         1         9         9           Wainer Road         2286         23.769         24.295         526         24.2         2         0        0     <					· · · ·														-	5					0	-					
Bonetts Road         intras Road         LAKE OMAP         1549         2.982         3.185         2.03         4         5         3         5         0.30         0        0         0         0<																				-						-		-		-	
Imms Road         LAKE OMAP         1794         1,824         2,124         300         2         5         2         5         0,30         0         0         0         2         0        0         <				´				5																		-		-			
Parapara Road         2134         810         1,110         300         5         3         5         3         0.30         0<	Imms Road		1794	4 1,82	4 2,124	1 300	2		2		0.30	0	0	0	0	0						0	0	0	0	0	0	0	19.30	299	108
Dip Rad         1640         864         1,700         836         3         3         3         3         3         3         0		KAIKOHE																	-							-		-			
McIntyres Road         1193         580         880         300         3         5         2         5         0.30         0         0         0         1         1         0 </td <td></td> <td>-</td> <td></td>																														-	
Pipwai Road         2164         6.993         7.293         300         2         3         3         3         0.30         0         0         0         2         1         0         13.0         13.0         699           Rus Road         3044         7.24         1.13         689         2         3         3         3         0.30         0	McIntyres Road		1993	3 58	0 880	300	3	5	2	5	0.30	0	0		0	0	0	1	1	0	0	0	0	0	2		0	0	19.30	303	485
Rusk Road         3044         724         1,413         689         2         5         3         5         1.25         0 <td></td> <td></td> <td></td> <td><u>´</u></td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td>-</td> <td></td>				<u>´</u>																-								-		-	
Unair Road       3011       2,477       2,723       246       2       5       1.20       0       0       0       0       0       0       0       1.20       308       333         Motukiore Road       2025       2,200       2,642       442       3       5       3       5       1.20       <						3 689							+													-		-		-	
Motukiore Road       2025       2,200       2,642       442       3       5       3       5       1.20       0       0       0       0       1       0       0       1       0       0       0       1.20       3.09       1.88         Sandhills Road       2292       12,375       12,375       3.075       3       5       3       5       0.20       0 <td></td> <td>KAINGAROA</td> <td></td> <td>-</td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td>-</td> <td></td> <td></td> <td></td>		KAINGAROA																-		-						-		-			
Sandhills Road       2292       12,375       12,675       300       4       5       3       5       0.20       0       0       0       0       0       0       0       0       0       0       12.07       310       189         Motukiore Road       2025       2,652       3,226       574       3       5       3.0       5       1.20       0       0       0       0       0       0       0       0       0       1       0       0       0       0       1.20       310       189         Kohumaru Road       1862       8,500       8,800       300       1       5       0       5       0.20       1       0       0       0       0       1       0<		+																										-			
Kohumaru Road 1862 8,500 8,800 300 1 5 0 5 0.20 0 0 0 0 0 0 0 0 0 2 1 0 1 0 19.20 312 488	Sandhills Road		2292	2 12,37	5 12,675	5 300	4	5	3	5	0.20	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	19.20	310	189
		_																		0			-			-					
Puhata Road 2184 539 951 412 3 3 2 3 1.20 0 0 0 0 0 0 2 1 1 0 0 0 0 0 2 1 0 19.20 313 489	Puhata Road						3	3	2	3	1.20	0	0	0	0	0	0	2	1 1	1	0	0	0	0	0	2	1	0	19.20	312	488
Orakau Road       2201       1,934       2,234       300       3       0       4       0       0.20       0       0       0       0       2       1       3       0       0       2       0       2       2       0       19.20       314       700							3			0		0		0	0					3			0	2	0	2	2	0			

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				RAMM DATA	<u> </u>							<b>Ia</b>							ED DMF (C	overing PG		Lategories	5)							
						ault	Default	Default	Default	Factor of	Factor of	Factor of Importan	Factor of Importan	Factor of Importan	Default	Default	Factor of Importan	Factor of Importan	Default	Default	Default	Default	Default	Default	Default	Default	Default	####		
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		$\sim$				Data	Data	Data	Data	200%	200%	100%	100%	100%	Data	Data	100%	100%	Data	0	0	Data	Data	Data	Data	Data	Data			
Range of Data					14 - 2671	0 - 5	0 - 5	0 - 5	0 - 5	0 - 13	0 - 10	0 - 3	0 - 5	0 - 5	0 - 4	0 - 4	0 - 2 open plains	0 - 2 More than 2	0 - 5	0 - 0	0 - 0	0 - 2	0 - 2 No Resilience	0 - 2	0 - 2	0 - 2	0 - 3	1 - 31	1 - 1810	1 - 1031
						0	25	20	30	0.025	0	0	0	0	0	0	or coastal some land	0-1 events	0	\$3,000	\$3,000,000	on this	On Resilience	Doad On Resilience	No	0	0	0	-	
					ŀ	6	26 30	21 45	31 38	0.075	0	0	0	0	2	2	featurer in land	Less than one	1-2 2-3	\$9,000 \$30,000	\$975,000 \$375,000	Road but no Road	Road but no	Road	YES	1-2 >3	2	1	-	
					ŀ	11	40	85	50	0.150	0	1	0	0	3	3	onclosed	ought ought	3-5	\$106,000	\$112,500	Sections	Sections	Sections			3	3	-	
					9,477	26	50	185	68	0.300	0	0	0	0	4	4			5-7	\$371,000	\$37,501						4	4	1	
						50	70	350	100	0.350	1	2	1	1	5	5			7-10	\$1,295,000	\$37,500						5	5	<u> </u>	
						SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCO RE Annual	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	PRIORITY	PRIORITY
						HCV 5 day	нсv	LDV 5 day	Speed of	Houses	Schools	Maraes	Churches	Health	Ecological	Horicul-	Location	Frequency	Longevity	Mntence	Estimated	Tourism	Disaster	Network	Logging	Years of	Milk sheds	FNDC	FNDC Road	Circular
Road Name	Location	Road ID	Start	End	Length	AADT FNDC	Speed FNDC	AADT FNDC	LDVs (Est)	within (200m	FNDC	FNDC	FNDC	Centers	Areas FNDC	tural areas	of	of rain	of HCV	Cost	Sealing	Route	Resilience FNDC	Resilience	Route FNDC	Logging /	FNDC		Rating FNDC	16/04 Bating
						FNDC	FNDC	FNDC	FNDC	(300m from				FNDC	FNDC	FNDC	Roadway FNDC	days FNDC	route FNDC	Prev 3 year av./km	Cost FNDC	FNDC	FNDC	FNDC	FNDC	HCV Est. FNDC		OVERALL	FNDC	Rating
										road)										FNDC								FNDC		
Runaruna Road		227				3	0	4	0	0.20	0	0	0	0	0	0	2	1	3	0	0	0	2	0	2	2	0	19.20	315	701
Smith Deviation Road Backriver Road	_	232			<u> </u>	1 3	0	2	2	4.20 0.20	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	19.20 19.20	316 317	702
Otangaroa Road		210	3 9,88	39 10,344	455	3	0	3	2	0.20	0	0	0	0	0	0	1	1	2	0	0	0	2	2	2	1	0	19.20	318	1171
lwitaua Road Dick Urlich Road		179		0 13,315		2	0	1 3	1 5	0.20	0	0	0	0	0	0	2	1 2	4	0	0	0	2	2	2	2	0	19.20 19.15	319 320	1401 313
Martin Road	KAEO	195	7 8,07	72 8,757	685	1	5	2	5	3.15	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	19.15	321	314
Orakau Road Sandhills Road		220			3 300 7 406	3	0	4	0	0.15	0	0	0	0	0	0	2	1	3	0	0	0	2	0	2	2	0	19.15 19.10	322 323	1172 190
Fisher-Riley Road		1684				4	3	2	3	0.10	0	0	0	0	1	0	2	2	0	0	0	2	0	0	0	0	0	19.10	323	315
Oromahoe Road		209		/		1	0	3	2	8.05	0	0	0	0	0	0	2	2	0	0	0	0	0	1	0	0	0	19.05	325	316
Henderson Bay Road Purerua Road		220		_		2	5	3	5	0.05	0	0	0	0	0	0	0	2	0	0	0	2	0	0	0	0	0	19.05 19.05	326	490 703
Purerua Road		220	5 14,97			2	5	3	5	0.05	0	0	0	0	0	0	0	2	0	0	0	2	0	0	0	0	0	19.05	328	704
Paponga Road Puketotara Road	_	212			300	2	3	1 3	3	0.05 2.05	0	0	0	0	0	0	2	1 0	3	0	0	0	0	0	2	2	0	19.05 19.05	329 330	914 915
Orakau Road		220	1 8,35	56 8,656	300	2	0	3	2	0.05	0	0	0	0	0	0	2	1	3	0	0	0	2	0	2	2	0	19.05	331	1173
Pipiwai Road Runaruna Road		216			7 <u>300</u> 3 300	2	3	3	3	0.05	0	0	0	0	0	0	2	1	2	0	0	0	0	0	2	1 2	0	19.05 19.05	332 333	1174 1175
Backriver Road		151				1	3	2	3	0.05	0	0	0	0	0	0	2	1	2	0	0	0	0	2	2	1	0	19.05	334	1402
Iwitaua Road	_	179 213	· · ·			2	0	1 4	1	0.05	0	0	0	0	0	0	2	1	4	0	0	0	2	2	2	2	0	19.05	335	1403
Parapara Road Rangihoua Road		213				4	3	3	3	0.00	0	0	0	0	2	1	0	2	0	0	0	2	0	0	0	0	0	19.00 19.00	336 337	111 191
Te Pua Road	PAUA	242		0 150		4	5	3	5	0.00	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	19.00	338	192
Pekerau Road Rakauwahia Road		214		_		2	5	3	5	0.00	0	0	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	19.00 19.00	339 340	491 705
Orakau Road		220	1 27	72 309	37	3	0	4	0	0.00	0	0	0	0	0	0	2	1	3	0	0	0	2	0	2	2	0	19.00	341	1176
Pipiwai Road Doel Road	WAIPAPAKA	216		54 4,250 0 282		2	3	3	3	0.00	0	0	0	0	0	0	2	1 2	2	0	0	0	0	0	2	0	0	19.00 18.90	342	1177 13
Fisher-Riley Road		1684	4 6,94	12 7,363	421	4	2	2	3	0.90	0	0	0	0	1	0	2	2	0	0	0	2	0	0	0	0	0	18.90	344	112
Waitehuia Road Church Road	KAITAIA	251		0 650		0	5	1 3	5	4.85	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	18.85 9.50	345	113 1404
Diggers Valley Road	10 117 10 1	163	9 4,49	91 5,078	587	3	0	3	0	0.80	0	0	0	0	0	0	2	2	2	0	0	1	2	0	2	1	0	18.80	347	492
Lake Ohia Road	OKAIHAU	189				2	3	1 3	3	1.75	0	0	0	0	1	0	0	2	5	0	0	0	0	0	0	0	1	18.75	348 349	317 493
Lake Road Waikaramu Road	UKAIHAU	248		1 1 1 1		4	4	3	4	0.75	0	0	0	0	0	0	0	1	0	0	0	2	0	2	0	0	0	18.75 18.70	349	114
Church Road	KAITAIA	159				0	0	3	0	0.90	0	0	0	0	0	0	1	2	0	0	0	0	0	1	0	0	0	7.90	351	1178
Hautapu Road Peria Valley Road		174				3	3	3	3	0.70	0	0	0	0	0	0	2	2	0	0	0	0	0	2	0	0	0	18.70 18.70	352 353	706
Runaruna Road		227	8 2,78	38 3,088	300	2	0	3	1	0.70	0	0	0	0	0	0	2	1	3	0	0	0	2	0	2	2	0	18.70	354	708
Oturu Road Ngapuhi Road	KAIKOHE	211				3	4 5	3	4 5	1.60 0.60	0	0	0	0	0	0	0	2	0	0	0	0	0	1 0	0	0	0	18.60 18.60	355	115 193
Oturu Road		211	3 2,39	3,386	i 994	3	4	3	4	1.60	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	18.60	357	194
Te Ahu Road Puhata Road		240	<u>´</u>			3	5	3	5	0.60	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	18.60 18.60	358 359	195 709
Otangaroa Road		210	´			3	0	4	0	0.60	0	0	0	0	0	0	1	1	2	0	0	0	2	2	2	1	0	18.60	360	916
Sullivans Road		235				1	3	3	3	6.55	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	18.55	361	318
lwitaua Road Wainui Valley Road		179 250-				1	0	2	0	0.55	0	0	0	0	0	0	2	1 2	4	0	0	0	2	2	2	2	0	18.55 18.55	362 363	1179 319
Puketi Road		219	3 4,48	32 5,553	1,071	1	5	1	5	2.45	0	0	0	0	3	0	0	0	5	0	0	2	0	2	0	0	1	27.45	364	710
Hautapu Road Trig Road		174		0 732		3	2	3	3	1.50 0.45	0	0	0	0	0	0	2	2	0	0	0	0	0	2	0	0	0	18.50 18.45	365	494
Smith Camp Road		232	4	0 316	5 316	5	3	4	3	1.40	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	18.40	367	34
Lake Road Jacentho Road	OKAIHAU	172		74 1,189 0 346		3	3	4	3	2.40	0	0	0	0	0	0	0	1	0	0	0	2	0	0	0	0	0	18.40 18.40	368 369	196 320
Kenana Road		184	4	0 1,094	1,094	2	2	3	3	1.40	0	3	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	18.40	370	495
Waiare Road		248				2	3	3	3	0.40	0	0	0	0	0	0	2	0	0	0	0	1	2	2	0	0	0	18.40	371	1180
Fisher-Riley Road Rotokawau Road		168-				4	2	2	3	0.35	0	0	0	0	1	0	2	2	0	0	0	2	0	2	0	0	0	18.35 18.35	372 373	197 496
Mangatoetoe Road		193	6 1,83	30 2,316	5 486	2	1	3	2	0.35	0	0	0	0	0	0	2	1	2	0	0	0	0	2	2	1	0	18.35	374	1405
Pakaru Road Waitaheke Road		212				2	3	2	3	0.35	0	0	0	0	0	0	1 0	1	5	0	0	0	0	0	0	0	1 0	18.35 18.30	375 376	1406 198
Duncan Road	KAINGAROA	165	6 10,76	51 11,061	300	1	0	1	2	0.30	0	0	0	0	0	1	2	2	3	0	0	1	0	1	2	2	0	18.30	377	321
Poko Pohaia Road		217	1 65	50 800	150	1	3	1	4	1.30	0	0	0	0	0	0	0	2	5	0	0	0	0	0	0	0	1	18.30	378	322

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			К	AMM DATA															ED DMF (C	overing PG	F and IIF	Lategories	5)	-						
						ault	Default	Default	Default	Factor of Importan	Factor of	Factor of Importan	Factor of Importan	Factor of Importan	Default	Default	Factor of Importan	Factor of Importan	Default	Default	Default	Default	Default	Default	Default	Default	Default	####		
۲.		<b>&lt;</b>	<b>&lt;</b>	<b>&lt;</b>	. र <b>म</b> -		Delaut	Delaun	Delaute	ce	ce	ce	ce	ce	Delaute	Delaute	ce	ce		Delaute	Delaun	Delaute	Deladate	Delaun	Delaute	Delutit				
		$\sim$	$\sim$			Data	Data	Data	Data	200%	200%	100%	100%	100%	Data	Data	100%	100%	Data	0	0	Data	Data	Data	Data	Data	Data			
Range of Data					14 - 2671	0 - 5	0 - 5	0 - 5	0 - 5	0 - 13	0 - 10	0 - 3	0 - 5	0 - 5	0 - 4	0 - 4	0 - 2 open plains	0 - 2 More than 2	0 - 5	0 - 0	0 - 0	0 - 2	0 - 2	0 - 2 No Resilience	0 - 2	0 - 2	0 - 3	1 - 31	1 - 1810	1 - 1031
						0	25	20	30	0.025	0	0	0	0	0	0	or coastal some land	O-1 events	0	\$3,000	\$3,000,000	on this	On Resilience	Do ad On Resilience	No	0	0	0	-	
					ŀ	6	26	21 45	31 38	0.075	0	0	0	0	2	2	featurer in land	Less than one	1-2 2-3	\$9,000 \$30,000	\$975,000 \$375,000	Road but no Road	Road hut no	Road but no Road	YES	1-2 >3	2	1	1	
					ŀ	11	40	85	50	0.150	0	1	0	0	3	3	enclosed	ought ought	3-5	\$106,000	\$112,500	Sections	Sections	Sections			3	3	-	
					9,477	26	50	185	68	0.300	0	0	0	0	4	4			5-7	\$371,000	\$37,501						4	4	1	
						50	70	350	100	0.350	1	2	1	1	5	5			7-10	\$1,295,000	\$37,500						5	5		
						SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCO RE Annual	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	PRIORITY	PRIORITY
						HCV 5 day	нсу	LDV 5 day	Speed of	Houses	Schools	Maraes	Churches	Health	Ecological	Horicul-	Location	Frequency	Longevity	Mntence	Estimated	Tourism	Disaster	Network	Logging	Years of	Milk sheds	FNDC	FNDC Road	Circular
Road Name	Location	Road ID	Start	End	Length	AADT FNDC	Speed FNDC	AADT FNDC	LDVs (Est) FNDC	within (300m	FNDC	FNDC	FNDC	Centers FNDC	Areas FNDC	tural areas FNDC	of Roadway	of rain days	of HCV route	Cost Prev 3 year	Sealing Cost	Route FNDC	Resilience FNDC	Resilience FNDC	Route FNDC	Logging / HCV Est.	FNDC		Rating FNDC	16/04 Rating
						- HUC	FINDE	FILDC	FNDC	from				FINDC	FNDC	FNDC	FNDC	FNDC	FNDC	av./km	FNDC	FNDC	- MDC	FINDC	FNDC	FNDC		OVERALL	FINDE	Nating
										road)										FNDC								FNDC		
Whangape Road Atkinson Road		2555		7 10,127 0 503		2	3	3	3	0.30	0	3	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	18.30 18.30	379 380	497 711
Honeymoon Valley Road	-	1778				3	0	3	0	0.30	0	0	0	0	0	0	2	1	4	0	0	0	1	0	2	2	0	18.30	381	711
Cable Bay Block Road		1573	· · · ·	· · ·	<u> </u>	2	2	3	3	5.25	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	18.25	382	199
Horeke Road Te Karaka Road		178		· · ·	544	4	2	3	2	2.25	0	0	0	0	0	0	0	1	0	0	0	2	2	2	0	0	0	18.25 18.20	383	200
Ngapuhi Road	KAIKOHE	203	82	2 1,122	2 300	3	5	3	5	0.20	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	18.20	385	202
Church Road Dip Road	KAITAIA	1596 1640		2 8,743 0 849		0	2	3	0	0.90 3.20	0	0	0	0	0	0	2	2	0	0	0	0	0	1	0	0	0	7.90 18.20	386	1407 323
Motukiore Road		202	90	0 1,643	3 743	3	0	3	2	1.20	0	0	5	0	1	0	0	1	0	0	0	2	0	0	0	0	0	18.20	388	498
Ngapipito Road Otaua Road		203			300 622	3	0	4 3	0	0.20	0	0	0	0	0	0	2	1	3	0	0	1	0	0	2	2	0	18.20 18.20	389	713 714
Duncan Road	KAINGAROA	1650	· · · ·		4 300	1	0	1	1	0.20	0	0	0	0	0	1	2	2	3	0	0	1	0	2	2	2	0	18.20	391	917
Omaunu Road Otangaroa Road		2078	· · · ·	· · · ·		4	0	5	0	2.15 0.15	0	0	0	0	0	0	2	1	1 2	0	0	0	0	0	2	1	0	18.15 18.15	392 393	62 1408
Monument Road	-	2020		· · ·	500	1	0	0	2	1.10	0	3	0	0	0	0	2	0	3	0	0	0	0	2	2	2	0	18.10	394	918
Otangaroa Road		2103				3	0	3	1	0.10	0	0	0	0	0	0	1	1	2	0	0	0	2	2	2	1	0	18.10	395	1409
Newton Road Campbell Road	TOATOA	2033		0 1,432		3	2	3	3	6.05 4.05	0	0	0	0	2	0	2	2	0	0	0	0	0	0	0	0	0	18.05 18.05	396 397	324 499
Braithwaite Road		1554				1	3	2	3	1.05	0	0	0	0	0	0	0	2	5	0	0	0	0	0	0	0	1	18.05	398	919
Lake Road Mangakaretu Road	OKAIHAU	1891	4,87	<u> </u>	2 300	2	5	3	5	0.05	0	0	0	0	0	0	0	1	0	0	0	2	0	0	0	0	0	18.05 18.05	399 400	920 921
Masons Road		1963		6 946		1	5	0	5	0.05	0	0	0	0	0	0	0	1	5	0	0	0	0	0	0	0	1	18.05	401	1181
Ngapipito Road Everitt Road		203		7 12,157 0 1,072	7 300 2 1,072	3	0	4	0	0.05	0	0	0	0	0	0	2	1 2	3	0	0	1	0	0	2	2	0	18.05 18.00	402	1182 203
Cookson Road		1614	1 7	8 861	. 783	1	5	2	5	3.00	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	18.00	404	325
Karuhiruhi Road Omahuta Forest Road		1831		2 815 0 150		2	4	1	4	1.00 0.00	0	0	0	0	0	0	0	1	5	0	0	2	0	0	0	0	1	18.00 18.00	405	326
Srhoj Road		2337	/ (	0 292	292	1	4	0	4	0.95	0	0	0	0	0	0	0	2	5	0	0	0	0	0	0	0	1	17.95	407	501
Motuti Road Puketotara Road	_	2022		· · ·	461	3	1 3	3	2	0.95	0	0	5	0	0	0	0	1	0	0	0	2	0	0	0	0	0	17.95 17.95	408	715
Te Hapua Road		2411	. 8,89	4 9,375	6 481	4	3	4	3	0.90	0	0	0	0	1	0	0	2	0	0	0	0	0	0	0	0	0	17.90	410	63
Trig Road Duncan Road	KAINGAROA	2460		<u> </u>	816	3	4	3	4	1.90 0.90	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	2	0	17.90 17.90	411 412	117 327
Pawarenga Road		2143	· · ·	<u> </u>	. 741	3	3	3	3	1.90	0	0	0	0	0	0	2	1	0	0	0	0	1	0	0	0	0	17.90	413	502
Hikurua Road Callaghans Road		1760		,	7 <u>384</u> ) 542	3	3	2	3	1.85 1.85	0	0	0	0	1 0	0	2	2	0	0	0	0	0	0	0	0	0	17.85 17.85	414 415	118 204
Wakelin Road		2520				3	5	3	5	0.85	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	17.85	415	204
Waima Valley Road		249	,			3	4	4	4	0.85	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	17.85	417	503
Waimatenui / Mataraua Road Kaka Road		2600				4	0	3	1 3	0.85	0	0	0	0	0	0	1 2	0	1 0	0	0	0	2	2	2	0	0	17.85 17.80	418 419	716 328
Martin Road	KAEO	1957	4,12	2 4,664	542	3	4	3	4	0.75	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	17.75	420	329
Mangakaretu Road McIntyres Road	+	192	· · · ·			2	5	3	5	0.75	0	0	0	0	0	0	0	1	0	0	0	1 0	0	0	0	0	0	17.75 17.75	421 422	504
Mill Road	KAINGAROA	2008	3,21	2 3,521	309	2	2	3	3	0.75	0	0	0	0	0	0	0	1	5	0	0	0	0	0	0	0	1	17.75	423	922
Bonnetts Road Mangatawa Road		1549 1934				4 3	4	3	4	0.70	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	17.70 17.70	424 425	64 206
NGAKAPUA ROAD		3244	l (	0 412	2 412	1	2	1	3	5.70	0	0	0	0	1	0	2	2	0	0	0	0	0	0	0	0	0	17.70	426	207
Hikurua Road Puha Road	_	1760				3	4	2	4	0.70	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	17.70 17.70	427 428	330 506
Mahinepua Road		1917	/	0 970	970	3	0	3	2	4.65	0	0	0	0	1	0	1 0	2	0	0	0	2	0	0	0	0	0	17.65	428	208
Waoku Road		252				3	0	2	2	0.65	0	0	0	0	1	0	0	0	5	0	0	0	0	0	2	1	1	17.65	430	923
Fords Road Jordan Road		1690 1812		3 778 0 543	543	1 3	2	2	3	0.65 3.60	0	0	0	0	0	0	2	1	5	0	0	0	0	0	0	0	0	17.65 17.60	431 432	1184 331
Martin Road	KAEO	1957	6,58	1 7,177	7 596	1	5	2	5	1.60	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	17.60	433	507
Paiaka Road Pupuke Mangapa Road	+	2120				2	5	2 4	5	0.60	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	17.60 17.60	434 435	508 509
Puketi Road		2193	5,62	4 5,924	300	1	5	1	5	0.70	0	0	0	0	3	0	0	0	0	0	0	2	0	2	0	0	0	19.70	436	510
Rangihoua Road Whaakauru Valley Road		222		1 6,043 0 1,080		4	3	3	3	0.55	0	0	0	0	1 0	0	0	2	0	0	0	1	0	0	0	0	0	17.55 17.55	437 438	119 717
Peria Valley Road		215	/ (	0 411	. 411	2	0	3	1	0.55	0	0	0	0	0	0	2	1	1	0	0	0	2	2	2	1	0	17.55	439	1410
Te Tii Road Waikaramu Road	_	243		0 150 9 4,047		3	4	4	4	0.50	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	17.50 17.50	440 441	35 332
Puketi Road		2488				2	4	1	4	0.50	0	0	0	0	3	0	0	0	0	0	0	2	0	2	0	0	0	17.50	441 442	511
									-							-							-							

						_							8 of 29 Pri	inted on 19	/06/2021		END O UN					0-4	-1					A	PPEN	IDIX 2
			ŀ	RAMM DATA															ED DMF (C	overing PG	F and IIF	Categories	5)							
							Default	Default	Default	Factor of		Factor of Importan	Factor of		Default	Default	Factor of		Default	Default	Default	Default	Default	Default	Default	Default	Default	####		
۲,		$\mathbf{\mathbf{T}}$	· < 🕨	· < 🌗	<u>ر</u> ک	ault	Default	Default	Default	Importan ce	Importan ce	ce	Importan ce	Importan ce	Delault	Default	Importan ce	Importan ce	Delault	Default	Default	Delault	Delault	Default	Default	Default	Default	****	2.000000	
		$\sim$	$\sim$		$\sim$	Data	Data	Data	Data	200%	200%	100%	100%	100%	Data	Data	100%	100%	Data	0	0	Data	Data	Data	Data	Data	Data			
Range of Data					14 - 2671	0 - 5	0 - 5	0 - 5	0 - 5	0 - 13	0 - 10	0 - 3	0 - 5	0 - 5	0 - 4	0 - 4	0 - 2	0 - 2	0 - 5	0 - 0	0 - 0	0 - 2	0 - 2	0 - 2	0 - 2	0 - 2	0 - 3	1 - 31	1 - 1810	1 - 1031
					-	0	25	20	30	0.025	0	0	0	0	0	0	open plains	More than 2 events per 0-1 events	0	\$3,000	\$3,000,000	on this	No Resilience	No Resilience	No	0	0	0	4	
					ŀ	6	26 30	21 45	31 38	0.075	0	0	0	0	2	2	featurer in land	Less than one	1-2 2-3	\$9,000 \$30,000	\$975,000 \$375,000	Road but no Road	Road but no	Road	YES	1-2 >3	1	1 2	4	
					ŀ	11	40	85	50	0.150	0	1	0	0	3	3	onclosed	event even	3-5	\$106,000	\$112,500	Sections	Cortions	Sections	1.5		3	3	1	
					9,477	26	50	185	68	0.300	0	0	0	0	4	4			5-7	\$371,000	\$37,501						4	4	1	
	_					50	70	350	100	0.350	1	2	1	1	5	5			7-10	\$1,295,000	\$37,500						5	5	<u> </u>	<u> </u>
						SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCO RE Annual	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	PRIORITY	PRIORITY
						HCV 5 day	нсv	LDV 5 day	Speed of	Houses	Schools	Maraes	Churches	Health	Ecological	Horicul-	Location	Frequency	Longevity	Mntence	Estimated	Tourism	Disaster	Network	Logging	Years of	Milk sheds	FNDC	FNDC Road	Circular
Road Name	Location	Road ID	Start	End	Length	AADT FNDC	Speed FNDC	AADT FNDC	LDVs (Est) FNDC	within (300m	FNDC	FNDC	FNDC	Centers FNDC	Areas FNDC	tural areas FNDC	of Roadway	of rain	of HCV	Cost	Sealing Cost	Route FNDC	Resilience FNDC	Resilience FNDC	Route FNDC	Logging /	FNDC		Rating FNDC	16/04 Rating
						FNDC	FNDC	FNDC	FNDC	from				FNDC	FNDC	FNDC	FNDC	days FNDC	route FNDC	Prev 3 year av./km	FNDC	FNDC	FNDC	FNDC	FNDC	HCV Est. FNDC		OVERALL	FNDC	Naung
										road)										FNDC								FNDC		
Motuti Road		202		· · ·		3	0	3	1	4.50	0	3	0	0	0	0	0	1	0	0	0	2	0	0	0	0	0	17.50	443	924
Russek Road Tauranga Bay Road		228		´	739 468	3	3	2	2	2.50	0	0	0	0	0	0	0	1 2	0	0	0	0	0	0	0	0	0	17.50 17.45	444	925
Runaruna Road	1	227	8 5,21	6 5,623	407	2	0	3	0	0.45	0	0	0	0	0	0	2	1	3	0	0	0	2	0	2	2	0	17.45	446	718
Waiotemarama Gorge Road Doel Road	WAIPAPAKA	2510		· · ·	. 559 220	3	0	3	1 5	0.45	0	0	0	0	1	0	2	1 2	1 0	0	0	0	0	2	2	1	0	17.45 17.40	447	719 65
Fisher-Riley Road		1684	4 5,09	5 5,599	504	4	0	2	2	2.40	0	0	0	0	1	0	2	2	0	0	0	2	0	0	0	0	0	17.40	449	120
Rakauwahia Road Waiotehue Road		221			) 611 ) 462	2	5	3	5	1.40 0.40	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	17.40 17.40	450 451	334 512
Punakitere Loop Road		230			1,053	2	4	2	4	2.35	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	17.40	451	335
Matangirau School Road		196		0 1,136	1,136	1	4	2	4	3.35	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	17.35	453	513
Omaun u Road Tapuhi Road		207	· · · ·	· · ·	896	3	0	4 3	1 2	2.35	0	0	0	0	0	0	2	1 0	5	0	0	0	0	0	2	0	0	17.35 17.35	454	720
Mcfarlane Street	NORTH	304	3	0 105	105	5	1	5	2	2.30	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	17.30	456	14
Hawkins Road Hillcrest Road	KOHUKOHU KAITAIA	174		0 156	156	3	5	2	5	0.30	0	0	0	0	1 0	0	0	1	0	0	0	0	0	0	0	0	0	17.30 17.30	457	121
Motukiore Road		202	5 1,89	6 2,196	300	3	4	3	4	0.30	0	0	0	0	1	0	0	1	0	0	0	1	0	0	0	0	0	17.30	459	123
Waima Valley Road Hauriri Road		249				5	3	3	3	1.30 0.30	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	17.30 17.30	460 461	209 336
Rusk Road		304		2 302		3	4	3	4	0.30	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	17.30	461	337
Duncan Road	KAINGAROA	165			300	1	0	1	1 2	0.30	0	0	0	0	0	1	2	2	3	0	0	1	0	1	2	2	0	17.30	463 464	514
Paparore Road Puha Road		212			690	3	3	2	3	2.30	0	0	0	0	0	0	1	2	0	0	0	0	0	2	0	0	0	17.30 17.30	464	515 721
Otangaroa Road		210				3	0	1	2	0.30	0	0	0	0	0	0	1	1	2	0	0	0	2	2	2	1	0	17.30	466	926
Paponga Road Sandhills Road	_	212			368	2	0	1 3	1 4	0.30	0	0	0	0	0	0	2	1 2	5	0	0	0	0	0	2	2	1 0	17.30 17.25	467 468	1411 210
Duncan Road	KAINGAROA	165			309	1	0	1	1	0.25	0	0	0	0	0	1	2	2	3	0	0	1	0	1	2	2	0	17.25	469	516
Salvation Road Stanners Road	WHANGAR	228		0 369	369 612	2	3	2	3	1.25 3.25	0	0	0	0	0	0	0	1	2	0	0	0	0	0	2	0	0	17.25 17.25	470	517 518
Pukemiro Road		218	8 43	2 747	315	1	3	1	3	0.25	0	0	0	0	0	0	2	1	5	0	0	0	0	0	0	0	1	17.25	472	1591
Furness Road Red cliffs Road		3154			820	4	4	2	4	1.20	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	17.20 17.20	473	124 125
Martin Road	KAEO	195		-		3	4	3	4	0.20	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	17.20	475	338
Lake Road	KAIMAUMA	172		0 245	245	1	3	3	3	5.20	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	17.20	476	519
Diggers Valley Road Te Irenga Road		163 241	· · ·	7 2 0 0 0	188	2	5	1 3	2	0.20	0	0	0	0	0	0	2	2	0	0	0	1 0	2	0	2	0	0	17.20 17.20	477 478	722 723
Horeke Road		178	5 7,17	4 7,474	300	3	0	3	2	0.20	0	0	0	0	0	0	2	1	0	0	0	2	2	2	0	0	0	17.20	479	927
Orakau Road Otaua Road	+	220				3	0	2	0	0.20	0	0	0	0	0	0	2	1 0	3	0	0	0	2	0	2	2	0	17.20 17.20	480 481	928 929
Salvation Road	WHANGAR	228	9 2,22	2 2,522	. 300	2	3	2	4	0.20	0	0	0	0	0	0	0	1	2	0	0	0	0	0	2	1	0	17.20	482	1186
Wreck Bay Road Henderson Bay Road		258		0 437 3 2,010		5	0 4	5	0 4	3.15 0.15	0	0	0	0	0	0	0	2	0	0	0	2	0	0	0	0	0	17.15 17.15	483	36 520
Henderson Bay Road	1	1754	4 2,82	2 3,122	300	2	4	3	4	0.15	0	0	0	0	0	0	0	2	0	0	0	2	0	0	0	0	0	17.15	485	521
Ngataki Road Dun can Road	KAINGAROA	203	· · · ·			2	5	3	5	0.15	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	2	0	17.15 17.15	486	724 930
Parapara-Toatoa Road	10 11 10 11 10	213	3 5,94	· · ·		0	0	1	2	6.15	0	3	0	0	0	0	2	1	0	0	0	0	0	2	0	0	0	17.15	488	931
Weber Waihapa Road		253 174				3	5	1	5	0.15	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	17.15 17.15	489	932 1187
Hautapu Road Runaruna Road		227			300	2	0	3	0	0.15	0	0	0	0	0	0	2	2	3	0	0	0	2	0	2	2	0	17.15	490	1187
Runaruna Road		227				2	0	3	0	0.15	0	0	0	0	0	0	2	1	3	0	0	0	2	0	2	2	0	17.15	492	1189
Pariri Road Forest Road	+	3150 1693		0 680		2	3	2	3	4.10 1.10	0	0	0	0	2	0	0	1	0	0	0	0	0	0	0	0	0	17.10 17.10	493 494	211 339
Onekura Road		207	9 1,90	0 2,901	. 1,001	4	3	3	3	3.10	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	17.10	495	340
Wainui Road Hohaia Road	WAINUI	250		5 723 0 316		2	3	2	3	1.10	0	0	5	0	0	0	0	1	0	0	0	0	0	0	0	0	0	17.10 17.10	496	341 522
Wallis Road		2524	4 1,06	8 1,218	150	3	5	2	5	0.10	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	17.10	498	933
Saies Road Paua Road		228		5 616 0 150		4	4	3	4	0.05	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	17.05 17.05	499 500	342 523
Wakelin Road		214		-		3	5	3	5	0.05	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	17.05	500	725
Salvation Road	WHANGAR	229	0 3,10	3 3,253	150	2	3	2	4	0.05	0	0	0	0	0	0	0	1	2	0	0	0	0	0	2	1	0	17.05	502	1190
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Wireless Road		258	5 2,37	6 2,423	47	3	5	3	4	0.00	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	17.00	506	524

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Wales         Wales <th< td=""><td>Waharua Road</td><td></td><td>3085</td><td>310</td><td>934</td><td>624</td><td></td><td>3</td><td>1</td><td></td><td>5.50</td><td></td><td>0</td><td></td><td></td><td>0</td><td></td><td></td><td></td><td>0</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>0</td><td>16.50</td><td>547</td><td>348</td></th<>	Waharua Road		3085	310	934	624		3	1		5.50		0			0				0								0	16.50	547	348
Waldemarane Gorge Boad         2510         8,426         6,878         4320         73         0         3         0		+																		-			_		-	-				-	
kinesend         1138         0         1196         1196         1196         14         4         240         0         0         1         1         0         2         0	Waiotemarama Gorge Road		2510		8,878	452	3	0	3	0	0.50	0	0	0	0	1	0	2	1	1	0	0	0	0	2	2	1	0	16.50	550	735
Nation Road         1982         0         442         442           Spicer Road         3206         90         770         680           Spicer Road         1173         2,820         3.381         561         3				0					-											-					-	-		-			
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Walacemarama Gorge Road       2510       1,383       2,089       706         Walacemarama Gorge Road       2510       1,383       2,089       706         Walacemarama Gorge Road       2560       2,133       2,816       683       3       3       3.3       3.0       0 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>-</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>-</td><td></td><td></td><td></td><td></td><td>-</td><td></td><td></td><td>-</td><td></td><td></td><td></td></t<>									-											-					-			-			
Kimberley Road       1855       0       150		<u> </u>							-										-	1			-		-			-			
Makene Road         1919         1,520         1,670         150         1         4         0.30         0<	Wharau Road		2560		2,816	683	2	3	3		3.30		0					0			0	0	0					0	16.30	557	222
Waiotehue Road       2509       10,548       10,848       300         Waiotehue Road       2509       945       1,245       300       2       0       0.30       0       0       0       2       1       3       0       0       1       0       0       2       2       0       16.30       560       533         Waiotehue Road       2600       14,808       3000       14,808       3000       2       1       3       0       0       2       0       16.30       560       533         Waintenui / Matarau Road       2600       14,808       3000       14,808       3000       0		+		1.520					-						-					-					-			-			
Wainatenui / Mataraua Road       260       14,508       14,808       300         Tarakini Road       3089       0       450       450       4       2       4       1.20       0       0       0       0       1       0       1       0       0       0       0       0       1       0       1       0       0       0       0       2       1       0       16.30       562       1192         Tarakini Road       2134       1,723       1,735       204       4       2       4       1.20       0	Waiotehue Road		2509	10,548	10,848	300	2	0	2	0	0.30	0	0	0	0	1	0	2	1	3	0	0	1	0	0	2	2	0	16.30	560	533
Tarakihi Road       3089       0       450       450       450       44       2       4       1.20       0											-									3					0			-			
Ohin Road       3361       39       339       339       330       33       2       3       0.20       0       0       1       0       0       2       0       0       2       0       0       0       0       16.20       565       353         Roger Road       3033       1,069       1,417       348       2       5       2       5       1.20       0 </td <td></td> <td></td> <td></td> <td>14,508</td> <td>,</td> <td>450</td> <td></td> <td>0</td> <td></td> <td></td> <td></td> <td></td> <td>0</td> <td></td> <td></td> <td>-</td> <td></td> <td>-</td> <td></td>				14,508	,	450														0					0			-		-	
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Whakataha Road       255       47       934       887       3       4       3       4       2.20       0 </td <td></td> <td>-</td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td> <td></td>		-																		-								-			
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						ŀ								<u> </u>	-			fosturer in land					Road but no Road	Road but no	Road	VES				-	
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Description	Road Name	Location	Road ID	Start	End	Length				• • •		FNDC	FNDC	FNDC														FNDC			1 · I
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Browne mode         TWM         1583         0         67         687         697         582           Bikson         WANU         1255         58.97         4.97         551         1         2         0        0        0        0					_		2	3	3	3		-		-	-		0	2	2	0		-	0	0	-		-	0			
jactors and         OMAMUTA         3379         0         6.23			156	3	0 68		1	5	0	5						-	0	1	2	0	-		0	0			-	0			
Ahrent Road         3341         O         556         559           Ahrent Road         2138         4,704         559         650         0         5         1         5<         0         5         1         0        0													-							-					-			-			
Taumat Road         2394         249         1,419         1,215         1         0         1         0        0        0        0		OMATOTA						-		-			-			-				-			-	-	-			-			
DLVE WHEIGHTS DRV         NRTH         2301         0         272         272         2         4         1         158         0        0         0        0<										-			-			-		-	-	0	-		-		2	-	-	-			
BayMit Bad         NORT         2240         4,831         5,132         351         4         0         4         1         0,55         0        0         0         0		-		_	· · ·			-												0	-				0			-			
Packepox Road         OKAHAU         211         0         937		NORTH		<u>´</u>												-				-								-		_	
Ter like differention         9358         26         108         22         3         3         4.80         0 <th< td=""><td></td><td>OKAIHAU</td><td></td><td>-</td><td>_</td><td></td><td></td><td>-</td><td></td><td></td><td></td><td>-</td><td>-</td><td>-</td><td></td><td></td><td></td><td>-</td><td>-</td><td></td><td></td><td>-</td><td></td><td>-</td><td>-</td><td></td><td></td><td>-</td><td></td><td></td><td></td></th<>		OKAIHAU		-	_			-				-	-	-				-	-			-		-	-			-			
http://pyalley.Road         11         124         1.734			315	8 2	26 10	8 82			-			-	-												-						
Puha Road       1       1       1       0       0       0       0       1       1       0       0       0       0       0       1       1       0													-					1	1						2			-			
Margatariare Road       1933       0       425       425       44       3       2       3       0.75       0 <th< td=""><td></td><td>+</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>-</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>-</td><td></td><td></td><td></td><td>-</td><td></td></th<>		+											-													-				-	
Marcande         1953         2,860         3,035         175         2         4         3         4         0,70         0         0         0         1         0         0         0         1         0         0         0         1         0         0         0         0         0         157         623         230          Big Flat Acad         153         222         592         300         0													-												-	-		-			
Big Flat Road       1537       292       592       300         Smith Road       MOEREWA       2327       0       231 <th< td=""><td></td><td>+</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>-</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>0</td><td>-</td><td></td><td></td><td></td><td></td><td>-</td><td></td></th<>		+											-											0	-					-	
Omaun Road       2078       8,630       9,330       700         Tatan Road       2392       225       761       556         Gand Road       2392       225       761       556       3       0       2       0 <th< td=""><td>Big Flat Road</td><td></td><td>153</td><td>7 29</td><td>2 593</td><td>2 300</td><td>2</td><td>5</td><td>1</td><td>5</td><td>0.70</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>2</td><td>0</td><td>0</td><td>0</td><td>0</td><td></td><td>0</td><td>0</td><td>0</td><td>0</td><td>15.70</td><td>624</td><td>368</td></th<>	Big Flat Road		153	7 29	2 593	2 300	2	5	1	5	0.70	0	0	0	0	0	0	0	2	0	0	0	0		0	0	0	0	15.70	624	368
Tatana Road       239       225       761       536         Muncich Road       1882       62       362       300       2       2       0.0       0<		MOEREWA							-				-							-					-	-		-			
Kunich Road       1882       62       362       360       0													-							5			-					-			
Matawherohia Road       197       0       199       199       199       199       4       3       3       0.60       0       0       0       1       1       0       0       0       0       0       15.60       630       371         Water Chance       3221       0       175       175       5       2       5       0.60       0			188	2 6	36	2 300				-																-		-			369
Waker Road       2521       0       175       175       1       5       2       5       0.60       0       0       0       0       0       0       0       0       0       0       0       0       372         Water Lane       3427       56       140       84       1       2       3       3       4.60       0		+											-												-	-		-		-	
Pukemiro Road 2188 0 180 180 1 5 1 5 0.60 0 0 0 0 0 0 0 0 0 2 1 0 0 0 0 0 0 0 0	WalkerRoad		252	1	0 17	5 175	1	5	2	5	0.60	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	15.60	631	372
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													11 of 29 Pi	rinted on 19	9/06/2021													A	PPEN	DIX 2
			RA	MM DATA													FNDC UN	ISUBSIDIS	ED DMF (C	overing PG	F and TIF	Categories	s)							
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7		4	4	~	. ال <b>ا</b> ل	ault	Default	Default	Default	Importan ce	Importan ce	Importan ce	Importan ce	Importan ce	Default	Default	Importan ce	Importan ce	Default	Default	Default	Default	Default	Default	Default	Default	Default	####	2-01-0	
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						0	25	20	30	0.025	0	0	0	0	0	0	open plains or coastal some land	Wore than 2 events per 0-1 events	0	\$3,000	\$3,000,000	on this	No Resilience	No Resilience	No	0	0	0		
					-	1	26	21	31	0.075	0	0	0	0	1	1	fosturer Inland	Less than one	1-2	\$9,000	\$975,000	Road but no Road	Road but no	Poad but no Road		1-2	1	1	4	
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					9,477	26	50	185	68	0.300	0	0	0	0	4	4			5-7	\$371,000	\$37,501						4	4	1	
						50	70	350	100	0.350	1	2	1	1	5	5			7-10	\$1,295,000	\$37,500						5	5	1	
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						HCV 5 day	нсу	LDV 5 day	Speed of	Houses	Schools	Maraes	Churches	Health	Ecological	Horicul-	Location	Frequency	Longevity	Annual Mntence	Estimated	Tourism	Disaster	Network	Logging	Years of	Milk sheds	FNDC	FNDC Road	Circular
Road Name	Location	Road ID	Start	End	Length	AADT	Speed	AADT	LDVs (Est)	within	FNDC	FNDC	FNDC	Centers	Areas	tural areas	of	of rain	of HCV	Cost	Sealing	Route	Resilience	Resilience	Route	Logging /	FNDC		Rating	16/04
						FNDC	FNDC	FNDC	FNDC	(300m from				FNDC	FNDC	FNDC	Roadway FNDC	days FNDC	route FNDC	Prev 3 year av./km	Cost FNDC	FNDC	FNDC	FNDC	FNDC	HCV Est. FNDC		OVERALL	FNDC	Rating
										road)							- MDC	FINDE	FINDC	FNDC	HUDC					mbe		FNDC	/	1
Diggers Valley Road		1639		7,726	300	2	0	1	0	0.60	0	0	0	0	0	0	2	2	2	0	0	1	2	0	2	1	0	15.60	635	951
Backriver Road Mangatoetoe Road		1516 1936	6,509 3,289	7,133	624 300	1	0	2	0	2.60	0	0	0	0	0	0	2	1	2	0	0	0	0	2	2	1	0	15.60	636 637	1199 1200
Watuwhiwhi Road	NORTH	2566	5,289		382	2	3	1	3	5.55	0	0	0	0	0	0	2	2	0	0	0	0	0	0	2	0	0	15.60 15.55	638	374
Cemetery Road Kaeo	KAEO	1588		407	407	1	0	3	2	8.55	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	15.55	639	543
Dangen Road Pawarenga Road		1624 2143		3,964 10,191	783	2	2	2 4	3	1.50 0.50	0	0	0	0	1	0	2	2	0	0	0	0	0	0	0	0	0	15.50 15.50	640 641	544 545
Gills Road	AWANU	1705	7,647	8,817	1,170	1	1	2	2	3.50	0	0	0	0	1	2	0	2	0	0	0	0	0	1	0	0	0	15.50	642	747
Kohumaru Road Haumanga Road		1862 3058	<u> </u>	7,043		3	0	3	1 3	0.50	0	0	0	0	0	0	2	1	2	0	0	0	0	0	2	1	0	15.50 15.45	643 644	952 1416
Kauhanga Road		1835	212		310	1	5	0	5	3.40	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	15.40	645	231
Rataroa Road		3101 3428	609	1,215 130	606 130	2	4	2	4	1.40	0	0	0	0	0	1	0	1 2	0	0	0	0	0	0	0	0	0	15.40 15.40	646	375 546
Tangonge Service Lane Pakaru Road		2123	7,439		642	2	0	2	2	8.40 1.40	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	15.40	647 648	953
Waoku Road		2525	0	572	572	3	2	2	3	0.40	0	0	0	0	1	0	0	0	1	0	0	0	0	0	2	1	0	15.40	649	1201
Waiomio Road Te Ra Road	WAIOMIO	2507 2428		421 687	377	4	0	4	2	1.35	0	0	0	0	0	0	0	2	0	0	0	2	0	0	0	0	0	15.35 15.35	650 651	133 376
Punakitere Loop Road		2428			512	2	0	3	2	0.35	0	0	0	0	0	0	0	1	5	0	0	0	0	1	0	0	1	15.35	652	954
Pukewhai Road		2197	12	312	300	5	2	3	3	0.30	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	15.30	653	134
Oromahoe Road Paua Road	_	2092	1,273	150 1,573	150 300	4	0	3	2 4	0.30	0	0	0	0	0	0	2	2	0	0	0	0	0	2	0	0	0	15.30 15.30	654	232 233
Sandhills Road		2292	10,820	11,120	300	4	3	3	3	0.30	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	15.30	656	234
Sandhills Road Bell Road		2292 1532	11,605 2,340	11,905 2,544	300 204	4	3	3	3	0.30	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	15.30 15.30	657	235 377
Bullmans Road		1567	1,433	1,583	150	1	5	2	5	0.30	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	15.30	659	378
Kunicich Road Horahora Road	_	1882	1,076	1,376 3,673	300 300	2	5	1 0	5	0.30	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	15.30 15.30	660 661	379 547
Otaha Road		2101	<u> </u>	,	1,060	3	3	2	3	2.30	0	0 0	0	0	0	0	0	2	0 0	0	0	0	0	0	0 0	0	0	15.30	662	548
Rangikohu Road Dangen Road	EPIKAURI R	2229		1,287	300 300	1	4	0	4	0.30	0	0	0	0	0	0	0	2	2	0	0	0	0	0	2	1	0	15.30 15.30	663 664	549 748
Jordan Road		1812	10,006		300	1	5	2	5	0.30	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	15.30	665	748
Paponga Road		2129	2,631	2,931	300	2	0	1	2	0.30	0	0	0	0	0	0	2	1	3	0	0	0	0	0	2	2	0	15.30	666	750
Diggers Valley Road Koutu Loop Road		1639 1879	9,105	9,405	300 300	2	0	1 3	0	0.30	0	0	0	0	0	0	2	2	2	0	0	1	2	0	2	1 0	0	15.30 15.30	667	955 956
Waiotehue Road		2509	14,671	14,971	300	1	0	1	2	0.30	0	0	0	0	0	0	2	1	3	0	0	1	0	0	2	2	0	15.30	669	957
Mangatoetoe Road Pakaru Road		1936 2123	0.540	0.010	300 300	2	0	2	2	0.30	0	0	0	0	0	0	2	1	2	0	0	0	0	2	2	1	0	15.30 15.30	670 671	1202 1203
Dykin Road		1660	0	706	706	2	3	2	3	2.25	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	15.25	672	380
Cavalli View Road Housham Road	+	3110 1764		600 181		1	5	2	5	0.25	0	0	0	0	0	0	0	1 2	0	0	0	0	0	0	0	0	0	15.25 15.25	673 674	751 752
Diggers Valley Road		1639	5,529	6,028	499	2	0	1	0	0.25	0	0	0	0	0	0	2	2	2	0	0	1	2	0	2	1	0	15.25	675	958
Mill Road Motukiore Road	KAINGAROA	2008	· · ·		300 300	2	1 3	3	2	0.25	0	0	0	0	0	0	0	1	5	0	0	0	0	0	0	0	1 0	15.25 15.20	676 677	1593 381
Rata Street	NINETY MIL	3026		5,226	155	1	3	1	3	5.20	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	15.20	678	382
Rowsell Lane		2271			304	1	3	2	3	4.20	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	15.20	679	383
Kohe Road Mangataraire Road		1864 1933		196 1,875		2	3	0	3	0.20	0	0	0	0	0	0	2	1	0	0	0	0	0	0	2	1	0	15.20 15.20	680 681	550 551
Otengi Road		2108	169	469	300	3	5	1	5	0.20	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	15.20	682	552
Sandhills Road Paponga Road		2292 2129		5,117 3,926	300 300	2	5	2	5	0.20	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	15.20 15.20	683 684	553 753
Sawyer Road		2295	5,012	5,312	300	1	2	2	3	0.20	0	0	0	0	1	4	1	1	0	0	0	0	0	0	0	0	0	15.20	685	754
Amblers Road Matawaia-Maromaku Road		1497 1977	976 1,940			2	3	3	3	0.20	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	15.20 15.20	686 687	959 960
Puha Road		2183	1,355	1,655	300	3	3	2	3	0.20	0	0	0	0	0	0	1	1	0	0	0	0	0	2	0	0	0	15.20	688	960
Waiare Road		2484	<u> </u>	21,398	300	2	0	3	2	0.20	0	0	0	0	1	0	2	0	0	0	0	1	2	2	0	0	0	15.20	689	962
Waimatenui / Mataraua Road Waiotehue Road		2600 2509		13,874 8,253	300 300	2	0	3	2	0.20	0	0	0	0	0	0	2	0	1 3	0	0	0	2	1 0	2	2	0	15.20 15.20	690 691	1204 1417
Mangatoetoe Road		1936	3,699	3,999	300	2	0	3	0	0.20	0	0	0	0	0	0	2	1	2	0	0	0	0	2	2	1	0	15.20	692	1594
Waimatenui / Mataraua Road Sandhills Road	+	2600		16,832 10,746	321 300	2	0	3	2	0.20	0	0	0	0	0	0	1 0	0	1 0	0	0	0	2	1 0	2	1	0	15.20 15.15	693 694	1595 554
Taylor Road		2405	0	347	347	0	5	2	5	1.15	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	15.15	695	555
Big Flat Road	OKAIHAU	1537 1891		257 1,999	257 300	2	5	1 3	5	0.15	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	15.15 15.15	696 697	755 756
Lake Road Amblers Road	ONAINAU	1891				4	3	3	3	0.15	0	0	0	0	0	0	2	1 2	0	0	0	0	0	0	0	0	0	15.15	697	963

TL Priortisation

						_							12 of 29 Pr	inted on 19	)/06/2021		END O UN					0-4'	-1					A	PPEN	IDIX 2
			R	AMM DATA			-												ED DMF (C	overing PG	F and IIF	Lategories	5)							
						ault	Default	Default	Default	Factor of	Factor of	Factor of Importan	Factor of Importan	Factor of Importan	Default	Default	Factor of Importan	Factor of Importan	Default	Default	Default	Default	Default	Default	Default	Default	Default	####		
۲,		<b>T</b>	<b>&lt;</b>	<b>&lt;</b>	. र <b>म</b> ्		Delaun		Delaute	ce	ce	ce	ce	ce	Delaute	Delaute	ce	ce	Deluure	Delaute	Delaun	Delouit	Deladate	Delaun	Delutit	Delaun	Deruurt			
		$\sim$	$\sim$		$\sim$	Data	Data	Data	Data	200%	200%	100%	100%	100%	Data	Data	100%	100%	Data	0	0	Data	Data	Data	Data	Data	Data			
Range of Data					14 - 2671	0 - 5	0 - 5	0 - 5	0 - 5	0 - 13	0 - 10	0 - 3	0 - 5	0 - 5	0 - 4	0 - 4	0 - 2	0 - 2	0 - 5	0 - 0	0 - 0	0 - 2	0 - 2	0 - 2	0 - 2	0 - 2	0 - 3	1 - 31	1 - 1810	1 - 1031
					ŀ	0	25	20	30	0.025	0	0	0	0	0	0	open plains	More than 2 events per 0-1 events	0	\$3,000	\$3,000,000	on this	No Resilience	NO RESILIENCE	No	0	0	0	-	
					-	1	26	21	31	0.075	0	0	0	0	1	1	featurer	Less than one	1-2	\$9,000	\$975,000	Road but no Road	Road but no	Road		1-2	1	1	-	
					ŀ	6	30	45 85	38	0.100	0	0	0	0	2	2	enclosed	ought ought	2-3 3-5	\$30,000 \$106,000	\$375,000 \$112,500	Sections	Sections	Sections	YES	>3	2	2	-	
					9,477	26	50	185	68	0.300	0	0	0	0	4	4			5-7	\$371,000	\$37,501		<u> </u>				4	4	1	
						50	70	350	100	0.350	1	2	1	1	5	5			7-10	\$1,295,000	\$37,500						5	5	1	
						SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCO RE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	PRIORITY	PRIORITY
						UCV F day		IDV F days			Cabaarb		Chambre 1		F					Annual	E-1-1-1	T	D'anter			¥	Nature de	END C	END C Barrel	Circles
Road Name	Location	Road ID	Start	End	Length	HCV 5 day AADT	HCV Speed	LDV 5 day AADT	Speed of LDVs (Est)	Houses within	Schools FNDC	Maraes FNDC	Churches FNDC	Health Centers	Ecological Areas	Horicul- tural areas	Location of	Frequency of rain	Longevity of HCV	Mntence Cost	Estimated Sealing	Tourism Route	Disaster Resilience	Network Resilience	Logging Route	Years of Logging /	Milk sheds FNDC	FNDC	FNDC Road Rating	Circular 16/04
noud nume	Location	Nourib	Start	Citor Citor	congen	FNDC	FNDC	FNDC	FNDC	(300m				FNDC	FNDC	FNDC	Roadway	days	route	Prev 3 year	Cost	FNDC	FNDC	FNDC	FNDC	HCV Est.			FNDC	Rating
										from							FNDC	FNDC	FNDC	av./km	FNDC					FNDC		OVERALL		1 1
		4777								road)										FNDC								FNDC	600	
Horahora Road Smith Road	MOEREWA	1777	3,684	· · · ·		2	3	0	5	0.15	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	15.15 15.15	699 700	964 1205
Pipiwai Road		2164	1,866	5 2,166	300	2	0	3	2	0.15	0	0	0	0	0	0	2	1	2	0	0	0	0	0	2	1	0	15.15	701	1418
Mangatoetoe Road		1936	4,934			1	0	2	2	0.15	0	0	0	0	0	0	2	1	2	0	0	0	0	2	2	1	0	15.15	702	1596
Mangatoetoe Road Taratara Road		1936 2388	5,451	L 5,751	300	1 3	0	2 3	2	0.15 3.10	0	0	0	0	0	0	2	1	2	0	0	0	0	2	2	1 0	0	15.15 15.10	703	1597 757
McIntyres Road		1993	5,575	5,917	342	1	4	2	4	0.10	0	0	0	0	0	0	1	1	0	0	0	0	0	2	0	0	0	15.10	705	1206
Mangatoetoe Road Tapuhi Road		1936 2384	5,783 9,830		346	1	2	2	2	0.10	0	0	0	0	0	0	2	1	2	0	0	0	0	2	2	1	0	15.10 15.10	706	1598 1781
Puckey Road	+	2384			150	1	5	1	5	1.05	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	15.05	707	135
Weber Waihapa Road		2532	785		300	3	4	1	4	0.05	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	15.05	709	965
Burnage Road Tapotupotu Road		1569 2383	0	889	889 150	4	0	3	2	3.00	0	0	0	0	0	1 0	0	2	0	0	0	0	0	0	0	0	0	15.00 15.00	710	136 236
Ngataki Road		2039				3	3	3	3	1.00	0	0	0 0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	15.00	712	384
Te Tii Road		2431	188			3	2	4	3	1.00	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	15.00	713	385
Otengi Road Ramp Road	-	2108	1,254		330	3	3	1 3	4	1.00 0.00	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	15.00 15.00	714 715	556
Te Karoa Road		2418	356	5 1,184		3	0	3	2	4.00	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	15.00	716	558
Duddy Road Bullmans Road		1652 1567	1,124		373	3	0	4	0	1.00	0	0	0	0	0	0	2	1 2	1	0	0	0	0	0	2	1	0	15.00 15.00	717 718	758 966
Heath Road		1307	4,320			2	0	2	2	1.95	0	0	0	0	0	1	1	2	0	0	0	1	0	2	0	0	0	14.95	718	386
Gangway Road		1702	0	1,086	1,086	1	0	2	2	7.95	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	14.95	720	559
Te Huahua Road Matawaia-Maromaku Road		2413	· · · ·	7 1,880 L 10,670	193 189	2	5	2 4	4	0.90	0	0	0	0	0	0	0	1 2	0	0	0	0	0	0	0	0	0	14.90 14.90	721	137 237
Lamb Road		1892	· · ·	· · ·	545	2	3	3	4	0.90	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	14.90	723	560
Warawara Forest Road Zidich Road		2604		0 550 0 702	550	1	2	1	3	1.90	0	0	5	0	0	0	0	1	0	0	0	0	0	0	0	0	0	14.90	724	561
Omanaia Road		2075	3,215	-	580	2	3	2	3	1.90 0.90	0	0	0	0	0	0	1	2	0	0	0	0	0	2	0	0	0	14.90 14.90	725	562 967
Paiaka Road		2120	3,173			3	3	2	3	0.80	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	14.80	727	968
Beach Road Sweetwater Road	DOVES BAY	3103 2352	2,106	0 188 5 2,485	188	1 4	4	2	4	1.70 0.70	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	14.70 14.70	728	138 387
Te Ahu Road		2408	1,953		300	3	3	3	3	0.70	0	0	0 0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	14.70	730	563
Callaghans Road		1574	1,907	7 2,207	300	3	3	3	3	0.70	0	0	0	0	0	0	1 2	1 2	0	0	0	0	0	0	0	0	0	14.70	731 732	759
Matawaia-Maromaku Road Waiotemarama Gorge Road		2510		<u> </u>		3	0	4	0	0.70	0	0	0	0	0	0	2	1	1	0	0	0	0	0	2	1	0	14.70 14.70	732	760
Motukiore Road		2025	4,422	4,818	396	3	3	3	3	0.65	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	14.65	734	762
Davis Strongman Place Jordan Road		3164 1812	426			1 3	3	1 2	4	1.60 0.60	0	0	0	0	0	0	0	2	0	0	0	2	0	0	0	0	0	14.60 14.60	735	388 564
Tirohanga Road		2447	0	1,482	1,482	4	0	3	1	1.60	0	0	0	0	1	0	0	2	0	0	0	2	0	0	0	0	0	14.60	737	565
Omaunu Road		2078				3	0	4	0	0.60	0	0	0	0	0	0	2	1	1	0	0	0	0	0	2	1	0	14.60	738	763
Omanaia Road Taratara Road	-	2075	3,898			2	3	2	3	0.60	0	0	0	0	0	0	1	1	0	0	0	0	0	2	0	0	0	14.60 14.60	739 740	969 970
Fisher-Riley Road		1684	678	3 1,044	366	4	0	2	2	0.50	0	0	0	0	0	0	2	2	0	0	0	2	0	0	0	0	0	14.50	741	566
Te Ahu Road Whangape Road		2408 2555				3	3	2	3	1.50 0.50	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	14.50 14.50	742 743	567 568
Rangi Point Road		2333		5 6,234		3	4	2	4	0.45	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	14.45	743	569
Rigden Road		2259	0	1,482	1,482	2	1	2	2	4.45	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	14.45	745	971
Parapara-Toatoa Road Puketotara Road		2133 2196				0	2	1 3	3	3.45 0.40	0	0	0	0	0	0	2	1 0	0	0	0	0	0	2	0	0	0	14.45 14.40	746	1207 389
Taumata Road		2394		· · · ·		1	1	1	2	0.40	0	0	0	0	0	0	2	1	1	0	0	0	0	2	2	1	0 0	14.40	748	1599
Fisher-Riley Road		1684	· · · ·	<u> </u>		4	0	2	2	0.35	0	0	0	0	0	0	2	2	0	0	0	2	0	0	0	0	0	14.35	749	570
Kenana Road Waimatenui / Mataraua Road		1844 2600				2	2	3	3	0.35	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	14.35 14.35	750	764 1419
Te Hapua Road		2411	9,530	9,830	300	4	1	4	2	0.30	0	0	0	0	1	0	0	2	0	0	0	0	0	0	0	0	0	14.30	752	139
Gills Road Remuera Settlement Road	AWANU	1705 2251				1	2	2	3	0.30	0	0	0	0	1 0	2	0	2	0	0	0	0	0	1 0	0	0	0	14.30 14.30	753	238
Toia Road		2251		2,647		2	5	3 1	5	0.30	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	14.30	754	390 391
Tepene Tablelands Road		2436	1,391	l 1,691	300	3	3	3	3	0.30	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	14.30	756	571
Mata Road Matawaia-Maromaku Road		1966 1977				3	2	3 4	3	0.30	0	0	0	0	0	0	2	1 2	0	0	0	0	0	0	0	0	0	14.30 14.30	757	765
Paparore Road		2126	2,103		324	1	3	3	3	0.30	0	0	0	0	0	0	0	2	0	0	0	1	0	1	0	0	0	14.30	758	767
Waiotehue Road		2509				1	0	1	0	0.30	0	0	0	0	1	0	2	1	3	0	0	1	0	0	2	2	0	14.30	760	768
Waiotemarama Gorge Road Paponga Road		2510 2129				2	0	2	0	0.30	0	0	0	0	1 0	0	2	1	1 3	0	0	0	0	2	2	2	0	14.30 14.30	761 762	769 972
L P	_		1,0//	. 2,2//		<u> </u>	, ř		-	0.50	. ř	- Ť	, ř		, ř					, v		v		Ň	-	-	, v	21.00	1.02	

