

# Council

**Unsealed Roading Network Audit** 

**Prepared for Far North District Council** 

August 2019

Ref L21634a



# Far North District Council

# Unsealed Road Network Audit

Prepared by J. Charlwood

**SENIOR ROADING** 

**ENGINEER** 

Prepared by N. Douglas

SENIOR ROADING

**ENGINEER** 

Ian Hutchinson Consultants Ltd

P O Box 150, Orewa 0946

154 Centreway Road, Orewa 0931

Reviewed by P. Farley

**TEAM LEADER** 

(CIVIL)

+64 9 426 5702

info@hc.co.nz

www.hc.co.nz

Approved by I.T. Hutchinson

PRINCIPAL ENGINEER

**Date** 23 August 2019

Status Version 1

#### **EXECUTIVE SUMMARY**

Hutchinson Consulting Engineers (Hutchinson) has been engaged by Far North District Council (FNDC) to undertake an independent random audit of the condition of the unsealed network throughout the district. The randomly distributed audit also looks at the performance of both Road Corridor Maintenance Contract (RCM) areas with respect to the contract specifications and each other.

The Far North District is portioned in two individual contract areas and these areas are maintained by the following contractors;

Northern Contractor: Fulton Hogan Limited Southern Contractor: Broadspectrum NZ Limited

In accordance with the approved FNDC brief, the objective of the audit was to:

- Summarise the correlation between the approved specifications and physical works.
- Evaluate the overall condition of the unsealed network.
- Review the suitability of the contract specifications for the environment.
- Review the suitability of the intervention levels for the environment.
- Provide general recommendations.

Following discussions with representatives of FNDC, it was agreed that Hutchinson would randomly select approximately 20 roads from throughout the district and conduct an onsite observation of each road selected.

The carriageways were selected from RAMM to provide as best range as possible of traffic volumes, road classification and carriageway characteristics while ensuring an adequate spread across the district.

The 21 roads randomly chosen for assessment were:

Waimamaku Beach Road	Waimamaku
Waiotemarama Gorge Road	Waiotemarama
3. Horeke Road	Horeke
4. Wharepunga Road	Otaua
5. Opara Road	Oue
6. Orakau Road	Tautoto
7. Tapuhi Road	Tapuhi
8. Pipiwai Road	Matawaia
9. Waikare Road	Jacks Bay
10. Runaruna Road	Panguru
11. Diggers Valley Road	Takahue
12. Kauaepepe Road	Broadwood
13. Paponga Road	Broadwood
14. Puketotara Road	Kerikeri
15. Martin Road	Kaeo
16. Kohumaru Road	Mangonui
17. Duncan Road	Kaingarua
18. Henderson Bay Road	Ngataki
19. Te Paki Stream Road	Te Paki
20. Te Hapua Road	Te Hapua
21. Rarawa Beach Road	Ngataki

During the site assessments, the focus was to provide an overall 'snapshot' condition assessment of the carriageways and execution of any maintenance work in regards to Far North District Councils contract specifications and industry 'best practice'. Our observations generally included:

- Roadside Drainage
- Pavement Condition
- Crossfall and Superelevation
- Defects (Potholing, Corrugations, Drainage etc)

This office carried out an assessment of 21 carriageways throughout the Far North District over three days from Wednesday the 17<sup>th</sup> to Friday the 19<sup>th</sup> of July respectively. During the course of our site observations we covered approximately 1100km of the FNDC network and the unsealed portion of the network was generally observed to be in satisfactory condition, with the majority of carriageways assessed as fit for purpose. The three obvious mechanisms of pavement failure throughout the unsealed network can be summarised as:

- Inadequate drainage
- Incorrect crossfall
- Insufficient pavement thickness

We were also engaged to evaluate the quality of the completed works and review the suitability of maintenance methodology. We generally found the maintenance works to have been completed in accordance with the contract specification, however the methodology could be improved.

Our general recommendations to improve the network performance are as follows:

- Install culvert flumes where notable scour is occurring on outlets
- Construct cut off drains at the top of significant cut batters to mitigate erosion of the embankment
- Increase the frequency of water table cut-outs to direct run-off out of the water table and mitigate potential for scouring and concentrated run-off
- Install water table scour protection i.e. placement of rock rip-rap, particularly on steep sections of carriageway
- Implement a cyclic water tabling maintenance programme to ensure drainage is sufficiently maintained at all times
- Re-shape the carriageway to create sufficient crossfall and super elevation
- Supply, place and compact replenishment aggregate in areas where subgrade is exposed and/or high traffic volumes are present

During our site observations, the unsealed roads we visited generally exhibited adequate crossfall and carriageway shape however, in some areas where the carriageway lacked crossfall (particularly on the exit of horizontal curves) potholing was an obvious issue.

To re-shape the road including the underlying subgrade formation would be a costly exercise and is typically carried out as part of a renewal programme and/or seal extension work. However, if the maintenance contractors gradually started to re-shape the carriageway as part of the surface grading maintenance, even in 20mm increments, over 10 grading cycles the road would then reflect a 6% crossfall which would help to prevent potholing.

If the entire unsealed roading network was consistently shaped having crossfalls within the 6% to 8% range and super elevation limited to around 10%, provided there are no longitudinal grades or other geometric constraints, this would have a significant beneficial effect on the maintenance demand of the network.

A competent and durable unsealed pavement requiring minimal maintenance is constructed on stable ground by providing

- Adequate roadside drainage
- Sufficient transverse cross fall (6% to 8%)
- Adequate and appropriate basecourse\*

\*'The Main Highways Board (1938) Book of Instructions and Standard Specifications' Although 'outdated' the most appropriate basecourse specification for unsealed road maintenance is the Main Highways Board (MHB) 1938 specification.

The MHB in New Zealand was created by the Main Highways Act, passed in 1922 and came into effect in 1924.

The MHB was replaced by the National Roads Board (NRB) in 1954, Transit New Zealand in 1989 then more recently New Zealand Transport Agency (NZTA) in 2008.

The MHB (1938) Book of Instructions and Standard Specifications is familiar to few and omitted from modern specifications. It is however as relevant today as it was when it was originally developed when the majority of roads through New Zealand were unsealed.

The MHB (1938) Specification appropriately details the aggregate types and maintenance procedures required for an unsealed roading network.

The modern practitioner should familiarise themselves with this MHB (1938) document as it defines appropriate practical means of competently managing replenishment materials for unsealed pavements.

## **TABLE OF CONTENTS**

- 1.0 INTRODUCTION
- 2.0 OBJECTIVE AND SCOPE
  - 2.1 Objective
  - 2.2 Scope
  - 2.3 Limitations
- 3.0 SITE LOCATION
- 4.0 DESKTOP STUDY
- 5.0 NETWORK DESCRIPTION
- 6.0 GENERAL NETWORK OBSERVATIONS
- 7.0 SITE SPECIFIC OBSERVATIONS
- 8.0 OBSERVATION SUMMARY
- 9.0 RECOMMENDATIONS
- 10.0 LIMITATION

#### **APPENDICES**

Appendix A – Summary of Observation Scoring

Appendix B – Site Observation Records

Appendix C – Existing Maintenance Records

Appendix D – Existing Internal Audit Records

#### 1.0 INTRODUCTION

Hutchinson Consulting Engineers (Hutchinson) has been engaged by Far North District Council (FNDC) to undertake an independent random audit of the condition of the unsealed network throughout the district. The randomly distributed audit also looks at the performance of both Road Corridor Maintenance Contract (RCM) areas with respect to the contract specifications and each other.

The Far North District is divided into two individual contract areas and these areas are maintained by the following contractors,

Northern Contractor: Fulton Hogan Limited Southern Contractor: Broadspectrum NZ Limited

#### 2.0 OBJECTIVE AND SCOPE

#### 2.1 Objective

In accordance with the approved FNDC brief, the objective of the audit was to:

- Summarise the correlation between the approved specifications and physical works.
- Evaluate the overall condition of the unsealed network.
- Review the suitability of the contract specifications for the environment.
- Review the suitability of the intervention levels for the environment.
- Provide general recommendations.

#### 2.2 Scope

The scope of works performed to meet the above objective included:

- To review the current contract specifications
- To carry out a desktop study investigation
- To randomly select a representative number of roads (approximately 20) from within the district
- To visit the selected roads and complete site-specific observations, including photographic records.
- To undertake general compliance checks against contract specifications.
- To report on findings including general recommendations.

#### 2.3 Limitations

As a result of the audit being undertaken over a relatively small random sample of carriageways, general conformance of the entire network can only be inferred from the sample.

The roads selected were chosen based on a desktop study using the Far North District Council RAMM database and with very limited local knowledge of the district.

#### 3.0 SITE LOCATION

The Far North District encompasses an area of over 7300km² and extends from Cape Reinga in the north around 175km south to the east-west district boundary between Whangarei and Kaikohe. As a result of its size, the topography of the Far North varies significantly throughout the district from low-lying coastal flats to gently rolling pasture in much of the north and south and steep farming and forestry land through the interior and pockets of the west coast.

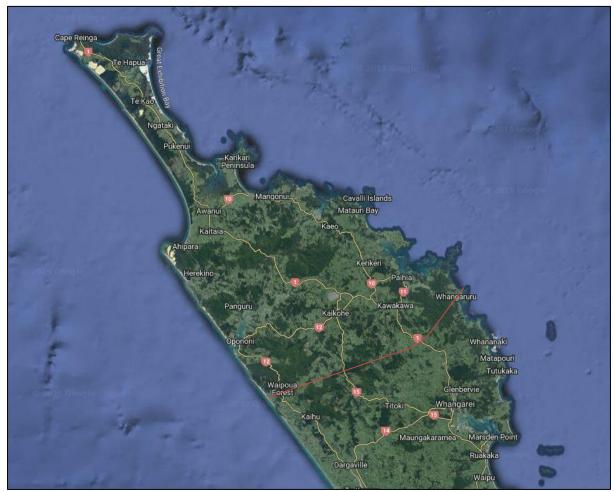


Figure 3.1 – Overall aerial view of the Far North District

#### 4.0 DESKTOP STUDY

The Far North District Council (FNDC) roading network comprises around 2530km of roadway and is divided into two individual maintenance contract areas shared by Broadspectrum NZ and Fulton Hogan. The ratio of sealed to unsealed roadway is approximately as follows,

Unsealed Roadway 1666km (66%)Sealed Roadway 864km (34%)

Hutchinson Consulting Engineers have been engaged by FNDC to carry out an external audit on the current unsealed roading network throughout the Far North District. The purpose of the audit is to provide a 'snapshot' look at the current condition and safety of the network to ascertain whether the current maintenance strategy is 'fit for purpose'.

The Far North District is spread over an approximate land area of around 7300km². Following discussions with representatives of FNDC, it was agreed that Hutchinson would randomly select approximately 20 roads from throughout the district and conduct a drive observation of each road selected.

In order to obtain a representative selection of roads, the Far North District was divided into 5 individual sectors as identified in Figure 4.1 below,



Figure 4.1 – Far North District divided into 5 sectors

Following this, a minimum of 4 roads was selected from each sector. The selection process was carried out using the FNDC RAMM asset management program. Using RAMM data, the unsealed network was sorted based on the most recent traffic count volume (ADT) and a minimum of four roads from each sector were selected with a range of both low volume and high volume traffic counts.

The selected roads were then plotted on a map of the Far North District to observe the range and spread across the district. In order to spread the roads demographically, several roads were removed and/or replaced to provide an even spread across the district.

Following the above process, 21 roads were finally selected evenly spread over the five sectors. The list of roads selected are as follows,

#### Sector 1

Road Name	Locality	Traffic Volume (VPD)	Hierarchy
Waimamaku Road	Waimamaku	75	Rural Access
Waiotemarama Gorge Road	Waitotemarama	150	Rural Access
Horeke Road	Horeke	200	Rural Access
Wharepunga Road	Otaua	39	Rural Access
Opara Road	Oue	50	Rural Low Volume

#### Sector 2

Road Name	Locality	Traffic Volume (VPD)	Hierarchy
Orakau Road	Tautoto	150	Rural Access
Tapuhi Road	Tapuhi	140	Rural Access
Pipiwai Road	Matawaia	94	Rural Access
Waikare Road	Jacks Bay	200	Secondary Collector

#### Sector 3

Road Name	Locality	Traffic Volume (VPD)	Hierarchy
Runaruna Road	Panguru	200	Secondary Collector
Diggers Valley Road	Takahue	113	Rural Access
Kauaepepe Road	Broadwood	28	Rural Access
Paponga Road	Broadwood	29	Rural Access

#### Sector 4

Road Name	Locality	Traffic Volume (VPD)	Hierarchy
Puketotara Road	Kerikeri	150	Rural Access
Martin Road	Kaeo	130	Rural Access
Kohumaru Road	Mangonui	100	Rural Access
Duncan Road	Kaingaroa	220	Secondary Collector

#### Sector 5

Road Name	Locality	Traffic Volume (VPD)	Hierarchy
Henderson Bay Road	Ngataki	200	Secondary Collector
Te Paki Stream Road	Te Paki	196	Secondary Collector
Te Hapua Road	Te Hapua	120	Rural Access
Rarawa Beach Road	Ngataki	60	Rural Access

Following confirmation with FNDC it was confirmed that the roads selected under Sector 1 and 2 are maintained by Broadspectrum and the roads selected under Sector 3 to 5 are maintained by Fulton Hogan, with the exception of Puketotara Road which falls within Broadspectrums maintenance contract area.

As part of our desktop study the following information relating to the 21 selected roads was provided to us by FNDC to investigate as part of our desktop study,

- Maintenance Records
- Recent Audits
- Recent Complaints

A brief summary for each of the three items investigated is on the following page.

#### Maintenance Records

Maintenance records were extracted from Road Asset and Maintenance Management (RAMM) Contractor based on all dispatches raised against each of the 21 roads since the commencement of the new contracts in 2018.

Using the information provided to us in an excel spreadsheet format, the type of maintenance was filtered to only include unsealed maintenance within the last 12 months. After reviewing the maintenance records for each road, it was evident that all 21 unsealed roads have received some form of maintenance in the last 12 months.

The maintenance work typically included the following items;

- Surface grading
- Pothole repairs
- Aggregate replenishment
- Water table clearing and shaping
- Culvert flushing
- Sump clearing
- Re-painting sight rails/barriers
- Cleaning road signs

#### Recent Audits

As part of the desktop study, we were provided with a summary of inspection audits carried by the contractor on each of the selected roads. The current maintenance contract specifies that the frequency of inspection is based on both the One Network Road Classification (ONRC) Road Classification and Risk Level as per the table below.

Most of the roads are considered "Low Volume" therefore a six-monthly inspection frequency is required. From the information provided to us, each road has either been previously inspected or programmed for inspection a minimum of 4 times in the last 12 months, therefore meeting this specification.

Frequency of Inspection	Fred	uenc	v of	Inst	pection
-------------------------	------	------	------	------	---------

ONRC Road Classification	Risk Level 12	Monthly <sup>3</sup>	Two Monthly	Six Monthly 4
	High	X		
Unsealed Primary and Secondary Collector	Medium		X	
Scoondary concessor	Low 5			X
	High	X		
Unsealed Access	Medium		Х	
	Low 5			X
	High	Х		
Unsealed Low Volume	Medium		X	
	Low 5			X

<sup>&</sup>lt;sup>1</sup> Default setting of Risks (until varied by the Engineer) shall be:

- All Unsealed Primary and Secondary Collector shall be High Risk
- All Unsealed Access shall be High Risk
- All Unsealed Low Volume shall be Medium Risk

#### Recent Complaints

The final part of our desktop study was to ascertain the extent and frequency of public complaints received within the last 12 months. A list of complaints was provided to us from FNDC specifying the type of request, date received and associated road name.

From the information provided to us, 176 complaints were received between January 2018 and July 2019 relating to the 21 roads selected. A majority of the complaints related to drainage issues, road surface defects and general unsealed roading issues.

We understand that the communication process between FNDC and the relevant maintenance contractor is generally working well when responding to customer requests. From our understanding, unsealed road maintenance is primarily driven by the customer request process as opposed to using a cyclic maintenance program. As a comparison, Auckland Transport uses a cyclic maintenance program as a way of encouraging preventative maintenance.

#### 5.0 NETWORK DESCRIPTION

The roading network in the Far North District area comprises a total of around 2500km of carriageway, of which around 1650km is unsealed. RAMM data indicates that the unsealed network is made up of 697 roads and accounts for around 66% of the total FNDC roading network.

The network is spread over an area of over 7300km² and extends from Cape Reinga in the north around 175km south to the east-west district boundary between Whangarei and Kaikohe. As a result of its size, the topography of the Far North varies significantly throughout the district from low-lying coastal flats to gently rolling pasture in much of the north and south and steep farming and forestry land through the interior and pockets of the west coast.

As a result of the variable topography, the nature of the unsealed network also varies to suit its environment, with the network comprising a mixture of flat, wide, well-shaped unsealed carriageways through the flats to steep, highly constrained unsealed tracks used for forestry and quarry access. While highly variable, the unsealed network can be summarised as generally comprising meandering carriageways cut through natural terrain over the path of least resistance, especially through the steeper interior.

The majority of unsealed carriageways throughout the region are typically local rural or rural secondary collector roads that service a mixture of lifestyle properties, farming, agriculture, forestry, quarrying and light-industrial activities. Typical carriageway formations appear to be unmodified insitu subgrades with varying thicknesses of basecourse aggregate, typically no more than 100-200mm of mixed aggregates including limestone, rounded conglomerate gravels and angular greywacke or basalt. The variable aggregate across the network is likely as a result of aggregate being locally sourced from whatever deposit is available.

Unsealed carriageways throughout the FNDC typically have Average Daily Traffic (ADT) counts of no more than around 300 vehicles per day (VPD), with the average ADT across the network being 93 VPD. However, 27 carriageways have counts greater than 300, 5 of which have counts of 1000 or more. Refer to the table below for a breakdown of traffic volumes on Far North District Councils unsealed network.

ADT	Number of Carriageways	Percentage of Total
0-50	495	71
51-100	145	21
101-200	45	6
201-300	4	0.6
301-400	3	0.5
401-500	2	0.4
500+	3	0.5
Total	697	100%

Figure 5.1 – Summary of FNDC Unsealed Network Traffic Volume

#### 6.0 GENERAL NETWORK DESCRIPTION

The purpose of our audit was to observe a representative selection of roads throughout the entire Far North District in order to ascertain the current safety and condition of the unsealed network.

21 unsealed roads were observed as part of our audit with various levels of service and traffic volume use. The sites observed were typically low volume rural access roads with several secondary collector roads included.

As part of our site-specific observations, several other unsealed roads were traversed to access the selected sites and as such observations were made on the general condition of the unsealed network.

Several features were observed during our drive over and these features are listed as follows.

- General Topography
- General Carriageway Condition
- Typical Road Shape and Alignment
- Drainage
- Shaded Areas
- Dust Suppression Areas

#### General Topography

Based on our site observations, the topography throughout the Far North District was generally comparable with the Auckland District where there is a mixture of flat relatively level low-lying areas surrounded by gentle to steeply undulating hillsides.

In some areas, excessive longitudinal gradients were observed where longitudinal constraints were evident. Likewise, in the low lying relatively level areas, drainage constraints were evident in the form of limited longitudinal fall, debris build-up, ponding water etc.

In general, each of the 5 sectors we observed exhibited a range of typical topography constraints, comparable to the Auckland District.

#### General Carriageway Condition

The carriageway condition for each of the 21 selected roads were observed as part of the site-specific observations however, in general the following notes were made on the overall condition of the carriageways we drove over.

- Aggregate used was typically of volcanic origin and ranged in size from 30mm up to 65mm
- Some roads comprised a blend of volcanic rock and calcareous limestone aggregate
- Roads located in steep topography generally exhibited exposed rock subgrade in isolated areas
- Severe potholing was typical on bridge approaches
- Bridge approaches were typically unsealed

#### Typical Road Shape and Alignment

The general road shape and alignment of the roads we drove over were typically representative of the site topography and accessibility. A majority of the roads appear to have been constructed with an alignment extending along the path of least resistance.

In areas of steep topography it was evident that a cut to fill earthworks operation was utilised to form the road into the hillside, typical of historic road formation throughout NZ.

Super elevation throughout the unsealed roading network was generally considered excessive with slope angles ranging up to around 20% recorded in some areas. From our observations it appeared that the carriageway geometrics generally correlated with the surrounding topography, available road width and horizontal curve radius.

Whilst crossfalls from 6% to 8% are encouraged, super elevation should be limited to around 10% unless restricted by longitudinal grades or other geometric constraints.

#### Drainage

In general, the drainage observed throughout the majority of the network was typically 'satisfactory'. In some areas the topography assisted roadside drainage and other areas the topography was the main factor for poor drainage. Steep sections of carriageway generally exhibited rock rip rap within the roadside swale drains to mitigate scouring and erosion.

Culverts were generally in good conditions with no obvious blockages identified during our drive over. We observed a number of concrete bound rock head wall structures at the inlet of culverts, typically in steep sections of road where higher flow rates are experienced. Culvert marker posts were also well maintained with associated culvert ID's clearly labelled and visible.

#### Shaded Areas

During our site observations several roads were identified as having heavily shaded areas as a result of adjacent vegetation blocking natural sun light. Having shaded areas has both advantages and disadvantages throughout seasons.

Shaded areas typically hold moisture within the pavement during hot and dry summer months which reduces dust nuisance and mitigates the potential for aggregate unravelling. However, during wet winter months this can be detrimental in that the pavement does not have a chance to dry out and the surface is constantly wet and slippery.

#### **Dust Suppression Areas**

During our site drive overs, a number of roads were identified with dust suppression trial sections. The dust suppression areas were typically located in sections where adjacent dwellings were located within close proximity to the carriageway.

The dust suppression treatment observed was a Gravel Lock product - Road Dust Control (RDC) which comprises a specifically formulated blend of both Magnesium Chloride and Proprietary Additives.



Figure 6.1 – Orakau Road with Gravel Lock RDC section installed

#### 8.0 SITE SPECIFIC OBSERVATIONS

Hutchinson Consulting Engineers have visited and observed 21 sites throughout the Far North District in order to provide an independent and random 'snapshot' condition assessment of the unsealed network for the FNDC.

The 21 carriageways were selected from RAMM to provide as best range possible of traffic volumes, road classification and carriageway characteristics while ensuring an adequate spread across the district. During the site assessments, the focus was on providing an overall 'snapshot' condition assessment of the carriageways and execution of any maintenance work in regards to Far North District Councils contract specifications and industry 'best practice'. Our observations generally included:

- Roadside Drainage
- Pavement Condition
- Crossfall and Superelevation
- Defects (Potholing, Corrugations, Drainage etc)

The three most important factors that dictate the condition of an unsealed carriageway are adequate drainage, correct carriageway shape and adequate aggregate thickness. Adequate drainage of the subgrade significantly improves subgrade strength and hence, rutting, potholing, corrugation and punching failures. Correct carriageway shape allows surface water to be more effectively shed into the roadside table drains, minimising standing water on the trafficked surface which often leads to potholing, basecourse contamination and other surface defects. Suitable aggregate thickness and quality significantly increase the load capacity and durability of the pavement

The 21 roads chosen for assessment were:

Waimamaku 1. Waimamaku Beach Road 2. Waiotemarama Gorge Road Waiotemarama 3. Horeke Road Horeke 4. Wharepunga Road Otaua 5. Opara Road Oue 6. Orakau Road Tautoto 7. Tapuhi Road Tapuhi 8. Pipiwai Road Matawaia 9. Waikare Road Jacks Bay 10. Runaruna Road Panguru 11. Diggers Valley Road Takahue 12. Kauaepepe Road Broadwood 13. Paponga Road Broadwood 14. Puketotara Road Kerikeri 15. Martin Road Kaeo 16. Kohumaru Road Mangonui 17. Duncan Road Kaingarua 18. Henderson Bay Road Ngataki 19. Te Paki Stream Road Te Paki 20. Te Hapua Road Te Hapua 21. Rarawa Beach Road Ngataki

The scoring system used during our site-specific drive over observation was based on the following performance indicators,

#### 1 – 4 Deficient

- Completed work is unsatisfactory Poor standard of work or specification.
- Remedial instruction required.

#### 5 **Satisfactory**

- Work is satisfactory Adequate standard of work or specification.
- This represents a minimum passing standard.

#### 6 Above Average

This represents a fair passing standard – Room for improvement.

#### 7 Good

- Standard of completed work is good – No issues with standard or specification.

#### 8 Very Good

- Completed work is commendable.
- Contractor is providing high quality work.

#### 9 Excellent

Completed work is of model standard or specification.

#### 10 **Exemplary**

Contractor has exceeded all expected standards of work and specification.

Based on the scoring system above we consider a poor, satisfactory and good condition road to have the following range of scores,

• Poor Score 1 to 4

• Satisfactory Score 5 to 7

• Good Score 8 to 10

We have summarised six carriageways, comprising of two representatives of 'poor', 'satisfactory' and 'good' within our reporting to give a sample with complete observation records included in Appendix B.

#### 7.1 Orakau Road, Tautoto - Poor Condition

Orakau Road is an unsealed rural access road servicing a small number of rural lifestyle properties and farms, as well as providing forestry access to the southern extent of the Rakautao and Tokawhero Forestry blocks. Latest FNDC traffic count records indicate Orakau Road has an Average Daily Traffic (ADT) count of around 76 vehicles per day (VPD), with a Heavy Commercial Vehicle count of 6%. The count was located at the eastern end of the carriageway at its intersection with Pokapu Road & Matawaia-Marokmaku Road respectively, however we anticipate that higher traffic numbers would be generated at its western extent.

This office visited and performed an assessment of Orakau Road on Wednesday 17<sup>th</sup> July 2019. The carriageway was observed to be in deficient to poor condition with no evidence of any recent maintenance.





Figure 7.1.1 – Ponding, Shear Failure & Potholing

Figure 7.1.2 – Significant Potholing at Bridge Approach

During the site observation it was noted that all three key elements of roadside drainage, carriageway shape and aggregate thickness were typically poor throughout Orakau Road. Roadside drainage was insufficient with no freeboard available to the pavement, resulting in softening of the subgrade and multiple areas of punching, rutting and shear failures. Crossfall was appropriate in sections, however corner super-elevation was typically inadequate compounding drainage issues and resulting in significant potholing on offside corner approaches. Pavement thickness also appeared to be limited, with numerous areas of exposed subgrade. Recent rain wetted the surface prior to our observation, however it was apparent from roadside deposits and a Gravel Lock trial site that dust is an issue.



Figure 7.1.3 – Gravel Lock Trial Site Potholing



Figure 7.1.4 - Inadequate Drainage

#### 7.2 Runaruna Road, Panguru – Poor Condition

Runaruna Road is an unsealed rural secondary collector road servicing a number of rural lifestyle properties and farms, as well as providing access to numerous forestry blocks and at least one active quarry. The most recent 2012 FNDC traffic count records indicate Runaruna Road has an Average Daily Traffic (ADT) count of around 142 vehicles per day (VPD), with a Heavy Commercial Vehicle count of 6%, however a 2011 count recorded 189 VPD with 10% HCV.

This office visited and performed an assessment of Runaruna Road on Thursday 18<sup>th</sup> July 2019. The carriageway was observed to be in deficient to poor condition with no evidence of any recent maintenance.





Figure 7.2.1 – Potholing & Logging Signage

Figure 7.2.2 - Potholing & Ponding on Inside Curve

Observation of the carriageway identified inadequate roadside drainage and sections of poor carriageway shape as the two primary factors contributing the most significantly to Runaruna Roads poor condition. Ponding, corrugating and severe scouring of downhill curves are all the result of inadequate stormwater control and lack of cut-outs to direct run-off away from the carriageway. Areas of ground water seepage were also noted as being uncontrolled.

Further to the poor drainage and lack of pavement freeboard, crossfall and corner superelevation were inappropriate in sections, leading to standing water, weakening pavement layers and ultimately resulting in significant corrugations and potholing on offside corner approaches.



Figure 7.2.3 – Severe Corrugation Causing Scouring



Figure 7.2.4 – Minor Corrugating

#### 7.3 Wharepunga Road, Oue – Satisfactory Condition

Wharepunga Road is an unsealed rural access road predominately servicing farming activities as well as providing access to local forestry blocks. The most recent 2017 FNDC traffic count records indicate Wharepunga Road has an Average Daily Traffic (ADT) count of around 39 vehicles per day (VPD), with a Heavy Commercial Vehicle count of 11%.

This office visited and performed an assessment of Wharepunga Road on Wednesday 17<sup>th</sup> July 2019. The carriageway was observed to be in satisfactory condition with no evidence of any recent maintenance.





Figure 7.3.1 – Typically Hard Packed Smooth Surface Figure 7.3.2 – Good Superelevation but Limited Drainage

As above Wharepunga Road was typically observed to be in satisfactory condition with the majority of the pavement being well graded with adequate pavement depth. Roadside drainage was present albeit too shallow to be effective, isolated areas of poor roadside drainage were identified particularly through lower lying portions of the carriageway, however this is the result of flat topography. Pavement thickness was typically sufficient, however there were isolated areas of exposed subgrade, which has punched through. Also noted were small isolated areas of potholing, primarily at the bridge approaches but also in areas identified above with poor drainage and a lack of freeboard.

A lack of freeboard results in the wetting of the underlying subgrade which directly affects pavement strength and durability and often leads to subgrade punching and rutting failures seen on site.



Figure 7.3.3 - Exposed Subgrade



Figure 7.3.4 - Ponding at Carriageway Edge

#### **7.4 Paponga Road, Broadwood** – Satisfactory Condition

Paponga Road is an unsealed rural access road predominately servicing farming activities as well as at least two large forestry blocks, but also provides access to several lifestyle properties. Traffic counts vary significantly depending on count location, however the most recent 2017 FNDC traffic count records record an Average Daily Traffic (ADT) count of around 29 vehicles per day (VPD) for the Broadwood Road end to 31 (VPD) heading towards Rakautapu Road, with a Heavy Commercial Vehicle count of 29% to 2% respectively. A 2012 traffic count recorded around 73 vehicles per day (VPD), with a Heavy Commercial Vehicle count of 6% at the West Coast Road end.

This office visited and performed an assessment of Paponga Road on Thursday 18<sup>th</sup> July 2019. The carriageway was observed to be in satisfactory condition with recent maintenance evident.





Figure 7.4.1 – Constrained Carriageway – Recent Metal

Figure 7.4.2 – Recent Overslip Repair

Assessment of the Paponga Road carriageway identified no significant widespread defects or fundamental issues aside from sections of the carriageway that are highly constrained by the steep topography of the area. Recent embankment work was noted, likely to clear loose overslip debris. Fresh attrition metal was also noted throughout the site, however had not been adequately compacted and was very loose. Pavement thickness was typically sufficient elsewhere through the site. Only one shear failure was noted, however this was likely as a result of poor drainage and weakening of the subgrade in an isolated section. No other significant potholing, corrugating or rutting was noted.



Figure 7.4.3 – Smooth Hardpacked Surface in Areas



Figure 7.4.4 - Shear Failure at Carriageway Edge

#### 7.5 Henderson Bay Road, Ngataki – Good Condition

Henderson Bay Road is an unsealed rural access road providing overland access to Henderson Bay Beach, a small number of lifestyle properties, the North Wind Backpacker Lodge and also a small number of adjacent farms. The latest FNDC traffic estimate from March 2016 indicates Henderson Bay Road has an Average Daily Traffic (ADT) count of around 200 vehicles per day (VPD), with a Heavy Commercial Vehicle count of 4%.

This office visited and performed an assessment of Henderson Bay Road on Thursday 18<sup>th</sup> July 2019. The carriageway was observed to be in typically good condition, with no evidence of recent maintenance and only one isolated subgrade failure.





Figure 7.5.1 - Wide, Smooth Carriageway Profile

Figure 7.5.2 – Appropriate Superelevation

Henderson Bay Road was generally observed to be in good condition with the only defect being an isolated shear failure located at the brow of a rise. At the location of the shear failure the carriageway has been cut through the ridgeline to ease the vertical curve and it is likely that the weaker underlying subsoils have been exposed in this location. Aside from the shear failure, roadside drainage, pavement thickness and carriageway profile were satisfactory throughout the site, with adequate water tables, no other notable surface failures and crossfall and super-elevation typically within specification.



Figure 7.5.3 – Defined Drainage & Crossfall



Figure 7.5.4 – Isolated Section of Exposed Subgrade

#### 7.6 Puketotara Road, Kerikeri – Good Condition

Puketotara Road is an unsealed rural access road that provides access to a number of small lifestyle properties and also farming and horticultural activities. The latest FNDC traffic count from 2009 indicates Puketotara Road has an Average Daily Traffic (ADT) count of around 126 vehicles per day (VPD), with a Heavy Commercial Vehicle count of 10%, however we envisage this number would have increased in the ten years to 2019.

This office visited and performed an assessment of Puketotara Road on Wednesday 17<sup>th</sup> July 2019. The carriageway was observed to be in good condition, with no evidence of recent maintenance.





Figure 7.6.1 - Wide, Smooth Carriageway Profile

Figure 7.6.2 – Appropriate Superelevation

Puketotara Road was generally observed to be in good condition, within only isolated ponding of surface water within section of the site with limited fall, aside from this ponding no other notable defects were noted. Carriageway profile was good, super-elevation and crossfalls were appropriate and generally appeared to direct stormwater away from the trafficable pavement. Pavement condition was good, albeit the running course was relatively loose and 'boney'. This is a direct result of using a rounded conglomerate aggregate which although provides a smoother ride, is typically very loose and reduces traction.



Figure 7.6.3 – Isolated Ponding Through Flats



Figure 7.6.4 – Loose, Rounded Aggregates

#### 8.0 OBSERVATION SUMMARY

This office carried out an assessment of 21 carriageways throughout the Far North District over three days from Wednesday the 17<sup>th</sup> to Friday the 19<sup>th</sup> of July respectively. During the course of our site observations we covered approximately 1100km of the FNDC network and the unsealed portion of the network was generally observed to be in satisfactory condition, with the majority of carriageways assessed as fit for purpose. The three obvious mechanisms of pavement failure throughout the unsealed network can be summarised as:

- Inadequate drainage
- Incorrect crossfall
- Insufficient pavement thickness

#### Inadequate Drainage

Culverts and roadside drainage were generally observed to be adequate throughout the majority of network, however there were instances where poor drainage, particularly in already heavily constrained areas was obviously leading to pavement failures. In some instances these issues are causing significant downstream erosion and instability within shoulders and embankments. General comments for areas of poor condition are as below:

- Roadside drains are generally formed, however typically too shallow to be effective
- Swale cut-outs are often ineffective as a result of frequency, swale grade or depth
- Culverts obstructed by debris and aggregates, particularly on steeper forestry roads
- Scouring as a result of unprotected swales or short outlets, particularly in steep areas



Figure 8.1 - Waikare Road Inlet Blocked with Debris



Figure 8.2 - Waimamaku Beach Road Ponding



Figure 8.3 – Diggers Valley Scouring (No Formed Swale)



Figure 8.4 – Martin Road Swallow Ineffective Cut-outs

#### Incorrect Crossfall

Carriageway shape including crossfall and super elevation was generally observed to be adequate throughout the majority of network, however there were several areas where the carriageway lacked cross fall and as a result potholing and corrugations were evident. Orakau Road in particular was severely potholed as a result of poor carriageway shape, no crossfall, and heavy traffic loading from the logging trucks coming in and out of the Rakautao Forest.

An unsealed carriageway should be shaped using the following guidelines,

- Pavement needs to be graded to form a 'crown' in the centre of the road to allow surface water to drain away efficiently.
- Crossfall should be no less than 4% and no greater than 6% on straight sections of road.
- Where two unsealed carriageways intersect the crown should be gradually reduced over around 20m, so at the intersection there is no apparent crown.
- Super elevation should not exceed 10% unless restricted by longitudinal grades or other geometric constraints



Figure 8.5 - Orakau Road with minimal crossfall



Figure 8.6 – Tapuhi Road with limited crossfall



Figure 8.7 – Horeke Road with minimal crossfall



Figure 8.8 – Runaruna Road with limited super elevation

#### Minimum Pavement Thickness

Adequate pavement thickness is key to ensuring the longevity and durability of an unsealed pavement, especially over the plastic clay subgrades beneath much of the Far North Districts network. During our site observations it was noted that small isolated portions of much of the network had areas of exposed subgrade and/or were showing shear failures as a result of inadequate pavement thickness.

Based on a 90<sup>th</sup> percentile traffic volume for the FNDC of 100 vehicles per day, the AustRoads "Design Chart for Granular Pavements" specifies the minimum base material thickness for a three year design life is around 200mm to prevent shear failure and rutting of the subgrade.

Obviously for more highly trafficked carriageways such as Matai Bay Road there will require more robust pavements to ensure similar longevity. It is also worth noting that running course or wearing course aggregate will constantly be lost from the carriageway as it is trafficked and will require to be replaced with attrition metal by the RCM contractor as required. More extensive replenishment metalling should be undertaken bi-annually at minimum.



Figure 8.9 – Waitemarama Gorge Road Shear Failure



Figure 8.10 – Diggers Valley Road, Exposed Subgrade



Figure 8.11 – Waikare Road Exposed Subgrade



Figure 8.12 – Tapuhi Road Contaminated Running Course

#### 9.0 RECOMMENDATIONS

We have completed an independent assessment of the unsealed road network at the request of Far North District Council to audit of the condition of the unsealed network throughout the district and the performance of both road corridor maintenance contract (RCM) areas with respect to the contract specifications and each other.

We were also asked to evaluate the quality of the completed works and review the suitability of maintenance methodology. We generally found the maintenance works to have been completed in accordance with the contract specification, however the methodology could be improved.

Our general recommendations to improve the network performance are as follows:

- Install culvert flumes where notable scour is occurring on outlets
- Construct cut off drains at the top of significant cut batters to mitigate erosion of the embankment
- Increase the frequency of water table cut-outs to direct run-off out of the water table and mitigate potential for scouring and concentrated run-off
- Install water table scour protection i.e. placement of rock rip-rap, particularly on steep sections of carriageway
- Implement a cyclic water tabling maintenance programme to ensure drainage is sufficiently maintained at all times
- Re-shape the carriageway to create sufficient crossfall and super elevation
- Supply, place and compact replenishment aggregate in areas where subgrade is exposed and/or high traffic volumes are present

During our site observations, the unsealed roads we visited generally exhibited adequate crossfall and carriageway shape however, in some areas where the carriageway lacked crossfall (particularly on the exit of horizontal curves) potholing was an obvious issue.

To re-shape the road including the underlying subgrade formation would be a costly exercise and is typically carried out as part of a renewal programme and/or seal extension work. However, if the maintenance contractors gradually started to re-shape the carriageway as part of the surface grading maintenance, even in 20mm increments, over 10 grading cycles the road would then reflect a 6% crossfall which would help to prevent potholing.

If the entire unsealed roading network was consistently shaped having crossfalls within the 6% to 8% range and super elevation limited to around 10%, provided there are no longitudinal grades or other geometric constraints, this would have a significant beneficial effect on the maintenance demand of the network.

A competent and durable unsealed pavement requiring minimal maintenance is constructed on stable ground by providing

- Adequate roadside drainage
- Sufficient transverse cross fall (6% to 8%)
- Adequate and appropriate basecourse\*

\*'The Main Highways Board (1938) Book of Instructions and Standard Specifications' Although 'outdated' the most appropriate basecourse specification for unsealed road maintenance is the Main Highways Board (MHB) 1938 specification.

The MHB in New Zealand was created by the Main Highways Act, passed in 1922 and came into effect in 1924.

The MHB was replaced by the National Roads Board (NRB) in 1954, Transit New Zealand in 1989 then more recently New Zealand Transport Agency (NZTA) in 2008.

The MHB (1938) Book of Instructions and Standard Specifications is familiar to few and omitted from modern specifications. It is however as relevant today as it was when it was originally developed when the majority of roads through New Zealand were unsealed.

The MHB (1938) Specification appropriately details the aggregate types and maintenance procedures required for an unsealed roading network.

The modern practitioner should familiarise themselves with this MHB (1938) document as it defines appropriate practical means of competently managing replenishment materials for unsealed pavements.

#### 10.0 **LIMITATION**

This report has been prepared solely for the benefit of Far North District Council as our client with respect to the brief. The reliance by other parties on the information or opinions contained in the report shall, without prior review and agreement in writing be at such parties sole risk.

Should you wish to discuss any aspects of the above information, please contact this office.

We trust this meets with your approval.

Yours faithfully,

IAN HUTCHINSON CONSULTANTS LTD

Prepared by J. Charlwood

SENIOR ROADING

**ENGINEER** 

Prepared by

N. Douglas

SENIOR ROADING

**ENGINEER** 

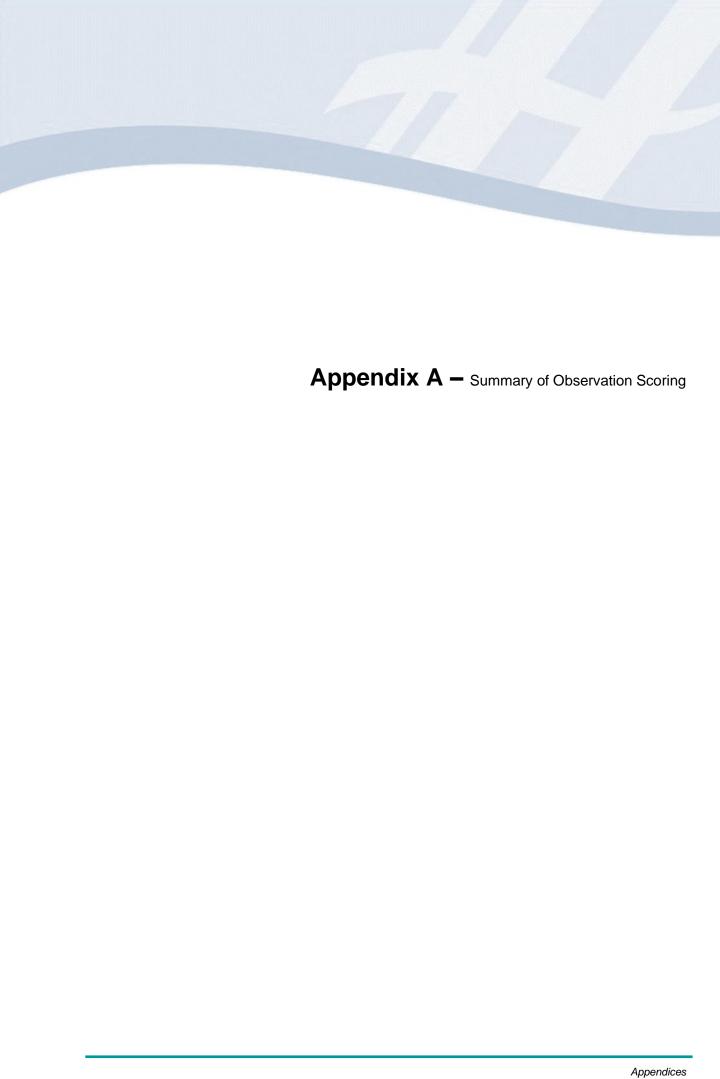
Approved by

TEAM LEADER - ¢IVIL

Reviewed by

I. Hutchinson

PRINCIPAL ENGINEER



#### **Summary of Individual Road Observation Scores** Signs/Street Sector Number and Road Name Locality **Traffic Volume** Existing Surface Drainage Score Vegetation Overall Score (VPD) Carrigeway **Defects Score** Furniture Score Average Score Score Sector #1 5.5 (avg) Waimamaku Beach Road Waimamaku 75 6.0 4.0 2.0 6.0 6.0 5.0 Waiotoemarama Gorge Road Waitoemarama 130 6.0 4.0 6.5 8.0 6.0 6.0 4.0 Horeke Road Horeke 200 5.0 3.0 5.0 5.0 4.5 Wharepunga Road Otaua 39 6.0 5.5 5.0 5.0 5.0 5.5 4.0 Opara Road Oue 50 6.0 5.0 6.0 N/A 5.5 Sector #2 5.0 (avg) Orakau Road Tautoto 150 4.0 1.0 2.0 7.0 6.0 4.0 Tapuhi Road Hekerenui 140 7.0 5.0 5.0 5.0 5.0 5.5 Pipiwai Road Matawaia 94 7.0 6.0 5.0 6.0 5.0 6.0 Waikara Road Jacks Bay 200 4.0 4.0 4.0 N/A N/A 4.0 Sector #3 5.5 (avg) Runaruna Road Panguru 200 4.5 4.0 5.0 6.0 4.0 5.0 Diggers Valley Road Takahue 113 6.0 6.0 4.0 6.0 6.0 5.5 Broadwood Kauaepepe Road 28 5.0 4.0 4.0 5.0 5.0 4.5 29 7.0 6.5 Paponga Road Broadwood 6.0 6.5 6.5 7.0 Sector #4 6.0 (avg) Puketotara Road Kerikeri 150 8.0 8.0 8.0 N/A N/A 8.0 Martin Road Kaeo 130 7.5 7.5 5.0 6.0 5.0 6.0 Kohumaru Road Mangonui 100 6.0 6.0 4.0 6.0 6.0 5.5 Duncan Road 228 5.0 4.0 4.0 5.0 5.0 4.5 Kaingaroa Sector #5 5.5 (avg) Henderson Bay Road Ngataki 200 7.0 5.0 5.5 N/A 7.0 6.0 Te Paki Stream Road Te Paki 196 5.0 4.0 4.0 N/A N/A 4.5 6.0 3.5 6.0 N/A 6.0 Te Hapua Road Te Hapua 120 5.5 60 7.0 7.0 6.0 N/A 6.5 Rarawa Beach Road Ngataki 6.0

# **Observation Scoring System**

The scoring system used during our site-specific drive over observation was based on the following performance indicators,

### 1-4 **Deficient**

- Completed work is unsatisfactory Poor standard of work or specification.
- Remedial instruction required.

### 5 **Satisfactory**

- Work is satisfactory Adequate standard of work or specification.
- This represents a minimum passing standard.

#### 6 Above Average

- This represents a fair passing standard – Room for improvement.

#### 7 Good

 Standard of completed work is good – No issues with standard or specification.

#### 8 Very Good

- Completed work is commendable.
- Contractor is providing high quality work.

#### 9 Excellent

- Completed work is of model standard or specification.

#### 10 **Exemplary**

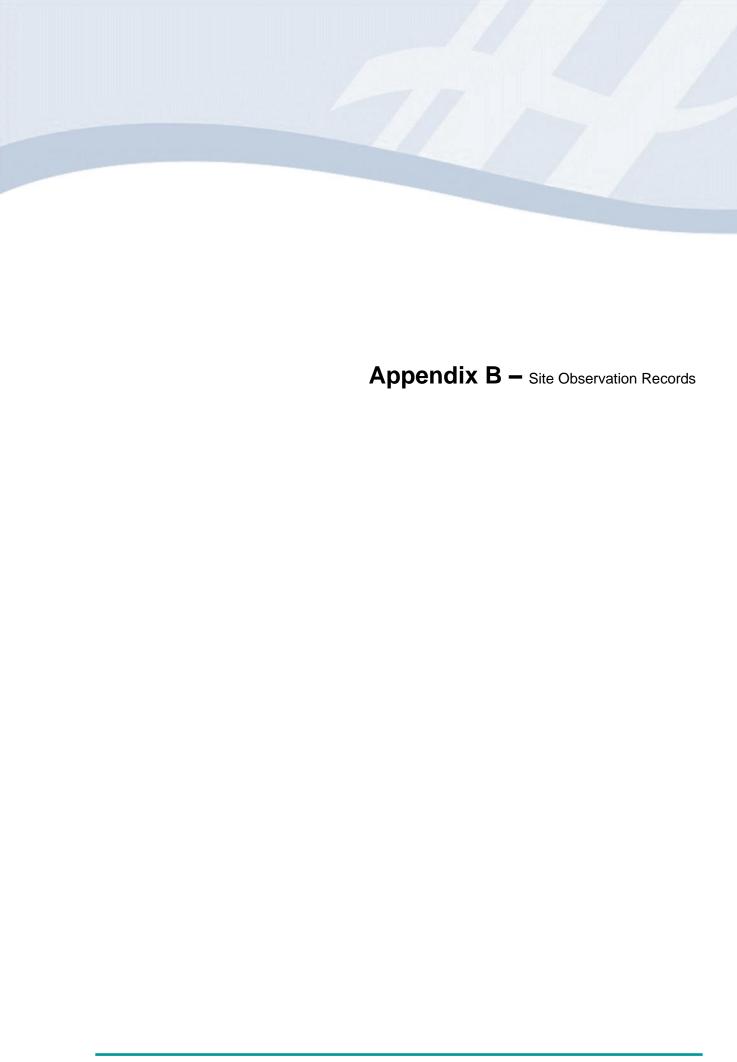
- Contractor has exceeded all expected standards of work and specification.

Based on the scoring system above we consider a poor, satisfactory and good condition road to have the following range of scores,

• Poor Score 1 to 4

• Satisfactory Score 5 to 7

• Good Score 8 to 10







#### **UNSEALED ROAD MAINTENANCE OBSERVATION RECORD**

DATE OF OBSERVATION:	17/07/2019	CONTRACT AREA:	Fulton Hogan/Broadspectrum
ROAD NAME:	Waimamaku Beach Road	LOCALITY:	Waimamaku
TRAFFIC VOLUME:	75	ROAD CLASSIFICATION:	Rural Access
LAST MAINTAINED:	June 2019	WEATHER CONDITIONS:	Raining

	COMMENTS/OBSERVATIONS		
EXISTING CARRIAGEWAY		Score	6.0
Existing Width (m)			
	4.5 -5.5M		
Crossfall (%)	Variables to may 60/ everall good shape		
Longitudinal Grade (%)	Varies up to max 6%, overall good shape		
Eorigidalinai Grade (70)	Mostly flat, isolated section 13%		
Superelevation (%)			
	Up		
Shoulder Grade (%)	<b>a</b>		
Aggregate Condition	OK		
Aggregate Condition	River rock, some large cobbles		
General Comments	Tivor rook, como large cossico		
			1
SURFACE DEFECTS		Score	4.0
Potholing (density)			
	Severely potholed		
Corrugations (depth)			
Weathered aggregate	N/A		
Weathered aggregate	Yes		
Exposed Subgrade	•••		
	N/A		
General Comments			
DRAINAGE		Score	2.0
Swale Depth (S/G freeboard)	Vance and recipied doubt manding contain		
Side Slopes (%)	Very poor, minimal depth, ponding water		
Side Siopes (70)	2:1 - 1:1		
Swale Cut-outs			
	N/A		
Longitudinal Grade (≥1%)			
Obstructions	Topography doesn't allow much fall		
Obstructions	N/A		
L L	1 1/71		

Scouring			
Existing Culverts	Scouring in steep sections		
	Generally in OK condition, some outlet scouring		
Silt Runoff	N/A		
General Comments	IV/A		
	Constrained drainage due to topography		
VEGETATION	Sc	ore	6.0
Proximity to carriageway			
Overhanging Branches?	Close in areas		
Overnanging Branches:	Minor overhang in isolated areas		
General Comments			
			<u> </u>
SIGNS/STREET FURNITURE	Sc	ore	6.0
Condition of signs			
Edge marker posts	Good		
Lago markor pooto	Culvert marker posts in place, ID numbers		
Guardrails/Sight rails	N/A		
Line marking	N/A		
	N/A		
General Comments			
	No edge markers		
DECOMMENDATIONS	<u> </u>		
RECOMMENDATIONS			





## **UNSEALED ROAD MAINTENANCE OBSERVATION RECORD**

DATE OF OBSERVATION:	17/07/2019	CONTRACT AREA:	Fulton Hogan/Broadspectrum
ROAD NAME:	Waiotemarama Gorge Road	LOCALITY:	Waiotemarama
TRAFFIC VOLUME:	150	ROAD CLASSIFICATION:	Rural Access
LAST MAINTAINED:	June 2019	WEATHER CONDITIONS:	Fine/ Drizzle

	COMMENTS/OBSERVATIONS				
EXISTING CARRIAGEWAY	Score	6.0			
Existing Width (m)	4-5M				
Crossfall (%)	Varies up to approx. 6%				
Longitudinal Grade (%)	Varies - undulating to steep (5-20%)				
Superelevation (%)	Varies - some super steep around 15-20%				
Shoulder Grade (%)	N/A				
Aggregate Condition	Limited in depth, see below				
General Comments	Zinikod in dopui, dod zolow				
	Carriageway is highly constrained by steep topography - pretty good for terrain				
SURFACE DEFECTS	Score	4.0			
Potholing (density)					
	Minor potholing, A result of drainage				
Corrugations (depth)	Isolated to sharp steeper sections				
Weathered aggregate	N/A				
Exposed Subgrade	Prevalent in some areas				
General Comments	i revalent in some areas				
	Significant subgrade failures throughout (we witnessed a vehicle loose control in one ar	ea)			
DRAINAGE	Score	6.5			
Swale Depth (S/G freeboard)	Adequate where required (naturally draining)				
Side Slopes (%)	1:1				
Swale Cut-outs	Natural (gorge feature)				
Longitudinal Grade (≥1%)	Refer above (steep)				
Obstructions	N/A				

Scouring	Minor				
Existing Culverts					
Silt Runoff	Adequate				
General Comments	N/A				
<u>General Comments</u>					
	Defines drainage limited, but present where required, assisted	by patural tor	rain		
\(\( \)	Defines drainage limited, but present where required, assisted				
VEGETATION		Score	8.0		
Proximity to carriageway	Name has been assettly along				
Overhanging Branches?	Near by but generally clear				
	N/A				
General Comments					
	Thick vege through gorge, but generally good				
	Tillok vogo allioagn golgo, bat gonorally good				
SIGNS/STREET FURNITURE		Score	6.0		
Condition of signs			Ļ		
	Signs are poor				
Edge marker posts	N/A - need them				
Guardrails/Sight rails	N/A - need them				
	Recently painted with reflectors				
Line marking	N/A				
General Comments	19//				
	0.1				
	Culvert markers good				
RECOMMENDATIONS					





DATE OF OBSERVATION:	19/07/2019	CONTRACT AREA:	Broadspectrum
ROAD NAME:	Horeke Road	LOCALITY:	Horeke
TRAFFIC VOLUME:	200	ROAD CLASSIFICATION:	Rural Access
LAST MAINTAINED:	May 2019	WEATHER CONDITIONS:	Raining

	COMMENTS/OBSERVATIONS	
EXISTING CARRIAGEWAY	Score	5.0
Existing Width (m)		
	5.0 - 5.5M	
Crossfall (%)		
Law with adding a Computer (OC)	Good in most areas ≈ 4-6%	
Longitudinal Grade (%)	Mostly loyal, some miner undulation	
Superelevation (%)	Mostly level, some minor undulation	
(/3)	Generally good, up to 15% in some spots	
Shoulder Grade (%)		
	N/A	
Aggregate Condition		
General Comments	Good	
General Comments		
SURFACE DEFECTS	Score	3.0
Potholing (density)		
	Sections of extensive potholing	
Corrugations (depth)	Henvilly corrugated in many acctions	
Weathered aggregate	Heavily corrugated in many sections	
Troumsion aggregate	N/A	
Exposed Subgrade		
	Evident in serveral areas	
General Comments		
DRAINAGE	Score	4.0
Swale Depth (S/G freeboard)		
(2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.	Generally OK, very limited in some areas	
Side Slopes (%)	· · ·	
	Up to 1:2	
Swale Cut-outs		
Longitudinal Grade (≥1%)	Yes	
Longitudinal Grade (21%)	Limited in some spots, free standing water in channel	
Obstructions	Emiliod in come apolo, nee dianang water in chainer	
	Minor vegetation debris, some household rubbish at culvert inlet	

Scouring	Minor in some areas		
Existing Culverts			
Silt Runoff	Generally OK, concrete headwalls		
General Comments	N/A		
<u>General Comments</u>			
\(\(\tau_{\tau}\)			
VEGETATION Proximity to carriageway		Score	5.0
	Dense vegetation in NE end		
Overhanging Branches?	N/A		
General Comments			
SIGNS/STREET FURNITURE	1	Score	5.0
Condition of signs			
Edge marker posts	Generally all OK		
	As above		
Guardrails/Sight rails			
Line marking			
General Comments			
RECOMMENDATIONS			





DATE OF OBSERVATION:	17/07/2019	CONTRACT AREA:	Fulton Hogan/Broadspectrum
ROAD NAME:	Wharepunga Road	LOCALITY:	Otaua
TRAFFIC VOLUME:	39	ROAD CLASSIFICATION:	Rural Access
LAST MAINTAINED:	May 2019	WEATHER CONDITIONS:	Fine

	1	
Scor	е	6.0
5 5 5M	•	
3-3.3IVI		
Typically good, varies up to 6%		
Typically flat, 0-5% up to 10%		
·		
N/A		
Pretty good, decent blue metal		
Generally good, isolated improvements but areas of boney aggregate	present	
	•	
Scor	е	5.5
	ļ.	
Very minimal, couple isolated potholes		
Isolated minor to moderate		
See above		
Isolated sections (two noted)		
Potholes on bridge approaches		
Scor	e	5.0
Varies poor along flat, drainage constrained		
As above		
As above, minimal grade		
As above		
Vehicle culvert crossing missing		
	5-5.5M  Typically good, varies up to 6%  Typically flat, 0-5% up to 10%  Up to 15% - 20%  N/A  Pretty good, decent blue metal  Generally good, isolated improvements but areas of boney aggregate  Scor  Very minimal, couple isolated potholes  Isolated minor to moderate  See above  Isolated sections (two noted)  Potholes on bridge approaches  Scor  Varies poor along flat, drainage constrained  As above  As above  As above	Score  5-5.5M  Typically good, varies up to 6%  Typically flat, 0-5% up to 10%  Up to 15% - 20%  N/A  Pretty good, decent blue metal  Generally good, isolated improvements but areas of boney aggregate present  Score  Very minimal, couple isolated potholes  Isolated minor to moderate  See above  Isolated sections (two noted)  Potholes on bridge approaches  Score  Varies poor along flat, drainage constrained  As above  As above  As above  As above

Vos. in isolated steen sections		
As above		
N/A		
Pretty good for topography		
	Score	5.0
N/A		'
TWA G COOPIE OF BRAHOLICO HAINGING CAL		
Pretty good		
!	Score	5.0
ОК		!
Good		
Bridge quardrails very dirty		
N/A		
	Pretty good for topography  N/A  N/A, couple of branches hanging out  Pretty good  OK	As above  N/A  Pretty good for topography  Score  N/A  N/A, couple of branches hanging out  Pretty good  Score  OK  Good  Bridge guardrails very dirty





DATE OF OBSERVATION:	19/07/2019	CONTRACT AREA:	Broadspectrum
ROAD NAME:	Opara Road	LOCALITY:	Oue
TRAFFIC VOLUME:	50	ROAD CLASSIFICATION:	Rural Low Volume
LAST MAINTAINED:	June 2019	WEATHER CONDITIONS:	Fine

	COMMENTS/OBSERVATIONS		
EXISTING CARRIAGEWAY		Score	6.0
Existing Width (m)			
	4-5.5M		
Crossfall (%)	OK 3-6% approximately		
Longitudinal Grade (%)	Ort 5-078 approximatery		
	15-20%		
Superelevation (%)			
Shoulder Grade (%)	Quite steep in places		
Griddlider Grade (78)	N/A due to limited width, topo constraints		
Aggregate Condition			
General Comments			
<u>Sonorar commente</u>			
	Extended along a steep ridgeline		
SURFACE DEFECTS		Score	4.0
Potholing (density)			
	Yes, not too bad		
Corrugations (depth)			
Weathered aggregate	No		
Troumorou aggregate	In places		
Exposed Subgrade	·		
	Yes, in a few spots		
General Comments			
	Some over slips evident with embarkment		
			<u> </u>
DRAINAGE		Score	5.0
Swale Depth (S/G freeboard)			
	Generally OK		
Side Slopes (%)	1:1		
Swale Cut-outs	1.1		
	Yes		
Longitudinal Grade (≥1%)			
Obstructions	Reflects carriageway grade		
ODSII UGIIOTIS	No		
	110		

Minor	
N/A	
Score	6.0
In places	
Dranon hanging out in isolated area	
Looks as though maintenance contractor has responded and removed underway	
Score	N/A
·	
	In places  Branch hanging out in isolated area  Looks as though maintenance contractor has responded and removed underway





DATE OF OBSERVATION:	17/07/2019	CONTRACT AREA:	Broadspectrum
ROAD NAME:	Orakau Road	LOCALITY:	Tautoto
TRAFFIC VOLUME:	150	ROAD CLASSIFICATION:	Rural Access
LAST MAINTAINED:	July 2019	WEATHER CONDITIONS:	Fine

	COMMENTS/OBSERVATIONS	
EXISTING CARRIAGEWAY	Score	4.0
Existing Width (m)		1
	5.5 - 6.5M	
Crossfall (%)	4-6%	
Longitudinal Grade (%)		
	Relatively level	
Superelevation (%)		
Observation One de (OC)	Nil - caused potholes on corners - Bad!	
Shoulder Grade (%)	Not defined	
Aggregate Condition	Not defined	
riggregate commun.	Highly weathered	
General Comments	3 /	
	Heavily trafficked likely as a result of adjacent forestry operation	
SURFACE DEFECTS	Score	1.0
Potholing (density)		
	Very frequent	
Corrugations (depth)	Occasional	
Weathered aggregate	Occasional	
Troumston agg. ogato		
Exposed Subgrade		
	Frequent	
General Comments		
DRAINAGE	Score	2.0
Swale Depth (S/G freeboard)		
Gwale Deptil (G/G freeboard)	Inadequate	
Side Slopes (%)	auo quaio	
	Up to 1:1	
Swale Cut-outs		
	N/A	
Longitudinal Grade (≥1%)	Relatively level	
Obstructions	relatively level	
10.20.30.00.00	Yes	

Scouring	In places		
Existing Culverts			
Silt Runoff	Poor to good		
General Comments	N/A		
<u>General Comments</u>			
VEGETATION		Score	7.0
Proximity to carriageway			
Overhanging Branches?	Close in some areas		
General Comments	N/A		
<u>General Comments</u>			
SIGNS/STREET FURNITURE		Score	6.0
Condition of signs	Good		
Edge marker posts	OK		
Guardrails/Sight rails			
Line marking	N/A		
General Comments	N/A		
DECOMMENDATIONS			
RECOMMENDATIONS			





DATE OF OBSERVATION:	19/07/2019	CONTRACT AREA:	Broadspectrum
ROAD NAME:	Tapuhi Road	LOCALITY:	Hukerenui
TRAFFIC VOLUME:	140	ROAD CLASSIFICATION:	Rural Access
LAST MAINTAINED:	July 2019	WEATHER CONDITIONS:	Drizzly

	COMMENTS/OBSERVATIONS	
EXISTING CARRIAGEWAY	Score	7.0
Existing Width (m)		
	5.5-6.5M	
Crossfall (%)	Typically 4 C0/	
Longitudinal Grade (%)	Typically 4-6%	
- I - I - I - I - I - I - I - I - I - I	Relatively level, max ≈5%	
Superelevation (%)		
	Good, typically10-15%	
Shoulder Grade (%)	NI/A	
Aggregate Condition	N/A	
riggregate condition	Good	
General Comments		
0.000.000.0000.0000		
SURFACE DEFECTS	Score	5.0
Potholing (density)		
Corresponding (donth)	Isolated areas of heavy potholing	
Corrugations (depth)	Minor in some sharper corners	
Weathered aggregate	Willion in Some Sharper Comers	
	Good condition	
Exposed Subgrade		
Compared Compared to	N/A	
General Comments		
		•
DRAINAGE	Score	5.0
Swale Depth (S/G freeboard)		
, , ,	Consistently good throughout, minor area limited	
Side Slopes (%)		
	Up to 1:2	
Swale Cut-outs	Yes	
Longitudinal Grade (≥1%)	165	
J (=1,73)	Sufficient, minor isolated area of ponding on corners	
Obstructions		
	N/A	

Scouring	Not identified		
Existing Culverts	Generally in good condition		
Silt Runoff			
General Comments	N/A		
VEGETATION		Score	5.0
Proximity to carriageway	Some dense areas		
Overhanging Branches?	N/A		
General Comments	IV/A		
SIGNS/STREET FURNITURE	•	Score	5.0
Condition of signs	Typically in good, clean condition		•
Edge marker posts			
Guardrails/Sight rails	As above		
Line marking			
General Comments			
RECOMMENDATIONS	<u> </u>		





DATE OF OBSERVATION:	19/07/2019	CONTRACT AREA:	Broadspectrum
ROAD NAME:	Pipiwai Road	LOCALITY:	Matawaia
TRAFFIC VOLUME:	94	ROAD CLASSIFICATION:	Rural Access
LAST MAINTAINED:	July 2019	WEATHER CONDITIONS:	Fine

	COMMENTS/OBSERVATIONS	
EXISTING CARRIAGEWAY	Score	7.0
Existing Width (m)	Varies 5.5 - 6.0 m typical	
Crossfall (%)	Good - 4+%	
Longitudinal Grade (%)	Varies , typically gently undulating	
Superelevation (%)	Good - 4+%	
Shoulder Grade (%)	N/A (Only present in sections)	
Aggregate Condition	Good, sections of fresh aggregate	
General Comments		
	Carriageway typically in good conditions. Fresh metal noted (GAP30)	
SURFACE DEFECTS	Score	6.0
Potholing (density)	Infrequent, typically good given traffic volume	
Corrugations (depth)	N/A - Nothing significant	
Weathered aggregate	N/A	
Exposed Subgrade	N/A	
General Comments	1471	
	Given traffic loading from the logging surface defects are infrequent and minor	
DRAINAGE	Score	5.0
Swale Depth (S/G freeboard)	Varies, typically formed but shallow	
Side Slopes (%)	Varies	
Swale Cut-outs	OK	
Longitudinal Grade (≥1%)	OK	
Obstructions	N/A - none noted	

Scouring	None significant	
Existing Culverts	Those observed OK	
Silt Runoff		
General Comments	Areas of fresh watertabling and drainage work (Possibly associated with wide	ening)
VEGETATION	Score	6.0
Proximity to carriageway	OK	
Overhanging Branches?	OK	
<u>General Comments</u>		
SIGNS/STREET FURNITURE	Score	5.0
Condition of signs	OK	
Edge marker posts	OK	
Guardrails/Sight rails	ОК	
Line marking	N/A	
General Comments		
RECOMMENDATIONS		





DATE OF OBSERVATION:	19/07/2019	CONTRACT AREA:	Broadspectrum
ROAD NAME:	Waikare Road	LOCALITY:	Jacks Bay
TRAFFIC VOLUME:	200	ROAD CLASSIFICATION:	Rural Sec. Collector
LAST MAINTAINED:	Jun-19	WEATHER CONDITIONS:	Drizzle

	COMMENTS/OBSERVATIONS	
EXISTING CARRIAGEWAY	Score	4.0
Existing Width (m)	Varies 4.0 - 6.0 m	I
Crossfall (%)	Valles 4.0 - 0.0 III	
Longitudinal Grade (%)	OK in places, however flat in areas	
Longitudinal Grade (76)	Undulating to flat	
Superelevation (%)	Up to 8% (poor in areas - leading to corrugation)	
Shoulder Grade (%)	N/A	
Aggregate Condition		
General Comments	Poor - highly weathered in places	
	Recent Grade - Tyre and blade marks noted	
	Recent Grade - Tyre and blade marks noted	
SURFACE DEFECTS	Score	4.0
Potholing (density)	Vec	ļ
Corrugations (depth)	Yes	
Weathered aggregate	Yes - extensive throughout entire site	
Weathered aggregate	Yes	
Exposed Subgrade	Yes - throughout - slippery!	
General Comments	. со поступни опррогу.	
	Surface in poor condition, weather and contaminated running course	
DRAINAGE	Score	4.0
Swale Depth (S/G freeboard)		I
Side Slopes (%)	Generally poor	
, , ,	1:1	
Swale Cut-outs	Infrequent, swales tend to run out	
Longitudinal Grade (≥1%)	OK	
Obstructions	UN.	
	Debris noted in inlets	

Voc. particularly an incide our co		
Two blocked		
N/A		
Topography is steel and difficult resulting in narrow carriageway in sections but shallow	and limited draina	ge. Present
	Score	N/A
N/A		
N/A		
	Score	N/A
OK		•
	Topography is steel and difficult resulting in narrow carriageway	Two blocked  N/A  Topography is steel and difficult resulting in narrow carriageway and limited drainage in sections but shallow  Score  N/A  N/A  Score  OK  OK  OK





DATE OF OBSERVATION:	18/07/2019	CONTRACT AREA:	Fulton Hogan
ROAD NAME:	Runaruna Road	LOCALITY:	Panguru
TRAFFIC VOLUME:	200	ROAD CLASSIFICATION:	Rural Secondary Collector
LAST MAINTAINED:	June 2019	WEATHER CONDITIONS:	Fine - Dusk

	COMMENTS/OBSERVATIONS	
EXISTING CARRIAGEWAY	Score	4.5
Existing Width (m)	4.5 - 6.0M	
Crossfall (%)	4.5 - 0.UW	
	Generally OK at 4-6%, some flat areas	
Longitudinal Grade (%)	Up to approximately 15 -20% max	
Superelevation (%)	Generally OK	
Shoulder Grade (%)	N/A	
Aggregate Condition		
General Comments	Weathered	
	Areas where difficult for two vehicles to pass each other safely	
SURFACE DEFECTS Score		4.0
Potholing (density)	Extensive notheling in some areas	_!
Corrugations (depth)	Extensive potholing in some areas  ugations (depth)	
	Most corners corrugated, some bad areas	
Weathered aggregate	Generally OK, some weathered brown rocks in places	
Exposed Subgrade	N/A	
General Comments	1473	
DRAINAGE	Score	5.0
Swale Depth (S/G freeboard)		
Side Slopes (%)	Typically OK, some areas limited	
	Up to 2:1	
Swale Cut-outs	Yes	
Longitudinal Grade (≥1%)		
Obstructions	Refer to carriageway comments	
	Some vegetation debris	