			DA	MM DATA									13 of 29 Pr	inted on 19	/06/2021					overing PG	E and TIE (	Catagoria	-1					A	PEN	IDIX 2
_		-								Factor of	Factor of	Eactor of	Factor of	Eactor of	1	1	Factor of			overing re		categories	»,				1			
						ault	Default	Default	Default	Importan	Importan	Importan	Importan	Importan	Default	Default	Importan	Importan	Default	Default	Default	Default	Default	Default	Default	Default	Default	####		
			$\checkmark$			Data	Data	Data	Data	ce 200%	ce 200%	ce 100%	ce 100%	ce 100%	Data	Data	ce 100%	ce 100%	Data	0	0	Data	Data	Data	Data	Data	Data			
Range of Data		· ·			14 - 2671	0 - 5	0-5	0 - 5	0-5	0 - 13	0 - 10	0 - 3	0 - 5	0 - 5	0 - 4	0-4	0 - 2	0 - 2	0 - 5	0 - 0	0-0	0 - 2	0 - 2	0-2	0 - 2	0 - 2	0-3	1 - 31	1 - 1810	1 - 1031
						0	25	20	30	0.025	0	0	0	0	0	0	open plains	More than 2 events ner 0-1 events	0	\$3,000	\$3,000,000	on this	No Resilience	No Resilience	No	0	0	0		
						1	26	21	31	0.075	0	0	0	0	1	1	festurer in land	Less than one	1-2	\$9,000	\$975,000	Road but no Road	Road but no	Road but no.		1-2	1	1	4	
					ŀ	6	30 40	45 85	38 50	0.100	0	1	0	0	2	2	onclosed	ovent even	2-3	\$30,000 \$106,000	\$375,000 \$112,500	Sections	Sections	Sections	YES	>3	2	2	1	
					9,477	26	50	185	68	0.300	0	0	0	0	4	4			5-7	\$371,000	\$37,501						4	4	1	
						50 SCORE	70 SCORE	350 SCORE	100 SCORE	0.350 SCORE	1 SCORE	2 SCORE	1 SCORE	1 SCORE	5 SCORE	5 SCORE	SCORE	SCORE	7-10 SCORE	\$1,295,000 SCORE	\$37,500 SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	5 SCORE	5 SCORE	PRIORITY	PRIORITY
							SCORE		SCORE	JEONE	JCOILE	JEONE	SCORE	JEONE	SCORE	SCORE	SCORE	SCORE	SCORE	Annual	SCORE	SCORE	JOOKE	SCORE	SCORE	JCORE	JCORE	SCORE		T NONT
Road Name	Location	Road ID	Start	End	Longth	HCV 5 day AADT	HCV Speed	LDV 5 day AADT	Speed of LDVs (Est)	Houses within	Schools FNDC	Maraes FNDC	Churches FNDC	Health Centers	Ecological Areas	Horicul- tural areas	Location of	Frequency of rain	Longevity of HCV	Mntence Cost	Estimated Sealing	Tourism Route	Disaster Resilience	Network Resilience	Logging Route	Years of Logging /	Milk sheds FNDC	FNDC	FNDC Road Rating	Circular 16/04
Noad Name	Location	Koau ID	Start	End	Length	FNDC	FNDC	FNDC	FNDC	(300m				FNDC	FNDC	FNDC	Roadway	days	route	Prev 3 year	Cost	FNDC	FNDC	FNDC	FNDC	HCV Est.			FNDC	Rating
										from road)							FNDC	FNDC	FNDC	av./km FNDC	FNDC					FNDC		OVERALL FNDC		
Takou Bay Road	_	2374	6,024	6,624	600	3	0	4	0	1.30	0	0	0	0	0	0	0	1	2	0	0	0	0	0	2	1	0	14.30	763	973
Wairahoraho Road		2516 2129	390 14,867	858 15,167	468 300	1	5	1	5	0.30	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	14.30 14.30	764 765	974 1208
Paponga Road Mangakaretu Road		1927	2,601	2,951	350	2	3	2	3	0.30	0	0	0	0	0	0	0	1	0	0	0	2	0	0	0	0	0	14.30	765	1208
Pembroke Street Matawherohia Road	_	2149 1979	320 6,389	475 7,639	155 1,250	1 4	2	1	3	6.25 2.25	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	14.25 14.25	767	572 770
Araiawa Road		1501	0,369	153	153	1	4	0	4	1.20	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	14.20	769	140
Godinovich Road Ngataki Road		1706 2039	0	745	745	1	4	0	4	3.20 3.20	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	14.20 14.20	770	239 240
Clarke Road		1603	555	855	300	2	4	2	4	0.20	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	14.20	772	392
Wairahoraho Road Sweetwater Road		2516	1,326 1,587	1,550	224 420	4	5	1 2	5	0.20	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	14.20 14.20	773	393 573
Cable Bay Block Road		1573	3,317	3,678	361	2	2	3	3	0.20	0	0	0	0	1	0	1	2	0	0	0	0	0	0	0	0	0	14.20	775	771
Somerville Road Omaunu Road		3091 2078	813 12,724	1,113	300 300	2	4	1 3	4	0.20	0	0	0	0	0	0	1 2	1	0	0	0	0	0	2	0	0	0	14.20 14.20	776	772 975
Adams Road	AWARUA	1486 1910	1,442	1,624 187	182 187	2	3	2	3	0.20	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	14.20 14.20	778	1209
Lovatt Road Waiotemarama Gorge Road		2510	3,188	3,488	300	2	0	2	0	0.20	0	0	0	0	0	0	2	1	0	0	0	0	0	2	2	0	0	14.20	779 780	1210 1211
Matawaia-Maromaku Road Monument Road		1977 2020	2,598 319	2,898 707	300 388	0	3	3	3	0.20	0	0	0	0	0	0	2	2	0	0	0	0	1	0	0	0	0	14.20 14.20	781 782	1421 1422
Peria Valley Road		2157	7,214	7,514	300	0	1	1	2	0.20	0	0	0	0	0	0	2	1	1	0	0	0	2	1	2	1	0	14.20	783	1715
Champions Road Opara Road		1591 2083	2,927	1,362	1,362 150	2	0	3	2	2.15	0	0	0	0	1 0	0	2	2	0	0	0	0	0	0	0	0	0	14.15 14.15	784	773 976
Te Ahu Road		2408	1,054	1,354	300	3	3	3	3	0.15	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	14.15	786	977
Waiotemarama Gorge Road Omaunu Road	_	2510 2078	3,983 12,394	4,283	300 300	2	0	2	2	0.15	0	0	0	0	1 0	0	2	1	1	0	0	0	0	2	2	1	0	14.15 14.15	787	1212 1423
Paiaka Road Te Waiarohia Road		2120 2477	906	1,206 173	300 173	3	3	2	3	0.15 3.10	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	14.15 14.10	789 790	1424 394
Wells Road		2477	873	1,922	1,049	1	2	2	3	2.10	0	0	0	0	0	1	2	1	0	0	0	0	0	0	0	0	0	14.10	790	978
Hikurua Road Matawaia-Maromaku Road		1760 1977	57 5,336	586 5,672	529 336	3	2	2	3	0.10	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	14.10 14.10	792 793	1213 1214
Waiare Road		2484	22,263	23,486	1,223	2	0	3	0	2.10	0	0	0	0	0	0	2	0	0	0	0	1	2	2	0	0	0	14.10	794	1425
Waiare Road Brott Road		2484	20,229	20,640	411 603	2	0	3	1 4	0.10	0	0	0	0	1 0	0	2	0	0	0	0	1	2	2	0	0	0	14.10 14.05	795	1716 241
Saies Road		2286 1684	0	290	290 300	4	2	3	3	0.05	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	14.05	797	774
Fisher-Riley Road Paponga Road		2129	364 9,541	10,118	577	4	0	1	0	0.05	0	0	0	0	0	0	2	1	3	0	0	0	0	0	2	2	0	14.05 14.05	798 799	979 980
Pokapu Road Russell Road		2169 2283	9,910 1,449	10,210 1,774	300 325	2	2	3	3	0.05	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	14.05 14.05	800 801	981 982
Matawaia-Maromaku Road	1	1977	14,974	15,226	252	3	0	4	2	0.05	0	0	0	0	0	0	2	2	0	0	0	0	1	0	0	0	0	14.05	802	1215
Waiotemarama Gorge Road Omaunu Road		2510 2078	4,685 5,958	4,985	300 300	2	0	2 4	0	0.05	0	0	0	0	1 0	0	2	1	1	0	0	0	0	2	2	1	0	14.05 14.05	803 804	1216 1426
Omaun u Road		2078	9,514	9,814	300	2	0	3	2	0.05	0	0	0	0	0	0	2	1	1	0	0	0	0	0	2	1	0	14.05	805	1427
Waimatenui / Mataraua Road Noy Road	+	2600 2054	18,090 0	18,390 150		2	0	3	1 2	0.05	0	0	0	0	0	0	1	0	1 0	0	0	0	2	1 0	2	0	0	14.05 14.00	806 807	1717 395
Mangataipa Road		1932	2,421	2,992		3	1	3	2	2.00	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	14.00	808	574
Paponga Road Waiohanga Road		2129 2506	7,700	8,217 150	517 150	1 2	0 5	1	0 5	1.00 0.00	0	0	0	0	1 0	0	2	1	3	0	0	0	0	0	2	2	0	14.00 14.00	809 810	983 984
Weber Waihapa Road		2532	4,701	5,285		2	0	2	0	1.00	0	0	0	0	0	0	0	1	5	0	0	0	0	2	0	0	1	14.00	811	1428
Burnage Road Domain Road		1569 3319	992 29	1,387 804		4	0	2	2	0.95	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	13.95 13.95	812 813	70 575
Taemaro Road Pukewhao Road		2357 2198	1,076	1,943 301	867 301	1	1 3	3	2	0.90 2.90	0	0	0	0	0	0	2	2	0	0	0	0	0	2	0	0	0	13.90 13.90	814 815	985 396
Paua Road		2144		6,085	300	1	5	0	5	0.85	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	13.85	816	576
Sawyer Road Mangatete Heights		2295 3243	3,063 81	3,741 1,274		1	1 2	2	2	0.85	0	0	0	0	1 0	4	1 0	1 2	0	0	0	0	0	0	0	0	0	13.85 13.85	817 818	577 775
Omanaia Road		2075	4,299	4,705	406	1	2	3	3	0.85	0	0	0	0	0	0	1	1	0	0	0	0	0	2	0	0	0	13.85	819	776
Squires Lane Te Ahu Road	+	2336 2408	0 1,386	588 1,740		1 3	3	2	3	3.85 0.80	0	0	0	0	0	0	0	1 2	0	0	0	0	0	0	0	0	0	13.85 13.80	820 821	777 578
Kohumaru Road	1	1862	888	1,308	420	0	0	3	2	0.80	0	0	0	0	0	0	2	1	2	0	0	0	0	0	2	1	0	13.80	822	986
Mangatoetoe Road Courthouse Lane		1936 3046	603 0	1,035 247	432	1 2	0 4	2	0	0.80	0	0	0	0	0	0	2	1 2	2	0	0	0	0	2	2	0	0	13.80 13.75	823 824	1217
Coppermine Road		1615	0	420	420	2	3	1	3	0.75	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	13.75	825	579
Thompson Road		2441	0	1,336	1,336	1	3	1	3	4.75	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	13.75	826	987

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Image bad         Part bad																	-		-		-		-			_				-	
Transman         1         4         2         4         1.55         0        0         0								-		0				-			0	-	-	-			0	-	-	-	-	-		_	
Piccore basis         Piccore				1,497			1		-	4		-	-			-	0	-		-		-	0	-	-	-	-	-		-	
Distant Seale         No.         State				0			1												-	-	-	-								_	
hyper basis         LAST         9391         94-60         953         1         5         0         5         0.0         0        0         0         0 <td></td> <td></td> <td></td> <td>· · · ·</td> <td></td> <td></td> <td></td> <td>· ·</td> <td>-</td> <td>· ·</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td>_</td> <td></td>				· · · ·				· ·	-	· ·							-				-				-					_	
pickage no bia         pickage				· · · ·				5				-				-	-		-		-	-		-	-		-			_	
beckgook bad         9031         0         522         5231         1         4         0        0		EAST				<u> </u>	3	1	4	2	0.00	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	12.50	-	
Champions Road         1591         2.249         2.515         264         745         1.45         0         <	Bedggood Road		3031	0		521									-				-	-					-			+		863	784
Instruct Read         1276         1.377         2.007         700         1         2         3         2         3         3         1.45         0         0         0         1         0        0         0         0																			-									-		-	
Tarkara Raid         2388         1,603         1,648         361         3         0         3         2         1,40         0         0         0         1         1         0        0         0         0<	Hariru Road		1736	1,307	2,007	700	3	2	3	3	1.45	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	13.45	866	587
Inconder No.d         1177         2,085         2,587         400         0        0         0         0 <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>_</td> <td></td>																				-										_	
Whise Road         255         1.300         2.088         668         2         3         2         3         1.0         0        0         0         0 <td>Horahora Road</td> <td></td> <td></td> <td></td> <td></td> <td>508</td> <td></td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td>-</td> <td></td> <td></td> <td></td> <td>-</td> <td></td>	Horahora Road					508			-						-					-					-	-				-	
Therman Road         2357         0         427         447         1         3         2         0.40         0        0																				-					-	-		+		_	
Isy Road       1748       139       585       446         Paua Road       2144       6,103       6,253       150         Paua Road       2144       6,103       6,253       150       1       0 <t< td=""><td></td><td></td><td></td><td>1,590</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>-</td><td></td><td></td><td></td><td></td><td>-</td><td>-</td><td></td><td>+</td><td></td><td></td><td></td></t<>				1,590																-					-	-		+			
Pain Road         1         5         0         5         0        0         0         0<	Waikare Valley Road		2485		3,139	763	3	1	3	2	1.40	0	0	0	0	0	0	0	1	0	0	0	2	0	0	0	0	0	13.40	873	996
FishersRiey Road         1684         3,934         4,415         441         0         2         1         0.35         0         <		-																		-					-			+		_	
Peria Road         2156         5,677         6,050         373         5         0         4         1         0.35         0        0         0         0 <td>Fisher-Riley Road</td> <td></td> <td>1684</td> <td></td> <td>4,415</td> <td>481</td> <td></td> <td></td> <td>2</td> <td></td> <td>0.35</td> <td></td> <td>0</td> <td>0</td> <td></td> <td>0</td> <td></td> <td></td> <td>2</td> <td>0</td> <td></td> <td>0</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> <td>13.35</td> <td>876</td> <td>787</td>	Fisher-Riley Road		1684		4,415	481			2		0.35		0	0		0			2	0		0						0	13.35	876	787
Remuera Settlement Road         2251         5,279         5,836         557           Waikare Road         2491         16,282         16,764         442         44         0.35         0				5 677																	-									_	
Waihapa Road       2486       1,284       1,659       375         Maraenui Drive       1942       450       470       200       1       3       2       4       1,30       0	Remuera Settlement Road		2251	5,279	5,836	557			-	4					-					-					-			-		879	
Maraenui Drive       1       1       3       2       4       1.30       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       1.30       882       406         Bullmans Road       1.59       746       1.691       300       2       4       0.30       0																				-								+		_	
Bullmans Road       1567       746       1,046       300       1       4       2       4       0.30       0       0       0       0       0       0       0       0       0       0       0       0       1.30																				-					-	-		-		_	
OtengiRoad       2108       912       1,212       300       4       1       4       0.30       1.30       885       592         Haru Road       1736       0       648       648       3       2       3       3       1.30       0	Bullmans Road		1567	746	1,046	300	1	4	2	4	0.30	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	13.30	883	590
Harin Road       1736       0       648       648       648       648       648       3       2       3       1.30       0       0       0       0       0       1       0       0       0       0       0       0       0       0       0       0       0       0       0       0       1.30       886       789         Matawaia-Maromaku Road       1977       9,572       10,096       524       3       0       4       0       1.30       0 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td>-</td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td>-</td> <td></td> <td>-</td> <td></td> <td>_</td> <td></td>								-	-						-				-	-					-	-		-		_	
Matawaia-Maromaku Road       1977       9,572       10,096       524       3       0       4       0       1.30       0       0       0       0       0       0       0       0       0       0       1.30       790         Omahuta Road       2074       2,007       2,307       300       1       3       1       3       0.30       0       0       0       1       0       0       0       0       1.30       887       790         Pakaru Road       2123       5,787       6,144       357       1       3       1.30       0.30       0       0       0       1       1       0       0       0       0       0       1.30       887       790         Pakaru Road       2123       5,787       6,144       357       2       3       1.30       0       0       0       1       1       0																														-	
Pakaru Road 2123 5,787 6,144 357 2 3 2 3 1.30 0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0	Matawaia-Maromaku Road		1977			524	3	0	4		1.30				0				2	-									13.30	_	790
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			K/	AMM DATA			-													overing PG	F and IIF	Categories	5)							
							Default	Defeult	Defeut	Factor of	Factor of			Factor of	Defeult	Defeult	Factor of			Defeult	Defeult	Defeult	Defeult	Default	Default	Defeult	Default	<i></i>		
ج <b>ا</b>		₹ ▶	₹ ▶	₹ ▶	4	ault	Default	Default	Default	Importan ce	Importan ce	Importan ce	Importan ce	Importan ce	Default	Default	Importan ce	Importan ce	Default	Default	Default	Default	Default	Default	Default	Default	Default	****		
		$\sim$	$\sim$	$\checkmark$		Data	Data	Data	Data	200%	200%	100%	100%	100%	Data	Data	100%	100%	Data	0	0	Data	Data	Data	Data	Data	Data	1		
Range of Data					14 - 2671	0 - 5	0-5	0-5	0-5	0 - 13	0 - 10	0-3	0 - 5	0-5	0 - 4	0 - 4	0 - 2	0-2	0 - 5	0 - 0	0 - 0	0 - 2	0 - 2	0-2	0 - 2	0 - 2	0-3	1 - 31	1 - 1810	1 - 1031
						0	25	20	30	0.025	0	0	0	0	0	0	open plains	More than 2	0	\$3,000	\$3,000,000	on this	NO RESILIENCE	NO RESILIENCE Road	No	0	0	0		
						1	26	21	31	0.075	0	0	0	0	1	1	featurer in land	0-1 events	1-2	\$9,000	\$975,000	Road but no	On Resilience	On Resilience Road but no Road		1-2	1	1	]	
						6	30	45	38	0.100	0	0	0	0	2	2	in land	Less than one	2-3	\$30,000	\$375,000	Road Sections	Road	Road	YES	>3	2	2		
						11	40	85	50	0.150	0	1	0	0	3	3			3-5	\$106,000	\$112,500						3	3	4	
					9,477	26	50 70	185 350	68 100	0.300	0	2	0	0	4	4			5-7 7-10	\$371,000 \$1,295,000	\$37,501 \$37,500		<u> </u>				4	4	-	
						SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	PRIORITY	PRIORITY
																				Annual										
						HCV 5 day	HCV	LDV 5 day	Speed of	Houses within	Schools FNDC	Maraes FNDC	Churches	Health	Ecological	Horicul-	Location	Frequency	Longevity	Mntence	Estimated	Tourism	Disaster	Network	Logging	Years of	Milk sheds	FNDC	FNDC Road	
Road Name	Location	Road ID	Start	End	Length	AADT FNDC	Speed FNDC	AADT FNDC	LDVs (Est) FNDC	(300m	FNDC	FNDC	FNDC	Centers FNDC	Areas FNDC	tural areas FNDC	f of Roadway	of rain days	of HCV route	Cost Prev 3 year	Sealing Cost	Route FNDC	Resilience FNDC	Resilience FNDC	Route FNDC	Logging / HCV Est.	FNDC		Rating FNDC	16/04 Rating
										from							FNDC	FNDC	FNDC	av./km	FNDC					FNDC		OVERALL		
										road)										FNDC								FNDC		
Okakewai Road		2063			520	3	2	2 4	3	1.30	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	13.30	891	1000
Pupuke Mangapa Road Pipiwai Road		2203	7,223	7,523	300 300	2	0	3	0	0.30	0	0	0	0	0	0	2	1	0	0	0	0	0	0	2	0	0	13.30 13.30	892 893	1001 1222
Taheke Road		2359	13,190	13,490	300	3	0	3	2	0.30	0	0	0	0	0	0	0	1	0	0	0	2	2	0	0	0	0	13.30	894	1223
Backriver Road Jacksons Road	OMAHUTA	1516 3379	6,127	6,427	300 422	1	0	2	0	0.30	0	0	0	0	0	0	2	1	2	0	0	0	0	2	2	1	0	13.30 13.30	895 896	1433 1434
Omanaia Road	GINATIOTA	2075	2,484		422	1	3	2	3	0.30	0	0	0	0	0	0	1	1	0	0	0	0	0	2	0	0	0	13.30	896	1434
Mangatete Road		1935	160	551	391	1	5	0	5	0.25	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	13.25	898	1002
Taratara Road Fisher-Riley Road		2388 1684	3,688	,	719 610	2	1	3	2	1.25	0	0	0	0	0	0	1 2	2	0	0	0	0	0	2	0	0	0	13.25 13.20	899 900	1224 593
Lake Ohia Bypass Road		3450	0	2,300	294	1	5	0	5	0.20	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	13.20	901	594
Pinehill Road		1772	6	384	378	1	5	1	4	1.20	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	13.20	902	595
Trig Road Puhata Road		2460 2184	1,520	1,820 351	300 351	3	2	3	3	0.20	0	0	0	0	0	0	2	2	0	0	0	0	0	0	2	0	0	13.20 13.20	903 904	596 794
Stanners Road		2340	3,829	4,129	300	1	4	2	4	0.20	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	13.20	905	795
Wharau Road		2560	3,147	3,447	300	2	3	3	3	0.20	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	13.20	906	796
Peria Road Motukiore Road		2156	663		220 521	0	3	4	3	0.20	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	13.20 13.20	907 908	1003
Paponga Road		2129	8,448	· · ·	300	1	0	1	0	0.20	0	0	0	0	1	0	2	1	3	0	0	0	0	0	2	2	0	13.20	909	1226
Mangatoetoe Road		1936 2349	0 394	185	185 899	1	0	2	0	0.20	0	0	0	0	0	0	2	1	2	0	0	0	0	2	2	1	0	13.20	910	1719 797
Sturmfel Road Waiaua Road	<u> </u>	3130	0	879	879	3	0	3	0	2.15	0	3	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	13.15 13.15	911 912	798
Mangataipa Road		1932	811		300	3	1	3	2	0.15	0	0	0	0	1	0	2	1	0	0	0	0	0	0	0	0	0	13.15	913	1004
Mangatete Road Rangi Point Road		1935 2223	587	830 1,530	243 300	3	5	0	5	0.15	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	13.15 13.15	914 915	1005
Edwards Road		1667	311	461	150	1	5	0	5	0.15	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	13.15	916	1227
Pine Hill Road		2161	3,090	3,390	300 246	2	2	1	3	0.15	0	0	0	0	0	0	0	1	1	0	0	0	0	0	2	1	0	13.15	917	1228
Keogh Road Edmonds Road		1848 1666	422	272	771	1	4	0	2	2.10	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	13.10 13.10	918 919	244
Pekerau Road		2148	2,405		426	3	0	3	2	1.10	0	0	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	13.10	920	597
Waikare Road Peria Road		2491 2156	18,899 6,250	19,264 6,496	365 246	4	0	3	1	0.10	0	0	0	0	2	0	0	1	0	0	0	0	2	0	0	0	0	13.10 13.05	921 922	799 245
Hobson Road	MANGAMU	3116	329	479	150	1	5	0	5	0.05	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	13.05	923	800
Mill Road	KAINGAROA	2008	2,052	2,513	461	2	3	3	3	1.05	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	13.05	924	801
Cox Road Horahora Road		3062	2.646	1,004	307 300	1	0	1 0	4	1.05 0.05	0	0	0	0	0	0	2	2	5	0	0	0	0	0	0	0	0	13.05 13.05	925 926	1007 1008
Mangataipa Road		1932	1,704	2,176	472	3	0	3	0	1.05	0	3	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	13.05	927	1009
Adams Road Hariru Road	AWARUA	1486 1736	983		300 300	2	2	2	3	0.05	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	13.05 13.05	928 929	1229 1230
Jordan Road		1/50		· · ·	300	1	4	2	4	0.05	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	13.05	929	1230
Waikare Road		2491	17,901		300	3	0	3	1	0.05	0	0	0	0	1	0	2	1	0	0	0	0	2	0	0	0	0	13.05	931	1232
Peria Valley Road Matawherohia Road		2157 1979	9,051	9,351 569	300 332	0	0	1 3	2	0.05	0	0	0	0	0	0	2	1	1 0	0	0	0	2	1 0	2	1	0	13.05 13.00	932 933	1720 598
Sawyer Road		2295	5,946	6,351	405	1	0	2	2	2.00	0	0	0	0	0	4	1	1	0	0	0	0	0	0	0	0	0	13.00	934	599
Sweetwater Road		2352	1,302		74	4	0	2	2	0.00	0	0	0	0	1	0	0	2	0	0	0	0	0	2	0	0	0	13.00	935	600
Camp Road Whangape Road		1576 2555	2,241	329 2,855	329 614	1 3	3	1 3	3	1.00	0	0	0	0	0	0	2	2	0	0	0	0	0	2	0	0	0	13.00 13.00	936 937	802 803
Araroa Road		1502	199	294	95	1	5	0	4	0.00	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	13.00	938	1010
Lamb Road		1892	557		143	2	3	3	3	0.00	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	13.00	939	1011
Waipapakauri Domain Road Poieke Road		2515 3334		521 150	240 150	1	4 5	2	4 4	0.00	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	13.00 13.00	940 941	1012 1233
Gammons Road		1701	80	184	104	2	3	2	3	0.00	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	13.00	942	1435
Hayters Road Marlow Road		1907 1948	4,274	150 5,062	150 788	1	0	0	2	0.00	0	0	0	0	0	0	2	1	3	0	0	0	0	0	2	2	0	13.00	943 944	1436
Marlow Road Oturu Block Road		1948	4,274		267	0	3	3	3	0.95	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	12.95 12.90	944 945	1234 804
Taratara Road		2388		2,922	342	2	1	3	2	0.90	0	0	0	0	0	0	1	1	0	0	0	0	0	2	0	0	0	12.90	946	1235
Huia Road Campbell Street		1790 1579	0	782	782	1	3	1 0	3	3.90 2.85	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	12.90 12.85	947 948	805 246
Motukaraka Point Road		2024	0	320	320	1	3	2	3	2.85	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	12.85	948	601
Jenkins Road		3166	0	399	399	1	0	1	2	0.85	0	0	0	0	0	0	2	0	5	0	0	0	0	0	0	0	1	12.85	950	1602
Garton Road Matawherohia Road		1703 1979	861 4,679		389 613	3	0	3	2	0.80	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	12.80 12.80	951 952	602 603
Te Ra Road		2428	778	1,301	523	3	2	3	3	0.80	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	12.80	952	603
	1	2298	305		395	2	5	0	5	0.80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12.80	954	806

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			D/	AMM DATA									16 of 29 Pr	inted on 19	/06/2021					overing PG	E and TIE (	Catagoria	e)					A	PPEN	IDIX 2
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						ault	Default	Default	Default	Importan	Importan	Importan	Importan	Importan	Default	Default	Importan	Importan	Default	Default	Default	Default	Default	Default	Default	Default	Default	####		
							Data	Dete	Data	ce	ce	ce	ce	ce	Data	Data	ce	ce	Dete		0	Data	Data	Data	Dete	Dette	Data			
Range of Data		<u> </u>	Ť	· ·	14 - 2671	• Data 0 - 5	Data 0-5	Data 0-5	Data 0-5	200% 0 - 13	200%	100% 0 - 3	100% 0 - 5	100% 0 - 5	Data 0 - 4	Data 0-4	100% 0 - 2	100% 0 - 2	Data 0-5	0-0	0-0	Data 0-2	Data 0-2	Data 0-2	Data 0-2	Data 0 - 2	Data 0-3	1 - 31	1 - 1810	1 - 1031
						0	25	20	30	0.025	0	0	0	0	0	0	open plains or coastal	More than 2	0	\$3,000	\$3,000,000	on this	NO RESILIENCE	NO RESILIENCE	No	0	0	0		
					F	1	26	21	31	0.075	0	0	0	0	1	1	fosturer inland	0-1 events	1-2	\$9,000	\$975,000	Road but no Road	Poad but no Road	Poad but no Road		1-2	1	1	-	
					ŀ	6	30 40	45 85	38	0.100	0	0	0	0	2	2	anclosed	event even	2-3 3-5	\$30,000 \$106,000	\$375,000 \$112,500	Sections	Cortions	Cortions	YES	>3	2	2	-	
					9,477	26	50	185	68	0.300	0	0	0	0	4	4			5-7	\$371,000	\$37,501						4	4	1	
						50 SCORE	70 SCORE	350 SCORE	100 SCORE	0.350 SCORE	1 SCORE	2 SCORE	1 SCORE	1 SCORE	5 SCORE	5 SCORE	SCORE	SCORE	7-10 SCORE	\$1,295,000 SCORE	\$37,500 SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	5 SCORE	5 SCORE	PRIORITY	PRIORITY
						SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	Annual	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	PRIORIT	PRIORITY
Deed Name		BeedlD	Grant	<b>F</b> 4	1	HCV 5 day AADT	HCV Speed	LDV 5 day AADT	Speed of LDVs (Est)	Houses within	Schools FNDC	Maraes FNDC	Churches FNDC	Health Centers	Ecological Areas	Horicul- tural areas	Location of	Frequency of rain	Longevity of HCV	Mntence Cost	Estimated Sealing	Tourism Route	Disaster Resilience	Network Resilience	Logging Route	Years of Logging /	Milk sheds FNDC	FNDC	FNDC Road Rating	Circular 16/04
Road Name	Location	Road ID	Start	End	Length	FNDC	FNDC	FNDC	FNDC	(300m	FINDE	FINDC	FNDC	FNDC	FNDC	FNDC	Roadway	days	route	Prev 3 year	Cost	FNDC	FNDC	FNDC	FNDC	HCV Est.	FINDC		FNDC	Rating
										from road)							FNDC	FNDC	FNDC	av./km FNDC	FNDC					FNDC		OVERALL FNDC		
Matauri Link Road		1974	465	1,094	629	2	3	2	3	0.80	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	12.80	955	1013
Fisher-Riley Road		1684	9,339	9,777	438	4	0	2	0	0.75	0	0	0	0	0	1	2	2	0	0	0	1	0	0	0	0	0	12.75	956	605
Fisher-Riley Road Newton Road		1684 2033	9,913 1,570	10,442 2,200	529 630	4	0	2	0	0.75 4.75	0	0	0	0	0	1	2	2	0	0	0	0	0	0	0	0	0	12.75 12.75	957 958	606 607
Pokere Road		3161	211		366	1	5	0	5	0.75	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	12.75	959	807
Tapuhi Road Dick Smith Loop Road		2384 3060	1,559	2,206 513	647 513	3	0	4	2	0.75 4.70	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12.75 12.70	960 961	1236 407
Fisher-Riley Road Te Ohu Road		1684 2423	9,036 329	9,336 707	300 378	4	0	2	0	0.70	0	0	0	0	0	1	2	2	0	0	0	1	0	0	0	0	0	12.70 12.70	962 963	408 409
Camp Road		1576	427	727	300	1	2	1	3	0.70	0	0	0	0	0	1	0	2	0	0	0	0	0	2	0	0	0	12.70	964	608
Oromanga Road Waimamaku Beach Road		2093 2498	0	197 2,100	197	2	0	3	2	0.70	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	12.70 12.70	965	609 610
Kohumaru Road		1862	17,483	17,907	424	1	0	2	2	0.70	0	0	0	0	0	0	1	1	2	0	0	0	0	0	2	1	0	12.70	967	808
Motukiore Road Pupuke Mangapa Road		2025	5,397 8,624	5,697	300	2	3	0	3	0.70	0	0	0	0	1	0	2	1	0	0	0	1 0	0	0	0	0	0	12.70 12.70	968	809 810
Waimahana Road		3143	0	225	225	1	2	2	3	0.70	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	12.70	970	811
Matawaia-Maromaku Road Matawaia-Maromaku Road		1977 1977	12,906 13,840	13,206 14,140	300 300	3	0	4	0	0.70	0	0	0	0	0	0	2	2	0	0	0	0	1 1	0	0	0	0	12.70 12.70	971 972	1014 1015
Ohuri Road		2057 2430	2,003	2,303	300 617	2	2	3	3	0.70	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	12.70	973	1016
Te Rore Road Subritzky Road		2430	1,014	1,631 321	321	2	2 4	2	3	0.70	0	0	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	12.70 12.65	974 975	1017 247
Coppermine Road Garton Road		1615 1703	618 142	· · · · ·	404	2	2	1 3	3	0.65	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	12.65 12.65	976 977	812 813
Horahora Road		1777	95	1,290	1,195	1	2	0	3	2.65	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	12.65	978	814
Otatara Marae Road Otaipango Road		2106	134	882		3	2	2	3	1.65	0	0	0	0	0	0	0	1 2	0	0	0	0	0	0	0	0	0	12.65 12.65	979 980	815
Bolero Road		1547	747	960	213	1	3	2	3	0.60	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	12.60	981	611
Oruaiti Road Lodore Road		2095 1904	619 3,982	919 5,720	300 1,738	2	2	3	3	0.60	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	12.60 12.60	982 983	612 1019
Matawaia-Maromaku Road		1977 2485	14,191	14,491	300 300	3	0	4	0	0.60	0	0	0	0	0	0	2	2	0	0	0	0	1	0	0	0	0	12.60	984	1020
Waikare Valley Road Monument Road		2485	1,551 3,646	1,851 4,008	362	1	0	3	2	0.60	0	0	0	0	0	0	2	0	3	0	0	0	0	1	2	2	0	12.60 12.60	985 986	1021 1237
Paponga Road Paponga Road		2129 2129	6,384 11,388	6,684 11,688	300	1	0	1	0	0.60	0	0	0	0	0	0	2	1	3	0	0	0	0	0	2	2	0	12.60 12.60	987 988	1238 1239
Puhata Road		2184	3,807	4,107	300	3	0	2	0	0.60	0	0	0	0	0	0	2	1	1	0	0	0	0	0	2	1	0	12.60	989	1240
Waiare Road Pawarenga Road		2484 2143	24,329 13,621	24,629	300 459	2	0	3	2	0.60	0	0	0	0	0	0	2	0	0	0	0	1	2	2	0	0	0	12.60 12.55	990 991	1603
Tapuhi Road		2384	7,531	8,093	562	3	1	3	2	0.55	0	0	0	0	0	0	1	0	0	0	0	0	0	2	0	0	0	12.55	992	1241
Te Tio Road Pakaru Road		2432 2123	2,016 9,984		533	2	3	2	3	0.50	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	12.50 12.50	993 994	816 1023
Paponga Road Ramsey Road		2129 2221	12,315	12,758 1,109	443	1	0	1	0	0.50	0	0	0	0	0	0	2	1	3 0	0	0	0	0	0	2	2	0	12.50 12.50	995 996	1024 1025
Wharepunga Road		2563	3,132	3,698	566	3 1	5	2	5	0.50	0	0	0	0	0	0	0	1 0	0	0	0	0	0	0	0	0	0	12.50	997	1026
Dick Urlich Road Oromahoe Road		1637 2092	1,212 14,394			3	0	3	2	0.45	0	0	0	0	1	1	0	2	0	0	0	0	0	0	0	0	0	12.45 12.45	998 999	248 410
Settlement Way		3191	0	517	517	2	0	1	2	1.40	0	3	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	12.40	1000	411
Bird Road Pine Hill Road		1540 2161	0 1,713	369		2	3	1	3	0.40	0	0	0	0	0	0	1 0	2	0	0	0	0	0	0	0	0	0	12.40 12.40	1001	817 1027
Smith Gray Road		3074	0	119	119	2	0	3	0	5.40	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	12.40	1003	613
Fryer Road Opara Road		1699 2083	252			3	0	3	2	1.35 0.35	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	12.35 12.35	1004	818 1028
Motuti Road		2022	1,079	1,440	361	3	1	3	2	0.35	0	0	0	0	0	0	0	1	0	0	0	2	0	0	0	0	0	12.35	1006	1242
Waimamaku Beach Road Fryer Road		2498 1699	566 3,345			2	3	2	3	0.35	0	0	0	0	1 0	0	0	1 2	0	0	0	0	0	0	0	0	0	12.35 12.30	1007	1243 614
Kauhanga Road		1835	0	150	150	1	5	0	5	0.30	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	12.30	1009	615
Peri Road Fern Flat Road		2155 1683			300	1 2	5	0	4	0.30	0	0	0	0	0	0	1 2	1	0	0	0	0	0	0	0	0	0	12.30 12.30	1010 1011	616 819
Lovatt Road Proctor Road		1910 2178	922 562		300	1	4	1	4	0.30	0	0	0	0	0	0	1 0	1	0	0	0	0	0	0	0	0	0	12.30 12.30	1012 1013	820 821
Te Ahu Road		2408	3,475	3,775	300	3	2	2	3	0.30	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	12.30	1014	822
Whangae Road Jordan Road		2554 1812	5,077	5,400 1,837	323 300	1	3	0	3	1.30 0.30	0	0	0	0	0	0	1	2	0	0	0	0	0	1	0	0	0	12.30 12.30	1015 1016	823 1029
Paponga Road		2129	11,749	12,049	300	1	0	1	0	0.30	0	0	0	0	0	0	2	1	3	0	0	0	0	0	2	2	0	12.30	1017	1244
Somerville Road		3091	4,435	4,701	266	1	3	1	3	0.30	0	0	0	0	0	0	1	1	0	0	0	0	0	2	0	0	0	12.30	1018	1245

			D	AMM DATA									17 of 29 Pr	inted on 19	/06/2021					overing PG	E and TIE (	Catororios	-1					A	PPEN	IDIX 2
_		_					1		1	Factor of	Factor of	Eactor of	Factor of	Eactor of		1	Factor of			overing re		categories	»,	1			1	1		
						ault	Default	Default	Default	Importan	Importan	Importan	Importan	Importan	Default	Default	Importan	Importan	Default	Default	Default	Default	Default	Default	Default	Default	Default	####		
										ce	ce	ce	ce	ce			ce	ce								-	_			
Range of Data		<u> </u>	· ·	· ·	14 - 2671	• Data 0 - 5	Data 0-5	Data 0-5	Data 0-5	200% 0 - 13	200% 0 - 10	100% 0 - 3	100% 0 - 5	100% 0 - 5	Data 0 - 4	Data 0-4	100% 0 - 2	100% 0 - 2	Data 0-5	0-0	0-0	Data 0-2	Data 0 - 2	Data 0-2	Data 0-2	Data 0 - 2	Data 0-3	1 - 31	1 - 1810	1 - 1031
Range of Data					14-20/1	0	25	20	30	0.025	0	0	0	0	0	0	open plains	More than 2	0	\$3,000	\$3,000,000	on this	NO RESILIENCE	No Resilience	No	0 2	0	0	1- 1010	1-1051
					Ľ	1	26	21	31	0.075	0	0	0	0	1	1	some land	0-1 events	1-2	\$9,000	\$975,000	Road but no	On Resilience	On Resilience		1-2	1	1	1	
					-	6	30	45	38	0.100	0	0	0	0	2	2	in land	Less than one	2-3	\$30,000	\$375,000	Road Sections	Road	Road	YES	>3	2	2	4	
					9,477	26	40	85	50 68	0.150	0	1	0	0	3	3			3-5	\$106,000 \$371,000	\$112,500 \$37,501						3	3	-	
					3,411	50	70	350	100	0.350	1	2	1	1	5	5			7-10	\$1,295,000	\$37,500						5	5	1	
						SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	PRIORITY	PRIORITY
						HCV 5 day	нсу	LDV 5 day	Speed of	Houses	Schools	Maraes	Churches	Health	Ecological	Horicul-	Location	Frequency	Longevity	Annual Mntence	Estimated	Tourism	Disaster	Network	Logging	Years of	Milk sheds	FNDC	FNDC Road	Circular
Road Name	Location	Road ID	Start	End	Length	AADT	Speed	AADT	LDVs (Est)	within	FNDC	FNDC	FNDC	Centers	Areas	tural areas	of	of rain	of HCV	Cost	Sealing	Route	Resilience	Resilience	Route	Logging /	FNDC		Rating	16/04
						FNDC	FNDC	FNDC	FNDC	(300m				FNDC	FNDC	FNDC	Roadway FNDC	days FNDC	route FNDC	Prev 3 year	Cost FNDC	FNDC	FNDC	FNDC	FNDC	HCV Est. FNDC		OVERALL	FNDC	Rating
										from road)							FNDC	FNDC	FNDC	av./km FNDC	FNDC					FNDC		FNDC		
Jacksons Road	OMAHUTA	3379	· · ·	· · ·		2	2	2	3	0.30	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	12.30	1019	1437
Puriri Block Road Taheke Road		2207			300	1 3	0	0	1	0.30	0	0	0	0	0	0	2	2	5	0	0	0	0	0	0	0	1 0	12.30 12.30	1020	1438 1439
Paiaka Road		233	· · ·	· · ·	160	2	0	2	0	0.30	0	0	0	0	0	0	0	1	5	0	0	0	0	1	0	0	1	12.30	1021	1721
Church Road	KAITAIA	1596			1,133	0	0	3	1	1.90	0	0	0	0	1	0	1	2	0	0	0	0	0	1	0	0	0	10.90	1023	1246
Lamb Road Wekaweka Road		1892		1,793	442	1	4	1	4	0.25	0	0	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0	12.25 12.25	1024	1030 1247
Wahamiti Lane		3039		309	309	1	4	0	4	1.20	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	12.20	1026	249
Taraire Road Paua Road		2387				2	2	1 3	3	2.20	0	0	0	0	1	0	0	2	0	0	0	0	0	0	0	0	0	12.20 12.20	1027	412 617
Akerama Road		1490	0 3,301	3,601	. 300	1	0	0	2	0.20	0	0	0	0	0	0	0	2	3	0	0	0	0	0	2	2	0	12.20	1029	824
Pawarenga Road Sandhills Road		2143		11,382	247	3	0	3	2	0.20	0	0	0	0	0	0	2	1 2	0	0	0	0	1 0	0	0	0	0	12.20 12.20	1030	825 826
Te Huahua Road		2413	3 647	· · · ·	490	2	3	2	3	1.20	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	12.20	1032	827
Old Valley Road Puhata Road		2071		565	565	1	0	3	1 0	6.20 0.20	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	12.20 12.20	1033 1034	1031 1248
Picadilly Road		215			300	3	0	4	2	0.20	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	12.20	1034	1440
Puhata Road		2184				3	0	2	0	0.20	0	0	0	0	0	0	2	1	1	0	0	0	0	0	2	1	0	12.20	1036	1604
Puketotara Road McManus Road		2196		7 5,787 920	300	3	1	3	2	0.20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1 0	12.20 12.15	1037 1038	1722 618
Sawyer Road		2295			300	1	0	2	2	0.15	0	0	0	0	1	4	1	1	0	0	0	0	0	0	0	0	0	12.15	1039	1032
Sawyer Road Waikare Road		2295			. <u>300</u> 300	3	0	2	2	0.15	0	0	0	0	2	4	1	1	0	0	0	0	2	0	0	0	0	12.15 12.15	1040 1041	1033 1249
Matawaia-Maromaku Road		1977		· · ·	300	3	0	4	0	0.15	0	0	0	0	0	0	2	2	0	0	0	0	1	0	0	0	0	12.15	1042	1441
Puketotara Road Waiare Road	+	2196	· · · ·	10,120 2 27,002	300	3	3	3	3	0.15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12.15 12.15	1043	1442
Waiare Road		2484		21,815	300	2	0	3	0	0.15	0	0	0	0	0	0	2	0	0	0	0	1	2	2	0	0	0	12.15	1045	1782
Braithwaite Road Koutu Loop Road	+	1554		1,092	390 714	2	2	2	3	2.10	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	12.10 12.10	1046	619 1034
Peria Road		2156	6 4,510	5,254	744	3	0	3	1	2.10	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	12.10	1048	1035
Rangi Point Road Te Rore Road		2223			1,019	3	2	2	1 3	2.10	0	3	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	12.10 12.10	1049	1036
Rata Tipene Road		2238	8 887	1,037	/ 150	1	0	1	2	0.10	0	0	0	0	0	0	1	1	5	0	0	0	0	0	0	0	1	12.10	1051	1723
Kauere Road Araroa Road		1834		380	380	1	4	0	4	1.05	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	12.05 12.05	1052	413 1037
Kaka Road		1823	3 827	1,530	703	3	0	2	2	1.05	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	12.05	1054	1038
Saward Road Toia Road		2294 2451		573 869		1 2	5	0	5	1.05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12.05 12.05	1055 1056	1039 1040
Koutu Loop Road		1879	9 5,764	6,472	708	2	0	3	1	2.05	0	0	0	0	0	0	2	1	0	0	0	1	0	0	0	0	0	12.05	1057	1250
Matawaia-Maromaku Road Pawarenga Road		1977 2143			300	2	0	3	2	0.05	0	0	0	0	0	0	2	2	0	0	0	0	1	0	0	0	0	12.05 12.05	1058 1059	1251 1252
Taita Road		2368	8 829	1,129	300	1	3	3	3	0.05	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	12.05	1060	1253
Grove Road Rangi Point Road		1721				1	3	1 2	4	0.05	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	12.05 12.05	1061 1062	1444 1445
Paponga Road		2223		<u> </u>		1	0	1	3 0	0.05	0	0	0	0	0	0	2	1 1	3	0	0	0	0	0	2	2	0	12.05	1062	1445
Puhata Road		2184				3	0	2	0	0.05	0	0	0	0	0	0	2	1	1	0	0	0	0	0	2	1	0	12.05	1064	1607
Lodore Road Matawaia-Maromaku Road		1904				1 3	4	0	4	2.00	0	0	0	0	0	0	0	1 2	0	0	0	0	0	0	0	0	0	12.00 12.00	1065	620 828
Kupuokai Road		3149	9 0	) 100	100	1	4	0	4	0.00	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	12.00	1067	1254
Mangatoa Road Retreat Road	+	3032		0 150 2 429		1	5	0	5	0.00	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	12.00 12.00	1068	1255
Ruapekapeka Road		2275	5 5,325	5,912	587	1	0	1	1	0.90	0	0	0	0	2	0	2	1	0	0	0	1	0	1	0	0	0	10.90	1070	1257
Signal Road Rosemay Lane	-	2313		1,150 255		3	3	3	3	0.00 0.95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12.00 11.95	1071 1072	1446 621
Pupuke Mangapa Road		2203	3 2,995	3,705	710	3	0	4	0	1.95	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	11.95	1073	1041
Waihapa Road Cable Bay Block Road		2486		) 369 7 4,202		1 2	3	2	3	0.95	0	0	0	0	0	0	1	1 2	0	0	0	0	0	0	0	0	0	11.95 11.90	1074 1075	1042 142
Dangen Road		15/3	<u>/</u>		459	3	0	2	0	0.90	0	0	0	0	2	0	2	2	0	0	0	0	0	0	0	0	0	11.90	1075	622
Mills Access Road		3239	9 0	430	430	1	3	1	3	2.90	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	11.90	1077	623
Waikoura Road Dangen Road	+	2494				1 3	3	2	3	1.90 0.90	0	0	0	0	0	0	0	1 2	0	0	0	0	0	0	0	0	0	11.90 11.90	1078	624 829
OLIVE VIEW HEIGHTS DRIVE		3301	1 442	1,190	748	2	1	2	2	2.90	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	11.90	1080	830
Quarry Road Ruapekapeka Road	AWANU	2210				2	0	3	2	0.90	0	0	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	11.90 5.05	1081 1082	831 1608
In apenapena nodu		22/3	7,000	1 0,133	300					0.05								- <u>-</u>				1				U		5.05	1.002	1000

RAMM DATA								CUDCIDICI										AF	PEN	IDIX 2
		_							ED DMF (C	overing PG	F and IIF (	categories	5)							
	Factor of Factor of		Factor of F		Default	Default	Factor of		Default	Default	Default	Default	Default	Default	Default	Default	Default	####		
d d d d d d d d d d d d d d d d d d d	ce ce	ce	Importan II ce	mportan ce	Delault	Default	Importan ce	Importan ce	Default	Default	Default	Delault	Default	Default	Default	Default	Default	****	2-01-00	
Data Data Data Data	200% 200%	100%	100%	100%	Data	Data	100%	100%	Data	0	0	Data	Data	Data	Data	Data	Data			
Range of Data         14 - 2671         0 - 5         0 - 5         0 - 5	0 - 13 0 - 10	0 - 3	0 - 5	0 - 5	0 - 4	0 - 4	0 - 2	0 - 2	0 - 5	0 - 0	0 - 0	0 - 2	0 - 2	0 - 2	0 - 2	0 - 2	0 - 3	1 - 31	1 - 1810	1 - 1031
0 25 20 30	0.025 0	0	0	0	0	0	open plains	More than 2 events per 0-1 events	0	\$3,000	\$3,000,000	on this	No Resilience	NO RESILIENCE	No	0	0	0		
	0.075 0	0	0	0	1	1	featurer	Less than one	1-2	\$9,000	\$975,000	Road but no Road	Road but no	Road		1-2	1	1		
6 30 45 38 11 40 85 50	0.150 0	1	0	0	2	2	onclosed	event evenr	2-3 3-5	\$30,000 \$106,000	\$375,000 \$112,500	Sections	Sections	Sections	YES	>3	2	2		
9,477 26 50 185 68	0.300 0	0	0	0	4	4	<u> </u>		5-7	\$371,000	\$37,501						4	4		
50 70 350 100	0.350 1	2	1	1	5	5			7-10	\$1,295,000	\$37,500						5	5		
SCORE	SCORE SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCO RE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	PRIORITY	PRIORITY
HCV 5 day HCV LDV 5 day Speed of H	Houses Schools	Maraes	Churches	Health	Ecological	Horicul-	Location	Frequency	Longevity	Annual Mntence	Estimated	Tourism	Disaster	Network	Logging	Years of	Milk sheds	FNDC	FNDC Road	Circular
Road Name Location Road ID Start End Length AADT Speed AADT LDVs (Est)	within FNDC	FNDC		Centers	Areas	tural areas	of	of rain	of HCV	Cost	Sealing	Route	Resilience	Resilience	Route	Logging /	FNDC		Rating	16/04
FNDC FNDC FNDC FNDC	(300m			FNDC	FNDC	FNDC	Roadway	days	route	Prev 3 year	Cost	FNDC	FNDC	FNDC	FNDC	HCV Est.		OVERALL	FNDC	Rating
	from road)						FNDC	FNDC	FNDC	av./km FNDC	FNDC					FNDC		OVERALL FNDC		
Maromaku-Towai Road 1953 4,109 4,574 465 0 3 3 3 3	0.90 0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	11.90	1083	1043
Peras Road 2153 694 1,066 372 1 2 2 3	0.90 0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	11.90	1084	1044
Peria Road         2156         3,264         4,495         1,231         3         0         3         0           Warner Road         2528         42         386         344         1         3         1         3	2.90 0 0.90 0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	11.90 11.90	1085 1086	1045
Deeming Road 1635 334 418 84 1 2 0 3	3.85 0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	11.85	1087	414
Fryer Road         1699         1,252         1,972         720         3         0         3         2           Mangamanihi Road         3119         0         1,033         1,033         1         2         0         3	0.85 0 3.85 0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	11.85	1088 1089	832 833
Mangamanihi Road         3119         0         1,033         1         2         0         3           Parapara-Toatoa Road         2133         3,760         4,830         1,070         0         1         1         2	2.85 0	0	0	0	0	0	2	1 1	0	0	0	0	0	2	0	0	0	11.85 11.85	1089	1447
Otaua Road 2107 0 386 386 4 0 3 0	0.80 0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0	0	11.80	1091	625
Mata Road         1966         1,090         1,550         460         3         0         3         2           Mihirata Road         2007         1,588         1,781         193         1         3         3	0.80 0	0	0	0	0	0	2	1 2	0	0	0	0	0	0	0	0	0	11.80 11.80	1092 1093	834 835
Wakelin Road         2520         200         1,709         3         0         3         1	3.80 0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	11.80	1095	1258
Carmens Road         1583         0         85         1         0         0         2           Takahue Saddle Road         BROADWOQ         2373         2,204         2,890         686         1         0         1         1	0.75 0 3.75 0	0	0	0	0	0	2	1	2	0	0	0	0	0	2	1	0	11.75 11.75	1095 1096	626 836
Te Ohu Road 2423 1,284 1,648 364 1 4 1 4	0.75 0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	11.75	1090	830
Horahora Road 1777 1,637 1,937 300 1 3 0 3	0.70 0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	11.70	1098	1047
Pawarenga Road         2143         10,720         10,988         268         3         0         4         2           Pukewhai Road         2197         1,234         2,019         785         1         3         2         3	0.70 0	0	0	0	0	0	0	2	0	0	0	0	1 0	0	0	0	0	11.70 11.70	1099 1100	1048 1049
Roger Road         3033         315         615         300         2         3         2         3	0.70 0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	11.70	1101	1050
Kohumaru Road         1862         3,939         4,239         300         0         0         3         0           Taumata Road         2394         2,144         2,444         300         1         0         1 <t< td=""><td>0.70 0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>2</td><td>1</td><td>2</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>2</td><td>1</td><td>0</td><td>11.70 11.70</td><td>1102 1103</td><td>1448 1449</td></t<>	0.70 0	0	0	0	0	0	2	1	2	0	0	0	0	0	2	1	0	11.70 11.70	1102 1103	1448 1449
White Road RANGIAHUA 2571 12 496 484 3 3 1 3	0.65 0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	11.65	1105	838
Smeath Road         HUPARA         2323         141         309         168         2         0         0         2           To Tio Pord         P	0.65 0	0	0	0	0	0	0	1	5	0	0	0	0	0	0	0	1	11.65	1105	1051
Te Tio Road         2432         2,552         2,960         408         2         3         2         3           Whangape Road         2555         6,701         7,443         742         2         0         3         1	0.65 0	0	0	0	0	0	2	1 2	0	0	0	0	0	0	0	0	0	11.65 11.65	1106 1107	1052
Paranui Road 2138 417 1,246 829 0 0 2 2	2.65 0	0	0	0	0	0	2	1	0	0	0	0	0	2	0	0	0	11.65	1108	1450
Packard Road         2118         0         252         252         1         4         0         4           Adams Road         AWARUA         1486         0         270         270         2         0         2         2	1.60 0 1.60 0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	11.60 11.60	1109 1110	250
Korimako Lane 1871 0 150 150 1 3 1 3	0.60 0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	11.60	1111	416
Tirohanga Road         2447         1,991         2,330         339         4         0         3         0           Matawaia-Maromaku Road         1977         8,667         8,967         300         3         0         3	0.60 0	0	0	0	0	0	0	2	0	0	0	2	0	0	0	0	0	11.60 11.60	1112 1113	627 1054
Mudgway Road 2027 603 947 344 1 1 0 2	0.60 0	0	0	0	0	0	0	1	5	0	0	0	0	0	0	0	1	11.60	1113	1451
Perio Valley Road 2157 7,740 8,147 407 0 0 1 0	0.60 0	0	0	0	0	0	2	1	1	0	0	0	2	1	2	1	0	11.60	1115	1452
Kowhitikaru Road         1878         1,999         2,401         402         1         3         2         3           Quinces Landing         3156         0         344         344         2         0         3         2         3	0.60 0 2.55 0	0	0	0	0	0	1 0	1 2	0	0	0	0	0	0	0	0	0	11.60 11.55	1116 1117	1609 417
Cemetery Road         TAKAHUE         1590         0         428         428         1         2         0         3	2.55 0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	11.55	1118	628
Puketiti Drive         3345         0         825         825         1         0         2         1           Rotokawau Road         2269         258         758         500         1         0         1         2         1	5.55 0 0.55 0	0	0	0	0	1 0	0	1 2	0	0	0	0	0	0	0	0	0	11.55 11.55	1119 1120	839 1055
Matarau Road 1970 0 59 59 1 4 0 4	0.50 0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	11.50	1121	143
Peria Valley Road         2157         10,143         10,463         320         0         0         1         0           Kingi Road         3241         316         530         214         1         3         1         3	0.50 0	0	0	0	0	0	2	1 2	1	0	0	0	2	1	2	1	0	11.50 11.45	1122 1123	1610 629
Lake Ohia Road 1893 1,041 1,389 348 1 3 1 3	0.45 0	0	0	0	1	0	0	2	0	0	0	0	0	0	0	0	0	11.45	1123	840
	0.45 0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	11.45	1125	841
Turk Valley Road         3302         0         491         1         3         1         3           Tapuhi Road         2384         685         1,194         509         3         0         4         1	1.45 0 0.45 0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	11.45 11.45	1126 1127	842 1453
Dangen Road 1624 4,690 5,059 369 2 0 2 2	1.40 0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	11.40	1128	843
Quarry Road         AWANUI         2210         5,781         6,081         300         3         0         3         2           Akerama Road         1490         2,736         3,210         474         1         0         0         1	0.40 0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	11.40 11.40	1129 1130	844 1056
	0.40 0	0	0	0	3	0	0	1	0	0	0	0	0	0	0	0	0	11.40	1130	1259
Pokapu Road 2169 7,944 8,791 847 3 0 3 1	0.40 0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	11.40	1132	1454
Marshall Road         1951         318         1,041         723         1         2         1         3           Manuwai Road         3163         0         319         319         1         3         0         3	2.40 0 3.35 0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	11.40 11.35	1133 1134	1057 630
Mata Road 1966 2,431 2,831 400 3 0 3 2	0.35 0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	11.35	1135	1058
	1.35 0 3.35 0	0	0	0	0	0	1 0	1	0	0	0	0	0	0	0	0	0	11.35 11.35	1136 1137	1059
	0.35 0	0	0	0	0	0	2	1	1	0	0	0	0	2	2	1	0	11.35	1137	1455 1724
Te Hapua Road 2411 8,415 8,715 300 4 0 4 0	0.30 0	0	0	0	1	0	0	2	0	0	0	0	0	0	0	0	0	11.30	1139	251
	2.80 0 0.30 0	0	0	0	1	0	1	2	0	0	0	0	0	1 0	0	0	0	18.80 11.30	1140 1141	418 845
Rodger Road 2264 55 355 300 1 5 0 4	0.30 0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	11.30	1141	846
Duddy Road         1652         6,998         7,148         150         1         0         1         2           Miletares Road         1992         1,841         2,141         200         2         0         3         2	0.30 0	0	0	0	0	0	2	1	1	0	0	0	0	0	2	1	0	11.30	1143	1060
McIntyres Road         1993         1,841         2,141         300         2         0         3         2           Tipa Tipa Road         2444         5,466         5,766         300         1         3         0         3	0.30 0	0	0	0	0	0	1 1	1	0	0	0	0	0	2	0	0	0	11.30 11.30	1144 1145	1260 1261
	0.30 0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	11.30	1146	1456