Scouring	Evident in steep sections		
Existing Culverts			
Silt Runoff	Generally OK		
General Comments	N/A		
VEGETATION		Score	6.0
Proximity to carriageway	Some dense bush areas		
Overhanging Branches?			
General Comments	No		
SIGNS/STREET FURNITURE		Score	4.0
Condition of signs			ļ
Edge marker posts	Poor condition, very dusty and hard to read		
Guardrails/Sight rails			
Line marking	Sight rails are very dirty		
<u>General Comments</u>			
RECOMMENDATIONS			





DATE OF OBSERVATION:	17/07/2019	CONTRACT AREA:	Fulton Hogan/Broadspectrum
ROAD NAME:	Diggers Valley Road	LOCALITY:	Takahue
TRAFFIC VOLUME:	150	ROAD CLASSIFICATION:	Rural Access
LAST MAINTAINED:	June 2019	WEATHER CONDITIONS:	Fine

	COMMENTS/OBSERVATIONS		
EXISTING CARRIAGEWAY	Sco	ore	6.0
Existing Width (m)	Vertice O.F. O.FM		
Crossfall (9/)	Varies 3.5 - 6.5M		
Crossfall (%)	Generally OK, approximately 3-4%		
Longitudinal Grade (%)	Varies flat to steep		
Superelevation (%)	Generally good, up to 10-15%		
Shoulder Grade (%)	N/A		
Aggregate Condition	14//		
1 1991 191111 1 1 1 1 1 1 1 1 1 1 1 1 1	Highly weathered in places		
General Comments	3 / /		
	Highly constrained due to topography but generally good with isolated section	ons of poor s	hape
SURFACE DEFECTS	Sco	ore	6.0
Potholing (density)			
	Infrequent, isolated patches		
Corrugations (depth)			
14/2 - 1/2 - 11 - 11 - 11 - 11 - 11 - 11 -	Isolated to steeper sections		
Weathered aggregate	In places		
Exposed Subgrade	In places		
LAPOOCA Gabgrado	Yes, two isolated sections noted		
General Comments			
	Generally good, isolated faults through logging areas		
DRAINAGE	Sco	ore	4.0
Swale Depth (S/G freeboard)			
	Limited, typically shallow if formed		
Side Slopes (%)	1:1 to N/A		
Swale Cut-outs			
	Infrequent		
Longitudinal Grade (≥1%)	OK, topography typically steep		
Obstructions	N/A		

Scouring	Yes, noted in steep, poorly drained sections		
Existing Culverts	ОК		
Silt Runoff	N/A		
General Comments	Stormwater control is generally poor, OK in some sections however steeper areas would benef from water tabling work		
VEGETATION		Score	6.0
Proximity to carriageway	ОК		
Overhanging Branches?	ОК		
General Comments			
SIGNS/STREET FURNITURE		Score	6.0
Condition of signs	ОК		<b>.</b>
Edge marker posts	OK		
Guardrails/Sight rails	ОК		
Line marking	N/A		
General Comments			
RECOMMENDATIONS			





DATE OF OBSERVATION:	18/07/2019	CONTRACT AREA:	Fulton Hogan
ROAD NAME:	Kauaepepe Road	LOCALITY:	Broadwood
TRAFFIC VOLUME:	28	ROAD CLASSIFICATION:	Rural Access
LAST MAINTAINED:	June 2019	WEATHER CONDITIONS:	Fine - Dusk

	COMMENTS/OBSERVATIONS	
EXISTING CARRIAGEWAY	Score	5.0
Existing Width (m)		
	4.0 - 5.0M	
Crossfall (%)	Typically 4-6%	
Longitudinal Grade (%)	Typically 1 070	
	Gently undulation - max ≈ 8%	
Superelevation (%)		
Chaudar Crada (9()	Typically OK ≈6-10% max 20%	
Shoulder Grade (%)	N/A	
Aggregate Condition	14//	
	Good	
General Comments		
SURFACE DEFECTS	Score	4.0
Potholing (density)		
	No potholing identified	
Corrugations (depth)		
Weathered aggregate	In most corners, severe in places	
Troumerou aggregate	Exposed coarse aggregate in some places	
Exposed Subgrade	,	
	N/A	
General Comments		
DRAINAGE	Score	4.0
Swale Depth (S/G freeboard)		<u> </u>
	Swale missing in the start, adjacent to quarry entrance	
Side Slopes (%)		
Swale Cut-outs	Up to 2:1	
Gwale Gul-Guls	OK	
Longitudinal Grade (≥1%)	<b>5</b> 10	
	As per carriageway comments	
Obstructions		
	N/A	

Scouring	Evident across carriageway in few sections		
Existing Culverts	OK		
Silt Runoff			
General Comments	N/A		
VEGETATION		Score	5.0
Proximity to carriageway	Dense vegetation on both sides		
Overhanging Branches?	In some sections		
General Comments			
SIGNS/STREET FURNITURE		Score	5.0
Condition of signs	OK		'
Edge marker posts	No defects, generally clean		
Guardrails/Sight rails	, ,		
Line marking			
General Comments			
RECOMMENDATIONS			





DATE OF OBSERVATION:	18/07/2019	CONTRACT AREA:	Fulton Hogan
ROAD NAME:	Papong Road	LOCALITY:	Broadwood
TRAFFIC VOLUME:	29	ROAD CLASSIFICATION:	Rural Access
LAST MAINTAINED:	July 2019	WEATHER CONDITIONS:	Fine - Dusk

	COMMENTS/OBSERVATIONS	
EXISTING CARRIAGEWAY	Score	6.0
Existing Width (m)	45 5 5M	
Crossfall (%)	4.5 - 5.5M	
	Typically good crossfall - approx 4-6%	
Longitudinal Grade (%)	Some steep sections in northern end up to around 10%	
Superelevation (%)	Generally OK ≈6-10%	
Shoulder Grade (%)		
	N/A	
Aggregate Condition	Areas of new replenishment metal spread	
General Comments	·	
SURFACE DEFECTS	Score	6.5
Potholing (density)		
	No potholing observed	
Corrugations (depth)		
	Minor corrugations evident on sharper corners	
Weathered aggregate		
	*Generally OK - sections of new metal	
Exposed Subgrade		
	N/A	
General Comments		
	*Isolated section of weathered metal - smooth surface. Isolated subgrade failure in shou	lder
	identified.	
DRAINAGE	Score	6.5
Swale Depth (S/G freeboard)		
	Generally OK throughout the length	
Side Slopes (%)	, , , ,	
	Up to 2:1	
Swale Cut-outs		
	Typically in place where required	
Longitudinal Grade (≥1%)		
	As per carriageway comments	
Obstructions	NI/A	
1	N/A	

Scouring	Not identified		
Existing Culverts			
Silt Runoff	Generally good with rock headwalls in high flow areas		
General Comments	N/A		
VEGETATION	Sco	re	7.0
Proximity to carriageway	5 1 1 30 11 3	<u> </u>	
Overhanging Branches?	Dense bush on either side in northern portion		
General Comments	N/A		
CIONG/CTDEET FURNITURE	Saa Saa		7.0
SIGNS/STREET FURNITURE  Condition of signs	Sco	re	7.0
	Generally in good clean condition		
Edge marker posts	As above		
Guardrails/Sight rails			
Line marking			
General Comments			
RECOMMENDATIONS			





DATE OF OBSERVATION:	17/07/2019	CONTRACT AREA:	Broadspectrum
ROAD NAME:	Puketotara Road	LOCALITY:	Kerikeri
TRAFFIC VOLUME:	150	ROAD CLASSIFICATION:	Rural Acess
LAST MAINTAINED:	May 2019	WEATHER CONDITIONS:	Fine

	COMMENTS/OBSERVATIONS		
EXISTING CARRIAGEWAY		Score	8.0
Existing Width (m)			1
	5.0 - 6.0 m		
Crossfall (%)	Cood up to E0/		
Longitudinal Grade (%)	Good - up to 5%		
	Flat to rolling		
Superelevation (%)			
	Good		
Shoulder Grade (%)			
Aggregate Condition	N/A		
Aggregate Condition	Good - loose material however		
General Comments			
	Very good - Reference site for 8		
SURFACE DEFECTS		Score	8.0
			0.0
Potholing (density)	Nama		
Corrugations (depth)	None		
Contiguione (aspuny	None		
Weathered aggregate			
	None		
Exposed Subgrade	Name.		
General Comments	None		
<u>Sonorar Commente</u>			
	Very good		
			1
DRAINAGE		Score	8.0
Swale Depth (S/G freeboard)			
	Good		
Side Slopes (%)			
Swale Cut-outs	Up to 1:1 (Varies)		
oware out-outs	As required OK		
Longitudinal Grade (≥1%)	, to roquirou ort		
	Minimal as result of contour		
Obstructions			
	N/A		

Scouring	N/A		
Existing Culverts	Fair to good		
Silt Runoff	N/A		
General Comments	IVA		
	Only isolated issues, generally very good		
VEGETATION	Sco	ore	
Proximity to carriageway			
Overhanging Branches?			
General Comments			
SIGNS/STREET FURNITURE	Sco	ore	
Condition of signs	OK		
Edge marker posts			
Guardrails/Sight rails			
Line marking			
General Comments			
RECOMMENDATIONS	Benchmark site for FNDC Observations. Very good 8/10		
	Denominant one for this discontinuous. Very good of to		





DATE OF OBSERVATION:	17/07/2019	CONTRACT AREA:	Fulton Hogan/Broadspectrum
ROAD NAME:	Martin Road	LOCALITY:	Kaeo
TRAFFIC VOLUME:	130	ROAD CLASSIFICATION:	Rural Access
LAST MAINTAINED:	July 2019	WEATHER CONDITIONS:	Fine

	COMMENTS/OBSERVATIONS	
EXISTING CARRIAGEWAY	Score	7.5
Existing Width (m)	5-5.5M	
Crossfall (%)		
Longitudinal Grade (%)	Varies up to 7%	
	Mostly level some minor undulation - NW, quite steep	
Superelevation (%)	10-15%	
Shoulder Grade (%)	N/A	
Aggregate Condition	1 1/1	
General Comments	Good, recent replenishment	
	Very good	
SURFACE DEFECTS	Score	7.5
		7.0
Potholing (density)	Very isolated to minor section of poor drainage	
Corrugations (depth)	N/A	
Weathered aggregate		
Exposed Subgrade	N/A	
	N/A	
General Comments		
DRAINAGE	Score	5.0
Swale Depth (S/G freeboard)		<b>!</b>
Side Slopes (%)	Typically OK, isolated section of ponding water	
	Up to 1:1	
Swale Cut-outs	Satisfactory	
Longitudinal Grade (≥1%)		
Obstructions	As per carriageway longitudinal grade	
	N/A	

Scouring	Isolated		
Existing Culverts	Typically Ok , limited pavement cover		
Silt Runoff			
General Comments	N/A		
	Recent water works evident		
VEGETATION		Score	6.0
Proximity to carriageway			
Overhanging Branches?	Isolated section with close proximity to vegetation		
General Comments	Some minor overhanging in steep section		
<u>Goriorar Goriimoria</u>			
SIGNS/STREET FURNITURE		Score	5.0
Condition of signs			
Edge marker posts	Good		
	ОК		
Guardrails/Sight rails	N/A		
Line marking	N/A		
General Comments			
RECOMMENDATIONS	Isolated sections of loose gravel		





DATE OF OBSERVATION:	18/07/2019	CONTRACT AREA:	Fulton Hogan
ROAD NAME:	Kohumaru Road	LOCALITY:	Mangonui
TRAFFIC VOLUME:	100	ROAD CLASSIFICATION:	Rural Access
LAST MAINTAINED:	June 2019	WEATHER CONDITIONS:	Fine

	COMMENTS/OBSERVATIONS	
EXISTING CARRIAGEWAY	Score	6.0
Existing Width (m)	Varios 4. 6 m (Narrows in stooper sections)	
Crossfall (%)	Varies 4 - 6 m (Narrows in steeper sections)	
Longitudinal Grade (%)	Good (Typically ≈ 4%)	
Longitudinai Grade (%)	Flat to steep	
Superelevation (%)	Good (Varies up to 15%)	
Shoulder Grade (%)	N/A	
Aggregate Condition	IVA	
General Comments	Typically pretty good (Fresh in places)	
	Mixed Aggregate - Mudstone/limestone soft rock run in over steep grades	
SURFACE DEFECTS	Score	6.0
Potholing (density)		
Minimal, more frequent at Southern end  Corrugations (depth)		
	Minimal	
Weathered aggregate	In isolated sections at Southern end	
Exposed Subgrade	Isolated patches	
General Comments	isolated patches	
DRAINAGE	Score	4.0
Swale Depth (S/G freeboard)		
	Good in places, however topography constrains	
Side Slopes (%)	N/A	
Swale Cut-outs		
Infrequent  Longitudinal Grade (≥1%)		
	In places, however several areas of ponding	
Obstructions	Yes	
· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·

Scouring	Minor	
Existing Culverts	Those observed were clear	
Silt Runoff	N/A	
General Comments		
	Drainage was generally fair, however freeboard and falls were lacking	g
VEGETATION	Score	6.0
Proximity to carriageway	N/A	
Overhanging Branches?	In places	
General Comments	πι μασεσ	
	Southern extent becomes quite densely vegetated, but generally clear of roa	ıd
SIGNS/STREET FURNITURE	Score	6.0
Condition of signs	N/A	- !
Edge marker posts	OK	
Guardrails/Sight rails	OK	
Line marking	N/A	
General Comments	IVA	
	OK	
RECOMMENDATIONS		





DATE OF OBSERVATION:	18/07/2019	CONTRACT AREA:	Broadspectrum
ROAD NAME:	Duncan Road	LOCALITY:	Kaingaroa
TRAFFIC VOLUME:	228	ROAD CLASSIFICATION:	Rural Secondary Collector
LAST MAINTAINED:	July 2019	WEATHER CONDITIONS:	Fine

	COMMENTS/OBSERVATIONS		
EXISTING CARRIAGEWAY		Score	5.0
Existing Width (m)			1
	4.0 - 5.5M		
Crossfall (%)	Congrally OV, up to ground 60/ may		
Longitudinal Grade (%)	Generally OK, up to around 6% max		
	Relatively level, max around 10%		
Superelevation (%)	·		
	Good super approximately 10-15% max		
Shoulder Grade (%)	NI/A		
Aggregate Condition	N/A		
piggrogato Condition	Weathered		
General Comments			
AUDITAGE DEFENDE			1.0
SURFACE DEFECTS		Score	4.0
Potholing (density)			
Corrupations (donth)	N/A		
Corrugations (depth)	Some isolated areas of severe corrugation		
Weathered aggregate	Come located areas of severe confugation		
	Aggregate very fine in some areas		
Exposed Subgrade			
General Comments	Isolated area of exposed rock subgrade		
General Comments			
DRAINAGE		Score	4.0
Swale Depth (S/G freeboard)			
, , , ,	Swales generally quite limited in depth		
Side Slopes (%)			
	Up to 2:1		
Swale Cut-outs	Constally in place		
Longitudinal Grade (≥1%)	Generally in place		
	As per carriageway		
Obstructions	. ,		
	Some vegetation debris		

Scouring	N/A	
Existing Culverts	Generally OK	
Silt Runoff		
General Comments	N/A	
VEGETATION	Score	5.0
Proximity to carriageway		
Overhanging Branches?	Close in low lying areas  Some areas of dense vegetation with overhanging branches visible	
<u>General Comments</u>	Come areas of acrise vegetation with evernaliging brahenes visible	
SIGNS/STREET FURNITURE	Score	5.0
Condition of signs		
Edge marker posts	Culverts and edge markers in place	
Guardrails/Sight rails		
Line marking		
General Comments		
RECOMMENDATIONS		





DATE OF OBSERVATION:	18/07/2019	CONTRACT AREA:	Fulton Hogan
ROAD NAME:	Henderson Bay Road	LOCALITY:	Ngataki
TRAFFIC VOLUME:	200	ROAD CLASSIFICATION:	Rural Secondary Collector
LAST MAINTAINED:	June 2019	WEATHER CONDITIONS:	Fine

	COMMENTS/OBSERVATIONS	
EXISTING CARRIAGEWAY	Score	7.0
Existing Width (m)		
	5.0 - 6.5M	
Crossfall (%)	Generally good - up to around 6-8%	
Longitudinal Grade (%)	constant good ap to dround a con-	
. ,	Rolling topography - up to approx. 15-20%	
Superelevation (%)		
Observation One also (OV)	Generally OK ≈ 6-10%	
Shoulder Grade (%)	N/A	
Aggregate Condition	IVA	
l iggi agus a sinaman	Good condition, looks fresh	
General Comments	·	
SURFACE DEFECTS	Score	5.0
Potholing (density)		
	None visible	
Corrugations (depth)	Communications aviidant in most compare, not had	
Weathered aggregate	Corrugations evident in most corners - not bad	
l l l l l l l l l l l l l l l l l l l	N/A	
Exposed Subgrade		
	Isolated area in eastern end where subgrade has punched through and is extensively ru	utted
General Comments		
DRAINAGE	Score	5.5
		0.0
Swale Depth (S/G freeboard)	Constally OK limited an inside of some corners	
Side Slopes (%)	Generally OK, limited on inside of some corners	
Side Giopes (70)	Steep, up to max 1:1	
Swale Cut-outs	5.65p, sp. 6.11011	
	Terrain allows run-off from swale	
Longitudinal Grade (≥1%)		
Obote intions	As per long grade	
Obstructions	Nana viaibla	
	None visible	

Scouring	Minor in some steep sections		
Existing Culverts			
Silt Runoff	Generally OK		
General Comments	N/A		
VEGETATION		Score	N/A
Proximity to carriageway			
Overhanging Branches?	N/A		
General Comments			
SIGNS/STREET FURNITURE		Score	7.0
Condition of signs	Cood condition no defeate		
Edge marker posts	Good condition - no defects		
Guardrails/Sight rails	As above		
Line marking	N/A		
General Comments	N/A		
<u>General Comments</u>			
DECOMMENDATIONS			
RECOMMENDATIONS			





DATE OF OBSERVATION:	19/07/2019	CONTRACT AREA:	Fulton Hogan
ROAD NAME:	Te Paki Stream Road	LOCALITY:	Te Paki
TRAFFIC VOLUME:	196	ROAD CLASSIFICATION:	Rural Sec. Collector
LAST MAINTAINED:	June 2019	WEATHER CONDITIONS:	Overcast

	COMMENTS/OBSERVATIONS		
EXISTING CARRIAGEWAY	Score	5.0	
Existing Width (m)			
Crossfall (%)	Varies - Typically 4.5 - 6.0 m		
	OK - more would be beneficial		
Longitudinal Grade (%)	Undulating		
Superelevation (%)	OK - more would help with drainage		
Shoulder Grade (%)	OK - more would help with drainage		
	N/A		
Aggregate Condition	OK		
General Comments			
	As roadside drainage is poor, carriageway shape could help minimise surface defects	5	
SURFACE DEFECTS	Score	4.0	
Potholing (density)	Ves included notebook		
Corrugations (depth)	Yes - isolated patches		
[ ] and [ ] an	Nothing significant - one isolated patch (30mm)		
Weathered aggregate	Yes		
Exposed Subgrade			
	Yes - numerous patches		
General Comments			
	Generally OK, weathered aggregate, shear failure noted where metal depth is limited	I	
DRAINAGE	Score	4.0	
Swale Depth (S/G freeboard)	Limited - shallow where formed		
Side Slopes (%)	Littlited - Strailow where formed		
, , ,	1:1		
Swale Cut-outs			
Longitudinal Grade (≥1%)	N/A		
Longitudinal Orado (2170)	Poor in places		
Obstructions			
	None noted		

Scouring	None significant		
Existing Culverts	None digimicant		
Silt Runoff			
General Comments			
	Drainage is poor. Areas of ponding as result of lim	ited depth and no fall.	
VEGETATION		Score	N/A
Proximity to carriageway	N/A		
Overhanging Branches?			
General Comments	N/A		
SIGNS/STREET FURNITURE		Score	N/A
Condition of signs	OK		,
Edge marker posts	N/A		
Guardrails/Sight rails	N/A		
Line marking	N/A		
General Comments	IVA		
RECOMMENDATIONS			





DATE OF OBSERVATION:	18/07/2019	CONTRACT AREA:	Fulton Hogan
ROAD NAME:	Te Hapua Road	LOCALITY:	Te Hapua
TRAFFIC VOLUME:	120	ROAD CLASSIFICATION:	Rural Access
LAST MAINTAINED:	June 2019	WEATHER CONDITIONS:	Fine - Dusk

	COMMENTS/OBSERVATIONS	
EXISTING CARRIAGEWAY	Score	6.0
Existing Width (m)		l
	6.0 - 6.5M	
Crossfall (%)	Departing allowers flat according a sether line.	
Longitudinal Grade (%)	Poor in places, flat causing potholing	
Longitudinal Grade (70)	Relatively level	
Superelevation (%)		
	Good - typically 10-15%	
Shoulder Grade (%)		
Aggragata Candition	N/A	
Aggregate Condition	Good	
General Comments	3000	
		<del></del>
SURFACE DEFECTS	Score	3.5
Potholing (density)		<b>!</b>
	Severe in several places where crossfall is limited	
Corrugations (depth)		
M/a a th a ya d a gaya ya ta	Isolated areas of corrugation	
Weathered aggregate	Aggregate looks reasonably fresh	
Exposed Subgrade	Aggregate looks reasonably fresh	
	Isolated area of subgrade exposure	
General Comments	<u> </u>	
	•	
DRAINAGE	Score	6.0
Swale Depth (S/G freeboard)		
Side Slopes (%)	Generally OK, some isolated areas of ponding	
Side Slopes (%)	Up to 2H:1V	
Swale Cut-outs	ορ to 211.1 V	
	Generally every 200m	
Longitudinal Grade (≥1%)		
	Refer to long grade comment	
Obstructions		
	No obstructions evident	

N/A	
N/A	
Scor	e N/A
N/A	
N/A	
Scor	e 6.0
Good condition	
	Scon N/A  Scon N/A  Scon  Good condition



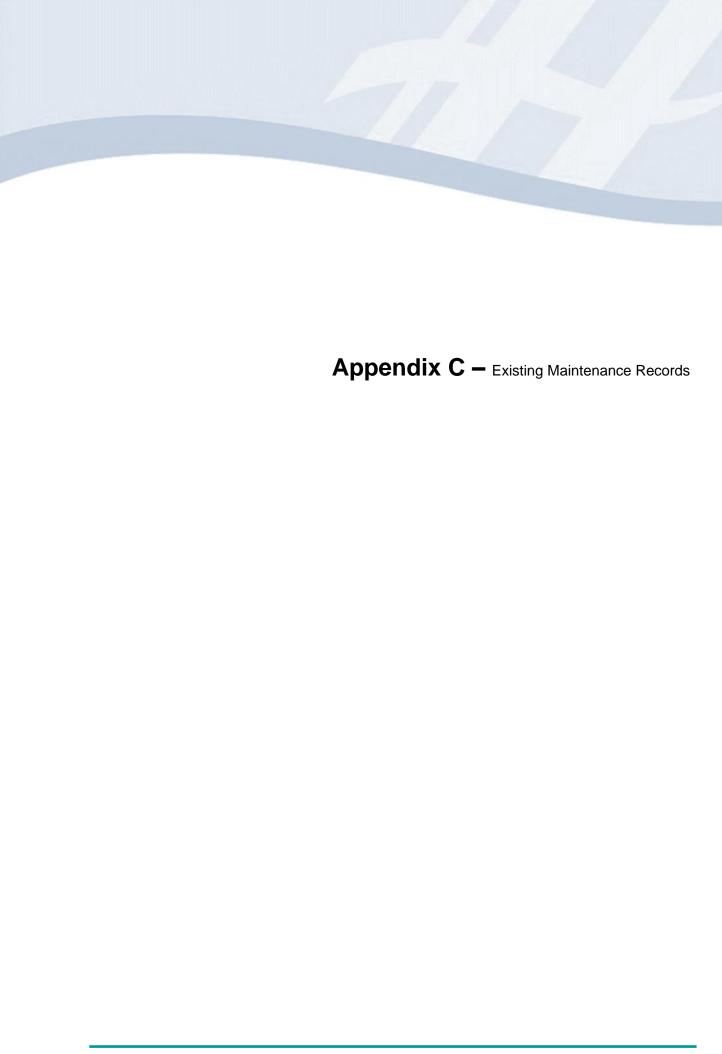


## **UNSEALED ROAD MAINTENANCE OBSERVATION RECORD**

DATE OF OBSERVATION:	18/07/2019	CONTRACT AREA:	Fulton Hogan
ROAD NAME:	Rarawa Beach Road	LOCALITY:	Ngataki
TRAFFIC VOLUME:	60	ROAD CLASSIFICATION:	Rural Access
LAST MAINTAINED:	June 2019	WEATHER CONDITIONS:	Fine

	COMMENTS/OBSERVATIONS		
EXISTING CARRIAGEWAY		Score	7.0
Existing Width (m)	6.0 - 7.0 m		
Crossfall (%)	6.0 - 7.0 III		
Longitudinal Grade (%)	Good up to 5%		
	Gently falling to flat		
Superelevation (%)	Good up to 10%		
Shoulder Grade (%)	N/A		
Aggregate Condition			
General Comments	Good - however some loose material		
	Generally very good		
	, , g		
SURFACE DEFECTS		Score	7.0
Potholing (density)	None		ļ
Corrugations (depth)	Notic		
Weathered aggregate	None		
	N/A		
Exposed Subgrade	N/A		
General Comments			
	Good		
DRAINAGE		Score	6.0
Swale Depth (S/G freeboard)			•
Side Slopes (%)	Shallow but formed		
	1:1		
Swale Cut-outs	No		
Longitudinal Grade (≥1%)	Minimal - Constrained		
Obstructions			
	None noted		

Scouring	Na		
Existing Culverts	No		
Silt Runoff	OK		
	No		
General Comments			
	Satisfactory - but could be improve	ed	
VEGETATION		Score	N/A
Proximity to carriageway	AVA	_	<u> </u>
Overhanging Branches?	N/A		
General Comments	N/A		
<u>General Comments</u>			
SIGNS/STREET FURNITURE		Score	6.0
Condition of signs	OV		•
Edge marker posts	OK		
Guardrails/Sight rails	N/A		
	N/A		
Line marking	N/A		
General Comments	TW/X		
RECOMMENDATIONS			
NESOMMENDATIONS			



Contract	Dispatch I Ro	ad Road	Fault	Start E	nd Le	ngth Wi	dth Dep	th Side	Programm Notes Maint Note	Claim Num Item Numt	Item Number Unit	s Claim Quar Account 2 Notes
7/18/101 Mtce & Renewals South (22)	20960	1785 HOREKE ROAD	Running course - Spot aggregate loss (m3) R	4630	4830	ngth Wi	5.5	30 Full Width	Becoming bare and bo		Unsealed - GAP20 or GAP30 Supp m <sup>3</sup>	33 4015.1.1.4922 - Unsealed Road Metaling 211
7/18/101 Mtce & Renewals South (22)	20963	1785 HOREKE ROAD	Running course - Spot aggregate loss (m3) R	6600	6850	250	5.5	30 Full Width	Very light to bare thro		Unsealed - GAP20 or GAP30 Supp m <sup>3</sup>	41.25 4015.1.1.4922 - Unsealed Road Metaling 211
7/18/101 Mtce & Renewals South (22)	20964	1785 HOREKE ROAD	Running course - Spot aggregate loss (m3) R	7000	7500	500	5.5	30 Full Width	Bare to clay and becon	•	Unsealed - GAP20 or GAP30 Supp m <sup>3</sup>	82.5 4015.1.1.4922 - Unsealed Road Metaling 211
7/18/101 Mtce & Renewals South (22)	20965	1785 HOREKE ROAD	Running course - Spot aggregate loss (m3) R	8100	8400	300	6.1	30 Full Width	Down to clay through		Unsealed - GAP20 or GAP30 Supp m <sup>3</sup>	27 4015.1.1.4922 - Unsealed Road Metaling 211
7/18/101 Mtce & Renewals South (22)	20968	1785 HOREKE ROAD	Running course - Spot aggregate loss (m3) R	8965	9165	200	6.1	30 Full Width	Bare to clay.		Unsealed - GAP20 or GAP30 Supp m <sup>3</sup>	37 4015.1.1.4922 - Unsealed Road Metaling 211
7/18/101 Mtce & Renewals South (22)	20970	1785 HOREKE ROAD	Running course - Spot aggregate loss (m3) R	10801	11051	250	6.3	30 Full Width	Becoming bare.	May-19 UR02.2	Unsealed - GAP20 or GAP30 Supp m <sup>3</sup>	48 4015.1.1.4922 - Unsealed Road Metaling 211
7/18/101 Mtce & Renewals South (22)	20962	1785 HOREKE ROAD	Potholes - Unsealed (ea) R	5472				Full Width	Bridge approaches bac	May-19 UR01.1.1	Unsealed - Pothole Repairs (Routi each	10 4118.1.1.2405 - Unsealed pavement mtce 112
7/18/101 Mtce & Renewals South (22)	20957	1785 HOREKE ROAD	Potholes - Unsealed (ea) R	3108				Left		May-19 UR01.1.1	Unsealed - Pothole Repairs (Routi each	6 4118.1.1.2405 - Unsealed pavement mtce 112
7/18/101 Mtce & Renewals South (22)	20958	1785 HOREKE ROAD	Potholes - Unsealed (ea) R	3265				Left		May-19 UR01.1.1	Unsealed - Pothole Repairs (Routi each	8 4118.1.1.2405 - Unsealed pavement mtce 112
7/18/101 Mtce & Renewals South (22)	20959	1785 HOREKE ROAD	Potholes - Unsealed (ea) R	3467				Right		May-19 UR01.1.1	Unsealed - Pothole Repairs (Routi each	6 4118.1.1.2405 - Unsealed pavement mtce 112
7/18/101 Mtce & Renewals South (22)	6452	1785 HOREKE ROAD	CP1 Single - Blocked chamber (ea)	14870				Right	Jun-19 Single Sump		Sump cleaning CP1 (Single) each	
7/18/101 Mtce & Renewals South (22)	9687	1785 HOREKE ROAD	WT Heavy mtce / reform - Inadequate (m)	14246	14271	25		Left	May-19 Reseal Site. Clear wate		Watertable Mtce - Heavy metr	
7/18/101 Mtce & Renewals South (22)	9694	1785 HOREKE ROAD	WT Heavy mtce / reform - Inadequate (m)	10104	10138	34		Right	May-19 Clear watertables 34m		Watertable Mtce - Heavy metr	
7/18/101 Mtce & Renewals South (22)	9776	1785 HOREKE ROAD	WT Heavy mtce / reform - Inadequate (m)	8154	8216	62		Left	May-19 Clear watertables 62m		Watertable Mtce - Heavy meti	
7/18/101 Mtce & Renewals South (22)	9777	1785 HOREKE ROAD	WT Heavy mtce / reform - Inadequate (m)	8131	8141	10		Left	May-19 Clear watertables 10m		Watertable Mtce - Heavy metr	
7/18/101 Mtce & Renewals South (22)	9781	1785 HOREKE ROAD	WT Heavy mtce / reform - Inadequate (m)	7641	7687	46		Right	May-19 Clear watertables 46m		Watertable Mtce - Heavy metr	
7/18/101 Mtce & Renewals South (22)	9839	1785 HOREKE ROAD	WT Heavy mtce / reform - Inadequate (m)	6782	6824	42		Right	May-19 Clear watertables 42m		Watertable Mtce - Heavy metr	
7/18/101 Mtce & Renewals South (22)	9688	1785 HOREKE ROAD	CP1 Single - Blocked chamber (ea)	14067	12502	12		Right	Jun-19 Water jet culvert requi		Sump cleaning CP1 (Single) each	
7/18/101 Mtce & Renewals South (22) 7/18/101 Mtce & Renewals South (22)	9575 23940	1785 HOREKE ROAD 1785 HOREKE ROAD	WT Heavy mtce / reform - Inadequate (m) WT Heavy mtce / reform - Inadequate (m)	13581 14246	13593 14271	25		Right Right	Apr-19 Clear watertables 12m May-19 Reseal Site. Clear wate		Watertable Mtce - Light metr Watertable Mtce - Heavy metr	
7/18/101 Mtce & Renewals South (22)	24908	1785 HOREKE ROAD	Running course - Spot aggregate loss (m3) R	3000	5500	2500	5.5	30 Full Width	Jun-19 Bare down to clay.		Unsealed - GAP20 or GAP30 Supp m <sup>3</sup>	531 4015.1.1.4922 - Unsealed Road Metaling 211
7/18/101 Mtce & Renewals South (22)	20956	1785 HOREKE ROAD	Potholes - Unsealed (ea) R	3024	3300	2300	3.3	Left	Juli-13 Daie dowii to cidy.		Unsealed - Pothole Repairs (Routi each	-
7/18/101 Mtce & Renewals South (22)	20961	1785 HOREKE ROAD	Grading - x-fall/potholes/corrugation/rut (m) R	3500	5500	2000		Full Width	Becoming potholed an		Unsealed - Furface Grading (Rout met	
7/18/101 Mtce & Renewals South (22)	24907	1785 HOREKE ROAD	Potholes - Unsealed (ea) R	5510	-500			Full Width	At bridge end.		Unsealed - Pothole Repairs (Routi each	
7/18/101 Mtce & Renewals South (22)	20966	1785 HOREKE ROAD	Grading - x-fall/potholes/corrugation/rut (m) R	6500	9500	3000		Full Width	Spot grade and reshap		Unsealed - Surface Grading (Rout meti	
7/18/101 Mtce & Renewals South (22)	20969	1785 HOREKE ROAD	Potholes - Unsealed (ea) R	9507				Centre	Bridge approaches.		Unsealed - Pothole Repairs (Routi each	
7/18/101 Mtce & Renewals South (22)	9840	1785 HOREKE ROAD	WT Heavy mtce / reform - Inadequate (m)	6178	6199	21		Left	May-19 Clear watertables 21m		Watertable Mtce - Heavy metr	
7/18/101 Mtce & Renewals South (22)	9844	1785 HOREKE ROAD	WT Heavy mtce / reform - Inadequate (m)	5668	5725	57		Right	May-19 Clear watertables 57m	Jul-19 DR02.2	Watertable Mtce - Heavy metr	es 57 4031.1.1.2405 - Routine Drainage Maintenance 113
7/18/101 Mtce & Renewals South (22)	9847	1785 HOREKE ROAD	WT Heavy mtce / reform - Inadequate (m)	4517	4548	31		Right	May-19 Clear watertables 31m	Jul-19 DR02.2	Watertable Mtce - Heavy metr	es 31 4031.1.1.2405 - Routine Drainage Maintenance 113
7/18/101 Mtce & Renewals South (22)	9857	1785 HOREKE ROAD	WT Heavy mtce / reform - Inadequate (m)	3483	3549	66		Right	May-19 Clear watertables 66m	Jul-19 DR02.2	Watertable Mtce - Heavy met	es 66 4031.1.1.2405 - Routine Drainage Maintenance 113
7/18/101 Mtce & Renewals South (22)	9571	1785 HOREKE ROAD	Culvert flushing - Blocked barrel (ea)	13265				Left	Water jet culvert requi	red. Culver DR07.1	Culvert Flushing each	4031.1.1.2405 - Routine Drainage Maintenance 113
7/18/101 Mtce & Renewals South (22)	9577	1785 HOREKE ROAD	WT Heavy mtce / reform - Inadequate (m)	13541	13571	30		Left	Clear watertables 30m	_	Watertable Mtce - Heavy met	
7/18/101 Mtce & Renewals South (22)	9582	1785 HOREKE ROAD	WT Heavy mtce / reform - Inadequate (m)	13837	13872	35		Both	Clear watertables 35m	~	Watertable Mtce - Heavy metr	
7/18/101 Mtce & Renewals South (22)	9699	1785 HOREKE ROAD	WT Heavy mtce / reform - Inadequate (m)	9308	9331	23		Left	Aug-19 Clear watertables 23m	_	Watertable Mtce - Heavy metr	
7/18/101 Mtce & Renewals South (22)	9704	1785 HOREKE ROAD	WT Heavy mtce / reform - Inadequate (m)	9087	9108	21		Left	Clear watertables 21m		Watertable Mtce - Heavy metr	
7/18/101 Mtce & Renewals South (22)	9864	1785 HOREKE ROAD	Culvert flushing - Blocked barrel (ea)	2520	4007			Right	Water jet culvert requi		Culvert Flushing each	ÿ ·
7/18/101 Mtce & Renewals South (22)	9853	1785 HOREKE ROAD	WT Light mtce / reform - Blocked (m)	4181	4207	26		Right	Aug-19 Clear cutout 26m exclu	_	Watertable Mtce - Light metr	
7/18/101 Mtce & Renewals South (22)	9851	1785 HOREKE ROAD	Culvert renewal - Inadequate/damaged (m)	4336	4346	10		Right			Culvert replace 375 dia 0 - 1.5m d metr	
7/18/101 Mtce & Renewals South (22)	9843	1785 HOREKE ROAD	Install headwall structure - Scour (ea)	5681	5691			Right			Culvert Headwalls (Concreted Roy each	
7/18/101 Mtce & Renewals South (22)	9842 9926	1785 HOREKE ROAD	Install headwall structure - Scour (ea)	5819 959				Right Left			Culvert Headwalls (Concreted Roc each Drainage Mtce (Routine) each	
7/18/101 Mtce & Renewals South (22) 7/18/101 Mtce & Renewals South (22)	11306	1785 HOREKE ROAD 1785 HOREKE ROAD	Culvert clear 2m - Blocked ent (ea) R Install headwall structure - Scour (ea)	1183				Centre			Drainage Mtce (Routine) each Culvert Headwalls (Concreted Roc each	
7/18/101 Mice & Renewals South (22)	9850	1785 HOREKE ROAD	Culvert renewal - Inadequate/damaged (m)	4422	4430	7.5		Right		_	Culvert replace 375 dia 0 - 1.5m d meti	
7/18/101 Mtce & Renewals South (22)	14009	1785 HOREKE ROAD	Install headwall structure - Scour (ea)	4422	4430	7.5		Right			Culvert Headwalls (Concreted Roc each	
7/18/101 Mtce & Renewals South (22)	14010	1785 HOREKE ROAD	Install headwall structure - Scour (ea)	4336	4346			Right		•	Culvert Headwalls (Concreted Roc each	
7/18/101 Mtce & Renewals South (22)	14011	1785 HOREKE ROAD	Culvert renewal - Inadequate/damaged (m)	5681	5691	10		Right			Culvert replace 375 dia 0 - 1.5m d meti	
7/18/101 Mtce & Renewals South (22)	15856	1785 HOREKE ROAD	Culvert new install - Inadequate capacity (m)	13448	13458	10		Centre	Replacement required.		Culvert replace 375 dia 0 - 1.5m d meti	
7/18/101 Mtce & Renewals South (22)	20967	1785 HOREKE ROAD	WT Light mtce / reform - Blocked (m)	8997	9032	35		Left	Open watertable to mo		Watertable Mtce - Heavy meti	
7/18/101 Mtce & Renewals South (22)	9841	1785 HOREKE ROAD	WT Heavy mtce / reform - Inadequate (m)	6046	6066	20		Right	Jul-19 Machine clean outlet >		Watertable Mtce - Heavy metr	
7/18/101 Mtce & Renewals South (22)	9845	1785 HOREKE ROAD	WT Heavy mtce / reform - Inadequate (m)	5399	5419	20		Right	Jul-19 Machine clean both inl	et and outl DR02.2	Watertable Mtce - Heavy metr	res 4031.1.1.2405 - Routine Drainage Maintenance 113
7/18/101 Mtce & Renewals South (22)	25154	1785 HOREKE ROAD	Channel sweep - Remove detritus (m) C	14381	14481	100		Left	Aug-19 Sweep dirt from chann	el DR08.3	Channel Sweeping Zone 3 - Four t kilon	netre 4031.1.1.2405 - Routine Drainage Maintenance 113
7/18/101 Mtce & Renewals South (22)	23713	2083 OPARA ROAD	Grading - x-fall/potholes/corrugation/rut (m) R	0	3077	3077		Full Width			Unsealed - Surface Grading (Rout met	
7/18/101 Mtce & Renewals South (22)	24734	2083 OPARA ROAD	Potholes - Unsealed (ea) R	77				Centre			Unsealed - Pothole Repairs (Routi each	
7/18/101 Mtce & Renewals South (22)	10907	2498 WAIMAMAKU BEACH ROAD		412	4125	3713	4	25 Full Width	Cover slushy areas		Unsealed - GAP20 or GAP30 Supp m <sup>3</sup>	-102 4015.1.1.4922 - Unsealed Double up with dispatch 10756
7/18/101 Mtce & Renewals South (22)	23880	2498 WAIMAMAKU BEACH ROAD		534				Right			Unsealed - Pothole Repairs (Routi each	•
7/18/101 Mtce & Renewals South (22)	23879	2498 WAIMAMAKU BEACH ROAD		753				Right			Unsealed - Pothole Repairs (Routi each	·
7/18/101 Mtce & Renewals South (22)	23878	2498 WAIMAMAKU BEACH ROAD		938	4017	662		Centre			Unsealed - Pothole Repairs (Routi each	·
7/18/101 Mtce & Renewals South (22)	23950		Or Grading - x-fall/potholes/corrugation/rut (m) R	354	1017	663		Full Width		•	Unsealed - Surface Grading (Rout met	·
7/18/101 Mtce & Renewals South (22)	23949		O Grading - x-fall/potholes/corrugation/rut (m) R	1104	1305	201 3641		Full Width			Unsealed - Surface Grading (Rout met	
7/18/101 Mtce & Renewals South (22) 7/18/101 Mtce & Renewals South (22)	23948 23947		D) Grading - x-fall/potholes/corrugation/rut (m) R D) Grading - x-fall/potholes/corrugation/rut (m) R	1362 5003	5003 8422	3641 3419		Full Width Full Width			Unsealed - Surface Grading (Rout metal Unsealed - Surface Grading (Rout metal	·
7/18/101 Mtce & Renewals South (22)	23947		Or Grading - x-fall/potholes/corrugation/rut (m) R	8422	9646	1224		Full Width			Unsealed - Surface Grading (Rout met	
7/18/101 Mtce & Renewals South (22)	25141	2510 WAIOTEMARAMA GORGE RO		1182	3040	144		Right		•	Unsealed - Pothole Repairs (Routi each	·
7/18/101 Mtce & Renewals South (22)	21080	2563 WHAREPUNGA ROAD	Running course - Spot aggregate loss (m3) R	0	150	150	5.2	30 Full Width	Bare coming up to inte		Unsealed - GAP20 or GAP30 Supp m <sup>3</sup>	23.4 4015.1.1.4922 - Unsealed Road Metaling 211
7/18/101 Mtce & Renewals South (22)	21080	2563 WHAREPUNGA ROAD	Running course - Spot aggregate loss (m3) R	425	625	200	5.2	30 Full Width	Bare and flat needes to		Unsealed - GAP20 or GAP30 Supp m <sup>3</sup>	31.2 4015.1.1.4922 - Unsealed Road Metaling 211
7/18/101 Mtce & Renewals South (22)	21082	2563 WHAREPUNGA ROAD	Running course - Spot aggregate loss (m3) R	1118	1218	100	5.2	30 Full Width	Bare down to clay.		Unsealed - GAP20 or GAP30 Supp m <sup>3</sup>	15.6 4015.1.1.4922 - Unsealed Road Metaling 211
7/18/101 Mtce & Renewals South (22)	21083	2563 WHAREPUNGA ROAD	Running course - Spot aggregate loss (m3) R	1792	1992	200	5.2	30 Full Width	Bare to clay in places.		Unsealed - GAP20 or GAP30 Supp m <sup>3</sup>	44.9 4015.1.1.4922 - Unsealed Road Metaling 211
7/18/101 Mtce & Renewals South (22)	21084	2563 WHAREPUNGA ROAD	Running course - Spot aggregate loss (m3) R	2600	2850	250	5.2	30 Full Width	Very light through this		Unsealed - GAP20 or GAP30 Supp m <sup>3</sup>	44.9 4015.1.1.4922 - Unsealed Road Metaling 211
7/18/101 Mtce & Renewals South (22)	24049	2563 WHAREPUNGA ROAD	Running course - Spot aggregate loss (m3) R	4976	6976	2000	5.2	30 Full Width	Down to clay.Ninihi Rc	•	Unsealed - GAP20 or GAP30 Supp m <sup>3</sup>	65 4015.1.1.4922 - Unsealed have already dropped 65 m3 gap 30
7/18/101 Mtce & Renewals South (22)	13830	2563 WHAREPUNGA ROAD	Culvert new install - Inadequate capacity (m)	4636	4644	7.5		Centre	Jul-19 Replacement required,	sections sh DR06.1	Culvert replace 300 dia 0 - 1.5m d metr	res 4011.1.1.4922 - Drainage Install 300mm dia culvert. Culvert to remain as a 300mm due to insuffient cover.
7/18/101 Mtce & Renewals South (22)	13956	2563 WHAREPUNGA ROAD	Culvert flushing - Blocked barrel (ea)	852				Left	Jul-19 Water jet culvert requi	red. Culver DR07.1	Culvert Flushing each	4031.1.1.2405 - Routine Drainage Maintenance 113
7/18/101 Mtce & Renewals South (22)	16404	2563 WHAREPUNGA ROAD	Culvert flushing - Blocked barrel (ea)	631				Left	Jul-19 Water jet culvert requi	red. Culver DR07.1	Culvert Flushing each	
7/18/101 Mtce & Renewals South (22)	16652	2563 WHAREPUNGA ROAD	WT Heavy mtce / reform - Inadequate (m)	4972	4987	15		Left	Vehicle has gone into d		Watertable Mtce - Heavy met	
7/18/101 Mtce & Renewals South (22)	23995	2563 WHAREPUNGA ROAD	WT Heavy mtce / reform - Inadequate (m)	5972	6007	35		Left		DR02.2	Watertable Mtce - Heavy met	res 4031.1.1.2405 - Routine Drainage Maintenance 113

Contract	Dispatch I Ro	oad Road	Fault St	tart E	nd Ler	ngth Width	n Depth	Side	Programm Notes Maint Note C	Claim Num Item Nur	nb Item Number	Units	Claim Quar Account 2	Notes	
7/18/101 Mtce & Renewals South (22)	15293	2201 ORAKAU ROAD	Culvert flus	4245				Left	Jul-19 Water jet culvert. Barrel	blocked DR07.1	Culvert Flushing	each	4031.1.1.2405 - Routi	ne Drainage Maintenance 113	
7/18/101 Mtce & Renewals South (22)	15289	2201 ORAKAU ROAD	Culvert flus	320				Left	Jul-19 Water jet culvert. Barrel	blocked DR07.1	Culvert Flushing	each	4031.1.1.2405 - Routi	ne Drainage Maintenance 113	
7/18/101 Mtce & Renewals South (22)	15385	2201 ORAKAU ROAD	WT Light m	12602	12612	10		Left	Aug-19 Clear watertables 10m e	excluding 2 DR02.1	Watertable Mtce - Light	metres	4031.1.1.2405 - Routi	ne Drainage Maintenance 113	
7/18/101 Mtce & Renewals South (22)	15384	2201 ORAKAU ROAD	Culvert flus	12616				Left	Jul-19 Water jet culvert. Barrel	blocked DR07.1	Culvert Flushing	each	4031.1.1.2405 - Routi	ne Drainage Maintenance 113	
7/18/101 Mtce & Renewals South (22)	15383	2201 ORAKAU ROAD	Culvert flus	12782				Left	Jul-19 Water jet culvert. Barrel	blocked DR07.1	Culvert Flushing	each	4031.1.1.2405 - Routi	ne Drainage Maintenance 113	
7/18/101 Mtce & Renewals South (22)	15370	2201 ORAKAU ROAD	WT Light m	16068	16091	23		Right	Aug-19 Clear watertables 23m e	excluding 2 DR02.2	Watertable Mtce - Heavy	metres	4031.1.1.2405 - Routi	ne Drainage Maintenance 113	
7/18/101 Mtce & Renewals South (22)	15368	2201 ORAKAU ROAD	WT Light m	16185	16203	18		Right	Aug-19 Clear watertables 18m e	excluding 2 DR02.2	Watertable Mtce - Heavy	metres	4031.1.1.2405 - Routi	ne Drainage Maintenance 113	
7/18/101 Mtce & Renewals South (22)	15414	2201 ORAKAU ROAD	Culvert flus	7768				Left	Jul-19 Water jet culvert. Barrel	blocked DR07.1	Culvert Flushing	each	4031.1.1.2405 - Routi	ne Drainage Maintenance 113	
7/18/101 Mtce & Renewals South (22)	15405	2201 ORAKAU ROAD	WT Light m	10701	10706	5		Left	Aug-19 Clear watertables 5m ex	cluding 2r DR02.1	Watertable Mtce - Light	metres	4031.1.1.2405 - Routi	ne Drainage Maintenance 113	
7/18/101 Mtce & Renewals South (22)	15403	2201 ORAKAU ROAD	WT Light m	10896	10910	14		Right	Aug-19 Clear watertables 14m e	excluding 2 DR02.1	Watertable Mtce - Light	metres	4031.1.1.2405 - Routi	ne Drainage Maintenance 113	
7/18/101 Mtce & Renewals South (22)	15378	2201 ORAKAU ROAD	WT Heavy	14919	14936	17		Right	Jun-19 Clear watertables 17m	Jun-19 DR02.2	Watertable Mtce - Heavy	metres	17 4031.1.1.2405 - Routi	ne Drainage Maintenance 113	
7/18/101 Mtce & Renewals South (22)	23748	2164 PIPIWAI ROAD	WT Heavy	8457	8471	14		Right	Jul-19 Clear watertables 14m	Jun-19 DR02.2	Watertable Mtce - Heavy	metres	14 4031.1.1.2405 - Routi	ne Drainage Maintenance 113	
7/18/101 Mtce & Renewals South (22)	23744	2164 PIPIWAI ROAD	Culvert nev	8226	8238	12.5		Right	Jul-19 Replacement required. S	Sections sl DR06.4	Culvert replace 600 dia 0 - 1.5m	n d metres	4011.1.1.4922 - Drain	age Renewals 213	
7/18/101 Mtce & Renewals South (22)	23745	2164 PIPIWAI ROAD	Install heac	8226				Both	Jul-19 Install headwalls both si	des. DR06.10	Culvert Headwalls (Concreted F	Roc each	4011.1.1.4922 - Drain	age Renewals 213	
7/18/101 Mtce & Renewals South (22)	24068	2164 PIPIWAI ROAD	Culvert nev	9098	9110	12.5		Full Width	Jul-19 Replacement required. S	Sections sl DR06.4	Culvert replace 600 dia 0 - 1.5m	n d metres	4011.1.1.4922 - Drain	age Renewals 213	
7/18/101 Mtce & Renewals South (22)	24330	2164 PIPIWAI ROAD	Install heac	9098	9110			Both	Jul-19 Replacement required. I	nstall hea DR06.10	Culvert Headwalls (Concreted F	Roc each	4011.1.1.4922 - Drain	age Renewals 213	
7/18/101 Mtce & Renewals South (22)	25244	2164 PIPIWAI ROAD	Culvert dig	1284				Both	Jul-19 Machine clean both inle	t and outl DW1.8	DW - Mini Excavator < 3 tonne	hour	4031.1.1.2405 - Routi	ne Drainage Maintenance 113	
7/18/101 Mtce & Renewals South (22)	25244	2164 PIPIWAI ROAD	Culvert dig	1284				Both	Jul-19 Machine clean both inle	t and outl DW1.19	DW - Truck (4 - 6 m3)	hour	4031.1.1.2405 - Routi	ne Drainage Maintenance 113	
7/18/101 Mtce & Renewals South (22)	25244	2164 PIPIWAI ROAD	Culvert dig	1284				Both	Jul-19 Machine clean both inle	t and outl DW2.1	DW - Labourer	hour	4031.1.1.2405 - Routi	ne Drainage Maintenance 113	
7/18/101 Mtce & Renewals South (22)	801	2384 TAPUHI ROAD	Install heac	6321				Centre	May-19 Washout outlet side ex	May-19 DW2.1	DW - Labourer	hour	2 4031.1.1.2405 - Routi	ne Drainage Maintenance 113	
7/18/101 Mtce & Renewals South (22)	801	2384 TAPUHI ROAD	Install heac	6321				Centre	May-19 Washout outlet side ex	May-19 DW1.8	DW - Mini Excavator < 3 tonne	hour	1 4031.1.1.2405 - Routi	ne Drainage Maintenance 113	
7/18/101 Mtce & Renewals South (22)	801	2384 TAPUHI ROAD	Install heac	6321				Centre	May-19 Washout outlet side ex	May-19 DW1.19	DW - Truck (4 - 6 m3)	hour	2 4031.1.1.2405 - Routi	ne C Supply backfill	
7/18/101 Mtce & Renewals South (22)	801	2384 TAPUHI ROAD	Install heac	6321				Centre	May-19 Washout outlet side ex	May-19 DW3.1	DW - Materials (PS)	each	50 4031.1.1.2405 - Routi	ne E Gap65 backfill Est 3m³	
7/18/101 Mtce & Renewals South (22)	801	2384 TAPUHI ROAD	Install heac	6321				Centre	May-19 Washout outlet side ex	May-19 DW3.2	DW - Materials On-Cost (15%)	Percentage	1 4031.1.1.2405 - Routi	ne Drainage Maintenance 113	
7/18/101 Mtce & Renewals South (22)	9293	2384 TAPUHI ROAD	Culvert dig	10257				Both	May-19 Culvert 10257 blocked	May-19 DW1.8	DW - Mini Excavator < 3 tonne	hour	1 4031.1.1.2405 - Routi	ne Drainage Maintenance 113	
7/18/101 Mtce & Renewals South (22)	9293	2384 TAPUHI ROAD	Culvert dig	10257				Both	May-19 Culvert 10257 blocked	May-19 DW2.1	DW - Labourer	hour	1 4031.1.1.2405 - Routi	ne Drainage Maintenance 113	
7/18/101 Mtce & Renewals South (22)	20821	2384 TAPUHI ROAD	WT Heavy	10041	10076	35		Left	Jul-19 HWT required on the lef	ft for abou DR02.2	Watertable Mtce - Heavy	metres	4031.1.1.2405 - Routi	ne Drainage Maintenance 113	
7/18/101 Mtce & Renewals South (22)	20982	2384 TAPUHI ROAD	Wearing cc	9539	9975	436	5.3	150 Full Width	May-19 Low through this section	May-19 UR07.1	UnsWearing Course - Supply ca	rta m³	208 4015.1.1.4922 - Unse	aled 139m³ solid = 208m³ loose meas	ure. 60mm of GAP 30 wearing course
7/18/101 Mtce & Renewals South (22)	20982	2384 TAPUHI ROAD	Wearing cc	9539	9975	436	5.3	150 Full Width	May-19 Low through this section	May-19 UR06.1	UnsPvmtStrgth - GAP40 or GAP	65 m³	519 4015.1.1.4922 - Unse	aled 346m³ solid = 519m³ loose meas	ure. 150mm of GAP 65
7/18/101 Mtce & Renewals South (22)	21123	2384 TAPUHI ROAD	Install heac	6321				Centre	May-19 Washout outlet side ex	May-19 DR06.10	Culvert Headwalls (Concreted F	Roc each	1 4011.1.1.4922 - Drain	age Renewals 213	
7/18/101 Mtce & Renewals South (22)	23972	2384 TAPUHI ROAD	Rip & rema	4705	4735	30	6.5	Right	Jun-19 on site discussed with	Jun-19 UR05.1	Unsealed - Rip and Remake	m²	195 4118.1.1.2405 - Unse	aled pavement mtce 112	
7/18/101 Mtce & Renewals South (22)	24087	2384 TAPUHI ROAD	WT recons	3884	3984	100		Right	Jun-19 Deeply scoured watert	Jun-19 DW1.21	DW - Truck & trailer (8 - 16m3)	hour	8 4031.1.1.2405 - Routi	ne E To cart material to site.	
7/18/101 Mtce & Renewals South (22)	24087	2384 TAPUHI ROAD	WT recons	3884	3984	100		Right	Jun-19 Deeply scoured watert	Jun-19 DW1.2	DW - Grader (12 - 14 tonne)	hour	8 4031.1.1.2405 - Routi	ne E To cut material in to backfill dra	n and form swale top.
7/18/101 Mtce & Renewals South (22)	24087	2384 TAPUHI ROAD	WT recons	3884	3984	100		Right	Jun-19 Deeply scoured watert	Jun-19 DW2.1	DW - Labourer	hour	16 4031.1.1.2405 - Routi	ne E Traffic control on site.	
7/18/101 Mtce & Renewals South (22)	24087	2384 TAPUHI ROAD	WT recons	3884	3984	100		Right	Jun-19 Deeply scoured watert	Jun-19 DW3.1	DW - Materials (PS)	each	2850 4031.1.1.2405 - Routi	ne C Quarry run for backfill.	
7/18/101 Mtce & Renewals South (22)	24087	2384 TAPUHI ROAD	WT recons	3884	3984	100		Right	Jun-19 Deeply scoured watert	Jun-19 DW3.2	DW - Materials On-Cost (15%)	Percentage	1 4031.1.1.2405 - Routi	ne Drainage Maintenance 113	
7/18/101 Mtce & Renewals South (22)	25480	2384 TAPUHI ROAD	Culvert ren	10257	10267	10		Right	Jul-19 Locating found old 300n	nm armco DR06.2	Culvert replace 375 dia 0 - 1.5m	n d metres	4011.1.1.4922 - Drain	age Renewals 213	
7/18/101 Mtce & Renewals South (22)	26168	2384 TAPUHI ROAD	Culvert nev	1878	1886	8		Left	Aug-19 Armco culvert needs rep	placing. 8n DR06.2	Culvert replace 375 dia 0 - 1.5m	n d metres	4011.1.1.4922 - Drain	age Renewals 213	
7/18/101 Mtce & Renewals South (22)	16403	2491 WAIKARE ROAD	WT Heavy	5902	5912	10		Right	Jul-19 Inlet:10:0m light water t	tabling. Ot DR02.2	Watertable Mtce - Heavy	metres	4031.1.1.2405 - Routi	ne Drainage Maintenance 113	
7/18/101 Mtce & Renewals South (22)	19383	2491 WAIKARE ROAD	Running co	13500	14000	500	5.6	30 Full Width	Jun-19 Steeper and narrow al	Jun-19 UR02.2	Unsealed - GAP20 or GAP30 Su	pp  m³	84 4015.1.1.4922 - Unse	aled Road Metaling 211	
7/18/101 Mtce & Renewals South (22)	24088	2491 WAIKARE ROAD	Rip & rema	14000	14100	100	5	Full Width	Jun-19 Rip and remake to givε	Jun-19 UR05.1	Unsealed - Rip and Remake	m²	500 4118.1.1.2405 - Unse	aled pavement mtce 112	
7/18/101 Mtce & Renewals South (22)	19382	2491 WAIKARE ROAD	Running co	11600	12100	500	5.6	30 Full Width	Jul-19 Narrow and steep alw	Jun-19 UR02.2	Unsealed - GAP20 or GAP30 Su	pp  m³	84 4015.1.1.4922 - Unse	aled Road Metaling 211	
7/18/101 Mtce & Renewals South (22)	24089	2491 WAIKARE ROAD	Rip & rema	12179	12479	300	4.8	Full Width	Jun-19 Rip and remake to elin	Jun-19 UR05.1	Unsealed - Rip and Remake	m²	1440 4118.1.1.2405 - Unse	aled pavement mtce 112	
7/18/101 Mtce & Renewals South (22)	19381	2491 WAIKARE ROAD	Running co	10300	10800	500	5.6	30 Full Width	Jun-19 Narrow hill section bec	Jun-19 UR02.2	Unsealed - GAP20 or GAP30 Su	pp  m³	36 4015.1.1.4922 - Unse	aled Road Metaling 211	
7/18/101 Mtce & Renewals South (22)	24090	2491 WAIKARE ROAD	Rip & rema	10000	10300	300	5.6	Full Width	Jun-19 To eliminate corrugati	Jun-19 UR05.1	Unsealed - Rip and Remake	m²	1680 4118.1.1.2405 - Unse	aled pavement mtce 112	
7/18/101 Mtce & Renewals South (22)	19378	2491 WAIKARE ROAD	Running co	8000	9200	1200	5.6	30 Full Width	Jun-19 This hill section corrug	Jun-19 UR02.2	Unsealed - GAP20 or GAP30 Su	ppl m³	201 4015.1.1.4922 - Unse	aled Road Metaling 211	
7/18/101 Mtce & Renewals South (22)	24091	2491 WAIKARE ROAD	Rip & rema	9300	9600	300	5.6	Full Width	Jun-19 Rip and remake to rep	Jun-19 UR05.1	Unsealed - Rip and Remake	m²	1680 4118.1.1.2405 - Unse	aled pavement mtce 112	

Contract	Dispatch   R	oad Road	Fault St	tart Er	nd L	ength Width	Dept	:h Side Pro	ogramm: Notes	Maint Note Claim Num Item Nun	nt Item Number Un	ts Claim Quar Account 2	Notes
7/18/100 Mtce & Renewals North (21)	9370	1639 DIGGERS VALLEY ROAD	Grading - x	0	21878	21878		Full Width	-8		Unsealed - Surface Grading (Routi me	•	5 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	10410	1639 DIGGERS VALLEY ROAD	Potholes -	50				Centre		May-19 UR01.1.1	Unsealed - Pothole Repairs (Routi eac	h 6 3118.1.1.240	5 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	10411	1639 DIGGERS VALLEY ROAD	Potholes -	93				Right		May-19 UR01.1.1	Unsealed - Pothole Repairs (Routi eac		5 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	10412	1639 DIGGERS VALLEY ROAD	Potholes -	160				Centre		•	Unsealed - Pothole Repairs (Routi eac		5 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	10413	1639 DIGGERS VALLEY ROAD	Potholes -	446				Right		•	Unsealed - Pothole Repairs (Routi each		5 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21) 7/18/100 Mtce & Renewals North (21)	10414 10415	1639 DIGGERS VALLEY ROAD 1639 DIGGERS VALLEY ROAD	Potholes -	594 803				Right Right		,	<ul> <li>Unsealed - Pothole Repairs (Routi each</li> <li>Unsealed - Pothole Repairs (Routi each</li> </ul>		5 - Unsealed pavement mtce 112 5 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	10415	1639 DIGGERS VALLEY ROAD	Potholes -	1013				Full Width		•	Unsealed - Pothole Repairs (Routi eac		5 - Unsealed pavement mice 112
7/18/100 Mtce & Renewals North (21)	10417	1639 DIGGERS VALLEY ROAD	Potholes -	1845				Right		•	Unsealed - Pothole Repairs (Routi each		5 - Unsealed pavement mice 112
7/18/100 Mtce & Renewals North (21)	10418	1639 DIGGERS VALLEY ROAD	Potholes -	2753				Left		•	Unsealed - Pothole Repairs (Routi each		5 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	10419	1639 DIGGERS VALLEY ROAD	Potholes -	2782				Both		·	. Unsealed - Pothole Repairs (Routi eac		5 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	10420	1639 DIGGERS VALLEY ROAD	Potholes -	2913				Full Width		May-19 UR01.1.1	Unsealed - Pothole Repairs (Routi eac	h 6 3118.1.1.240	5 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	10421	1639 DIGGERS VALLEY ROAD	Potholes -	3116				Both		May-19 UR01.1.1	Unsealed - Pothole Repairs (Routi eac	h 3 3118.1.1.240	5 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	10422	1639 DIGGERS VALLEY ROAD	Potholes -	3376				Right		•	Unsealed - Pothole Repairs (Routi eac		5 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	10423	1639 DIGGERS VALLEY ROAD	Potholes -	3572				Left		•	Unsealed - Pothole Repairs (Routi each		5 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	10424	1639 DIGGERS VALLEY ROAD	Potholes -	3626 3739				Left		•	Unsealed - Pothole Repairs (Routi each		5 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21) 7/18/100 Mtce & Renewals North (21)	10425 10426	1639 DIGGERS VALLEY ROAD 1639 DIGGERS VALLEY ROAD	Potholes -	3739 3816				Left Right		,	<ul> <li>Unsealed - Pothole Repairs (Routi each Unsealed - Pothole Routi each Unsealed -</li></ul>		5 - Unsealed pavement mtce 112 5 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	10420	1639 DIGGERS VALLEY ROAD	Potholes -	3853				Right		•	Unsealed - Pothole Repairs (Routi eac		5 - Unsealed pavement mice 112
7/18/100 Mtce & Renewals North (21)	10428	1639 DIGGERS VALLEY ROAD	Potholes -	3885				Both		•	Unsealed - Pothole Repairs (Routi each		5 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	10429	1639 DIGGERS VALLEY ROAD	Potholes -	3998				Full Width		•	Unsealed - Pothole Repairs (Routi eac		5 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	10430	1639 DIGGERS VALLEY ROAD	Potholes -	4103				Both		May-19 UR01.1.1	. Unsealed - Pothole Repairs (Routi eac	h 6 3118.1.1.240	5 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	10431	1639 DIGGERS VALLEY ROAD	Potholes -	4141				Left		May-19 UR01.1.1	Unsealed - Pothole Repairs (Routi eac	h 5 3118.1.1.240	5 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	10432	1639 DIGGERS VALLEY ROAD	Potholes -	4164				Left		May-19 UR01.1.1	Unsealed - Pothole Repairs (Routi eac	h 2 3118.1.1.240	5 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	10433	1639 DIGGERS VALLEY ROAD	Potholes -	4344				Full Width		May-19 UR01.1.1	. Unsealed - Pothole Repairs (Routi eac	h 20 3118.1.1.240	5 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	10434	1639 DIGGERS VALLEY ROAD	Potholes -	4453				Both		•	Unsealed - Pothole Repairs (Routi eac		5 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	10435	1639 DIGGERS VALLEY ROAD	Potholes -	4859				Centre		•	Unsealed - Pothole Repairs (Routi eac		5 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	10436	1639 DIGGERS VALLEY ROAD	Potholes -	5326				Right		•	Unsealed - Pothole Repairs (Routi eac		5 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	10437	1639 DIGGERS VALLEY ROAD	Potholes -	5376				Right		•	Unsealed - Pothole Repairs (Routi each		5 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	10438	1639 DIGGERS VALLEY ROAD	Potholes -	5691				Right		•	Unsealed - Pothole Repairs (Routi each		5 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	10439	1639 DIGGERS VALLEY ROAD	Potholes -	6126 8486				Full Width		•	Unsealed - Pothole Repairs (Routi each		5 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21) 7/18/100 Mtce & Renewals North (21)	10440 10441	1639 DIGGERS VALLEY ROAD 1639 DIGGERS VALLEY ROAD	Potholes -	8543				Right Left		•	<ul> <li>Unsealed - Pothole Repairs (Routi each Unsealed - Pothole Routi each Unsealed -</li></ul>		5 - Unsealed pavement mtce 112 5 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	10441	1639 DIGGERS VALLEY ROAD	Potholes -	8742				Left		•	Unsealed - Pothole Repairs (Routi eac		5 - Unsealed pavement mice 112
7/18/100 Mtce & Renewals North (21)	10443	1639 DIGGERS VALLEY ROAD	Potholes -	11286				Left		•	Unsealed - Pothole Repairs (Routi each		5 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	10444	1639 DIGGERS VALLEY ROAD	Potholes -	12143				Left		•	Unsealed - Pothole Repairs (Routi each		5 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	10445	1639 DIGGERS VALLEY ROAD	Potholes -	14792				Left		•	Unsealed - Pothole Repairs (Routi eac		5 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	10446	1639 DIGGERS VALLEY ROAD	Potholes -	14999				Left		•	. Unsealed - Pothole Repairs (Routi eac		5 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	10447	1639 DIGGERS VALLEY ROAD	Potholes -	16887				Right		May-19 UR01.1.1	Unsealed - Pothole Repairs (Routi eac	h 10 3118.1.1.240	5 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	10448	1639 DIGGERS VALLEY ROAD	Potholes -	17476				Right		May-19 UR01.1.1	Unsealed - Pothole Repairs (Routi eac	h 1 3118.1.1.240	5 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	10449	1639 DIGGERS VALLEY ROAD	Potholes -	17634				Left		May-19 UR01.1.1	. Unsealed - Pothole Repairs (Routi eac	h 4 3118.1.1.240	5 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	10451	1639 DIGGERS VALLEY ROAD	Potholes -	18221				Right		•	Unsealed - Pothole Repairs (Routi eac		5 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	10452	1639 DIGGERS VALLEY ROAD	Potholes -	18544				Left		•	Unsealed - Pothole Repairs (Routi eac		5 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	10453	1639 DIGGERS VALLEY ROAD	Grading - x	20033	21878	1845		Full Width		,	Unsealed - Surface Grading (Routi me		5 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	11061	1639 DIGGERS VALLEY ROAD	Potholes -	21404				Right		,	Unsealed - Pothole Repairs (Routi each		5 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21) 7/18/100 Mtce & Renewals North (21)	11062 11063	1639 DIGGERS VALLEY ROAD 1639 DIGGERS VALLEY ROAD	Potholes -	21441 21516				Right		•	<ul> <li>Unsealed - Pothole Repairs (Routi each</li> <li>Unsealed - Pothole Repairs (Routi each</li> </ul>		5 - Unsealed pavement mtce 112 5 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	11064	1639 DIGGERS VALLEY ROAD	Potholes -	21559				Both Left		•	Unsealed - Pothole Repairs (Routi each		5 - Unsealed pavement mice 112
7/18/100 Mtce & Renewals North (21)	11065	1639 DIGGERS VALLEY ROAD	Potholes -	21610				Left		•	Unsealed - Pothole Repairs (Routi each		5 - Unsealed pavement mice 112
7/18/100 Mtce & Renewals North (21)	11066	1639 DIGGERS VALLEY ROAD	Potholes -	21660				Left		•	Unsealed - Pothole Repairs (Routi each		5 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	11067	1639 DIGGERS VALLEY ROAD	Potholes -	21717				Both			Unsealed - Pothole Repairs (Routi eac		5 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	11068	1639 DIGGERS VALLEY ROAD	Potholes -	21745				Both			. Unsealed - Pothole Repairs (Routi eac		5 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	11069	1639 DIGGERS VALLEY ROAD	Potholes -	21014				Right		•	. Unsealed - Pothole Repairs (Routi eac		5 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	11070	1639 DIGGERS VALLEY ROAD	Potholes -	20942				Right		May-19 UR01.1.1	Unsealed - Pothole Repairs (Routi eac	h 12 3118.1.1.240	5 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	11071	1639 DIGGERS VALLEY ROAD	Potholes -	20715				Left		May-19 UR01.1.1	Unsealed - Pothole Repairs (Routi eac	h 10 3118.1.1.240	5 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	11072	1639 DIGGERS VALLEY ROAD	Potholes -	20669				Right		•	Unsealed - Pothole Repairs (Routi eac		5 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	11073	1639 DIGGERS VALLEY ROAD	Potholes -	20647				Right		•	Unsealed - Pothole Repairs (Routi eac		5 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	11074	1639 DIGGERS VALLEY ROAD	Potholes -	20590				Left		•	Unsealed - Pothole Repairs (Routi each		5 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	11075	1639 DIGGERS VALLEY ROAD	Potholes -	20465				Right		•	Unsealed - Pothole Repairs (Routi eac		5 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	11076	1639 DIGGERS VALLEY ROAD	Potholes -	20398				Right		•	Unsealed - Pothole Repairs (Routi each		5 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21) 7/18/100 Mtce & Renewals North (21)	11077 11078	1639 DIGGERS VALLEY ROAD 1639 DIGGERS VALLEY ROAD	Potholes -	20049 19879				Left Left		•	<ul> <li>Unsealed - Pothole Repairs (Routi each Unsealed - Pothole Routi each Unsealed -</li></ul>		5 - Unsealed pavement mtce 112 5 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21) 7/18/100 Mtce & Renewals North (21)	11078	1639 DIGGERS VALLEY ROAD	Running co	19879	4517	4517	3.6	30 Full Width		May-19 UR02.2	Unsealed - Potnoie Repairs (Routi each Unsealed - GAP20 or GAP30 Supp m <sup>3</sup>		2 - Unsealed Road Metaling 211
7/18/100 Mtce & Renewals North (21)	12874	1639 DIGGERS VALLEY ROAD	Remark lin	0	20042	4317	5.5	Left		•	Remark - 100mm Continuity Line kild		5 - Traffic Services Maintenance 122
7/18/100 Mtce & Renewals North (21)	12940	1639 DIGGERS VALLEY ROAD	Remark Int	10	20072			Left			Remark - GIVE WAY Int complete each		5 - Traffic Services Maintenance 122
7/18/100 Mtce & Renewals North (21)	12969	1639 DIGGERS VALLEY ROAD	Remark lin	0	20042	80		Centre		Jun-19 TD01.1.5	·		5 - Traffic Services Maintenance 122
7/18/100 Mtce & Renewals North (21)	12969	1639 DIGGERS VALLEY ROAD	Remark lin	0	20042	80		Centre		Jun-19 TD01.1.2			5 - Traffic Services Maintenance 122
7/18/100 Mtce & Renewals North (21)	13036	1639 DIGGERS VALLEY ROAD	Rail barrier	270	297			Left	Unpainted	l armco Jun-19 TF06.1.1			5 - Traffic Services Maintenance 122
7/18/100 Mtce & Renewals North (21)	13037	1639 DIGGERS VALLEY ROAD	Rail barrier	271	299			Right	Unpainted				5 - Traffic Services Maintenance 122
7/18/100 Mtce & Renewals North (21)	13045	1639 DIGGERS VALLEY ROAD	Rail barrier	4303	4330			Right	Unpainted	Jun-19 TF06.1.1	Railings Painting (Cyclic) eac	h 1 3021.1.1.240	5 - Traffic Services Maintenance 122
7/18/100 Mtce & Renewals North (21)	13046	1639 DIGGERS VALLEY ROAD	Rail barrier	4306	4334			Left	Unpainted	Jun-19 TF06.1.1			5 - Traffic Services Maintenance 122
7/18/100 Mtce & Renewals North (21)	13048	1639 DIGGERS VALLEY ROAD	Rail barrier	7370	7380			Left		Jun-19 TF06.1.1	,		5 - Traffic Services Maintenance 122
7/18/100 Mtce & Renewals North (21)	13052	1639 DIGGERS VALLEY ROAD	Rail barrier	9073	9091			Left	Paint next	cycle Jun-19 TF06.1.1	Railings Painting (Cyclic) eac	h 1 3021.1.1.240	5 - Traffic Services Maintenance 122