			F	AMM DATA									19 of 29 Pr	inted on 19	)/06/2021					overing PG	E and TIE (	Catagorias	1					A	PEN	IDIX 2
							-	-		5 1 (	<b>.</b>	<b>c</b> , (	<b>.</b>	<b>.</b>						overing PG		categories	»)	-	-					
						ault	Default	Default	Default	Factor of Importan	Factor of	Importan	Factor of Importan	Importan	Default	Default	Factor of Importan	Factor of Importan		Default	Default	Default	Default	Default	Default	Default	Default	####		
< >										ce	ce	ce	ce	ce			ce	ce												
						Data	Data	Data	Data	200%	200%	100%	100%	100%	Data	Data	100%	100%	Data	0	0	Data	Data	Data	Data	Data	Data			
Range of Data					14 - 2671	0-5	0 - 5 25	0 - 5 20	0 - 5 30	0 - 13 0.025	0 - 10 0	0-3	0-5	0-5	0-4	0-4	0 - 2 open plains	0 - 2 More than 2	0-5	0 - 0 \$3,000	0 - 0	0 - 2 on this	0 - 2 No resilience	0 - 2 No resilience	0 - 2 No	0-2	0-3	1 - 31 0	1 - 1810	1 - 1031
					F	1	25	20	30	0.075	0	0	0	0	1	1	or coastal some land	0-1 events	1-2	\$9,000	\$975,000	Road but no	On Resilience	On Resilience	140	1-2	1	1	1	
						6	30	45	38	0.100	0	0	0	0	2	2	in land	Less than one	2-3	\$30,000	\$375,000	Road Sections	Road	Road	YES	>3	2	2	]	
					-	11	40	85	50	0.150	0	1	0	0	3	3			3-5	\$106,000	\$112,500						3	3	-	
					9,477	26	50 70	185 350	68 100	0.300	0	2	0	0	4	4			5-7 7-10	\$371,000 \$1,295,000	\$37,501 \$37,500						4	4	{	
			1			SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	PRIORITY	PRIORITY
								IDV F day	6		Coharah		Churcher		Factor days					Annual	F-12-1-1	<b>T</b>	<b>D</b> <sup>1</sup>			¥	A dillion banda	END C	THE REAL	Circular 1
Road Name	Location	Road ID	Start	End	Length	HCV 5 day AADT	HCV Speed	LDV 5 day AADT	Speed of LDVs (Est)	Houses within	Schools FNDC	Maraes FNDC	Churches FNDC	Health Centers	Ecological Areas	Horicul- tural areas	Location of	Frequency of rain	Longevity of HCV	Mntence Cost	Estimated Sealing	Tourism Route	Disaster Resilience	Network Resilience	Logging Route	Years of Logging /	Milk sheds FNDC	FNDC	FNDC Road Rating	Circular 16/04
						FNDC	FNDC	FNDC	FNDC	(300m				FNDC	FNDC	FNDC	Roadway	days	route	Prev 3 year	Cost	FNDC	FNDC	FNDC	FNDC	HCV Est.			FNDC	Rating
										from road)							FNDC	FNDC	FNDC	av./km FNDC	FNDC					FNDC		OVERALL FNDC		
Peria Valley Road	_	215	7 6,30	2 6,602	300	0	0	1	0	0.30	0	0	0	0	0	0	2	1	1	0	0	0	2	1	2	1	0	11.30	1147	1611
Tautoro Road		240	2	0 352	352	2	0	2	2	4.25	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	11.25	1148	631
James Street Te Hapua Road	RUSSELL	180 241		-		4	2	2	3	1.25 0.25	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	11.25 11.25	1149 1150	847 848
Fern Flat Road		168	3 3,88	4 4,256	5 372	3	0	3	2	0.25	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	11.25	1151	1457
Puketi Road Te Hapua Road		219 241		-		1 4	5	1 4	5	0.80	0	0	0	0	2	0	0	0	5	0	0	2	0	2	0	0	1 0	24.80 11.20	1152 1153	632 252
Topps Access Road		316	7	0 397	7 397	1	3	1	3	2.20	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	11.20	1154	633
Haile Road Mill Road	KAINGAROA	172		_		1	3	0	3	0.20	0	3	0	0	0	0	0	1 2	0	0	0	0	0	0	0	0	0	11.20 11.20	1155 1156	849 1061
Puha Road	KAINGAROA	200		0 159		3	0	2	2	0.20	0	0	0	0	0	0	1	1	0	0	0	0	0	2	0	0	0	11.20	1150	1061
Stanners Road		234 330	· · · ·	· · ·		3	0	2	2	1.20 0.20	0	0	0	0	0	0	0	1 2	0	0	0	0	0	2	0	0	0	11.20 11.20	1158	1063 1064
Turk Valley Road Waikare Valley Road		248		-		3	0	1 3	1	1.20	0	0	0	0	0	0	0	1	0	0	0	2	0	0	0	0	0	11.20	1159 1160	1064
Wells Road		253		0 785		1	1	2	2	2.20	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	11.20	1161	1066
Henderson Bay Road Pekerau Road		175				2	0	3	2	0.20	0	0	0	0	0	0	0	2	0	0	0	2	0	0	0	0	0	11.20 11.20	1162 1163	1262
Waikare Valley Road		248		4 4,410	396	3	0	3	2	0.20	0	0	0	0	0	0	0	1	0	0	0	2	0	0	0	0	0	11.20	1164	1459
Humphrey Road Waiare Road		177			240	1 3	0	0	2	0.20	0	0	0	0	0	0	2	1	2	0	0	0	0	0	2	1	0	11.20 11.20	1165 1166	1612 1613
Peria Valley Road		215	7 8,24	7 8,547	7 300	0	0	1	0	0.20	0	0	0	0	0	0	2	1	1	0	0	0	2	1	2	1	0	11.20	1167	1783
Waiare Road Perry Road		248		8 13,848 0 667	300 667	3	0	2	0	0.20	0	0	0	0	0	0	0	0	0	0	0	2	2	2	0	0	0	11.20 11.15	1168 1169	1784 850
Pine Hill Road		216	<u>´</u>	· · ·		2	0	1	2	1.15	0	0	0	0	0	0	0	1	1	0	0	0	0	0	2	1	0	11.15	1170	851
Motukiore Road Haumanga Road		202		· · ·		1	2	0	3	1.15 0.15	0	0	0	0	0	0	2	1	0	0	0	1	0	0	0	0	0	11.15 11.15	1171 1172	1263
Waiare Road		248	4 13,13	3 13,433	300	3	0	2	0	0.15	0	0	0	0	0	0	0	0	0	0	0	2	2	2	0	0	0	11.15	1173	1785
Mamari Road Hooks and Halls Road		192 178		0 231 8 745	231	2	3	1	3	2.10	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	11.10 11.10	1174 1175	634 852
Oinu Road		205	8 7	1 902	831	1	2	0	3	2.10	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	11.10	1176	853
Pekerau Road Wairakau Road		214		2 4,722 0 200		2	0	3	1 2	2.05	0	0	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	11.10 11.05	1177 1178	1264 253
Airstrip Road		174	6 94	6 1,626	680	1	3	0	3	1.05	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	11.05	1179	1265
Settlement Road Salt Road	_	230	· · ·		300	2	3	1 0	3	0.05	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	11.05 11.05	1180 1181	1266 1460
Sawyer Road		229	5 5,47	0 5,770	300	1	0	2	2	0.05	0	0	0	0	0	4	1	1	0	0	0	0	0	0	0	0	0	11.05	1182	1461
Tipa Tipa Road Nova Street		244 205				2	3	0	3	0.05	0	0	0	0	0	0	1 0	1	0	0	0	0	0	0	2	0	0	11.05 11.00	1183 1184	1615 635
Gills Road	AWANU	170	5 5,60	6 6,514	908	1	0	2	2	1.00	0	0	0	0	1	1	0	2	0	0	0	0	0	1	0	0	0	11.00	1185	854
Kurapari Road Matawherohia Road		338 197		0 560		2	2	1 3	3	1.00	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	11.00 11.00	1186 1187	855
Whangae Road		255	4 4,30	4 5,073	8 769	1	2	0	3	1.00	0	0	0	0	0	0	1	2	0	0	0	0	0	1	0	0	0	11.00	1188	1068
Pekerau Road Lake Ngatu Road	_	214		1 208 0 100		2	0	3	2	0.00	0	0	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	11.00 11.00	1189 1190	1267 1462
Maromaku-Towai Road		195	3 6,31	3 6,426	5 113	3	0	4	2	0.00	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	11.00	1191	1463
Martin Road Mansbridge Road	POKERE	195 194				3	0	3	0	0.00	0	0	0	0	0	0	1	2	0	0	0	0	0	2	0	0	0	11.00 10.95	1192 1193	1464 1069
Martin Road	POKERE	195	8	0 858	858	1	2	0	3	1.95	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	10.95	1194	1070
Green Lane Extension Stoney Creek Road	_	312 234		0 104		1	2	1	3	1.90 0.90	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	10.90 10.90	1195 1196	419 856
Kohe Road		186	4 3,08	2 3,569	487	2	0	0	1	0.90	0	0	0	0	0	0	2	1	1	0	0	0	0	0	2	1	0	10.90	1197	1071
Opahi Station Road Powells Road	DIGGERS VA	208				1	1 2	3	2	0.90	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	10.90 10.90	1198 1199	1072 1073
Church Road	KAITAIA	159	6 12,41	8 12,718	300	4	3	4	3	0.70	0	0	0	0	0	0	1	2	0	0	0	0	0	1	0	0	0	18.70	1199	254
Ruapekapeka Road		227			388	1	0	0	0	0.10	0	0	0	0	0	0	0	1	0	0	0	1	0	1	0	0	0	4.10	1201	1786
Old Hospital Road Rangi Point Road		207	_			1 3	0	2	2	3.85 3.85	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	10.85 10.85	1202 1203	420
Whangape Road		255 186	5 1,31	8 1,648	330	3	0	3	0	0.80	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	10.80	1204	857
Kohumaru Road Tapuhi Road		238		<u>´</u>		3	0	0	0	1.80 0.80	0	0	0	0	0	0	2	1 0	2	0	0	0	0	0	2	1	0	10.80 10.80	1205 1206	1268 1269
Kohumaru Road		186	2 14,92	8 15,759	831	1	0	2	0	0.80	0	0	0	0	0	0	1	1	2	0	0	0	0	0	2	1	0	10.80	1207	1465
Omahuta Road Ngawhitu Road		207				1	4	1 0	2 4	0.75	0	0	0	0	1 0	0	1 0	1	0	0	0	2	0	0	0	0	0	10.75 10.70	1208 1209	1270 858
Kupa Road		188				1	3	1	3	0.70	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	10.70	1210	1075

												:	20 of 29 Pr	inted on 19	/06/2021		5115 6 111					- · ·						A	PEN	DIX 2
			R/	MM DATA																Covering PG	F and TIF	Categorie	s)							
							Defeut	Defeult	Defeut	Factor of	Factor of			Factor of	Defeult	Defeut	Factor of			Default	Default	Default	Default	Default	Defeult	Defeut	Default			
۲.			<b>Z</b>	₹,	- ح <b>ا</b> ب	ault	Default	Default	Default	Importan ce	Importan ce	Importan ce	Importan ce	Importan ce	Default	Default	Importan ce	Importan ce	Default	Default	Default	Default	Default	Default	Default	Default	Default	****	20101120	
		$\sim$	$\sim$	$\checkmark$	$\sim$	Data	Data	Data	Data	200%	200%	100%	100%	100%	Data	Data	100%	100%	Data	0	0	Data	Data	Data	Data	Data	Data			
Range of Data					14 - 2671	0 - 5	0 - 5	0 - 5	0 - 5	0 - 13	0 - 10	0 - 3	0 - 5	0 - 5	0 - 4	0 - 4	0 - 2	0 - 2	0 - 5	0 - 0	0 - 0	0 - 2	0 - 2	0 - 2	0 - 2	0 - 2	0 - 3	1 - 31	1 - 1810	1 - 1031
					ŀ	0	25	20	30	0.025	0	0	0	0	0	0	open plains or coastal some land	Wore than 2 events per 0-1 events	0	\$3,000	\$3,000,000		No Resilience	Poad On Resilience	No	0	0	0	-	
					ŀ	6	26 30	21 45	31 38	0.075	0	0	0	0	1	2	fosturer in land	Less than one	1-2 2-3	\$9,000 \$30,000	\$975,000 \$375,000	Road but no Road	Road but no	Road	YES	1-2 >3	1 2	1 2	-	
					ŀ	11	40	85	50	0.150	0	1	0	0	3	3	onclosed	ovent even	3-5	\$106,000	\$112,500	Sections	Sections	Sections	1.5		3	3	1	
					9,477	26	50	185	68	0.300	0	0	0	0	4	4			5-7	\$371,000	\$37,501						4	4	1	
						50	70	350	100	0.350	1	2	1	1	5	5			7-10	\$1,295,000	\$37,500						5	5		
						SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCO RE Annual	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	PRIORITY	PRIORITY
						HCV 5 day	нсv	LDV 5 day	Speed of	Houses	Schools	Maraes	Churches	Health	Ecological	Horicul-	Location	Frequency	Longevity	Mntence	Estimated	Tourism	Disaster	Network	Logging	Years of	Milk sheds	FNDC	FNDC Road	Circular
Road Name	Location	Road ID	Start	End	Length	AADT FNDC	Speed FNDC	AADT FNDC	LDVs (Est) FNDC	within (300m	FNDC	FNDC	FNDC	Centers FNDC	Areas FNDC	tural areas FNDC	of	of rain	of HCV	Cost	Sealing	Route FNDC	Resilience FNDC	Resilience FNDC	Route FNDC	Logging / HCV Est.	FNDC		Rating FNDC	16/04 Detine
						FNDC	FNDC	FNDC	FNDC	from				FINDC	FNDC	FNDC	Roadway FNDC	days FNDC	FNDC	Prev 3 year av./km	Cost FNDC	FNDC	FNDC	FNDC	FINDC	FNDC		OVERALL	FNDC	Rating
										road)										FNDC								FNDC		
Mansbridge Road		1940	0	233		1	3	1	3	0.70	0	0	0	0	0	0	1 2	1	0	0	0	0	0	0	0	0	0	10.70	1211	1076
Owae Road Te Karoa Road		2114 2418	1,963	206		3	0	3	0	0.70	0	0	0	0	1	0	2	1	0	0	0	0	0	0	0	0	0	10.70 10.70	1212 1213	1077 1078
Whangae Road		2554	3,815	4,115	300	1	2	0	3	0.70	0	0	0	0	0	0	1	2	0	0	0	0	0	1	0	0	0	10.70	1214	1079
Wharekawa Road Mansbridge Road		2561 1940	357	1,308 1,203	951	1	3	0	3	1.70 0.70	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	10.70 10.70	1215	1080 1271
Perry Road		2158	2,040	2,190	150	2	0	1	0	0.70	0	0	0	0	0	0	0	1	5	0	0	0	0	0	0	0	1	10.70	1217	1272
Omanaia Road Motuti Road		2075	1,443	1,965 4,236	522	1	1 0	2	2	0.70	0	0	0	0	0	0	1	1	0	0	0	0	0	2	0	0	0	10.70 10.65	1218 1219	1466 636
Okokako Road		2065	0	491	491	2	1	2	2	2.65	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	10.65	1220	859
Puketawa Road Gills Road	AWANU	2192 1705	336 5,234	750 5,534	414 300	1	3	0	4	0.65	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	10.65 10.60	1221 1222	1273 421
Gills Road	AWANU	1705	6,611	6,911	300	1	0	2	2	0.60	0	0	0	0	1	1	0	2	0	0	0	0	0	1	0	0	0	10.60	1222	421
Hawkins Road	коникони	1747	939	1,271	332	1	4	0	4	0.60	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	10.60	1224	637
Waoku Road Dangen Road		2525	· · ·	3,234	216	3	0	2	0	0.60	0	0	0	0	1 0	0	0	0	0	0	0	0	0	0	2	1	0	10.60 10.60	1225 1226	638 860
Kimberley Road		1855	<u> </u>	4,592		3	0	2	0	0.60	0	0	0	0	0	1	0	2	0	0	0	0	0	2	0	0	0	10.60	1227	861
Tawata Road Fern Flat Road		3182	9,458	279	279	2	4	0	4	0.60	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	10.60 10.60	1228	862 1081
Range Road		2224	2,730	3,034	304	1	3	2	3	0.60	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	10.60	1230	1082
Duddy Road Koutu Loop Road		1652 1879	5,503	5,967 6,896	464 300	1	0	1 3	0	1.60 0.60	0	0	0	0	0	0	2	1	1	0	0	0	0	0	2	1	0	10.60 10.60	1231 1232	1274 1467
MacDonnell Road		1915	126	714	588	1	0	1	0	1.60	0	0	0	0	0	0	0	1	5	0	0	0	0	0	0	0	1	10.60	1232	1468
Oparihi Road Werner Road		3141 2541	0	164 519	164	1	2	1	3	1.55	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	10.55 10.55	1234 1235	423 863
Conoglen Road		3159	2	385		1	3	1	3	0.55	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	10.55	1235	1083
Jacentho Road Cabbage Tree Bay Road		1799 1572	<u> </u>	1,639 751		1	0	1	2	1.55 5.50	0	0	0	0	0	0	0	1	1 0	0	0	0	0	0	2	1	0	10.55 10.50	1237 1238	1275 864
Pekerau Road		2148		8,289	592	2	0	1	2	1.50	0	0	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	10.50	1238	865
Jackson Road		1804	392	1,022	630	3	0	2	2	1.50	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	10.50	1240	1084
Wekaweka Road Gillies Road		2535 3134	7,803	8,635	832	1 3	2	3	3	1.50 2.45	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	10.50 10.45	1241 1242	1276 639
Oruaiti Road		2095	71	385	314	2	1	3	2	0.45	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	10.45	1243	866
Fryer Road Duddy Road		1699	2,035	2,580	545	3	0	3	1	0.45	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	10.45 10.45	1244 1245	1085 1469
Kauaepepe Road		1833				4	0	2	0	1.40	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	10.40	1246	867
Kaikatia Road Pupuke Mangapa Road		1819 2203			342	2	3	1 3	3	0.40	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	10.40 10.40	1247 1248	1086 1087
Paranui-Toatoa Road		3132	148	645	497	1	0	2	2	0.40	0	0	0	0	0	0	2	1	0	0	0	0	0	2	0	0	0	10.40	1249	1470
Wharekawa Road McGee Road		2561 1992	2,429	2,955		2	0	0	1 2	0.40	0	0	0	0	0	0	1	1	5	0	0	0	0	0	0	0	1 0	10.40 10.35	1250 1251	1616 1088
Kohumaru Road		1862	9,787	10,087	300	1	0	0	1	0.35	0	0	0	0	0	0	2	1	2	0	0	0	0	0	2	1	0	10.35	1252	1471
May Road Tapeka Road		1986 2382	6	156 1,325		1	2	2	3	0.35	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	10.35 10.30	1253 1254	1472 424
Hapanga Road		1733	242	542	300	1	3	1	3	0.30	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	10.30	1255	868
Ngahuhu Road		3162 2092		248 12,640		2	3	1	3	0.30	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	10.30 10.30	1256 1257	869
Oromahoe Road Akerama Road		1490				1	0	0	0	0.30	0	0	0	0	0	0	0	2	3	0	0	0	0	0	2	2	0	10.30	1257	870 1089
Gammons Road		1701		4,761	300	1	0	2	2	0.30	0	0	0	0	0	2	2	1	0	0	0	0	0	0	0	0	0	10.30	1259	1090
Grove Road Gumfields Road		1721		254 1,554		1 2	2	1	3	0.30	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	10.30 10.30	1260 1261	1091 1092
Ranui Road		2234	525	825	300	1	3	1	3	0.30	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	10.30	1262	1093
Whangae Road Humphrey Road		2554 1776		519 723		2	0	2	0	1.30 0.30	0	0	0	0	0	0	1 2	2	0	0	0	0	0	2	0	0	0	10.30 10.30	1263 1264	1094 1277
Mangakaretu Road		1776			300	2	0	3	2	0.30	0	0	0	0	0	0	0	1	0	0	0	2	0	0	0	0	0	10.30	1264	1277
Marlow Road		1948	,		568	0	0	3	2	1.30	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	10.30	1266	1279
Range Road Wallace Road	VIC VALLEY	2224 2602		2,333 745		1	3	2	3	0.30	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	10.30 10.30	1267 1268	1280 1281
Whangape Road		2555	7,453	7,753	300	2	0	3	1	0.30	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	10.30	1269	1282
Whangape Road Ngahuhu Road		2555				2	0	3	1 3	0.30	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	10.30 10.30	1270 1271	1283 1473
Tapuhi Road		2384	8,200	8,500	300	3	0	3	1	0.30	0	0	0	0	0	0	1	0	0	0	0	0	0	2	0	0	0	10.30	1272	1474
Tipene Road Waimatenui / Mataraua Road		2445		4,777 19,012	572	3	1 0	1	2	0.30	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	10.30 10.30	1273 1274	1617 1618
	_	2000	10,/12	19,012	300	<u> </u>	U U	U U		0.50	U U	U U		U U		U	L 1	U U	1 I	U		U U	4	1 1	4	1	U U	10.50	12/4	1010

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			D	AMM DATA									21 of 29 Pr	rinted on 19	9/06/2021					overing DC	C and TIC	Catagoria	2)					A	PPEN	IDIX 2
			к <i>і</i>								1	I		1					ED DIWIF (C	overing PG		categories	5)					1		
						ault	Default	Default	Default	Factor of	Factor of	Factor of Importan	Factor of Importan	Factor of Importan	Default	Default	Factor of Importan	Factor of Importan	Default	Default	Default	Default	Default	Default	Default	Default	Default	####		
۲ 🕨		<b>T</b>		<b>&lt;</b>	. र <b>म</b> ्		Denut	Delutit	Denual	ce	ce	ce	ce	ce	Delutin	Deluun	ce	ce	Delutit	Delutit	Delutit	Deluun	Denut	Delutin	Delutit	Delutin	Deruurt			
		$\sim$				Data	Data	Data	Data	200%	200%	100%	100%	100%	Data	Data	100%	100%	Data	0	0	Data	Data	Data	Data	Data	Data			
Range of Data					14 - 2671	0 - 5	0 - 5	0 - 5	0 - 5	0 - 13	0 - 10	0 - 3	0 - 5	0 - 5	0 - 4	0 - 4	0 - 2 open plains	0 - 2 More than 2	0 - 5	0 - 0	0 - 0	0 - 2	0 - 2 No Resilience	0 - 2	0 - 2	0 - 2	0 - 3	1 - 31	1 - 1810	1 - 1031
					ŀ	0	25	20	30	0.025	0	0	0	0	0	0	or coastal some land	0-1 events	0	\$3,000	\$3,000,000	on this	Doad On Resilience	Doad On Resilience	No	0	0	0	-	
					ŀ	6	26 30	21 45	31 38	0.075	0	0	0	0	1 2	2	fosturer in land	Less than one	1-2 2-3	\$9,000 \$30,000	\$975,000 \$375,000	Road but no Road	Road but no	Road	YES	1-2 >3	1	1	-	
					ŀ	11	40	85	50	0.150	0	1	0	0	3	3	onclosed	event even	3-5	\$106,000	\$112,500	Sections	Cortions	Sections			3	3	1	
					9,477	26	50	185	68	0.300	0	0	0	0	4	4			5-7	\$371,000	\$37,501						4	4	1	
						50	70	350	100	0.350	1	2	1	1	5	5			7-10	\$1,295,000	\$37,500						5	5		
						SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCO RE Annual	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	PRIORITY	PRIORITY
						HCV 5 day	нсу	LDV 5 day	Speed of	Houses	Schools	Maraes	Churches	Health	Ecological	Horicul-	Location	Frequency	Longevity	Mntence	Estimated	Tourism	Disaster	Network	Logging	Years of	Milk sheds	FNDC	FNDC Road	Circular
Road Name	Location	Road ID	Start	End	Length	AADT	Speed	AADT	LDVs (Est)	within	FNDC	FNDC	FNDC	Centers	Areas	tural areas	of	of rain	of HCV	Cost	Sealing	Route	Resilience	Resilience	Route	Logging /	FNDC		Rating	16/04
						FNDC	FNDC	FNDC	FNDC	(300m from				FNDC	FNDC	FNDC	Roadway FNDC	days FNDC	route FNDC	Prev 3 year av./km	Cost FNDC	FNDC	FNDC	FNDC	FNDC	HCV Est. FNDC		OVERALL	FNDC	Rating
										road)									1100	FNDC	mbe					mbe		FNDC		
Hobbs Road		1770	0	408	3 408	3	0	1	2	1.25	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	10.25	1275	640
McIntyres Road		1993	7,472	<u> </u>		1	0	2	2	0.25	0	0	0	0	1	0	1	1	0	0	0	0	0	2	0	0	0	10.25	1276	1619
Koranae Road Remuera Settlement Road		1870 2251		363 4,169		2	0	2	2	2.20	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	10.20 10.20	1277 1278	425 641
Teachers Road	BROADWOO	3221	. 0	259	259	2	0	2	2	3.20	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	10.20	1279	642
Warau Street Station Road	KAWAKAWA	2603 2342	104	68	68	1	0	0	2	5.20 2.20	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	10.20 10.20	1280 1281	643 871
Waione Road		2508	105	405	300	2	0	4	0	0.20	0	0	0	0	1	0	0	1	0	0	0	2	0	0	0	0	0	10.20	1282	872
Kupa Road Poko Pohaia Road	_	1881 2171	214			1	2	1	3	1.20 0.20	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	10.20 10.20	1283 1284	1095 1096
Shirley Road		2310	90			1	3	1	3	1.20	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	10.20	1285	1090
Tapuhi Road		2384	4,852	5,152		3	0	3	0	0.20	0	0	0	0	1	0	1	0	0	0	0	0	0	2	0	0	0	10.20	1286	1098
Whangape Road Tapuhi Road		2555	3,599	· · ·		3	0	3	0	0.20	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	10.20 10.20	1287 1288	1099 1284
Gumfields Road		1724				2	0	3	2	0.20	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	10.20	1289	1475
Kohumaru Road Te Irenga Road	_	1862	9,268	9,568		1	0	0	2	0.20	0	0	0	0	0	0	2	1	2	0	0	0	0	0	2	0	0	10.20 10.20	1290 1291	1476 1477
Paranui-Toatoa Road		3132	3,841		300	1	0	2	0	0.20	0	0	0	0	2	0	2	1	0	0	0	0	0	2	0	0	0	10.20	1292	1620
Otaere Road		2099	582	156		1	4	0	4	0.15	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	10.15 10.15	1293 1294	1285 1286
Whangae Road Ayrtons Access Road		1514	15			2	3	2	3	0.15	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	10.15	1294	1200
Humphrey Road		1776	2,023			2	0	0	0	0.15	0	0	0	0	0	0	2	1	2	0	0	0	0	0	2	1	0	10.15	1296	1622
Waikaramu Road Haumanga Road		2488	2,823	<u> </u>		2	0	2	2	0.15	0	0	0	0	0	0	1 2	1	0	0	0	0	0	2	0	0	0	10.15 10.15	1297 1298	1623
Snelgar Road		2329	, · · ·	4,106	i 900	3	0	3	0	1.10	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	10.10	1299	1100
Diamond Road Mata Road		3217	2,950	175		1 3	4	0	4	0.10	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	10.10 10.10	1300 1301	1287 1624
Hawkins Road	коникони	1747	1,757	1,907	7 150	1	0	0	2	0.10	0	0	0	0	0	0	0	1	5	0	0	0	0	0	0	0	1	10.10	1302	1726
Tapuhi Road Arkles Way		2384	6,697	7,057	7 360	3	0	3	1 2	0.10 3.05	0	0	0	0	0	0	1	0	0	0	0	0	0	2	0	0	0	10.10 10.05	1303 1304	1727 644
Hewitts Road		1755	0	96		1	2	0	3	0.05	0	0	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0	10.05	1305	1101
Pekerau Road		2148	3,258	3,558		2	0	2	2	0.05	0	0	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	10.05 10.05	1306 1307	1478 1479
Whangape Road Maromaku-Towai Road		1953	5,761	6,061		0	2	3	3	0.05	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	10.05	1308	1625
Matawera Road		1978	1,770	· · ·	300	1	3	1	3	0.05	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	10.05	1309	1626
Pukawa Road Kohumaru Road	WHIRINAKI	3213	14,410	203	200	1	0	2	3	0.05	0	0	0	0	0	0	1	1	2	0	0	0	0	0	0	0	0	10.05 10.05	1310 1311	1627
Koutu Beach Road		1876		150		1	3	1	3	1.00	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	10.00	1312	645
Pekerau Road Waiaua Road		2148	8,322			2	0	1 3	2	1.00	0	0	0	0	0	0	0	2	0	0	0	0	0	2	0	0	0	10.00 10.00	1313 1314	873 874
Whangape Road		2555	8,646	8,958	312	2	0	3	0	1.00	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	10.00	1315	1102
Bledisloe Road Guest Road		3073 1723	0	150		2	0	3	2	0.00	0	0	0	0	1 0	0	1 0	1	0	0	0	0	0	0	0	0	0	10.00 10.00	1316 1317	1288 1289
Saleyard Avenue		2287	293	424	131	3	0	3	2	0.00	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	10.00	1317	1285
Te Watea Marae Road		3099				1	4	0	4	0.00	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	10.00	1319	1291
Callaghans Road Gerrard Road	_	1574 3196				3	0	3	2	0.00	0	0	0	0	0	0	1 2	1 2	0	0	0	0	0	0	0	0	0	10.00 10.00	1320 1321	1480 1481
Old Whangae Road		2072	104	150	) 46	1	2	2	3	0.00	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	10.00	1322	1482
Rangikohu Road Mangapupu Road	EPIKAURI R	2229	1,309			1	0	0	2	0.95	0	0	0	0	0	0	0	1	2	0	0	0	0	0	2	1	0	9.95 9.95	1323 1324	1103 1292
Ramsey Road		2221		2,176	5 820	3	1	2	2	0.95	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	9.95	1324	1292
Fern Flat Road		1683	7,179			2	0	3	0	0.90	0	0	0	0	1	0	2	1	0	0	0	0	0	0	0	0	0	9.90	1326	1104
Kauaepepe Road Rakautapu Road		1833 2218				4	0	2	0	0.90 3.90	0	0	0	0	0	0	2	1 1	0	0	0	0	0	0	0	0	0	9.90 9.90	1327 1328	1105 1106
Victoria Valley Road		2478	1,552	1,867	7 315	2	1	3	2	0.90	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	9.90	1329	1107
Hui Road Dodds Road		1774				1	2	1 0	2	0.90	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	9.90 9.85	1330 1331	1294 875
McDonald Road	DIGGERS VA	1989	636	890	254	1	3	1	3	0.85	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	9.85	1332	1295
Mata Road Pakanae Cemetery Road		1966 2122	<u> </u>	· · · ·		3	0	3	0	0.80	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	9.80 9.75	1333 1334	1108 646
Ngataki Road		2122				2	0	3	2	1.75	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	9.75	1334	1109
Churtons Road		1601	567	924	357	1	1	1	2	0.75	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	9.75	1336	1296
Moehau Road Okakewai Road	_	2017 2063		270		3	3	0	3	0.75	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	9.75 9.75	1337 1338	1297 1298
											-		-																	

						_							22 of 29 Pr	inted on 19	0/06/2021					in DC		C - 4	-1					A	PPEN	IDIX 2
			R	AMM DATA															ED DMF (C	overing PG	F and IIF	Lategories	5)							
						ault	Default	Default	Default	Factor of	Factor of	Factor of Importan	Factor of Importan		Default	Default	Factor of		Default	Default	Default	Default	Default	Default	Default	Default	Default	####		
۲,		<b>d</b>	· < 🕩	<b>d</b>	. र <b>म</b> -		Delaute	Delutit	Delaute	ce	ce	ce	ce	Importan ce	Delaute	Delaute	Importan ce	Importan ce	Deluare	Delaute	Default	Delaute	Delaute	Delaun	Deluait	Delaun	Deruure	****		
		$\sim$	$\sim$		$\sim$	Data	Data	Data	Data	200%	200%	100%	100%	100%	Data	Data	100%	100%	Data	0	0	Data	Data	Data	Data	Data	Data	1		
Range of Data					14 - 2671	0 - 5	0 - 5	0 - 5	0 - 5	0 - 13	0 - 10	0 - 3	0 - 5	0 - 5	0 - 4	0 - 4	0 - 2	0 - 2	0 - 5	0 - 0	0 - 0	0 - 2	0 - 2	0 - 2	0 - 2	0 - 2	0 - 3	1 - 31	1 - 1810	1 - 1031
					ļ	0	25	20	30	0.025	0	0	0	0	0	0	open plains	More than 2 events per 0-1 events	0	\$3,000	\$3,000,000	on this	No Resilience	NO RESILIENCE	No	0	0	0	-	
					ŀ	1	26	21	31	0.075	0	0	0	0	1	1	featurer	Less than one	1-2	\$9,000	\$975,000	Road but no Road	Poad but no Road	Road		1-2	1	1	-	
					ŀ	6	30 40	45 85	38	0.100	0	0	0	0	2	2	onclosed	event even	2-3	\$30,000 \$106,000	\$375,000 \$112,500	Sections	Cortions	Cortions	YES	>3	2	2	-	
					9,477	26	50	185	68	0.300	0	0	0	0	4	4			5-7	\$371,000	\$37,501						4	4	1	
					-,	50	70	350	100	0.350	1	2	1	1	5	5			7-10	\$1,295,000	\$37,500						5	5		
						SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCO RE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	PRIORITY	PRIORITY
						HCV 5 day	нсу	LDV 5 day	Speed of	Houses	Schools	Maraes	Churches	Health	Ecological	Horicul-	Location	Frequency	Longevity	Annual Mntence	Estimated	Tourism	Disaster	Network	Logging	Years of	Milk sheds	FNDC	FNDC Road	Circular
Road Name	Location	Road ID	Start	End	Length	AADT	Speed	AADT	LDVs (Est)	within	FNDC	FNDC	FNDC	Centers	Areas	tural areas	of	of rain	of HCV	Cost	Sealing	Route	Resilience	Resilience	Route	Logging /	FNDC	mbe	Rating	16/04
					ľ	FNDC	FNDC	FNDC	FNDC	(300m				FNDC	FNDC	FNDC	Roadway	days	route	Prev 3 year	Cost	FNDC	FNDC	FNDC	FNDC	HCV Est.			FNDC	Rating
										from road)							FNDC	FNDC	FNDC	av./km FNDC	FNDC					FNDC		OVERALL FNDC		1 1
Paranui Road		213	8 2,26	7 2,627	7 360	0	0	2	0	0.75	0	0	0	0	2	0	2	1	0	0	0	0	0	2	0	0	0	9.75	1339	1483
Whirinaki School Road		256	´			2	0 0	3	2	1.70	0	0 0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	9.70	1340	426
Dawson Access Road		163	_			1	0	1	2	1.70	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	9.70	1341	876
Matawherohia Road Ranui Road		197 223				4	0	3	0	0.70	0	0	0	0	0	0	1 0	1 2	0	0	0	0	0	0	0	0	0	9.70 9.70	1342 1343	1110
Inksters Road		179	7 3,98	4 4,284	300	1	2	0	3	0.70	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	9.70	1344	1299
Pakaru Road Ohuri Road		212			300 158	2	1 0	2	2	0.70 0.65	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	9.70 9.65	1345 1346	1300 647
Kahikatoa Road		181		2 2,530 6 789		1	3	0	3	1.65	0	0	0	0	0	0	0	1 1	0	0	0	0	0	0	0	0	0	9.65	1346	1301
Puketi Road		219			) 199	1	5	1	5	0.50	0	0	0	0	2	0	0	0	0	0	0	2	0	2	0	0	0	18.50	1348	144
Simmental Lane Beaufort Road		314		8 1,344 0 77		1	3	1 2	3	0.65	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	9.65 9.60	1349 1350	1302
Fern Flat Road	-	168				2	0	3	0	0.60	0	0	0	0	1	0	2	1	0	0	0	0	0	0	0	0	0	9.60	1351	1112
Mangataipa Road		193	´	´		3	0	3	0	0.60	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	9.60	1352	1113
Wekaweka Road Mission Oak Road		253				1	3	1 0	3	0.60	0	0	0	0	1 0	0	0	0	0	0	0	0	0	0	0	0	0	9.60 9.60	1353 1354	1114 1303
Opara Road		208	3 1,17	0 2,151	. 981	2	0	2	1	2.60	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	9.60	1355	1304
Range Road		222				1	2	2	3	0.60	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	9.60 9.60	1356	1305 1484
Nelsons Road Koutu Loop Road		205			<u> </u>	1	0	3	0	1.60	0	0	0	0	0	0	2	1	0	0	0	1	0	0	0	0	0	9.60	1357 1358	1485
Ngawhitu Road		204		5 564	199	1	3	1	3	0.50	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	9.50	1359	648
Fern Flat Road Graham Road	_	168	´	8 9,050 0 349		2	0	3	0	0.50	0	0	0	0	1	0	2	1	0	0	0	0	0	0	0	0	0	9.50 9.50	1360 1361	1115
Hansen Road	WAIMAMA	173		0 350		1	2	1	3	0.50	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	9.50	1362	1117
Jordan Road	_	181				3	0	2	2	0.50	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	9.50	1363	1306
Omatai Road Thompsons Access		207		6 1,501 0 381		1	0	1 0	2	2.50	0	0	0	0	0	0	2	1 1	0	0	0	0	0	0	0	0	0	9.50 9.50	1364 1365	1307 1308
Church Road	KAITAIA	159			300	4	4	4	4	0.60	0	0	0	0	0	0	1	2	0	0	0	0	0	1	0	0	0	20.60	1366	73
Makene Road Tauteihiihi Road	_	191 240		0 291 2 912	291	1	0	1	2	0.50	0	0	0	0	0	0	2	1	0	0	0	2	0	0	0	0	0	9.50 9.45	1367 1368	1486
Matawherohia Road		197			300	4	0	3	0	0.40	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	9.40	1369	1119
Mill Road Taheke Road	KAINGAROA	200				2	1 0	3	2	0.40	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	9.40 9.40	1370 1371	1309 1487
Te Rore Road		235	<u>´</u>	<u> </u>	7 845	2	0	2	1	1.40	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	9.40	1371	1487
Lucas Road		304				1	3	0	4	0.40	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	9.40	1373	1628
Buchanan Road Hobbs Road		156			644	3	0	0	2	1.35 0.35	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	9.35 9.35	1374 1375	1120 1489
Gumfields Road		172	4 5	5 408	353	2	0	3	1	0.35	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	9.35	1376	1629
Peria Road Tahanga Road		215		4 2,631 0 206		3	0	3	0	0.35	0	0	0	0	0	0	2	1 2	0	0	0	0	0	0	0	0	0	9.35 9.30	1377 1378	1630 649
McKenzie Road	PURERUA	315		_	256	1	3	0	3	0.30	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	9.30	1378	1121
Browns Road	TE IRENGA	156				1	3	0	3	1.30	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	9.30	1380	1310
Fern Flat Road Jacksons Road	OMAHUTA	168				3	0	3	0	0.30	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	9.30 9.30	1381 1382	1311 1312
Jordan Road		181	2 4,72	3 5,023	300	3	0	2	2	0.30	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	9.30	1383	1313
Mangataipa Road Matawera Road		193 197				3	2	3	0	0.30	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	9.30 9.30	1384 1385	1314 1315
Pine Hill Road		216				2	0	1	1	0.30	0	0	0	0	0	0	0	1	1	0	0	0	0	0	2	1	0	9.30	1386	1316
GLENDALE HEIGHTS		340		0 265		1	3	1	3	0.30	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	9.30	1387	1490
Kohumaru Road Pupuke Mangapa Road		186				2	0	0	0	0.30	0	0	0	0	0	0	2	1	2	0	0	0	0	0	2	1	0	9.30 9.30	1388 1389	1491 1492
Taita Road		236	8 1,55	8 2,446	5 888	1	0	3	2	1.30	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	9.30	1390	1493
Mangataraire Road		193 232				3	0	1 3	2	0.30	0	0	0	0	0	0	2	1 2	0	0	0	0	0	0	0	0	0	9.30	1391	1631
Snelgar Road Omapere Road		232		· · · ·		2	1	2	2	0.25	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	9.25 9.25	1392 1393	877 1317
Imms Road	LAKE OMAP	179	4 2,33	7 2,637	7 300	2	0	2	0	0.20	0	0	0	0	0	3	0	2	0	0	0	0	0	0	0	0	0	9.20	1394	878
Kauaepepe Road Woodbine Road	KAIKOHE	183 321	_	0 182		4	0	2	0	0.20 3.20	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	9.20 9.20	1395 1396	879 880
Knudsens Road		186	3 1,96	5 2,265	300	3	0	2	2	1.20	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	9.20	1390	1122
Rakautapu Road		221				1	0	2	1	3.20	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	9.20	1398	1123
Sandhills Road Topps Access Road	-	229 316				4	0	3	0	0.20	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	9.20 9.20	1399 1400	1124 1125
Trig Road		246	0 2,63	0 2,930	300	3	0	3	1	0.20	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	9.20	1401	1126
Waiaua Road		313	0 1,73	9 2,039	300	3	0	3	0	0.20	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	9.20	1402	1127

												:	23 of 29 Pr	inted on 19	/06/2021		505 6 100					- · ·						A	PEN	DIX 2
			RA	MM DATA															ED DMF (C	overing PG	F and IIF	Categories	s)							
							Defeult	Defeult	Default	Factor of	Factor of			Factor of	Defeult	Defeult	Factor of		Defeult	Default	Defeult	Default	Defeult	Defeut	Defeult	Defeut	Default	<i></i>		
4		<b>4</b>	₹ ▶	₹ ▶	<u>ک</u>	ault	Default	Default	Default	Importan ce	Importan ce	Importan ce	Importan ce	Importan ce	Default	Default	Importan ce	Importan ce	Default	Default	Default	Default	Default	Default	Default	Default	Default	****	27111132	
		$\checkmark$	$\checkmark$	$\checkmark$	$\sim$	Data	Data	Data	Data	200%	200%	100%	100%	100%	Data	Data	100%	100%	Data	0	0	Data	Data	Data	Data	Data	Data			
Range of Data					14 - 2671	0 - 5	0 - 5	0 - 5	0 - 5	0 - 13	0 - 10	0 - 3	0 - 5	0 - 5	0 - 4	0 - 4	0 - 2	0 - 2	0 - 5	0 - 0	0 - 0	0 - 2	0 - 2	0 - 2	0 - 2	0 - 2	0 - 3	1 - 31	1 - 1810	1 - 1031
						0	25	20	30	0.025	0	0	0	0	0	0	open plains or coastal some land	Nore than 2 events per 0-1 events	0	\$3,000	\$3,000,000	on this	No Resilience	No Resilience	No	0	0	0		
					-	1	26	21	31	0.075	0	0	0	0	1	1	fosturer Inland	Less than one	1-2	\$9,000	\$975,000	Road but no Road	Road but no	Road but no.		1-2	1	1	4	
					ŀ	6	30 40	45 85	38	0.100	0	0	0	0	2	2	enclosed	ovent even	2-3 3-5	\$30,000 \$106,000	\$375,000 \$112,500	Sections	Fortions	Sections	YES	>3	2	2	-	
					9,477	26	50	185	68	0.300	0	0	0	0	4	4			5-7	\$371,000	\$37,501						4	4	1	
					-,	50	70	350	100	0.350	1	2	1	1	5	5			7-10	\$1,295,000	\$37,500						5	5	1	
						SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	PRIORITY	PRIORITY
						HCV 5 day	нсу	LDV 5 day	Speed of	Houses	Schools	Maraes	Churches	Health	Ecological	Horicul-	Location	Frequency	Longevity	Annual Mntence	Estimated	Tourism	Disaster	Network	Logging	Years of	Milk sheds	FNDC	FNDC Road	Circular
Road Name	Location	Road ID	Start	End	Length	AADT	Speed	AADT	LDVs (Est)	within	FNDC	FNDC	FNDC	Centers	Areas	tural areas	of	of rain	of HCV	Cost	Sealing	Route	Resilience	Resilience	Route	Logging /	FNDC		Rating	16/04
						FNDC	FNDC	FNDC	FNDC	(300m				FNDC	FNDC	FNDC	Roadway	days	route	Prev 3 year	Cost	FNDC	FNDC	FNDC	FNDC	HCV Est.		OVERALL	FNDC	Rating
										from road)							FNDC	FNDC	FNDC	av./km FNDC	FNDC					FNDC		OVERALL FNDC		i
Kahikatoa Road		1815	1,479	1,629	150	1	3	0	3	0.20	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	9.20	1403	1318
Mangataipa Road		1932	1,170	1,470	300	3	0	3	0	0.20	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	9.20	1404	1319
Kohumaru Road Dangen Road		1862 1624	8,849	9,149 243	300 243	1	0	0	0	0.20	0	0	0	0	0	0	2	1 2	2	0	0	0	0	0	2	1	0	9.20 9.20	1405 1406	1494 1632
Fern Flat Road		1624	5,034	5,475	441	3	0	3	0	0.20	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	9.20	1406	1632
Kohe Road		1864	2,607	2,907	300	2	0	0	0	0.20	0	0	0	0	0	0	2	1	1	0	0	0	0	0	2	1	0	9.20	1408	1634
Waikare Valley Road Kohumaru Road		2485 1862	3,216 13,401	3,532 13,701	316 300	3	0	3	0	0.20	0	0	0	0	0	0	2	1	0	0	0	2	0	0	0	0	0	9.20 9.20	1409 1410	1635 1729
Lamberg Road		1895	0	150	150	2	3	0	3	0.15	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	9.15	1410	1495
Pokapu Road		2169 1724	12,084 804	12,384 1,104	300 300	2	0	3	1	0.15	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	9.15 9.15	1412 1413	1496 1636
Gumfields Road Hansen Road	WAIMAMA	1/24	470	1,104	150	1	2	3	3	0.15	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	9.15	1413	1636
Jordan Road		1812	3,073	3,373	300	3	0	2	2	0.15	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	9.15	1415	1638
Lake Road Otaenga Road	OKAIHAU	1891 2100	9,136 1,243	9,436	300 150	3	0	2	2	0.15	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	9.15 9.15	1416 1417	1639 1640
Te Karoa Road		2418	22	322	300	3	0	3	0	0.15	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	9.15	1417	1640
Te Karoa Road		2418	1,332	1,632	300	3	0	3	0	0.15	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	9.15	1419	1642
Whangape Road Taheke Road	-	2555 2359	5,729 9,408	6,029 9,708	300 300	2	0	3	0	0.15	0	0	0	0	0	0	2	2	0	0	0	2	0	0	0	0	0	9.15 9.15	1420 1421	1643 1730
Koutu Loop Road		1879	7,287	7,587	300	1	0	3	1	0.15	0	0	0	0	0	0	2	1	0	0	0	1	0	0	0	0	0	9.15	1422	1787
Wekaweka Road Otaenga Road		2535 2100	43	361 499	361 456	1	1	2	2	2.10	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	9.10 9.10	1423 1424	650 1128
Waikino Road		2493	6,855	7,413	558	2	0	2	1	1.10	0	0	0	0	2	0	0	1	0	0	0	0	0	0	0	0	0	9.10	1425	1129
Matene Road McKenzie Road	PURERUA	1981 3157	380	530 231	150 231	1	3	0	3	0.10	0	0	0	0	1	0	0	1 2	0	0	0	0	0	0	0	0	0	9.10 9.10	1426 1427	1320 1497
Remuera Settlement Road	PURERUA	2251	2,963	3,533	570	3	0	3	1	0.10	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	9.10	1427	1497
Sturge Road		2348	0	168	168	1	3	1	3	0.10	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	9.10	1429	1644
Imms Road Proctor Road	LAKE OMAP	1794 2178	3,952 2,712	4,102 3,506	150 794	2	0	2	0	0.05	0	0	0	0	0	3	0	2	0	0	0	0	0	0	0	0	0	9.05 9.05	1430 1431	1321 1322
Matawherohia Road		1979	3,076	3,376	300	4	0	3	0	0.05	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	9.05	1432	1499
McKenzie Road	PURERUA	3157	434	734	300 150	1	3	0	3	0.05	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	9.05	1433	1500
Te Moho Road Wekaweka Road		3152 2535	218 13,469	14,940	1,471	1	3	0	3	0.05	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	9.05 9.05	1434 1435	1501 1502
Paranui-Toatoa Road		3132	2,429	2,729	300	1	0	2	0	0.05	0	0	0	0	1	0	2	1	0	0	0	0	0	2	0	0	0	9.05	1436	1645
Peria Road Makene Road	_	2156 1919	1,833 823	2,133	300	3	0	3	0	0.05	0	0	0	0	0	0	2	1	0	0	0	2	0	0	0	0	0	9.05 9.05	1437 1438	1646 1731
Somerville Road		3091	3,062	3,362	300	1	1	1	2	0.05	0	0	0	0	0	0	1	1	0	0	0	0	0	2	0	0	0	9.05	1439	1732
Taheke Road		2359 2359	8,470	8,770	300 300	2	0	2	0	0.05	0	0	0	0	0	0	0	1	0	0	0	2	2	0	0	0	0	9.05	1440	1733
Taheke Road Waimatenui / Mataraua Road		2359	9,018 23,625	9,318 23,925	300	2	0	2	0	0.05	0	0	0	0	0	0	0	1 0	0	0	0	2	2	0	2	0	0	9.05 9.05	1441 1442	1734 1788
Jacks Bay Road		1803	0	372	372	1	0	1	2	3.00	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	9.00	1443	651
Dysart Road Otaenga Road		1661 2100	513 695	854 998		1	0	1	2	1.00	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	9.00 9.00	1444 1445	881 1130
Mangataraire Road		1933	590	936	346	3	0	1	1	1.00	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	9.00	1446	1323
Homestead Road Srvc Lane 1		3412	0	40	40	3	1	1	2	0.00	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	9.00	1447	1503
Porters Access Road Extension Tamatea Road		3120 2376	88	152 226		2	3	0	3	0.00	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	9.00 9.00	1448 1449	1504 1505
Burma Road		1568	48	150	102	3	0	1	2	0.00	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	9.00	1450	1647
Lake Road Omatai Road	OKAIHAU	1891 2076	9,584	9,655 283	71	3	0	2	2	0.00	0	0	0	0	0	0	0	1	0	0	0	1 0	0	0	0	0	0	9.00 8.90	1451	1648
De Thierry Street		1634	765	283	283 337	1	3	0	3	0.90	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	8.90	1452 1453	652 1324
Te Karaka Road		2419	31	1,520	1,489	2	0	3	1	1.90	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	8.90	1454	1325
Te Rore Road Wellsford Road		2430 3195	2,288	2,913 451	625 451	2	0	2	1 3	0.90	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	8.90 8.85	1455 1456	1506 1326
Pipiroa Road		2163	52	234	182	1	0	1	2	2.80	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	8.80	1457	653
Meffin Road		1995	0	202		1	2	0	3	1.70	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	8.70	1458	654
Munn Road Fords Road		2028 1690	842	184 1,142		1	0	2	2	0.70	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	8.70 8.70	1459 1460	1131 1507
Matawaia-Maromaku Road		1977	2,973	3,273	300	0	0	3	0	0.70	0	0	0	0	0	0	2	2	0	0	0	0	1	0	0	0	0	8.70	1461	1508
Pakehaua Road Omahuta Road		2124 2074	0 3,570	1,000	1,000	1	0	0	1 0	3.65 0.60	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	8.65 8.60	1462 1463	1132 1327
Smoothy Road		2074	5,570	3,870		1	0	1	0	3.60	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	8.60	1465	1328
Fords Road		1690	1,175	1,616		1	0	2	2	0.55	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	8.55	1465	1509
Callaghans Road		1574	2,416	2,850	434	3	0	3	0	0.50	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	8.50	1466	1133

TL Priortisation

			D/	MM DATA									24 of 29 Pr	inted on 19	0/06/2021					overing PG	E and TIE (	Catagorias	1					A	PPEN	IDIX 2
										5 1 (	<b>.</b>	<b>c</b> , (	<b>.</b>	<b>I5 1 6</b>						overing PG		categories	»)							
						ault	Default	Default	Default	Factor of Importan	Factor of	Importan	Factor of Importan	Importan	Default	Default	Factor of Importan	Factor of Importan	Default	Default	Default	Default	Default	Default	Default	Default	Default	####		
<					< 🕨					ce	ce	ce	ce	ce			ce	ce												
						Data	Data	Data	Data	200%	200%	100%	100%	100%	Data	Data	100%	100%	Data	0	0	Data	Data	Data	Data	Data	Data			
Range of Data					14 - 2671	0 - 5	0-5	0 - 5	0-5	0 - 13 0.025	0 - 10	0-3	0-5	0-5	0-4	0-4	0 - 2 open plains	0 - 2 More than 2	0-5	0-0	0 - 0	0 - 2	0 - 2 No resilience	0 - 2 No resilience	0 - 2	0 - 2	0-3	1 - 31	1 - 1810	1 - 1031
					ŀ	0	25	20	30 31	0.025	0	0	0	0	0	1	some land	0-1 events	0	\$3,000 \$9,000	\$3,000,000 \$975,000	on this Road but no	On Resilience	on Resilience	No	0	0	0	1	
					Ē	6	30	45	38	0.100	0	0	0	0	2	2	inland	Less than one	2-3	\$30,000	\$375,000	Road Sections	Road Road	Road	YES	>3	2	2	1	
						11	40	85	50	0.150	0	1	0	0	3	3			3-5	\$106,000	\$112,500						3	3	1	
					9,477	26	50 70	185 350	68 100	0.300	0	2	0	0	4	4			5-7 7-10	\$371,000 \$1,295,000	\$37,501 \$37,500						4	4	4	
						SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	PRIORITY	PRIORITY
																				Annual										
Road Name	Location	Road ID	Start	End	Length	HCV 5 day AADT	HCV Speed	LDV 5 day AADT	Speed of LDVs (Est)	Houses within	Schools FNDC	Maraes FNDC	Churches FNDC	Health Centers	Ecological Areas	Horicul- tural areas	Location of	Frequency of rain	Longevity of HCV	Mntence Cost	Estimated Sealing	Tourism Route	Disaster Resilience	Network Resilience	Logging Route	Years of Logging /	Milk sheds FNDC	FNDC	FNDC Road Rating	Circular 16/04
nou nunc	Location	nouurb	Start	LING	cengen	FNDC	FNDC	FNDC	FNDC	(300m				FNDC	FNDC	FNDC	Roadway	days	route	Prev 3 year	Cost	FNDC	FNDC	FNDC	FNDC	HCV Est.			FNDC	Rating
										from road)							FNDC	FNDC	FNDC	av./km FNDC	FNDC					FNDC		OVERALL FNDC		
Mangapupu Road	-	1931	963	1,456	493	1	2	1	3	0.50	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	8.50	1467	1134
Ngawhitu Road		2044	648	1,151	503	1	2	1	3	0.50	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	8.50	1468	1329
Wharau Road Motukiore Road		2560 2025	3,623	4,234	611 509	2	0	3	1 2	0.50	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	8.50 8.50	1469 1470	1330 1510
Mill Road	KAINGAROA	2008	4,271	4,421	150	2	0	3	2	0.45	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	8.45	1471	1135
Rangi Point Road Brindle Road		2223 1558	5,764	6,304 259	540 259	3	0	2	1 2	1.45 1.40	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	8.45 8.40	1472 1473	1331 655
Okoro Road		2066	0	710	710	1	2	0	3	1.40	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	8.40	1473	1136
Parapara-Toatoa Road Ngatikahu Road		2133 2040	1,452	2,020	568 129	0	0	1 0	2	0.40	0	0	0	0	0	0	2	1 2	0	0	0	0	0	2	0	0	0	8.40 8.40	1475 1476	1789 656
Whangape Road		2555	11,089	12,740	1,651	1	0	0	1	2.40	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	8.35	1476	1511
Wallace Road	LAKE OHIA	2523	775	1,075	300	1	0	0	1	0.35	0	0	0	0	0	0	0	2	1	0	0	0	0	0	2	1	0	8.35	1478	1649
Te Rore Road Te Karaka Road		2430 2419	4,427 3,676	4,818 3,828	391 152	2	0	2	2	0.35	0	0	0	0	0	0	0	1 1	0	0	0	0	0	0	0	0	0	8.35 8.30	1479 1480	1735 882
Hikuwai Road		1884	119	900	781	1	0	0	2	3.30	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	8.30	1481	1137
Mihirata Road Puhitia Road	-	2007	589 278	903 893	314 615	1	0	1	2	1.30	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	8.30 8.30	1482	1138 1139
Tipa Tipa Road		2444	1,952	2,252	300	1	0	0	2	0.30	0	0	0	0	1	0	1	1	0	0	0	0	0	0	2	0	0	8.30	1484	1140
Gammons Road Oetzman Road	+	1701 2055	5,558 803	5,858 1,288	300 485	1	0	2	0	0.30	0	0	0	0	0	2	2	1	0	0	0	0	0	0	0	0	0	8.30 8.30	1485 1486	1332 1333
Pakaru Road		2123	7,122	7,422	300	2	0	2	2	0.30	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	8.30	1487	1334
Te Tio Road Matawaia-Maromaku Road	+	2432	5,037	5,337	300	0	2	1 3	3	0.30	0	0	0	0	0	0	2	1 2	0	0	0	0	0	0	0	0	0	8.30 8.30	1488 1489	1335
Wharau Road		2560	4,277	4,684	407	2	0	3	0	1.25	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	8.25	1490	883
Dysart Road Te Tio Road		1661 2432	0 1,640	403	403	2	0	1 2	2	0.25	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	8.25 8.20	1491 1492	1650 657
Eaton Road		1664	152	580	428	1	0	0	0	3.20	0	0	0	0	1	0	2	1	0	0	0	0	0	0	0	0	0	8.20	1493	884
Katavich Road Packers Road		1832 2119	1,229 570	1,593 720	364 150	1	0	1	2	1.20 0.20	0	0	0	0	1	0	0	2	0	0	0	0	0	0	0	0	0	8.20 8.20	1494 1495	885
Te Huia Marae Road		3100	0	522	522	1	0	0	0	3.20	0	3	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	8.20	1496	1142
Powells Road Stoney Creek Road	DIGGERS VA	2177	996 7,345	1,313 7,553	317 208	1	1 0	1	2	1.20 0.20	0	0	0	0	0	0	2	2	0	0	0	0	0	2	0	0	0	8.20 8.20	1497 1498	1336 1337
WAA HOTERENE ROAD	MATAWAIA	1800	287	587	300	1	2	0	3	0.20	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	8.20	1499	1338
Jordan Road Panther Road		1812	6,246 549	6,546 1,420	300 871	1 3	0	2	2	0.20	0	0	0	0	1 0	0	1	1	0	0	0	0	0	0	0	0	0	8.20 8.20	1500 1501	1513 1514
Paranui Road		2138	3,950	4,250	300	0	0	2	0	0.20	0	0	0	0	1	0	2	1	0	0	0	0	0	2	0	0	0	8.20	1502	1515
Jasons Road Tauteihiihi Road		3248 2401	8 396	158 696	150 300	1	2	0	3	0.20	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	8.20 8.20	1503 1504	1651 1652
Te Irenga West Road		3235	626		150	1	3	0	3	0.20	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	8.20	1505	1653
Morgans Road Te Irenga West Road		3171 3235	85	235 361	150 300	1	3	0	3	0.15	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	8.15 8.15	1506	1654
Maromaku-Towai Road		1953	5,286	5,586	300	0	1	3	2	0.15	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	8.15	1508	1736
Paranui Road Tipene Road	+	2138 2445	3,641 4,833	3,941 5,133	300 300	0	0	2	0	0.15	0	0	0	0	1 0	0	2	1	0	0	0	0	0	2	0	0	0	8.15 8.15	1509 1510	1737 1738
Wharepunga Road		2563	736	1,036	300	1	3	1	3	0.15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8.15	1511	1739
Settlement Road Wekaweka Road	+	2304 2535	1,076	1,376		2	1 2	1	2	0.05	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	8.05 8.05	1512 1513	1516 1517
Callaghans Road		1574	3,103	3,403	300	3	0	3	0	0.05	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	8.05	1514	1656
Mill Road Rakautao Road	KAINGAROA	2008	3,584	3,884 353	300 150	2	0	3	2	0.05	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	8.05 8.05	1515 1516	1657 1658
Waikuku Road		2495	2,405	2,555	150	3	0	3	2	0.05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8.05	1517	1659
Paroa Road Doels Road	KAWAKAWA	2140 1643	1,906 102	2,160 649		1	0	2	2	1.00	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	8.00 8.00	1518 1519	886 1339
Goodwins Road		1709	420	566	146	1	2	0	3	0.00	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	8.00	1520	1340
Waimangaro Road Unahi Road	+	3174 3011	0 2,105	150 2,210		4	0	2	0	0.00	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	8.00 8.00	1521	1341 1518
Crallans Road		1617	0	143	143	1	3	0	3	0.00	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	8.00	1523	1660
Onepu Block Road Puriri Block Road Extension		3351 3012	0	150 407		1	3	0	3	0.00	0	0	0	0	0	0	0	1 2	0	0	0	0	0	0	0	0	0	8.00 8.00	1524 1525	1661 1662
Tauteihiihi Road		2401	107	238	116	1	3	0	3	0.00	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	8.00	1526	1663
Davey Road Church Road	KAITAIA	1629 1596	0 13,104	447 13,851	447	1 4	1 5	0	2	0.90	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	7.90	1527 1528	1143 38
Vujcich Road	IN ALA	2481	574	912	338	2	1	1	2	0.90	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	7.90	1529	1342
Te Rore Road		2430	5,685	6,445	760	2	0	2	0	0.80	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	7.80	1530	1519