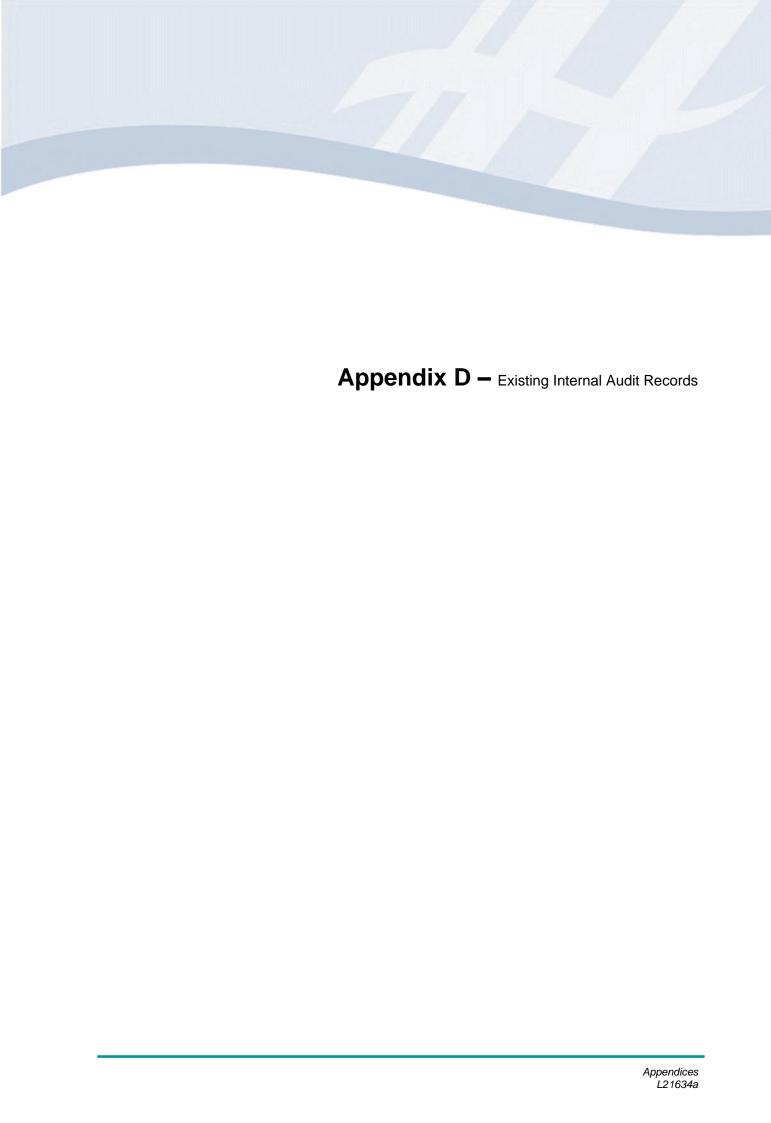
7/18/100 Mtce & Renewals North (21)													
	13054	1639 DIGGERS VALLEY ROAD	Rail barrier	10789	10792			Right		Jun-19 TF06.1.1	Railings Painting (Cyclic)	each	1 3021.1.1.2405 - Traffic Services Maintenance 122
7/18/100 Mtce & Renewals North (21)	13055	1639 DIGGERS VALLEY ROAD	Rail barrier	10809	10812			Right		Jun-19 TF06.1.1	Railings Painting (Cyclic)	each	1 3021.1.1.2405 - Traffic Services Maintenance 122
7/18/100 Mtce & Renewals North (21)	13056	1639 DIGGERS VALLEY ROAD	Rail barrier	11094	11100			Right		Jun-19 TF06.1.1	Railings Painting (Cyclic)	each	1 3021.1.1.2405 - Traffic Services Maintenance 122
7/18/100 Mtce & Renewals North (21)	13057	1639 DIGGERS VALLEY ROAD	Rail barrier	11657	11681			Left			Railings Painting (Cyclic)	each	1 3021.1.1.2405 - Traffic Services Maintenance 122
7/18/100 Mtce & Renewals North (21)	13058	1639 DIGGERS VALLEY ROAD	Rail barrier	11658	11682			Right			Railings Painting (Cyclic)	each	1 3021.1.1.2405 - Traffic Services Maintenance 122
7/18/100 Mtce & Renewals North (21)	13062	1639 DIGGERS VALLEY ROAD	Rail barrier	14845	14865			Left			Railings Painting (Cyclic)	each	1 3021.1.1.2405 - Traffic Services Maintenance 122
7/18/100 Mtce & Renewals North (21)	13063	1639 DIGGERS VALLEY ROAD	Rail barrier	16290	16307			Left		Jun-19 TF06.1.1	Railings Painting (Cyclic)	each	1 3021.1.1.2405 - Traffic Services Maintenance 122
7/18/100 Mtce & Renewals North (21)	13065	1639 DIGGERS VALLEY ROAD	Rail barrier	16517	16529			Left		Jun-19 TF06.1.1	Railings Painting (Cyclic)	each	1 3021.1.1.2405 - Traffic Services Maintenance 122
7/18/100 Mtce & Renewals North (21)	13066	1639 DIGGERS VALLEY ROAD	Rail barrier	16546	16552			Left			Railings Painting (Cyclic)	each	1 3021.1.1.2405 - Traffic Services Maintenance 122
7/18/100 Mtce & Renewals North (21)	13067	1639 DIGGERS VALLEY ROAD	Rail barrier	17175	17210			Left	Daint novt sysla		Railings Painting (Cyclic)		1 3021.1.1.2405 - Traffic Services Maintenance 122
									Paint next cycle			each	
7/18/100 Mtce & Renewals North (21)	13071	1639 DIGGERS VALLEY ROAD	Rail barrier	20992	20996			Right	Paint next cycle		Railings Painting (Cyclic)	each	1 3021.1.1.2405 - Traffic Services Maintenance 122
7/18/100 Mtce & Renewals North (21)	13072	1639 DIGGERS VALLEY ROAD	Rail barrier	20998	21000			Right	Paint next cycle	Jun-19 TF06.1.1	Railings Painting (Cyclic)	each	1 3021.1.1.2405 - Traffic Services Maintenance 122
7/18/100 Mtce & Renewals North (21)	13073	1639 DIGGERS VALLEY ROAD	Rail barrier	21006	21030			Right	Paint next cycle	Jun-19 TF06.1.1	Railings Painting (Cyclic)	each	1 3021.1.1.2405 - Traffic Services Maintenance 122
7/18/100 Mtce & Renewals North (21)	13038	1639 DIGGERS VALLEY ROAD	Rail barrier	1444	1449			Right	Needs painting.	Jun-19 TF06.1.1	Railings Painting (Cyclic)	each	1 3021.1.1.2405 - Traffic Services Maintenance 122
7/18/100 Mtce & Renewals North (21)	13039	1639 DIGGERS VALLEY ROAD	Rail barrier	1451	1455			Right	Needs painting		Railings Painting (Cyclic)	each	1 3021.1.1.2405 - Traffic Services Maintenance 122
7/18/100 Mtce & Renewals North (21)	13040	1639 DIGGERS VALLEY ROAD	Rail barrier	1456	1461			-					1 3021.1.1.2405 - Traffic Services Maintenance 122
								Right	Needs painting		Railings Painting (Cyclic)	each	
7/18/100 Mtce & Renewals North (21)	13041	1639 DIGGERS VALLEY ROAD	Rail barrier	1463	1468			Right	Recently painted		Railings Painting (Cyclic)	each	1 3021.1.1.2405 - Traffic Services Maintenance 122
7/18/100 Mtce & Renewals North (21)	15689	1639 DIGGERS VALLEY ROAD	Potholes -	2919				Both		Jun-19 UR01.1.1	Unsealed - Pothole Repair	s (Routi each	6 3118.1.1.2405 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	15690	1639 DIGGERS VALLEY ROAD	Potholes -	3384				Right		Jun-19 UR01.1.1	Unsealed - Pothole Repairs	s (Routi each	4 3118.1.1.2405 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	15691	1639 DIGGERS VALLEY ROAD	Potholes -	3550				Centre		Jun-19 UR01.1.1	Unsealed - Pothole Repair	s (Routi each	1 3118.1.1.2405 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	15692	1639 DIGGERS VALLEY ROAD	Potholes -	4010				Both	Bridge approach.		Unsealed - Pothole Repair	•	6 3118.1.1.2405 - Unsealed pavement mtce 112
									bridge approach.			•	·
7/18/100 Mtce & Renewals North (21)	15693	1639 DIGGERS VALLEY ROAD	Potholes -	4305				Right			Unsealed - Pothole Repair	•	2 3118.1.1.2405 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	15694	1639 DIGGERS VALLEY ROAD	Potholes -	4428				Both		Jun-19 UR01.1.1	Unsealed - Pothole Repair	s (Routi each	7 3118.1.1.2405 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	15695	1639 DIGGERS VALLEY ROAD	Potholes -	4870				Centre		Jun-19 UR01.1.1	Unsealed - Pothole Repairs	s (Routi each	4 3118.1.1.2405 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	13047	1639 DIGGERS VALLEY ROAD	Rail barrier	6982	7031			Right	Needs painting	Jun-19 TF06.1.1	Railings Painting (Cyclic)	each	1 3021.1.1.2405 - Traffic Services Maintenance 122
7/18/100 Mtce & Renewals North (21)	13049	1639 DIGGERS VALLEY ROAD	Rail barrier	7466	7473			Left	Needs painting		Railings Painting (Cyclic)	each	1 3021.1.1.2405 - Traffic Services Maintenance 122
7/18/100 Mtce & Renewals North (21)	13050	1639 DIGGERS VALLEY ROAD	Rail barrier	7474	7484			Left	Needs painting		Railings Painting (Cyclic)	each	1 3021.1.1.2405 - Traffic Services Maintenance 122
7/18/100 Mtce & Renewals North (21)	13051	1639 DIGGERS VALLEY ROAD	Rail barrier	8892	8919			Left	Needs painting.		Railings Painting (Cyclic)	each	1 3021.1.1.2405 - Traffic Services Maintenance 122
7/18/100 Mtce & Renewals North (21)	13053	1639 DIGGERS VALLEY ROAD	Rail barrier	9138	9141			Left	Needs painting.	Jun-19 TF06.1.1	Railings Painting (Cyclic)	each	1 3021.1.1.2405 - Traffic Services Maintenance 122
7/18/100 Mtce & Renewals North (21)	13060	1639 DIGGERS VALLEY ROAD	Rail barrier	12759	12773			Right	Needs painting.	Jun-19 TF06.1.1	Railings Painting (Cyclic)	each	1 3021.1.1.2405 - Traffic Services Maintenance 122
7/18/100 Mtce & Renewals North (21)	13061	1639 DIGGERS VALLEY ROAD	Rail barrier	14818	14829			Left	Needs painting	Jun-19 TF06.1.1	Railings Painting (Cyclic)	each	1 3021.1.1.2405 - Traffic Services Maintenance 122
7/18/100 Mtce & Renewals North (21)	15696	1639 DIGGERS VALLEY ROAD	Potholes -	14813				Left			Unsealed - Pothole Repairs		3 3118.1.1.2405 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	15697	1639 DIGGERS VALLEY ROAD	Potholes -	15935				Left			Unsealed - Pothole Repair	•	4 3118.1.1.2405 - Unsealed pavement mtce 112
											·	•	•
7/18/100 Mtce & Renewals North (21)	15698	1639 DIGGERS VALLEY ROAD	Potholes -	16459				Both			Unsealed - Pothole Repair	•	8 3118.1.1.2405 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	15699	1639 DIGGERS VALLEY ROAD	Potholes -	16598				Left			Unsealed - Pothole Repairs	s (Routi each	5 3118.1.1.2405 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	15700	1639 DIGGERS VALLEY ROAD	Rail barrier	17288				Left		Jun-19 TF06.1.1	Railings Painting (Cyclic)	each	1 3021.1.1.2405 - Traffic Services Maintenance 122
7/18/100 Mtce & Renewals North (21)	15701	1639 DIGGERS VALLEY ROAD	Potholes -	17425				Centre		Jun-19 UR01.1.1	Unsealed - Pothole Repairs	s (Routi each	4 3118.1.1.2405 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	15702	1639 DIGGERS VALLEY ROAD	Potholes -	17586				Right		Jun-19 UR01.1.1	Unsealed - Pothole Repairs	s (Routi each	4 3118.1.1.2405 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	15703	1639 DIGGERS VALLEY ROAD	Potholes -	17689				Centre			Unsealed - Pothole Repair	•	2 3118.1.1.2405 - Unsealed pavement mtce 112
	15704			17733							·	•	·
7/18/100 Mtce & Renewals North (21)		1639 DIGGERS VALLEY ROAD	Potholes -					Right			Unsealed - Pothole Repair	•	6 3118.1.1.2405 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	15705	1639 DIGGERS VALLEY ROAD	Potholes -	18627				Both			Unsealed - Pothole Repair	•	6 3118.1.1.2405 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	15706	1639 DIGGERS VALLEY ROAD	Potholes -	19309				Right	been graded	Jun-19 UR01.1.1	Unsealed - Pothole Repair:	s (Routi each	10 3118.1.1.2405 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	15707	1639 DIGGERS VALLEY ROAD	Grading - x	19355	21783	2428		Full Width		Jun-19 UR02.1.1	Unsealed - Surface Gradin	g (Routi metres	7000 3118.1.1.2405 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)								1.064	Nonderesista e en desi		Railings Painting (Cyclic)	each	1 2024 14 2425 7 15 5
	13069	1639 DIGGERS VALLEY ROAD	Rail barrier	17613	17622			reir	iveeds painting and mi	Jun-13   Lop.1.1			1 3021.1.1.2405 - Traffic Services Maintenance 122
	13069	1639 DIGGERS VALLEY ROAD	Rail barrier	17613	17622			Left	Needs painting and mi		,		1 3021.1.1.2405 - Traffic Services Maintenance 122
7/18/100 Mtce & Renewals North (21)	13068	1639 DIGGERS VALLEY ROAD	Rail barrier	17513	17622 17530			Left	Needs painting	Jun-19 TF06.1.1	Railings Painting (Cyclic)	each	1 3021.1.1.2405 - Traffic Services Maintenance 122
7/18/100 Mtce & Renewals North (21) 7/18/100 Mtce & Renewals North (21)	13068 14598	1639 DIGGERS VALLEY ROAD 1639 DIGGERS VALLEY ROAD	Rail barrier Rail barrier	17513 17283	17530			Left Left	Needs painting Needs painting	Jun-19 TF06.1.1 Jun-19 TF06.1.1	Railings Painting (Cyclic) Railings Painting (Cyclic)	each each	1 3021.1.1.2405 - Traffic Services Maintenance 122 1 3021.1.1.2405 - Traffic Services Maintenance 122
7/18/100 Mtce & Renewals North (21)	13068	1639 DIGGERS VALLEY ROAD 1639 DIGGERS VALLEY ROAD 1639 DIGGERS VALLEY ROAD	Rail barrier	17513 17283 16351				Left	Needs painting	Jun-19 TF06.1.1 Jun-19 TF06.1.1 Jun-19 TF06.1.1	Railings Painting (Cyclic)	each	1 3021.1.1.2405 - Traffic Services Maintenance 122
7/18/100 Mtce & Renewals North (21) 7/18/100 Mtce & Renewals North (21)	13068 14598	1639 DIGGERS VALLEY ROAD 1639 DIGGERS VALLEY ROAD	Rail barrier Rail barrier	17513 17283	17530			Left Left	Needs painting Needs painting	Jun-19 TF06.1.1 Jun-19 TF06.1.1 Jun-19 TF06.1.1	Railings Painting (Cyclic) Railings Painting (Cyclic)	each each	1 3021.1.1.2405 - Traffic Services Maintenance 122 1 3021.1.1.2405 - Traffic Services Maintenance 122
7/18/100 Mtce & Renewals North (21) 7/18/100 Mtce & Renewals North (21) 7/18/100 Mtce & Renewals North (21) 7/18/100 Mtce & Renewals North (21)	13068 14598 13064 13047	1639 DIGGERS VALLEY ROAD 1639 DIGGERS VALLEY ROAD 1639 DIGGERS VALLEY ROAD	Rail barrier Rail barrier Rail barrier Rail barrier	17513 17283 16351 6982	17530 16356 7031			Left Left Left Right	Needs painting Needs painting Needs paint. Needs painting	Jun-19 TF06.1.1 Jun-19 TF06.1.1 Jun-19 TF06.1.1 Jun-19 TF06.1.1	Railings Painting (Cyclic) Railings Painting (Cyclic) Railings Painting (Cyclic) Railings Painting (Cyclic)	each each each each	1 3021.1.1.2405 - Traffic Services Maintenance 122 1 3021.1.1.2405 - Traffic Services Maintenance 122 1 3021.1.1.2405 - Traffic Services Maintenance 122
7/18/100 Mtce & Renewals North (21)	13068 14598 13064 13047 13040	1639 DIGGERS VALLEY ROAD 1639 DIGGERS VALLEY ROAD 1639 DIGGERS VALLEY ROAD 1639 DIGGERS VALLEY ROAD 1639 DIGGERS VALLEY ROAD	Rail barrier Rail barrier Rail barrier Rail barrier Rail barrier	17513 17283 16351 6982 1456	17530 16356 7031 1461			Left Left Left Right Right	Needs painting Needs painting Needs paint. Needs painting Needs painting	Jun-19 TF06.1.1 Jun-19 TF06.1.1 Jun-19 TF06.1.1 Jun-19 TF06.1.1 Jun-19 TF06.1.1	Railings Painting (Cyclic)	each each each each each	1 3021.1.1.2405 - Traffic Services Maintenance 122 1 3021.1.1.2405 - Traffic Services Maintenance 122
7/18/100 Mtce & Renewals North (21)	13068 14598 13064 13047 13040 13039	1639 DIGGERS VALLEY ROAD	Rail barrier Rail barrier Rail barrier Rail barrier Rail barrier Rail barrier	17513 17283 16351 6982 1456 1451	17530 16356 7031 1461 1455			Left Left Left Right Right Right	Needs painting Needs painting Needs paint. Needs painting Needs painting Needs painting Needs painting	Jun-19 TF06.1.1 Jun-19 TF06.1.1 Jun-19 TF06.1.1 Jun-19 TF06.1.1 Jun-19 TF06.1.1 Jun-19 TF06.1.1	Railings Painting (Cyclic) Railings Painting (Cyclic) Railings Painting (Cyclic) Railings Painting (Cyclic) Railings Painting (Cyclic) Railings Painting (Cyclic)	each each each each each	1 3021.1.1.2405 - Traffic Services Maintenance 122 1 3021.1.1.2405 - Traffic Services Maintenance 122
7/18/100 Mtce & Renewals North (21)	13068 14598 13064 13047 13040 13039 13038	1639 DIGGERS VALLEY ROAD	Rail barrier Rail barrier Rail barrier Rail barrier Rail barrier Rail barrier Rail barrier	17513 17283 16351 6982 1456 1451 1444	17530 16356 7031 1461 1455 1449			Left Left Left Right Right Right Right	Needs painting Needs painting Needs paint. Needs painting Needs painting Needs painting Needs painting Needs painting	Jun-19 TF06.1.1 Jun-19 TF06.1.1 Jun-19 TF06.1.1 Jun-19 TF06.1.1 Jun-19 TF06.1.1 Jun-19 TF06.1.1 Jun-19 TF06.1.1	Railings Painting (Cyclic)	each each each each each each each	1 3021.1.1.2405 - Traffic Services Maintenance 122 1 3021.1.1.2405 - Traffic Services Maintenance 122
7/18/100 Mtce & Renewals North (21)	13068 14598 13064 13047 13040 13039 13038 13049	1639 DIGGERS VALLEY ROAD	Rail barrier	17513 17283 16351 6982 1456 1451 1444 7466	17530 16356 7031 1461 1455 1449 7473			Left Left Left Right Right Right Right Left	Needs painting Needs painting Needs paint. Needs painting Needs painting Needs painting Needs painting Needs painting Needs painting. Needs painting	Jun-19 TF06.1.1 Jun-19 TF06.1.1 Jun-19 TF06.1.1 Jun-19 TF06.1.1 Jun-19 TF06.1.1 Jun-19 TF06.1.1 Jun-19 TF06.1.1 Jun-19 TF06.1.1	Railings Painting (Cyclic)	each each each each each each each each	1 3021.1.1.2405 - Traffic Services Maintenance 122 1 3021.1.1.2405 - Traffic Services Maintenance 122
7/18/100 Mtce & Renewals North (21)	13068 14598 13064 13047 13040 13039 13038 13049 13050	1639 DIGGERS VALLEY ROAD	Rail barrier	17513 17283 16351 6982 1456 1451 1444 7466 7474	17530 16356 7031 1461 1455 1449 7473 7484			Left Left Left Right Right Right Right Right Left Left	Needs painting Needs painting Needs paint. Needs painting	Jun-19 TF06.1.1 Jun-19 TF06.1.1 Jun-19 TF06.1.1 Jun-19 TF06.1.1 Jun-19 TF06.1.1 Jun-19 TF06.1.1 Jun-19 TF06.1.1 Jun-19 TF06.1.1 Jun-19 TF06.1.1	Railings Painting (Cyclic)	each each each each each each each each	1 3021.1.1.2405 - Traffic Services Maintenance 122 1 3021.1.1.2405 - Traffic Services Maintenance 122
7/18/100 Mtce & Renewals North (21)	13068 14598 13064 13047 13040 13039 13038 13049	1639 DIGGERS VALLEY ROAD	Rail barrier	17513 17283 16351 6982 1456 1451 1444 7466	17530 16356 7031 1461 1455 1449 7473			Left Left Left Right Right Right Right Left	Needs painting Needs painting Needs paint. Needs painting Needs painting Needs painting Needs painting Needs painting Needs painting. Needs painting	Jun-19 TF06.1.1 Jun-19 TF06.1.1 Jun-19 TF06.1.1 Jun-19 TF06.1.1 Jun-19 TF06.1.1 Jun-19 TF06.1.1 Jun-19 TF06.1.1 Jun-19 TF06.1.1 Jun-19 TF06.1.1	Railings Painting (Cyclic)	each each each each each each each each	1 3021.1.1.2405 - Traffic Services Maintenance 122 1 3021.1.1.2405 - Traffic Services Maintenance 122
7/18/100 Mtce & Renewals North (21)	13068 14598 13064 13047 13040 13039 13038 13049 13050	1639 DIGGERS VALLEY ROAD	Rail barrier	17513 17283 16351 6982 1456 1451 1444 7466 7474	17530 16356 7031 1461 1455 1449 7473 7484			Left Left Left Right Right Right Right Right Left Left	Needs painting Needs painting Needs paint. Needs painting	Jun-19 TF06.1.1 Jun-19 TF06.1.1 Jun-19 TF06.1.1 Jun-19 TF06.1.1 Jun-19 TF06.1.1 Jun-19 TF06.1.1 Jun-19 TF06.1.1 Jun-19 TF06.1.1 Jun-19 TF06.1.1 Jun-19 TF06.1.1	Railings Painting (Cyclic)	each each each each each each each each	1 3021.1.1.2405 - Traffic Services Maintenance 122 1 3021.1.1.2405 - Traffic Services Maintenance 122
7/18/100 Mtce & Renewals North (21)	13068 14598 13064 13047 13040 13039 13038 13049 13050 13051 13053	1639 DIGGERS VALLEY ROAD	Rail barrier	17513 17283 16351 6982 1456 1451 1444 7466 7474 8892 9138	17530 16356 7031 1461 1455 1449 7473 7484 8919 9141			Left Left Left Right Right Right Right Left Left Left Left	Needs painting Needs painting Needs paint. Needs painting Needs painting.	Jun-19 TF06.1.1 Jun-19 TF06.1.1	Railings Painting (Cyclic)	each each each each each each each each	1 3021.1.1.2405 - Traffic Services Maintenance 122 1 3021.1.1.2405 - Traffic Services Maintenance 122
7/18/100 Mtce & Renewals North (21)	13068 14598 13064 13047 13040 13039 13038 13049 13050 13051 13053 13060	1639 DIGGERS VALLEY ROAD	Rail barrier	17513 17283 16351 6982 1456 1451 1444 7466 7474 8892 9138 12759	17530 16356 7031 1461 1455 1449 7473 7484 8919 9141 12773			Left Left Left Right Right Right Right Left Left Left Left Right	Needs painting Needs painting Needs paint. Needs painting Needs painting. Needs painting. Needs painting.	Jun-19 TF06.1.1	Railings Painting (Cyclic)	each each each each each each each each	1 3021.1.1.2405 - Traffic Services Maintenance 122 1 3021.1.1.2405 - Traffic Services Maintenance 122
7/18/100 Mtce & Renewals North (21)	13068 14598 13064 13047 13040 13039 13038 13049 13050 13051 13053 13060 13061	1639 DIGGERS VALLEY ROAD	Rail barrier	17513 17283 16351 6982 1456 1451 1444 7466 7474 8892 9138 12759 14818	17530 16356 7031 1461 1455 1449 7473 7484 8919 9141			Left Left Left Right Right Right Right Left Left Left Left Left Left Left	Needs painting Needs painting Needs paint. Needs painting Needs painting.	Jun-19 TF06.1.1	Railings Painting (Cyclic)	each each each each each each each each	1 3021.1.1.2405 - Traffic Services Maintenance 122 1 3021.1.1.2405 - Traffic Services Maintenance 122
7/18/100 Mtce & Renewals North (21)	13068 14598 13064 13047 13040 13039 13038 13049 13050 13051 13053 13060 13061 11446	1639 DIGGERS VALLEY ROAD 1833 KAUAEPEPE ROAD	Rail barrier	17513 17283 16351 6982 1456 1451 1444 7466 7474 8892 9138 12759 14818 1429	17530 16356 7031 1461 1455 1449 7473 7484 8919 9141 12773			Left Left Left Right Right Right Right Left Left Left Left Left Left Ceft Centre	Needs painting Needs painting Needs paint. Needs painting Needs painting. Needs painting. Needs painting.	Jun-19 TF06.1.1 May-19 UR01.1.1	Railings Painting (Cyclic) Unsealed - Pothole Repain	each each each each each each each each	1 3021.1.1.2405 - Traffic Services Maintenance 122 3 3118.1.1.2405 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	13068 14598 13064 13047 13040 13039 13038 13049 13050 13051 13053 13060 13061	1639 DIGGERS VALLEY ROAD	Rail barrier	17513 17283 16351 6982 1456 1451 1444 7466 7474 8892 9138 12759 14818 1429 1229	17530 16356 7031 1461 1455 1449 7473 7484 8919 9141 12773			Left Left Left Right Right Right Right Left Left Left Left Left Left Left Lef	Needs painting Needs painting Needs paint. Needs painting Needs painting. Needs painting. Needs painting.	Jun-19 TF06.1.1 May-19 UR01.1.1	Railings Painting (Cyclic)	each each each each each each each each	1 3021.1.1.2405 - Traffic Services Maintenance 122 1 3021.1.1.2405 - Traffic Services Maintenance 122
7/18/100 Mtce & Renewals North (21)	13068 14598 13064 13047 13040 13039 13038 13049 13050 13051 13053 13060 13061 11446	1639 DIGGERS VALLEY ROAD 1833 KAUAEPEPE ROAD	Rail barrier	17513 17283 16351 6982 1456 1451 1444 7466 7474 8892 9138 12759 14818 1429	17530 16356 7031 1461 1455 1449 7473 7484 8919 9141 12773			Left Left Left Right Right Right Right Left Left Left Left Left Left Ceft Centre	Needs painting Needs painting Needs paint. Needs painting Needs painting. Needs painting. Needs painting.	Jun-19 TF06.1.1 May-19 UR01.1.1 May-19 UR01.1.1	Railings Painting (Cyclic) Unsealed - Pothole Repain	each each each each each each each each	1 3021.1.1.2405 - Traffic Services Maintenance 122 3 3118.1.1.2405 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	13068 14598 13064 13047 13040 13039 13038 13049 13050 13051 13053 13060 13061 11446 11447	1639 DIGGERS VALLEY ROAD 1833 KAUAEPEPE ROAD	Rail barrier Potholes -	17513 17283 16351 6982 1456 1451 1444 7466 7474 8892 9138 12759 14818 1429 1229	17530 16356 7031 1461 1455 1449 7473 7484 8919 9141 12773 14829	53		Left Left Left Right Right Right Right Left Left Left Left Left Left Left Lef	Needs painting Needs painting Needs paint. Needs painting Needs painting. Needs painting. Needs painting.	Jun-19 TF06.1.1 May-19 UR01.1.1 May-19 UR01.1.1 May-19 UR01.1.1	Railings Painting (Cyclic) Unsealed - Pothole Repainting Unsealed - Pothole Repainting	each each each each each each each each	1 3021.1.1.2405 - Traffic Services Maintenance 122 1 3118.1.1.2405 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	13068 14598 13064 13047 13040 13039 13038 13049 13050 13051 13053 13060 13061 11446 11447 11448	1639 DIGGERS VALLEY ROAD 1833 KAUAEPEPE ROAD 1833 KAUAEPEPE ROAD 1833 KAUAEPEPE ROAD	Rail barrier Potholes -   Potholes -   Remark line	17513 17283 16351 6982 1456 1451 1444 7466 7474 8892 9138 12759 14818 1429 1229 398 0	17530 16356 7031 1461 1455 1449 7473 7484 8919 9141 12773 14829	53 1170	4.8	Left Left Left Right Right Right Right Left Left Left Left Left Left Right Left Right Left Right Left Centre Left Right Both	Needs painting Needs painting Needs paint. Needs painting Needs painting. Needs painting. Needs painting.	Jun-19 TF06.1.1 May-19 UR01.1.1 May-19 UR01.1.1 May-19 UR01.1.1 Jun-19 TF01.1.5	Railings Painting (Cyclic) Unsealed - Pothole Repain Unsealed - Pothole Repain Unsealed - Pothole Repain Remark - 75mm EL white 2	each each each each each each each each	1 3021.1.1.2405 - Traffic Services Maintenance 122 1 3118.1.1.2405 - Unsealed pavement mtce 112 1 3118.1.1.2405 - Unsealed pavement mtce 112 0.053 3021.1.1.2405 - Traffic Services Maintenance 122
7/18/100 Mtce & Renewals North (21)	13068 14598 13064 13047 13040 13039 13038 13049 13050 13051 13053 13060 13061 11446 11447 11448 14428 3933	1639 DIGGERS VALLEY ROAD 1833 KAUAEPEPE ROAD	Rail barrier Potholes -   Potholes -   Potholes -   Remark ling Running co	17513 17283 16351 6982 1456 1451 1444 7466 7474 8892 9138 12759 14818 1429 1229 398 0	17530 16356 7031 1461 1455 1449 7473 7484 8919 9141 12773 14829 27 1170	1170	4.8	Left Left Left Right Right Right Right Left Left Left Left Left Left Right Left Centre Left Right Both SO Full Width	Needs painting Needs painting Needs paint. Needs painting Needs painting. Needs painting. Needs painting.	Jun-19 TF06.1.1 May-19 UR01.1.1 May-19 UR01.1.1 May-19 UR01.1.1 Jun-19 TD01.1.5 Jun-19 UR02.2	Railings Painting (Cyclic) Unsealed - Pothole Repain Unsealed - Pothole Repain Unsealed - Pothole Repain Remark - 75mm EL white 2 Unsealed - GAP20 or GAP3	each each each each each each each each	1 3021.1.1.2405 - Traffic Services Maintenance 122 1 3118.1.1.2405 - Unsealed pavement mtce 112 1 3118.1.1.2405 - Unsealed pavement mtce 112 0.053 3021.1.1.2405 - Traffic Services Maintenance 122 66 3118.1.1.2405 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	13068 14598 13064 13047 13040 13039 13038 13049 13050 13051 13053 13060 13061 11446 11447 11448 14428 3933 9157	1639 DIGGERS VALLEY ROAD 1833 KAUAEPEPE ROAD 1834 KAUAEPEPE ROAD 1837 ROAD 1839 PAPONGA ROAD 1839 PAPONGA ROAD	Rail barrier Rotholes -   Potholes -   Potholes -   Remark line Running co Grading - x	17513 17283 16351 6982 1456 1451 1444 7466 7474 8892 9138 12759 14818 1429 1229 398 0	17530 16356 7031 1461 1455 1449 7473 7484 8919 9141 12773 14829 27 1170 5000	1170 5000	4.8	Left Left Left Right Right Right Right Left Left Left Left Left Left Right Left Centre Left Right Both 30 Full Width Full Width	Needs painting Needs painting Needs paint. Needs painting Needs painting. Needs painting. Needs painting. Needs painting	Jun-19 TF06.1.1 May-19 UR01.1.1 May-19 UR01.1.1 May-19 UR01.1.1 Jun-19 TD01.1.5 Jun-19 UR02.2 May-19 UR02.1.1	Railings Painting (Cyclic) Unsealed - Pothole Repain Unsealed - Pothole Repain Unsealed - Pothole Repain Remark - 75mm EL white 2 Unsealed - GAP20 or GAP3 Unsealed - Surface Gradin	each each each each each each each each	1 3021.1.1.2405 - Traffic Services Maintenance 122 3 3118.1.1.2405 - Unsealed pavement mtce 112 1 3118.1.1.2405 - Unsealed pavement mtce 112 0.053 3021.1.1.2405 - Traffic Services Maintenance 122 66 3118.1.1.2405 - Unsealed pavement mtce 112 5000 3118.1.1.2405 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	13068 14598 13064 13047 13040 13039 13038 13049 13050 13051 13053 13060 13061 11446 11447 11448 14428 3933 9157 9368	1639 DIGGERS VALLEY ROAD 1833 KAUAEPEPE ROAD 12129 PAPONGA ROAD 2129 PAPONGA ROAD 2129 PAPONGA ROAD	Rail barrier Rotholes -   Potholes -   Remark line Running co Grading - x Grading - x	17513 17283 16351 6982 1456 1451 1444 7466 7474 8892 9138 12759 14818 1429 1229 398 0 0	17530 16356 7031 1461 1455 1449 7473 7484 8919 9141 12773 14829 27 1170	1170	4.8	Left Left Left Right Right Right Right Left Left Left Left Left Right Left Centre Left Right Both 30 Full Width Full Width	Needs painting Needs painting Needs paint. Needs painting Needs painting. Needs painting. Needs painting. Needs painting	Jun-19 TF06.1.1 May-19 UR01.1.1 May-19 UR01.1.1 May-19 UR01.1.1 Jun-19 TD01.1.5 Jun-19 UR02.2 May-19 UR02.1.1 May-19 UR02.1.1	Railings Painting (Cyclic) Unsealed - Pothole Repain Unsealed - Pothole Repain Unsealed - Pothole Repain Unsealed - GAP20 or GAP3 Unsealed - Surface Gradin Unsealed - Surface Gradin	each each each each each each each each	1 3021.1.1.2405 - Traffic Services Maintenance 122 1 3021.1.1.2405 - Unsealed pavement mtce 112 1 3118.1.1.2405 - Unsealed pavement mtce 112 0.053 3021.1.1.2405 - Traffic Services Maintenance 122 66 3118.1.1.2405 - Unsealed pavement mtce 112 5000 3118.1.1.2405 - Unsealed pavement mtce 112 2804 3118.1.1.2405 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	13068 14598 13064 13047 13040 13039 13038 13049 13050 13051 13053 13060 13061 11446 11447 11448 14428 3933 9157	1639 DIGGERS VALLEY ROAD 1833 KAUAEPEPE ROAD 1834 KAUAEPEPE ROAD 1837 ROAD 1839 PAPONGA ROAD 1839 PAPONGA ROAD	Rail barrier Rotholes -   Potholes -   Potholes -   Remark line Running co Grading - x	17513 17283 16351 6982 1456 1451 1444 7466 7474 8892 9138 12759 14818 1429 1229 398 0	17530 16356 7031 1461 1455 1449 7473 7484 8919 9141 12773 14829 27 1170 5000	1170 5000	4.8	Left Left Left Right Right Right Right Left Left Left Left Left Left Right Left Centre Left Right Both 30 Full Width Full Width	Needs painting Needs painting Needs paint. Needs painting Needs painting. Needs painting. Needs painting. Needs painting	Jun-19 TF06.1.1 May-19 UR01.1.1 May-19 UR01.1.1 May-19 UR01.1.1 Jun-19 TD01.1.5 Jun-19 UR02.2 May-19 UR02.1.1 May-19 UR02.1.1	Railings Painting (Cyclic) Unsealed - Pothole Repain Unsealed - Pothole Repain Unsealed - Pothole Repain Remark - 75mm EL white 2 Unsealed - GAP20 or GAP3 Unsealed - Surface Gradin	each each each each each each each each	1 3021.1.1.2405 - Traffic Services Maintenance 122 3 3118.1.1.2405 - Unsealed pavement mtce 112 1 3118.1.1.2405 - Unsealed pavement mtce 112 0.053 3021.1.1.2405 - Traffic Services Maintenance 122 66 3118.1.1.2405 - Unsealed pavement mtce 112 5000 3118.1.1.2405 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	13068 14598 13064 13047 13040 13039 13038 13049 13050 13051 13053 13060 13061 11446 11447 11448 14428 3933 9157 9368	1639 DIGGERS VALLEY ROAD 1833 KAUAEPEPE ROAD 12129 PAPONGA ROAD 2129 PAPONGA ROAD 2129 PAPONGA ROAD	Rail barrier Rotholes -   Potholes -   Remark line Running co Grading - x Grading - x	17513 17283 16351 6982 1456 1451 1444 7466 7474 8892 9138 12759 14818 1429 1229 398 0 0	17530 16356 7031 1461 1455 1449 7473 7484 8919 9141 12773 14829 27 1170 5000	1170 5000	4.8	Left Left Left Right Right Right Right Left Left Left Left Left Right Left Centre Left Right Both 30 Full Width Full Width	Needs painting Needs painting Needs paint. Needs painting Needs painting. Needs painting. Needs painting. Needs painting	Jun-19 TF06.1.1 May-19 UR01.1.1 May-19 UR01.1.1 May-19 UR01.1.1 Jun-19 TD01.1.5 Jun-19 UR02.2 May-19 UR02.1.1 May-19 UR02.1.1 May-19 UR02.1.1 May-19 UR02.1.1	Railings Painting (Cyclic) Unsealed - Pothole Repain Unsealed - Pothole Repain Unsealed - Pothole Repain Unsealed - GAP20 or GAP3 Unsealed - Surface Gradin Unsealed - Surface Gradin	each each each each each each each each	1 3021.1.1.2405 - Traffic Services Maintenance 122 1 3021.1.1.2405 - Unsealed pavement mtce 112 1 3118.1.1.2405 - Unsealed pavement mtce 112 0.053 3021.1.1.2405 - Traffic Services Maintenance 122 66 3118.1.1.2405 - Unsealed pavement mtce 112 5000 3118.1.1.2405 - Unsealed pavement mtce 112 2804 3118.1.1.2405 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	13068 14598 13064 13047 13040 13039 13038 13049 13050 13051 13053 13060 13061 11446 11447 11448 14428 3933 9157 9368 10405	1639 DIGGERS VALLEY ROAD 1833 KAUAEPEPE ROAD 12129 PAPONGA ROAD 2129 PAPONGA ROAD	Rail barrier Rotholes -   Potholes -   Remark line Running co Grading - x Grading - x Potholes -   Potholes -   Potholes -	17513 17283 16351 6982 1456 1451 1444 7466 7474 8892 9138 12759 14818 1429 1229 398 0 0 12800 10453 11267	17530 16356 7031 1461 1455 1449 7473 7484 8919 9141 12773 14829 27 1170 5000	1170 5000	4.8	Left Left Left Right Right Right Right Left Left Left Left Left Right Left Centre Left Right Both 30 Full Width Full Width Full Width Left Right	Needs painting Needs painting Needs paint. Needs painting Needs painting. Needs painting. Needs painting. Needs painting	Jun-19 TF06.1.1 May-19 UR01.1.1 May-19 UR01.1.1 Jun-19 TD01.1.5 Jun-19 UR02.2 May-19 UR02.1.1 May-19 UR02.1.1 May-19 UR02.1.1 May-19 UR01.1.1 May-19 UR01.1.1	Railings Painting (Cyclic) Unsealed - Pothole Repain Unsealed - Pothole Repain Unsealed - GAP20 or GAP3 Unsealed - Surface Gradin Unsealed - Surface Gradin Unsealed - Pothole Repain Unsealed - Pothole Repain Unsealed - Pothole Repain	each each each each each each each each	1 3021.1.1.2405 - Traffic Services Maintenance 122 2 3 3118.1.1.2405 - Unsealed pavement mtce 112 1 3118.1.1.2405 - Unsealed pavement mtce 112 0.053 3021.1.1.2405 - Unsealed pavement mtce 112 5 3118.1.1.2405 - Unsealed pavement mtce 112 3 3118.1.1.2405 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	13068 14598 13064 13047 13040 13039 13038 13049 13050 13051 13053 13060 13061 11446 11447 11448 14428 3933 9157 9368 10405 10407 10408	1639 DIGGERS VALLEY ROAD 1833 KAUAEPEPE ROAD 1833 KAUAEPEPE ROAD 1833 KAUAEPEPE ROAD 1833 KAUAEPEPE ROAD 2129 PAPONGA ROAD	Rail barrier Rotholes -   Potholes -   Potholes -   Remark line Running cc Grading - x Grading - x Potholes -   Potholes -   Potholes -   Potholes -   Potholes -	17513 17283 16351 6982 1456 1451 1444 7466 7474 8892 9138 12759 14818 1429 1229 398 0 0 12800 10453 11267 11330	17530 16356 7031 1461 1455 1449 7473 7484 8919 9141 12773 14829 27 1170 5000	1170 5000	4.8	Left Left Left Right Right Right Right Left Left Left Left Left Right Left Centre Left Right Both 30 Full Width Full Width Left Right Left Left Right Left	Needs painting Needs painting Needs paint. Needs painting Needs painting. Needs painting. Needs painting. Needs painting	Jun-19 TF06.1.1 May-19 UR01.1.1 May-19 UR01.1.1 May-19 UR01.1.1 Jun-19 TD01.1.5 Jun-19 UR02.2 May-19 UR02.1.1 May-19 UR02.1.1 May-19 UR02.1.1 May-19 UR01.1.1 May-19 UR01.1.1 May-19 UR01.1.1	Railings Painting (Cyclic) Unsealed - Pothole Repain Unsealed - Pothole Repain Unsealed - Fothole Repain Unsealed - Surface Gradin Unsealed - Surface Gradin Unsealed - Pothole Repain	each each each each each each each each	1 3021.1.1.2405 - Traffic Services Maintenance 122 2 3 3118.1.1.2405 - Unsealed pavement mtce 112 1 3118.1.1.2405 - Unsealed pavement mtce 112 1 3118.1.1.2405 - Unsealed pavement mtce 112 5 3118.1.1.2405 - Unsealed pavement mtce 112 3 3118.1.1.2405 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	13068 14598 13064 13047 13040 13039 13038 13049 13050 13051 13053 13060 13061 11446 11447 11448 14428 3933 9157 9368 10405 10407 10408 10409	1639 DIGGERS VALLEY ROAD 1833 KAUAEPEPE ROAD 1833 KAUAEPEPE ROAD 1833 KAUAEPEPE ROAD 1833 KAUAEPEPE ROAD 2129 PAPONGA ROAD	Rail barrier Rotholes -   Potholes -   Potholes -   Remark line Running cc Grading - x Grading - x Potholes -   Potholes -   Potholes -   Potholes -   Potholes -   Sign face cl	17513 17283 16351 6982 1456 1451 1444 7466 7474 8892 9138 12759 14818 1429 1229 398 0 0 12800 10453 11267 11330 13439	17530 16356 7031 1461 1455 1449 7473 7484 8919 9141 12773 14829 27 1170 5000	1170 5000	4.8	Left Left Left Right Right Right Right Left Left Left Left Left Right Left Centre Left Right Both 30 Full Width Full Width Full Width Left Right Left Left	Needs painting Needs painting Needs paint. Needs painting Needs painting. Needs painting. Needs painting. Needs painting	Jun-19 TF06.1.1 May-19 UR01.1.1 May-19 UR01.1.1 May-19 UR01.1.1 May-19 UR02.2 May-19 UR02.1.1 May-19 UR02.1.1 May-19 UR01.1.1	Railings Painting (Cyclic) Unsealed - Pothole Repain Unsealed - Pothole Repain Unsealed - Pothole Repain Unsealed - Surface Gradin Unsealed - Surface Gradin Unsealed - Pothole Repain	each each each each each each each each	1 3021.1.1.2405 - Traffic Services Maintenance 122 3 3118.1.1.2405 - Unsealed pavement mtce 112 1 3118.1.1.2405 - Unsealed pavement mtce 112 0.053 3021.1.1.2405 - Traffic Services Maintenance 122 66 3118.1.1.2405 - Unsealed pavement mtce 112 5000 3118.1.1.2405 - Unsealed pavement mtce 112 3 3118.1.1.2405 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	13068 14598 13064 13047 13040 13039 13038 13049 13050 13051 13053 13060 13061 11446 11447 11448 14428 3933 9157 9368 10405 10407 10408 10409	1639 DIGGERS VALLEY ROAD 1833 KAUAEPEPE ROAD 1833 KAUAEPEPE ROAD 1833 KAUAEPEPE ROAD 1833 KAUAEPEPE ROAD 2129 PAPONGA ROAD	Rail barrier Potholes -   Potholes -   Potholes -   Remark lin Running co Grading - x Grading - x Potholes -   Potholes -   Potholes -   Potholes -   Sign face cl Sign face cl	17513 17283 16351 6982 1456 1451 1444 7466 7474 8892 9138 12759 14818 1429 1229 398 0 0 12800 10453 11267 11330 13439 13439	17530 16356 7031 1461 1455 1449 7473 7484 8919 9141 12773 14829 27 1170 5000	1170 5000	4.8	Left Left Left Right Right Right Right Left Left Left Left Right Left Centre Left Right Both 30 Full Width Full Width Full Width Left Right Left Left Right Left Left Left Left Left Left Left Lef	Needs painting Needs painting Needs paint. Needs painting Needs painting. Needs painting. Needs painting. Needs painting	Jun-19 TF06.1.1 May-19 UR01.1.1 May-19 UR01.1.1 May-19 UR01.1.1 May-19 UR02.2 May-19 UR02.1.1 May-19 UR02.1.1 May-19 UR01.1.1	Railings Painting (Cyclic) Unsealed - Pothole Repain Unsealed - Pothole Repain Unsealed - Pothole Repain Unsealed - Surface Gradin Unsealed - Surface Gradin Unsealed - Pothole Repain	each each each each each each each each	1 3021.1.1.2405 - Traffic Services Maintenance 122 3 3118.1.1.2405 - Unsealed pavement mtce 112 1 3118.1.1.2405 - Unsealed pavement mtce 112 0.053 3021.1.1.2405 - Unsealed pavement mtce 112 5000 3118.1.1.2405 - Unsealed pavement mtce 112 3 3118.1.1.2405 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	13068 14598 13064 13047 13040 13039 13038 13049 13050 13051 13053 13060 13061 11446 11447 11448 14428 3933 9157 9368 10405 10407 10408 10409 10409 11738	1639 DIGGERS VALLEY ROAD 1833 KAUAEPEPE ROAD 1833 KAUAEPEPE ROAD 1833 KAUAEPEPE ROAD 1833 KAUAEPEPE ROAD 2129 PAPONGA ROAD	Rail barrier Rotholes -   Potholes -   Potholes -   Remark lin Running co Grading - x Grading - x Potholes -   Potholes -   Potholes -   Sign face cl Sign face cl	17513 17283 16351 6982 1456 1451 1444 7466 7474 8892 9138 12759 14818 1429 1229 398 0 0 12800 10453 11267 11330 13439 13439 6696	17530 16356 7031 1461 1455 1449 7473 7484 8919 9141 12773 14829 27 1170 5000 15604	1170 5000 2804		Left Left Left Right Right Right Right Right Left Left Left Left Right Left Centre Left Right Both 30 Full Width Full Width Full Width Left Right Left Right Left Right Both	Needs painting Needs painting Needs paint. Needs painting Needs painting. Needs painting. Needs painting. Needs painting	Jun-19 TF06.1.1 May-19 UR01.1.1 May-19 UR01.1.1 May-19 UR01.1.1 Jun-19 TD01.1.5 Jun-19 UR02.2 May-19 UR02.1.1 May-19 UR02.1.1 May-19 UR01.1.1	Railings Painting (Cyclic) Unsealed - Pothole Repain: Unsealed - Pothole Repain: Unsealed - Pothole Repain: Unsealed - Surface Gradin, Unsealed - Surface Gradin, Unsealed - Pothole Repain:	each each each each each each each each	1 3021.1.1.2405 - Traffic Services Maintenance 122 3 3118.1.1.2405 - Unsealed pavement mtce 112 1 3118.1.1.2405 - Unsealed pavement mtce 112 0.053 3021.1.1.2405 - Traffic Services Maintenance 122 6 3118.1.1.2405 - Unsealed pavement mtce 112 200 3118.1.1.2405 - Unsealed pavement mtce 112 3 3118.1.1.2405 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	13068 14598 13064 13047 13040 13039 13038 13049 13050 13051 13053 13060 13061 11446 11447 11448 14428 3933 9157 9368 10405 10407 10408 10409	1639 DIGGERS VALLEY ROAD 1833 KAUAEPEPE ROAD 1833 KAUAEPEPE ROAD 1833 KAUAEPEPE ROAD 1833 KAUAEPEPE ROAD 2129 PAPONGA ROAD	Rail barrier Potholes -   Potholes -   Potholes -   Remark lin Running co Grading - x Grading - x Potholes -   Potholes -   Potholes -   Potholes -   Sign face cl Sign face cl	17513 17283 16351 6982 1456 1451 1444 7466 7474 8892 9138 12759 14818 1429 1229 398 0 0 12800 10453 11267 11330 13439 13439	17530 16356 7031 1461 1455 1449 7473 7484 8919 9141 12773 14829 27 1170 5000	1170 5000	4.8	Left Left Left Right Right Right Right Left Left Left Left Right Left Centre Left Right Both 30 Full Width Full Width Full Width Left Right Left Left Right Left Left Left Left Left Left Left Lef	Needs painting Needs painting Needs paint. Needs painting Needs painting. Needs painting. Needs painting. Needs painting	Jun-19 TF06.1.1 May-19 UR01.1.1 May-19 UR01.1.1 May-19 UR01.1.1 May-19 UR02.2 May-19 UR02.1.1 May-19 UR02.1.1 May-19 UR01.1.1	Railings Painting (Cyclic) Unsealed - Pothole Repain Unsealed - Pothole Repain Unsealed - Pothole Repain Unsealed - Surface Gradin Unsealed - Surface Gradin Unsealed - Pothole Repain	each each each each each each each each	1 3021.1.1.2405 - Traffic Services Maintenance 122 3 3118.1.1.2405 - Unsealed pavement mtce 112 1 3118.1.1.2405 - Unsealed pavement mtce 112 0.053 3021.1.1.2405 - Unsealed pavement mtce 112 5000 3118.1.1.2405 - Unsealed pavement mtce 112 3 3118.1.1.2405 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	13068 14598 13064 13047 13040 13039 13038 13049 13050 13051 13053 13060 13061 11446 11447 11448 14428 3933 9157 9368 10405 10407 10408 10409 10409 11738	1639 DIGGERS VALLEY ROAD 1833 KAUAEPEPE ROAD 1833 KAUAEPEPE ROAD 1833 KAUAEPEPE ROAD 1833 KAUAEPEPE ROAD 2129 PAPONGA ROAD	Rail barrier Rotholes -   Potholes -   Potholes -   Remark lin Running co Grading - x Grading - x Potholes -   Potholes -   Potholes -   Sign face cl Sign face cl	17513 17283 16351 6982 1456 1451 1444 7466 7474 8892 9138 12759 14818 1429 1229 398 0 0 12800 10453 11267 11330 13439 13439 6696	17530 16356 7031 1461 1455 1449 7473 7484 8919 9141 12773 14829 27 1170 5000 15604	1170 5000 2804		Left Left Left Right Right Right Right Right Left Left Left Left Right Left Centre Left Right Both 30 Full Width Full Width Full Width Left Right Left Right Left Right Both	Needs painting Needs painting Needs paint. Needs painting Needs painting. Needs painting. Needs painting. Needs painting	Jun-19 TF06.1.1 May-19 UR01.1.1 May-19 UR01.1.1 May-19 UR01.1.1 Jun-19 TV02.2 May-19 UR02.1.1 May-19 UR02.1.1 May-19 UR01.1.1	Railings Painting (Cyclic) Unsealed - Pothole Repain: Unsealed - Pothole Repain: Unsealed - Pothole Repain: Unsealed - Surface Gradin, Unsealed - Surface Gradin, Unsealed - Pothole Repain:	each each each each each each each each	1 3021.1.1.2405 - Traffic Services Maintenance 122 3 3118.1.1.2405 - Unsealed pavement mtce 112 1 3118.1.1.2405 - Unsealed pavement mtce 112 0.053 3021.1.1.2405 - Traffic Services Maintenance 122 6 3118.1.1.2405 - Unsealed pavement mtce 112 200 3118.1.1.2405 - Unsealed pavement mtce 112 3 3118.1.1.2405 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	13068 14598 13064 13047 13040 13039 13038 13049 13050 13051 13053 13060 13061 11446 11447 11448 14428 3933 9157 9368 10405 10407 10408 10409 10409 11738 11739 11741	1639 DIGGERS VALLEY ROAD 1833 KAUAEPEPE ROAD 1833 KAUAEPEPE ROAD 1833 KAUAEPEPE ROAD 1833 KAUAEPEPE ROAD 2129 PAPONGA ROAD	Rail barrier Rotholes -   Potholes -   Potholes -   Remark lini Running co Grading - x Grading - x Potholes -   Potholes -   Sign face cl Sign face cl Potholes -   Running co Potholes -	17513 17283 16351 6982 1456 1451 1444 7466 7474 8892 9138 12759 14818 1429 1229 398 0 0 12800 10453 11267 11330 13439 13439 6696 4000 11261	17530 16356 7031 1461 1455 1449 7473 7484 8919 9141 12773 14829 27 1170 5000 15604	1170 5000 2804		Left Left Left Right Right Right Right Right Left Left Left Left Right Left Centre Left Right Both 30 Full Width Full Width Left Right Left Right Left Right Soth Source Right	Needs painting Needs painting Needs paint. Needs painting Needs painting. Needs painting. Needs painting. Needs painting	Jun-19 TF06.1.1 May-19 UR01.1.1 May-19 UR01.1.1 May-19 UR01.1.1 May-19 UR02.2 May-19 UR01.1.1 Jun-19 UR02.2 Jun-19 UR01.1.1	Railings Painting (Cyclic) Unsealed - Pothole Repain Unsealed - Pothole Repain Unsealed - Pothole Repain Unsealed - Surface Gradin Unsealed - Surface Gradin Unsealed - Pothole Repain	each each each each each each each each	1 3021.1.1.2405 - Traffic Services Maintenance 122 3 3118.1.1.2405 - Unsealed pavement mtce 112 1 3118.1.1.2405 - Unsealed pavement mtce 112 0.053 3021.1.1.2405 - Unsealed pavement mtce 112 5000 3118.1.1.2405 - Unsealed pavement mtce 112 2804 3118.1.1.2405 - Unsealed pavement mtce 112 3 3118.1.1.2405 - Unsealed pavement mtce 112 4 3021.1.1.2405 - Unsealed pavement mtce 112 4 3015.1.1.4922 - Unsealed pavement mtce 112 4 3015.1.1.4920 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	13068 14598 13064 13047 13040 13039 13038 13049 13050 13051 13053 13060 13061 11446 11447 11448 14428 3933 9157 9368 10405 10407 10408 10409 10409 11738 11739	1639 DIGGERS VALLEY ROAD 1833 KAUAEPEPE ROAD 2129 PAPONGA ROAD	Rail barrier Rotholes -   Potholes -   Potholes -   Remark lini Running co Grading - x Grading - x Potholes -   Potholes -   Potholes -   Sign face cl Sign face cl Potholes -   Running co	17513 17283 16351 6982 1456 1451 1444 7466 7474 8892 9138 12759 14818 1429 1229 398 0 0 12800 10453 11267 11330 13439 13439 6696 4000	17530 16356 7031 1461 1455 1449 7473 7484 8919 9141 12773 14829 27 1170 5000 15604	1170 5000 2804		Left Left Left Right Right Right Right Right Left Left Left Left Right Left Centre Left Right Both 30 Full Width Full Width Left Right Left Right Left Right South Rould Width Full Width Left Right Left Left Right Left Left Right Left Left Left Left Routh South South	Needs painting Needs painting Needs paint. Needs painting Needs painting. Needs painting. Needs painting. Needs painting	Jun-19 TF06.1.1 May-19 UR01.1.1 May-19 UR01.1.1 May-19 UR01.1.1 Jun-19 TD01.1.5 Jun-19 UR02.2 May-19 UR01.1.1 Jun-19 UR01.1.1 Jun-19 UR01.1.1 Jun-19 UR01.1.1 Jun-19 UR01.1.1 Jun-19 UR01.1.1	Railings Painting (Cyclic) Unsealed - Pothole Repain Unsealed - Pothole Repain Unsealed - Pothole Repain Unsealed - Surface Gradin Unsealed - Surface Gradin Unsealed - Pothole Repain	each each each each each each each each	1 3021.1.1.2405 - Traffic Services Maintenance 122 3 3118.1.1.2405 - Unsealed pavement mtce 112 1 3118.1.1.2405 - Unsealed pavement mtce 112 0.053 3021.1.1.2405 - Unsealed pavement mtce 112 5000 3118.1.1.2405 - Unsealed pavement mtce 112 3 3118.1.1.2405 - Unsealed pavement mtce 112

7/19/100 Mtss & Ronowals North (21)	14420	2129 PAPONGA ROAD Remark line	0	21	61		Both		lun 10 TD01 1 F	Romark 75mm El white 220mics kilometre	0.061 3021.1.1.2405 - Traffic Services Maintenance 122
7/18/100 Mtce & Renewals North (21) 7/18/100 Mtce & Renewals North (21)	14429 14694		0	31 15660	15660		Full Width		Jun-19 1001.1.5 Jun-19 UR02.1.1	Remark - 75mm EL white 220micr kilometre Unsealed - Surface Grading (Routi metres	15660 3118.1.1.2405 - Trainic Services Maintenance 122
		9	-		15000					• •	·
7/18/100 Mtce & Renewals North (21)	13579	2129 PAPONGA ROAD Rail barrier	1136	1163			Right		Jun-19 TF06.1.1	Railings Painting (Cyclic) each	1 3021.1.1.2405 - Traffic Services Maintenance 122
7/18/100 Mtce & Renewals North (21)	13580	2129 PAPONGA ROAD Rail barrier	1256	1269			Right		Jun-19 TF06.1.1	Railings Painting (Cyclic) each	1 3021.1.1.2405 - Traffic Services Maintenance 122
7/18/100 Mtce & Renewals North (21)	13581	2129 PAPONGA ROAD Rail barrier	5420	5435			Centre			Railings Painting (Cyclic) each	1 3021.1.1.2405 - Traffic Services Maintenance 122
7/18/100 Mtce & Renewals North (21)	13582	2129 PAPONGA ROAD Rail barrier	5564	5593			Right		Jun-19 TF06.1.1	Railings Painting (Cyclic) each	1 3021.1.1.2405 - Traffic Services Maintenance 122
7/18/100 Mtce & Renewals North (21)	13584	2129 PAPONGA ROAD Rail barrier	6679	6686			Right		Jun-19 TF06.1.1	Railings Painting (Cyclic) each	1 3021.1.1.2405 - Traffic Services Maintenance 122
7/18/100 Mtce & Renewals North (21)	13585	2129 PAPONGA ROAD Rail barrier	7195	7203			Right		Jun-19 TF06.1.1	Railings Painting (Cyclic) each	1 3021.1.1.2405 - Traffic Services Maintenance 122
7/18/100 Mtce & Renewals North (21)	13586	2129 PAPONGA ROAD Rail barrier	7643	7662			Right		Jun-19 TF06.1.1	Railings Painting (Cyclic) each	1 3021.1.1.2405 - Traffic Services Maintenance 122
7/18/100 Mtce & Renewals North (21)	13587	2129 PAPONGA ROAD Rail barrier	8284	8298			Left		Jun-19 TF06.1.1	Railings Painting (Cyclic) each	1 3021.1.1.2405 - Traffic Services Maintenance 122
7/18/100 Mtce & Renewals North (21)	13588	2129 PAPONGA ROAD Rail barrier	8411	8424			Left		Jun-19 TF06.1.1	Railings Painting (Cyclic) each	1 3021.1.1.2405 - Traffic Services Maintenance 122
7/18/100 Mtce & Renewals North (21)	14715	2129 PAPONGA ROAD Potholes -	12566				Right		Jun-19 UR01.1.1	Unsealed - Pothole Repairs (Routi each	3 3118.1.1.2405 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	14716	2129 PAPONGA ROAD Potholes -	11902				Right		Jun-19 UR01.1.1	Unsealed - Pothole Repairs (Routi each	1 3118.1.1.2405 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	14717	2129 PAPONGA ROAD Potholes -	11847				Right			Unsealed - Pothole Repairs (Routi each	3 3118.1.1.2405 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	14718	2129 PAPONGA ROAD Potholes -	11240				Right		Jun-19 UR01.1.1	Unsealed - Pothole Repairs (Routi each	4 3118.1.1.2405 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	14719	2129 PAPONGA ROAD Potholes -	11181				Right			Unsealed - Pothole Repairs (Routi each	5 3118.1.1.2405 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	14720	2129 PAPONGA ROAD Potholes -	8928				Both			Unsealed - Pothole Repairs (Routi each	6 3118.1.1.2405 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	14721	2129 PAPONGA ROAD Potholes -	8292				Right			Unsealed - Pothole Repairs (Routi each	8 3118.1.1.2405 - Unsealed pavement mice 112
	14721		8104				-			• •	· · · · · · · · · · · · · · · · · · ·
7/18/100 Mtce & Renewals North (21)			7569				Right			Unsealed - Pothole Repairs (Routi each	2 3118.1.1.2405 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	14723	2129 PAPONGA ROAD Potholes -					Left		Jun-19 UR01.1.1	Unsealed - Pothole Repairs (Routi each	2 3118.1.1.2405 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	14724	2129 PAPONGA ROAD Potholes -	6130				Right			Unsealed - Pothole Repairs (Routi each	4 3118.1.1.2405 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	14725	2129 PAPONGA ROAD Potholes -	4178				Right		Jun-19 UR01.1.1	Unsealed - Pothole Repairs (Routi each	10 3118.1.1.2405 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	14726	2129 PAPONGA ROAD Potholes -	3725				Left		Jun-19 UR01.1.1	Unsealed - Pothole Repairs (Routi each	7 3118.1.1.2405 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	14727	2129 PAPONGA ROAD Potholes -	3177				Right			Unsealed - Pothole Repairs (Routi each	20 3118.1.1.2405 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	14728	2129 PAPONGA ROAD Potholes -	2421				Left		Jun-19 UR01.1.1	Unsealed - Pothole Repairs (Routi each	10 3118.1.1.2405 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	13589	2129 PAPONGA ROAD Rail barrier	8775	8787			Right		Jun-19 TF06.1.1	Railings Painting (Cyclic) each	1 3021.1.1.2405 - Traffic Services Maintenance 122
7/18/100 Mtce & Renewals North (21)	13590	2129 PAPONGA ROAD Rail barrier	8787	8792			Right		Jun-19 TF06.1.1	Railings Painting (Cyclic) each	1 3021.1.1.2405 - Traffic Services Maintenance 122
7/18/100 Mtce & Renewals North (21)	13591	2129 PAPONGA ROAD Rail barrier	8877	8901			Right		Jun-19 TF06.1.1	Railings Painting (Cyclic) each	1 3021.1.1.2405 - Traffic Services Maintenance 122
7/18/100 Mtce & Renewals North (21)	13593	2129 PAPONGA ROAD Rail barrier	14815	14823			Left	Recentl painted	Jun-19 TF06.1.1	Railings Painting (Cyclic) each	1 3021.1.1.2405 - Traffic Services Maintenance 122
7/18/100 Mtce & Renewals North (21)	14714	2129 PAPONGA ROAD Grading - x	0	4000	4000		Full Width	Hit and miss clusters.	Jul-19 UR02.1.1	Unsealed - Surface Grading (Routi metres	4000 3118.1.1.2405 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	10502	2278 RUNARUNA ROAD Potholes -	555				Left		May-19 UR01.1.1	Unsealed - Pothole Repairs (Routi each	2 3118.1.1.2405 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	10503	2278 RUNARUNA ROAD Potholes -	964				Right		May-19 UR01.1.1	Unsealed - Pothole Repairs (Routi each	2 3118.1.1.2405 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	10504	2278 RUNARUNA ROAD Potholes -	1065				Left		May-19 UR01.1.1	Unsealed - Pothole Repairs (Routi each	2 3118.1.1.2405 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	10505	2278 RUNARUNA ROAD Potholes -	1646				Left		May-19 UR01.1.1	Unsealed - Pothole Repairs (Routi each	4 3118.1.1.2405 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	10506	2278 RUNARUNA ROAD Potholes -	1821				Left		May-19 UR01.1.1	Unsealed - Pothole Repairs (Routi each	1 3118.1.1.2405 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	10507	2278 RUNARUNA ROAD Potholes -	2151				Left		May-19 UR01.1.1	Unsealed - Pothole Repairs (Routi each	6 3118.1.1.2405 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	10508	2278 RUNARUNA ROAD Potholes -	3338				Centre		•	Unsealed - Pothole Repairs (Routi each	3 3118.1.1.2405 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	10509	2278 RUNARUNA ROAD Potholes -	3386				Left		•	Unsealed - Pothole Repairs (Routi each	1 3118.1.1.2405 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	10510	2278 RUNARUNA ROAD Potholes -	3567				Right		•	Unsealed - Pothole Repairs (Routi each	2 3118.1.1.2405 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	10511	2278 RUNARUNA ROAD Potholes -	3668				Left		•	Unsealed - Pothole Repairs (Routi each	3 3118.1.1.2405 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	10512	2278 RUNARUNA ROAD Potholes -	5294				Left		,	Unsealed - Pothole Repairs (Routi each	15 3118.1.1.2405 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	10512	2278 RUNARUNA ROAD Potholes -	5384				Right		•	Unsealed - Pothole Repairs (Routi each	1 3118.1.1.2405 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	10513	2278 RUNARUNA ROAD Potholes -	5426				Left		•	Unsealed - Pothole Repairs (Routi each	4 3118.1.1.2405 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	10514	2278 RUNARUNA ROAD Potholes -	5529				Left		,	Unsealed - Pothole Repairs (Routi each	8 3118.1.1.2405 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	10516	2278 RUNARUNA ROAD Potholes -	8224				Right		•	Unsealed - Pothole Repairs (Routi each	6 3118.1.1.2405 - Unsealed pavement mtce 112
			8638				· ·		,	' '	·
7/18/100 Mtce & Renewals North (21)	10517	2278 RUNARUNA ROAD Potholes -					Right		•	Unsealed - Pothole Repairs (Routi each	2 3118.1.1.2405 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	10518	2278 RUNARUNA ROAD Potholes -	8776				Left		•	Unsealed - Pothole Repairs (Routi each	2 3118.1.1.2405 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	10519	2278 RUNARUNA ROAD Potholes -	9022				Centre		•	Unsealed - Pothole Repairs (Routi each	1 3118.1.1.2405 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	11569	2278 RUNARUNA ROAD Running cc	200	6060	9376	6.5	30 Full Width		May-19 UR02.2	Unsealed - GAP20 or GAP30 Supp m <sup>3</sup>	197 3015.1.1.4922 - Unsealed Road Metaling 211
7/18/100 Mtce & Renewals North (21)	11744	2278 RUNARUNA ROAD Grading - x	0	9375	9375		Full Width		,	Unsealed - Surface Grading (Routi metres	9375 3118.1.1.2405 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	14380	2278 RUNARUNA ROAD Remark Int	10				Left		Jun-19 TD01.2.2	Remark - GIVE WAY Int complete each	1 3021.1.1.2405 - Traffic Services Maintenance 122
7/18/100 Mtce & Renewals North (21)	14442	2278 RUNARUNA ROAD Remark lin	0	2990	72		Both			Remark - 75mm EL white 220micr kilometre	0.072 3021.1.1.2405 - Traffic Services Maintenance 122
7/18/100 Mtce & Renewals North (21)	14443	2278 RUNARUNA ROAD Remark Int	10				Left			Remark - STOP Int complete (max each	1 3021.1.1.2405 - Traffic Services Maintenance 122
7/18/100 Mtce & Renewals North (21)	9252	2543 WEST COAST ROAD (KOHUKOI Channel sw	13000	14500	1500		Both		May-19 DR08.6	Channel Sweeping High Leaf Fall kilometre	1500 3031.1.1.2405 - Routine Drainage Maintenance 113
7/18/100 Mtce & Renewals North (21)	10285	2543 WEST COAST ROAD (KOHUKO Sign straigh	14450				Right		May-19 SG01.1.1	Sign Mtce (Routine) each	1 3021.1.1.2405 - Traffic Services Maintenance 122
7/18/100 Mtce & Renewals North (21)	10286	2543 WEST COAST ROAD (KOHUKO Sign face cl	14450				Right		May-19 SG01.1.1	Sign Mtce (Routine) each	2 3021.1.1.2405 - Traffic Services Maintenance 122
7/18/100 Mtce & Renewals North (21)	11501	2543 WEST COAST ROAD (KOHUKO EMP replac	12249				Left		Jun-19 TF03.1	Flexible Marker Posts Replace and each	4 3021.1.1.2405 - Traffic Services Maintenance 122
7/18/100 Mtce & Renewals North (21)	11520	2543 WEST COAST ROAD (KOHUKO Sign face cl	21163				Both	Asset updated 3/7/19.	Jun-19 SG01.1.1	Sign Mtce (Routine) each	2 3021.1.1.2405 - Traffic Services Maintenance 122
7/18/100 Mtce & Renewals North (21)	11564	2543 WEST COAST ROAD (KOHUKO Grading - x	25000	39000	14000		Full Width	Just grade the flats, hit	Jun-19 UR02.1.1	Unsealed - Surface Grading (Routi metres	14000 3118.1.1.2405 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	11212	2543 WEST COAST ROAD (KOHUKO) Channel sw	19096	19211	115		Right		May-19 DR01.1.1	Drainage Mtce (Routine) each	1 3031.1.1.2405 - Routine Drainage Maintenance 113
7/18/100 Mtce & Renewals North (21)	11213	2543 WEST COAST ROAD (KOHUKO) Channel sw	19191	19301	110		Left		May-19 DR08.6	Channel Sweeping High Leaf Fall kilometre	1 3031.1.1.2405 - Routine Drainage Maintenance 113
7/18/100 Mtce & Renewals North (21)	11570	2543 WEST COAST ROAD (KOHUKOI Running co	25170	25770	600	6.2	30 Full Width		May-19 UR02.2	Unsealed - GAP20 or GAP30 Supp m <sup>3</sup>	76 3015.1.1.4922 - Unsealed Road Metaling 211
7/18/100 Mtce & Renewals North (21)	11214	2543 WEST COAST ROAD (KOHUKO) Channel sw	18891	19011	120		Right		May-19 DR08.7	Channel Hand Cleaning (Lined SW metres	120 3031.1.1.2405 - Routine Drainage Maintenance 113
7/18/100 Mtce & Renewals North (21)	11215	2543 WEST COAST ROAD (KOHUKO) Channel sw	18300	18400	100		Left		May-19 DR08.7	Channel Hand Cleaning (Lined SW metres	100 3031.1.1.2405 - Routine Drainage Maintenance 113
7/18/100 Mtce & Renewals North (21)	11216	2543 WEST COAST ROAD (KOHUKO) Channel sw	17975	18175	200		Right		May-19 DR08.7	Channel Hand Cleaning (Lined SW metres	200 3031.1.1.2405 - Routine Drainage Maintenance 113
7/18/100 Mtce & Renewals North (21)	11217	2543 WEST COAST ROAD (KOHUKO) Channel sw	17216	17334	118		Right		May-19 DR08.7	Channel Hand Cleaning (Lined SW metres	118 3031.1.1.2405 - Routine Drainage Maintenance 113
7/18/100 Mtce & Renewals North (21)	11245	2543 WEST COAST ROAD (KOHUKO) Channel sw	18053	18207	154		Right		May-19 DR08.7	Channel Hand Cleaning (Lined SW metres	154 3031.1.1.2405 - Routine Drainage Maintenance 113
7/18/100 Mtce & Renewals North (21)	11245	2543 WEST COAST ROAD (KOHUKO) Channel sw	17470	17885	415		Right		May-19 DR08.7	Channel Hand Cleaning (Lined SW metres	415 3031.1.1.2405 - Routine Drainage Maintenance 113
7/18/100 Mtce & Renewals North (21)	11247	2543 WEST COAST ROAD (KOHUKO) Channel sw	17334	17429	95		Left		May-19 DR08.7	Channel Hand Cleaning (Lined SW metres	95 3031.1.1.2405 - Routine Drainage Maintenance 113
7/18/100 Mtce & Renewals North (21)	12556	2543 WEST COAST ROAD (KOHUKO) Running co	25206	39720	14514	5	30 Full Width		Jun-19 UR02.2	Unsealed - GAP20 or GAP30 Supp m <sup>3</sup>	198 3015.1.1.4922 - Unsealed Road Metaling 211
			4733	33720	14314	J				• • • • • • • • • • • • • • • • • • • •	2 3021.1.1.2405 - Traffic Services Maintenance 122
7/18/100 Mtce & Renewals North (21)	12649	2543 WEST COAST ROAD (KOHUKO) Remark Int		E220	12255		Both			Remark - Arrows single beaded each	
7/18/100 Mtce & Renewals North (21)	12912	2543 WEST COAST ROAD (KOHUKO) Remark line	0	5220	12255		Centre		Jun-19 TD01.1.1	Remark - 100mm CL white dash 2 kilometre	12.255 3021.1.1.2405 - Traffic Services Maintenance 122
7/18/100 Mtce & Renewals North (21)	12913	2543 WEST COAST ROAD (KOHUKO) Remark line	0	5220	124		Both		Jun-19 TD01.1.8	Remark - 100mm Continuity Line kilometre	0.124 3021.1.1.2405 - Traffic Services Maintenance 122
7/18/100 Mtce & Renewals North (21)	12914	2543 WEST COAST ROAD (KOHUKO) Remark line	0	5220	929		Centre		Jun-19 1001.1.2	Remark - 100mm CL white solid 2 kilometre	0.929 3021.1.1.2405 - Traffic Services Maintenance 122