						_							25 of 29 Pr	inted on 19	0/06/2021		END O UN					0-4	-1					A	PPEN	IDIX 2
			ŀ	RAMM DATA	•												FNDC UN		ED DMF (C	overing PG	F and IIF	Categories	5)							
										Factor of			Factor of				Factor of													
2		~		·	_ با <b>ال</b>	ault	Default	Default	Default	Importan ce	Importan ce	Importan ce	Importan ce	Importan ce	Default	Default	Importan ce	Importan ce	Default	Default	Default	Default	Default	Default	Default	Default	Default	****	21001120	
		$\sim$	$\sim$	$\sim$		Data	Data	Data	Data	200%	200%	100%	100%	100%	Data	Data	100%	100%	Data	0	0	Data	Data	Data	Data	Data	Data			
Range of Data					14 - 2671	0 - 5	0-5	0-5	0 - 5	0 - 13	0 - 10	0-3	0 - 5	0-5	0 - 4	0-4	0 - 2	0-2	0-5	0 - 0	0-0	0 - 2	0 - 2	0-2	0 - 2	0 - 2	0-3	1 - 31	1 - 1810	1 - 1031
					-	0	25	20	30	0.025	0	0	0	0	0	0	open plains or coastal	More than 2 events per	0	\$3,000	\$3,000,000	on this	NO RESILIENCE Road	NO RESILIENCE Road	No	0	0	0		
						1	26	21	31	0.075	0	0	0	0	1	1	some land features	0-1 events	1-2	\$9,000	\$975,000	Road but no	On Resilience	On Resilience Poad but no		1-2	1	1	]	
						6	30	45	38	0.100	0	0	0	0	2	2	in land	Less than one	2-3	\$30,000	\$375,000	Road Sections	Road	Road	YES	>3	2	2		
						11	40	85	50	0.150	0	1	0	0	3	3			3-5	\$106,000	\$112,500						3	3	-	
					9,477	26	50	185 350	68 100	0.300	0	2	0	0	4	4			5-7 7-10	\$371,000 \$1,295,000	\$37,501 \$37,500		<u> </u>				4	4	-	
					<del>,  </del>	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	PRIORITY	PRIORITY
																				Annual										
						HCV 5 day	нсу	LDV 5 day	Speed of	Houses	Schools	Maraes	Churches	Health	Ecological	Horicul-	Location	Frequency	Longevity	Mntence	Estimated	Tourism	Disaster	Network	Logging	Years of	Milk sheds	FNDC	FNDC Road	Circular
Road Name	Location	Road ID	Start	End	Length	AADT FNDC	Speed FNDC	AADT FNDC	LDVs (Est) FNDC	within (300m	FNDC	FNDC	FNDC	Centers FNDC	Areas FNDC	tural areas FNDC	of Roadway	of rain days	of HCV route	Cost Prev 3 year	Sealing Cost	Route FNDC	Resilience FNDC	Resilience FNDC	Route FNDC	Logging / HCV Est.	FNDC		Rating FNDC	16/04 Rating
										from							FNDC	FNDC	FNDC	av./km	FNDC					FNDC		OVERALL		
										road)										FNDC								FNDC		
Owhata Road		211				2	0	2	2	0.75	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	7.75	1531	1343
Remuera Settlement Road Pakaru Road		225		<u> </u>		2	0	2	2	0.70	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	7.70	1532 1533	1144 1520
Blue Mountain Road		154	´	0,37		1	0	0	0	3.70	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	7.70	1534	1520
Paparangi Drive	MITIMITI	321		0 368		1	0	1	0	4.65	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	7.65	1535	1145
Mihirata Road Mountain Road		200			7 372 3 434	1	0	1	2	0.60	0	0	0	0	0	0	1 2	2	0	0	0	0	0	0	0	0	0	7.60	1536	1146 1147
Peras Road		215	3 2,02	1 2,171	1 150	1	0	1	2	0.60	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	7.60	1538	1344
Hives Road		176		0 813		1	0	1	2	1.60	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	7.60	1539	1522
Tipene Road Martin Road	POKERE	244	<u>´</u>		0 520 7 207	3	0	1 0	0	0.55	0	0	0	0	0	0	2	1 2	0	0	0	0	0	0	0	0	0	7.55	1540 1541	1523 887
Puriri Block Road		220		0 306		1	0	0	1	0.50	0	0	0	0	1	0	2	2	0	0	0	0	0	0	0	0	0	7.50	1542	888
Wekaweka Road	_	253	´			1	1	1	2	0.50	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	7.50	1543	1148
Saward Road Weber Road	+	229		· · ·		1	3	0	3	0.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7.50	1544	1740
Green Lane		171	.3	0 716		1	0	1	1	2.45	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	7.45	1546	1149
Taita Road	_	236				1	0	3	0	1.45	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	7.45	1547	1525
Ngatimanawa Road Omahuta Road	-	204		0 100		1	0	0	2	0.40	0	3	0	0	0	0	0	1	0	0	0	2	0	0	0	0	0	7.40	1548 1549	889 890
Mihi Road		200	6	0 830	0 830	1	0	1	2	2.40	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	7.40	1550	1345
Oetzman Road Cook Road		205				1	0	2	2	0.40	0	0	0	0	0	0	1 2	1	0	0	0	0	0	0	0	0	0	7.40	1551 1552	1346 1526
Motukiore Road	+	202		_		1	0	0	2	0.40	0	0	0	0	0	0	2	1	0	0	0	1	ō	0	0	0	0	7.40	1553	1520
Katavich Road		183		· · ·		1	0	1	2	0.30	0	0	0	0	1	0	0	2	0	0	0	0	0	0	0	0	0	7.30	1554	891
Orira Road Oromahoe Road		208		-		1	0	2	2	0.30	0	0	0	0	1	0	2	1 2	0	0	0	0	0	0	0	0	0	7.30 7.30	1555	1150
Bentzen Drive		153				1	0	2	2	1.30	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	7.30	1557	1347
Brindle Road		155				3	0	1	2	0.30	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	7.30	1558	1348
Opahi Station Road Rata Tipene Road	-	208				1	0	3	0	0.30	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	7.30	1559 1560	1349 1350
Settlement Road		230	4 41	.5 715	5 300	3	0	2	0	0.30	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	7.30	1561	1351
Waikerikeri Road Munn Road		249	_	0 296		1	0	0	2	1.30 0.30	0	0	0	0	0	0	2	1 2	0	0	0	0	0	0	0	0	0	7.30	1562	1352
Rakautapu Road	+	202	_	_		1	0	2	1	1.30	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	7.30	1564	1528
Te Rore Road		243				2	0	2	0	0.30	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	7.30	1565	1530
Te Rore Road McIntyres Road		243 199				2	0	2	0	0.30	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	7.30	1566 1567	1531 1664
Shepherd Road	FERN FLAT	230	8 19		0 1,101	2	0	2	1	2.30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7.30	1568	1665
Kingfisher Point Road		185		0 330		2	0	0	2	1.25	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	7.25	1569	428
Whangape Road Rangi Point Road	-	255				3	0	0	0	2.25	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	7.25	1570 1571	1353 1532
Lanes Road		189	4 51	.3 885	5 372	1	0	2	2	0.25	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	7.25	1572	1666
McDonalds Road Mihirau Road	OROMAHO	E 199 317		9 818 0 429		1	1 0	1 0	2	1.20 1.20	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	7.20	1573 1574	1354 1355
Omahuta Road	+	207		_		1	0	1	0	0.20	0	0	0	0	1	0	1	1	0	0	0	2	0	0	0	0	0	7.20	1574	1355
Warner Road		252				1	0	1	2	0.20	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	7.20	1576	1357
Remuera Settlement Road Te Rore Road		225				2	0	2	2	0.20	0	0	0	0	0	1 0	0	1	0	0	0	0	0	0	0	0	0	7.20	1577 1578	1533 1534
Waihapa Road	+	243				1	0	2	2	0.20	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	7.20	1578	1535
Kelly Road		184	_			1	0	1	2	0.20	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	7.20	1580	1667
Tracey Road Marlow Road		245 194		<u>´</u>		0	2	0	3	0.20	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	7.20	1581 1582	1668 1790
Okura Bay Road		342				1	0	1	0	3.20	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	7.20	1583	892
Remuera Settlement Road		225	1 5,87	2 6,172	2 300	1	0	2	1	0.15	0	0	0	0	1	1	0	1	0	0	0	0	0	0	0	0	0	7.15	1584	1358
Sharnocks Road Jordan Road		230				1	0	0	2	0.15	0	0	0	0	1 0	0	2	1	0	0	0	0	0	0	0	0	0	7.15	1585 1586	1536 1741
Nelsons Road		203		<u>´</u>		1	0	1	2	0.15	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	7.15	1587	1741
Tipene Road		244	5 5,69	9 5,944	4 245	1	0	1	2	0.15	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	7.15	1588	1743
Tahanga Road Omahuta Road		235				3	0	1	0	0.10	0	0	0	0	1	0	0	2	0	0	0	0	0	0	0	0	0	7.10 7.10	1589 1590	1359 1744
Upokorau Road		207				1	1	0	2	0.10	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	7.10	1590	1744
Kent Street	WHANGAR					1	0	0	2	2.00	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	7.00	1592	658
Bristow Road Giles Road		307		0 103		1	0	1 0	2	0.00	0	0	0	0	0	0	1 2	2	0	0	0	0	0	0	0	0	0	7.00	1593 1594	1669 1670
Louis Konn		328	~	Y 150	1 130	L				0.00	U									U		U		U	Ű	U		7.00	1374	10/0

			R/	AMM DATA									26 of 29 Pr	rinted on 19	/06/2021					overing PG	F and TIF (	Categories	2)					AF	PEN	IDIX 2
		_				_	-			Factor of	Factor of	Castar of	Factor of	Fastar of						overing PO		categories	s,	-				1		
						ault	Default	Default	Default	Importan	Importan		Factor of Importan	Importan	Default	Default	Factor of Importan			Default	Default	Default	Default	Default	Default	Default	Default	####		
۲ 🕨					<u>ح</u>					ce	ce	ce	ce	ce			ce	ce												
					$\sim$	Data	Data	Data	Data	200%	200%	100%	100%	100%	Data	Data	100%	100%	Data	0	0	Data	Data	Data	Data	Data	Data			
Range of Data					14 - 2671	0 - 5	0 - 5	0 - 5	0 - 5	0 - 13	0 - 10	0 - 3	0 - 5	0 - 5	0 - 4	0 - 4	0 - 2	0 - 2 More than 2	0 - 5	0 - 0	0 - 0	0 - 2	0 - 2 No Resilience	0 - 2	0 - 2	0 - 2	0 - 3	1 - 31	1 - 1810	1 - 1031
					ŀ	0	25	20	30 31	0.025	0	0	0	0	0	0	or coastal some land	ovents ner 0-1 events	0	\$3,000	\$3,000,000 \$975,000	on this Read but no	Doad On Resilience	Poad e On Resilience	No	0	0	0	-	
					ŀ	6	30	45	38	0.100	0	0	0	0	2	2	foaturer in land	Less than one	2-3	\$30,000	\$375,000	Road but no Road	Road but no	Road	YES	>3	2	2	1	
					F	11	40	85	50	0.150	0	1	0	0	3	3	enclosed	ovent even	3-5	\$106,000	\$112,500	Sections	Cortions	Sections			3	3	1	
					9,477	26	50	185	68	0.300	0	0	0	0	4	4			5-7	\$371,000	\$37,501						4	4	]	
						50	70	350	100	0.350	1	2	1	1	5	5			7-10	\$1,295,000	\$37,500						5	5		<u> </u>
						SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCO RE Annual	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	PRIORITY	PRIORITY
						HCV 5 day	нсv	LDV 5 day	Speed of	Houses	Schools	Maraes	Churches	Health	Ecological	Horicul-	Location	Frequency	Longevity	Mntence	Estimated	Tourism	Disaster	Network	Logging	Years of	Milk sheds	FNDC	FNDC Road	Circular
Road Name	Location	Road ID	Start	End	Length	AADT	Speed	AADT	LDVs (Est)	within	FNDC	FNDC	FNDC	Centers	Areas	tural areas	of	of rain	of HCV	Cost	Sealing	Route	Resilience	Resilience	Route	Logging /	FNDC		Rating	16/04
						FNDC	FNDC	FNDC	FNDC	(300m from				FNDC	FNDC	FNDC	Roadway FNDC	days FNDC	route FNDC	Prev 3 year av./km	Cost FNDC	FNDC	FNDC	FNDC	FNDC	HCV Est. FNDC		OVERALL	FNDC	Rating
										road)										FNDC								FNDC		
Youngs Road		2594	0	150		1	3	0	3	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7.00	1595	1746
Katavich Road Opara Road		1832 2083	1,705	1,959 572	254	2	0	1 2	2	0.90	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	6.90 6.90	1596 1597	893 1360
Donaldson Road		2085	100			1	0	2	1	1.90	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	6.90	1597	1500
Windy Hill Road		2583	13	420		1	0	2	2	0.90	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	6.90	1599	1538
Freese Park Road Tipene Road	+	1698 2445	121	135 524		1	1 0	0	2	1.80 0.80	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	6.80 6.80	1600 1601	894 1539
Opara Road		2083	778	1,156	378	2	0	2	0	0.75	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	6.75	1602	1361
Wairoa Stream Road Pukewhau Road		2517 2199	75	381 150		1	0	1	2	0.75	0	0	0	0	0	0	1 0	1 2	0	0	0	0	0	0	0	0	0	6.75 6.70	1603 1604	1540 1152
Lamb Road		1892	1,870	2,137	267	1	0	1	2	0.70	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	6.70	1604	1362
Proctor Road		2178	1,273	1,573	300	1	0	2	2	0.70	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	6.70	1606	1541
Mountain Road Wharekawa Road		2026 2561	3,894	316 4,194	300	1	0	2	1	0.70	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	6.70 6.70	1607 1608	1671 1672
Omapere Road		2077	1,179	1,530	351	2	0	2	0	0.65	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	6.65	1609	1363
Lewer Street Old Church Rd Service Lane		1902 3409	155	180		1	0	1	2	0.60	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	6.60 6.60	1610 1611	659 660
Porters Access Road		2457	0	532	532	1	0	2	0	1.60	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	6.60	1612	1153
Creamery Road		1618	928	, ,		1	0	1	2	0.60	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	6.60	1613	1364
Te Tio Road Moehau Road		2432 2017	3,806 415	4,127	321	3	0	2	0	0.60	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	6.60 6.60	1614 1615	1365
Pakaru Road		2123	6,373	6,673	300	2	0	2	0	0.60	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	6.60	1616	1543
Ruapekapeka Road Parapara-Toatoa Road		2275 2133	13,310 4,868	13,610 5,168	300 300	1	0	0	2	0.60	0	0	0	0	0	0	0	1	0	0	0	1	0	2	0	0	0	6.60 6.60	1617 1618	1544
Ohakiri Way		3300	0	270	270	1	0	0	2	1.50	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	6.50	1619	661
Motutoa Road Metcalfe Road		2023 2001	63 269	450	387	1	0	0	2	1.50 0.50	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	6.50 6.50	1620 1621	1154 1366
Orira Road		2089	2,555	2,953		1	0	2	2	0.50	0	0	0	0	0	0	0	1	0	0	0	0	0	0 0	0	0	0	6.50	1622	1367
Taita Road Baffin Street		2368 3511	4,268 680	, · · ·		1	0	1	2	0.50	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	6.50 6.50	1623 1624	1368 1748
Te Kowhai Point Road	<u> </u>	3362	000	442		2	0	2	2	0.50	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	6.45	1624	1748
Te Riha Roadway		2538	502	980		1	0	1	2	1.45	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	6.45	1626	1369
Creamery Road Wekaweka Road		1618 2535	2,249	2,954	705	1	0	2	0	1.40 2.40	0	0	0	0	0	0	1 0	0	0	0	0	0	0	0	0	0	0	6.40 6.40	1627 1628	1545 1546
Tapuhi Road		2384	10,633	11,088	455	1	0	1	2	0.35	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	6.35	1629	1674
Whangape Road Mihirau Road		2555 3170	10,623 634	10,997 784	374	1	0	0	1 2	0.35	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	6.35 6.30	1630 1631	1749
Puketawa Road		2192	0	195	195	1	1	0	2	0.30	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	6.30	1632	1371
Tipa Tipa Road Wekaweka Road		2444 2535	,			1	0	0	0	0.30	0	0	0	0	1	0	1	1	0	0	0	0	0	0	2	0	0	6.30 6.30	1633 1634	1372 1373
Auckland Block Road		2535	2,169	2,912		1	0	1	2	0.30	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	6.30	1634	1547
Paiaka Road		2120	3,772	4,072		1	0	1	2	0.30	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	6.30	1636	1548
Pokas Road Proctor Road	+	2170 2178	1,656 147	1,956 447	300 300	2	0	3	0	0.30	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	6.30 6.30	1637 1638	1549 1550
Rakautapu Road		2218	6,511	6,811	300	1	0	2	1	0.30	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	6.30	1639	1675
Somerville Road Happy Valley Road		3091 1734	2,063	2,363		1	0	1	0	0.30	0	0	0	0	0	0	1	1	0	0	0	0	0	2	0	0	0	6.30 6.30	1640 1641	1676 1750
Auckland Block Road		1/34	13	481		1	0	1 0	2	0.30	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	6.25	1641	1750
Windust Road		2582		210	210	1	0	1	2	0.20	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	6.20	1643	1155
Puketotara Road Upokorau Road	+	2196 2471	5,218 1,631			3	0	3	0	0.20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6.20 6.20	1644 1645	1374 1375
Munn Road		2028	2,084	2,384	300	1	0	1	0	0.20	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	6.20	1646	1552
Waikuku Road Paiaka Road		2495 2120	1,741 5,258	2,041		3	0	3	0	0.20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6.20 6.20	1647 1648	1553 1751
Ruapekapeka Road		2120	3,258		300	1	0	0	2	0.20	0	0	0	0	0	0	0	1	0	0	0	1	0	1	0	0	0	6.20	1648	1752
Te Tio Road		2432	3,392	3,695	303	3	0	2	0	0.20	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	6.20	1650	1753
Wharekawa Road Vujcich Road	+	2561 2481	5,057	5,280 150		2	0	2	1 2	0.20	0	0	0	0	0	0	1 0	1	0	0	0	0	0	0	0	0	0	6.20 6.15	1651 1652	1791 1677
Wharengaere Road		2562		593	300	1	0	1	2	0.15	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	6.15	1653	1678
Herbert Road Uruti Road	WAIARE	1757 3056		662 424		1	0	0	2	0.10	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	6.10 6.10	1654 1655	1679 1680
Owhata Road		2115				2	0	2	1	0.10	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	6.10	1655	1754
Porters Access Road		2457				1	0	2	0	1.05	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	6.05	1657	1554
Waikino Road	1	2493	102	402	300	2	0	1	1	0.05	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	6.05	1658	1555

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				RAMM DATA									27 of 29 Pr	inted on 19	0/06/2021					overing PG	E and TIE (	Catagoria						A	PEN	IDIX 2
					<b>`</b>		-				I	<b>a b b b</b>		<b>.</b>					ED DIWIF (C	overing PG		categories	5)							
						ault	Default	Default	Default	Factor of Importan	Factor of	Factor of Importan	Factor of Importan	Factor of Importan	Default	Default	Factor of Importan	Factor of Importan	Default	Default	Default	Default	Default	Default	Default	Default	Default	####		
۲ 🕨		<b><i><b></b></i></b>	<u>ر</u> ک	· < 🕨	्र <b>म</b> ्		Denutin	Delutit	Delutit	ce	ce	ce	ce	ce	Denun	Deluun	ce	ce	Delutit	Delutit	Delutit	Deluun	Delutit	Delutit	Delutit	Delutin	Deruurt			
		$\sim$				Data	Data	Data	Data	200%	200%	100%	100%	100%	Data	Data	100%	100%	Data	0	0	Data	Data	Data	Data	Data	Data			
Range of Data					14 - 2671	0 - 5	0 - 5	0 - 5	0 - 5	0 - 13	0 - 10	0 - 3	0 - 5	0 - 5	0 - 4	0 - 4	0 - 2 open plains	0 - 2 More than 2	0 - 5	0 - 0	0 - 0	0 - 2	0 - 2	0 - 2 No Resilience	0 - 2	0 - 2	0 - 3	1 - 31	1 - 1810	1 - 1031
					-	0	25	20	30	0.025	0	0	0	0	0	0	or coastal some land	0-1 events	0	\$3,000	\$3,000,000	on this	On Resilience	Doad On Resilience	No	0	0	0	-	
					ŀ	6	26 30	21 45	31 38	0.075	0	0	0	0	2	2	fosturer in land	Less than one	1-2 2-3	\$9,000 \$30,000	\$975,000 \$375,000	Road but no Road	Road but no	Road	YES	1-2 >3	1 2	1	1	
					ŀ	11	40	85	50	0.150	0	1	0	0	3	3	onclosed	event even	3-5	\$106,000	\$112,500	Sections	Cortions	Sections			3	3	1	
					9,477	26	50	185	68	0.300	0	0	0	0	4	4			5-7	\$371,000	\$37,501						4	4	1	
						50	70	350	100	0.350	1	2	1	1	5	5			7-10	\$1,295,000	\$37,500						5	5		
						SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCO RE Annual	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	PRIORITY	PRIORITY
						HCV 5 day	нсv	LDV 5 day	Speed of	Houses	Schools	Maraes	Churches	Health	Ecological	Horicul-	Location	Frequency	Longevity	Mntence	Estimated	Tourism	Disaster	Network	Logging	Years of	Milk sheds	FNDC	FNDC Road	Circular
Road Name	Location	Road ID	Start	End	Length	AADT FNDC	Speed FNDC	AADT FNDC	LDVs (Est) FNDC	within (300m	FNDC	FNDC	FNDC	Centers FNDC	Areas FNDC	tural areas FNDC	of Roadway	of rain days	of HCV route	Cost Prev 3 year	Sealing Cost	Route FNDC	Resilience FNDC	Resilience FNDC	Route FNDC	Logging / HCV Est.	FNDC		Rating FNDC	16/04 Rating
						PNDC	FNDC	FINDC	FNDC	from				FNDC	FNDC	FNDC	FNDC	FNDC	FNDC	av./km	FNDC	FNDC	FNDC	FNDC	FNDC	FNDC		OVERALL	FNDC	Nating
										road)										FNDC								FNDC		
Parrot Road Uruti Road	_	3218		_		1	0	1	2	0.05	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	6.05	1659 1660	1681 1682
Matawera Road		1978				1	0	1	2	0.05	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	6.05 6.05	1661	1755
Owae Road		2114		· · ·		1	0	0	2	0.05	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	6.05	1662	1756
Puia Street Zidich Road	_	2187				1	0	2	2	0.05	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	6.05 6.05	1663 1664	1757
Okaka Road		2062	2 1,81	4 2,014	4 200	1	0	0	2	1.00	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	6.00	1665	1156
Rangi Point Road Shepherd Road	FERN FLAT	2223				2	0	1 2	2	1.00	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	6.00 6.00	1666 1667	1376 1377
Wekaweka Road		2535	<u>´</u>			1	0	1	2	1.00	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	6.00	1668	1378
Creamery Road		1618		5 623		1	0	1	0	1.00	0	0	0	0	1	0	1	1	0	0	0	0	0	0	0	0	0	6.00	1669	1556
Waimamaku Beach Road Katavich Road		2498				2	0	2	0	0.00	0	0	0	0	1 0	0	0	1 2	0	0	0	0	0	0	0	0	0	6.00 6.00	1670 1671	1557 1683
Mangu Road		1937		0 140		1	0	0	2	0.00	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	6.00	1672	1684
Tamaho Road Wekaweka Road		2375		0 150		1	1	0	2	0.00	0	0	0	0	0	0	1	1 0	0	0	0	0	0	0	0	0	0	6.00 5.95	1673	1759 1379
Kokinga Point Road		1868	8 7	0 220	0 150	1	0	0	2	0.90	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	5.90	1675	1157
Owae Road Beckham Road	_	2114		0 1,462		1	0	0	1 2	0.90	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	5.90 5.85	1676 1677	1558 1380
Simmental Lane		3142		0 400		1	0	1	1	1.85	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	5.85	1678	1381
Waikino Road		2493	· · ·	· · ·		2	0	1	0	0.80	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	5.80 5.80	1679 1680	1382
Rakautapu Road Upokorau Road		2471	´	<u>/</u> /	7 286	2	0	2	0	0.80	0	0	0	0	0	0	2	1 1	0	0	0	0	0	0	0	0	0	5.80	1680	1685
Waikino Road		2493	· · · ·	· · ·		2	0	1	1	0.75	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	5.75	1682	1560
Waikino Road Mitchell Road	-	2493				2	0	1 0	0	0.70	0	0	0	0	1 0	0	0	1	0	0	0	0	0	0	0	0	0	5.70 5.70	1683 1684	1158 1383
Pukemiro Road		2188			7 300	1	0	1	0	0.70	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	5.70	1685	1686
Warner Road Windy Hill Road	+	2528				1	0	1 2	0	0.70	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	5.70 5.70	1686 1687	1687 1688
Matawera Road		1978	8 6,13	7 6,363	3 226	2	0	0	2	0.65	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	5.65	1688	1159
Raparapa Road Curtis Road		223		6 700 0 811		2	0	0	2	0.65	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	5.65 5.65	1689	1384 1561
Okaka Road		2062		-		1	0	0	2	0.65	0	0 0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	5.65	1691	1562
Orira Road Davis Road		2089	· · ·	<u>´</u>		1	0	2	1 2	0.65	0	0	0	0	0	0	0	1 2	0	0	0	0	0	0	0	0	0	5.65 5.60	1692 1693	1563 662
Waikino Road		2493	´	<u>/</u>	3 300	2	0	1	0	0.60	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	5.60	1693	1160
Wekaweka Road		253				1	0	1	2	0.60	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	5.60	1695	1161
Koutu Point Road Rakautapu Road		187				1	0	1 2	2	0.60	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	5.60 5.60	1696 1697	1564 1565
Te Umuhuki Road		1789	9 33	2 781	1 449	1	0	0	2	1.55	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	5.55	1698	1385
Nga Karoa Road Waikino Road		301				2	0	0	2	0.50	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	5.50 5.50	1699 1700	1162 1163
Waikerikeri Road		2492	2 59	3 1,206	5 613	1	0	0	1	0.50	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	5.50	1701	1689
Carr Road Te Tio Road		1584		0 203		1	0	1	0	0.45	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	5.45 5.45	1702 1703	1566
Tapuhi Road		2384	4 8,99	5 9,491	1 496	1	0	1	1	0.45	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	5.45	1704	1760
Miro Place Te Tio Road	OMAPERE	3339		0 200		1	0	0	2	1.45 1.45	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	5.45 5.45	1705 1706	895 1690
Mangapupu Road		1931				1	0	1	2	0.40	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	5.45	1706	1386
Carr Road		1584	_	<u>´</u>		1	0	1	0	0.40	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	5.40	1708	1691
McDonalds Road Range Road	OROMAHO	E 1990 2224				1	0	1 2	2	0.35	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	5.35 5.35	1709 1710	1568 1692
Pokas Road		2170	0 3,04	0 3,326	5 286	1	0	1	2	0.35	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	5.35	1711	1761
Hongi Street Raparapa Road		178		0 640		2	0	1	1 2	0.30	0	0	0	0	0	0	0	1	0	0	0	0	0	1 0	0	0	0	5.30 5.30	1712 1713	1164 1387
Wekaweka Road		223		_	7 300	1	0	1	2	0.30	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	5.30	1713	1387
Creamery Road		1618				1	0	1	1	0.30	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	5.30	1715	1693
Inksters Road Maromaku-Towai Road		1/9/		_		0	0	3	1	0.30	0	0	0	0	0	0	2	1 1	0	0	0	0	1	0	0	0	0	5.30 5.30	1716 1717	1694 1695
Pukemiro Road		2188	8 3,27	0 3,570	0 300	1	0	1	0	0.30	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	5.30	1718	1696
Rakautapu Road Tipa Tipa Road	+	2218				1	0	2	0	0.30	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	5.30 5.30	1719 1720	1697 1698
Pokas Road		2170	0 2,54	4 3,023	3 479	1	0	1	1	1.25	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	5.25	1721	1569
Okaka Road		2062	2 84	2 1,248	3 406	1	0	0	2	0.25	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	5.25	1722	1762

												:	28 of 29 Pr	inted on 19	/06/2021													A	PEN	DIX 2
			RA	MM DATA													FNDC UN	ISUBSIDISI	ED DMF (C	overing PG	F and TIF	Categories	s)							
										Factor of	Factor of			Factor of			Factor of													
ج <b>ا</b>		۲ <b>۲</b>	4	4	_ ا <b>ل</b>	ault	Default	Default	Default	Importan ce	Importan ce	Importan ce	Importan ce	Importan	Default	Default	Importan ce	Importan ce	Default	Default	Default	Default	Default	Default	Default	Default	Default	####		
		$\sim$	$\sim$	$\checkmark$		Data	Data	Data	Data	200%	200%	100%	100%	100%	Data	Data	100%	100%	Data	0	0	Data	Data	Data	Data	Data	Data			
Range of Data					14 - 2671	0 - 5	0 - 5	0-5	0-5	0 - 13	0 - 10	0 - 3	0 - 5	0 - 5	0 - 4	0 - 4	0 - 2	0 - 2	0-5	0 - 0	0 - 0	0 - 2	0 - 2	0-2	0-2	0 - 2	0-3	1 - 31	1 - 1810	1 - 1031
						0	25	20	30	0.025	0	0	0	0	0	0	open plains or coastal	More than 2 events per	0	\$3,000	\$3,000,000	on this	NO RESILIENCE Road	NO RESILIENCE Road	No	0	0	0		
						1	26	21	31	0.075	0	0	0	0	1	1	some land featurer in land	0-1 events	1-2	\$9,000	\$975,000	Road but no	On Resilience	On Resilience		1-2	1	1		
						6	30	45	38	0.100	0	0	0	0	2	2	onclosed	event even	2-3	\$30,000	\$375,000	Sections	Fortions	Sections	YES	>3	2	2	-	
					9,477	26	40 50	85 185	50 68	0.150	0	0	0	0	3	3			3-5	\$106,000 \$371,000	\$112,500 \$37,501						3	3	-	
					5,4//	50	70	350	100	0.350	1	2	1	1	5	5			7-10	\$1,295,000	\$37,500						5	5	1	
						SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	PRIORITY	PRIORITY
						HCV 5 day	нсу	LDV 5 day	Speed of	Houses	Schools	Maraes	Churches	Health	Ecological	Horicul-	Location	Frequency	Longevity	Annual Mntence	Estimated	Tourism	Disaster	Network	Logging	Years of	Milk sheds	FNDC	FNDC Road	Circular
Road Name	Location	Road ID	Start	End	Length	AADT	Speed	AADT	LDVs (Est)	within	FNDC	FNDC	FNDC	Centers	Areas	tural areas	of	of rain	of HCV	Cost	Sealing	Route	Resilience	Resilience	Logging Route	Logging /	FNDC	mbe	Rating	16/04
						FNDC	FNDC	FNDC	FNDC	(300m				FNDC	FNDC	FNDC	Roadway	days	route	Prev 3 year	Cost	FNDC	FNDC	FNDC	FNDC	HCV Est.			FNDC	Rating
										from road)							FNDC	FNDC	FNDC	av./km FNDC	FNDC					FNDC		OVERALL FNDC		1
Baker Road	OPONONI	1519	0	43	43	1	0	2	1	0.20	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	5.20	1723	1165
Mudgway Road	or on one of	2027	265			1	1	0	2	0.20	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	5.20	1724	1570
Tracey Road		2458	<u> </u>			1	1	0	2	0.20	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	5.20	1725	1571
Puketotara Road Range Road		2196	10,478	10,778	300	2	0	3	0	0.20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5.20 5.20	1726 1727	1699 1700
WAA HOTERENE ROAD	MATAWAIA	1800	642	886	244	1	0	0	2	0.20	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	5.20	1728	1763
Wharekawa Road Cherrington Road		2561 1593	2,071	2,371		1	0	0	2	0.20	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	5.20 5.15	1729 1730	1764 1572
Goodwins Road		1709	905	1,055	150	1	0	0	2	0.15	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	5.15	1730	1572
Wekaweka Road		2535	4,142	4,442	300	1	0	1	2	0.15	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	5.15	1732	1701
Wekaweka Road Te Huahua Road		2535 2413	4,964	5,264	300	2	0	1 2	0	0.15	0	0	0	0	1 0	0	0	1	0	0	0	0	0	0	0	0	0	5.15 5.15	1733 1734	1702 1765
Waikino Road		2493	5,772	6,072	300	2	0	1	1	0.15	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	5.15	1735	1766
Ranui Road Lamberg Road		2234 1895	1,242	1,883	641	2	0	1 0	0	1.05	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	5.05	1736 1737	1574 1703
Orira Road		2089	1,162		. 300	1	0	2	0	0.05	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	5.05	1738	1704
Ruapekapeka Road Cox Road	_	2275 3062	<u> </u>	,	975	4	2	3	3	2.45	0	0	0	0	0	0	2	1 2	0	0	0	1 0	0	1 0	0	0	0	19.45 5.05	1739 1740	255 1767
Fraser Road		1696	0	25	25	1	0	0	0	0.05	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	5.05	1740	1768
Goshen Valley Road		1710	2,020	2,257	237	1	0	0	0	0.05	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	5.05	1742	1769
Paraha Road Pukewhao Road	-	2131 2198	94	394 1,835	300	1 3	0	0	2	0.05	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	5.05 5.05	1743 1744	1770 1771
Mangapara Road	WHIRINAKI	3212	48	375	327	1	0	1	0	0.05	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	5.05	1745	1792
Tipa Tipa Road Mangamuka Church Road		2444		6,648 460	300	1	0	0	0	0.05	0	0	0	0	0	0	1	1	0	0	0	0	0	0	2	0	0	5.05 5.00	1746	1793 1389
Stewards Road		2345	0	483	483	1	1	0	2	1.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5.00	1748	1575
Waitapu Creek Road Pa Road		3340	930	84 958	84	1	0	0	2	0.00	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	5.00 5.00	1749 1750	1705
Taita Road		2368	5,083	5,657	574	1	0	1	0	0.90	0 0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	4.90	1750	1576
Wekaweka Road Mahina Road	_	2535 3068	10,381	10,757	376	1	0	1 0	0	0.90	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	4.90 4.85	1752 1753	1577 1390
Takahue Domain Road		2370	0	310	310	1	0	0	2	0.80	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	4.80	1755	1390
Reed Road		2248	519	670	151	1	0	0	0	0.70	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	4.70	1755	1392
Taikirau Road Perry Road		3252	1,530	412	355	2	0	0	0	0.65	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	4.65 4.60	1756 1757	1578 1393
Wrathall Road		3097	710			1	0	0	0	1.50	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	4.50	1758	896
Morey Road Orira Road		2021 2089	572	655 3,815	83	1	0	0	2	0.45	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	4.45	1759 1760	897 1579
Wekaweka Road		2535		10,356	5 770	1	0	1	0	0.40	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	4.40	1761	1706
Orowhana Road Tahiwi Road		3059 2361	0	422		1	0	0	0	1.35 1.35	0	0	0	0	0	0	1	1 0	0	0	0	0	0	0	0	0	0	4.35 4.35	1762 1763	1394 1707
Taita Road		2361			. 239	1	0	1	0	0.30	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	4.35	1763	1166
Te Umuhuki Road		1789 2481	0	191		1	0	0	2	0.30	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	4.30	1765	1395
Vujcich Road Wekaweka Road		2481	1,131 10,963	1,281 11,263		2	0	1	0	0.30	0	0	0	0	0	0	0	1 0	0	0	0	0	0	0	0	0	0	4.30 4.30	1766 1767	1396 1580
Wekaweka Road		2535	11,523	11,823	300	1	0	1	0	0.30	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	4.30	1768	1581
Pirikaha Road Tipene Road	_	2165				1	0	0	0	0.30	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	4.30 4.30	1769 1770	1708 1709
Yuretich Road		2595	<u> </u>			1	0	0	0	0.30	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0 0	4.30	1771	1710
Smith Deviation Road		2325 2165				1	0	0	2	0.30	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	4.30	1772	1773 1582
Pirikaha Road Taita Road		2165				1	0	1	0	0.20	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	4.20 4.20	1773 1774	1582
Ngawhitu Road		2044	2,138	2,438	300	1	0	0	2	0.20	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	4.20	1775	1774
Motukiore Road Owae Road		2025		13,217 2,368	300 300	1	0	0	0	0.20	0	0	0	0	0	0	1 2	1	0	0	0	1 0	0	0	0	0	0	4.20 4.15	1776 1777	1794 1795
Owae Road		2114	3,104	3,404	300	1	0	0	0	0.15	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	4.15	1778	1796
Waikerikeri Road Extension Te Tio Road	_	3202 2432		239 7,829		1	0	0	0	0.15	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	4.15 4.10	1779 1780	1797 1397
Ruapekapeka Road		2432	<u> </u>			4	0	3	0	0.00	0	0	0	0	0	0	2	1	0	0	0	1	0	1	0	0	0	12.00	1780	1397
Waikino Road		2493	3,899	4,199	300	2	0	1	0	0.05	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	4.05	1782	1775
Windust Road Cumber Road Side Road	_	2582		403		2	0	1	0	0.05	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	4.05 4.00	1783 1784	1776 1777
Irvine Road		3117	0	150	150	1	0	0	2	0.00	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	4.00	1785	1778
Blue Gorge Road		3220	0	150	150	1	0	0	0	0.00	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	4.00	1786	1798

28 of 29 Printed on 19/06/2021

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													29 of 29 Pi	rinted on 19	/06/2021														PPEN	DIX 2
			R/	AMM DATA													FNDC UN	SUBSIDISI	ed DMF (C	overing PG	F and TIF (	Categories	\$)							
<b>.</b>		$\mathbf{}$	$\mathbf{V}$	$\mathbf{P}$	<b>.</b>	Data	Default Data	Default	Default Data	Factor of Importan ce 200%	Factor of Importan ce 200%	Factor of Importan ce 100%	Factor of Importan ce 100%	Factor of Importan ce 100%	Default Data	Default Data	Factor of Importan ce 100%	Factor of Importan ce 100%	Default Data	Default	Default	Default Data	Default Data	Default Data	Default Data	Default Data	Default Data	####		
Range of Data					14 - 2671	0 - 5	0-5	0-5	0-5	0 - 13	0 - 10	0-3	0-5	0-5	0 - 4	0-4	0 - 2	0 - 2	0-5	0-0	0-0	0-2	0 - 2	0-2	0-2	0 - 2	0-3	1 - 31	1 - 1810	1 - 1031
						0	25	20	30	0.025	0	0	0	0	0	0	open plains	More than 2	0	\$3,000	\$3,000,000	on this	NO RESILIENCE	NO RESILIENCE	No	0	0	0		
					F	1	26	21	31	0.075	0	0	0	0	1	1	some land	0-1 events	1-2	\$9,000	\$975,000	Road but no	On Resilience	On Resilience		1-2	1	1	1	
					F	6	30	45	38	0.100	0	0	0	0	2	2	inland	Less than one	2-3	\$30,000	\$375,000	Road	Road but no	Road	YES	>3	2	2	1	
					F	11	40	85	50	0.150	0	1	0	0	3	3	anciacad	CURPT CURPY	3-5	\$106,000	\$112,500	Sections	Cortione	Sortione			3	3	1	
					9,477	26	50	185	68	0.300	0	0	0	0	4	4			5-7	\$371,000	\$37,501						4	4	1	
					-,	50	70	350	100	0.350	1	2	1	1	5	5			7-10	\$1,295,000	\$37,500						5	5	1	
						SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	PRIORITY	PRIORITY
								1												Annual										
						HCV 5 day	нсу	LDV 5 day	Speed of	Houses	Schools	Maraes	Churches	Health	Ecological	Horicul-	Location	Frequency	Longevity	Mntence	Estimated	Tourism	Disaster	Network	Logging	Years of	Milk sheds	FNDC	FNDC Road	Circular
Road Name	Location	Road ID	Start	End	Length	AADT	Speed	AADT	LDVs (Est)	within	FNDC	FNDC	FNDC	Centers	Areas	tural areas	of	of rain	of HCV	Cost	Sealing	Route	Resilience	Resilience	Route	Logging /	FNDC		Rating	16/04
						FNDC	FNDC	FNDC	FNDC	(300m				FNDC	FNDC	FNDC	Roadway	days	route	Prev 3 year	Cost	FNDC	FNDC	FNDC	FNDC	HCV Est.			FNDC	Rating
								1		from road)							FNDC	FNDC	FNDC	av./km FNDC	FNDC					FNDC		OVERALL FNDC		
Webster Street		2533	58	84	26		-	1		<u> </u>	0			-	0							0		0	0	0	0		1787	1700
Webster Street Te Hunoke Road		2555	58	333		1	0	1	1	0.00	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	4.00	1787	1799 1583
Wekaweka Road		2535	13,105	13,405	300	1	0	1	0	0.70	ő	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	3.70	1789	1584
Whangape Track Road		3452	185	· · · ·	300	1	0	0	0	0.70	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	3.70	1790	1712
Tahiwi Road		2361	30	362	332	1	0	1	0	0.65	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	3.65	1791	1779
Frear Road		1697	57		300	1	0	0	0	0.60	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	3.60	1792	1585
Waiotu Road	_	2511	624			1	0	0	2	0.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.50	1793	1586
Whangape Track Road Te Tio Road		3452 2432	1,002	1,407	405	1	0	0	0	0.35	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	3.35 3.30	1794 1795	1713
Classen Road		2432	6,901 2,601	2,810	209	1	0	0	0	0.30	0	0	0	0	1	0	1	1	0	0	0	0	0	0	0	0	0	3.30	1795	1399 1800
Jamieson Road	RAWENE	1802	2,001	2,810		3	0	0	0	0.20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.20	1797	1800
Pokas Road	101112112	2170	1,975	2,275	300	1	0	1	0	0.15	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	3.15	1798	1802
Ramsey Road		2221	2,735	2,885	150	1	0	1	0	0.15	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	3.15	1799	1803
Karaka Road		1828	132			1	0	0	0	0.35	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	2.35	1800	1587
Mudgway Road		2027	0	187	187	1	0	0	0	0.30	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	2.30	1801	1588
Browns Road	TE IRENGA	1562	1,175	1,325	150	1	0	0	0	0.30	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	2.30	1802	1714
Wharepunga Road		2563	1,463	1,763	300 300	1	0	1	0	0.20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.20	1803	1806
Wharepunga Road Wharepunga Road		2563 2563	4,593	4,893 5,359		1	0	1	0	0.15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.15	1804 1805	1807 1808
Tracey Road		2503	1.450	1.600		1	0	0	0	0.15	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	2.15	1805	1808
Waihotu Road		3063	1,-750	379		1	0	0	0	0.00	0 0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	2.00	1807	1805
Whiu Road		3189	0	339		1	0	0	0	0.35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.35	1808	1780
Parkers Road		2137	2,432	2,732	300	1	0	0	0	0.20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.20	1809	1809
Old North Road Extension		3048	47	70	23	4	0	0	0	0.00	0	0	0					0	0									1.00	1810	1810

Appendix 3

# ouris Infrastructure Fund - Recommended Seal Extension Projects

(ranked as at 16/4/2021)

Road	From RP	To RP	Length	Comments
Bayly Road	0	981	981	Waitangi Mountain Bike Park
Te Paki Stream Road	0	3,738	3,738	Giant Te Paki Sand Dunes, Cape Rienga & Far North Cycleway (Cape Rienga to Rawene)
Haruru Falls Road	1,458	4,717	3,259	Te Araroa Trail (Cape Rienga to Bluff) & Waitangi Mountain Bike Park
Waiare Road	17,242	17,842	600	Puketi Forest Recreation Area
Matai Bay Road	3,940	5,260	1,320	Matai Bay Campsite, Karikari
Wreck Bay Road	0	586	586	Populat Ahaipara Beach Front Camp Site
Heath Road	0	1,689	1,689	Gumdiggers Park, Waiharara
Koutu Loop Road	0	3,452	3,452	Koutu Boulders (car park), Pakanae
McDonnell Road	0	686	686	Wairere Boulders, Horeke
Purerua Road	9,578	15,440	5,862	Marsden Cross Monument
Rangihoua Road	0	4,886	4,886	Marsden Cross Monument
Oihi Road	0	1,400	1,400	Marsden Cross Monument
Henderson Bay Road	0	5,689	5,689	Beach Camp site
Lake Road	0	155	155	Kaimaumau Public Toilets
Motuti Road	0	3,222	3,222	Motuti Marae & Roman Katholic Bishop Montpellier's bodily remains
Waioterama Gorge Road	6,411	9,682	3,271	Waioterama Falls, Omapere

FNDC Infrastructure Committee – 21 July 2021

FNDC 2021/24 Seal Extension Program

											NZTA DMI	(General Cir	cular 16/04)											
						Default	Default	Default	Default	Factor of Importanc e	Default	Default	Default	Default	Default	Default	0	5						
						Data	Data	0	0	100%	0	0	Data	Data	Data	Data								
		Range of Data				0 - 5	0 - 2	0 - 2	0 - 2	0 - 5	0 - 1	0 - 2	0 - 2	0 - 2	0 - 2	0 - 2	1 - 17	1 - 1031	]					
						o	0	100	50	0	0	0	o	open plains or coastal	More than 2 events per week	o	0							
						1	20	101	51	1	1	1	1	some land features likely to slow winds	0-1 events per week	1-2	1							
						6	50	300	70	2	3	3	3	inland enclosed valley	Less than one event every two weeks	>3	2							
						11				5							3							
						26				8							4							
		RAMM DATA				50				10							5							
Road Name	Location	TL Name	Start	End	Length	16/04 SCORE HCV 5 day AADT	16/04 SCORE HCV Speed	16/04 SCORE LDV 5 day AADT	16/04 SCORE Speed of LDVs (Est)	16/4 SCORE Houses / km (80m from	16/04 SCORE sensitive locations/k m	16/04 SCORE Ecological Areas / km	16/04 SCORE Horicul- tural areas/		16/04 SCORE Frequency of rain days	16/04 SCORE Longevity of logging	SCORE NZTA Circular 16/04	PRIORITY Circular 16/04 Rating	Notes	TCount Date	TCount RP	Traffic Count	HCV Count	Logging Route? (Y / N )
										road)	schools, marae, or		km		(>5mm)	route use	OVERALL							
West Coast Road		G01Bdge to Waihou Marae	-	25,810		5	2	1	2	5	0	0	C	1	1	2	19	) 1A	10x Houses inside 1km (includes Marae and Church)	22/12/2020		397	40	
West Coast Road		Waihou Marae to Church	25,927	2	287	5	2	1	2	5	0	0	0	1	1	2	19		10x Houses inside 1km (includes Marae and Church)	22/12/2020		397	40	
Purerua Road	TE TII	End of Seal to Taronui Rd int	9,578	-	654	5	2	2	2	3	0	2	. C	1	2	0	19	2	3x House inside 0.7km	5/01/2021		522	110	
Arawhata Road	TAIPA	Mangatete Heights to Wharf	285		969	2	2	1	2	5	0	1	1	2	2	0	18	3 3	23x Houses inside 1.3km	22/12/2020	360	162	10	
Aurere Beach Road	TAIPA	SH10 int. to past houses	0	300	300	5	2	2	2	5	0	0	0	1	1	0	18		5x House inside 0.4km	21/03/2020	80	461	78	
Wainui Road	WAINUI	Kaitaia-Awaroa Rd int. to Marae	0	354	354	5	2	2	2	5	0	0	0	1	1	0	18	5 4	4x House includsing Marae inside 0.3km	1/05/2014	est.	30	3	N

FNDC Infrastructure Committee – 21 July 2021

### Appendix 4

# FNDC 2021/24 Seal Extension Program

#### Unsealed Roads - Varied Lifecycles

Unsealed roads vary considerably in condition because they are exposed to sun, rain, wind and traffic. They pothole when wet, and when dry they become loose (unravel), corrugate, and create a dust nuisance.

Changes in surface condition are highly variable due to exposure to the natural elements and this is compounded further by traffic loads, which often fluctuate due to changing land use.

Grading of roads is an attrition-based maintenance treatment that, despite the best efforts by the grader driver, will always result in disturbance of the existing gravel being spilled from the ends of the grader blade.

Grading roads contributes to gravel loss costing Councils more money in the long run, so current maintenance strategies look to defer grading for as long as reasonably possible, with emphasis on localised pothole filling where practical.

#### New Specifications - Unsealed Road Wearing Course (UWC)

Different gravels have different uses with larger 'cleaner' stone used on logging routes due to its ability to support heavy loads. Routes mostly used by light vehicles suit smaller gravel sizes.

National industry standards now specify Unsealed Road Wearing Course (UWC). The new UWC replaces traditionally stony, loose, unsealed road gravels. UWC will help reduce the frequency of corrugations, minimise the extent of potholes and deliver a more consistent, smoother road surface with less grading costs.

National standards for aggregate on unsealed roads encourage the blending of materials in the gravel to improve cohesion. Some gravels can appear red or orange-brown and drivers have raised concerns about UWC gravels appearing muddy. Retaining and/or addition of clays, silts and other fine materials into the gravels is required to meet the UWC specifications.

Concerns sometimes raised over 'muddy' roads being unsafe to drive on when wet are taken seriously by Council staff. Where we receive reports of cars skidding in the mud, our engineers will conduct skid resistance and traction tests. Invariably, these tests show that braking and steering performance is the same, if not better, than on dry, loose, stony surfaces.

#### Natural Product - Gravel is natural and safe

Some people have raised concerns about the safety of roading materials. Gravel that is used in road construction is an inert, naturally occurring mineral and there is little evidence that rain runoff from unsealed roads contaminates waterways. Stormwater runoff can result in localised deposits of gravel at culvert outlets and on private properties. These deposits are not harmful to the health of people, crops or livestock. Where these deposits are assessed to be a nuisance or impact private property, they can be removed by Councils contractors.

If you still have concerns about the safety of these materials, please contact the Regional Council which has responsibility for air and water quality.

# NORTHLAND TRANSPORTATION ALLIANCE

R bart Gand Co KAPARA Whangarei Northland D QWAKA KOTAH

#### Environment – gravel roads are dirty

The exposed nature of unsealed roads means they are dirty when wet and dusty when dry. Dirty vehicles (dusty when dry, muddy when wet) is an unavoidable consequence of driving on unsealed roads.

We often get comments about 'clean' looking gravel vs 'muddy' looking gravel and the impact this has on road traction. Traditional stony and loose road gravels often make it difficult for vehicles to gain traction, particularly on inclines when conditions are dry. Traction is much less of a problem for new UWC road materials that appear bound and smooth in the dry and slushy during wet conditions. It is common that the top 30-40mm of freshly applied UWC gravel presents as 'muddy' during rain. This is superficial and reduces over time as the UWC gravel consolidates and wears in.

#### Vehicle Care – Punctures and Wear-&-Tear

Unsealed road conditions change rapidly, and all drivers should drive to the conditions.

Gravel road surfaces can be loose when dry, affecting vehicle traction and making punctures more common. It has been identified that some low-cost brands of tyres that are primarily rated for sealed road can be more susceptible to punctures.

Complaints of 'sharp' stones are taken seriously by the Council and all gravels used on our roads are tested for compliance by quarries and contractors. The Council also conducts verification testing on gravel when required. Differences in crushed stone often relates to the method of crushing (e.g. cone vs jaw) and the Council works closely with suppliers to ensure aggregate quality complies with national industry standards.

The blending of clays and fines materials to improve cohesion of UWC gravels provides smoother unsealed road surfaces. This reduces vehicle wear and tear. However, vehicle owners are encouraged to check their vehicle regularly and to undertake regular servicing to ensure vehicles are mechanically sound.

#### Summer Grading – grading dry roads

Sections of unsealed roads often become loose (unravel) over summer because there is not enough moisture in the fines to bind larger stones together. This unravelling causes rutting and corrugations.

Grading is an attrition-based maintenance treatment. Despite the best efforts by the grader driver grading unsealed roads will always result in disturbance of the existing gravel being spilled from the ends of the grader blade. This is further exacerbated in dry weather conditions.

Applying metal and grading hard, dry roads will cause further problems and usually results in an increase in road-user complaints.

# NORTHLAND TRANSPORTATION ALLIANCE

R for Band Con KAIPARA Whangarei Northland D WAKA KOTAH

Surface defects can only be effectively dealt with by cutting to a depth greater than the defect. Doing this while the road is dry only provides relief for a few days but then creates more unravelling and damage. That is why road users will often notice a reduction in grading or metalling over summer when roads are very dry.

Grading of dry roads creates increased dust nuisance and also accelerates gravel loss, costing Councils more money in the long run.

#### Grading with a Roller – Compaction

Wet-grade-roll treatments is up to 10x more expensive than normal grading, so it is done sparingly within budget constraints.

Wet-grade-roll is typically limited to hill sections that have traction difficulties and/or focused on unsealed roads with very high traffic use.

Compacted unsealed roads have a limited lifecycle before becoming loose (unravelling) and corrugating when dry or potholing when wet. A road that has been graded and compacted with a watercart and roller may last less than 3 months, depending on the type of gravel, the terrain and traffic volumes.

It is also common for the Regional Council to place water-take restrictions on many rivers and streams, during summertime periods, preventing Council from directing the Contractor to grade a road with a water cart and roller.

#### Health & Safety – dust and speed management

Vehicle speed and size are major contributors to road dust – the bigger and faster the vehicle, the more dust created.

A regional review of speed limit bylaws is currently underway, and communities will have an opportunity to provide input on proposed speed limit changes. Speed reductions will result in less road dust being created.

Councils work with forestry companies to manage the impact of trucks on log harvest routes. These companies are very aware of the impact their trucks have on unsealed roads and the dust they create. Many haulage operators have placed self-imposed speed restrictions on their drivers, including additional roadside warning signage and GPS vehicle tracking to educate drivers on slowing down in front of residential homes.

Council works with Forestry partners for summertime dust suppression, entering into co-funding agreements to assist in the application of dust suppression product in front of affected homes on some busier designated haulage routes.

# NORTHLAND TRANSPORTATION ALLIANCE

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#### Sealing of Roads - dust matrix

There are three funding options available to the Far North District Council for the sealing of roads:

- 1) Non-subsidised sealing (i.e. 100% funded from rates)
- 2) Subsidised sealing (i.e. 67% subsidised by Waka Kotahi NZTA [69% from 1 July 2021] )
- 3) Community Funded Sealing (i.e. Policy No. 4112).

The Far North District Council prioritises road sealing based on criteria that ranks the impacts of road dust according to the number of houses impacted and severity, as well as economic and other benefits.

#### 1. Non-subsidised sealing (i.e. 100% funded from rates)

The Dust Matrix measures 22 criteria relating to road sections (Treatment Lengths). Below are the 22 criteria we measure, including types and numbers of traffic movements and speeds, number of houses and distance from the road, the terrain/exposure of houses, and the function/hierarchy of the road, etc.

SCORE HCV 5 day AADT	HCV		SCORE Speed of LDVs (Est)		SCORE	SCORE Maraes	SCORE Churches		SCORE Ecological Areas			SCORE Frequenc y of rain days	of HCV	SCORE Annual Mintence Cost Prov 3 year ov./km	Estimated Scaling		Disaster	SCORE Network Resilience		10000-000	SCORE Milk sheds
	-	•	-	road <sup>a</sup> -				•													
3	4	3	4	7.40	0	D	0	0	1	1	1	2	0	0	0	D	0	0	0	0	0

There are more than 1,840 sites (treatment sections) creating in excess of 40,500 records.

Due to continuous updating of information, the rankings can change. The Far North District Council uses this tool to prioritise and select its annual road sealing programme based on the best information available at the time. This includes considering other works nearby and cost savings that may be possible by co-ordinating this work.

2. Subsidised Sealing (i.e. 67% subsidised by Waka Kotahi NZTA)

The Dust Matrix measures 11 criteria relating to Waka Kotahi's NZTA General Circular 16/04 criteria as shown in the table below.

			-							NZTA (Ge	eneral Circs	itar 16/04)				
Road Name	Road ID	Start	End	Length	16/04	16/04	16/04	16/04	16/4	16/04	16/04	16/04	16/04	16/04	16/04	SCORE
				15	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	SCORE	1.1
							in the second se	CONTRACT OF	Houses /	sensitive	Ecologica	Horicul-	Location	Frequenc	Longevit	NZTA
					HCV 5	HCV	LDV 5	Speed of	km	locations	Areas /	tural	of	y of rain	y of HCV	Circula
					day	Speed	day	LDVs	(80m	/km	km	areas /	roadway	days	route use	16/04
					AADT	- Second	AADT	(Est)	from	schools,		km		(>5mm)		OVERAL
	4		1. 10	1	-	-	10	100	(beon	marae, nr	1 10	-	1	-	1	
	1 2				1.		3			harnit						1

Its is increasingly difficult for the Councils to gain funding assistance from Waka Kotahi under that criteria, mainly due to the volumes of truck movements being lower than Waka Kotahi's requirements.

#### 3. Community Funded Sealing (Policy No. #4112)

The Far North District Council will consider sealing a section of road where 75% of property owners and/or ratepayers directly impacted by the work agree to fund the work.

# NORTHLAND TRANSPORTATION ALLIANCE

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#### Dust Suppression - Summertime treatments

The Far North District Council has a limited budget for the application of dust suppression products on sections of unsealed road during summer months. The Dust Matrix is used to select dust suppression sites based on the following four criteria:

- **1.** Target building is within 25m from the road
- 2. More than 130 vehicles per day
- 3. More than 30 trucks per day
- 4. Vehicle speed assessed at more than 65kph.