7/18/100 Mtce & Renewals North (21)	12926	2543 WEST COAST ROAD (KOHUKO Remark line	0	5342	72	Both		Jun-19 TD01.1.8	Remark - 100mm Continuity Lin	e kilometre	0.072 3021.1.1.2405 - Traffic Services Maintenance 122
7/18/100 Mtce & Renewals North (21)	12927	2543 WEST COAST ROAD (KOHUKO Remark line	0	5342	68	Both		Jun-19 TD01.1.8	Remark - 100mm Continuity Lin	ne kilometre	0.068 3021.1.1.2405 - Traffic Services Maintenance 122
7/18/100 Mtce & Renewals North (21)	12928	2543 WEST COAST ROAD (KOHUKO Remark Int	0	5342		Centre		Jun-19 TD01.2.6	Remark - LIMIT LINES White & \	Yel each	1 3021.1.1.2405 - Traffic Services Maintenance 122
7/18/100 Mtce & Renewals North (21)	12929	2543 WEST COAST ROAD (KOHUKO Remark Int	25208			Centre		Jun-19 TD01.2.6	Remark - LIMIT LINES White & \	Yel each	1 3021.1.1.2405 - Traffic Services Maintenance 122
7/18/100 Mtce & Renewals North (21)	12930	2543 WEST COAST ROAD (KOHUKO Remark Int	25208			Centre		Jun-19 TD01.3.2	Remark - Arrows single beaded	each	1 3021.1.1.2405 - Traffic Services Maintenance 122
7/18/100 Mtce & Renewals North (21)	12931	2543 WEST COAST ROAD (KOHUKO Remark line	0	5342	80	Centre		Jun-19 TD01.1.8	•		0.08 3021.1.1.2405 - Traffic Services Maintenance 122
7/18/100 Mtce & Renewals North (21)	12946	2543 WEST COAST ROAD (KOHUKO) Remark line	0	5342	28	Both			Remark - 100mm Continuity Lin		0.028 3021.1.1.2405 - Traffic Services Maintenance 122
7/18/100 Mtce & Renewals North (21)	12947	2543 WEST COAST ROAD (KOHUKO) Remark line	0	5342	68	Both			Remark - 100mm Continuity Lin		0.068 3021.1.1.2405 - Traffic Services Maintenance 122
7/18/100 Mtce & Renewals North (21)	12948	2543 WEST COAST ROAD (KOHUKO) Remark Int	21801	55 .2		Both			Remark - LIMIT LINES White & \		1 3021.1.1.2405 - Traffic Services Maintenance 122
7/18/100 Mtce & Renewals North (21)	12949	2543 WEST COAST ROAD (KOHUKO) Remark Int	21801			Both			Remark - Arrows single beaded		2 3021.1.1.2405 - Traffic Services Maintenance 122
7/18/100 Mtce & Renewals North (21)	12950	2543 WEST COAST ROAD (KOHUKO) Remark Int	21773			Both			Remark - Single 5.0m standard		24 3021.1.1.2405 - Traffic Services Maintenance 122
7/18/100 Mtce & Renewals North (21)	12951	2543 WEST COAST ROAD (KOHUKO) Remark Int	12270			Both			Remark - LIMIT LINES White & \		1 3021.1.1.2405 - Traffic Services Maintenance 122
7/18/100 Mtce & Renewals North (21)	12952	2543 WEST COAST ROAD (KOHUKO) Remark Int	12270			Both			Remark - Arrows single beaded		2 3021.1.1.2405 - Traffic Services Maintenance 122
7/18/100 Mtce & Renewals North (21)	12970	2543 WEST COAST ROAD (KOHUKO) Sign straigh	5826			Right			Sign Mtce (Routine)	each	1 3021.1.1.2405 - Traffic Services Maintenance 122
7/18/100 Mtce & Renewals North (21)	14484	2543 WEST COAST ROAD (KOHUKO) Sign Straigi	0	5220	46133	Both			Remark - 75mm EL white 220m		46.133 3021.1.1.2405 - Traffic Services Maintenance 122
		•	0	100	40133		Unanisted arms				
7/18/100 Mtce & Renewals North (21)	14090	2543 WEST COAST ROAD (KOHUKO) Rail barrier	2572			Left	Unpainted armco.	Jun-19 TF06.1.1		each	1 3021.1.1.2405 - Traffic Services Maintenance 122
7/18/100 Mtce & Renewals North (21)	14091	2543 WEST COAST ROAD (KOHUKO) Rail barrier	2573	2586		Left	Unpainted armco	Jun-19 TF06.1.1	0 0177	each	1 3021.1.1.2405 - Traffic Services Maintenance 122
7/18/100 Mtce & Renewals North (21)	14093	2543 WEST COAST ROAD (KOHUKO) Rail barrier	10097	10109		Right	Unpainted armco	Jun-19 TF06.1.1	0 0177	each	1 3021.1.1.2405 - Traffic Services Maintenance 122
7/18/100 Mtce & Renewals North (21)	14094	2543 WEST COAST ROAD (KOHUKO) Rail barrier	10269	10282		Right	Unpainted armco	Jun-19 TF06.1.1	0 0177	each	1 3021.1.1.2405 - Traffic Services Maintenance 122
7/18/100 Mtce & Renewals North (21)	14098	2543 WEST COAST ROAD (KOHUKO Rail barrier	10889	10914		Right			Railings Painting (Cyclic)	each	1 3021.1.1.2405 - Traffic Services Maintenance 122
7/18/100 Mtce & Renewals North (21)	14103	2543 WEST COAST ROAD (KOHUKO Rail barrier	12252	12267		Left	Unpainted armco	Jun-19 TF06.1.1	0 0 0 7 7	each	1 3021.1.1.2405 - Traffic Services Maintenance 122
7/18/100 Mtce & Renewals North (21)	14105	2543 WEST COAST ROAD (KOHUKO Rail barrier	12327	12341		Left	Unpainted armco	Jun-19 TF06.1.1	0 0177	each	1 3021.1.1.2405 - Traffic Services Maintenance 122
7/18/100 Mtce & Renewals North (21)	14106	2543 WEST COAST ROAD (KOHUKO Rail barrier	12328	12342		Right	Unpainted armco	Jun-19 TF06.1.1		each	1 3021.1.1.2405 - Traffic Services Maintenance 122
7/18/100 Mtce & Renewals North (21)	14110	2543 WEST COAST ROAD (KOHUKO Rail barrier	15145	15163		Left	Unpainted armco	Jun-19 TF06.1.1	Railings Painting (Cyclic)	each	1 3021.1.1.2405 - Traffic Services Maintenance 122
7/18/100 Mtce & Renewals North (21)	14114	2543 WEST COAST ROAD (KOHUKO Rail barrier	16459	16490		Right		Jun-19 TF06.1.1	Railings Painting (Cyclic)	each	1 3021.1.1.2405 - Traffic Services Maintenance 122
7/18/100 Mtce & Renewals North (21)	14115	2543 WEST COAST ROAD (KOHUKO Rail barrier	16482	16516		Right		Jun-19 TF06.1.1	Railings Painting (Cyclic)	each	1 3021.1.1.2405 - Traffic Services Maintenance 122
7/18/100 Mtce & Renewals North (21)	14118	2543 WEST COAST ROAD (KOHUKO Rail barrier	21660	21666		Right	Recently painted	Jun-19 TF06.1.1	Railings Painting (Cyclic)	each	1 3021.1.1.2405 - Traffic Services Maintenance 122
7/18/100 Mtce & Renewals North (21)	14119	2543 WEST COAST ROAD (KOHUKO Rail barrier	22617	22619		Left		Jun-19 TF06.1.1	Railings Painting (Cyclic)	each	1 3021.1.1.2405 - Traffic Services Maintenance 122
7/18/100 Mtce & Renewals North (21)	14120	2543 WEST COAST ROAD (KOHUKO Rail barrier	25153	25169		Left	Unpainted armco	Jun-19 TF06.1.1	Railings Painting (Cyclic)	each	1 3021.1.1.2405 - Traffic Services Maintenance 122
7/18/100 Mtce & Renewals North (21)	14830	2543 WEST COAST ROAD (KOHUKO CP1 Single	14053			Right	Jun-19	Jul-19 DR03.1	Sump cleaning CP1 (Single)	each	1 3031.1.1.2405 - Routine Drainage Maintenance 113
7/18/100 Mtce & Renewals North (21)	14831	2543 WEST COAST ROAD (KOHUKO CP1 Single	14123			Right	Jun-19	Jul-19 DR03.1	Sump cleaning CP1 (Single)	each	1 3031.1.1.2405 - Routine Drainage Maintenance 113
7/18/100 Mtce & Renewals North (21)	14832	2543 WEST COAST ROAD (KOHUKO CP1 Single	14190			Right	Jun-19	Jul-19 DR03.1	Sump cleaning CP1 (Single)	each	1 3031.1.1.2405 - Routine Drainage Maintenance 113
7/18/100 Mtce & Renewals North (21)	14833	2543 WEST COAST ROAD (KOHUKO CP1 Single	14239			Right	Jun-19	Jul-19 DR03.1	Sump cleaning CP1 (Single)	each	1 3031.1.1.2405 - Routine Drainage Maintenance 113
7/18/100 Mtce & Renewals North (21)	14834	2543 WEST COAST ROAD (KOHUKO CP1 Single	21764			Right	Jun-19	Jul-19 DR03.1	Sump cleaning CP1 (Single)	each	1 3031.1.1.2405 - Routine Drainage Maintenance 113
7/18/100 Mtce & Renewals North (21)	14835	2543 WEST COAST ROAD (KOHUKO CP1 Single	21821			Left	Jun-19	Jul-19 DR03.1	Sump cleaning CP1 (Single)	each	1 3031.1.1.2405 - Routine Drainage Maintenance 113
7/18/100 Mtce & Renewals North (21)	15662	2543 WEST COAST ROAD (KOHUKO Remark Int	5338			Centre		Jun-19 TD01.3.2	Remark - Arrows single beaded	each	2 3021.1.1.2405 - Traffic Services Maintenance 122
7/18/100 Mtce & Renewals North (21)	15665	2543 WEST COAST ROAD (KOHUKO Remark line	0	5342	28	Right		Jun-19 TD01.1.8	Remark - 100mm Continuity Lin	ne kilometre	0.028 3021.1.1.2405 - Traffic Services Maintenance 122
7/18/100 Mtce & Renewals North (21)	14092	2543 WEST COAST ROAD (KOHUKO Rail barrier	2573	2586		Right	Unpainted armco	Jun-19 TF06.1.1	•	each	1 3021.1.1.2405 - Traffic Services Maintenance 122
7/18/100 Mtce & Renewals North (21)	14095	2543 WEST COAST ROAD (KOHUKO Rail barrier	10519	10546		Right	Recently painted	Jun-19 TF06.1.1	0 0177	each	1 3021.1.1.2405 - Traffic Services Maintenance 122
7/18/100 Mtce & Renewals North (21)	14096	2543 WEST COAST ROAD (KOHUKO Rail barrier	10628	10631		Left	Recently painted	Jun-19 TF06.1.1	0 0177	each	1 3021.1.1.2405 - Traffic Services Maintenance 122
7/18/100 Mtce & Renewals North (21)	14099	2543 WEST COAST ROAD (KOHUKO) Rail barrier	11120	11130		Right	Recently painted	Jun-19 TF06.1.1	0 0177	each	1 3021.1.1.2405 - Traffic Services Maintenance 122
7/18/100 Mtce & Renewals North (21)	14100	2543 WEST COAST ROAD (KOHUKO) Rail barrier	11120	11130		Left	Recently painted	Jun-19 TF06.1.1		each	1 3021.1.1.2405 - Traffic Services Maintenance 122
7/18/100 Mtce & Renewals North (21)	14100	2543 WEST COAST ROAD (KOHUKO) Rail barrier	14913	14943		Left	Unpainted armco	Jun-19 TF06.1.1		each	2 3021.1.1.2405 - Traffic Services Maintenance 122
7/18/100 Mtce & Renewals North (21)	14103	2543 WEST COAST ROAD (KOHUKO) Rail barrier	16029	16042		Left	onpainted arrito		Railings Painting (Cyclic)	each	1 3021.1.1.2405 - Traffic Services Maintenance 122
7/18/100 Mtce & Renewals North (21)	14115	2543 WEST COAST ROAD (KOHUKO) Rail barrier	16582	16627		Left	Unpainted armco	Jun-19 TF06.1.1		each	1 3021.1.1.2405 - Traffic Services Maintenance 122
7/18/100 Mtce & Renewals North (21) 7/18/100 Mtce & Renewals North (21)	14115	2543 WEST COAST ROAD (KOHUKOI Rail barrier	17387	17400		Left	Onpainted arrico			each	1 3021.1.1.2405 - Traffic Services Maintenance 122 1 3021.1.1.2405 - Traffic Services Maintenance 122
	14117	2543 WEST COAST ROAD (KOHUKOI Kali barrier 2543 WEST COAST ROAD (KOHUKOI Side drains	6194	6199	5	Left		Jun-19 TF06.1.1	Drainage Mtce (Routine)	each	
7/18/100 Mtce & Renewals North (21)	140/3	2343 MEST COAST KOAD (KOHOKOLSING GLIUS	0194	0199	5	Leit		Juli-13 DK01.1.1	Drainage witte (Koutine)	eacii	1 3031.1.1.2405 - Routine Drainage Maintenance 113

Contract	Dispatch   Ro	ad Road	Fault S	tart E	ind L	ength Wi	dth Dep	oth Side P	rogramm Notes Maint Note	laim Num Item Numt Item Number	Units	Claim Quar Account 2 Notes
7/18/100 Mtce & Renewals North (21)	2827	1656 DUNCAN ROAD (KAINGAR		8500	10500	2000	4.5	30 Full Width	rogrammi Notes Want Note		20 or GAP30 Supp m <sup>3</sup>	46 3015.1.1.4922 - Unsealed Road Metaling 211
7/18/100 Mtce & Renewals North (21)	4425	1656 DUNCAN ROAD (KAINGAR	, .	11457	11497	40	2	30 Left	1 truck and trailer and	,	20 or GAP30 Supp m <sup>3</sup>	46 3015.1.1.4922 - Unsealed Road Metaling 211
7/18/100 Mtce & Renewals North (21)	7254	1656 DUNCAN ROAD (KAINGAR	, 0	10500	10500	2000	4.6	30 Full Width		•	20 or GAP30 Supp m <sup>3</sup>	46 3015.1.1.4922 - Unsealed Road Metaling 211
7/18/100 Mtce & Renewals North (21)	11122	1656 DUNCAN ROAD (KAINGAR		8500	10500	2000	4.5	30 Full Width		•	20 or GAP30 Supp m <sup>3</sup>	119 3015.1.1.4922 - Unsealed Road Metaling 211
7/18/100 Mtce & Renewals North (21)	11160	1656 DUNCAN ROAD (KAINGAR	, 0	1577	4577	3000		Full Width		-	ace Grading (Routi metres	3000 3118.1.1.2405 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	11162	1656 DUNCAN ROAD (KAINGAR	OA) Potholes -	8749				Right		May-19 UR01.1.1 Unsealed - Poth		3 3118.1.1.2405 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	11163	1656 DUNCAN ROAD (KAINGAR	•	8939				Left		May-19 UR01.1.1 Unsealed - Poth	nole Repairs (Routi each	3 3118.1.1.2405 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	11165	1656 DUNCAN ROAD (KAINGAR	OA) Potholes -	10333				Left		May-19 UR01.1.1 Unsealed - Poth	nole Repairs (Routi each	2 3118.1.1.2405 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	11166	1656 DUNCAN ROAD (KAINGAR	•	10412				Left		May-19 UR01.1.1 Unsealed - Poth		1 3118.1.1.2405 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	11167	1656 DUNCAN ROAD (KAINGAR	OA) Potholes -	10607				Left		May-19 UR01.1.1 Unsealed - Poth	ole Repairs (Routi each	3 3118.1.1.2405 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	11169	1656 DUNCAN ROAD (KAINGAR	ROA) Potholes -	12969				Both		May-19 UR01.1.1 Unsealed - Poth	ole Repairs (Routi each	15 3118.1.1.2405 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	11170	1656 DUNCAN ROAD (KAINGAR	(OA) Potholes -	13645				Right		May-19 UR01.1.1 Unsealed - Poth	ole Repairs (Routi each	2 3118.1.1.2405 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	11171	1656 DUNCAN ROAD (KAINGAR	OA) Potholes -	13797				Left		May-19 UR01.1.1 Unsealed - Poth	ole Repairs (Routi each	5 3118.1.1.2405 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	11173	1656 DUNCAN ROAD (KAINGAR	OA) Potholes -	14870				Both		May-19 UR01.1.1 Unsealed - Poth	ole Repairs (Routi each	6 3118.1.1.2405 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	11175	1656 DUNCAN ROAD (KAINGAR	OA) Potholes -	14920				Centre		May-19 UR01.1.1 Unsealed - Poth	ole Repairs (Routi each	1 3118.1.1.2405 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	11176	1656 DUNCAN ROAD (KAINGAR	OA) Potholes -	14958				Left		May-19 UR01.1.1 Unsealed - Poth	ole Repairs (Routi each	1 3118.1.1.2405 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	11177	1656 DUNCAN ROAD (KAINGAR	OA) Potholes -	15178				Left		May-19 UR01.1.1 Unsealed - Poth	ole Repairs (Routi each	15 3118.1.1.2405 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	11178	1656 DUNCAN ROAD (KAINGAR	OA) Potholes -	15506				Both		May-19 UR01.1.1 Unsealed - Poth	ole Repairs (Routi each	4 3118.1.1.2405 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	11179	1656 DUNCAN ROAD (KAINGAR	ROA) Potholes - I	15589				Both		May-19 UR01.1.1 Unsealed - Poth	ole Repairs (Routi each	10 3118.1.1.2405 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	12484	1656 DUNCAN ROAD (KAINGAR	ROA) Grading - x	8400	15830	7430		Full Width		Jun-19 UR02.1.1 Unsealed - Surfa	ace Grading (Routi metres	7430 3118.1.1.2405 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	16063	1656 DUNCAN ROAD (KAINGAR	ROA) Potholes - I	2754				Centre		Jul-19 UR01.1.1 Unsealed - Poth	ole Repairs (Routi each	10 3118.1.1.2405 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	16065	1656 DUNCAN ROAD (KAINGAR	ROA) Potholes - I	8750				Right		Jul-19 UR01.1.1 Unsealed - Poth	ole Repairs (Routi each	1 3118.1.1.2405 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	16066	1656 DUNCAN ROAD (KAINGAR	ROA) Potholes - I	8857				Left		Jul-19 UR01.1.1 Unsealed - Poth	ole Repairs (Routi each	1 3118.1.1.2405 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	16067	1656 DUNCAN ROAD (KAINGAR	ROA) Potholes - I	8941				Left		Jul-19 UR01.1.1 Unsealed - Poth	ole Repairs (Routi each	3 3118.1.1.2405 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	16069	1656 DUNCAN ROAD (KAINGAR	ROA) Potholes - I	12979				Right		Jul-19 UR01.1.1 Unsealed - Poth	ole Repairs (Routi each	6 3118.1.1.2405 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	16070	1656 DUNCAN ROAD (KAINGAR	OA) Potholes -	13797				Left		Jul-19 UR01.1.1 Unsealed - Poth	ole Repairs (Routi each	5 3118.1.1.2405 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	16071	1656 DUNCAN ROAD (KAINGAR	ROA) Potholes -	14879				Both		Jul-19 UR01.1.1 Unsealed - Poth	ole Repairs (Routi each	10 3118.1.1.2405 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	16148	1656 DUNCAN ROAD (KAINGAR	OA) Potholes -	15705				Both		Jul-19 UR01.1.1 Unsealed - Poth	ole Repairs (Routi each	50 3118.1.1.2405 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	16149	1656 DUNCAN ROAD (KAINGAR	ROA) Potholes -	15496				Right		Jul-19 UR01.1.1 Unsealed - Poth	ole Repairs (Routi each	65 3118.1.1.2405 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	16150	1656 DUNCAN ROAD (KAINGAR	ROA) Potholes -	15335				Left		Jul-19 UR01.1.1 Unsealed - Poth	ole Repairs (Routi each	10 3118.1.1.2405 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	16151	1656 DUNCAN ROAD (KAINGAR	ROA) Potholes - I	15263				Right		Jul-19 UR01.1.1 Unsealed - Poth	ole Repairs (Routi each	12 3118.1.1.2405 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	986	1862 KOHUMARU ROAD	Running co	6355	6930	575	4.8	30 Full Width	This dispatch is approv	•	20 or GAP30 Supp m <sup>3</sup>	39 3015.1.1.4922 - Unsealed Road Metaling 211
7/18/100 Mtce & Renewals North (21)	11031	1862 KOHUMARU ROAD	Running co	7561	7611	50	5	30 Full Width	Bare spots where corn	May-19 UR02.2 Unsealed - GAP	20 or GAP30 Supp m <sup>3</sup>	39 3015.1.1.4922 - Unsealed Road Metaling 211
7/18/100 Mtce & Renewals North (21)	11032	1862 KOHUMARU ROAD	Running co	8703	8753	50	5	30 Full Width	Bare spot where corne	May-19 UR02.2 Unsealed - GAP	20 or GAP30 Supp m <sup>3</sup>	39 3015.1.1.4922 - Unsealed Road Metaling 211
7/18/100 Mtce & Renewals North (21)	11033	1862 KOHUMARU ROAD	Running co	9581	9651	70	5	30 Full Width	Barespot where corne	•	20 or GAP30 Supp m <sup>3</sup>	39 3015.1.1.4922 - Unsealed Road Metaling 211
7/18/100 Mtce & Renewals North (21)	11034	1862 KOHUMARU ROAD	Running co	10475	10595	120	4.5	30 Full Width	Bare spot where corne	May-19 UR02.2 Unsealed - GAP	20 or GAP30 Supp m <sup>3</sup>	38 3015.1.1.4922 - Unsealed Road Metaling 211
7/18/100 Mtce & Renewals North (21)	11035	1862 KOHUMARU ROAD	Running co	10789	10989	200	4.5	30 Full Width	Barespot where corne	•	20 or GAP30 Supp m <sup>3</sup>	38 3015.1.1.4922 - Unsealed Road Metaling 211
7/18/100 Mtce & Renewals North (21)	11036	1862 KOHUMARU ROAD	Running cc	11323	11539	216	5	30 Full Width		May-19 UR02.2 Unsealed - GAP	20 or GAP30 Supp m <sup>3</sup>	92 3015.1.1.4922 - Unsealed Road Metaling 211
7/18/100 Mtce & Renewals North (21)	11042	1862 KOHUMARU ROAD	Grading - x	4350	19953	15603		Both		Jun-19 UR02.1.1 Unsealed - Surfa	ace Grading (Routi metres	15603 3118.1.1.2405 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	12581	1862 KOHUMARU ROAD	Potholes -	19947				Both		Jun-19 UR01.1.1 Unsealed - Poth	ole Repairs (Routi each	8 3118.1.1.2405 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	12582	1862 KOHUMARU ROAD	Potholes -	19720				Left		Jun-19 UR01.1.1 Unsealed - Poth		9 3118.1.1.2405 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	12583	1862 KOHUMARU ROAD	Potholes -	19134				Left		Jun-19 UR01.1.1 Unsealed - Poth		10 3118.1.1.2405 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	12584	1862 KOHUMARU ROAD	Potholes -	19088				Left		Jun-19 UR01.1.1 Unsealed - Poth		3 3118.1.1.2405 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	12585	1862 KOHUMARU ROAD	Potholes -	16476				Left		Jun-19 UR01.1.1 Unsealed - Poth		2 3118.1.1.2405 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	12586	1862 KOHUMARU ROAD	Potholes -	10556				Both		Jun-19 UR01.1.1 Unsealed - Poth		5 3118.1.1.2405 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	12587	1862 KOHUMARU ROAD	Potholes -	10453				Right		Jun-19 UR01.1.1 Unsealed - Poth		1 3118.1.1.2405 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	12588	1862 KOHUMARU ROAD	Potholes -	9524				Both		Jun-19 UR01.1.1 Unsealed - Poth		20 3118.1.1.2405 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	12589	1862 KOHUMARU ROAD	Potholes -	9419				Right		Jun-19 UR01.1.1 Unsealed - Poth		6 3118.1.1.2405 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	12590	1862 KOHUMARU ROAD	Potholes -	9241			_	Both		Jun-19 UR01.1.1 Unsealed - Poth		10 3118.1.1.2405 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	12592	1862 KOHUMARU ROAD	Running co	84	4302	4218	6	30 Full Width	Road needs grading th		20 or GAP30 Supp m <sup>3</sup>	72 3015.1.1.4922 - Unsealed Road Metaling 211
7/18/100 Mtce & Renewals North (21)	11222	1957 MARTIN ROAD (KAEO)	Grading - x	2420	9361	6941		Both	Hit and miss grading. (		ace Grading (Routi metres	6941 3118.1.1.2405 - Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	11113	1957 MARTIN ROAD (KAEO)	Ftpth vege	0	1	1		Centre	This is for the footpath	May-19 DW2.1 DW - Labourer	hour	5 1.1420.02.2407 - BOI/Wh Actual
7/18/100 Mtce & Renewals North (21)	11113	1957 MARTIN ROAD (KAEO)	Ftpth vege	0	1	1		Centre	This is for the footpath	May-19 DW1.19 DW - Truck (4 -	,	1 1.1420.02.2407 - BOI/Wh Actual
7/18/100 Mtce & Renewals North (21)	14879	1957 MARTIN ROAD (KAEO)	CP1 Single	1074	0000	6000		Left	Jun-19	Jul-19 DR03.1 Sump cleaning (		1 3031.1.1.2405 - Routine Drainage Maintenance 113
7/18/100 Mtce & Renewals North (21)	16087	1957 MARTIN ROAD (KAEO)	Grading - x	2461	9361	6900		Full Width			ace Grading (Routi metres	7000 3118.1.1.2405 - Unsealed pavement mtce 112
7/18/101 Mtce & Renewals South (22)	21671	2196 PUKETOTARA ROAD	Running co	5277	6777	1500	5.7	30 Full Width	Becoming bare to clay	•	20 or GAP30 Supp m <sup>3</sup>	280 4015.1.1.4922 - Unsealed Road Metaling 211
7/18/101 Mtce & Renewals South (22)	21673	2196 PUKETOTARA ROAD	Running co	6885	7885	1000	5.7	30 Full Width	Bare down to clay.	•	20 or GAP30 Supp m <sup>3</sup>	118 4015.1.1.4922 - Unsealed Road Metaling 211
7/18/101 Mtce & Renewals South (22)	21674	2196 PUKETOTARA ROAD	Running co	8000	9200	1200	5.7	30 Full Width	Bare and becoming ou	•	20 or GAP30 Supp m <sup>3</sup>	187 4015.1.1.4922 - Unsealed Road Metaling 211
7/18/101 Mtce & Renewals South (22)	21675	2196 PUKETOTARA ROAD	Running co	10000	11000	1000	5.7	30 Full Width	Bare and flat needs bu	•	20 or GAP30 Supp m <sup>3</sup>	118 4015.1.1.4922 - Unsealed Road Metaling 211
7/18/101 Mtce & Renewals South (22)	21676	2196 PUKETOTARA ROAD	Running co	11250	12250	1000	6.7	30 Full Width	Bare and needing resh	•	20 or GAP30 Supp m <sup>3</sup>	119 4015.1.1.4922 - Unsealed Road Metaling 211
7/18/101 Mtce & Renewals South (22)	20494	2196 PUKETOTARA ROAD	Potholes -	11630				Left	grader	•	nole Repairs (Routi each	8 4118.1.1.2405 - Unsealed pavement mtce 112
7/18/101 Mtce & Renewals South (22)	20493	2196 PUKETOTARA ROAD	Potholes -	11474				Left	auc d	May-19 UR01.1.1 Unsealed - Poth		8 4118.1.1.2405 - Unsealed pavement mtce 112
7/18/101 Mtce & Renewals South (22)	20492	2196 PUKETOTARA ROAD	Potholes -	10664				Left	grader	May-19 UR01.1.1 Unsealed - Poth	iole Repairs (Routi each	3 4118.1.1.2405 - Unsealed pavement mtce 112