This product has a lifespan of around three months and is applied before Christmas.

The Council works with the forestry industry to co-fund the application of dust suppression products along key harvest routes.

The Far North District Council has identified over 150 sites across the district that meet its dust suppression criteria.

#### Dust Suppression - can be paid for by Individuals

The Far North District Council has agreed to support individuals who fall outside the criteria above by covering the cost of applying the dust suppression products when it undertakes its summertime work. The cost of the product is borne by the individual. Product to treat a 100m long x 5m wide stretch of unsealed road typically cost approximately \$750 - \$800 + GST based on current market rates.

Where the individual pays for the product, the Council will add this site to its work programme and pay for the contractors to apply it.

To arrange privately funded dust suppression, contact the Contractor directly:

Gravel Lock Ltd Anneke Koens Office Manager 021 506 337

### NORTHLAND TRANSPORTATION ALLIANCE

Patter fand Contained Whangarei Northland D QWAKA KOTAH

### 6 INFORMATION REPORTS

6.1 INFRASTRUCTURE AND ASSET MANAGEMENT (IAM) MONTHLY BUSINESS REPORT FOR MAY 2021

File Number:	A3254538
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 May 2021.

### TŪTOHUNGA / RECOMMENDATION

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

### TĀHUHU KŌRERO / BACKGROUND

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

### MATAPAKI ME NGĀ KŌWHIRINGA / DISCUSSION AND NEXT STEPS

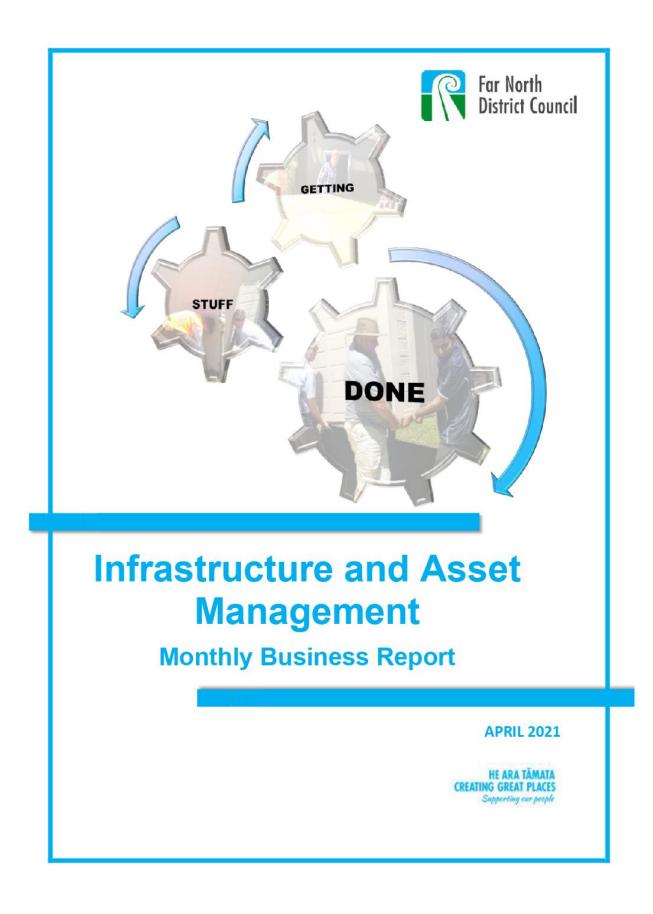
The information is attached in the form of a report.

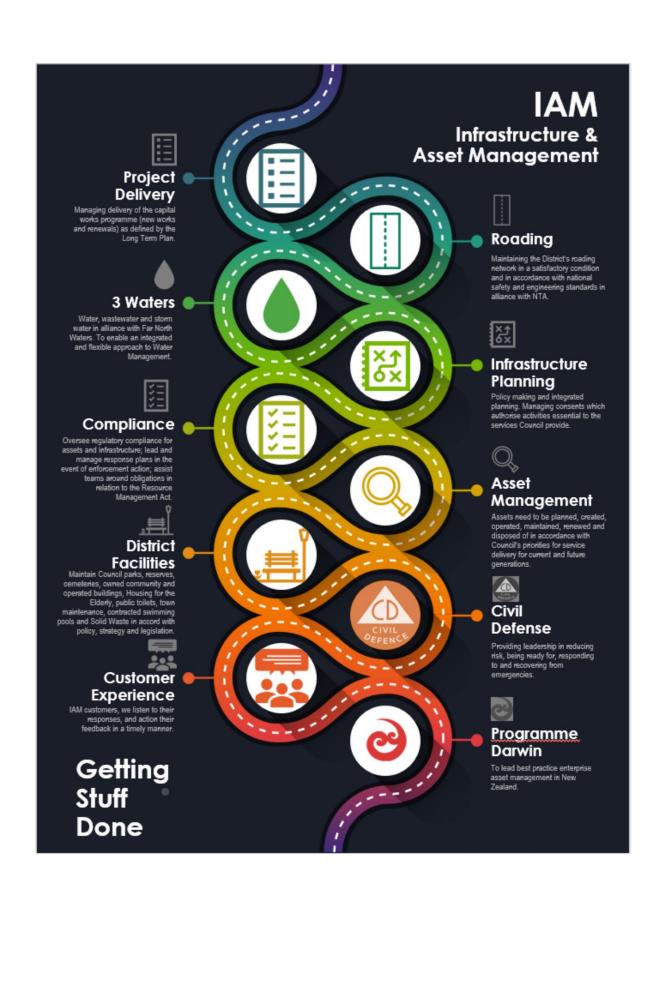
# PĀNGA PŪTEA ME NGĀ WĀHANGA TAHUA / FINANCIAL IMPLICATIONS AND BUDGETARY PROVISION

Nil.

### **ĀPITIHANGA / ATTACHMENTS**

1. IAM Business Report as at 31 May 2021 - A3257094 🗓 🛣





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# **SUCCESSES**



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## DISTRICT FACILITIES

Some fantastic feedback – check it out here.

## VENTIA

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

## FULTON HOGAN

More good work by the team at <u>Fulton Hogan</u>.



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CAPITAL SPEND ANALYSIS



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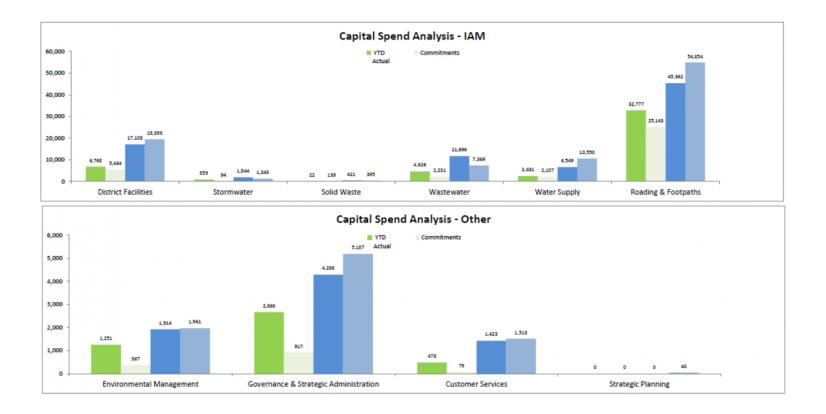
## Capital Spend Analysis as at 30-Apr-2021

	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	6,768	5,434	13,072	4,031	17,103	39.6%	19,399	34.9%	113%	2,296
Stormwater	859	94	1,179	666	1,844	46.6%	1,243	69.1%	67%	(602)
Solid Waste	22	139	325	96	421	5.2%	395	5.6%	94%	(26)
Wastewater	4,626	2,231	4,936	6,760	11,696	39.6%	7,369	62.8%	63%	(4,327)
Water Supply	2,431	2,107	4,495	2,054	6,549	37.1%	10,550	23.0%	161%	4,001
Roading & Footpaths	32,777	25,143	37,388	7,974	45,362	72.3%	54,854	59.8%	121%	9,493
IAM Total	47,484	35,148	61,395	21,580	82,975	57.2%	93,810	50.6%	113%	10,834
Environmental Management	1,251	367	0	1,914	1,914	65.3%	1,961	63.8%	102%	47
Governance & Strategic Administratio	2,666	917	2,334	1,952	4,286	62.2%	5,187	51.4%	121%	900
Customer Services	478	79	490	933	1,423	33.6%	1,513	31.6%	106%	90
Strategic Planning	0	0	0	0	0	0.0%	40	0.0%	0%	40
Other Total	4,395	1,363	2,824	4,800	7,623	57.6%	8,700	50.5%	114%	1,077
Total	51,878	36,511	64,219	26,380	90,599	57.3%	102,510	50.6%	113%	11,911

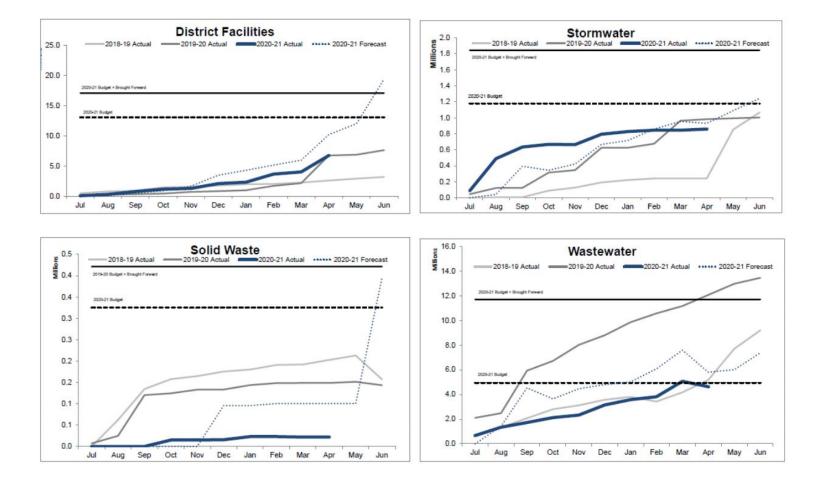
#### Comments:

The 'Total Annual Forecast' is what is expected to be spent by 30 June 2021.

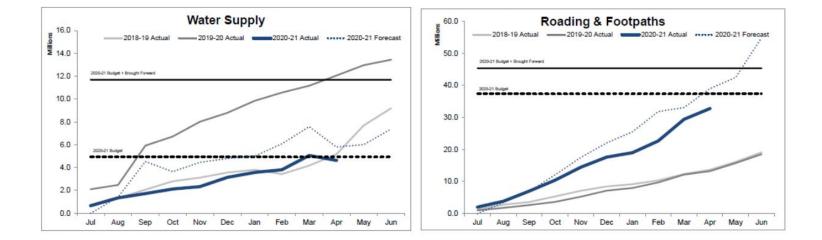
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## ROADING

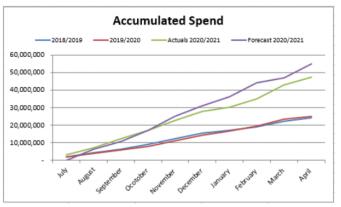
To maintain the District's roading network in a satisfactory condition and in accordance with national safety and engineering standards.

## EXECUTIVE SUMMARY

Waka Kotahi are presently considering the final submissions for the Maintenance, Operations and Renewals Programmes (MO&R). Any final submissions on the Council's Capital Improvements Programmes are to be submitted by 21st May and will be considered by Waka Kotahi in June. This will include the prioritisation process of major Regional projects by the RTC following consideration of the RLTP consultation feedback received at a meeting scheduled for 11<sup>th</sup> May 2021. Final approval of the NLTP programme will be considered by the Waka Kotahi Board by late August and the final approved NLTP is due to be published by early September 2021.

As shown in the graph below, transport works delivery continues to track well, with expenditure to the end of April (\$47.5m) nearly double that of the same period in each of the last two financial years, with \$4.6m of work completed and invoiced in April.

### Full Year Comparison - Roading Expenditure



After a spike in Resource Consent applications requiring transportation team input in March, application numbers dropped down to 28 in April (vs. 12 month rolling average of 36) allowing the team to clear some backlog with 48 applications responded to.

Fullers (Hokianga Ferry Operator) have completed the implementation of both their Electronic Ticketing system on the service and the installation of CCTV on the vessel.

The overall number of Customer Interactions (CIs) has reduced by over 14% compared to March with over half of this reduction directly attributable to improved communication and education with the FNDC call centre. The planned workshop with the NTA/FNDC Maintenance & Customer Team members focussing on CIs and customer responsiveness was held on Thursday 15th April focussing on completeness of communication with the customer (when requested) and targeted improvement in response timeframes.

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## 2021/24 AMP DEVELOPMENT PROGRESS

Waka Kotahi are presently considering the final submissions for the Maintenance, Operations and Renewals Programmes (MO&R), with the following feedback provided by Waka Kotahi as part of their review:

"This AMP is assessed as an excellent example of a Strategic Case, Programme Business Case (PBC), Detailed Business Case.

The in-depth analysis of: Demand and Growth, Problems Benefits and Consequences, Root Cause Analysis, Option development, Low Cost Low Risk (LCLR) etc. provide sound evidence that the Northland Network is being managed with sound asset management principles. (Holistic, Systematic, Systemic, Risk based, Optimal & Integrated.)

Section 4.17 State of the Network provides excellent modelling analysis and options assessment for the sealed pavement.

The PBC with; Root Cause analysis, Option Development and Assessment provide excellent evidence using PMRT and Peer Group comparison analysis and discussion.

The Principal Structures Engineer has reviewed the wc215 & 216 Programmes in depth with the AO consultant and made some suggestions to the programme which have been agreed.

NTA have been consistently diligent with completing and documenting the NZTA 2018/21 Funding conditions."

Any final submissions on the Council's Capital Improvements Programmes are to be submitted by 21st May and will be considered by Waka Kotahi in June. This will include the prioritisation process of major Regional projects by the RTC following consideration of the RLTP consultation feedback received.

Final approval of the NLTP programme will be considered by the Waka Kotahi Board by late August and the final approved NLTP is due to be published by early September 2021.

# DEVELOPMENT OF THE DRAFT REGIONAL LAND TRANSPORT PLAN 2021/2027 (RLTP) and REGIONAL PUBLIC TRANSPORT PLAN (RPTP)

The Regional Transport Committee will formally deliberate on the submissions on Tuesday 11th May 2021.

On competition of this process, staff will make the necessary changes to both Plans and table these at the June 2021 RTC meeting with a recommendation they be approved for forwarding to the Northland Regional Council for their approval for submission to Waka Kotahi by 30 June 2021.

## CENTRAL GOVERNMENT POLICY SUBMISSIONS

While there were no Central Government submissions in the past month, Waka Kotahi NZTA have formally announced the commencement of a significant speed limit review consultation process for several sections of Northland State Highways.

For more information and to subscribe to updates follow this link.

# MBIE WORKER REDEPLOYMENT PROGRAMME (ORIGINAL \$2.2M + \$2M STORM VARIATION)

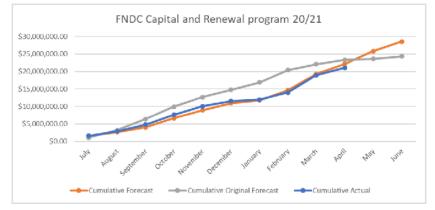
As reported in February most of the original programme is now complete. Work on the roading, parks and flood mitigation work covered by the \$2m storm funding component continues through until the end of May 2021.

A final project summary report summarising all completed funding works and related social procurement objective achievements is to be produced on completion of the remaining activities (end of June 2021).

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## FNDC TRANSPORT CAPITAL PROGRAMME DELIVERY

With two months remaining in this financial year, delivery of the capital works programme remains on track with forecast, and significantly ahead of the same period in the two previous financial years.



## Projects started in April

Category	Sub activity	Location
341 - Low-Cost Low Risk	Lighting	Various District Roads
341 - Low-Cost Low Risk	New Footpath	Kaikohe-Hokianga Ward: Horeke Rd to Cemetery 294-330
341 - Low-Cost Low Risk	New Footpath	Kaikohe-Hokianga Ward: Kohukohu Road Manning to Marriner
New Footpaths - Unsubsidised	New Footpath	Kaikohe-Hokianga Ward: Kohukohu Road Manning to Marriner

#### Projects due to start in May

Category	Sub activity	Location
140 - Minor Events	Resilience	Waikare Road - various locations
341 - Low-Cost Low Risk	New Footpath	Kaikohe-Hokianga Ward: Kaikohe Footpath - Taheke Road to Orrs Road eastbound
341 - Low-Cost Low Risk	New Footpath	BOI-Whangaroa Ward: Te Taipui Rd to Matauri Bay School Link
341 - Low-Cost Low Risk	Resilience	Powell Road RP209
341 - Low-Cost Low Risk	Resilience	Powell Road RP92-169

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## Significant Projects

Council	Category	Sub- activity	Location	% Complete	Monthly	Next month planned activities
FNDC	341 - Low- Cost Low Risk	Bridge	Otaua Road M28 N28	93%	As-builts and Ramm data done and received Practical Completion	Defects liability period
FNDC	341 - Low- Cost Low Risk	New Footpath	Te Hiku Ward: Donald Ln to WINZ on N Park Drive	100%	Complete	Complete
FNDC	341 - Low- Cost Low Risk	Resilience	Panguru Road	97%	Complete	Complete but some minor defects to be addressed
FNDC	341 - Low- Cost Low Risk	Safety	Route 1 Kaitaia- Ahipara (Kaitaia Awaroa Rd)	86%	Complete	Complete
FNDC	341 - Low- Cost Low Risk	Safety	Kaitaia-Awaroa Rd RP3200	100%	Complete	Complete
FNDC	341 - Low- Cost Low Risk	Safety	Kaitaia-Awaroa Rd RP5690	100%	Complete	Complete
FNDC	341 - Low- Cost Low Risk	Safety	Route 7 Matauri Bay Loop Roads	100%	Complete	Complete
FNDC	341 - Low- Cost Low Risk	Safety	Route 5 Taipa- Kaitaia (Oruru Rd, Fairburn Rd & Peria Rd)	a (Oruru airburn Rd 100% Complete		Complete
FNDC	341 - Low- Cost Low Risk	Safety	Route 4 Kerikeri- Okaihau (Wiroa Rd, Waiare Rd, Wehirua Rd & Kerikeri Rd)	100%	Complete	Complete
FNDC	341 - Low- Cost Low Risk	Safety	Route 2 Puketona Junc- Ohaewai (Te AhuAhu & Old Bay Roads)	100%	Complete	Complete
FNDC	341 - Low- Cost Low Risk	Safety	Okaihau Triangle between SH1, SH10 and the Mungamuka's			Complete all sign installation and road marking work

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Photo Wall





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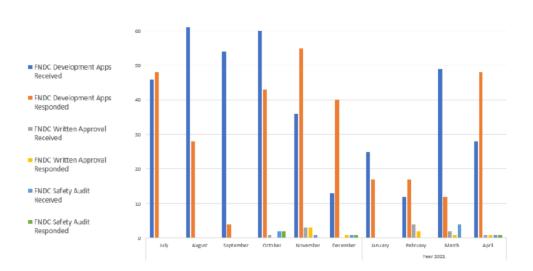
## **DEVELOPMENT APPLICATIONS (Transportation)**

After March's lift in application numbers (49 vs. 12 month rolling average of 36), April's application numbers reduced to 28 allowing the team to focus on processing a significantly higher number of responses than previous months (48).

Recruitment activities are to commence in late May for a new Senior Development Engineer (Transportation) and Graduate Engineer to further improve service quality and timeframes in this area.

			FNDC							
		Develo	pment Apps	Writte	n Approval	Safety Audit				
		Received	Responded	Received	Responded	Received	Responded			
	October	0	0	0	0	0	0			
Year 2019	November	12	2	0	0	0	0			
	December	4	12	0	0	0	0			
	January	13	4	0	0	0	0			
	February	17	8	0	0	0	0			
	March	24	34	0	0	1	1			
	April	17	16	2	1	0	0			
	May	34	31	2	3	0	0			
Year 2020	June	28	24	2	2	0	0			
tear 2020	July	46	48	0	0	0	0			
	August	61	28	0	0	0	0			
	September	54	4	0	0	0	0			
	October	60	43	1	0	2	2			
	November	36	55	3	3	1	0			
	December	13	40	0	1	1	1			
	January	25	17	0	0	0	0			
	February	12	17	4	2	0	0			
	March	49	12	2	1	4	0			
	April	28	48	1	1	1	1			

FNDC Development Applications (Transportation)



## HOKIANGA FERRY (KOHU RA TUARUA)

Fullers (the Operator) have completed the implementation of their Electronic Ticketing system on the service and the installation of CCTV on the vessel.

Fullers have reported that in general the traveling public's attitude to compliance with the requirement to wear a face covering on public transport continues to be poor under alert level 1.

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There have been two occurrences of theft of cash (ticket takings) and tickets from the safe on board the vessel. One on the 16<sup>th</sup> March from and the other over Easter. An investigation into the issue is underway and a police report has been filed by the operator.

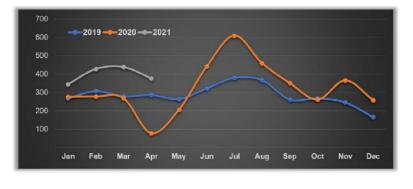
## UTILITY SERVICES - CAR (Corridor Access Request) & TMP (Traffic Management Plan)

- UFB2
  - o Haruru Falls area has almost been completed and reinstatement is well underway.
  - o Russell will be starting shortly.
- UFB 2+
  - o Opua is well underway and has been handed over in Rangitane and Okiato.
  - Rawene will be the next main area and Waipapa will also be completed shortly.
- Fibre Connections
  - o Now started in Paihia, and are ongoing still in all other townships
  - Street Light Contract
    - Kerikeri Road drilling work is underway.
- Sewer Upgrade
  - Klinac Lane and Waipapa is well underway with most of the drilling work completed.
- Roundabouts
  - Waipapa pavement work & all concrete work is completed. Grass berms will start shortly. The bridge beams have been installed to the new bridge on Mill Lane.
  - Puketona is nearing completion.
  - Kawakawa is nearing completion.
  - Kaitaia on SH 1 is complete.

## THE CUSTOMER EXPERIENCE

#### **Request for Service**

The overall number of Customer Interactions (CIs) has reduced by over 14%, month on month. More than half of this reduction directly attributable to improved communication and education with the call centre to address the previously reported issue related to the number of CIs received for the 'Roading Correspondence' category was being artificially inflated due to unsurety of where responsibility lay. Effectively, CIs were being allocated to the NTA when, following further investigation, it was established that the asset or issue in need of attention should be dealt with by others.



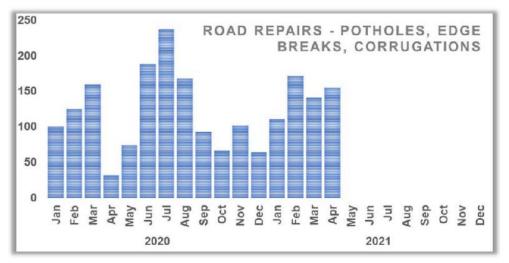


The planned workshop with the NTA/FNDC Maintenance & Customer Team members focussing on CIs and customer responsiveness was held on Thursday 15<sup>th</sup> April. As part of this review, external contractor contractual obligations were identified and reaffirmed.

The individual Network Supervisors will ensure this is closely monitored and added as a formal agenda item to the monthly contract meetings with similar principles to be followed internally. The focus has two main points:

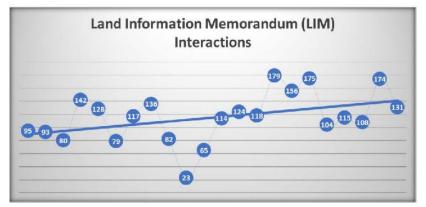
- Completeness of communication with the customer, when requested
- Targeted improvement in response timeframes

The year on year overall result for April was never predicted to be as low as last year, given the lockdown at the time. However, numbers do appear to be stabilising back to previous years for the category with the greatest number of interactions.



#### Land Information Memorandum (LIM)

While this has been a quieter month compared to March, it was still the 7<sup>th</sup> busiest since July 2019. It is also worth noting that, with three public holidays, this month only had 19 working (processing) days.





## 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 early in 2021.

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

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## **Project Name: Southern Animal Shelter**

## Project ID: 261012

## **Project Phase: Design**

Status Item	Current Status	Prior Status	Summary
Overall Project Status	Green	Green	Final Design received, building consent lodged.
Scope	Green	Green	Scope confirmed
Schedule	Green	Green	Schedule confirmed
Cost	Amber	Amber	Final cost and QS to be confirmed
Project Risk	Amber	Amber	Weather, contractor availability, material availability, Covid-19

## Monthly Summary:

Detailed design, engineering plans and reports received and building consent lodged, Quantity surveyor engaged, Resource Consent application on hold for Traffic Impact Assessment Report, NRC discharge consent approved.

Key Project Risks	Mitigation of I	Mitigation of Risk						
Funding		insure 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 o be constructed to comply with Animal Welfare Acts.						
Key Project Milestones	Expected		Status	Com	ment			
Confirm concept plan	End Septen	nber	On track	Conc	Concept Plan Confirmed			
Final Design	Mid Decem	ıber	Delayed		Final Design Confirmed, Building Consent Lodged			
Tender Award	Mid-June 2	021	Delayed	Tend	er award expected July 201			
Construction	Mid to Late	July 2021	Delayed	Construction expected August 2021				
Project Budget Status								
Approved Bu	Actual S	Spend to Date		Forecast Total Spend				
\$1,443,489.	\$90,036.45			\$1443,489.00				

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## **Project Name: Northern Animal Shelter**

## Project ID: 261011

## **Project Phase: Construction**

Status Item	Current Status	Prior Status	Summary
Overall Project Status	Green	Green	Construction underway
Scope	Green	Green	Scope confirmed.
Schedule	Green	Green	Project program confirmed.
Cost	Green	Green	Cost confirmed and approved
Project Risk	Green	Green	Weather, contractor availability, material and time delays due to Covid-19.

### Monthly Summary:

Concreted passageway and post footings, prepped the carwash slab and laid the blockwork ready to pour in May, prepped the kennels cannel drains ready to pour, fitted the wall wrap to the exterior walls and fitted the window tape, fitted roofing, flashings and spouting in place, fitted 95% of the wall cladding to admin building, fitted all metalwork items to both buildings, fitted the aluminium windows in place on-site. Metalbilt door ready to fit, All electrical prewires complete to both buildings, Hyvac units and ducting being place, Lined the truss walls to the admin kennel area, started lining the villaboard passage linings, fitted all the timber ceiling battens in place, prepped the rear covered way paving/paths ready to pour.

Key Project Risks	Mitigation of Risk						
Funding	Strict financi	Strict financial management. Funding no longer a risk due to MBIE funding					
Tender	No longer a i	risk Awardeo	to KPH Construction Li	mited			
Key Project Milestones	Expected		Status	Comment			
Tender award	Late Sept	ember	Awarded	Awarded to KPH Construction			
Construction	Currently under construction		On Track				
Project Budget Status							
Approved Budg	get	Act	ual Spend to Date	Forecast Total Spend			
\$1,470,989.00	D	Construction: \$1,126,739.67 Project Management Time, Professional Fees, & BC Fees: \$33,739.25		\$1,470,989.00			

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Project Phase: Design/Consents/Construction

### Project Name: TIF Toilets

## Project ID: 141539, 141537, 141538, 141581

Status Item	Current Status	Prior Status	Summary		
	Green	Green	Mitimiti: Construction is completed at Mitimiti & CCC achieved; Toilet is Operational		
	Green	Amber	Opononi: Construction has been completed and we are just working through CCC before facility is handed over to Operations		
Overall Project Status	Amber	Amber	Waitangi: Building Consent is approved; Resource consent is granted; this time-consuming process has caused considerable delays to programme.		
	Green	Amber	aruru Falls: Construction of prefabricated build is well underway. Once site blessing is completed, we can move forward with rvices and then delivery and installation.		
Scope	Green	Green	Waitangi: Scope is clear and approved by Stakeholders Mitimiti: Construction complete. Opononi: Scope is clear and defined. Haruru: Scope is clear and defined. We are taking power feed from pump station back to site to run pump.		
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 19 has also played its part in the programme delays.		
Cost	Green	Green	Mitimiti completed within budget, Opononi will follow suit. Haruru Falls pricing is in line with budgets. 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 19 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.		

Monthly Summary:

- Haruru Prefabricated Toilet has been constructed and is in the curing phase in the factory. Supply of timber for rafters has caused delays in final factory build phase
- Waitangi Toilet Building Consent & Resource Consent, Archaeological Authority are all approved. Best form of market approach is being finalised while we source funding shortfall
- Opononi construction completed, CCC underway

Key Project Risks		Mitigation of Risk			
Covid 19 Lockdown will lead to programm		Accept & Monitor.			
Waitangi Toilet - Budget		Budget shortfall may be abl	e to be addres	s with savings from other TIF Toilet builds	
Waitangi Toilet – Schedule – Iwi Engagem		Accept delays but look at po	ossible Direct A	ward of Contract to meet deadlines	
Waitangi Toilet – Service Connections			Water & Power costs out of	line with QS,	further budget implications
Key Project Milestones	Expected		Status		Comment
Waitangi Toilet – Iwi Engagement	July 2020		Completed		Archaeological Authority now approved by Heritage NZ
Opononi Construction	October 2020	)/ Feb 2021	Met – Late Start (November) & finish (May 2021)		Construction Completed
Haruru – Prefab installation	May 2021		Tracking behind schedule		Supply chain disruption – Timber products
Project Budget Status					
Approved Budget	Actual Spend to Date		Forecast Total Spend		
\$1,045,688 (combined)		\$647,	971.25	\$1,045,000 (combined)	

Ductort Di-			P Health & Safety Compliance	Project ID:	
Project Phas					
Status Item	Current Status	Prior Status	Summary		
Overall Project Status	Green	Green	Completed.		
cope	Green	Green			
chedule	Green	Green			
ost	Green	Green	Estimated final cost \$205K. Budget \$220K		
roject Risk	Green	Amber			
Monthly Summ					
			it forward by a month and took place during A &S at Work (Hazardous Substances) Regulation	oril 2021. Is 2017 and the Location Compliance Certificate has been issued.	
AN 2018			<image/>	<text><text><text><text><text><text><text><text><text><text><text><text><text><text><text></text></text></text></text></text></text></text></text></text></text></text></text></text></text></text>	
APR 2021 <b>Key Project Risk</b>	s			Mitigation of Risk	
mpact of Covid		ct schedul	e	Closed	
elays with mat	erial supply	during loc	k down	Closed	
imited number	of resource	s allowed	to work on site during lock down.	Closed	
	e in cost of r	naterials		Closed	
ossible increas		ks – CCC ne	ot issued	Closed	
	ting BC work			50 (1)	
elay in comple		ange in sc	ope	Closed	
Delay in comple Change in Test (	Certifier – ch		ope sioning new equipment into service	Closed	
52	Certifier – ch r supply whe	en commis			

Key Project Milestones	Expected		Status		Comment			
Compliance Audit	Dec 19		Completed					
Order chemical tanks	April 2020		Completed					
Install chemical tanks	May 2020		Completed					
Chlorine room fit out	June 2020		Completed					
Electrical fit out	July 2020		Completed					
Issuing of Location certificate	ng of Location certificate Sep 2020		Completed April 2021					
Project Budget Status	Project Budget Status							
Approved Budget		Actual Spend to Date			Forecast Total Spend			
\$220,000		\$202,897			\$205,000			

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#### Project Name: Kaitaia Water – Sweetwater Bore and Pipeline

Project ID: WAP0256

Project Phase	Project Phase: Concept Stage							
Status Item	Current Status	Prior Status	Summary					
Overall Project Status	Amber	Amber	end of June as previou	sly advised. The cur preferred route by er	n delayed due to the legal process status. The process will likely not be concluded by rent strategy is to award the Preferred Route in two Separable Portions with a ad of July. Additional work will be undertaken on the different route options to			
Scope	Amber	Green	Scope might change de	epending on the fina	I route under investigation			
Schedule	Red	Red	Delay in procurement successful. A formal pr		ents not being secured has increased as commercial negotiations have not been nat will delay award.			
Cost	Amber	Green			in budget allowance however delay to award and alternative routing will impact the ecrease in spend this FY.			
Project Risk	Amber	Amber	Property and Easemen district court is in favo		nmercial negotiations and Potential redesign to appease landowner if appeal to			
Route in two Sep and time implicat Actions for the pr Engage A Update t Property WSP to p Stellar to Manager Investiga Blessing · Ecologist Top Ener Property	<ul> <li>Update the cost and timeframes for the preferred route and northern route. This should also include a commentary on the procurement implications and risks.</li> <li>Property assessment on the Hawthorne Geddes route.</li> <li>WSP to provide an OOS for a detailed design of the northern route.</li> <li>WSP to provide an OOS for a concept design for the Hawthorne Geddes route.</li> <li>Stellar to undertake a review of the submitted tender programme by Ventia.</li> <li>Management conformance of the contract.</li> <li>Investigation to be done on the backwash ability at exiting Kaitaia Water Treatment Plant.</li> </ul>							
The estin     Key Project Risks		to contra	ct award has increased. I	f award happened by	y end of May 2021, it would have resulted in a 26-week delay to contract award.  Mitigation of Risk			
		: negotiat	ions delay the award of co	ontract.	Continued focus to project team to resolve Meeting with landowners with Elected Members Formal process using Local Government Act			
			edia coverage should the er of drinking water stand		Prepare media plan and key messaging			
There is a risk of	another locl	kdown du	ring the construction pro	gramme	Request contractor mitigation as part of procurement Pricing Schedule allowance for level changing and stand down			
Project Timeline					Delay in contract awarding will delay project completion. Plan is to have infrastructure in place by summer 2022.			
Project Costs					Time delay and alternative route option will delay project costs.			
Key Project Mile	stones		Expected	Status	Comment			
Design contract a	award		29/11/19	Complete				
Design complete			31/07/20	Complete	Close out of comments ongoing			
Commence PW p	rocurement	t	June 2020	Complete				

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Nov 2020

Further delayed

Estimated 31/04

Award PW contract

Alternative route design for separable portion     End of July 2021     Awaiting offer of service     WSP given instruction on 11 May 2021.		1 May 2021.						
Practical completion	September 2022	Delayed	To be revised however dela of 2022.	y to contract award will likely increase this to beginning				
Project Budget Status	Project Budget Status							
Approved Budget	Approved Budget			Forecast Total Spend				
Finance to provide	Finance	to provide	Finance to provide					

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#### Project Name: Kerikeri WWTP & Reticulation

Project Phase: WWTP Construction									
Status Item	Current Status	Prior Status	iummary						
			Plant - The plant is operational, and all documents were handed over to Far North Waters. In process getting quotes for all the Health and Safety and Operational issues.						
Overall Project Status	Green Amber		The reticulation project is nearing completion and received a total of 244 signed off letters to date by end of April 2021 (From the 314 low pressure sewer connections and 16 gravity connections). United Civil has submitted the delay claim and in process to be evaluated. On track to have the physical work completed by end of May 2021. Attending to the remaining problematic connection sites.						
Scope	Green	Green	Scope creep from design issues due to awarding contract without "IFC" drawings, is managed and the HAZOP has been revised for the new site and is completed.						
Schedule	Green	Amber	Physical construction is completed. Defects and Liability period until October 2021.						
Cost	Red	Amber	Reticulation – United Civil submitted delay claim on 08 April 2021 and are being evaluated. Further supporting documentation have been requested.						
			Schedule extensions and cost increases are managed as stated above.						
Project Risk	Amber	Amber	Official handover of Plant to Far North Waters was done, with only Asset Data Register outstanding. Unforeseen operational issues were picked up by Far North Waters during operation from December 2020 until now which are being assess. A final list with costs and a risk register are being prepared to determine the proposed way forward.						
			Delay claim and additional VO's to be managed. Cost management the biggest Risk.						

#### Monthly Summary:

Plant - The plant is operational and all documents were handed over to Far North Waters. Quotes have been received for all the Health and Safety and Operational issues but waiting for formal submission by FNW/Broadspectrum to the project team. The plant is being monitored by Far North Waters and Mott MacDonald. The plant has been performing well and producing compliant effluent from a biological aspect. In order to ensure the plant continues to produce compliant effluent, the following key steps needs to be followed:

- Continue regular sampling of the influent, effluent pre-UV and final effluent post-UV.
- Continue on-site testing as this will keep the operators informed on the plants performance on a day-to-day basis, especially in the case there is a delay in receiving official results from the laboratory.
- Samples analysed for TSS and UVT% whenever E. coli tests are done. This will help with troubleshooting should the E. coli results start approaching consent limit exceedances.
- It is recommended that a 7-day performance test be undertaken, preferably by the UV supplier, to demonstrate that the UV system is performing as per the specification.
- Influent sludge to the dewatering plant and dewatered cake should continue to be monitored for flow rate and sampled for % dry solids. Polymer consumption should also be recorded. This information should be used to optimise the dewatering process in consultation with IXOM and Sindico.

Reticulation - The reticulation project is nearing completion and we have received a total of 244 signed off letters to date (From the 314 low pressure sewer connections and 16 gravity connections). United Civil has submitted the delay claim and are being evaluated. On track to have the physical work completed by May 2021. Attending to the remaining 8 problematic stands.

#### Key work completed during April 2021

- Treatment Plant
  - Attending to Defects;
  - Ongoing attending to safety and operational issues raised by Far North Waters.

Design

- OOS was submitted by Mott MacDonald for updating of Asset Data Sheet and the appointment was made by the Asset Management Department of FNDC; and
- Updating as built drawings and clarifying queries.

#### Commissioning

- Ongoing testing and analysis of results; and
- Ongoing monitoring of the performance of the Treatment Plant by Mott MacDonald until July 2021.

#### General

- Fence issue and Top Energy Easement investigation;
- Land and easement agreements by Law North. Awaiting valuation of land portion; and
- Top Energy Easement Agreement change drafted.

#### Reticulation

- Approximately 320 Properties connected to date. 244 signed off property letters received;
- As Builts Surveyor full time on site;
- Top soiling and finishing off and obtaining signed off sheets of remaining properties;

Design

- Attending by Mott MacDonald to queries; and

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#### - Variations to design.

#### General

- Information sheet and invoicing to all landowners;
- Evaluation of rates by ETC ongoing;
- Ongoing responding to queries from landowners and RFS's; and
- Easements required for some variations.

Main activities planned on the Treatment Plant for May 2021 are to capture the Asset Data Register and finalising the quotes for the Defects and the safety and operational issues raised by Far North Waters. Also submission of the As-Builts to FNDC.

Work will continue by United Civil with the cutting over of the house connections with an estimated completion by end of May 2021 and close out of projects by June/July 2021. Decommissioning of the existing treatment facility in Shepherd Road is scheduled for 2021 and planning will commence after funds are secured and committed. The existing Plant was shut down at the end of December 2020. Focus will be getting the information from the contractor:

- UCC to provide the following:
  - o As Builts
  - o Asset Record and Data sheets
  - o Warranties/Guarantees
  - o Pressure sewer system commissioning certificates form the suppliers
  - o CoC and electrical safety certificates
  - o O & M manuals
  - o Photographic Records

Key Project Risks		Mitigation of Risk			
Reverse sensitivity around new WWTP and infrastructure	е	Assess design odour control efficiency during operations			
Design changes increase schedule and cost		Facilitate alignment betwee	n design and construction		
Managing stakeholder expectations			es ongoing through monthly newsletters and direct communications r. RFS from community are ongoing.		
Commissioning Phase 6 - Unforeseen and results not bei	ng achieved		tors that will require adjustments or additions. Meeting scheduled stpones until all works are costed with a completed Risk Register.		
Covid-19 level changes		Far North Waters ready to in	nplement any level changes.		
Cost Management of Reticulation Contract		Delay claim and variation orders			
Project to be capitalised		Getting the necessary as builts and asset data from contractors to capitalise project in time for rates adjustments of 1 July 2021.			
Key Project Milestones	Expected	Status	Comment		
Asset Data Register update and capitalising of Project	31/05/20	Pending	Mott MacDonald and Stellar Project to complete Asset Data sheet for Plant. UCC to submit Asset Data for Reticulation project.		
Practical Completion of Kerikeri WW reticulation and Close Out	31/05/21	Pending	First and second stage completed. Stage 3 started in December 2020 and will continue until May 2021.		
Decommission existing Kerikeri WWTP	tbc	Pending	Budget to be confirmed.		
Project Budget Status					
Approved Budget		Actual Spend to Date	Forecast Total Spend		
Finance to provide		Finance to provide	Finance to provide		

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#### Project Name: Monument Hill Deep Bore Project

#### Project Phase: Stage 2 Drilling - Construction

<b>6</b> 1 1	•										
Status Item	Current Status	Prior Status	Summai	ry							
Overall			perform the bore	ing of the production bore that started in D ed in March 2021. The data from the test p e, and the effects of pumping on the shallow nly expected in May 2021. The outcome of	oumping is now being analysed to determin v aquifer and springs. The report from Will	e the sustainable (long term safe) yield of iamson Water and Land Advisory (WWLA)					
Project Status	Green	Green	Stage 1:	Bore Design and Quality Testing (Complete	)						
Status			-	ge 2: Sustainable Yield Assessment & Consenting to provide a sustainable supply of highly secure potable water for the Kaikohe nmunity (In progress)							
		Stage 3: Reticulation and Electrical Design									
			The phy	he physical works for stage 2 scope is confirmed. The outcome of stage 2 and testing will determine the fate of stage 3.							
Scope	Green	Green	trenche	ly be done if test results in Stage 2 are satisf d pipe to connect to the Monument Hill Wa ıcture will be required. Scope to be determ	ter Treatment Plant. Electrical upgrades at						
			The phy	sical works for stage 2 scope is confirmed. T	he outcome of stage 2 and testing will dete	ermine the fate of stage 3.					
Schedule	Amber	Amber	trenche	ly be done if test results in Stage 2 are satisf d pipe to connect to the Monument Hill Wa ıcture will be required. Scope to be determ	ter Treatment Plant. Electrical upgrades at						
Cost	Green	Green	Project o	on budget.							
			Landow	ner agreements to be finalised.							
Project Risk	Amber	Green	Initial re	sults indicating delivery of bore is not as pe	r the design expectations.						
			Impact o	of Bore on groundwater might restrict proje	ct. Waikotihe Trust relationship to be moni	tored.					
Monthly Su	ımmary:										
Constructio	on										
	establishm	ent of con	tractor.								
Design	busing of t	oct roculto	and writin	g of report by WWLA.							
General	alysing of th	escresults		g offeport by wwith.							
- Wa	ikotihe Tru	st relation:	ship and c	onsent to be managed - obtain the Trust co	nsent to proceed with the project.						
Key activiti	es planned	for May 2	021:								
Construction	on Works										
	aring and S	ite Reinsta	tement to	o original conditions.							
Design											
	luation of		0,	ject scope; and							
	nsenting pr										
General			. 3								
- Agr	eement wi	th Landow	ner to be	managed by FNDC legal team; and							
- Wa	ikotihe Tru	st relation	ship and c	consent to be managed - obtain the Trust co	nsent to proceed with the project						
Key Project	Risks		Mitiga	tion of Risk							
Land Stakel and Approv	-	agement		ment with Landowner to be managed by FN consent to proceed with the project.	DC legal team. Waikotihe Trust relationshi	p and consent to be managed - obtain the					
Water Quar	ntity			stainable yield from new bore to be determ able. The above is to be determined/confirr							
Water Qual	ity			nson Water and Land Advisory performed w red iron concentrations were identified as a							
Existing Wa	iter Treatm	ent Plant	Possib	le amendment to existing Water Treatment	Plan and electrical requirements to new se	etup remains a cost and timing risk.					
Key Project	Milestone	s		Expected	Status	Comment					
Analysis of	test results	and repor	t	End of May 2021	Pending	WWLA has experienced delays to finalise report. In progress and latest					

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					submission is end of May 2021.			
Close out and Reporting	30 April 2021		Pending		WWLA is busy with analysing and reporting. McMillan Drilling to de- establish and reinstate area to original condition			
Resource Consent preparation and application	8 to 12 week	s (22 September 2021)	Awaiting outcome of Stage 2 testing		On the assumption that it will be a Non- Notified application. Delayed by two months as a results of test report.			
Further milestones to be determined afte	r outcome of te	esting						
Project Budget Status	Project Budget Status							
Approved Budget		Actual Spend to Date		Forecast Total Spend				
\$1 180 000		\$190 383.60		\$1 180 000				

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### Project Name: Paihia WWTP Upgrade

#### Project Phase: Planning and Design – Regress due to Chemical Dosing Requirements

Status Item	Current Status	Prior Status	Summary	Summary						
Overall Project Status	Green	Green		Construction is 100% complete. All requirements have been met and Completion Certificate has been issued. Chemical dosing requirements have been confirmed, project is in design phase						
Scope	Green	Amber	WSP have been	engaged to car	rry out the desigr	and technical specification				
Schedule	Green	Red	-		•	in Jan 2021 however further rmed with new milestones e	testing was required to the end of Feb to confirm established identified below			
Cost	Green	Amber	Project is curre	ntly within budg	get					
Project Risk	Amber	Red	Plant is complia	nt						
Monthly Summary:         All defects and requirements have been met with Contract close out completed and Completion Certificate issued for Contract 7/18/500.         Design consultant has been engaged for the dosing requirements.         Accomplishments:       Expected Accomplishments:         • Contract 7/18/500 Close out       • HAZOP Completed.         • Engagement of Consultant for Design       • Design Completed.										
Design 60     Key Project Ris	% Complete			Mitigation of I	Supply specification Completed					
Alkalinity Adjustment. To be completed as a separa This has been foregone due						to requirements from chemical dosing.				
Land Stakehold (Tangata Wher			PP	Continuous en	gagement and in	agement and involvement				
Change Manag	ement.			Maintain week	weekly reporting and filing system.					
Meeting Enford Conformance r		er Conditio	ons Non-	Monitor progress, continuously assess changes and impact to delivery, and apply for extension if required. Manual chemical dosing required in the short term to bring the plant back into compliant levels.						
Key Project Mi	lestones		E	pected	Status	Comment				
Issuing of Com	pletion Cert	ificate	23	-Mar-21	Met	All requirements met.				
Engage Design	Consultant		25	-Mar-21	Late	Issued 1-Apr-21				
Design Comple	tion		27	May-21	Underway	Currently tracking on	time			
Supply Procure	ment Comp	oleted	24	-Jun-21	Ongoing	Supply of Dosing Units	5			
Installation Pro	curement (	Completed	17	-Jun-21	Ongoing	Installation of Dosing	Units			
Completion All	calinity Adju	istment	9.	Sep-21	Ongoing	Currently tracking on	time			
Project Budget	Status									
	Approv	ed Budget			Actual Spe	nd to Date	Forecast Total Spend			
	\$6,47	8,069.71			\$5,782,256.13 \$6,478,069.71					

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#### Project Name: Opononi New Water Source - Smoothy Road Bore

Project ID: 571008

Project Phase: Pre-Implementation of Stage 2										
Status Item	Current Status	Prior Status	Summary	Summary						
Overall Project Status	Green	Green		II physical work and preparation of the SO Plan identifying the land to be acquired by Council are completed. The formal plan has een lodged with LINZ for approval. The formal acquisition of the land area through the Gazettal process is still outstanding.						
Scope	Green	Green	No changes in scop	De.						
Schedule	Green	Green	Completed							
Cost	Green	Green	Cost of project did	not exceed budget.						
Project Risk	Green	Green	None							
- Title to - Compe Hokianga Holdi at LINZ. Prope	the land ad nsation to ngs Limited rty Group s	cquired fro the landov d, Top Ener ubmitted t	vner	to be obtained by way of gaz signed the sale and purchas n of the land area.		e agreements	, and the Survey Office Plan was approved			
Key Project Ris	ks				Mitigation of Risk					
Maintenance o	f Top Energ	gy lines by	FNDC		Tree line needs to be maintained to prevent damages to overhead lines.					
Getting Asset D	ata from V	entia			Follow up with project team and manager					
Key Project Mi	lestones		Expected		Status		Comment			
Asset Data She	ets		30/05/21		In progress		Awaiting info from Ventia			
Formal acquisit	ion by Gaze	ettal proce	ss 30/06/21		In progress Submitted, awaiting approval					
Project Budget	Status									
	Approv	ed Budget		Actual Spe	end to Date Forecast Total Spend		Forecast Total Spend			
	\$94	46,665		Finance t	to provide Finance to provide					

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#### **Project Name: BOI Sports Complex**

Project Pha	se: Conce	ept Stag	e					
Status Item	Current Status	Prior Status	ummary					
Overall Project Status	Green	Green	The planning stage and design stage is underway. From here 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	manage the development and delivery of a Waipapa Sport Hub on the land acquired. The development must meet stakeholder, mmunity, and sporting code requirements.					
Schedule	Amber	Amber	Currently the project is tracking slightly behind the original programme, this is due previously mentioned delays some further planning delays. Pre application meeting with Council indicated the need for a Notified Resource Consent. Notified Resource Consents take around four to six months to process, depending on the complexity, significance and the level of contention involved. This will impact the overall programme, as Building consent cannot be obtained until RC has been approved. Additional Specialist Reports is required as part of the Notified Resource Consent applications.					
Cost	Green	Green	The project is running within budget.					
Project Risk	Amber	Amber	<ul> <li>Resource Consent processing times</li> <li>NTA approvals</li> <li>Any changes to approved concept layout would be a risk to the project.</li> <li>Meeting procurement objectives results in a longer procurement process.</li> </ul>					

#### Monthly Summary:

Physical works for the improvements around the SH10 junction started. Once the tree felling was completed, it was discovered that the main Fiber cable running from Auckland to Kaitaia, a 200 Copper cable runs directly within the roots swell of the tree roots that needs to be removed. The roots cannot be removed without damage to the cable. The cables need to be relocated. Chorus is busy doing a costing quote. This is delaying the SH10 works progress.

After comments from the pre-application meeting, the concept layout was adapted to address some concerns from NTA. The new layout was presented to the working group and FNDC and accepted as the final layout.

Haigh Workman & NZTMS is busy finalizing concept design for Resource Consent purposes. Architect underway with concept design.

Noise Assessment Report & Ecologist Report received. Lighting design is underway, and the Lighting Assessment Report is expected in May.

Aiming to submit the Resource Consent application end May / beginning June.

Key work completed in the month of April 2021:

- Acceptance of the new revised concept layout
- Start of the Architectural concept design
- Receipt of the Noise Assessment Report
- Receipt of the Ecologist Report

Key Project Risks			Mitigation of Risk		
Potential Notifiable Resource	e Consent		Value Engineering during design		
Design decisions			Continues comm	unication with role-players and getting sign-offs in time	
Covid or natural disaster (Civ	il defence emergency) disruptio	ns	Adaptable Busin	ess Continuity plans	
Market capacity to deliver			Procurement pla	nning	
Community Engagement			Agreement of a	Working Group to steer matters	
Downstream Impact – Ongo	ng future operation costs		Value Engineering during design		
Supply Chain – getting servic	es and materials needed		Early procurement		
Programme Governance – C	onflict of Interest		Set up Mitigation Plans		
Key Project Milestones	Expected	Status		Comment	
Initiation	03/08/2020	Completed			
Resource Consent	Jun 2021 – Sep 2021	Planning		Pre-app meeting held. S92 items identified. RC will be notified consent	
Concept Design	Jan 2021 Ongoing				
Developed Design	Jul – Jul 2021	Underway			
Detailed Design	Jul – Sep 2021				
Building Consent	Nov 2021			BC application can only be submitted once RC has been approved	

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Procurement Dec 2021			
Project Budget Status			
Approved Budget	Actual Spend to Date	Forecast Total Spend	
\$11M	\$5M – Land acquisition \$0.02M - Design fees	\$11M	

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#### Project Name: Kerikeri Domain Revitalisation

Project Phase: Concept Stage					
Status Item	Current Status	Prior Status	Summary		
Overall Project Status	Green	Green	The community and working groups agreed on the initial scope of work for the current funding grants. This has been captured on a concept layout plan for the area and works can commence to ensure detailing of the scope and approach to physical works is efficient.		
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 will then be designed and executed.		
Schedule	Amber	Amber	Currently the project is tracking slightly behind the original programme, this is due to sign off from stakeholder groups for scope, originally planned in September and only completed in January 2021. The detailed design of the Basketball Court and Skatepark led to the works requiring a Resource consent for the volume of earth works, total impermeable surface coverage and lighting. Resource Consent. Resource Consent application will be submitted end May. Demolition of existing will only start once Resource Consent approval has been received. Landscape, shared path & play space design planning will start in May.		
Cost	Green	Green	The Project is currently within budget		
Project Risk	Amber	Amber	<ul> <li>Resource Consent processing time</li> <li>Wintertime earthworks</li> <li>Major changes to the concept layout plan would be a risk to the project.</li> <li>Meeting procurement objectives results in a longer procurement process.</li> </ul>		

#### Monthly Summary:

Detailed design for the Basketball court, surrounding footpath and Skatepark near completion. Engineering design for drainage and Stormwater for Resource Consent application is being finalised and engineering input received with regards to civil and services connections.

Procurement of the demolition of the existing Basketball Court and skatepark will be done once RC has been submitted.

A live survey is underway for input into the proposed play space. Survey closes on the 2md May 2021.

Landscape designer procurement has started.

Key Project Risks		Mitigation of Risk			
Resource Consent processing times			Pre-application meeting has been scheduled prior to lodgement.		
Market capacity to deliver			Procurement planning		
Community Engagement - Community buy in is KEY, the community might argue they didn't want it in the first place			Agreement of a Working Group to steer matters		
Downstream Impact – Ongoing future ope	ration costs		Value Engineering during de	esign	
Supply Chain – getting services and materi	ials needed		Early procurement		
Programme Governance – Conflict of Inter	rest		Set up Mitigation Plans		
Key Project Milestones	Expected		Status		Comment
Initiation		03/08/2020	Completed		
Community Scoping		Aug- Jan 2021	Completed		Workshop held
Developed Design		Feb - Apr 2021	Completed		
Detailed Design		May – Jul 2021	Underway		
Procurement		lan - Aug 2021	Ongoing		
Construction		Jun - Oct 2021			
Project Budget Status					
Approved Budget		Actual Spe	eend to Date Foreca		Forecast Total Spend
\$ 3M		\$ (	\$ 0M \$ 3M		

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#### Project Name: Freese Park Coastal Erosion – Design and Consenting

Project Phase: Options Assessment								
Status Item	Current Status	Prior Status	Summary					
Overall Project Status	Green	Green	<ul> <li>Investigations are complete: <ul> <li>Drone survey undertaken and output has been received.</li> <li>Geotechnical investigations undertaken and output has been received.</li> </ul> </li> <li>Preliminary Planning Assessment has been completed. This included investigation into the compliance of existing structures.</li> <li>Consultation Strategy/Plan in draft.</li> <li>Coastal Process and Erosion Assessment has been finalized.</li> <li>Options Assessment has been completed in draft and the outcome of this assessment has been issued in a report to Council (due to be presented at the May Council Meeting).</li> <li>Project on hold until we receive Council approval to proceed to public consultation based on the proposed design concepts. Awaiting May Council meeting.</li> </ul>					
Scope	Green	Green	No changes in scope					
Schedule	Amber	Amber	Project on hold – awaiting outcome of May Council meeting					
Cost	Green	Green	No impact on project costs to-date					
Project Risk	Green	Green	As per below					
Monthly Summ The project has		d for 6 wee	eks while awaiting a Cou	ncil meeting to approv	<i>v</i> e approach to	consultation.		
Key Project Risk	s				Mitigation of	Risk		
Integrated eros	ion managen	nent soluti	on cannot be agreed upc	n	Early and clear consultation with key stakeholders including owners of properties bordering the public spaces.			
COVID lockdow	ns result in d	elays to pr	oject		Build contingency into programme			
Key Project Milestones			Expected		Status		Comment	
Presentation to Council of work to date including options considered and proposed consultation strategy.			Mid May	On hold No comment		No comment		
Project Budget Status								
	Approved	Budget		Actual Spe	Spend to Date Forecast Total Spend			ecast Total Spend
	\$199	.404		\$77,959 \$199,404			\$199,404	

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## TOURISM INFRASTRUCTURE FUND

## August 2019 Applications:

	Project	Status	Notes
1a	Waipapa Toilet Capacity Upgrade (Soakage Field)	Approved with Funding Agreement	Construction has started and completion is due in May 2021.
1b	Waitangi Jetty Toilet Capacity Upgrade (BOI Yacht Club)	Approved with Funding Agreement	The new extension block has been completed. A local supplier has submitted a comprehensive and well-priced proposal to complete the conversion of the old block. They are currently undertaking SiteWise qualification. Construction is anticipated to be completed next month.
2	Pungaere Road Seal Extension	Approved with Funding Agreement	Works onsite has progressed well with completion of the full Pavement overlay and stabilisation throughout the 3.5km length of the site. The sealing of 3.3km of the total 3.5km site was completed in April, with the 100m section at the stock underpass to be sealed once the stock underpass is completed, and the 100m remaining at the intersection with Waiare Road to be sealed once conditions allow (Pavement moisture content is within compliance. Road- marking has been completed over 1.1km of the site with the remainder of the site will to fully Road-marked in early May. The installation of the final cross-road culverts and discharge outlets to address long standing discharge issues was completed in April, with additional outlet structures and culvert headwalls to be installed in May now sealing has been completed. The sealing of 95% of the road was completed by 29 <sup>th</sup> April 2021, with only 5% of the preparation and sealing remaining, along with various ancillary works to complete the project.
3	Cable Bay Carparks	Approved with Funding Agreement	Agreement has the construction phase scheduled in the next financial year. A local designer has been approached to schedule the design process. Design is scheduled to be completed in July with procurement taking place in August and will be aligned with the Te Hiku PGF project to maximise productivity and local economic benefits.
4	Taipa Beach Pohutukawa Protection	Completed	Remedial work completed.
5	Paihia Beach Toilet Enhancement (Outdoor Shower/Drainage)	Completed	Drainage issue resolved and shower installation is now complete.
6	Stone Store Lighting	Approved with Funding Agreement	A contractor has been appointed to deliver the electrical services and work is scheduled to begin in July. Final Design is underway.
7	Freedom Camping Operational Plan Study Grant	Approved with Funding Agreement	Infrastructure requirements being priced, and final report drafting is under peer review.
8	District Boat Ramp Operational Plan Study Grant	Approved with Funding Agreement	Final report completed. Next step is to go to the infrastructure committee scheduled 5 <sup>th</sup> May 2021.

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August	2019 TIF 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	\$120,000	\$234,000	Ş424,000
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

## August 2019 TIF Funding

Round 5 March 2020 TIF Applications

Note: Round 5 which had been postponed due to Covid-19 was reopened at short notice with a closing date of 29 April 2021.

Applications have been submitted for the following projects:

Proje	ect	FY	FNDC	MBIE	Total
1	SMART CITIES: Smart Lighting (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	Cape Reinga Road (Te Paki i-Site) 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	\$1,284,811

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## NEW CONNECTIONS AND FNDC CONSENT REVIEW

Activity		April 2021	YTD '21	YTD '20	
Applications for new Water and Wastewater connections	<b>.</b>	10	82	87	10 requests to connect to Council water and wastewater services were received in April 2021. Year to date Council has received 82 applications (compared to 87 last year)
FNDC Resource Consent Applications Reviewed by IAM	All	33	470	285	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	146	1668	1149	IAM's consents technician input into Land Information Memorandums by completing soil reports and assessing development contributions.

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## 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.

**Status**: The FNDC ES is currently in a Working Draft version 0.3 state and will go out for public consultation between 17 May 2021 – 14 June 2021.

**Milestones:** Version 0.4 (RMA Clause 35) and version 0.5 (Final) is milestone to be reached. A presentation on the ES will be held at the practitioners meeting in Kaitaia on 28 May 2021.

#### 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

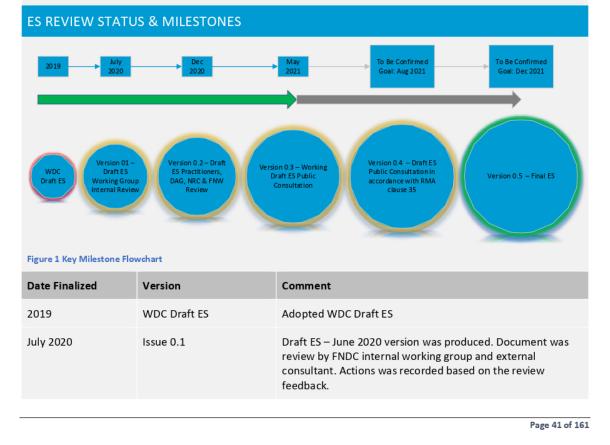
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# INTRODUCTION

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.



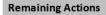
Dec 2020	Issue 0.2	Draft ES – Dec 2020 version was produced. FNDC ES Review was handed to IAM Engineering Team. The Draft ES was sent for review to the Far North practitioners, FNW, FNDC internal, Disability Action Group and NRC. Actions was recorded based on the review feedback.
May 2021	Issue 0.3	Working 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.

28 May 2021	Issue 0.3	IAM Engineering Team will provide a presentation at the practitioner meeting in Kaitaia RSA, 12 Matthews Ave, Kaitaia on the Draft Engineering Standards. A discussion session will be held after all presentations.
To be confirmed. Goal Aug 2021	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 Aug 2021	Issue 0.5	Final FNDC ES

## ES SCOPE OF WORK





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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		

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Other Iss	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.						

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# PROGRAMME DARWIN

To lead best 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

Program Darwin continues to advance albeit at a moderate rate. No significant change in status. Technology workstream will submit a revised SoW, data cleansing is continuing but timelines remain uncertain. Lead identified for Lifecycle workstream. Reset session scheduled for 21 May 2021 to align understanding and set a common forward direction for Darwin

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#### PROGRAMME VISION

#### Vision: Leading best practice enterprise asset management in NZ.

#### Mission: Lifting the understanding and delivery of asset management across the organisation.

← STATUS	← STATUS INDICATORS							
Overall	→	No significant change in status. Technology workstream will submit a revised SoW, data cleansing is continuing but timelines remain uncertain. Lead identified for Lifecycle workstream. Reset session scheduled for 21 May 2021 to align understanding and set a common forward direction for Darwin.						
Benefits		No change; remains the basis of performance framework for 2022.						
Capability		Challenges remain with project delivery resourcing across the project team, including asset SME's, IT project support and supply chain capacity to support project inputs.						
Leadership		Programme leadership has been strengthened with the appointment of a permanent Manager Asset Management & Infrastructure Planning to foster greater integration and task prioritisation and the appointment of the Programme Manager – EAM.						
Budget		Currently appears within forecast but actual spent and staff claims against budgets remain under investigation. 2022 and follow-on year budgets yet to be defined.						
Roadmap		Revised timelines, deliverables and expectations detailed in November update to Elected Members are unrealistic. The Reset session will provide guidance as to a revised Roadmap. The velocity at which data cleansing is being performed remains an issue.						
Risk		A number of variables, resourcing, budget, rate of delivery etc. still plaque the programme. Also, the uncertainty surrounding proposed water reforms.						

←STATE OF PLAY					
Last Month	Next Month(s)				
Programme: Candidate for Lifecycle Workstream Lead identified.	<b>Programme:</b> Map out the programme of work for Stages 1 and 2 (2022) and provide focus to accelerate asset condition assessment piece of work.				
• Technology W/S-1: Data cleaning against IPS business rules for Dataset- 2 in progress, and refinement of business processes continuing.	<ul> <li>Technology W/S-1: Revise the SoW to ensure organizational expectations are met once Phase 1 (a &amp; b) are delivered.</li> </ul>				

• Lifecycle W/S-2: None.

- Transformation W/S-3: None.
- Stakeholder W/S-4: Continued engagement with all data supply chain partners e.g., Far North Waters on system requirements.
- Lifecycle W/S-2: Condition assessments to continue and accelerate. • Transformation W/S-3: Workshop to be held after Reset session.
- Stakeholder W/S-4: Continued engagement with all data supply chain partners e.g., Far North Waters on system requirements.

← PROGRAMME WORKSTREAMS							
Name	Туре	Status	Programme Comment				
1-TECHNOLOGY: Integrated Asset Management System (IPS)	Project		Full operational use of IPS Suite will only be possible once all the data loads have been migrated (optimistically December 2021), and the system has been fully configured (towards the end of 2023). The status will be updated to reflect the updated schedule once the AMS project manager has agreed to the revised timeline. The team is experiencing delays within the data cleaning process.				
<b>2-LIFECYCLE:</b> Asset Life Cycle, Processes, Condition Assessment, Data & Analytics	Operational		No budgetary changes, the planned LAMP pilot is not expected to be ready by June 2021. Currently, the completion of a pilot LAMP is projected to be delivered December 2023. Condition surveys are being delayed ensuring the process and tooling for the capturing of field data will provide for an efficient process, correct asset fields and accurate data. WinCan is being proposed as a potential solution to address these requirements.				
<b>3-TRANSFORMATION:</b> Roles & Responsibilities, People & Culture	Improvement		Initial survey completed (Field Force). Original transformational plan will not be pursued as Toney McCartney (PraCxus) has stepped away from the programme. A new plan to be developed by Helen R and Bonnee H.				
4-STAKEHOLDERS: Upwards, Downwards, Outwards & Sideways	Improvement		Engagement program yet to be initiated. Communications Framework to be reinvigorated.				

#### ← PROGRAMME MILESTONES

Milestone	Baseline Date	Actual Date	Status	Comment
Identify Stage completed	NA	30/11/2019		Programme plan agreed for Phase 1a will not deliver on Council's business requirements without adding Phase 1b; Stages 2 & 3 delivery plans to be workshopped with the stakeholder group over the coming months.
Define Stage completed	31/03/202 0	1/02/2021		Operational demands on project resources along with discovered issues relating to data and data access have delayed progress until availability of condition data and working system environment.

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Execute Stage completed	30/06/202 1	30/06/2023	Delivery date extended to reflect the adaptation necessary once the team begins with condition data importing & manipulation.
Product Review Stage completed	30/06/202 2	31/12/2023	Project & workstream delivery will be staggered to ensure each value release builds on prior releases over 2022-2023. The reduction in condition budget may foil the delivery of a fully mature system by June 2022.

🗲 ТС	← TOP PROGRAMME CHALLENGES								
Ref #	Explanation & Cause	Priority	Action Required	Owner	Date Raised				
5	Operational commitments impede staff availability to participate in workshops or contribute to Darwin, resulting in sub-optimal progress.	1	Some improvement in the outlook with additional resourcing coming on board. Still expect this issue to prevail 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 constrains may lead to an adjusted risk profile.	Possible	Major	Stable	Status report and mitigation framework presented. Full programme lifecycle update by November 2020.	PrgM – EAM	Apr 2021
14	Investigation into budget management have identified some potential issues with coding of time.	Probable	Significant	Stable	Changes to budget allocation still being worked through.	PrgM – EAM	Apr 2021
15	Water reform investigations/negotiations impact both progress and willingness to advance program.	Possible	Major	Stable	Programme leadership commitment and organisational information governance committee oversight.	PrgM – EAM	Apr 2021

+ PRC	← PROGRAMME FINANCIALS								
	Approved Budget	Spend to Date	Forecast Cost to Complete	Commentary					
Capex				Darwin does not currently have a budget. Costs appear to reflect against the budgets allocated to respective projects. Investigation is ongoing.					
Opex				Budget spent to be planned out once new condition assessment project manager is appointed.					
Totals									

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# INFRASTRUCTURE PLANNING

Policy making and integrated planning. Managing consents which authorise activities essential to the services Council provide.

The following provides an overview of the current priorities on the Infrastructure Planning Team's work programme. This includes planning projects, collaboration and engagement activities and key consent applications and renewals.

# EXECUTIVE SUMMARY

In the month of April, the Infrastructure Planning team progressed work on several key projects:

- The recently issued resource consent required working group (WG) consisting of senior council staff, Ngati Kahu hapu and community representatives to be established. The group met for the first time in March and will meet monthly over the next year.
- The 2021-2051 Infrastructure Strategy is largely completed, and staff are currently addressing audit feedback.
- Wastewater land disposal assessments for Kaitaia and Kaikohe are to be taken before the infrastructure committee on May 5<sup>th</sup>. Staff will be asking for support in the economic viability of land disposal.
- Infrastructure planning continue to work with Strategic
   Planning and Policy team on key pieces of work including:
  - Parking policy and bylaw
  - Water supply bylaw review
- Staff continue to work on project to develop methodologies to undertake inhouse the task of forecasting future demands that will be placed on our water and wastewater schemes.

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	Key: •	Complete • In	progress	• Parked			Stormwater	District Facilities	Wastewater	i- Water
Activity	Asset		S	tatus		Expected Completion	Comment			
	Group	Concept	Plan	Deliver	Handover	completion				
Strategies / Plans / Pol	licies					1				
District Transport Strategy		•	•	•		FY19/20	Regional Land Transport P were undertaken by Regio	egrated Transport Strategy Programm Plan and NZTA suggested modification onal Transport Committee. The Trans ation planning. The FNDC website ha	ns have been effected to ensure ir port Strategy development proje	mproved chances of gai ct is now being prepare
Sludge Strategy – End Use		•	•			Ongoing	of a preferred end use (q options with the intention	udge as a resource is a challenge. Th uarry rehabilitation), however initia n of determining a preferred option n) is required to facilitate the curren	l development of this option ide . Further work, in terms of impl	entified a number of po ementing the preferred
WWTP Consent Replacement Programme	Ļ	•	•			Ongoing	has now been completed and technical information	ed has been initiated to support the c to cover the consent replacements t n requirements for each consent a ants is largely complete and consulta	hat need to be lodged over the n pplication. Commissioning of ur	ext five years. That wor gent technical work re
2021-2051 Infrastructure Strategy	H de	•	•	•		Ongoing		t requires that all Local Authorities p nse to address major long-term infr		
Paihia Network Model Upgrades		•	•	•		Mid 2021	model calibration is curre August 2021, to account	lerway to update and calibrate the v ntly being carried out. A request to N for additional time associated with projects are comfortably on track to	/IBIE was lodged, and has been and has been and processing the a	pproved, to extend the additional flow monito
Balance of WW and WS Model Upgrades		•	•			Ongoing	March 2022. As a result of of the WW and WS mode Model Build/Update and 0 a 3-month timeframe so t Jacobs have been included An output of Stage 1 is the	nding via the 3W Reform to update a consultant feedback regarding proce Is has been revised. Each model upd Calibration; and Stage 4 Model Analy that the data acquisition can occur d d in the Stage 1 RFQ's as they have p e scope of model update required fo ued later this year for Stage 2 and 3	urement for the Paihia model upd ate project will be staged: Stage rsis. RFQ's have been issued to a uring the wetter months as this is partially undertaken data review a r each model, based on the finding	late project, the metho 1 Data Review and Gap number of consultants s particularly beneficial and gaps analysis for m
Water and Wastewater Demand Forecasting		•	•	•		Mid 2021	methodologies for foreca	s to improve the quality of the data sting future demands is underway have the methodologies developed,	with this stage of the project, w	vith methodologies exp
Wastewater Disposal to Land Investigations		•	•	•		Ongoing	be granted unless a dispo discharge to land assessm the Kaikohe and Kaitaia W and practicable viability, v	ed Regional Plan for Northland sets of osal to land option has been consid ent methodology, being a desktop m WTP and is currently underway for th will be reported on at the May 05 Inf astewater to land is considered to be	ered and found not to be econo nethod to identify sites potentially ne Hihi WWTP. Findings from the a rastructure Committee meeting,	omically or practicably y suitable for land dispo assessments for Kaikoh to seek a recommenda
Ahipara Wastewater Disposal to Golf Course Investigations		•				Ongoing	specifically including the supported, and staff have	ential viability of disposing treated e Kaitaia Golf Course, for their consid begun development of an RFQ for estigations into the quality of waste	eration. Following consideration onsite testing to evaluate the su	s, interested parties ha itability of the Kaitaia g



ogramme has been incorporated into the draft gaining subsidy. RLTP Deliberations on feedback ared for closure and preparations are underway P deliberations will be undertaken in May

tial options for end use, including identification potential hurdles. Staff are reviewing end use red overall sludge management approach (the strategy.

reatment plants. An initial planning assessment vork provides key planning considerations, risks required to support the Kaikohe and Kaitaia nence.

erm plan. The infrastructure strategy sets down eted, and staff are currently addressing audit

hia. The model building phase is complete, and he completion date for these projects out to 31 toring data that was captured to support the dline.

, within the funding timeframe available, to 31 hod of procuring model updates for the balance Gaps Analysis; Stage 2 Data Acquisition; Stage 3 hts for Stage 1, which is to be completed within ial for WW model calibration. Consultancy firm models in the Kerikeri and Taipa communities. sis and gaps review. This output will be used to

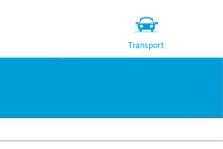
mentation. The consultant engaged to develop expected to be issued mid-May. Currently the 5, by mid-2021.

unicipal wastewater to water will generally not ly viable. FNDC staff have developed a robust posal. This assessment has been completed for ohe and Kaitaia, along with analysis of economic dation from elected members as to whether or

ourse has been provided to interested parties, have indicated that further investigations are a golf course for land disposal. The work to be letermine if upgrades are required before land

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	Key: •	Complete • In	progress	• Parked			Stormwater	District Facilities	Wastewater	Water
Activity	Asset Group	Concept	S Plan	tatus Deliver	Handover	Expected Completion	Comment			
		concept	FIGH	Deliver	Handover		disposal can be implemen	ted.		
Parking Policy and Bylaw	<b>_</b>		•			June 2022	bylaw project is underway timeline impact on delive for interested and affecte	raffic Control Bylaw was not review y with significant research undertak ry of the bylaw by 17 June 2022. A d parties. Council's Engagement tea er surveys will be undertaken in Ma	ten in-house. The Project Brief has Project Plan will be developed to e am will help facilitate this essential	been modified to add stablish the programm
Consent Applications	/Authorisa	itions								
Kaikohe WWTP Renewal	Ş	٠				August 2021	treated wastewater into t reduced to improve wate upgrade. The preferred u	treatment plant (WWTP) services the Wairoro Stream. The existing conductive and to meet appropriate pgrade option has been identified to the state been completed. 20 April, Set	nsent expires 30 November 2021. environmental standards. To achi along with high level costs for inpu	It is known that the n eve this, it is likely tha t into the LTP. The stu
Kaitaia WWTP Renewal	Ļ	•				August 2021	consent will be lodged wit Current work underway ir	eatment plant (WWTP) services the th the NRC prior to 30 August 2021 includes a study on the effects of th I work to support the application w	. The preferred upgrade option ha e tradewaste discharge from JNL, t	s been identified alon
Taipa seawall/hard protection structure	<b>m</b>	•				June 2022		ipa; at the mouth of the Oruru Rive I begin engagement with tangata may also be required.		•
Motutangi Drainage District Concession application	<b></b>	•	•	•		TBC	continued requests for up that the concession appli application and it is under	hat the draft concession report wound the draft concession report wound ates no information was provided cation would be approved (or other stood the Manager is seeking an in the to work with DOC to progress the	d until recently. In late August staf erwise) by the new manager. Th ternal legal opinion on the drainag	f were advised DOC h e change in managen
Kawakawa WTP groundwater reassessment	8-	•				August 2021	water treatment plant. Th correlation between the a Covid travel restrictions h	itiated a project to review the corre ne initial assessment has shown tha quifer and the Tirohanga stream) b ave delayed the hydrologist's site v be amended, then that work can be	t the current information on the co out has recommended some next st isit however a recommendation an	onnectivity is likely to eps, including aquifer d proposal for further
Southern Animal Shelter		•	•			April 2021	Resource consents from b processed.	ooth NRC and FNDC are required to	construct the new southern anim	al shelter. Applicatio
Temporary Southern Animal Shelter		•	•	•		June 2021		consent (land use) application has rmined that the application should		
East Coast / Taipa WWTP WG		•	•	•	•	March 2021	established. The group m disposing of treated waste	urce consent required working gro et in April and will continue to mee ewater (including land disposal opti NRC must be notified by 1 July 2023	t monthly over the next year. The ons) and to provide a report to NR	first milestone to be a C with the best practic



The district-wide parking policy and associated ddress risk associated with policy development mme of consultation and engagement activities ng to the successful adoption of this critical and

s resource consent authorises the discharge of nutrient levels in the discharge will need to be that the treatment plant will need a significant tudy on land disposal feasibility which includes aingahoa Marae, Kaikohe to discuss the consent

0 November 2021. An application to renew the ong with high level costs for input into the LTP. of an ecological assessment and a flood hazard

astal erosion. Alongside the Asset Manager for and then the resource consenting process. An

ations Manager for approval. However, despite C had a new Operations Manager in Kaitaia and ement has required a complete review of the naumau Scientific Reserve. Once that has been

ifer and the Tirohanga stream at the Kawakawa to be correct (i.e., there is a high degree of fer tests to provide a complete assessment. her aquifer testing is expected before May ore the 202122-dry season.

ions have been lodged and are currently being

nal shelter located in Horeke. The consenting ril and one submission opposing the application

hu hapu and community representatives to be a chieved by the WG is to assess the options for ticable option (BPO) by 1 September 2022. If the isposal option.

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Activity	Comment
Collaboration and Engageme	ent
Parking policy and bylaw	A collaboration project with the Strategic Planning and Policy department is underway to write a district-wide parking policy and associated bylaw. The need for a parking policy is o Integrated Transport Strategy and Plan. The current Parking and Traffic Control Bylaw was not reviewed and will be automatically revoked on 17 June 2022.
Disability Action Group	The team remain actively engaged with the Disability Action Group. Recent activity includes confirming to the group that their engagement in the Integrated Transport Strategy has activities in the transport programme which will address the lack of facilities and services for people with disabilities. For example, we are working closely with NRC to expand the To engagement with the group is providing valuable insight into matters that need to be included in the new Engineering Standards.
Regional Council	The Transport team are active members in the Regional Land Transport Plan working group with a key objective to ensure that the Far North Transport Strategy and Programme ar alongside our neighbouring Districts in the RLTP. We were part of the team that road showed and promoted public interest in the RLTP around the region in March. Deliberations on t reported to the Regional Transport Committee for deliberation in May.
Water Supply Bylaw	FNDC's current Water Supply Bylaw is due to be revoked on 16 October 2021; SPP staff, with support from IAM staff, continue to work on revising the content of this necessary bylaw, in users of the current bylaw. Key content of the revised bylaw will enable FNDC to implement water restrictions on water supply schemes, in preparation for or times of drought.
On-site water storage options paper	On-site water storage has been suggested as a possible solution to improve the resilience of the district's water supply schemes. SPP staff, with support from IAM staff, drafted a briefing meeting held on 09 February, which set out relevant work undertaken by FNDC regarding on-site water storage, and summarised the current stance of other local councils regarding improve water supply resilience. This briefing paper is intended to be followed up later in 2021 with a workshop with Elected Members, and an in-depth report that analyses the problem consideration of on-site water storage, along with other options, to improve resilience of FNDC's water supply schemes. IAM staff support will be integral to the drafting of the followed as the demand forecasting work, required to inform the in-depth report on water supply resilience. Due to work prioritisation within the SPP team, it is being progressed by SPP.
Web platforms for WWTPs and associated projects	Alongside SPP's engagement team, webpages are being developed for each WWTP. The webpages will include an explanation of the type of treatment that occurs at each WWTP and a renewal projects and treatment upgrades.

is clear having been identified throughout the

has led to the inclusion of several projects and Total Mobility scheme into the Far North. Our

e are fully incorporated and fairly represented on feedback will be undertaken in April and be

, including seeking input from relevant internal

ng paper for the Strategy and Policy Committee ding the potential for on-site water storage to olem of water supply resilience and will include follow-up report, with the completion of work it is understood that this work is not currently

d any associated projects, for example consent

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# 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 IAMs 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.

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## WATER SAFETY PLANS PROJECT

The Water Services Bill 2020 continues to progress through the select committee stage, and the subsequent establishment of *Taumata Arowai* the Water Services Regulator.

Along with review of Council's Water Treatment and Supply Bylaw's there is continued emphasis for the FNDC Asset Compliance Team to meet the milestones in development of the updated Water Safety Plans.

In the last month the work has concentrated on preliminary stages in refining Council's Drinking Water Framework following the Ministry of Health Guidelines for Management of Water Safety Plans.

## FNDC DRINKING WATER FRAMEWORK

Following the guidelines within the Ministry of Health : Handbook for Preparing a Water Safety Plan (May 2019) a dedicated council DWF framework overall approach is being managed.

WSP Preparation												
Components	Subcomponents	Progr	ess thr	ough W	SP pre	paratio	n —	<b>→</b>	Completed WSP			
	1.1 Relationship of WSP to organisational policy and strategy											
1 Commitment to drinking water quality management	1.2 Engaging stakeholders											
	1.3 Engaging community					1.2, 7.1						
	2.1 Water supply system description and analysis											
2 Assessment of the drinking-water supply system	2.2 Assessment of water quality data				1							
	2.3 Hazards and hazardous event identification and risk assessment			2.1, 2.2								
3 Preventive measures for drinking-water quality	3.1 Assessment of existing preventive measures and multiple barriers				21							
management	3.2 Identification of additional preventive measures					8.1						
	4.1 Operational procedures						21, 2.3, 3.1					
4 Operational procedures	4.2 Operational monitoring and inspection							3.1,4.1				
	4.3 Critical control points								3.1, 4.2, 9.2			
	4.4 Corrective actions							3.1,4.1, 81				
	5.1 Drinking-water quality monitoring				23							
5 Verification monitoring programme	5.2 Consumer satisfaction						1.3					
	5.3 Short-term evaluation results							\$1,52				
6 Improvement plan	6.1 Drinking-water quality management Improvement pian						23, 3.1, 3.2, 4.1					
7 Management of incidents and emergencies	7.1 Incident and emergency response plans				23							
8 Documenting and reporting	8.1 Management of documentation and records											
a community and other mile	8.2 Reporting											
9 Investigations	9.1 Investigative studies								2.3, 4.4, 7.1			
5 mestigations	9.2 Validation of equipment, processes and practice								2.1, 41			
	10.1 Long-term evaluation of results								4.2, 5.1, 5.2			
10 Oversight review and continual improvement	10.2 Audit of drinking-water quality management											
	10.3 Review by senior leadership											

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The table below summarises the sections that have been completed. The workstream is at an early phase stage.

No.	FNDC Drinking Water Framework Section	WSP Handbook Section
1.	Commitment to drinking water quality management	1.1, 1.2, 1.3
8.	Management of incidents and emergencies	7.1
9.	Investigations	9.1,9.2
10.	Documentation and reporting	8.1, 8.2
11.	Oversight, review and continual improvement	10.1, 10.2, 10.3

Further ongoing workstreams are progressing as listed below:

### Drinking Water Safety Plans Framework Policy

• The framework policy is going before IAM Risk Committee for review and approval

### Drinking Water Drinking Water Transgression Response Plan

• This document is complete and ready for review and agreement with FNDC and FNW.

#### Monument Hill

- The Operating and Maintenance O&M manual for Monument Hill water treatment plant.
- This document requires some additional inputs and confirmation by FNDC and FNW.

#### List of Standard Operating Procedures

• Review of list of district wide (general) SOPs which has been compiled in the creation of the Monument Hill plan.

#### Drinking Water Supply Management System

• Document Register - this tracks the status of each of the documents

# FISH PASSAGE PROJECT

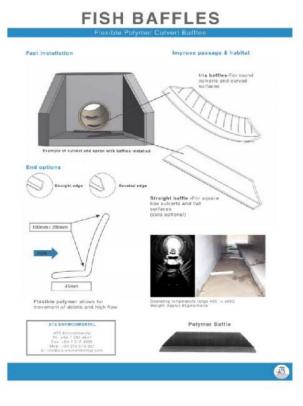
The IAM Compliance Team is pleased to report that fish passage improvements have been completed at Stoney Creek (near Taipa). In due course, a follow up fish numbers survey will be carried out to gauge effectiveness. This is a continuing compliance activity related to improvements at freshwater sources.

Flexible baffles have been installed in all 5 culvert pipes within the ford at Stoney Creek. This creates a deeper, more complex water flow for native fish to navigate through the structure. The picture attached shows the same water flow coming into the culverts but



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demonstrates the difference in depth, speed and complexity of flow that now occurs inside the pipes. This will assist the upstream migration of native fish. Flexible rubber ramps and mussel rope have also been attached at the culvert outlets to alleviate any perch at low water flows.



#### DRINKING WATER STANDARDS - Monitoring strategy and Risk Reporting

Taumata Arowai's recent DRAFT 'Drinking Water Supply Operational Compliance Rules' <u>DRAFT drinking</u> <u>water supply Operational Compliance Rules (dia.govt.nz)</u> has set out the requirements that drinking water suppliers must meet to demonstrate that they are not exceeding the maximum acceptable values (MAV) for microbiological, organic, inorganic, cyanotoxin and radiological determinands which are set out in the 'New Zealand Drinking Water Standards 2005 (revised 2018) effective 1<sup>st</sup> March2019'. A determinand is a constituent or property of the water that is determined, or estimated, in a sample. The National Environmental Standard uses the term 'determinand' rather than 'contaminant' because it has a specific and narrower meaning, as defined in the Resource Management Act (1991).

These rules set out minimum compliance requirements for the supply of drinking water, and suppliers are advised that undertaking further measures depending on water supply circumstances and risks may be prudent.

Some of the marked differences within Taumata Arowai's Compliance Rules include:

- Focus on source water monitoring.
- On-line continuous monitoring at treatment plants post reservoir.
- Daily monitoring of conductivity, temperature, pH and turbidity
- Weekly monitoring of Dissolved organics
- Monthly monitoring of E.coli and disinfection
- Monthly reporting to Taumata Arowai as opposed to the current quarterly reporting to the Drinking Water Assessor
- Calibrations of online analyses monthly rather than quarterly

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• Surface water takes requiring 4 log treatments.

In anticipation for these regulatory changes, continued discussions are being held between Far North Waters and FNDC, with regards to capturing the entire picture and as to the amendments in Drinking water Standards. Further updates will be provided monthly.

# WATER MONITORING SOFTWARE

Linked to the programme of works under the Crown's Three Waters reform package is the adoption of a water monitoring software. Data (and in particular good quality data) is driving the water industry. As we know, data requirements are on the increase with changing legislation and a higher interest from our communities: to demonstrate compliance, to demonstrate performance, to plan and to reduce risk. It is not uncommon that for a council such as FNDC, the typical handling in excess of 30,000 points of manual data points and tens of millions of SCADA data points are taken in each year.

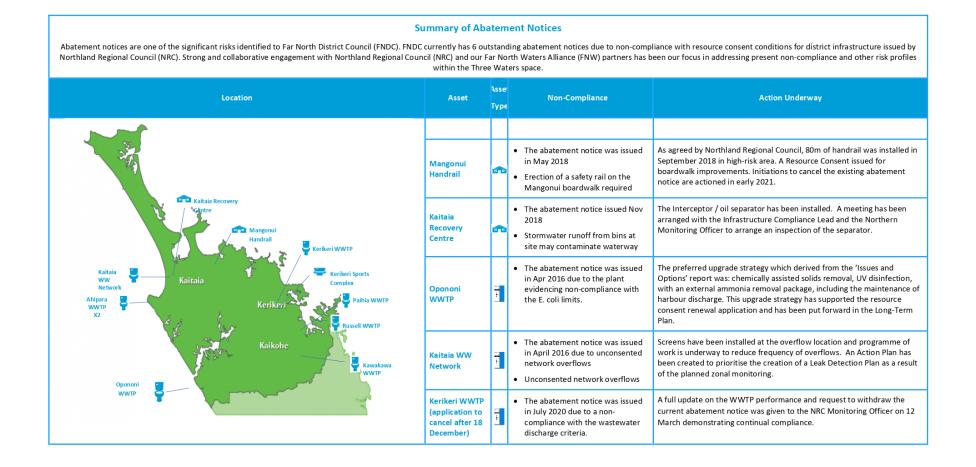
When looking to the future of data management, FNDC posed the following basic questions: what data is needed, where is that data coming from, where does it need to go, what is the quality of the data, what is the chain of custody for that data, how is that data managed, what happens to legacy data, what systems are needed for today's data and how to make provision for future data requirements?

In order to achieve the objective of improving overall efficiency, transparency, reliability and to align with strategic fit, FNDC's data set has been categorised into two priorities:

- 1. Compliance Data: FNDC has an unambiguous and statutory responsibility to record.
- 2. Operational Data: used to verify that plant and processes are operating as designed, to inform planning and other decision-making, and to optimise over time.

The business case for the adoption of the water monitoring software is in its' final stages.

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<b>6</b> 11	Asset		April Status	
Sites	Group	Compliant	Detail	Comment
Kaitaia	4	•	Compliant	
Kaikohe	4-	•	Compliant	
Kawakawa	4-	•	Compliant	
Kerikeri	4- -	•	Compliant	
Okaihau	<u>.</u>	•	Compliant	
Opononi	<u>d-</u>	•	Compliant	
Paihia	<u>4-</u>	•	Compliant	
Rawene	<b>4</b> -	•	Compliant	
Russell	4- -	•	Compliant	
Ahipara		•	Condition 10 Condition 2	• An analysis and recommendation report of the inter stage testing has been commissioned and sent to NRC
Hihi	-	•	Compliant	<ul> <li>The project to upgrade plant is in its initiation phase.</li> <li>DWF Status: Compliant</li> </ul>
Каео	-	•	Compliant	
Kaikohe	-	•	Compliant	
Kaitaia	Ş	•	Compliant	<ul> <li>A zonal metering program for Kaitaia has been scheduled for this financial year. This zonal monitoring will identify all catchments where leaks are present. All 7 chambers have been installed and there is a final step with regards to the monitoring system used to complete the install.</li> <li>DWF Status: Compliant</li> </ul>
Kawakawa	ŧ	•	Compliant	
Kerikeri	ŧ	•	Compliant	DWF Status: Compliant
Kohukohu	ŧ	•	Compliant	DWF Status: Compliant
Opononi	200 200 2	•	Condition 19 - TAN, E.Coli	<ul> <li>An issues and options report has been commissioned by FNW Process Engineer and will be sent to NRC upon completion.</li> <li>DWF Status: Compliant</li> </ul>

Sites	Asset		April Status	Comment
Siles	Group	Compliant	Detail	Comment
Paihia	Ŧ	•	Condition 9 – NH4 – N Condition 13 - pH	<ul> <li>A performance and report and long-term solution proposal has been finalised which has now been sent to Far North District Council Asset Management and Project Delivery for approval. Further update will be provided in March's report.</li> <li>In the short term, the planned daily chemical dosing began on 6 November demonstrating compliance.</li> <li>DWF Status: Compliant</li> </ul>
Rawene	÷.	•	Compliant	DWF Status: Compliant
Rangiputa	1	•	Compliant	DWF Status: Compliant
Russell	ŧ	•	Condition 9 - infiltration efficiency report Condition 8 - land instability report	Infiltration efficiency and land stability reports commissioned and will be sent to NRC upon completion.
Taipa		•	Condition 2	<ul> <li>Resource Consent issued on 8 March</li> <li>DWF Status: Compliant</li> </ul>
Whatuwhiwhi	<b>F</b>	•	Condition 8 – Total Suspended Solids	<ul> <li>To assist in the mitigation of TSS (algae biomass), FNW and FNDC are in discussions with regards to prioritising desludging.</li> <li>DWF Status: Compliant</li> </ul>

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



# 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

April has seen continuation of the key projects previously noted:

- Finalising the 3 Waters and District Facilities LTP for the consultation period
- Final audit queries for the Combined Asset Management Plan (AMP) for 3 Waters and District Facilities (required for Audit purposes)
- Data migration for the implementation of the new Asset Management System (AMS) - IPS (INFOR)
- Final scopes for the FY20/21 Capital Works Programme and planning for FY21/22
- Asset Condition Assessment programme for FY21/22

The Procurement plan for the FY20/21 3 Waters Condition Assessment Plan was completed and approved. This data will feed into Programme Darwin and work is underway as to how that happens from both storage and usage of data perspectives.

The final LTP deliberations workshop is taking place on 13<sup>th</sup> May and with that will be the finalisation of the 16 months of effort and asset planning for the 3 Waters and District Facilities Capital programme for LTP. This has been a monumental task and one which Asset Management are proud of.

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Key: •	Complete	• In progr	ess • F	Parked			<b>**</b>	1111	<b></b>	<u>8</u> -
							Stormwater	<b>District Facilities</b>	Wastewater	Water
Activity	Asset Group	Concept	S Plan	tatus Deliver	Handover	Expected Completion	Comment			
Strategies / Plans / Policies										
Living Asset Management Plan (LAMP)	All	•	•			FY21/21 – FY22/23		s with the implementation of IN Programme Darwin section for	IFOR a draft of the LAMP has beer further details).	n set back and is not
Combined Asset Management Plan (3 Waters and District Facilities)	All	•	•	•	•	FY20/21 – FY21/22	Facilities was pre	pared and provided to Audit <b>(t</b>	ng-Term Plan (LTP) process, a com his is required for audit purposes uncil's website. This will likely occ	<b>only)</b> . Upon finalisa
Asset Management Strategy	All	•				FY22/23		based on review being done fo strategy in place by end of June	r the 30 Year Infrastructure Strate 2023.	gy by Infrastructure
Annual Plan (AP)	All	•				FY21/22	Contribute to An FY20/21.	nual Plan project, coordinated l	by Strategic Planning & Policy. No	t required again unt
Long-Term Plan (LTP)	All	•	•	•	•	FY19/20 to FY20/21	planning being co	onsidered for the next round. T	e FY21/31 LTP in February 2020. T The 2 <sup>nd</sup> round for Auditing the LTP cur end of June will adoption of LT	consultation docum
ISO55000	All	•				FY21/22	-	ed. This will align with the curre ta standards being developed.	ent International Infrastructure Ma	anagement Manual (
Stormwater Strategy		•	•	•		FY20/21 – FY21/22			vay forward is being planned for v ken with key stakeholders namely	
Stormwater Catchment Management Plans	<u></u>	•	•	•		Underway	Underway – FY1	9/20 to FY21/22 (3-year process	5)	
Vesting Assets to Council Policy	All	•				FY22/23	Consulted with A consulted in due		ocess is to be drafted / process ma	apped. Other parts
Asset Identification / Condition	Assessme	ents								
Prioritised Scheduled Asset Condition Assessments	All	•	•	•		FY21/31	spend for this FY	(FY20/21) is underway and will	h amounts to a total spend of \$9n be out to market by April 2021. A r on a fixed-term contract for 18 n	A Project lead for the
Inventory Assessment - DF Assets		•	•	•	•	Ongoing	n/a			
Major Project Pipeline – Initiati	ons - Inclu	des plannir	ng, feasil	bility studi	ies, options	assessments, k	ousiness casing etc	. before handover to Project De	livery	
Hihi WWTP		•	•	•		FY22/23	was presented to	o Infrastructure Committee 24 N less Case and passed resolution,	ing applied for through Infrastruct March 2021 for endorsement to C , was rescinded at Council meetin	ouncil. Resolution w
East Coast (Taipa) WWTP	i.		•	•		FY20/21 – FY22/23	to be established to assess the opti	. The group met for the first time ons for disposing of treated wast September 2022. If the BPO is la	rking group (WG) consisting of senic e in March and will meet monthly ov ewater (including land disposal opt and disposal then NRC must be notif	ver the next year. This ions) and to provide a
Other										
Asset Management System	All	•	•	•		FY20/21- FY22/23	Full operational	use of INFOR ('Go Live') is now e	expected for December 2021 <b>(plea</b>	ase refer to Program

<b>\$</b>
Roading
t likely to be realised until June 2022.
anagement Plan for 3 Waters and District ation of the LTP and audit sign-off, the AMP 121 (post audit sign-off in August 2021).
e Planning for the next LTP (FY21/31). The
til FY21/22 due to current LTP work in
eing looked at in-depth and future asset nent and processes is w/c 12 April and 17
(IIMM) and will need to incorporate the
workshops to commence June 2021 cc.
of Council i.e. SPP, Legal and Finance will be
procurement package for the \$1.5 mil e Asset Condition Programme for the next 3 have this lead in place by July 2021.
The report, with supporting Business Case, was passed for said. The report, with New Resolution passed and is being worked
i Kahu hapu and community representatives ne first milestone to be achieved by the WG is a report to NRC with the best practicable hether or not Council, it is committing to the

amme Darwin for full details).

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Key: ●	Complete	• In prog	ress • F	Parked			Stormwater	District Facilities	Wastewater	Water
	Asset		S	tatus		Expected	Comment			
Activity	ivity Group Concept Plan Deliver Handover									
Stormwater modelling requirements		•	•	•		FY20/21 – FY21/22	As per the SW Ca	atchment Management Plan (CN	ЛР) strategy, the models for SW w	vill take in excess of 2
Water modelling requirements	1 1 1	•	•			FY21/22 – FY23/24	Waters Modelling current models a	g Lead is currently being recruit	ecruit a project lead for this work ed for on a fixed-term basis for 18 vard for updating of all FNDC mod	8 months. Consultants
Wastewater modelling requirements	i.	•	•			FY21/22 – FY23/24	As above			
Data Cleanse / Tidy Up	All	•	•	•	•	Underway	A continual proce	ess but aim to have it completed	d prior to Phase 1A implementatio	on of the new AMS (De



(December 2021).

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# 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

- Another busy month for the District Facilities staff. A replacement for the Technical Officer position is yet to be filled although the position has been advertised three times.
- Work progresses to ensure the MBIE Flood funding received is spent and work programme completed by 31 May 2021.
- Increasing number of illegal dumping issues continue to be received.
- The application to transfer the Rolands Wood Trust and fund from Council to the Friends of Roland's Wood Trust has been approved by the High Court.
- The Kaitiaki Rangers programme, funded via MBIE: TIF Responsible Camping envelope has ended and again, by all accounts has been another hugely successful campaign. Positive comments from all areas where the programme was rolled out esp. at the new locations of Russell and Kawakawa.

## Positive Feedback – April

Verbal comments thanking staff involved with the 2020-21 Kaitiaki Rangers for securing funding so the programme could include the locations of Russell and Kawakawa.

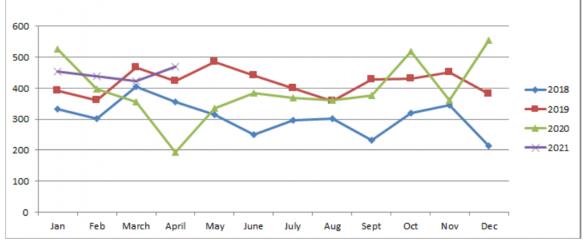
An email from the recently resigned Chair of the Friends of Rolands Wood Trust for pursuing the matter to the High Court so the Trust can now take responsibility and care of Rolands Wood, Kerikeri.

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## CUSTOMER EXPERIENCE PROGRAMME

RFS numbers continue to be high for District Facilities. These figures do not include CE or Mayoral RFS's.

	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	TOTAL
2018	332	302	406	355	314	251	296	301	231	320	346	214	3688
2019	392	360	466	423	486	440	401	359	428	431	451	381	5081
2020	527	396	355	193	336	385	370	360	377	519	361	555	4734
2021	455	439	422	470									1786



District Facilities – Monthly RFS numbers

# HEALTH AND SAFETY UPDATES

#### **Recreational Services**

ACCIDENT TYPE	Jan '21	Feb '21	Mar '21	April '21	May '20	June '20	July '20	Aug '20	Sept '20	Oct '20	Nov '20	Dec '20
Near Miss	0	0	0	0	0	0	0	0	0	0	1	0
Vehicle / machinery near miss	1	3	0	1	0	3	0	0	3	0		0
Non-serious harm	2	1	1	0	4	1	0	0	0	2	1	0
Serious harm	0	0	0	0	0	0	0	0	0	0		0
Vehicle / Machinery accident	0	1	0	0	0	1	0	0	0	0		0

Machinery - Other:

While water blasting pavements in Kerikeri the brass swivel joint on the reel shattered into 3 pieces and flew approximately 15 meters in different directions. Luckily no one was injured and no damage to shop windows

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ACCIDENT TYPE	Jan '21	Feb '21	Mar '21	April '21	May '21	June '21	July '21	Aug '21	Sept '21	Oct '21	Nov '21	Dec '21
Near Miss	0	1	0	0								
Vehicle / machinery near miss	0	0	0	0								
Non-serious harm	0	0	0	0								
Serious harm	0	0	0	0								
Vehicle / Machinery accident	0	0	0	0								

#### OCS (Cleaning contractor for Council buildings)

## Waste Management (Southern RTS and CRC's)

ACCIDENT TYPE	Jan '21	Feb '21	Mar '21	April '21	May '20	June '20	July '20	Aug '20	Sept '20	Oct '20	Nov '20	Dec '20
Near Miss	0	0	0	0	0	0	0	1	0	0	0	0
Non-serious harm	0	1	0	1	0	0	4	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

Non-serious harm:

• A number of 'night visitors' have been reported with people entering premises to pick over waste. Fence repairs completed.

Northland Waste (Northern RTS and CRC's)

ACCIDENT TYPE	Jan '21	Feb '21	Mar '21	Apr '21	May '20	June '20	July '20	Aug '20	Sept '20	Oct '20	Nov '20	Dec '20
Near Miss	0	0	0	0	0	0	0	1	0	0	0	0
Non-serious harm	2	1	1	4	1	3	3	0	0	2	1	0
Serious harm	0	0	0	0	0	0	0	0	0	0	0	0
LTI	0	0	1	1	0	0	0	0	0	0	0	0
Vehicle / Machinery accident	1	0	0	0	0	0	0	2	1	0	0	0

Non-serious harm:

- Taipa theft of 8 bins, fence was cut to gain access. Fence has been repaired.
- Kohukohu theft of full saw dust bin.
- Property damage to closing roller door, the door had unraveled repair required.
- Broadwood customer complaint regarding Community Recycling Centre operator.

LTI

• Staff member dislocated hip (second time) while picking up a shovel load of litter they had swept up.

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ACCIDENT TYPE	Jan '21	Feb '21	Mar '21	Apr '21	May '20	June '20	July '20	Aug '20	Sep '20	Oct '20	Nov '20	Dec '20
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

## Ventia / Broadspectrum (Russell RTS and landfill)

## **CBEC Eco Solutions** (Waste Education Contract)

ACCIDENT TYPE	Jan '21	Feb '21	Mar '21	Apr '21	May '20	June '20	July '20	Aug '20	Sep '20	Oct '20	Nov '20	Dec '20
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

# HAPORI AQUATICS (Swimming Pools)

Kerikeri Pool : No incidents to report this month

Accident Type	Oct '20	Nov '20	Dec '20	Jan '21	Feb '21	Mar '21	Apr '21
Near miss	0	0	0	0	0	0	0
Non serious harm	0	3	6	1	3	2	0
Serious harm	0	0	0	0	0	0	0
LTI	0	0	0	0	0	0	0
Vehicle / Machinery accident	0	0	0	0	0	0	0
Incident only	0	0	0	2	0	2	0

Kaitaia Pool: No incidents to report this month

Accident Type	Oct '20	Nov '20	Dec '20	Jan '21	Feb '21	Mar'21	Apr '21
Near miss	0	0	3	0	0	0	0
Non serious harm	0	0	0	0	0	1	0
Serious harm	0	0	0	0	0	0	0

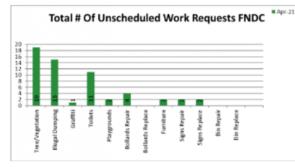
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Accident Type	Oct '20	Nov '20	Dec '20	Jan '21	Feb '21	Mar'21	Apr '21
LTI	0	0	0	0	0	0	0
Vehicle / Machinery accident	0	0	0	0	0	0	0
Incident Only	0	0	0	3	1	5	0

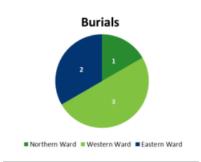
Kaikohe Pool: No incidents to report this month

Accident Type	Oct '20	Nov '20	Dec '20	Jan '21	Feb '21	Mar '21	Apr '21
Near miss	NA	0	1	0	0	0	0
Non serious harm	NA	1	0	0	0	0	0
Serious harm	NA	0	0	0	0	0	0
LTI	NA	0	0	0	0	0	0
Vehicle / Machinery accident	NA	0	0	0	0	0	0
Incident Only	NA	0	0	0	0	0	0

# **RECREATIONAL SERVICES**



Number of unscheduled works requested by FNDC



Number of burials at Council public cemeteries

### **RSL Internal Audits**

LOCATION	Jan '21	Feb '21	March '21	April '21	May '21	June '21	July '21	Comment
Mowing	100		97.7	98				
Edging	100		100	99.4				
Gardens	100		98.6	99.1				
Playgrounds	100		100	99.4				
Town maintenance	91.7		98.8	97.2				
Toilet maintenance	98.7		96.4	96.8				

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LOCATION	Jan '21	Feb '21	March '21	April '21	May '21	June '21	July '21	Comment
Cemeteries								
Furniture	100		100	99.4				
TOTAL INTERNAL	97.9		98.6	98.3				

Council Audit of RSL

2020-21	Jan '21	Feb '21	Mar '21	April '21	May '20	June '20	July '20	Aug '20	Sep '20	Oct '20	Nov '20	Dec '20
Met	16	8	8	11	6	4	14	NC	16	10	6	0
Not met	0	1	0	0	2	1	2	NC	0	2	0	0
Non-performance Notice	0	0	0	0	0	1	0	0	0	0	0	0

April 21 AUDIT DETAILS	Met	Not met	Non- performance notice	Not met / comments
Reserve mowing	3	0	0	Kent Bay, Whangaroa, Ratcliffe Bay
Edge control	3	0	0	Kent Bay, Ratcliffe Bay, Whangaroa
Playground	0	0	0	
Cemetery	0	0	0	
Toilets	6	0	0	Whangaroa, Lilly Pond, Ratcliffe Bay, Matauri Bay, Tauranga Bay, Taupo Bay
Litter and Town Maintenance	0	0	0	
CONTRACT AUDIT				
Unscheduled	0	0	0	
Contract	12	0	0	
TOTAL	12	0	0	

Internal audits achieved this month

# PARKS AND RESERVES

### Doubtless Bay

The signage requested following the Coroner's report concerning Mr Renata's death in January 2018 have been finalised. Signs will be erected at Cable Bay, Coopers and Taipa Beach.

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## PLAYGROUNDS

Following a playground inspection, many of the playgrounds around the District are due to have a top-up of softfall throughout May.

## TREE MANAGEMENT

#### Wildling Pine Removal Program

Wilding pine removal a joint initiative involving FNDC, NRC & DOC continues across the District e.g.:

- Ramp Rd, Karikari scheduled to start on or around 8 June in the reserve behind the public toilets
- Russell and Bay of Islands a scope is currently being prepared by NRC in conjunction with Council identifying
  pines that should be removed on Council owned land.

#### Redwoods, Kerikeri

An additional report to the BOI-Whangaroa Community Board will be presented to their June meeting. The arborists report's to date continue to identify the impact neighbouring development is having on the trees.

#### Moreton Bay Fig, The Strand, Russell

A report to the BOI-Whangaroa Community Board concerning the health of the Moreton Bay Fig will be presented to their June meeting. The report includes information from Arborlab who assessed that, using the Quantified Tree Risk Assessment (QTRA) framework, the most likely failure event within the identified risk analysis timeframe, has an Annual Risk of Harm (AROH) of 'Broadly Acceptable'.

#### Palms

Increasing concerns continue to be presented to Council regarding the palms in Cannon Drive, Fairway Drive, Blue Marlin Drive and the Kerikeri CBD. A cost to remove as much of the fronds as possible, without damaging the palms has been received and work will start late May, early June. It is proposed these works will be carried out annually.

Work and costings will also be considered palms located on the berm at Bayside Drive, Mangonui, in Centennial Park, Kaitaia, around Paihia and in the western ward.

It is envisaged such works will be carried out on an annual basis until such time as a decision is made concerning the future of these palms and whether they are to be maintained or removed.

#### CEMETERIES

#### Kaitaia Cemetery

Issues with new plots sinking, due to heavy rainfall. RSL are aware of this issue over the winter months and are quick to react once they have been advised.

## PUBLIC TOILETS

#### Klinac Lane, Waipapa

Project work continues to separate the Klinac Lane toilets from the private RCG Body Corp (Mitre 10) system. This should alleviate the pressures experienced every peak season with the influx of visitors and shoppers.

#### Stone Store Public Toilets, Koropiro Pa Walkway - Kerikeri

Portaloos are still in place while DoC decide what they need to do at this site.

#### General

All public toilets continue to display COVID QR codes.

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### ENCROACHMENTS

#### Te Hue Bay, Russell

The boat has now been removed from the reserve and the encroachment issue fully addressed.



Te Hue Bay, Russell – illegal structures have been removed

#### Cable Bay, Mangonui

A letter has been sent to the new owners of Driftwood Lodge advising them they have until December 2021 to remove offending structures, esp. those that give the public the impression that they are entering and / or on private property.

#### General

Encroachment issues continue to be received and investigated however due to other priorities and staff capacity, some matters are not being investigated as quickly as expected.

### 2020/21 MBIE RESPONSIBLE CAMPING FUND

The 2020/21 season has ended with many positive comments received.

The final MBIE report will highlight key findings and comments from the Rangers concerned. Feedback to date includes the need to continue this programme and to extend it to the western area, esp. Omapere / Opononi and Taupo / Tauranga Bay, if MBIE decide to continue with funding Responsible Camping initiatives.

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## 2020/21 MBIE FLOOD FUND

All physical works MUST be completed by 31 May 2021. As such, an update on the projects District Facilities are managing is as follows:

Ward	Location	Comments	End of April:									
North	Kaka Street, Ahipara - ramp	Initial works completed. Additional works will be addressed as part of BAU as ongoing deterioration is expected each time there is a considerable weather event.	Before       After         Image: After state st									
North	Puckey Ave, Kaitaia Pensioner Village	The previous chip sealed driveway has been resealed. Works completed including lifting areas where low lying flooding issues previously presented.	Before     After       Image: Second s									
North	Ahipara - foreshore road near toilets	Archaeological assessment complete public toilets.	aeological assessment completed and report received. RSL to start on repairs to the seawall immediately around the Foresho ic toilets.									
North	Kaitaia Cemetery	Repairs to the internal road has been completed.	Before After									
North	Hihi Beach	Removal of trees on the Hihi coastline that fell during the 2020 storm, has been completed with a second round of spraying, planting and mulching to be done.										
East	Kaeo car park	Work onto reseal the car park was d	delayed. At this time of writing this report, the work had started.									
East	Te Wahapu	Works to stabilise and improve the walkways after the 2020 weather events have been completed.										
East	Seaview lookout, Paihia	Track surface and drainage improvements completed. Signage required before project is completed.										



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Ward	Location	Comments	End of April:						
East	Kawakawa bowling club access	The driveway was affected by surface water flooding and in places washed out. Base preparation underway and chip-seal scheduled for 24 May.							
East	Opua-Paihia walkways	Shell dusting complete and rock stab	ilisation works underway.						
East	Jacks Bay walking track	Coastal erosion issues addressed							
East	Paihia Beach	Beach cleaned up and remedial work carried out as needed – project completed.							
East	Pah Road, Kerikeri	Works started to rectify issues with t	he end of cul-de-sac that has not been properly formed.						
East	Wharau Road, Kerikeri	This project was pulled due to issues	with the proposed works and timeline constraints.						
East	Moerewa Illegal dumping clean-up	Work to clear the overgrowth and re This project has been handed back to The level of asbestos contamination	empty section located between Otiria Road & Ranfurly Street, Moerewa. ork to clear the overgrowth and remove rubbish / uncovered asbestos. s project has been handed back to the Roading Team to continue. e level of asbestos contamination has been determined and savings from other MBIE Flood Funding projects have been nsferred to this project to cover on-going decontamination costs.						
East	Kaeo Service Centre	from the hill, around the Service Cen	ues at the rear of the service centre, from further up the hill. Stormwater comes rushing down stre building, bringing silt onto the footpath etc. n delayed due to supplier issues. Drainage works assessed and scheduled for starting 17 May. his project may require reassessing.						
West	Omapere and Opononi foreshore	Fencing at Freese Park, Omapere has been completed. Other sections of fence started with posts & railings. Block/rock placement work scheduled from 17 May.							
East	Moerewa Community Recycling Centre	Completed re-metalling of area wash	ned away in 2020 weather events.						
North	Ahipara Refuse Transfer Station	Completed re-metalling of area wash	ned away in 2020 weather events.						
West	Pawarenga Community Recycling Centre	Completed re-metalling of area wash	ned away in 2020 weather events.						
East	Totara North Community Recycling Centre	Completed re-metalling of area wash	ned away in 2020 weather events.						

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## SOLID WASTE

#### Waitangi Community Recycling Centre

The TB3 Trust has signed a lease that enables the establishment of a community recycling centre on the Trust's land in Waitangi. Waste Management has signed a contract variation covering the rates to operate the site. The proposal is with Council management awaiting the final approval.

#### Range of plastics accepted at FNDC sites

Plastic markets continue to be volatile, and it is hard to determine what markets for products are available and will continue to be available.

Staff have been in contact Plastics NZ's regarding their circular economy for plastics programme. This programme is funded through the Waste Minimisation Fund. One of Plastics NZ's workstreams is facilitation of nationwide working groups to help connect our national systems for different material streams. Essentially, they try to connect collectors of waste plastic with NZ manufacturers who want to buy the product.

Markets for #5 plastic seem to be stabilising and we are investigating accepting theses at Council facilities. On the other hand, markets for Coloured PET have collapsed and our contractors are currently stockpiling this material.

#### Ahipara Landfill closure

The Ahipara landfill closure plan identified an old section of the landfill that was inadequately capped when it was completed over 30 years ago. The recapping work required the stripping of topsoil then the compacting of imported clay. This work has now been completed. The next step is to engage a surveyor to map the final contours.

## ECOSOLUTIONS WASTE MINIMISATION EDUCATION – APRIL NEWSLETTER

Schools; 12 lessons taught and 29 hours of school support.

Kerikeri Primary School has been busy revamping their worm farm and working on a garden bed for rongoa made of upcycled materials.

Kerikeri Kindy kids did a treasure hunt and discovered what is rubbish and what is recycling; they then learnt about reusing making wetbags from old tents.

Whangaroa college and Tekamura o Hohepa engaged with litterless lunches and made their own beeswax wraps.

Kerikeri Preschool learnt about rubbish and recycling and kids engaged with setting up their worm farm and learnt how to look after it.

Oruaiti was awarded their Silver WasteWise award which provided a great opportunity to check their systems. Their worm farm needed help as the worms were dying off. There is great hope for the new worms as children are to be trained as worm farmers in term 2

Taipa Area School (TAS) got back to basics on recycling with the juniors (Y1–Y4) and are interested in reuse and resources lessons in term 2.

TAS is keen on rewarding and acknowledging lunchtime waste warriors and we have been invited to talk and promote this initiative at assembly in term 2.

Mangonui School have been busy upgrading their knowledge on worm farming and are looking into extending their systems. They are also increasing their lunchtime litter picking which has tremendous positive impacts as there is less and less litter to be picked.

Riverkids did a regular river clean up with Riverkids - picked up 2.5 bags of litter and sorted it into recycling and re use. The kids were excited to re-use the fishing line that we picked up for hanging art.



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Kaikohe West school did their WasteWise audit and discovered that better signage will help people put things in the right bin. This will help improve them even further.

A new resource was developed which is electronically available for schools to use on Microplastics.

EcoSolutions has been working hard with all schools that are part of the lunch in schools programme to ensure that the waste is being diverted from landfill.

They have been offed advice, support and education to schools and



providers about the sustainability of single use options used for lunches and how to deal with compostable packaging. We have also been working with providers on reusable options.

This ranges from conversations with principals and admin staff at Kaeo Primary, Whangaroa College, Kaikohe West schools to emails to all participating schools offering services and advice towards more sustainable practices.,

#### Communities

- Whangaroa Teaching gardens are planning a composing workshop to get the local community involved in gardening and composting.
- Waimamaku had a beach clean-up and the Waimamaku community centre has a beeswax wrap workshop as well as a composting workshop.
- Opua did a community clean up and clothing was diverted form landfill by the "Paihia Swap Don't Shop" clothing swap.
- A facebook post was created on plastic in teabags which got more then 2K hits.
- Clothing rescue in Kaitaia diverted more than 1 tonne of fabric from landfill this month.
- EcoSolutions is working on collaboration with Kaitiaki o Tokerau do community workshop on waste minimisation and on collaboration with local Kura.
- A Hugelkulture workshop worm tower workshop as held in Paihia with a focus on composting and repurposing.





#### Businesses

Businesses have been approached and conversations have been had about waste reduction as a business practice with a look into participating as an ecostar business. Flying Fish in Paihia, T Café & Bakery, Bouquets on Broadway in

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Kaikohe, Community Law in Kaikohe, Unichem Pharmacy in Kawakawa and Circle D construction have been met with.

Waitangi national Trust had support with their recycling systems and signage.

Hardy's Kerikeri, Kaitaia Budgeting Service and FNEC budgeting all had their waste audit done. Hardy's achieved Gold ecostar status, the others are still awaiting their results.

#### Event organizers

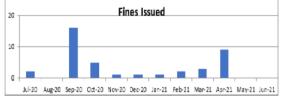
Nga Purapura festival had great waste diversion this year 95% of waste diverted form landfill, signalling great practices to our tamariki and showcasing that celebrations do not have to cost the earth. The event was well visited despite adverse weather conditions. The event organisers were supported with a waste management plan, training of volunteers, stall holder information, composting follow up and signage and support on the day.

Pompalliers Children's festival received recycling system support and the Anzac Day celebrations in Kaeo Memorial Hall had support with their recycling systems set-up for the weekend.

## LITTER INFRINGEMENT ACTION

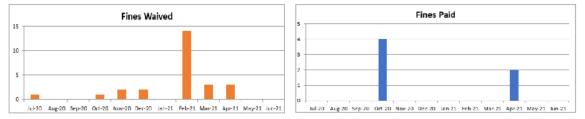
#### April actions:

Offence Date	Offence Type	Status	Balance	Location Details
28/11/2020	Deposited litter in/on a public place \$250 20-120L	2 <sup>nd</sup> Notice	\$250	On Street: Totara North road, Kaeo LOCATION: Community Recycling Centre Gate
02/02/2021	Deposited litter in/on a public place \$250 20-120L	2 <sup>nd</sup> Notice	\$250	On Street Taupo Bay Road, Mangonui. LOCATION: SH 10 Intersection Mangonui
03/02/2021	Deposited litter in/on a public place \$250 20-120L	Completed (Exemptions)	\$0	On Street: Larmer Road, Kaitaia LOCATION: SH1 Intersection
24/03/22021	Deposited litter in/on a public place \$250 20-120L	1 <sup>st</sup> Notice	\$250	ON Street: Rangitane Road, Kerikeri LOCATION: Redcliffes road Intersection
24/03/22021	Deposited litter in/on a public place \$250 20-120L	Completed (Receipting)	\$0	ON Street: Rangitane Road, Kerikeri LOCATION: Redcliffes road Intersection
24/03/22021	Deposited litter in/on a public place \$250 20-120L	1 <sup>st</sup> Notice	\$250	ON Street: Rangitane Road, Kerikeri LOCATION: Redcliffes road Intersection
26/01/22021	Deposited litter in/on a public place \$250 20-120L	1 <sup>st</sup> Notice	\$250	ON Street: Rangitane Road, Kerikeri LOCATION: Redcliffes road Intersection
03/02/2021	Deposited litter in/on a public place \$250 20-120L	Issued	\$250	ON STREET: Ruaroa Road, Kaitaia. LOCATION SH1 Intersection
03/02/2021	Deposited litter in/on a public place \$250 20-120L	Issued	\$250	ON STREET: Kaitaia-Awaroa Road, Herekino. LOCATION Herekino Refuse Transfer Station



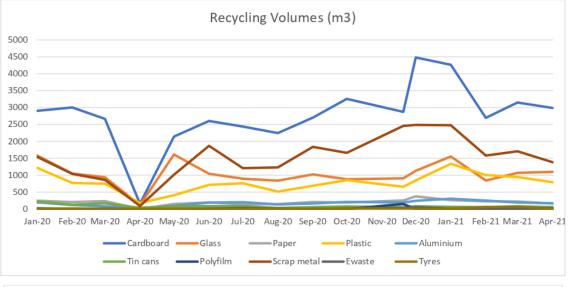


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Discussions continue with the Compliance and Monitoring Team regarding the process for customer services when a member of the public phones or writes to dispute the infringement.

## SOLID WASTE STATS





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## SWIMMING POOLS



Kaitaia Pool

The pools are now closed for the winter season and the Winterisation maintenance planning has begun. A credit note has been received from Hapori for the \$6900.00 re an issue with a COVID-19 invoice.

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#### Kerikeri Pool

A quote of nearly \$8000 was received for investigations into the leaks at the Kerikeri pool. Consideration needs to be given as to how much we are prepared to spend investigating the leak and balance it against the cost of water.

Hapori have also had additional conversations with other pool contractors and it is felt that rather than laying out this cost for investigations, which may not be conclusive, it is worth systematically addressing the areas which are most likely to be causing the leak(s).

The dive pool is due to be painted and the valves need servicing, both are scheduled maintenance items and should reduce water loss if not eliminate it.

It is also worth considering installing meters on the inlets to each of the three pools to help identify the areas of concern, especially as there may be leaks elsewhere such as toilet / shower blocks.

This would be an expensive exercise, the Kaikohe check meter cost \$2110 + GST.

Outstanding maintenance issues:

- Power socket not working on fence at end of main pool required for vacuuming pool deemed unsafe.
- Roller door to Chemical shed requires new door. We would consider this to be a chattel of the facility and not an operating cost. Staff have gone through the whole season with this H&S issue.
- Girls toilet door still waiting to be fixed or replaced. H&S issue

#### Kaikohe Pool

A leak continues at the Kaikohe Pool - both within the pool structure and also to the waste valve. It is hoped that funds can be found to service theses valves and address the condition of the pool shell. As for the Kerikeri pool, a quote of nearly \$8000 was received for investigations into the leaks. It is probable that the leak is in one or all of three areas, the pool shell, the sparges at the bottom of the pool and the waste valve which is known to have a leak.

As the pool is ageing and repairs will be required more frequently, decisions need to be made about the on-going operation and associated costs. At the beginning of the season it was decided to take a short-term approach to the pool maintenance as the future of the pool is unknown.

It was noted that there was space allocated for a pool facility as part of the proposed Lindvart Park development plan.

An agreement is being progressed by the Council and Northland College which provide a clearer division of maintenance responsibilities between the two parties.

Outstanding maintenance issues:

- Valve on waste pipe not fully shutting.
- Awaiting quote from Far North Pools Limited and Stonecraft to re seal expansion joints and paint pool. Effort is being made to source a third quote.

#### Kaitaia Pool

Security remains an issue at the site because of its isolated position. There have been several break-ins where valuables have been taken but one of the main issues of concern is youths swimming unattended at night and the safety risk it poses. Locks have been replaced and repairs have been made to the alarm system. Additional security options being considered include additional patrols or a remotely monitored security camera. A remote video link to the police station was costed and has proved to be very expensive.

Maintenance works carried out this month

- A new chlorine pump has been installed and the loan returned to the supplier.
- Flood lights not working, electrician made safe and has one of eight working. Another floodlight has crashed to the ground, brackets completely rusted away. This should be addressed as part of the security assessment

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## ATTENDANCE NUMBERS

## KAITAIA SWIMMING POOL

	Oct	Nov	Dec	Jan '21	Feb	March	April
Entries	182	577	787	1404	456	165	51
Concessions	144	541	845	984	371	339	57
Under 5s	48 169		340	383	153	60	6
Supers (Gold Card)	Card) 1 58		51	83	27	48	8
Spectators	80	196	421	502	229	158	19
Lane Hire	8	26	0	10	3	51	0
Events	Events 482		362	0	0	1287	0
Schools	Schools 93 381		1029	0	1204	1418	75
Total	556	2430	3835	3283	2420	3526	216

KERIKERI SWIMMING POOL

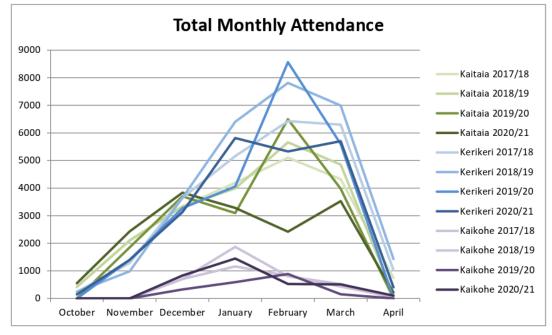
	Oct	Nov	Dec	Jan '21	Feb	March	April
Entries	36	221	865	1696	581	191	0
Concessions	62	587	1206	2362	953	403	3
Under 5s	10	71	234	599	225	55	0
Supers (Gold Card)	13	106	133	312	164	88	3
Spectators	27	329	535	784	1421	1229	0
Lane Hire		85	160	62	296	169	0
Events			0	0	0	0	0
Schools			0	0	2004	3564	397
Total	148	1399	3133	5815	5331	5699	403

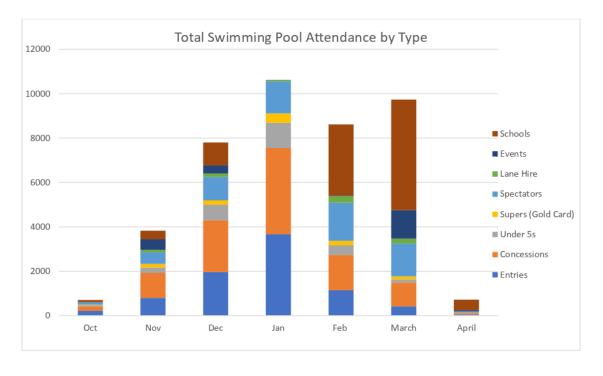
KAIKOHE SWIMMING POOL

	Oct	Nov	Dec	Jan '21	Feb	March	April
Entries			310	572	104	59	0
Concessions			290	537	270	326	4
Under 5s			116	159	53	30	4
Supers (Gold Card)			18	25	15	4	0
Spectators			99	155	68	93	35
Lane Hire			0	0	1	0	0

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	Oct	Nov	Dec	Jan '21	Feb	March	April
Events			0	0	22	0	58
Schools			0	0	0	0	0
Total			833	1448	527	512	101





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## POOL REVENUE (exclusive of GST)

## KAITAIA SWIMMING POOL – Income

Month	Oct	Nov	Dec	Jan '21	Feb	March	April
Gate	\$347.82	\$3,272.00	\$4,451.00	\$6,142.59	\$1,885.22	\$760.87	\$193.00
Pool Hire	\$330.00	\$3,725.00	\$4,545.00		\$4,301.09	\$6,459.78	\$221.74
Shop	\$18.20	\$205.60	\$319.00	\$386.52	\$132.17	\$62.61	\$3.00
TOTAL	\$696.02	\$7,202.60	\$9,315.00	\$6,529.11	\$6,318.48	\$7,283.26	\$417.74

**KERIKERI SWIMMING POOL – income** 

Month	Oct	Oct Nov		Jan '21	Feb	March	April
Gate	\$268.00 \$2,323.00 \$5,		\$5,575.00	\$8,598.26	\$3,028.70	\$950.43	\$0.00
Pool Hire	Pool Hire         \$0.00         \$622.50         \$963.75		\$135.00	\$3,795.65	\$5,830.43	\$960.87	
Shop	\$0.00	\$54.00	\$83.00	\$137.00	\$23.47	\$18.26	\$0.00
TOTAL	\$0.00	\$2,999.50	\$6,621.75	\$8,870.26	\$6,847.82	\$6,799.12	\$960.87

KAIKOHE SWIMMING POOL - income

Month	Oct	Nov	Dec	Jan '21	Feb	March	April
Gate	\$0.00	\$0.00	1,517.00	2,376.00	862.61	345.22	0.00
Pool Hire	\$0.00	\$0.00	\$0.00	\$0.00	147.83	0.00	591.30
Shop	\$0.00	\$0.00	12.00	18.26	7.83	0.00	0.00
TOTAL	\$0.00	\$0.00	1,529.00	2,394.77	1,010.44	\$345.22	\$591.30

## TOTAL SWIMMING POOL INCOME

Month	Oct	Nov	Dec	Jan '21	Feb	March	April
TOTAL	\$696.02	\$10,202.10	\$17,465.75	\$17,794.14	\$14,176.74	\$14,427.60	\$1,969.91

## COMMUNITY / COUNCIL FACILITIES

## OCS Audits

LOCATION	Nov '20	Dec '20	Jan '21	Feb '21	March '21	April '21	May '21	June '21	July '21	Comment
Kaikohe Headquarters - Lockwood	96.7	96.9	97.4	97.4	96.1	97.0				
Kaikohe Headquarters – Annex and upstairs	96.7	96.9	97.3	96.8	95.1	96.1				

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LOCATION	Nov '20	Dec '20	Jan '21	Feb '21	March '21	April '21	May '21	June '21	July '21	Comment
Kaikohe Headquarters – Publications	96.7	96.9	92.1	97.5	97.1	97.0				
John Butler Centre – Level 2	97.6	97.6	97.5	98.1	97.2	96.7				
John Butler Centre – Level 1	98.2	97.6	98.2	98.2	97.2	97.9				
John Butler Centre – Ground floor	97.3	97.5	98.1	98.0	97.47	96.0				
Rawene Service Centre	3/M	NA	NA	97.6	NA	97.0				
Kaeo Service Centre and Library	3/M	NA	98.2	97.4	NA	NA				
Procter Library	96.6	97.4	97.3	96.1	96.0	96.8				
Paihia Library	96.3	96.5	96.4	97.0	NA	96.3				
Kaikohe Library	3/M	91.9	94.3	91.9	97.1	96.0				
Bay of Islands Information Centre	96.9	97.4	95.9	NA	NA	96.1				
Hokianga Information Centre	3/M	98.0	NA	97.8	NA	96.8				

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#### HOUSING FOR THE ELDERLY

Council own and maintain 147 Housing for the Elderly Units at 12 locations within the district. Unit information is as follows:

		Jan-21	Feb-21	Mar-21	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20
				3	1	3	1	0	1	2	2	0	0
# units vacated (received for refurbishing)	Northern:			Oxford St, Puckey Ave		Awanui, Oxford Street	Awanui		Puckey		Kohukohu		
# unit: vacated (received efurbishi	Western:			Kaikohe		Rawene				Kaikohe, Rawene	Omapere		
	Eastern:												
		7	8	8	4	4	7	7	6	7	6	8	8
ments g	Northern:	Awanui (2), Oxford St	Awanui (2), Oxford St	Awanui (2), Oxford St			Awanui, Oxford St	Awanui (2), Oxford St	Awanui (2),Oxford St	Awanui (2), Oxford St, Puckey	Awanui (2), Oxford St, Puckey	Awanui (2), Oxford St, Kohukohu	Awanui (2), Oxford St, Kohukohu
# unit refurbishments progressing	Western:	Rawene, Kaikohe (2), Omapere	Waima, Rawene, Kaikohe (2), Omapere	Waima, Rawene, Kaikohe (2), Omapere	Waima Kaikohe (2)	Waima Kaikohe (2)	Kaikohe Rawene, Waima	Kaikohe (2), Rawene	Kaikohe (2)	Kaikohe (3)	Rawene, Kaikohe	Rawene, Kaikohe, Omapere	Rawene, Kaikohe (2), Omapere
	Eastern:				Kawakawa	Kawakawa	Kawakawa	Kawakawa	Kawakawa				
		0	1	1	0	0	0	1	1	1	3	0	0
# units completed (returned fou tenanting)	Northern:			Ahipara							Puckey		
# com etur tena	Western:		Kohukohu					Waima	Rawene		Kaikohe (2)		
5	Eastern:									Kawakawa			

#### COUNCIL / COMMUNITY BUILDINGS

#### Raihara Storage, Kaikohe

The lease over this facility has been extended to 30 June 2021 to provide time to remove all items currently stored inside including a number of IT and CDEM items.

#### BWOF

Next month, we will be adding a table that shows what buildings require a BWOF and the status of the warrant.

#### Rawene Campus

Work continues to handover responsibilities to the Trust in terms of giving effect to the signed lease.

LEASES / AGREEMENTS

1-May	To do / on hold	Applicant	District Facilities	Legalisation Services	Negotiating	Ready for signing
ern			Opononi Statue Agreement	JAN '20: Opononi Bowling Club Lease (new)	JAN '21: RAD Lease - contact had and areas that need addressing to be progressed	
Western			JAN '21 Northland College - Swimming Pool MOU (renew) progressing	JAN '20: Hokianga Coastguard Lease (new)	JAN '21 Rawene Campus Lease with Te Puna o Kupenuku	
				JAN '20: Hokianga Treks		
	Kerikeri College - Swimming Pool MOU (review)		OCT '20 Cherry Park House - discussions underway to consider future structure of management committees (involves SP&P)	OCT '20: Roland's Wood - signed agreement received from FORWT. Matter will proceed to the High Court to change over the Trust Deed.	ONGOING: Walls Bay	JAN ' 21: Whangaroa public toilet water supply agreement with the marina being negotiated.
	NOV '20: Te Hue Bay Agreement to permit a picnic area and slipway to remain in place for use by the public. On hold until the new year.	FEB '21: Russell Tennis Club - contacted by Club - discussing need for a formal arrangement	AUG '19: Kawakawa Memorial Library Hall Lease (renewal?)	FEB '21: Kerikeri Croquet Club - request to renew lease		Feb'21 Vision Kerikeri. Volunteer agreement signed by Vision Kerikeri. Awaiting signature by Council
	NOV '20: Waipapa public toilet agreement (on hold)		APR '21: Russell Sports Trust Lease (renewal) New Contact indicates they are now happy to sign lease.	ONGOING: Kerikeri Sports Complex Lease (Hold)		
Eastern	NOV '20: Paihia Village Green Market: on hold due to the impact of COVID and no cruise ship visits.			Investigation: * Tauranga Bay - water easement Agreement (new due to expiry)		
	NOV '20 Cherry Park House - discussions underway with EM's and staff to look at a future structure of management committees			MAR '21 Russell St Johns & Medical centre - looking for location for garage.		
	FEB '20: Look at extending land lease of Recreational Vehicle Effluent Dump Station from Licensor Melia Investment Ltd. Expires 30/06/2021			MAR '21 Russell Hall and Toilets. Work in progress to establish power supply and water responsibilities		
				<b>APR '21</b> Paihia Waitangi Kindergarten lease renewal. Site visit and application complete.		
	DEC '20: Te Hiku Sports Hub land lease	JAN '20: Hihi Community Centre Lease (new)	ON HOLD (June): Kaitaia Saturday Market Agreement (on hold)	JAN '20: St Johns Ambulance Ahipara Lease (renewal)	<b>DEC '20:</b> FENZ Karikari 28 Maitai Bay Road (Ena)	FEB '21: APRI - Unahi Wharf Agreement: a few more adjustments needed
E	DEC '20: Mangonui Netball Club. Request to issue a new lease received however relates to the Te Hiku Sports Hub development (meeting to be held)		JAN '20: Te Kao - public toilet Agreement (new)	JAN '20: Te Kohanga Reo o Houhora Lease (new)	JAN '21: Waiotaraire Reserve - public toilet water supply agreement is progressing	
Northern				FEB '20: Tumanako o Kaitaia Kohanga Reo Trust (new)	FEB '21: Kaitaia Plunket Lease - negotiations around removal of old buildings before lease can be terminated	
				March '21: Omaitai Waka Ama Club. Start to look at extending temporary use of Taipa point		

1-May	To do / on hold	Applicant	District Facilities	Legalisation Services	Negotiating	Ready for signing
				JAN '20: Hihi Community Centre Lease (new)		
				<b>APR '21</b> Te Rarawa Rugby Football Club Inc. Lease renewal and inclusion of netball, tennis and basketball courts.		
e	Far North Holdings - property agreement					
Othe	SP&P to do: * Paihia Village Green Management Plan					

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# 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 Roads) 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 have set the project teams up well to achieve construction deadlines.

Four of the five sections have been sealed on Peria road, with section five sealing now being held until after winter.

Both Ruapekapeka and Ngapipito Roads are well underway with earthworks and drainage complete on Ruapekapeka Road (stage 1), and clearing, earthworks and drainage underway on Ngapipito Road. Pavement overlay work will continue into winter in preparation for the final stabilising and sealing early in the nest construction season.

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## SUMMARY - April

## 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.

Good progress has continued on Peria Road. Section four (of 5) is now sealed. The final rock walls in Section five have been completed. The aggregate overlay in Section Five was undertaken this month, to half of the overlay depth, with the remaining material to placed, stabilised and sealed after winter.

Plan for May... Next month's activities for Peria Road will focus on closing and protecting the dump sites before winter and look at starting the guardrail works where possible.



Overlay in progress at Peria on Section 5

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Sealing at Peria on Section 4



Final seal at Peria on Section 4

#### 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.

Pavement and geometric design has been completed. The construction delivery of the seal extension has been split into four 1.25km sections, with staging of works on each section ideally allowing multiple sections to be in constructed at once (once clearing/earthworks on section one have been completed, that crew can move to section two and so on). Clearing, earthworks and survey/set-out has been completed on the full length. Drainage and culvert upgrades will continue as weather allows.

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Next month's activities for Ngapipito Road will focus on pavement construction for Sections 1 and 2, and drainage/earthworks on the latter sections.

Clearing, earthworks and pavement construction will continue over winter as weather allows, with surfacing programmed for next season (by December 2021).



Ngapipito Road clearing/earthworks and survey/set-out completed on sections 1 & 2

### Bridge upgrades

The design is 90% complete for the strengthening works and is on track to start physical works in August, with completion of work by December 2021.

### Ruapekapeka

#### Stage 1

Stage 1 sealing has been postponed to early next season due to further delays experienced with the fibre optic cable relocation works and the aggregate supply/quality issues. A variation to the MBIE funding agreement has been approved.

Earthworks on the unsealed portion beyond the proposed end of seal (British memorial to Hayes Road) will recommence in May after the fibre cable has been relocated. The seal extension section will have the subbase aggregate overlayed and compacted, and the final stabilising and sealing will be delayed until early next construction season.

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Ruapekapeka Road Stage 1 pavement construction

#### Stage 2

Detailed design for Ruapekapeka Road Stage 2 (bridge to Monument Road) is complete, with a peer review recently completed on the geotechnical and structural aspects of the design. The State Highway intersection improvements design is complete, with on-going liaison with the Ruapekapeka Trust for their inclusion of the intersection Pou.

Next month's activities for Ruapekapeka Road Stage 2 will focus on the tender documentation complete and out to market, with the completion targeted for next construction season.

The proposed delivery mechanism for Stage 2 is to utilise the NZTA Northland Delivery Framework (NDF) Lot 2 Suppliers, via a closed tender for construction. The design for Stage 2, including the proposed retaining walls below the Pa site and the SH1 intersection improvements are complete, with some minor improvements and changes to the design expected as we work through the consultation with the Trust.

#### PROGRAMME OVERVIEW

#### **Priority 1 Routes**

A variation has been agreed with MBIE regarding the completion dates to milestones for the Priority 1 Roads; Design capacity in the local market meant that there was a delay at design stage for Ngapipito Road. This had a direct impact on the construction start date and due to the restriction on physical works over the winter season, an extension was agreed upon.

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Priority 1 Roads Programme Milestones	Priority 1 Roads Programme Milestones				
Deliverable	Original Completion Date	Variation Completion Date	Status		
<ul> <li>Funding Agreement executed by both parties.</li> <li>Investigation and design underway.</li> <li>Stage 1 construction underway. Enabling works (vegetation clearing, earthworks, widening and drainage) commenced before 1 September 2020.</li> </ul>	August 2020	Achieved			
<ul><li>ECI agreement in place</li><li>Stage 1 investigation and design complete</li></ul>	30 September 2020	Achieved			
<ul><li>Stage 2 design complete</li><li>Stage 2 construction underway</li></ul>	31 December 2020	15 March 2021 - Achieved			
Stage 2 construction complete	31 March 2021	30 November 2021			
<ul> <li>Final completion of surfacing MSQA reporting and monitoring paperwork</li> </ul>	30 June 2021	30 December 2021			

#### Ruapekapeka Road

The delivery milestones required to achieve the dates set out in the funding applications were very tight. While we accelerated as many of the processes as we could, and identified innovative delivery methods, delays with consenting and consultation with the Ruapekapeka Trust meant that the programme had started to slip. MBIE were consulted with as soon as this became obvious and issued a minor variation to the contract agreement that pushed completion out to December 2021.

The reason for the 6-month extension is due to the fact that we cannot undertake any earthworks, road pavement and sealing work during winter months, so Stage 2 works will have to be undertaken in the early part of the next construction season.

Ruapekapeka Road Programme Milestones					
Deliverable	Original Completion Date	Variation Completion Date	Status		
<ul><li>Funding Agreement executed by both parties</li><li>Investigation and design underway</li></ul>	August 2020	Achieved			
<ul> <li>ECI agreement in place</li> <li>Stage 1 investigation and design complete</li> <li>Stage 1 construction underway. Enabling works (vegetation clearing, earthworks, widening and drainage) commenced before 1 September 2020.</li> </ul>	30 September 2020	Achieved			

NOTE: Major earthworks for Stage 1 construction have been unable to start due to delays with consenting and archaeological authority requirements. The programme was already tight and this will put us a month

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behind, which will have a knock-on effect on the completion date.

<ul><li>Stage 2 design complete</li><li>Stage 2 construction underway</li><li>MSQA reporting and monitoring paperwork</li></ul>	31 December 2020	28 February 2021	
<ul><li>Stage 1 construction complete</li><li>MSQA reporting and monitoring paperwork</li></ul>	31 December 2020	30 October 2021	
<ul><li>Stage 2 construction complete</li><li>MSQA reporting and monitoring paperwork</li></ul>	31 March 2021	30 November 2021	
<ul><li>Final completion of surfacing</li><li>MSQA reporting and monitoring paperwork</li></ul>	30 June 2021	30 December 2021	

## FINANCIAL OVERVIEW

Strategic Roads Road		
Contract	Paid to Date	Status
Northern Edge	\$20,126	Ongoing
Hoskin Civil	\$83,775	Ongoing
Northern Civil	\$3,995	Complete
WSP	\$180,091	Complete
Ventia (previously Broadspectrum)	\$246,258	Ongoing
Fulton Hogan	\$4,783,238	Ongoing
Rawene Consultants	\$802	Complete
BCI Media Group	\$2,501	
April Claim		\$958,017
Total Claimed to date		\$5,320,789

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🕨 Ruapekapeka Road		
Contract	Paid to Date	Status
Northern Edge	\$10,438	Ongoing
Hoskin Civil	\$105,247	Ongoing
Northern Civil	\$4,240	Ongoing
Williamson Water	\$8,672	Ongoing
WSP	\$30,451	Complete
Geometria Ltd	\$6,391	Ongoing
Top Energy	\$1,100	Ongoing
Ventia (previously Broadspectrum)	\$547,867	Ongoing
Haigh Workman	\$129,500	Ongoing
Rawene Consultants	\$195	
BCI Media Group	\$1,250	
April Claim		\$66,006
Total Claimed to date		<b>\$</b> 845,355

## **KEY RISKS AND OPPORTUNITIES**

The following risks have been identified and are being actively managed:

• For Ruapekapeka, the initial engineers estimate based on the submitted design for stage 2 works, exceeds the budget allocation, largely due to the proposed retaining wall structures required to achieve road width adjacent to (below) the Pa site. We have engaged WSP to peer review the design and identify any 'value engineering' opportunities. This has been raised with MBIE representatives, with early discussions on potential funding reallocation from 'Priority 1 Roads Project'.

## STAKEHOLDER COMMUNICATION

Council have released a number of media updates for Peria, Ngapipito Road and Ruapekapeka Road.

In the case of Ruapekapeka Road, there are a significant number of stakeholders involved with the scope of work near the Ruapekapeka Pā site and the proposed intersection improvements with respect to safety and tourism at State Highway 1. We continue to work closely with Te Ruapekapeka Pa Trust and have fortnightly meetings with representatives from the Trust.

Partners and stakeholders involved in these projects include;

- Iwi/Hapu Ngāti Hine, Ngāti Hau, Ngāti Manu and Te Kāpiti
- Te Ruapekapeka Trust

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- DOC
- Geometra (Archaeological Specialists)
- Heritage NZ
- NZTA
- NRC
- Affected landowners

All stakeholders and affected parties are in full support of this project. Te Ruapekapeka Trust also have funds approved to develop the Pā site and enhance the entrance to Ruapekapeka Road with a proposed Pou and Waharoa near the intersection of State Highway 1, so it is critical that we work closely together on these projects.

A hui was held on 1st April with representatives from Te Ruapekapeka Trust, NZTA and FNDC Project Management Team to discuss the design of the Pou proposed for the SH1 intersection. The proposed concept is very exciting and we will share this detail in the near future.

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## TE HIKU O TE IKA REVIATLISATION



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 Maori 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 June 2022.

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## SUMMARY - April

This project is largely being delivered by the community and guided by a local Project Working Group. Due to the reporting, programming and procurement requirements, it will be overseen by Kevin Hoskin, on behalf of FNDC. The reporting associated with Shovel Ready projects will be similar to that required for Provincial Growth Fund projects, although there is a greater level of detail required on a monthly basis for Shovel Ready Projects, to show progress against social outcomes and local economic benefits etc.

The Dalmatian Alleyway is the first part of the Te Hiku project that was largely completed during the month of April. The "Dally Alley" has been a huge attraction already as hundreds of locals have wandered down to enjoy the images depicting the past of our gumdiggers, both of Maori & Dalmatian descent. There are hundreds of positive comments posted on facebook about what a difference it has made to the street already.

The planter boxes were planted in the grapes that were grown by the Dalmatians and oioi grasses seen up in the gumfields. The hand carved signs by Kauri Unearthed were installed. We are just waiting on the installation of the steel gumdigger to erect as well as a resurfacing of the alleyway itself. With the improvements made on the walls, it has shown up the need to improve the surface of the alleyway to complete the project. While people have wandered down the alleyway, the judder bars were a trip hazard so these have now been removed.

The CEO, Shaun Clarke, Mayor Carter, Councillors Foy, Collard and Tepania wandered down to check out the progress after the LTP hearings in Kaitaia.







The second alleyway is starting to take shape now that the artists have made a start on their blank canvases for the last part of April. The artists who are new suppliers to FNDC had a slight delay on their starting dates

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while waiting for their health and safety plans to be approved and for invoiced deposits to cover their initial paint purchases.



Dorothy Kilgour creating her beach scene on a nearby wall



Sylvie Haines working on her Te Hiku coastline with the west coast up one wall and the east coast down the other. 20 Beaches within 20 minutes is the theme for this alleyway and nearby walls

The extension of the Foreshore footpath to the shared 2.2m pathway has been done in collaboration with the Project Manager already assigned to the FNDC footpath and contractors Fulton Hogan. The Te Hiku project has requested the widening of the paths including natural curves to be incorporated in the shaping. The difference in cost is being covered from the Revitalisation project funds. We have also worked closely with

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the Ahipara Surf Life Saving Club to ensure their viewing area is not compromised.

The contract to lay 23 concrete foundations for the furniture ordered, has been awarded to a small Maori owned business, OTO Contractors. OTO Contractors will begin this work in mid-May. An additional contract has been awarded in April to install the 16 x bird seats in a way that mentoring and collaboration can be achieved. A well-established Tier 2 contractor, Stonecraft Construction will be mentoring Procrete, a relatively new Maori owned concrete business to ensure they meet the health and safety requirements and have advice and guidance in pricing/quoting. We are all looking forward to the positive outcomes of this relationship that all parties have agreed to.

## PROGRAMME OVERVIEW

The current programme aligns closely with the deliverables specified in the project agreements shown in the following table.

The deliverables for Payment #1 were achieved, unlocking the first claim value of \$3.5m in November. Deliverables for 30 April 2021 have been largely achieved with detailed plans for the final design of pumptracks and playgrounds still in progress. We have not spent the initial upfront payment of \$3.5M, so no claim is due for this milestone.

► Te Hiku O te Ika					
Deliverable		Completion Date	Status		
• The agreement exect	uted by both parties. Project is 'shovel ready'	30/10/2020			
	lans and preparation for works at Ahipara, Awanui t to provide evidence to the Ministry that the has been spent.	28/02/2021			

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► Te Hiku O te Ika	► Te Hiku O te Ika					
Deliverable	<b>Completion Date</b>	Status				
<ul> <li>Awanui carpark &amp; playground underway Recipient to provide evidence to the Ministry that the previous instalment has been spent and that the consent has been granted.</li> </ul>	30/05/2021					
<ul> <li>Kaitaia Town square and market square complete Streetscaping completed Ahipara, Awanui and Kaitaia Pump park completed in Kaitaia and Ahipara Recipient to provide evidence to the Ministry that the previous instalment has been spent.</li> </ul>	31/08/2021					
<ul> <li>Awanui carpark and playground completed Ahipara carpark and playground completed Cultural Art erected Awanui Jetty completed Ahipara walkways completed</li> </ul>	30/11/2021					
All works completed and project finishes	30/06/2022					

## 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. Regular fortnightly meetings are now in place 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, 31 contractors have registered for this assistance. 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.

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.

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# CIVIL DEFENSE EMERGENCY MANAGEMENT

Providing leadership in reducing risk, being ready for, responding to and recovering from emergencies.

recovering from emergencies.

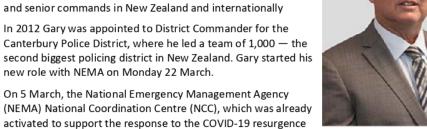
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## NATIONAL EMERGENCY MANGMENT AGENCY

The National Emergency Management Agency has announced the appointment of Gary Knowles as its new Deputy Chief Executive, Emergency Management.

Garv was a member of the New Zealand Police for 42 years and worked in a variety of operational and leadership roles in emergency management, intelligence, criminal investigations, and senior commands in New Zealand and internationally

In 2012 Gary was appointed to District Commander for the Canterbury Police District, where he led a team of 1,000 - the second biggest policing district in New Zealand. Gary started his new role with NEMA on Monday 22 March.



in Auckland, pivoted to manage the multiple earthquake events that resulted in tsunami warnings and advisories.

A M7.3 East Cape earthquake at 2.27am triggered the first tsunami warning for a Land and Marine threat which passed at 6am. At 6.41am, a M7.4 earthquake near the Kermadec Islands then triggered a tsunami advisory for a Beach and Marine threat. Whilst the earlier advisory was still in effect, a M8.1 earthquake struck again near the Kermadec Islands at 8.28am. This triggered a new tsunami warning for a Land and Marine threat for several areas of north-eastern New Zealand.

The tsunami waves from all three earthquakes were detected on the New Zealand DART buoy network. GNS Science reported that the New Zealand DART buoy network greatly assisted the Tsunami Expert Panel with reducing the forecasting uncertainties and enabled a much quicker cancellation of the threat from the M8.1 Kermadec earthquake.

CDEM Groups and national agencies activated in response. The NEMA National Controller held teleconferences with CDEM Group controllers at regular intervals throughout the event to ensure effective coordination, consistency in response, and direct access to GNS Science advice.

NEMA issued an initial Emergency Mobile Alert (EMA) to the areas requiring evacuation (i.e. those areas that were under Land threat). Some CDEM Groups later followed with their own EMA messages; some expanded the target areas for evacuations and others issued alerts for areas that were under Beach and Marine threat. Affected communities evacuated for a number of hours and were allowed to return from 1:15pm when the warning was downgraded to a Beach and Marine threat before being cancelled at 3:45pm. There was no damage on land reported.

The NCC was stood down for both the COVID-19 resurgence and the tsunami response at 5pm on 5 March. NEMA is in the process of conducting an internal review of the response to the three tsunami events. NEMA's review process will include discussion with GNS and the CDEM Groups.

## NORTHLAND CDEM GROUP

Work continues with the review of the Northland CDEM Group Plan. In line with the Directors Guideline for Emergency Management Groups, an across agency and stakeholders' workshop with 25 attendees was held on 31 March to work through key aspects of the plan including a full review of the northland risk hazardscape. Recommendations from this workshop will be incorporated into the revised plan.

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- A multi-agency debrief was held on 24 March 2021 to consider opportunities for improvement after the 5th March Kermadec earthquake and tsunami warning and affecting Northlands coastal communities. As a result of this debrief, all agency groups were asked to implement the opportunities for improvement as identified within their own organisations. A debrief report will be included in the agenda for next scheduled Civil Defence Emergency Management Group meeting.
- Civil Defence Officers have received several requests across Northland from communities including Marae, schools and Kura for assistance with emergency planning after Kermadec tsunami warning and evacuation. CDEM Officers have since attended community meetings at Karikari Peninsula, Russell, Taipa, Coopers Beach Lake Ohia and the Kaitaia Primary School SLT to support local communities to improve their preparedness for such events.
- The bi-annual tsunami alarm test was carried out on Sunday 4th March. To date three alarms in the FNDC coastal areas have been identified as requiring maintenance or replacement. One alarm located at Te Ngaere was reported as being vandalised and damaged beyond repair during the Kermadec tsunami evacuation. As the owner of the alarms, information pertaining to the offending has been passed on to the Far North District Council to follow up with councils legal team for potential cost recovery. The estimated replacement cost will be \$4-5K.

### WARNINGS AND ADVISORIES

- A National Advisory was issued at 02:40 05 March 2021 as a result of a magnitude 7.3 earthquake off the EAST CAPE of New Zealand. After assessing the earthquake parameters, the National Emergency Management Agency and GNS Science determined there was no tsunami risk to Northland but issued a LAND AND MARINE WARNING for the East Coast of the North Island from CAPE RUNAWAY to TOLAGA BAY.
- A second **National Advisory** was Issued at 07:29 05 March 2021 following a magnitude 7.4 earthquake near KERMADEC ISLANDS at 2021-03-05 6:41 AM. A LAND and MARINE threat was issued for the EAST COAST of the NORTH ISLAND from the BAY of ISLANDS to WHANGAREI.
- A third National Advisory was issued at 08:45 05 March 2021 following a magnitude 8.1 earthquake north-east of New Zealand near KERMADEC ISLANDS REGION affecting the East Coast of the North Island from the BAY OF ISLANDS to WHANGAREI, from MATATA to TOLAGA BAY including Whakatane and Opotiki including GREAT BARRIER ISLAND. This was escalated to a National Warning at 9:45am 05 March 2021 and included the North Cape and almost the entire New Zealand coastline. This warning resulted in immediate evacuation to high ground for all Northland coastal communities.

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## Tsunami Forecast Map



Earthquake details: M8.1 Kermadec Earthquake #2 Time of earthquake: 08:28 NZDT 05/03/2021 Map issued at: 09:35 NZDT 05/03/2021

#### NOTE:

- The stated threat levels may apply to any one of the series of waves generated by the event and not necessarily to the first wave. The first wave is not always the largest or highest and waves are likely to continue for many hours.
- The threat levels suggest the largest wave at any coastal point inside the zone. Wave heights will vary within a zone.
- The amplitudes do not include the tidal state (sea level) at the time the wave reaches the shore.
- 4. The estimate is for the maximum expected wave amplitude at shore. Run-up can be up to twice as high on steep slopes onshore near the coast i.e. a wave measuring 5m at shore can run-up as high as 10m on-land near the shore.
- 5. The expected wave amplitudes (crest to sea level) at the shore are likely to be different to measurements given in PTWC builtetins. PTWC measurements are taken at sea level gauges in the open ocean or at coastal points off-shore from New Zealand. NEMA information represents the official threat estimates.

Maximum expected amplitude at shore	Threat definition
<0.3m	No threat
0.3–1m	Beach & Marine Threat (including harbours, estuaries and small boats)
1–3m	
3–5m	Land C Marine Thread
58m	Land & Marine Threat
>8m	

Tsunami forecast map issued at 0935 hours showing affected area and expected amplitudes at the relative coastal areas across New Zealand.

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TE TAI TOKERAU WORKER REDEPLOYMENT PACKAGE – MONTHLY REPORT





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Location and Region:	Te Tai Tokerau\Northland
Contracted Amount:	\$9.32 million (Original) + \$4 million (Storm Variation)
Report Date:	For the month ending 31 <sup>st</sup> March 2021
Programme Outcomes:	<ul> <li>prioritise the employment of local workers displaced by the COVID economic crisis;</li> <li>occur at pace, time being critical; and</li> <li>assist in meeting the social procurement objectives agreed between the parties</li> </ul>

#### 1. Project Updates

Provide description and analysis of actual against planned progress of each Project Element to show that the Project is occurring at pace.

#### **Completion Date Risk**

Provide description and analysis of actual against planned progress of each Project Element to show that the Project is occurring at pace.

With most Funded activities completed in February 2021, the April report includes updates only for the following remaining three in progress items:

9. Kaipara District Council Parks - Vegetation clearance & clean ups - Kai Iwi Lakes & Pou Tu o Te Rangi

16. WDC Storm Response works

17. FNDC Storm Response works

Pro	oject Element	Details of progress
1.	Removal of self-seeded roadside trees	Funding item complete.
2.	Roading sightline improvements and vegetation clearance	Funding item complete.
3.	Roadside litter collection and clean-up	Funding item complete.
4.	Removal of known Roadside hazardous trees	Funding item complete.
5.	Removal of self-seeded roadside trees	Funding item complete.
6.	Roadside litter collection and clean-up	Funding item complete.
7.	Spot Spraying Noxious Weeds	Funding item complete.
8.	Sight Rail Improvements (3# districts)	Funding item complete.
9.	Kaipara District Council Parks - Vegetation clearance & clean ups - Kai Iwi Lakes & Pou Tu o Te Rangi	<ul> <li>Work continued on this item in April with the remaining outstanding activity below scheduled to be completed in May:</li> <li>Mangawhai Community Park - Reinstatement of shared tracks/walkways partially completed. This was programmed for completion in February, however due to extenuating circumstances completion is now programmed for May.</li> </ul>

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	ion clearance	e ox clean t	h2 L	Funding item complete.							
I1. FNDC Parks - Vegetat	ion clearanc	e & clean	ups F	Funding item complete.							
L2. NRC - Rivers & Beach clean ups	es Vegetatio	n clearanc	e& F	Funding item complete.							
L3. Tikipunga cycle trail - to Whg. Falls)	Stage 1 - (To	otara Parkl	ands F	unding iten	n complete						
L4. New Footpaths (3# d existing urban netwo	25	ing links in	F	unding iten	n complete	·					
L5. Accelerated Unsealed	d network gr	ading prog	ram F	unding iten	n complete						
16. WDC Storm Response	e works		1.00	emining W ompleted in		Response scope activities were					
	1				N	Ionthly Progress					
Work Type	Original Tot	al Revised	Forecast E	xpenditure 9	6 Complete	Comments					
Stormwater, Waste & Drainage	\$ 569,808.	98 \$ 52	3,465.93 \$	523,465.93	100% V	Vork Completed					
Parks	\$ 780,941.	25 \$ 82	7,571.77 \$	898,288.39	a second second second	Il works associated with available funding as now been completed					
Roading - Priority 1 & 2	\$ 650,333.		8,962.30 \$	652,743.23		Il works associated with available funding as now been completed					
little strain on	enditure sho	wn above		l above \$2n	n funding lii	mit covered by WDC funding.					
Response works	imeline of er	nd-May 20	21.			mpletion on track for revised المانية invoiced as at 30th April 2021.					
Mark Trees	Original Tabul	Moerewa	Revised	Completer	S						
Work Type	Original Total	component	Forecast	Value	% Complet	e Comments					
Morewa Initial Clean Up	\$ 77,073.06	\$ 77,073.06	\$ 77,073.0	6 \$ 77,073.	06 100%	Retrospective works - fully complete					
Morewa Initial Clean Up (retrospective)											
(retrospective)	\$ 113,779.06	s -	\$ 113,779.0	6 \$ 113,779.	06 100%	Retrospective works - fully complete					
(retrospective) BSL Districtwide Flood Response	\$ 113,779.06 \$ 351,906.78	\$ - \$179,435.00	\$ 113,779.0 \$ 351,906.7			Work continues - on track for completion by end May 2021					
(retrospective) BSL Districtwide Flood Response (retrospective)		\$ 179,435.00		8 \$ 124,674.	00 35%	Work continues - on track for completion by					
(retrospective) BSL Districtwide Flood Response (retrospective) Flood Protection Works	\$ 351,906.78	\$179,435.00 \$31,435.00	\$ 351,906.7	8 \$ 124,674. 8 \$ 160,576.	00 <u>35%</u> 83 <u>29%</u>	Work continues - on track for completion by end May 2021 Invoicing yet to be received from contracto 3 of 17 tasks fully complete with remainder progress. Completion targeted by end May					
(retrospective) BSL Districtwide Flood Response (retrospective) Flood Protection Works Parks	\$ 351,906.78 \$ 545,000.00	\$ 179,435.00 \$ 31,435.00 \$ 50,101.25	\$ 351,906.7 \$ 560,074.7	8 \$ 124,674. 8 \$ 160,576. 5 \$ 50,101.	00 35% 83 29% 25 100%	Work continues - on track for completion b end May 2021 Invoicing yet to be received from contracto 3 of 17 tasks fully complete with remainder progress. Completion targeted by end May 2021					

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#### 2. Redeployment Outcomes

2.1 Please complete the following table for the number of people working to deliver the project in the current reporting period.

Project Element	Total People Working	Prev Unemployed	Aged 15-24	Māori	Pasifika	Women	Job type • Full-time • Part-Time • Contractor
Item 9. Vegetation clearance and clean ups – Kai Iwi Lakes & Pou Tu o Te Rangi	6	3	2	4	0	1	4 x Part-time Working on Elements of the Project.
TOTAL	6	3	2	4	0	1	As above

Note – As activities now reach completion the number of staff engaged on the programme are reducing, noting that where possible previously unemployed workers who were engaged through the programme are being retained for alternate works where possible.

2.2 Complete the following total jobs table, showing total current employed, previously employed and expected future jobs in the project.

Current jobs	People previously but no longer employed on the project	Expected jobs in the future
6	287	Nil

2.3 Provide any additional narrative to explain the table or give other relevant information.

#### KDC Parks:

Throughout April six (6) people continued to be employed as part of the current stages of works. The month saw the works in the Mangawhai Community Park continue with the reinstatement of pathways and walking tracks.

Of the 6 employed in April, the majority will be redeployed to other works outside of this project, with 3 of the workers re-establishing to complete elements such as follow up pest plant treatment, remediation and reinstatement works.

Further works are to be undertaken through to May 2021 to fully complete elements of this works package. It is expected that there will be up to 10 people employed through to completion of elements of this work package.

#### 3. Supplier Diversity Outcomes

Please complete the following table for the number and value of each direct or sub-contract awarded to local, Māori and/or Pasifika-owned businesses during the current reporting period.

Two existing (previously reported) local contractor engagements continued in April:

- Waterway Specialists \$20,000 work in April
- Asset Construction Ltd \$\$40,000 in April

Total engagement to date:

- Total Local business supplier engagement reported to date = \$5,024,668 (54% of total)
- Total Maori/Pasifika business supplier engagement reported to date = \$1,373,066 (15% of total)

## 4. Social Procurement Objectives

Please provide details of achievements to date against your agreed social procurement objectives.

No further updates in March – all reported previously.

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## 5. Financials

Eleven milestone payment totalling \$12,771,201 have been claimed from MBIE to date. (note – processing of the April invoice of \$171,802.50 excl. GST was delayed – sent to MBIE on Monday 10th May 2021)

A final reconciliation of expenditure for the completed funding items following receipt of any remaining trailing contractor invoices and will be provided in the final project completion report (June 2021).

Project Element 1. Removal of self seeded roadside trees		eceived from PGF to date	Actual Project Expenditure to Date		Notes	
		300,000.00				
2. Roading sightline improvements and vegetation clearance	\$	460,000.00	\$	1,260,000.00	Works completed	
3. Roadside litter collection and clean-up	\$	500,000.00	1			
4. Removal of known Road side hazardous trees	\$	1,800,000.00	\$	1,804,059.23	Works completed	
5. Removal of self-seeded roadside trees	\$	870,000.00	\$	1,019,765.39	Works completed	
6. Roadside litter collection and clean-up	\$	470,000.00	\$	463,901.22	Works completed	
7. Spot Spraying Noxious Weeds	\$	250,000.00	\$	292,260.64	Warks completed	
8. Sight Rail Improvements (3# districts)	\$	200,000.00	\$	147,548.84	Works completed	
9. Kaipara District Council Parks - Vegetation clearance & clean ups - Kai Iwi Lakes & Pou Tu o Te Rangi	s	1,528,197.50	s	1,483,995.00	The works were planned for completion by the end of February 2021, however due to retrospective consent requirements, COVID alert level changes, weather and peak usage of park facilities, agreement was reached with MBIE to extend the completion of the works through to May 2021.	
10.Whangarei District Council Parks - Vegetation clearance & clean ups		200,000.00	s	600 000 00	Works completed	
13. Tikipunga cycle trail - Stage 1 (Totara Parklands to Whangarei Falls)	\$	400,000.00	2	600,000.00	works completed	
11.Far North District Council Parks - Vegetation clearance & clean ups	\$	200,000.00	\$	205,572.66	Works completed	
12.Northland Regional Council - Rivers & Beaches Vegetation clearance & clean ups	\$	200,000.00	\$	200,000.00	Works completed	
14.New Footpaths (3# districts) missing links in existing urban network	\$	1,500,000.00	\$	1,470,135.00	Primary construction works completed	
15.Accelerated Unsealed network grading program	\$	370,000.00	\$	195,507.68		
16.WDC Flood Damage repairs		1,900,000.33	\$	2,000,000.00	All works complete - expenditure reported at ma \$2m / actual expenditure to date of \$2.074m with overspend covered by WDC funding	
17.FNDC Flood Damage repairs	\$	1,623,003.53	\$	1,096,666.19	Delays in Contractor invoicing for Parks component resulting in understated finacial progress. Works on track for completion by end- May 2021	
lotal	\$	12,771,201.36	\$	12,239,411.85		

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## 6. Forward Work Programme

Outline forward work to be completed in the next month (not required in the Final Report)

roject Element	Outline of Planned Work (for next month)
. Removal of self-seeded roadside trees	Funding Item now completed.
<ol> <li>Roading sightline improvements and vegetation clearance</li> </ol>	Funding Item now completed.
. Roadside litter collection and clean-up	Funding Item now completed.
. Removal of known Roadside hazardous trees	Funding Item now completed.
. Removal of self-seeded roadside trees	Funding Item now completed.
. Roadside litter collection and clean-up	Funding Item now completed.
7. Spot Spraying Noxious Weeds	Funding Item now completed.
3. Sight Rail Improvements (3# districts)	Funding Item now completed.
<ol> <li>Kaipara District Council Parks - Vegetation clearance &amp; clean ups - Kai Iwi Lakes &amp; Pou Tu o Te Rangi</li> </ol>	Mangawhai Community Park – Completion of reinstatement, selected planting & vegetation, groundwork preparation for shared pathway.
0. Whangarei District Council Parks - Vegetation clearance & clean ups	Funding Item now completed.
1. Far North District Council Parks - Vegetation clearance & clean ups	Funding Item now completed.
2. Northland Regional Council - Rivers & Beaches Vegetation clearance & clean ups	Funding Item now completed.
3. Tikipunga cycle trail - Stage 1 (Totara Parklands to Whangarei Falls)	Funding Item now completed.
4. New Footpaths (3# districts) - missing links in existing urban network	Funding Item now completed.
5. Accelerated Unsealed network grading program	Funding Item now completed.
6. WDC Storm Response	Funding Item now completed.
7. FNDC Storm Response	Continuation of remaining outstanding works identified in scope document provided to MBIE.

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<b>7.</b> Risks/Issues/Opportunities (Any risks and/or issues arising or expected to arise, costs and mitigation)									
Funding Item(s)     Risks / Issues     Magnitude / Likelihood     Mitigation									
All	Failure to complete works within revised Contracted timeframes	High / Low	Risk predominantly mitigated with MBIE approval of Contract Variation to extend Completion timeframe to new Completion date of 28/02/2021.						
All	Changes to Covid-19 Alert Levels	Severe / Moderate	Work programmes to be adapted to suit restrictions where possible. Contractor risk control plans in place						

## 8. Communications

Nil to report for April.

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FNDC 20/21 CAPTIAL AND RENEWAL PROGRAMME UPDATED



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#### APRIL UPDATE

Category	Sub-activity	Location	% Complete	Monthly Update	Next month planned activities	Risk	Risk Comments
125 - Footpath Maintenance	Footpath Renewal	Te Hiku Ward: Refer RAMM for list of sites.	62%	In construction	In construction	3	
125 - Footpath Maintenance	Footpath Renewal	BOI-Whangaroa Ward: Refer RAMM for list of sites.	100%	In construction	Continue construction	3	
125 - Footpath Maintenance	Footpath Renewal	Kaikohe-Hokianga Ward: Refer RAMM for list of sites.	46%	Construction of Parnell Footpath postponed to May as contractor plans to complete additional works around Opononi area before mobilizing to Rawene (Parnell Street).	Continue construction	3	
140 - Minor Events	General Maintenance	Iwitaua Road RP 14005	100%	Complete	n/a	3	
140 - Minor Events	General Maintenance	Paponga Rd RP8886 Slip Remediation	96%	Complete	Complete	3	
140 - Minor Events	Resilience	Waikare Road - various locations	0%	Work re-scheduled to start early May 2021	Commence construction	3	
141 - Emergency Works	Resilience	West Coast Rd RP 9563	29%	Construction complete. Independent geotechnical peer review almost complete. Additional investigations resulting from peer review being scoped.	Complete independent geotechnical peer review and commission additional geotechnical investigations.	3	
141 - Emergency Works	Resilience	Fairburn Rd	100%	Complete	Complete	3	
141 - Emergency Works	Resilience	Diggers Valley Rd	100%	Complete	Complete	3	
141 - Emergency Works	Resilience	Wharekawa Rd RP 3552	100%	Complete	Complete	3	
141 - Emergency Works	Resilience	PLACEHOLDER	#DIV/0!	n/a	n/a	1	\$180,456 of budget made surplus in March 2021 as projects constructed within budget.
212 - Sealed Road Resurfacing	Sealing Chip seal	South Region (CS - 37.99km)	93%	Chip sealing complete	chipseal compete end of March, small AC job in Waitangi late May	3	
212 - Sealed Road Resurfacing	Sealing Chip seal	North region (CS - 31.4km, TAC - 0.632km)	88%	100% complete with exception of one site (Fairburn Road)	complete	3	
214 - Sealed Road pavement rehabilitation	Rehabs	Rehab design and investigation	0%	Seeking approval to award testing contract to recommended supplier	Commence testing for next seasons rehabs	3	
214 - Sealed Road pavement rehabilitation	Rehabs	Pawarenga Road	81%	site 1, Installation of guardrails completed in April. Site 2/3 final marking completed April	Site 1 completed, snag list audit to do. Site 2/3 fence reinstatement followed by post completion snag list.	3	
214 - Sealed Road pavement rehabilitation	Rehabs	Waimatenui/Mataraua Road	66%	site sealed 3rd May	seal entrances, road signs, line marking, drainage	3	
214 - Sealed Road pavement rehabilitation	Rehabs	Okaihau Road	101%	Complete	Practical completion and snag walk-over to be completed	3	
214 - Sealed Road pavement rehabilitation	Rehabs	Horeke Road	101%	Completed.	Practical completion and snag walk-over to be completed	3	
214 - Sealed Road pavement rehabilitation	Rehabs	Broadwood road	115%	Site complete - Snag list walk-over completed in January and forwarded to Contractor for action Items now completed.	Final defects walkover to be completed prior to end of DL period.	3	
214 - Sealed Road pavement rehabilitation	Rehabs	Purerua Road	109%	complete	Complete	3	

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Category	Sub-activity	Location	% Complete	Monthly Update	Next month planned activities	Risk	Risk Comments
214 - Sealed Road pavement rehabilitation	Rehabs	Pungaere Road	120%	complete	DLP period	3	
214 - Sealed Road pavement rehabilitation	Rehabs	Contract management fixed cost.	83%	n/a	n/a	2	
215 - Structures Component Replacement	Bridge	General Bridge maintenance	72%	Physical works progressing well with close to 80 sites of 105 were completed.	Continue with physical works on major work site.	3	
215 - Structures Component Replacement	Bridge	Scour protection across the network	92%	Commence physical works with close to 70 sites of 125 were completed.	Continue with physical works which includes major work site.	3	
215 - Structures Component Replacement	Bridge	Heavy Bridge Maintenance (Nth & Sth)	100%	Defects liability period for South. Scope for North 19/20 contract has been added to this year's General Bridge Contract 20/21.	Defects liability period for South.	3	
215 - Structures Component Replacement	Bridge	Scour protection (North and South)	100%	Defects liability period	Defects liability period	3	
215 - Structures Component Replacement	Bridge	Matai Bay Road Bridge C03	40%	Site investigation and options report.	Detailed design & documentation forecasted to be deliver on April.	3	
215 - Structures Component Replacement	Bridge	Hihi Road Bridge F07	48%	Investigation and design in progress	Continue with Investigation and design	3	
215 - Structures Component Replacement	Bridge	Puhata road	0%	Matawherohia removed from project and added to Heavy bridge renewal works	Continue with Puhata designs	3	
215 - Structures Component Replacement	Bridge	Contingency for any overruns and testing, designing for next FY	0%			3	
215 - Structures Component Replacement	Bridge	Grove Road Bridge M28	48%	Tender Documents ready for next financial year's tendering.	Tender Documents ready for next financial year's tendering.	3	
215 - Structures Component Replacement	Bridge	Churtons Road Bridge C13	0%	Investigation and design in progress	Continue with Investigation and design	3	
215 - Structures Component Replacement	Bridge	Kaitaia Awaroa road bridge D42	48%	Site investigation and options report.	Detailed design & documentation forecasted to be deliver on April.	3	
215 - Structures Component Replacement	Bridge	Kaitaia Awaroa road bridge D47	16%	Site investigation and options report.	Detailed design & documentation forecasted to be deliver on April.	3	
215 - Structures Component Replacement	Bridge	Kenana Road Culvert E94	0%	Site investigation and options report done. Physical Works moved to 22/23 as per latest FWP.	Site investigation and options report done. Physical Works moved to 22/23 as per latest FWP.	3	
324 - Road Improvements	Lighting	District wide	97%	Complete	Complete	3	
341 - Low Cost Low Risk	Asso Improvements	Northern & Southern Area: Associated improvements on 2020/21 pavement rehabilitation sites	76%	Works in Progress	Works in Progress	3	
341 - Low Cost Low Risk	Bridge	Otaua Road M28 N28	93%	As-builts and Ramm data done and received Practical Completion	Defects liability period	3	
341 - Low Cost Low Risk	Bridge	West Coast Road G01	58%	Commence at site and off- site superstructure construction ongoing.	On-site activities on-hold due to Top Energy not issuing close proximity permit.	1	<ol> <li>On-going Panguru flood mitigation project adjacent to the bridge.</li> <li>Likely not going to be completed this financial year due to Top Energy issue.</li> </ol>
341 - Low Cost Low Risk	Bridge	Puhata Road Bridge D50 Replacement	49%	Investigation and design in progress	Continue with Investigation and design	3	

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Category	Sub-activity	Location	% Complete	Monthly Update	Next month planned activities	Risk	Risk Comments
341 - Low Cost Low Risk	Bridge	Quarry Road (Awanui) Culvert B13 Replacement	48%	Investigation and design in progress	Continue with Investigation and design	3	
341 - Low Cost Low Risk	Bridge	WekaWeka Road Culvert J18 Replacement	48%	Investigation and design in progress	Continue with Investigation and design	3	
341 - Low Cost Low Risk	Bridge	Kaitaia-Awaroa Road Culvert D41 Replacement	38%	Site investigation and options report.	Detailed design & documentation forecasted to be deliver on April.	3	
341 - Low Cost Low Risk	Cycleways	Keith Kent 20/21 & 21/22 projects. Ped & Cycle Traffic Calming Improvements	33%			2	No updates provided from safety team
341 - Low Cost Low Risk	Future designs	PLACEHOLDER for advance design of 21/22 projects	0%	Programme to be supplied	Programme to be supplied	1	Awaiting project brief
341 - Low Cost Low Risk	Lighting	Various District Roads	5%	Construction started (in Kerikeri)	Continue construction	2	Contractor behind program
341 - Low Cost Low Risk	New Footpath	North Park Drive - Whangatane Drive, Kaitaia	100%	Complete.	Complete	3	
341 - Low Cost Low Risk	New Footpath	Te Hiku Ward: Foreshore Rd - Tasman Heights to Toilets	22%	Construction commenced Apr 21	Continue construction	2	Emerging risk: Scope increase to include externally funded improvements as directed by council may impact ability to complete works package by end June.
341 - Low Cost Low Risk	New Footpath	Te Hiku Ward: Foreshore Road - Toilets to Panorama Ln	0%	Construction commenced Apr 21	Continue construction	2	Emerging risk: Scope increase to include externally funded improvements as directed by council may impact ability to complete works package by end June.
341 - Low Cost Low Risk	New Footpath	Te Hiku Ward: SH1 Harbour View Rd to private access	10%	Construction commenced Apr 21	Continue construction	2	Emerging risk: Scope increase to include externally funded improvements as directed by council may impact ability to complete works package by end June.
341 - Low Cost Low Risk	New Footpath	Te Hiku Ward: Donald Ln to WINZ on N Park Drive	0%	Completed	Complete	3	
341 - Low Cost Low Risk	New Footpath	Te Hiku Ward: Kaitaia - SH1 Matthews Avenue	0%	Completed	Complete	3	Footpath budgets not set for individual projects in FNDC system and are currently being updated by Ajay. Costs to be journaled from parent code once fndc budgets are updated.
341 - Low Cost Low Risk	New Footpath	Te Hiku Ward: Mill Bay Rd to Rangikapiti Rd	100%	Construction deferred as agreed with CB.	Progress advance design	1	Project deferred beyond 2020/21 programme as tender price significantly exceeds budget. Deferral endorsed by Te Hiku CB in 26 Jan meeting.
341 - Low Cost Low Risk	New Footpath	Te Hiku Ward: Kaitaia - Dominion Road	0%	Construction commenced Apr 21	Complete construction	3	
341 - Low Cost Low Risk	New Footpath	Te Hiku Ward: Mill Bay Rd Rangikapiti Rd to Richmond Rd link	100%	Construction deferred as agreed with CB.	Progress advance design	1	Project deferred beyond 2020/21 programme as tender price significantly exceeds budget. Deferral endorsed by Te Hiku CB in 26 Jan meeting.
341 - Low Cost Low Risk	New Footpath	BOI-Whangaroa Ward: Length of Pa Road	82%	Construction in progress but not completed this month as programmed due to delay in material supply.	Continue construction	3	
341 - Low Cost Low Risk	New Footpath	Kaikohe-Hokianga Ward: Horeke Rd to Cemetery 294-330	4%	Construction commenced.	Continue construction	3	
341 - Low Cost Low Risk	New Footpath	Kaikohe-Hokianga Ward: Taumataiwi St Opononi	225%	Complete	Complete	3	Footpath budgets not set for individual projects in FNDC system and are currently being updated by Ajay. Costs to be journaled from parent code once fndc budgets are updated.
341 - Low Cost Low Risk	New Footpath	Kaikohe-Hokianga Ward: Kohukohu Road Manning to Marriner	9%	Construction phase started but Council chose to halt to respond to resident concerns.	Recommence construction once council confirm resident concerns are addressed and instruction to proceed given.	2	Ability to deliver project is dependent on timely approval from council to recommence construction.
341 - Low Cost Low Risk	New Footpath	Kaikohe-Hokianga Ward: Kaikohe Footpath - Taheke Road to Orrs Road eastbound	16%	Construction could not commence as programmed due to delay to locate service by	Commence construction	3	

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Category	Sub-activity	Location	% Complete	Monthly Update	Next month planned activities	Risk	Risk Comments
				Chorus. Contractor has provided another crew to help meet construction package programme completion.			
341 - Low Cost Low Risk	New Footpath	BOI-Whangaroa Ward: Te Taipui Rd to Matauri Bay School Link	18%	Construction could not commence as programmed due to delay to locate service by Chorus. Contractor has provided another crew to help meet construction package programme completion.	Commence construction	3	
341 - Low Cost Low Risk	New Footpath	Kaikohe-Hokianga Ward: Lake Road 91 to 95	0%	In construction	Complete construction	3	
341 - Low Cost Low Risk	New Footpath	Kaikohe-Hokianga Ward: Opononi Footpath - Waianga Place	104%	In construction	Complete construction	3	
341 - Low Cost Low Risk	New Footpath	BOI-Whangaroa Ward: Ped Bridge near Main St Bridge	1%	Started the bridge location planning and consultation with utilities owners such as North Power and Telecom. Safety audit commissioned.	Continue site investigation, location consultation, and the bridge design	3	Design is expected to be complete by June. Thus, the project delivery will start next fiscal year 2021-2022
341 - Low Cost Low Risk	New Footpath	BOI-Whangaroa Ward: SH11 Kaipatiki Rd to York Rd	60%	Design is close to complete. NTC was issued to Ventia (maintenance contractor) for construction phase briefing.	Finalizing the design and construction cost, and starting preparation for the construction to start in June	2	Delivery may extend in to next fiscal year
341 - Low Cost Low Risk	Pedestrian Improvements	Hobson Ave Ped Crossing	6%			3	Project added to programme November 2020 for delivery through safety team. Updates pending.
341 - Low Cost Low Risk	Resilience	West Coast Rd RP16005	102%	Complete	Complete	3	
341 - Low Cost Low Risk	Resilience	Taupo Bay Road RP 8816 & 9169	92%	Complete	Complete	3	
341 - Low Cost Low Risk	Resilience	Mangamuka Road RP 7845 & 8387	96%	Completed	Complete	3	
341 - Low Cost Low Risk	Resilience	Kaitaia Awaroa 26991 (c/o from 19/20 currently in construction)	61%	Construction largely complete some defects still to be resolved	Construction largely complete some defects still to be resolved	3	
341 - Low Cost Low Risk	Resilience	Wainui Road RP 7200	91%	Complete	Complete	3	
341 - Low Cost Low Risk	Resilience	Panguru Road	97%	Complete	Complete but some minor defects to be addressed	3	
341 - Low Cost Low Risk	Resilience	Wharekawa Rd RP 3633	92%	Complete	Complete	3	
341 - Low Cost Low Risk	Resilience	Long Beach Road RP 294	88%	Complete	Complete	3	
341 - Low Cost Low Risk	Resilience	Waikare Road - mitigation contract	79%	Construction completed on original scope. More sites confirmed and work to recommence.	In construction	3	
341 - Low Cost Low Risk	Resilience	Powell Road RP209	31%	Peer review of design and Tender Evaluation almost complete.	Start construction.	2	Delivery may extend in to next fiscal year
341 - Low Cost Low Risk	Resilience	Sullivans Road	101%	Construction completed. Design complete for additional safety and storm water measures. Negotiation with Tarmac to undertake the additional safety measures.	Sign a contract with Tarmac and start construction of additional safety measures.	3	
341 - Low Cost Low Risk	Resilience	Powell Road RP92-169	6%	Engage maintenance contractor (FH) to price and programme pavement reinstatement	Start construction.	3	

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Category	Sub-activity	Location	% Complete	Monthly Update	Next month planned activities	Risk	Risk Comments
341 - Low Cost Low Risk	Resilience	Beach Road RO400	29%	Additional site investigation completed	Finalize Detailed Design May/ June	3	Design is expected to be complete by June. Thus, the project delivery will start next fiscal year 2021-2022
341 - Low Cost Low Risk	Resilience	Aucks Road RP2016	42%	Additional site investigation completed	Finalize Detailed Design May/ June	3	Design is expected to be complete by June. Thus, the project delivery will start next fiscal year 2021-2022
341 - Low Cost Low Risk	Safety	Keith Kent 20/21 & 21/22 projects. Audible Tactile Profile/Structural Road Markings (HRRR WC341)	41%	Ventia on site - works on- going	On-going construction at various sites	3	
341 - Low Cost Low Risk	Safety	Keith Kent 20/21 & 21/22 projects. Roadside Barriers (Guardrails) and Associated Improvements	16%	Coastline on site - works on-going	On-going construction at various sites	3	Contractor behind programme establishing on site but has provided assurance that has sufficient resources on site to complete works.
341 - Low Cost Low Risk	Safety	Route 1 Kaitaia-Ahipara (Kaitaia Awaroa Rd)	86%	Complete	Complete	3	
341 - Low Cost Low Risk	Safety	Kaitaia-Awaroa Rd RP3200	100%	Complete	Complete	3	
341 - Low Cost Low Risk	Safety	Kaitaia-Awaroa Rd RP5690	100%	Complete	Complete	3	
341 - Low Cost Low Risk	Safety	Route 7 Matauri Bay Loop Roads	120%	Complete	Complete	3	
341 - Low Cost Low Risk	Safety	Route 5 Taipa-Kaitaia (Oruru Rd, Fairburn Rd & Peria Rd)	101%	Complete	Complete	3	
341 - Low Cost Low Risk	Safety	Route 4 Kerikeri-Okaihau (Wiroa Rd, Waiare Rd, Wehirua Rd & Kerikeri Rd)	67%	Complete	Complete	3	
341 - Low Cost Low Risk	Safety	Long Beach Road improvement	100%	Complete	Complete	3	
341 - Low Cost Low Risk	Safety	Route 2 Puketona Junc- Ohaewai (Te AhuAhu & Old Bay Roads)	74%	Complete	Complete	3	
341 - Low Cost Low Risk	Safety	Panorama Ln Improvements	100%	Complete	Complete	3	
341 - Low Cost Low Risk	Safety	Intersection Upgrade Access Road	#DIV/0!	n/a	n/a	1	Carry-over from 2019/20. Redistribute funds.
341 - Low Cost Low Risk	Safety	Okaihau Triangle between SH1, SH10 and the Mungamuka's	60%	Signages manufacturing and construction/ installation are underway (95% completed). Road markings are being constructed. Inspections for Practical Completion are underway.	Complete all sign installation and road marking work	3	
341 - Low Cost Low Risk	Safety	OPEX including SNP & SPI Project Management	90%			3	Project added to programme November 2020 for delivery through safety team. Updates pending.
341 - Low Cost Low Risk	Seal Extension - Subsidised	Church Rd RP 13317 - 15017	64%	Final sealing and linemarking completed in April.	Confirmation of decision for safety audit items and installation of any items as required. To be followed by post completion snag list audit.	3	Site now complete - noted Logging operation in progress on side road within site, may pose some stress to new sealed surface - monitor
341 - Low Cost Low Risk	Seal Extension - Subsidised	Koropewa Rd RP 15 - 1833	88%	Sealing of site completed in April	Line-marking, final shoulder trimming, guardrail installation and some minor tidy up works, followed by post completion snag list audit to be completed in May.	3	Sealing of site completed - risk to site considered low
341 - Low Cost Low Risk	Sealing Chip seal	Parapara Rd 0-250	0%	Updates to be supplied by NTA Maintenance team	Updates to be supplied by NTA Maintenance team	3	
Cycle Trail Unsubsidised	Cycleways	Pou Herenga Tai Cycle Trail NZ Heritage	166%	Reporting challenges in finalizing the locations to install Pou to FNDC's Roading manager.	Finalising the locations to install Pou	2	Ongoing delays on hapu agreeing location to install Pou is impacting programme. Hence risk of non-delivery this financial year.

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Category	Sub-activity	Location	% Complete	Monthly Update	Next month planned activities	Risk	Risk Comments
				Following up with the contractor to install Pou.			
Footpath Renewal Unsubsidised	Footpath Renewal	SH12 Opononi	86%	In construction	In Construction	3	
New Footpaths - Unsubsidised	New Footpath	Te Hiku Ward: Foreshore Rd - Tasman Heights to Toilets	7%	Construction commenced Apr 21	Continue construction	2	Emerging risk: Scope increase to include externally funded improvements as directed by council may impact ability to complete works package by end June.
New Footpaths - Unsubsidised	New Footpath	Kaikohe-Hokianga Ward:Placeholder - Community Board to advise	0%			1	CB have chosen not to spend this surplus. Surplus may be used for overspend on other CB footpath projects.
New Footpaths - Unsubsidised	New Footpath	Kaikohe-Hokianga Ward: Kohukohu Road Manning to Marriner	0%	Construction phase started but Council chose to halt to respond to resident concerns.	Recommence construction once council confirm resident concerns are addressed and instruction to proceed given.	2	Ability to deliver project is dependent on timely approval from council to recommence construction.
New Footpaths - Unsubsidised	New Footpath	Long Beach Road footpath corner to carpark-Russell	100%	Complete	Complete	3	
New Footpaths - Unsubsidised	New Footpath	BOI-Whangaroa Ward: SH11 Kaipatiki Rd to York Rd	0%	Design is close to complete. NTC was issued to Ventia (maintenance contractor) for construction phase briefing.	Finalizing the design and construction cost, and starting preparation for the construction to start in June	2	Delivery may extend in to next fiscal year
Redeployment Package	New Footpath	Te Hiku Ward: Donald Ln to WINZ on N Park Drive	17%	Completed	Complete	3	
Redeployment Package	New Footpath	Te Hiku Ward: Foreshore Road, Taipa	118%	Complete	Complete	3	
Redeployment Package	New Footpath	Te Hiku Ward: Point Road, Taipa	164%	Complete	Complete	3	
Redeployment Package	New Footpath	Te Hiku Ward: Mamaru Road	137%	Complete	Complete	3	
Redeployment Package	New Footpath	Kaikohe-Hokianga Ward: Kaikohe Footpath Signal Stn Rd, Omapere	75%	Complete	Issue PCC and complete required MSQA Documentations	3	
Redeployment Package	New Footpath	BOI-Whangaroa Ward: Length of Blacks Road	100%	Complete	Defects period ends Oct 2021	3	
Resilience - Unsubsidised	Resilience	Panguru Road	47%	In construction	In construction	2	Unlikely to fully complete project this fy due to dependencies on separate bridge improvement project which is currently being constructed but delayed. Accordingly, safety barrier and pavement tie-in to the bridge likely to be deferred to next fy.
Seal Extension - Unsubsidised	Seal Extension	Balance of carry-over amount from 19/20	0%			2	
Seal Extension - Unsubsidised	Seal Extension	Pungaere Road	69%	Sealing of site completed in April	Completion of driveway and intersection sealing (subject to conditions).Completion of linemarking and signs installation. Completion of drainage improvements (minor top up of RP RAP, and culvert outfall protection works). Installation of additional (offline) shoulder support and guardrails. Completion of drainage and pavement at Stock underpass (once underpass is complete)	3	DRAINAGE: The site had some historic drainage discharge issues, however an acceptable solution was agreed with the affected landowner and improvements have now largely been completed. STOCK UNDERPASS: The construction of a stock underpass at RP9625 and is being managed by the property owner, the construction of this is expected in May/June with completion of this section of (100m) of pavement and associated drainage to follow.
Seal Extension - Unsubsidised	Seal Extension	Porotu Rd RP 0 - 1380	79%	Site complete	Rectification of driveway gradients and completion of post completion snag list close out	3	Sealing of site completed - risk to site considered low
Seal Extension - Unsubsidised	Seal Extension	Puketi Rd RP 0 - 1000	74%	Site complete	Close out completion of minor snag list items.	3	Note: Culvert issues above site need to be addressed to prevent future damage to the seal extension site (Culvert upgrade works required as part of maintenance)

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Category	Sub-activity	Location	% Complete	Monthly Update	Next month planned activities	Risk	Risk Comments
Special 100% FAR	New Footpath	Tau Henare Drive - Waitangi Trust	81%	Complete	Defects period ends Sep 2021	3	
Special 100% FAR	Sealing Chip seal	Additional funding from Waitangi Trust for Tau Henare Drive (south region)	69%	program 80% complete	chipseal complete, small AC job in Waitangi late May	3	
Walking Facilities - Unsubsidised	New Footpath	Contingency	96%	Contingency for New Footpaths programme. Cost exceeded budget for Signal Station Road and additional budget was used from Walking Facilities (556,273.5 has been paid for additional cost for the Road)	Refer Signal Station Road updates	3	

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# VENTIA – CONTRACT 7/18/101 ROAD MAINTENANCE AND RENEWALS -MONTHLY REPORT

# EXECUTIVE SUMMARY

April signalled the end of the summer construction season with some colder weather on its way. Ventia Puketona had another big month with two more to go until the end of financial year.

Two pedestrian safety projects were completed on Hobson Ave and Kerikeri Rd (outside Hunting and Fishing) with both receiving a lot of great comments from the public and businesses nearby. Our footpath team also completed the remaining renewals work out in Omapere and are heading into Rawene for May.

In April we completed the sealing on Koropewa Rd and Pungaere Rd seal extensions, remaining works include headwalls, driveway entrances, line marking and guardrail works. Both sites are looking super with once again positive feedback for Council and us Contractors. In May our pavement crews will start to switch from seal extensions to the heavy metalling programme with 3 crews working through the list until the end of June.

The annual network remark was completed in April and our culvert flushing round commenced late in the month with this programme due to be completed in June.

Our routine crews were kept busy and are all on top of their respective fields with the seasons changing.

Happy Reading 😂



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#### WORK PROGRAMME

A total of 1916 individual work items were completed throughout the month of April which 1219 were routine find and fix issues, 434 were cyclic or part of annual rounds, 169 were programmed works, 24 were renewals/capital projects, and 70 were callouts or emergency response works.

May 2021 forward works programme has been submitted in RAMM.

#### ROUTINE WORKS COMPLETED

Routine maintenance activities completed in March:

- 88 sealed potholes repaired
- 2908 unsealed potholes repaired
- 211 km of unsealed roads graded equating to 26% of the total unsealed network.

## DRAINAGE MAINTENANCE AND RENEWALS

Drainage maintenance activities completed in March:

- 273 Culvert ends cleared
- 983m of heavy water tabling
- 58m of light water tabling
- 73m Culvert pipes replaced/new

#### ROUTINE INSPECTION REPORT



Hautapu Rd - Culvert Flushing

**Sealed** - There are currently 0 sealed inspections running overdue.

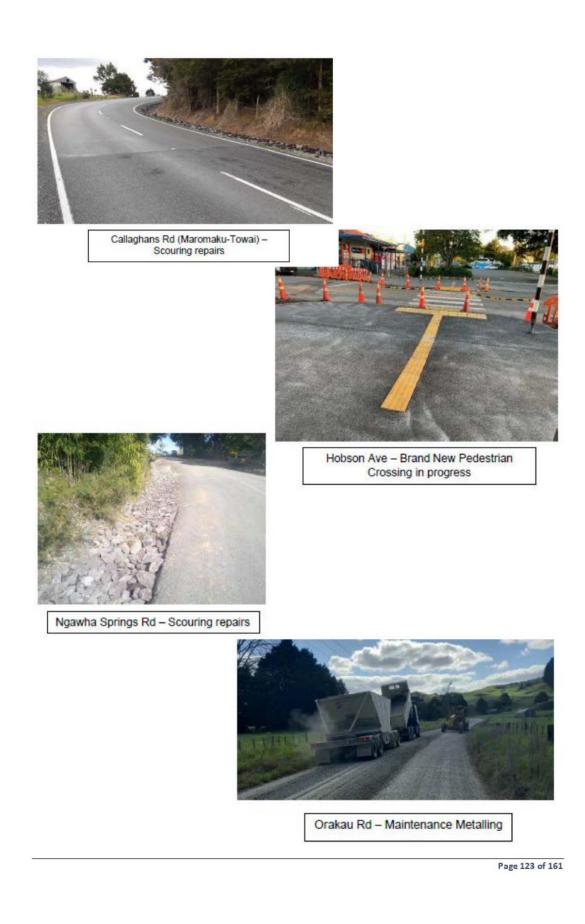
Unsealed - There are currently 0 un-sealed inspections running overdue.

Drainage - There are currently 45 drainage inspections running overdue.

#### ORDERED WORKS

- 106m<sup>2</sup> of footpath replacement/renewal were completed in April.
- Hobson Ave and Hunting and Fishing pedestrian crossings along with the last of the Omapere State Highway footpath works were ticked off the list in April. In May the team moves onto Rawene.

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#### ROAD FURNITURE ACTIVITY

- 55 new signs installed or replaced (damaged or missing)
- 6 signposts replaced/new
- 35 signs re-re-erected or straightened
- 7 signs/posts cleaned

#### STRUCTURES

Waimate North Bridge repairs were completed in April with minor repairs booked for Waitangi Bridge in early May.

#### **RESEALS/REMARKING**

A huge season of reseals was completed in April with Hone Heke Rd being the last site completed in the first week of the School Holidays, good timing with School drop offs not on! With over 42km sealed, nearly double last season, the network has had a good birthday. There are two asphalt resurfacing sites to complete in late May in Waitangi.

The network remark has been completed with a few safety and parking jobs left to complete marking for in May.

#### PAVEMENT REHABILITATIONS

#### Seal Extensions

#### Koropewa Rd – RP15 – 1833

Physical Works – Site has been sealed with linemarking booked for next week. Guardrail and headwall installation will complete this project in May.

#### Pungaere Rd – RP8820 - 12410

Physical Works – Full 3.6km of seal extension received seal in April, with some inclement weather for a few weeks right at the wrong time we managed to keep calm and ended up with some beautiful late April sealing conditions to complete the job. Site work left to complete includes – Guardrail, signs and linemarking on some sections.

#### Ngapipito Rd – RP3500 - 8435

Physical Works – Water tabling, drainage, and earthworks in progress. Dig outs and pavement overlay commencing in May.

Target Completion – 15/10/21





Pungaere Rd – Sealing and after photo

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#### Ruapekapeka Rd – RP4500 – 5800

With Pungaere Rd getting caught in weather for two weeks Ruapekapeka Rd was delayed as a result. Work on the overlay to prepare the road for stabilising post winter to commence this week and be completed by 15/5/21.

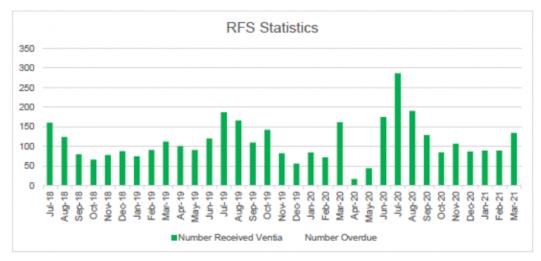
Next year's rehabilitation site list was received on 3/5/21 with advanced discussions being held with WSP OPUS to commence test pits and site investigations. Sites are – Ngawha Springs Rd, Kings Rd, Kerikeri Rd and Waikare Rd.

#### ROAD ACCIDENT REPORT

No road accidents to report this month.

#### CUSTOMER SERVICE ISSUES/COMPLAINTS

RFS statistics for March were available at the time of this report. Ventia received 134 service requests during March and had 0 overdue. The below graph shows the number of RFS's received by our branch each month during the NTA contract and any overdue.



## COMPLIMENTS

We received the following compliments in April

#### Hi Jamie

Hope things have been going well for you.

Ventia has been doing the prep for sealing Koropewa Rd, Waipapa recently. I'm on the corner and have a second entry into my place from Koropewa that I need to use for larger service vehicles. The crossing is basically compacted dirt and got quite munted with different activities happening there, culvert works, parking etc. I didn't complain as I'm not that sort of guy but did hold out hope it might be left a bit more useable.

Yesterday the sealing happened and they freshened up the crossing at the same time, even levelling it off with a bit of metal, it looks great, better than ever! I didn't know who to thank so I thought I'd start with you, so, THANKS VERY MUCH FOR ALL YOUR TEAMS EFFORTS.

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I'm sure those living on Koropewa will also enjoy the absence of potholes forming after heavy rain now its sealed too. I'll certainly enjoy getting less dust!

Thanks again Cheers

Bruce

Vegetation Team Leader

Top Energy Group

In April Kerikeri Inlet Rd was resealed and received a lot of bad press before the job had been swept. We received many calls and RFS and explained to them that the corrugations are part of a reseal construction from time to time. It depends on what speed environment, time of year and vehicle behaviour. Once swept the site was looking great and even some people took time out to reply saying humble pie has been eaten.

#### **RAMM ISSUES**

Several issues with Pocket RAMM throughout the month, where users could not add multimedia to dispatch and tablets crashing. This caused many hours of unproductivity for Pocket users while fix was applied by RAMM support.

We also noticed some inspections that had previously been closed off opened again days later. This causes some inspections to run past their due date. Council was informed who forwarded the issue to GHD to investigate.

#### HEALTH AND SAFETY

No lost time injuries in April. A summary of near misses and incident reports is included below.

ID	Hazard ID	Date of Hazard ID			Status
BRS-HAZ40614	Hazard ID - Puketona	09-Apr-2021	Puketona	Ventia Operator was following a vehicle that was driving erratically, slow then fast,	Closed
				overtaking in dangerous spots.	
BRS-HAZ40615	Hazard ID - Puketona	15-Apr-2021	Puketona	Loader was parked overnight in a stockpile area adjacent to SH10, to be used again the	Closed
				following morning for a sealing job. When crew arrived at 7:30am to use the loader the	
				batteries had been removed overnight.	
BRS-HAZ40617	Hazard ID - Puketona	14-Apr-2021	Puketona	Temp worker received a bee sting on right forearm while walking from private vehicle to	Closed
				the Ventia office upon arrival at work.	
BRS-HAZ40704	Hazard ID - Puketona	20-Apr-2021	Puketona	Wheel nut indicators are missing on some wheels on some items of medium and heavy	Open
				plant such as double axle transport trailers and trucks.	
BRS-HAZ40764	Hazard ID - Puketona	23-Apr-2021	Puketona	2 x portaloo located in the carpark without isolation controls in place - potential for	Closed
				personnel exiting from the portaloo to be contacted by a reversing vehicle	
BRS-HAZ40883	Hazard ID - Puketona	22-Apr-2021	Puketona	Finished works on site for day, 13ton excavator was being parked up for the day	Closed
				awaiting transport.	
				Member of the public appeared and verbally berated Ventia staff member in the pilot	
				vehicle about the excavator being on the sealed road and the potential damage from the	
				tracks.	

In April we had a safe for life day involving Puketona, Kaipara and the Whangarei branches of Ventia. The main theme of the day was "what's my why" – what makes us want to go home safe each day. Take 5 and look out for each other when working.

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# ENVIRONMENT

In April 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	0% completed
Biennial Parapet Painting of Bridges	0% completed
Annual Cleaning of EMP's	0% completed
Annual Sucking of All Sumps	4% completed
Biannual sweeping	68% completed – first round
Urban Vegetation Spraying	0% completed – second round
Rural Vegetation Spraying	5% completed – second round

#### COMMUNITY ENGAGEMENT

In April while out in Omapere we noticed that the Fire Stations entranceway had a large lip to the road from the existing footpath. While replacing the footpath either side of the entranceway the team prepared and asphalted the lip as a thank you to the volunteers.

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A new baby arrived in our fleet this month. A brand new Hino 700 that will tow our bottom dumper/transport trailer and brand new 26000 litre bitumen trailer that is due to arrive in October.



New Toy - Hino 700

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FULTON HOGAN -NORTH AREA MAINTENANCE NETWORK CONTRACT 7/18/100 MONTHLY REPORT



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## REHABS

- Pawarenga Road Complete
- Church Road Seal Extension Complete

Programmed Task:	Status:	Due Date:	Completed:
FWP Confirmation	Complete.	31/03/2020	23/06/2020
Investigation & Testing	Complete.	14/08/2020 (NTC) 15/11/2020 (NTA Advised)	09/12/2020
Drawings	Complete.	30/09/2020 (NTC)	11/02/2020
Design	Complete.	30/09/2020 (NTC)	21/12/2020

		(NTC)	-501507 AU/020 TOLCO 16.7
Schedule of Prices	Complete.		17/12/2020
Safety Audit	Complete.	26/02/2021	26/02/2020

## COMPLETED THIS WEEK

Day	Programmed Task	Comment	
Monday	Prep for seal.	As planned.	
Tuesday	Prep for seal.	As planned.	
Wednesday	Prep for seal.	As planned.	
Thursday	Prep for seal.	As planned.	
Friday	Public Holiday		

## PROGRAMMED FOR NEXT WEEK

Day	Task	Comment
Monday	Public Holiday	
Tuesday	Prep for seal.	
Wednesday	Prep for seal.	
Thursday	Prep for seal. Testing Booked. Seal driveways.	
Friday	Prep for seal. Seal carriageway.	

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## GENERAL COMMENTS

Wet weather on site this week has delayed progress of preparing the remainder of the site for seal.

If weather allows next week ,the remainder of the site will be prepared for seal. Testing and seal is booked for later next week, but will be weather dependent.

The final site tidy up, and 'snag list', will be completed next week, ready for disestablishment.





Figure 1: Section One Seal

Figure 2: Section One seal

Programmed Task:	Status:	Due Date:	Completed:
FWP Confirmation	Complete.	31/03/2020	23/06/2020
Investigation & Testing	Complete.	14/08/2020 (NTC) 15/11/2020 (NTA Advised)	09/12/2020
Drawings	Complete.	30/09/2020 (NTC)	11/02/2020
Design	Complete.	30/09/2020 (NTC)	21/12/2020
Schedule of Prices	Complete.		17/12/2020
Safety Audit	Complete.	26/02/2021	26/02/2020

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## COMPLETED THIS WEEK

Day	Programmed Task	Comment
Monday	Public Holiday	
Tuesday	Prep for seal.	Struggled to get slurry completed due to higher than usual temperatures and windy site. Second water cart booked to help
Wednesday	Prep for seal.	Full slurry by 2pm. Allowed to dry back before drag broom following day.
Thursday	Prep for seal. Remove shoulder and rip rap swale Testing Booked. Seal driveways.	Testing all passed. Driveways sealed as planned. Shoulder constructed opposite Dykin Road is high risk and steeper than desired. Likely to fail in future.
Friday	Seal carriageway. Tri shoulders and tidy culvert inlets	Pavement all sealed.

## PROGRAMMED FOR NEXT WEEK

Day	Task	Comment
Monday	Tidy up site – swales, culverts, install edge markers, remove survey set out etc	
Tuesday		
Wednesday	Sweep seal and mark out for line marking	
Thursday	Complete line marking	
Friday		

## GENERAL COMMENTS

Entire pavement sealed. Great job by all involved. A very nice looking seal extension. Final tidy up next week before full disestablishment.

## HEALTH AND SAFETY / OFI's / FNDC SITE VISITS

Туре	Detail	Follow up
Service strike	Digging out imported granular fill from a shoulder opposite Dykin Road, clipped the telecom cable in the bottom of Swale. Cable was ducted but not covered with timber. Did not follow FH protocols by scanning before we dig. Assumed no services in fill given we have placed it all there.	, , , ,

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Figure 1: high risk shoulder with rip rap

Figure 3: Section two seal





Figure 4: Great compaction all the way to edge of shoulder

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## PERIA ROAD SEAL EXTENSION

Fulton Hogan	Far North District Council Church Road Seal Extension	Far North District Council
	Report No.21 for week endin	g 28 <sup>th</sup> March 2021

Program Task:	Status:	Due Date:	Completed:
Site confirmation in FWP		31/03/2020	02/07/2020 (NTC)
Investigation and Testing:	FH Commenced 16/07/2020	FNDC to supply by 14/08/2020 (NTC)	FH Completed 15/09/2020
Drawings: Section One Section Two Section Three Section Four Section Five Pavement Design: Schedule of Prices:	Complete. Complete. Complete. Complete. Complete. Complete.	30/09/2020 (NTC) 01/11/2020 21/11/2020 12/12/2020 15/01/2020 3/01/2020 30/09/2020 (NTC) 20/11/2020	Issued 31/10/2020. Issued 23/11/2020. Issued 16/12/2020. Issued 22/01/2020. Issued 22/02/2020. Issued 29/10/2020. Issued 24/11/2020.
Safety Audit: Section One Section Two Section Three Section Four Section Five	Complete Complete Complete Complete Complete		7/12/2020 7/12/2020 09/02/2020 09/02/2020 02/03/2020

# Completed this week

Day	Programmed Task	Comment
Monday	Overlay Section Four Drainage Section Five Clearing Section Five	Excavators Rained off.
Tuesday	Bridge Undercuts Section Five Drainage Section Five Clearing Section Five	As planned.
Wednesday	Bridge Undercuts Section Five Drainage Section Five Clearing Section Five	Pavement digout instead of Bridge undercut.
Thursday	Bridge Undercuts Section Five Drainage Section Five	As planned.

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	Clearing Section Five	
Friday	Public Holiday	

# Programmed for next week

Day	Task	Comment
Monday	Public Holiday	
Tuesday	Stabilise Section Four Bridge Undercuts Section Five Headwalls Section Five Clearing Section Five Complete Tip Site Section Four	
Wednesday	Prep Section Four for Seal Bridge Undercuts Section Five Headwalls Section Five Rock walls Section Five Complete Tip Site Section Four	
Thursday	Prep Section Four for Seal Bridge Undercuts Section Five Rock walls Section Five Complete Tip Site Section Four	
Friday	Prep Section Four for Seal Bridge Undercuts Section Five Rock walls Section Five Complete Tip Site Section Four	

# **General Comments**

This week most of the clearing was completed in Section Five and bridge and pavement undercuts were progressed in Section Five.

Next week Section Four will be stabilised, tip sites will be tidied up and completed in Section Four, bridge undercuts will be predominantly completed in Section Five, and the last of the excavator work, including rock walls, will commence in Section Five.

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Figure 4: Section Five Clearing

Figure 5: Section Five Bridge Undercut



Figure 6: Section Five Bridge Undercut



Figure 7: Section Five Pavement undercut

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Figure 8: Section Five Bridge undercut

Figure 9: Section Five Bridge Undercut



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Fulton Hogan	Far North District Council Peria Road Seal Extension	Far North District Council
	Report No.31 for week endin	ng 11th April 2021

Program Task:	Status:	Due Date:	Completed:
Site confirmation in FWP		31/03/2020	02/07/2020 (NTC)
Investigation and Testing:	FH Commenced 16/07/2020	FNDC to supply by 14/08/2020 (NTC)	FH Completed 15/09/2020
Drawings: Section One Section Two Section Three Section Four Section Five	Complete. Complete. Complete. Complete. Complete.	30/09/2020 (NTC) 01/11/2020 21/11/2020 12/12/2020 15/01/2020 3/01/2020	Issued 31/10/2020. Issued 23/11/2020. Issued 16/12/2020. Issued 22/01/2020. Issued 22/02/2020.
Pavement Design:	Complete.	30/09/2020 (NTC)	Issued 29/10/2020.
Schedule of Prices:	Complete.	20/11/2020	Issued 24/11/2020.
Safety Audit: Section One Section Two Section Three Section Four Section Five	Complete Complete Complete Complete Complete		7/12/2020 7/12/2020 09/02/2020 09/02/2020 02/03/2020

# Completed this week

Day	Programmed Task	Comment
Monday	Public Holiday	
Tuesday	Stabilise Section Four Bridge Undercuts Section Five Headwalls Section Five Clearing Section Five Complete Tip Site Section Four	As planned.
Wednesday	Prep Section Four for Seal Bridge Undercuts Section Five Headwalls Section Five Rock walls Section Five Complete Tip Site Section Four	As planned. Rock walls not started, excavator in tip site.
Thursday	Prep Section Four for Seal Bridge Undercuts Section Five Rock walls Section Five Complete Tip Site Section Four	As planned. Rock walls not started, excavator in tip site.

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Friday	Prep Section Four for Seal Bridge Undercuts Section Five Rock walls Section Five Complete Tip Site Section Four	As planned. Rock walls not started, excavator in tip site.
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# Programmed for next week

Day	Task	Comment
Monday	Prep Section Four for Seal Bridge Undercuts Section Five Complete Tip Sites Section Four	
Tuesday	Prep Section Four for Seal Bridge Undercuts Section Five Complete Tip Sites Section Four	
Wednesday	Prep Section Four for Seal Rockwalls Section Five Complete Tip Sites Section Four	
Thursday	Prep Section Four for Seal Rockwalls Section Five Complete Tip Sites Section Four	
Friday	Prep Section Four for Seal Rockwalls Section Five Complete Tip Sites Section Four	

## **General Comments**

This week Section 4 was stabilised and bridge undercuts continued in Section 5. One tip site was completed in Section 4, and another continued to take Cut to Waste from the bridge undercuts.

Next week all tip sites will be completed in Section 4, Section 4 will continue to be prepped for seal, Bridge Undercuts will be completed in Section 5, and rock wall construction will start in Section 5. Work on the final tip site in Section 5 will also commence.

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Figure 10: Section Five Bridge Undercu

Figure 11: Section Five Bridge Undercut



Figure 12: Section Four Tip Site



Figure 13: Section Five Bridge Undercut

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Figure 16: Section Four Tip Site Tidy Up

Figure 17: Section Four Seal Prep

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Figure 18: Section Four Seal Prep



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Fulton Hogan	Far North District Council Peria Road Seal Extension	Far North District Council
	Report No.32 for week endir	ng 16th April 2021

# Investigation, Testing and Design

Program Task: Status:		Due Date:	Completed:	
Site confirmation in FWP		31/03/2020	02/07/2020 (NTC)	
Investigation and Testing:	FH Commenced 16/07/2020	FNDC to supply by 14/08/2020 (NTC)	FH Completed 15/09/2020	
Drawings: Section One Section Two Section Three Section Four Section Five	Complete. Complete. Complete. Complete. Complete.	30/09/2020 (NTC) 01/11/2020 21/11/2020 12/12/2020 15/01/2020 3/01/2020	Issued 31/10/2020. Issued 23/11/2020. Issued 16/12/2020. Issued 22/01/2020. Issued 22/02/2020.	
Pavement Design:	Complete.	30/09/2020 (NTC)	Issued 29/10/2020.	
Schedule of Prices:	Complete.	20/11/2020	Issued 24/11/2020.	
Safety Audit: Section One Section Two Section Three Section Four Section Five	Complete Complete Complete Complete Complete		7/12/2020 7/12/2020 09/02/2020 09/02/2020 02/03/2020	

## Completed this week

Day	Programmed Task	Comment
Monday	Prep Section Four for Seal Bridge Undercuts Section Five Complete Tip Sites Section Four	As planned.
Tuesday	Prep Section Four for Seal Bridge Undercuts Section Five Complete Tip Sites Section Four	As planned.
Wednesday	Prep Section Four for Seal Rockwalls Section Five Complete Tip Sites Section Four	Rockwalls not started. Slips from recent rain cleared.
Thursday	Prep Section Four for Seal Rockwalls Section Five Complete Tip Sites Section Four	Rockwalls not started. Slips from recent rain cleared.
Friday	Prep Section Four for Seal Rockwalls Section Five	Rockwalls not started. Tip Site tidy up in Section 5 started.

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	Complete Tip Sites Section Four	
Programm Day	ed for next week Task	Comment
Monday	Seal Section 4 Section 5 Tip Site Tidy up	
Tuesday	Seal Section 4 Driveways Section 5 Shoulder Undercuts Section 5 Tip Site Tidy up	
Wednesday	Section 5 Shoulder Undercuts Rock walls Section Five Section 5 Tip Site Tidy up	
Thursday	Section 5 Pavement Overlay Rock walls Section Five Section 5 Tip Site Tidy up	
Friday	Section 5 Pavement Overlay Rock walls Section Five Section 5 Tip Site Tidy up	

### **General Comments**

This week Section 4 was prepared for seal, with Nuke Testing successfully completed on Friday. Bridge undercuts were completed in Section 5 on Tuesday, and the final tidy up of tip sites in Section 4 was completed by Thursday. Small slips throughout Sections 4 and 5 were cleared this week, after the site received 98mm of rain over the weekend.

Next week, Section 4 will be sealed on Monday, Section 5 shoulder undercuts will commence on Tuesday, and the final excavator work in Section 5 will be started. The overlay in Section 5 will also commence next week.

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Figure 25: Section Four Storm Damage



Figure 27. Section Five Bridge Undercat

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Fulton Hogan

## Far North District Council Peria Road Seal Extension



Report No.33 for week ending 25th April 2021

# Investigation, Testing and Design

Program Task:	Status:	Due Date:	Completed:
Site confirmation in FWP		31/03/2020	02/07/2020 (NTC)
Investigation and Testing:	FH Commenced 16/07/2020	FNDC to supply by 14/08/2020 (NTC)	FH Completed 15/09/2020
Drawings: Section One Section Two Section Three Section Four Section Five Pavement Design: Schedule of Prices:	Complete. Complete. Complete. Complete. Complete. Complete.	30/09/2020 (NTC) 01/11/2020 21/11/2020 12/12/2020 15/01/2020 3/01/2020 30/09/2020 (NTC) 20/11/2020	Issued 31/10/2020. Issued 23/11/2020. Issued 16/12/2020. Issued 22/01/2020. Issued 22/02/2020. Issued 29/10/2020. Issued 24/11/2020.
Safety Audit: Section One Section Two Section Three Section Four Section Five	Complete Complete Complete Complete Complete		7/12/2020 7/12/2020 09/02/2020 09/02/2020 02/03/2020

## Completed this week

Day	Programmed Task	Comment			
Monday	Seal Section 4 Section 5 Tip Site Tidy up	As planned.			
Tuesday	Seal Section 4 Driveways Section 5 Shoulder Undercuts Section 5 Tip Site Tidy up	Seal and excavators rained off.			
Wednesday	Section 5 Shoulder Undercuts Rock walls Section Five Section 5 Tip Site Tidy up	Excavator rained off.			
Thursday	Section 5 Pavement Overlay Rock walls Section Five Section 5 Tip Site Tidy up	Excavators both in Tip site.			
Friday	Section 5 Pavement Overlay Rock walls Section Five Section 5 Tip Site Tidy up	Excavators both in Tip site.			

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Day	Task	Comment
Monday	Section 5 Pavement Overlay Section 5 Tip Site Tidy up	
Tuesday	Section 5 Pavement Overlay Section 5 Tip Site Tidy up	
Wednesday	Section 5 Pavement Overlay Section 5 Tip Site Tidy up Section 5 Rockwalls	
Thursday	Section 5 Pavement Overlay Section 5 Tip Site Tidy up Section 5 Rockwalls	
Friday	Section 5 Pavement Overlay Section 5 Tip Site Tidy up Section 5 Rockwalls	

## Programmed for next week

## **General Comments**

This week Section 4 was sealed, driveways were unable to be sealed due to wet weather on Tuesday. Shoulder undercuts have been completed in Section 5 this week, and the pavement overlay has commenced. Excavators have worked this week when possible, starting the tidy up of the final tip site.

Next week the overlay will continue, with the metal to be run in to half the overlay depth, with the remainder to be placed after winter. The tip site work will continue next week, and rock work will commence after the tip site, to make the most of any fine weather.



Figure 28: Section Four Ready for seal

Figure 29: Section Four Ready for seal

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Figure 34: Section Four Seal complete

Figure 35: Section 4 Seal Complete

#### Unsealed Maintenance 800km

- Grading 288 km
- Potholes 926 ea
- Maintenance Metal 1684 m3
- Envelope Mowing 103km

#### Sealed Maintenance

- Potholes 27 ea
- Edge break 1.6m
- Berm mowing 199km

#### Drainage

• Routine Maintenance 112 ea



Figure 36: Section 4 Seal complete

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#### **HEALTH & SAFETY**

No injuries this month.

Туре	# during period	# to date	Days since last incident
Lost time injury (LTI)	0	2	231
Medical Treatment Case (MTC)	0	0	1038
First Aid Injury (FAI)	0	0	1038

#### QUALITY AND TRAINING

#### Environmental non-compliance notices issued

• Nil non-compliances to report.

#### Notice to Contractor issued

- NTC 65 West Coast Rd Section C
- NTC 67 P17 Specification Reminder
- NTC 68 West Coast Rd RP 9.01
- NTC 69 DLM 2018/19 Reseals
- NTC 70 Pawarenga Road Rehab Instruction to Lay Pavement
- NTC 71 FNDC Nth\_2021-2022 Rehabs

#### Training

• Inductions for Subcontractors.

#### RAMM Issue for the month

• Nil

#### FEEDBACK

22 April 2021

Location: Waiotehue Road, Kaitaia

Customer has called in to say a very big contractor who mowed the sides of their road. She mentioned that he has done a wonderful job.

#### MAY PROGRAMME

The maintenance activities programmed for May 2021 relate to routine sealed and unsealed maintenance activities such as grading, sealed and unsealed potholes, unsealed road metaling etc.

- The Pawarenga Road Pavement Rehabilitation: Run in metal for Section 1
- Peria Rd: Run in remainder of metal for section 5.
- West Coast Rd Road Raising Contract: Seal and complete.

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WAKA KOTAHI NZ TRANSPORT AGENCY -NORTHLAND ACTIVITY UPDATE



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Activity	2018-21 NLTP	Completion	Progress	Commentary
State highway maintenance,	\$75.40M	100%	Green	Waka Kotahi has completed the works deferred due to COVID19.
operations and renewals				Our finalised programme is 110 lane km's and to date we have completed 112 km. Rehab and SCRIM sites completed
Low Cost / Low Risk	\$5.3M	95%	Green	Whangarei District Council
				Resilience: SH1 Otanga Flats subsidence repairs – completed.
				Far North District Council Projects
				Resilience projects: SH1 Otiria Flood Mitigation physical works near completion; SH10 Bushpoint works completed.
				Safety projects: Moerewa Pedestrian Safety raised platform pedestrian crossing awaiting final costings so we can sta Safety installation completed.
				Walking and Cycling Projects: SH11 Haruru Falls Design – Final design completed and contract about to be awarded.
				SH12 Omapere to Opononi 3km – Following review Waka Kotahi require design to enable drainage and stormwater in
				SH1 Kawakawa Pedestrian Crossing – A preliminary design has been completed for a raised platform. Working with F team.
				SH1/North Road (Kaitaia) intersection pavement works have been completed. Works continue for footpath realignme
				Kaipara District Council Projects
				Resilience: SH12 Oparakau Slip – Building 2 small retaining walls that are scheduled to be completed before year end
				SH12 Signs & Delineation West of Maungaturoto complete
				Other
				Four projects are to be delivered this financial year with signage targeting safety on SH15, SH11, SH10 and SH1 Cape
				Mangamuka Gorge: Work is progressing, but the Gorge remains closed (due to slips from the July 2020 storm). All the completed at the main Slip 8. Anchors are being installed and final drainage etc in preparation for pavement works. L week and on track to opening for light vehicles on Queens Birthday weekend and project completion at end of June,
				SH1 Mangamuka Gorge   NZ Transport Agency
SH1: Dome Valley Safety	\$31.7M	Late-2021	Green	Work continues in stages 3 and 5, either side of the Dome peak. This work is planned to be complete late 2021.
Improvements				SH1 Dome Valley   NZ Transport Agency
Northland speed review		2021	Green	Waka Kotahi is continuing its review of speeds in Northland, and is currently in the engagement phase of its review o From 3 May – 14 June Waka Kotahi is actively seeking feedback from local Northland communities to help inform this
				SH10 Awanui to Kaingaroa speed review – Waka Kotahi is finalising the technical aspects of this review, including safe Kareponia marae and Mahimaru marae, to help inform its final decision on the proposed speed limits.
				Speed Review Locations   NZ Transport Agency
SH1 Whangārei to Te Hana		Late –	Green	Following significant project development work, Waka Kotahi has recently completed a baseline exercise to provide u
- Whangārei to Port Marsden Highway - NZ Upgrade Programme		2027/8		stronger basis for decision-making to Ministers around the scope, cost and schedule of each project within the NZ Up Whangarei to Port Marsden Highway. This information has now been provided to the Ministers of Transport and Infr completion of the baseline exercise, and Waka Kotahi is awaiting decisions from the Government.
- Port Marsden Highway to Te				Geotech investigations, site walkovers, survey and environmental monitoring are underway.
Hana				The preferred option will be confirmed by late-2021, through the development of the Single Stage Business Case (SSE

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# .

tart Physical Works. Kaeo Pedestrian

## ed.

r installation through township.

h FNDC Innovative Streets Project

ment and kerb replacement.

end.

## pe Reinga.

the downhill piles are now s. Last minor slip works to start next ne, weather permitting.

v of nine corridors across Northland. this review.

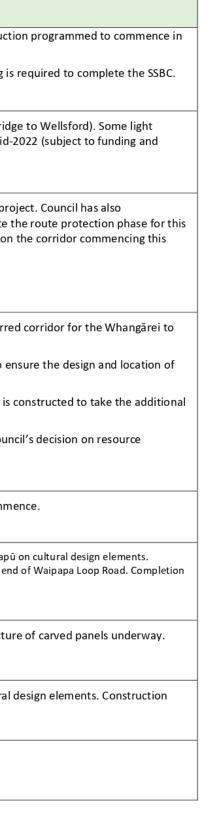
afety improvements at the

de updated information and a Upgrade Programme, including nfrastructure following the

SSBC).

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Activity	2018-21 NLTP	Completion	Progress	Commentary
				Lodgement of Notice of Requirement and resource consents is currently programmed for early-2022, with constructive late-2023/24.
				The Port Marsden Highway to Te Hana section is not funded by the NZ Upgrade Programme and therefore funding is
				Whangarei to Te Hana   NZ Transport Agency    Whangarei to Port Marsden Highway
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 Bridg construction (rumble strips etc) will commence from mid-2021, with main construction expected to commence mid-2 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 pro recommended Waka Kotahi confirm the Warkworth to Wellsford Notice of Requirement (NoR) which will complete t project and provide long term certainty to the adjacent communities. Waka Kotahi does not anticipate any works on decade.
				The finalisation of the NoR decision and appeal time frames will potentially extend through to June 2021.
				SH1 Warkworth to Wellsford
SH1 Loop Road Safety improvements	\$48.76M	Early 2022	Amber	Road works at Loop Road will pause in May as Waka Kotahi NZ Transport Agency awaits confirmation of the preferre Port Marsden Highway four-lane upgrade later this year.
				Additional design time is required prior to constructing the proposed two-lane bridge for the Loop Road project to er the bridge can be incorporated into the four-lane upgrade.
				The Loop Road intersection will continue to operate as a single lane roundabout until a bridge over Otaika Stream is a southbound lane.
				Consent hearing for the dual-lane scheme (additional southbound lane and new bridge) was held in March and Coun consents, and recommendation of NoR decision, is pending.
				SH1 Loop Road Safety Improvements   NZ Transport Agency
SH10 Kaeo bridge	\$32.6M	Late 2022	Amber	Additional funding has been confirmed. Negotiations with contractors are continuing before construction can comme
				Kaeo Bridge   NZ Transport Agency
SH10 Waipapa corridor improvements	\$24.5M	Early 2021	Green	Most works (roundabout, SH10, Waipapa Road and Skippers Lane) for this project are complete. We are working with local hapū Construction of a bridge over the Whiriwhiritoa Stream is nearing completion. Work is progressing on the new carpark at the end date for this project is scheduled for June 2021.
				SH10 Waipapa Corridor Improvements   NZ Transport Agency
SH1/11 Kawakawa intersection improvements (NZ Upgrade Programme)	\$6M	Mid 2021	Green	Traffic flowing through operating roundabout. Construction of retaining wall making good progress, with manufactur Other cultural design elements (pou, kōhatu) have been discussed and planned with local iwi.
SH10/11 Puketona Junction intersection improvements (NZ Upgrade Programme)	\$15M	Mid 2021	Green	Roundabout now operating. Majority of asphalting has been completed. We are working with local hapū on cultural scheduled for completion by May 2021.
SH12 Rawene Road intersection improvements (NZ Upgrade Programme)	\$0.5M	May 2021	Green	Construction of safety improvement in progress.



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# 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

- During the month of April, Far North Waters experienced no LTIs or MTIs, and is currently operating with 1,311 days LTI free.
- 414 requests for service (RFS) call outs in April, down from 427 in March, and up from 328 in February.
- New organisation structure is in place since mid-April, with a dedicated team for Water & Wastewater Process in charge of the Treatment plants, a team for Operations & Maintenance, including Wastewater complex assets (pump stations) and a team for Water reticulation.
- There is a new way of reporting our RFS Alliance KPIs in a new format

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#### **OPERATIONS & MAINTENANCE**

- Following an electrical shock incident in March at Pump Station 13, Mangonui, all Pump Stations along the East Coast have been reviewed and a plan for upgrade has been shared with FNDC.
- Lonely Valley Pump Station investigation is complete, report sent to FNDC for review.
- Cemetery Rawene leak repaired on the main water line.
- In Paihia, before ANZAC weekend large water leak was repaired at Joyces Road reinstatement and the following day at Puketona Rd/Haruru Falls intersection there was a significant leak. These were both due to damage by the optic fibre contractor.

#### WATER & WASTEWATER PROCESS

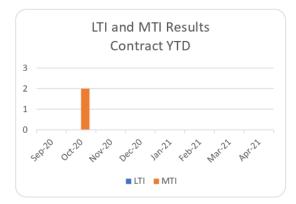
- Russell Monitoring Bores access to the 52 bores in the 34 Ha block forest is resolved. Robotech has
  been on site to redesign the driveway. A new vehicle for easy access has been ordered and should be on
  site by mid-May. Pond is in very poor condition and replacement/repair request has been submitted to
  FNDC. The grease line on the decant swivel has come loose and needs reattaching scheduled
  beginning of May.
- Okaihau WTP new bore need to monitor for manganese and a request has been, raised with FNDC to
  design additional inlet works to remove the manganese.
- Wairoro Dam (Kaikohe Taraire Hill) has algal bloom outside of DWS criteria. Cleaning is scheduled mid-May.
- Kaitaia WWTP weed in the ponds #3 odour complaints resolved with nontoxic chemicals.
- Kaitaia Sweetwater Bore #1 mobile treatment unit decommissioned by Watercare mid of April

#### HEALTH AND SAFETY

- Risks and Opportunities
  - o Risk Wellbeing of staff members physical health
  - Risk Mobile plant and vehicles VOCs
  - o Risk Non-electrical workers accessing electrical cabinets toolbox meetings

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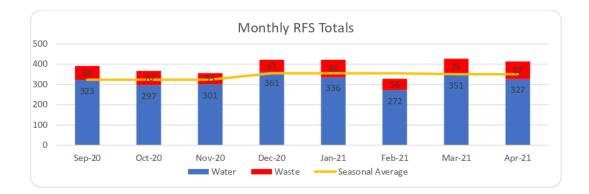
- Key Activities:
  - HSE Field staff meeting scheduled 08th April
  - Regional HSE meeting scheduled 27th April
  - Hep A&B vaccination program (blood tests Ongoing)



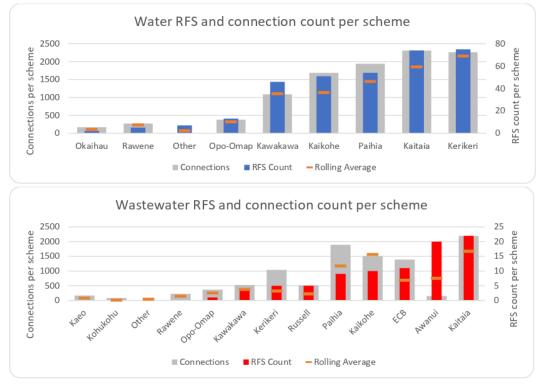
Incident ID	Incident Date	Incident Type	Severity	Description
BRS- INC189308	28/Apr/2021	Close Call		While lifting pump from manhole, the galvanised chain snapped, and the pump dropped to the bottom of the well.
BRS- INC189158	19/Apr/2021	Non-Work Related	Low 4	Non-work-related injury aggravated at work
BRS- INC189077	13/Apr/2021	Security		External single door of an unmonitored consignment storeroom forced open by unknown intruder. Exact time of incident unknown.
BRS- INC188976	06/Apr/2021	Asset Strike		Digging sewer line in bush and hit 50 pair telecom cable. Cable was not marked and was located directly above power.

#### CUSTOMERS

The request for service (RFS) total for April was 414, down from 427 in March. The total for April 2020 was 199, and April 2019 was 293.



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New Calling Cards have been created and have been given to all FNW to leave at homes if the owner is not present or contactable.

FAR NORTH WATERS C.	ALLING CARD	FA	R NORTH WATERS	Do'w
WATER SUPPLY We provide a under its MICC through dedicated and Altist genometic with g 347 large back one community with clean (publicly) driving where and entroved of the vocite atteam, wants write:	We stopped in, but you weren't home. Please see everleaf for the reason for our visit		kia cra. While you were cut, we called in to see you. A Request for Service regarding water or sewage was moently reported in this crea. This	Water Wastewater Storm water
WATER TREATMENT Water i toison tear a source and treated at our plants, decisated ecen- ter matrices the ability within water increased to ensure our water is safe and unitiest to meet the demand of our ecennuity.	Far North District Council	6	and is to advise you that our learn have been looking into this matter for you.	Temporary fixed - we will return on:
WATER CONSERVATION However, the coalchilly of water is on too for our community. Reservois are indexide coachie, we inserted a surger out our materianed is strong	the Far North District Councel's 94 hour Call Centre on 0560 720 027, or emoil us: askus@indc.govLns and quote your		Please see overleaf if you have any enquines, or require any further information.	Private ssue - contact your local plumber Itsue referred for furmer investigation
Ing differs time, we must conserve water for our community and future. WASTEWATER Demander not to frum items such as body wipes down the dram. Her don't	Request For Service (RFS) number (loopted overleaf).		Kind Regards. 5 Waters Aliance Team, Far Horn Wates and PHDG	Comments
class pass. An list in Water, beforen intensing the environment before that are found it.	Per Morth Destrict Council <b>ventra</b>	$\sim$	Venter venter	

#### PROJECTS

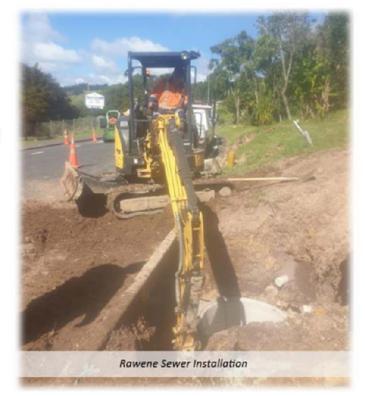
- The current focus is to continue to complete the work in hand by the end of June 2021, including Stormwater work.
- Pricing is underway for the changes to the Kaitaia Plant in preparation of the new waterline from the Sweetwater Bore.
- A program has been developed for the 2020-2021 schedule of work with a value of \$2,219,516.00. Other work will be required to meet targets.

#### **Current focus:**

Kaitaia Te Maire Avenue – pressure testing to complete and claim issues to resolve

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- Pump station upgrades four remaining pump stations to be upgraded
- Waipapa laterals
- Kawakawa Creek repairs
- Kaitaia Zonal Meters
- Water meter replacements
- Valve Inspections
- Kaitaia and Opononi: Location Compliance Certification (LCC) is on going
- Taraire Hills Bund replacement



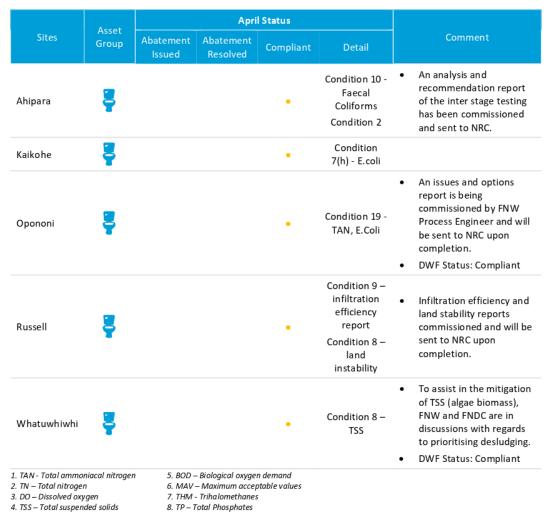
#### ASSETS

Planned Maintenance for the month of April was completed. More detailed reporting to be included next month.



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#### COMPLIANCE



#### FAR NORTH WATERS NEW ORGANISATIONAL CHART





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## DIA REPORT

Date Range: April 2021	Report Ran: 5/05/2021 17:30
Water Urgent	Attend/Resolve KPI DIA/LTP/Alliance
"Water-Urgent" Submissions	
1 Median Attend Time (Hours) DIA 3a (30a) LTP 2. Target <= 2hrs 0.02 Median Resolve Time (Hours) DIA 3b (30b) LTP 2 Target <= 4hrs 1.13	
Water N	Ion-Urgent Attend/Resolve KPI DIA/LTP/Alliance
"Wat	ter Non-Urgent" Submissions
	104 nd Time (Hours) DIA 3c (30c) LTP 2.1.3 Target <= 48hrs 25.03 ve Time (Hours) DIA 3d (30d) LTP 2.1.3 Target <= 72hrs 20.00
Water Ot	30.38 her - Water Connections Alliance
"Water Ot	her" Submission Connections Only
	2 tesolve Time (Hours) Connections Only Target <= 24hrs 219.31 er Satisfaction (Quality/Continunity of
	Supply) DIA/LTP
Wat	ter Quality/Continuity Faults
Total Water O	16 Quality Faults per 1000 DIA 4 LTP 2.1.4
Total Watch o	Target <=100/annum 1.57
	April 2021 Water Urgent "W Median Atten Median Resolu Water I "Wat Median Atten Median Atten Median Resolu Water Ot Water Ot

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## 6.2 INFRASTRUCTURE COMMITTEE ACTION SHEET UPDATE JULY 2021

File Number:	A3278961
Author:	Kim Hammond, Meetings Administrator
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 July 2021.

## 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. Outstanding Actions For Infrastructure Committee 20200101 - 20210707 - A3278954 🗓

		OUTSTANDING ACTIONS REPORT		esday, 7 July 2021	2:15:26 PM
	C	ivision: ommittee: Infrastructure Committee fficer:	Date From: Date To:	1/01/2020 7/07/2021	
Meeting	Title	Resolution			
9/09/2020	Three Waters Programme of Works	COMMITTEE RESOLUTION 2020/4 Moved: Cr Felicity Foy Seconded: Deputy Mayor Ann Court That the Infrastructure Committee approves the attached programme of wo with the Water Services Alliance Agreement for the amount of \$2,479,516.0		orth Waters in a	accordance
					CARRIED
		Note: The Infrastrucure Committee request an update on the Kaitaia Dam at the	next Infrastru	icture Committe	e meeting.
24/03/2021	Kaikohe Waste Water Treatment Plant - Access Safety Assessment and Action Report	<ul> <li>RESOLUTION 2021/8</li> <li>Moved: Cr John Vujcich Seconded: Mayor John Carter</li> <li>That the Infrastructure Committee: <ul> <li>a) approve the engagement of Northland Forest Managers to undertake the oxidation ponds in Cumber Road, Kaikohe.</li> <li>b) approve the removal of all the hazardous gum and pine trees over the c) approve that the cost of replanting of an estimated \$4,000 is funded f</li> <li>d) approve the payment of \$30.00 to Carmen Zielinski for her costs and \$ to the refund of \$30.00.</li> </ul> </li> <li>Note: The Infrastructure Committee members are disappointed that this issue way Note: The Infrastructure Committee request that the Committee are provided wit undertaken and request a report be provided back to the Committee on the final</li> </ul>	e access road from the net r 670 an hour fo as not addres th a timeline fo	d, as outlined i revenue under or ongoing time sed in a timely or the work to be	n Option 4. Option 4. e in relation CARRIED manner.

Far North District Council

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		OUTSTANDING ACTIONS REPORT	Printed: Wednesday, 7 July 2021 2:15:26 PM
	C	ivision: ommittee: Infrastructure Committee fficer:	Date From:         1/01/2020           Date To:         7/07/2021
Meeting	Title	Resolution	
5/05/2021	Economic and Practicability Assessment for Disposal of Treated Wastewater to Land from Kaikohe and Kaitāia Wastewater Treatment Plants	<ul> <li>RESOLUTION 2021/14</li> <li>That the Infrastructure Committee: <ul> <li>a) agree the option of disposing treated wastewater to land from the K plants is further investigated, specifically:</li> <li>i) engagement with affected landowners and mana whenua to a to be taken forward for preliminary design.</li> <li>ii) complete a preliminary design that includes site specific terminand disposal in which mana whenua are to be included.</li> </ul> </li> <li>b) request that the preliminary designs are to be completed prior to Plan engagement process and request staff report back to the findings of the preliminary design reports.</li> <li>c) request staff seek replacement resource consents for discharge Kāitaia and Kaikohe Wastewater Treatment Plants and that durin investigation of disposal to land options for both the Kāitaia and F</li> <li>d) request a treated wastewater disposal to land workshop be scheed Committee, which will cover methodologies and processes associated in the Long Term Plan delibe for each Wastewater Treatment Plant, and sufficient staffing reso engagement with mana whenua and other stakeholders.</li> </ul>	determine the selection of a preferred site chnical, design, and cost investigation of December 2023, to enable the Long Term Infrastructure Committee to present the e of treated wastewater to water from the g the term of the consent, staff progress Kaikohe Waste Water schemes. duled for late 2021 with the Infrastructure ciated with establishing a disposal to land liture of up to \$330,000 to cover both the erations, to complete a preliminary design
5/05/2021	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	

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		OUTSTANDING ACTIONS REPORT	Printed: Wednesday, 7 July 2021 2:15:26 PM
	C	ivision: ommittee: Infrastructure Committee fficer:	Date From:         1/01/2020           Date To:         7/07/2021
Meeting	Title	Resolution	
		<ul> <li>b) That the Chief Executive Officer prepare a delivery plan on the Study.</li> </ul>	Tourism Infrastructure Fund Boat Ramp
			CARRIED
		RESOLUTION 2021/12	
		Moved: Cr Kelly Stratford Seconded: Cr John Vujcich	
Infrastructure P	Proposed Paihia Water	That the Infrastructure Committee:	
Committee 5/05/2021	Treatment Plant Project Delivery Roadmap	<ul> <li>a) notes the risks associated with the on-going operation of the exist Opua, Waitangi and Haruru;</li> </ul>	ting Water Treatment Plant serving Paihia,
		<ul> <li>b) notes the proposed roadmap for progression of the investment in water supply.</li> </ul>	a new treatment plant for the Paihia-Opua
			CARRIED
		RESOLUTION 2021/12	
	Proposed Paihia Water Treatment Plant Project Delivery Roadmap	Moved: Cr Kelly Stratford Seconded: Cr John Vujcich	
Infrastructure		That the Infrastructure Committee:	
Committee 5/05/2021		<ul> <li>a) notes the risks associated with the on-going operation of the exist Opua, Waitangi and Haruru;</li> </ul>	ting Water Treatment Plant serving Paihia,
		<ul> <li>b) notes the proposed roadmap for progression of the investment in water supply.</li> </ul>	a new treatment plant for the Paihia-Opua
			CARRIED

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# 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 - Recommendation to award Contract 7/21/185 for Lighting Maintenance and Renewals	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
		exist under section 6 or section

# 8 KARAKIA WHAKAMUTUNGA – CLOSING PRAYER

9 TE KAPINGA HUI / MEETING CLOSE