Contract	Dispatch I R	oad Road	Fault Sta	art Er	nd Le	ength W	Vidth	Depth	Side	Programme Notes Maint Note C	Claim Num Item Numb Item Number	Units	Claim Quar Account 2	Notes
7/18/100 Mtce & Renewals North (21)	10061	1754 HENDERSON BAY ROAD	Grading - x	133	5689	5556			Both	Few corrugation hit an	May-19 UR02.1.1 Unsealed - Surface (	Grading (Routi metres	5556 3118.1.1.2405	- Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	14584	1754 HENDERSON BAY ROAD	Grading - x	40	5689	5649			Full Width	Full grade	Jun-19 UR02.1.1 Unsealed - Surface (	Grading (Routi metres	5649 3118.1.1.2405	- Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	14697	2236 RARAWA BEACH ROAD	Grading - x	28	3581	3553			Full Width		Jun-19 UR02.1.1 Unsealed - Surface (	Grading (Routi metres	3553 3118.1.1.2405	- Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	10481	2411 TE HAPUA ROAD	Grading - x	3155	5879	2724			Both	A few corners corrugat	May-19 UR02.1.1 Unsealed - Surface (	Grading (Routi metres	2724 3118.1.1.2405	- Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	12193	2411 TE HAPUA ROAD	Potholes - I	190					Right		Jun-19 UR01.1.1 Unsealed - Pothole	Repairs (Routi each	3 3118.1.1.2405	- Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	12194	2411 TE HAPUA ROAD	Potholes - I	5899					Centre		Jun-19 UR01.1.1 Unsealed - Pothole	Repairs (Routi each	1 3118.1.1.2405	- Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	12198	2411 TE HAPUA ROAD	Grading - x	5876	10538	4662			Both	Isolated corrugations c	Jun-19 UR02.1.1 Unsealed - Surface (	Grading (Routi metres	4662 3118.1.1.2405	- Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	12199	2411 TE HAPUA ROAD	Grading - x	3155	5876	2721			Both	Isolated corrugations h	Jun-19 UR02.1.1 Unsealed - Surface (	Grading (Routi metres	2721 3118.1.1.2405	- Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	12200	2411 TE HAPUA ROAD	Grading - x	54	2080	2026			Full Width	Full grade corrugations	Jun-19 UR02.1.1 Unsealed - Surface (	Grading (Routi metres	2026 3118.1.1.2405	- Unsealed pavement mtce 112
7/18/100 Mtce & Renewals North (21)	15790	2411 TE HAPUA ROAD	Running co	0	5000	5000	5	3	0 Full Width		Jun-19 UR02.2 Unsealed - GAP20 o	r GAP30 Suppl m <sup>3</sup>	72 3015.1.1.4922	- Unsealed Road Metaling 211
7/18/100 Mtce & Renewals North (21)	12192	2424 TE PAKI STREAM ROAD	Grading - x	0	3200	3200			Full Width	Road needs full grade	Jun-19 UR02.1.1 Unsealed - Surface (	Grading (Routi metres	3200 3118.1.1.2405	- Unsealed pavement mtce 112



Road Name	Road S	tart E	ind A	Asset ID Cyc Act Tyr Cyc Act Fre Cyc Act Sta	Due Date	First Date Oka	Last Date Okay C	Completed (	Completed Date	Missed Date	Next Recor No	ext Due Date	Audited	Audit Resu Audit Resu Audit Comı Au	dited Date Contract L	Length
HOREKE ROAD (1785)	1785	0	15971	2104 Drainage Ir Drainage 1 Last	10/08/2018	3/08/2018	17/08/2018	TRUE	20/09/2018		15464	26/09/2019	FALSE		7/18/101 N	15971
HOREKE ROAD (1785)	1785	0	2601	8587 Sealed Net Sealed 3 M Last	30/05/2019	23/05/2019	7/06/2019	TRUE	3/04/2019		18519	10/07/2019	TRUE	1 Pass	5/04/2019 7/18/101 N	2601
HOREKE ROAD (1785)	1785	0	15971	15464 Drainage Ir Drainage 1 Current	26/09/2019	19/09/2019	3/10/2019	FALSE			15465	1/10/2020	FALSE		7/18/101 N	15971
HOREKE ROAD (1785)	1785	0	2601	18519 Sealed Net Sealed 3 M Current	10/07/2019	3/07/2019	17/07/2019	FALSE			21464	10/10/2019			7/18/101 N	2601
HOREKE ROAD (1785)	1785	2601	11570	12830 Unsealed Nusealed 1 Missed	10/08/2018	7/08/2018	15/08/2018	FALSE		6/09/2018		11/09/2018			7/18/101 N	8969
HOREKE ROAD (1785)	1785	2601	11570	12833 Unsealed Nusealed 1 Missed	27/11/2018	22/11/2018	30/11/2018	FALSE		24/12/2018		29/01/2019	FALSE		7/18/101 N	8969
HOREKE ROAD (1785)	1785	2601	11570	12838 Unsealed Nunsealed 1 Last	13/06/2019	10/06/2019	18/06/2019	TRUE	17/06/2019		12839	15/07/2019	FALSE		7/18/101 N	8969
HOREKE ROAD (1785)	1785	2601	11570	12839 Unsealed Nunsealed 1 Current	15/07/2019	10/07/2019	18/07/2019	FALSE			12840	14/08/2019	FALSE		7/18/101 N	8969
HOREKE ROAD (1785)	1785	11570	15469	10361 Sealed Net Sealed 1 M Last	8/07/2019	3/07/2019	11/07/2019	TRUE	4/07/2019		10362	7/08/2019	FALSE		7/18/101 N	3899
HOREKE ROAD (1785)	1785	11570	15469	10362 Sealed Net Sealed 1 M Current	7/08/2019	2/08/2019	12/08/2019	FALSE			10363	6/09/2019	FALSE		7/18/101 N	3899
HOREKE ROAD (1785)	1785	15469	15971	8590 Sealed Net Sealed 3 M Last	4/07/2019	27/06/2019	11/07/2019	TRUE	4/07/2019		8591	4/10/2019	FALSE		7/18/101 N	502
HOREKE ROAD (1785)	1785	15469	15971	8591 Sealed Net Sealed 3 M Current	4/10/2019	27/09/2019	11/10/2019	FALSE			18514	13/01/2020	FALSE		7/18/101 N	502
OPARA ROAD (2083)	2083	0	3077	1842 Unsealed Nunsealed 2 Missed	13/07/2018	9/07/2018	19/07/2018	FALSE		8/09/2018	3 13742	26/09/2018	FALSE		7/18/101 N	3077
OPARA ROAD (2083)	2083	0	3077	2220 Drainage Ir Drainage 1 Last	27/07/2018	20/07/2018	3/08/2018	TRUE	9/08/2018		15698	15/08/2019	FALSE		7/18/101 N	3077
OPARA ROAD (2083)	2083	0	3077	13746 Unsealed N Unsealed 2 Last	6/05/2019	30/04/2019	10/05/2019	TRUE	16/05/2019		13747	18/07/2019	FALSE		7/18/101 N	3077
OPARA ROAD (2083)	2083	0	3077	13747 Unsealed N Unsealed 2 Current	18/07/2019	12/07/2019	24/07/2019	FALSE			16628	18/09/2019	FALSE		7/18/101 N	3077
OPARA ROAD (2083)	2083	0	3077	15698 Drainage Ir Drainage 1 Current	15/08/2019	8/08/2019	22/08/2019	FALSE			15699	20/08/2020	FALSE		7/18/101 N	3077
WAIMAMAKU BEACH ROAD	2498	0	4125	1981 Unsealed N Unsealed 1 Missed	13/07/2018	10/07/2018	18/07/2018	FALSE		9/08/2018	15020	6/09/2018	FALSE		7/18/101 N	4125
WAIMAMAKU BEACH ROAD	2498	0	4125	2376 Drainage Ir Drainage 1 Last	13/07/2018	6/07/2018	20/07/2018	TRUE	23/08/2018		16022	29/08/2019	FALSE		7/18/101 N	4125
WAIMAMAKU BEACH ROAD	2498	0	4125	15027 Unsealed N Unsealed 1 Last	14/06/2019	11/06/2019	19/06/2019	TRUE	17/06/2019		15028	16/07/2019	TRUE	2 Pass - Roor Nothing pr	20/06/2019 7/18/101 N	4125
WAIMAMAKU BEACH ROAD	2498	0	4125	15028 Unsealed N Unsealed 1 Current	16/07/2019	11/07/2019	19/07/2019	FALSE			15029	15/08/2019	FALSE		7/18/101 N	4125
WAIMAMAKU BEACH ROAD	2498	0	4125	16022 Drainage Ir Drainage 1 Current	29/08/2019	22/08/2019	5/09/2019	FALSE			16023	3/09/2020	FALSE		7/18/101 N	4125
WAIOTEMARAMA GORGE F	2510	0	9682	2383 Drainage Ir Drainage 1 Last	20/07/2018	13/07/2018	27/07/2018	TRUE	9/08/2018		16036	15/08/2019	TRUE	8 Fail - Multi No detailed	28/08/2018 7/18/101 N	9682
WAIOTEMARAMA GORGE F	2510	0	9682	15092 Unsealed N Unsealed 1 Missed	19/11/2018	14/11/2018	22/11/2018	FALSE		14/12/2018	15093	19/12/2018	FALSE		7/18/101 N	9682
WAIOTEMARAMA GORGE F	C 2510	0	9682	15098 Unsealed N Unsealed 1 Last	13/06/2019	10/06/2019	18/06/2019	TRUE	10/06/2019		15099	15/07/2019	FALSE		7/18/101 N	9682
WAIOTEMARAMA GORGE F	C 2510	0	9682	15099 Unsealed N Unsealed 1 Current	15/07/2019	10/07/2019	18/07/2019	FALSE			15100	14/08/2019	FALSE		7/18/101 N	9682
WAIOTEMARAMA GORGE F	C 2510	0	9682	16036 Drainage Ir Drainage 1 Current	15/08/2019	8/08/2019	22/08/2019	FALSE			16037	20/08/2020	FALSE		7/18/101 N	9682
WHAREPUNGA ROAD (256)	3) 2563	0	6976	2405 Drainage Ir Drainage 1 Last	2/11/2018	26/10/2018	9/11/2018	TRUE	20/11/2018		16080	26/11/2019	FALSE		7/18/101 N	6976
WHAREPUNGA ROAD (256)	3) 2563	0	6976	15233 Unsealed N Unsealed 1 Missed	14/08/2018	9/08/2018	17/08/2018	FALSE		10/09/2018	3 15234	13/09/2018	FALSE		7/18/101 N	6976
WHAREPUNGA ROAD (256)	3) 2563	0	6976	15234 Unsealed Nunsealed 1 Missed	13/09/2018	10/09/2018	18/09/2018	FALSE		10/10/2018	15235	15/10/2018	FALSE		7/18/101 N	6976
WHAREPUNGA ROAD (256	3] 2563	0	6976	15242 Unsealed N Unsealed 1 Last	17/06/2019	12/06/2019	20/06/2019	TRUE	17/06/2019		15243	17/07/2019	FALSE		7/18/101 N	6976
WHAREPUNGA ROAD (256	3) 2563	0	6976	15243 Unsealed N Unsealed 1 Current	17/07/2019	12/07/2019	22/07/2019	FALSE			15244	16/08/2019	FALSE		7/18/101 N	6976
WHAREPUNGA ROAD (256	3) 2563	0	6976	16080 Drainage Ir Drainage 1 Current	26/11/2019	19/11/2019	3/12/2019	FALSE			16081	1/12/2020	FALSE		7/18/101 N	6976

Road Name	Road St	art E	nd A	Asset ID Cyc Act Tyr Cyc Act Fre Cyc Act Sta	Due Date	First Date Okay	Last Date Okay	Complete	d Completed Date	Missed Date	Next Recor N	ext Due Date	Audited	Audit Resul Audit Resul Audit Comi Audited	Date Contract L	ength.
ORAKAU ROAD (2201)	2201	0	16442	2222 Drainage Ir Drainage 1 Last	16/11/2018	9/11/2018	23/11/2018	TRUE	13/12/2018		15702	19/12/2019	FALSE		7/18/101 N	16442
ORAKAU ROAD (2201)	2201	0	272	10338 Sealed Net Sealed 3 M Last	20/05/2019	13/05/2019	27/05/2019	TRUE	28/05/2019		10339	29/08/2019	FALSE		7/18/101 N	272
ORAKAU ROAD (2201)	2201	0	272	10339 Sealed Net Sealed 3 M Current	29/08/2019	22/08/2019	5/09/2019	FALSE			19416	2/12/2019	FALSE		7/18/101 N	272
ORAKAU ROAD (2201)	2201	0	16442	15702 Drainage Ir Drainage 1 Current	19/12/2019	12/12/2019	30/12/2019	FALSE			15703	24/12/2020	FALSE		7/18/101 N	16442
ORAKAU ROAD (2201)	2201	272	16442	13748 Unsealed NUnsealed 1 Missed	7/09/2018	4/09/2018	12/09/2018	FALSE		4/10/2018	3 13749	31/10/2018	FALSE		7/18/101 N	16170
ORAKAU ROAD (2201)	2201	272	16442	13756 Unsealed NUnsealed 1 Last	17/06/2019	12/06/2019	20/06/2019	TRUE	17/06/2019		13757	17/07/2019	FALSE		7/18/101 N	16170
ORAKAU ROAD (2201)	2201	272	16442	13757 Unsealed N Unsealed 1 Current	17/07/2019	12/07/2019	22/07/2019	FALSE			13758	16/08/2019	FALSE		7/18/101 N	16170
PIPIWAI ROAD (2164)	2164	0	13073	1871 Unsealed NUnsealed 1 Missed	6/07/2018	3/07/2018	11/07/2018	FALSE		9/08/2018	3 13992	7/08/2018	FALSE		7/18/101 N	13073
PIPIWAI ROAD (2164)	2164	0	13073	2254 Drainage Ir Drainage 1 Last	17/05/2019	10/05/2019	24/05/2019	TRUE	17/06/2019		15768	22/06/2020	FALSE		7/18/101 N	13073
PIPIWAI ROAD (2164)	2164	0	13073	13992 Unsealed NUnsealed 1 Missed	7/08/2018	2/08/2018	10/08/2018	FALSE		3/09/2018	3 13993	17/09/2018	FALSE		7/18/101 N	13073
PIPIWAI ROAD (2164)	2164	0	13073	14000 Unsealed NUnsealed 1 Last	10/06/2019	5/06/2019	13/06/2019	TRUE	18/06/2019		14001	18/07/2019	FALSE		7/18/101 N	13073
PIPIWAI ROAD (2164)	2164	0	13073	14001 Unsealed N Unsealed 1 Current	18/07/2019	15/07/2019	23/07/2019	FALSE			14002	19/08/2019	FALSE		7/18/101 N	13073
PIPIWAI ROAD (2164)	2164	0	13073	15768 Drainage Ir Drainage 1 Current	22/06/2020	15/06/2020	29/06/2020	FALSE			15769	16/06/2021	FALSE		7/18/101 N	13073
TAPUHI ROAD (2384)	2384	0	11310	2331 Drainage Ir Drainage 1 Last	24/05/2019	17/05/2019	31/05/2019	TRUE	3/07/2019		15929	8/07/2020	FALSE		7/18/101 N	11310
TAPUHI ROAD (2384)	2384	0	358	9610 Sealed Net Sealed 3 M Last	26/04/2019	16/04/2019	3/05/2019	TRUE	1/05/2019		9611	30/07/2019			7/18/101 N	358
TAPUHI ROAD (2384)	2384	0	358	9611 Sealed Net Sealed 3 M Current	30/07/2019	23/07/2019	6/08/2019	FALSE			18325	31/10/2019	FALSE		7/18/101 N	358
TAPUHI ROAD (2384)	2384	0	11310	15929 Drainage Ir Drainage 1 Current	8/07/2020	1/07/2020	15/07/2020	FALSE			15930	2/07/2021	FALSE		7/18/101 N	11310
TAPUHI ROAD (2384)	2384	358	11310	1942 Unsealed NUnsealed 1 Missed	6/07/2018	3/07/2018	11/07/2018	FALSE		9/08/2018	3 14661	7/08/2018	FALSE		7/18/101 N	10952
TAPUHI ROAD (2384)	2384	358	11310	14661 Unsealed Nunsealed 1 Missed	7/08/2018	2/08/2018	10/08/2018	FALSE		3/09/2018	3 14662	6/09/2018	FALSE		7/18/101 N	10952
TAPUHI ROAD (2384)	2384	358	11310	14670 Unsealed NUnsealed 1 Last	9/07/2019	4/07/2019	12/07/2019	TRUE	11/07/2019		14671	8/08/2019	FALSE		7/18/101 N	10952
TAPUHI ROAD (2384)	2384	358	11310	14671 Unsealed N Unsealed 1 Current	8/08/2019	5/08/2019	13/08/2019	FALSE			14672	9/09/2019			7/18/101 N	10952
WAIKARE ROAD (2491)	2491	0	23437	2368 Drainage Ir Drainage 1 Current	19/04/2019			FALSE			16005	29/04/2020	FALSE		7/18/101 N	23437
WAIKARE ROAD (2491)	2491	0	7985	17512 Sealed Net Sealed 1 M Last	12/07/2019	9/07/2019	17/07/2019	TRUE	4/07/2019		18025	5/08/2019	FALSE		7/18/101 N	7985
WAIKARE ROAD (2491)	2491	0	7985	18025 Sealed Net Sealed 1 M Current	5/08/2019	31/07/2019	8/08/2019	FALSE			19083	4/09/2019			7/18/101 N	7985
WAIKARE ROAD (2491)	2491	7985	16764	1972 Unsealed NUnsealed 1 Missed	4/07/2018	29/06/2018	9/07/2018	FALSE		9/08/2018	3 14924	3/08/2018	FALSE		7/18/101 N	8779
WAIKARE ROAD (2491)	2491	7985	16764	14924 Unsealed Nunsealed 1 Missed	3/08/2018	31/07/2018	8/08/2018	FALSE		30/08/2018	3 14925	12/09/2018			7/18/101 N	8779
WAIKARE ROAD (2491)	2491	7985	16764	14932 Unsealed N Unsealed 1 Last	13/06/2019	10/06/2019	18/06/2019	TRUE	12/06/2019		14933	15/07/2019			7/18/101 N	8779
WAIKARE ROAD (2491)	2491	7985	16764	14933 Unsealed N Unsealed 1 Current	15/07/2019	10/07/2019	18/07/2019				14934	14/08/2019			7/18/101 N	8779
WAIKARE ROAD (2491)	2491	16764	17882	9102 Sealed Net Sealed 3 M Last	30/04/2019	18/04/2019	7/05/2019	TRUE	30/04/2019		9103	1/08/2019			7/18/101 N	1118
WAIKARE ROAD (2491)	2491	16764	17882	9103 Sealed Net Sealed 3 M Current	1/08/2019	25/07/2019	8/08/2019	FALSE			18275	4/11/2019	FALSE		7/18/101 N	1118
WAIKARE ROAD (2491)	2491	17882	23437	1973 Unsealed Nunsealed 1 Missed	4/07/2018	29/06/2018	9/07/2018	FALSE		9/08/2018		3/08/2018			7/18/101 N	5555
WAIKARE ROAD (2491)	2491	17882	23437	14937 Unsealed N Unsealed 1 Missed	3/08/2018	31/07/2018	8/08/2018	FALSE		30/08/2018		12/09/2018			7/18/101 N	5555
WAIKARE ROAD (2491)	2491	17882	23437	14940 Unsealed N Unsealed 1 Missed	5/11/2018	31/10/2018	8/11/2018	FALSE		30/11/2018		5/12/2018			7/18/101 N	5555
WAIKARE ROAD (2491)	2491	17882	23437	14941 Unsealed N Unsealed 1 Missed	5/12/2018	30/11/2018	10/12/2018	FALSE		7/01/2019		10/01/2019			7/18/101 N	5555
WAIKARE ROAD (2491)	2491	17882	23437	14947 Unsealed N Unsealed 1 Last	12/06/2019	7/06/2019	17/06/2019	TRUE	12/06/2019		14948	12/07/2019		2 Pass - Roor Vegetation	18/06/2019 7/18/101 N	5555
WAIKARE ROAD (2491)	2491	17882	23437	14948 Unsealed NUnsealed 1 Current	12/07/2019	9/07/2019	17/07/2019	FALSE			14949	13/08/2019	FALSE		7/18/101 N	5555

Road Name Ro	ad St	art	End A	Asset ID Cyc Act Tyr Cyc Act Fre Cyc Act St	a Due Date	First Date Okay	Last Date Okay	Completed	d Completed Date	Missed Date	Next Recor N	ext Due Date	Audited	Audit Resul Audit Comı Audited Date	Contract L	Length
DIGGERS VALLEY ROAD (1639	1639	0	21878	742 Drainage Ir Drainage 1: Last	19/11/2018	12/11/2018	26/11/2018	TRUE	27/11/2018		7862	3/12/2019	FALSE		7/18/100 N	2
OIGGERS VALLEY ROAD (1639	1639	0	21878	5126 Unsealed N Unsealed 1 Last	25/06/2019	20/06/2019	28/06/2019	TRUE	21/06/2019		5127	25/07/2019	FALSE		7/18/100 N	2
OIGGERS VALLEY ROAD (1639	1639	0	21878	5127 Unsealed N Unsealed 1 Current	25/07/2019	22/07/2019	30/07/2019	FALSE			5128	26/08/2019	FALSE		7/18/100 N	2
OIGGERS VALLEY ROAD (163!	1639	0	21878	7862 Drainage Ir Drainage 1: Current	3/12/2019	26/11/2019	10/12/2019	FALSE			7863	8/12/2020	FALSE		7/18/100 N	2
AUAEPEPE ROAD (1833)	1833	0	2244	438 Unsealed N Unsealed 1 Missed	5/07/2018	2/07/2018	10/07/2018	FALSE		9/08/201	8 5602	17/08/2018	FALSE		7/18/100 N	
AUAEPEPE ROAD (1833)	1833	0	2244	805 Drainage Ir Drainage 1: Last	14/12/2018	7/12/2018	21/12/2018	TRUE	8/02/2019		7988	14/02/2020	FALSE		7/18/100 N	
AUAEPEPE ROAD (1833)	1833	0	2244	5612 Unsealed N Unsealed 1 Last	19/06/2019	14/06/2019	24/06/2019	TRUE	17/06/2019		5613	19/07/2019	FALSE		7/18/100 N	
AUAEPEPE ROAD (1833)	1833	0	2244	5613 Unsealed N Unsealed 1 Current	19/07/2019	16/07/2019	24/07/2019	FALSE			5614	20/08/2019	FALSE		7/18/100 N	
AUAEPEPE ROAD (1833)	1833	0	2244	7988 Drainage Ir Drainage 1: Current	14/02/2020	7/02/2020	21/02/2020	FALSE			7989	15/02/2021	FALSE		7/18/100 N	
APONGA ROAD (2129)	2129	0	15660	914 Drainage Ir Drainage 1: Last	14/12/2018	7/12/2018	21/12/2018	TRUE	15/02/2019		8206	21/02/2020	FALSE		7/18/100 N	1
APONGA ROAD (2129)	2129	0	15660	6378 Unsealed N Unsealed 1 Last	25/06/2019	20/06/2019	28/06/2019	TRUE	20/06/2019		6379	25/07/2019	FALSE		7/18/100 N	1
APONGA ROAD (2129)	2129	0	15660	6379 Unsealed N Unsealed 1 Current	25/07/2019	22/07/2019	30/07/2019	FALSE			6380	26/08/2019	FALSE		7/18/100 N	1
APONGA ROAD (2129)	2129	0	15660	8206 Drainage Ir Drainage 1: Current	21/02/2020	14/02/2020	28/02/2020	FALSE			8207	22/02/2021	FALSE		7/18/100 N	1
APONGA ROAD (2129)	2129	15606	15660	193 Sealed Net Sealed 3 M Last	5/07/2018	28/06/2018	12/07/2018	TRUE	21/08/2018			9/09/2018	FALSE		7/18/100 N	
UNARUNA ROAD (2278)	2278	0	9376	960 Drainage Ir Drainage 1: Last	11/12/2018	4/12/2018	18/12/2018	TRUE	22/01/2019		8298	29/01/2020	FALSE		7/18/100 N	
UNARUNA ROAD (2278)	2278	0	9376	6776 Unsealed N Unsealed 1 Last	27/06/2019	24/06/2019	2/07/2019	TRUE	26/06/2019		6777	29/07/2019	FALSE		7/18/100 N	
UNARUNA ROAD (2278)	2278	0	9376	6777 Unsealed N Unsealed 1 Current	29/07/2019	24/07/2019	1/08/2019	FALSE			6778	28/08/2019	FALSE		7/18/100 N	
UNARUNA ROAD (2278)	2278	0	9376	8298 Drainage Ir Drainage 1: Current	29/01/2020	21/01/2020	5/02/2020	FALSE			8299	29/01/2021	FALSE		7/18/100 N	
UNARUNA ROAD (2278)	2278	9326	9376	232 Sealed Net Sealed 1 M Missed	6/07/2018	3/07/2018	11/07/2018	FALSE		9/08/201	8 3994	21/08/2018	FALSE		7/18/100 N	
UNARUNA ROAD (2278)	2278	9326	9376	3994 Sealed Net Sealed 1 M Last	7/08/2018	2/08/2018	10/08/2018	TRUE	21/08/2018			6/09/2018	FALSE		7/18/100 N	
EST COAST ROAD (KOHUKC	2543	0	12351	313 Sealed Net Sealed 1 M Missed	4/07/2018	29/06/2018	9/07/2018	FALSE		9/08/201	8 4514	21/08/2018	FALSE		7/18/100 N	:
EST COAST ROAD (KOHUKC	2543	0	39720	1082 Drainage Ir Drainage 1: Last	29/01/2019	21/01/2019	5/02/2019	TRUE	14/03/2019		8542	19/03/2020	FALSE		7/18/100 N	3
/EST COAST ROAD (KOHUKC	2543	0	12351	4524 Sealed Net Sealed 1 M Last	20/06/2019	17/06/2019	25/06/2019	TRUE	18/06/2019		4525	22/07/2019	FALSE		7/18/100 N	1
EST COAST ROAD (KOHUKC	2543	0	12351	4525 Sealed Net Sealed 1 M Current	22/07/2019	17/07/2019	25/07/2019	FALSE			4526	21/08/2019	FALSE		7/18/100 N	:
/EST COAST ROAD (KOHUKC	2543	0	39720	8542 Drainage Ir Drainage 1: Current	19/03/2020	12/03/2020	26/03/2020	FALSE			8543	19/03/2021	FALSE		7/18/100 N	
EST COAST ROAD (KOHUKC	2543	12351	25167	314 Sealed Net Sealed 1 M Missed	9/07/2018	4/07/2018	12/07/2018	FALSE		9/08/201	8 4527	21/08/2018	FALSE		7/18/100 N	
EST COAST ROAD (KOHUKC	2543	12351	25167	4537 Sealed Net Sealed 1 M Last	20/06/2019	17/06/2019	25/06/2019	TRUE	18/06/2019		4538	22/07/2019	FALSE		7/18/100 N	
EST COAST ROAD (KOHUKC	2543	12351	25167	4538 Sealed Net Sealed 1 M Current	22/07/2019	17/07/2019	25/07/2019	FALSE			4539	21/08/2019	FALSE		7/18/100 N	
EST COAST ROAD (KOHUKC	2543	25167	39720	673 Unsealed N Unsealed 1 Missed	9/07/2018	4/07/2018	12/07/2018	FALSE		9/08/201	8 7608	8/08/2018	FALSE		7/18/100 N	
EST COAST ROAD (KOHUKC	2543	25167	39720	7618 Unsealed N Unsealed 1 Last	20/06/2019	17/06/2019	25/06/2019	TRUE	17/06/2019		7619	22/07/2019	FALSE		7/18/100 N	
EST COAST ROAD (KOHUKC	2543	25167	39720	7619 Unsealed N Unsealed 1 Current	22/07/2019	17/07/2019	25/07/2019	FALSE			7620	21/08/2019	FALSE		7/18/100 N	

Road Name	Road S	tart E	nd A	Asset ID Cyc Act Tyr Cyc Act Fre Cyc Act Sta	Due Date	First Date Okay	Last Date Okay	Completed	Completed Date	Missed Date	Next Recor No	ext Due Date	Audited	Audit Resu Audit Resu Audit Comı Audit	ed Date Contract	Length
DUNCAN ROAD (KAINGARO	DA 1656	0	15890	748 Drainage Ir Drainage 1 Last	4/09/2018	28/08/2018	11/09/2018	TRUE	25/09/2018		7874	1/10/2019	FALSE		7/18/100 N	15890
DUNCAN ROAD (KAINGARO	DA 1656	0	1577	2810 Sealed Net Sealed 1 M Last	24/06/2019	19/06/2019	27/06/2019	TRUE	20/06/2019		2811	24/07/2019	FALSE		7/18/100 N	1577
<b>DUNCAN ROAD (KAINGARO</b>	DA 1656	0	1577	2811 Sealed Net Sealed 1 M Current	24/07/2019	19/07/2019	29/07/2019	FALSE			16493	23/08/2019	FALSE		7/18/100 N	1577
<b>DUNCAN ROAD (KAINGARO</b>	DA 1656	0	15890	7874 Drainage Ir Drainage 1 Current	1/10/2019	24/09/2019	8/10/2019	FALSE			7875	6/10/2020	FALSE		7/18/100 N	15890
DUNCAN ROAD (KAINGARO	DA 1656	1577	15890	16156 Unsealed NUnsealed 1 Last	3/07/2019	28/06/2019	8/07/2019	TRUE	2/07/2019		17160	2/08/2019	FALSE		7/18/100 N	14313
<b>DUNCAN ROAD (KAINGARO</b>	DA 1656	1577	15890	17160 Unsealed N Unsealed 1 Current	2/08/2019	30/07/2019	7/08/2019	FALSE			17597	3/09/2019	FALSE		7/18/100 N	14313
KOHUMARU ROAD (1862)	1862	0	20085	814 Drainage Ir Drainage 1 Last	7/08/2018	31/07/2018	14/08/2018	TRUE	17/08/2018		8006	23/08/2019	FALSE		7/18/100 N	20085
KOHUMARU ROAD (1862)	1862	0	20085	5685 Unsealed NUnsealed 1 Missed	25/03/2019	20/03/2019	28/03/2019	FALSE		23/04/201	9 5686	7/05/2019	FALSE		7/18/100 N	20085
KOHUMARU ROAD (1862)	1862	0	20085	5688 Unsealed N Unsealed 1 Last	9/07/2019	4/07/2019	12/07/2019	TRUE	5/07/2019		5689	8/08/2019	FALSE		7/18/100 N	20085
KOHUMARU ROAD (1862)	1862	0	20085	5689 Unsealed N Unsealed 1 Current	8/08/2019	5/08/2019	13/08/2019	FALSE			5690	9/09/2019	FALSE		7/18/100 N	20085
KOHUMARU ROAD (1862)	1862	0	20085	8006 Drainage Ir Drainage 1 Current	23/08/2019	16/08/2019	30/08/2019	FALSE			8007	28/08/2020	FALSE		7/18/100 N	20085
KOHUMARU ROAD (1862)	1862	19957	20085	107 Sealed Net Sealed 3 M Last	17/07/2018	10/07/2018	24/07/2018	TRUE	17/08/2018			21/09/2018	FALSE		7/18/100 N	128
MARTIN ROAD (KAEO) (19	57 1957	0	9361	845 Drainage Ir Drainage 1 Last	13/07/2018	6/07/2018	20/07/2018	TRUE	17/07/2018		8068	19/07/2019	FALSE		7/18/100 N	9361
MARTIN ROAD (KAEO) (19	57 1957	0	2420	3376 Sealed Net Sealed 3 M Last	7/05/2019	30/04/2019	14/05/2019	TRUE	3/05/2019		3377	8/08/2019	FALSE		7/18/100 N	2420
MARTIN ROAD (KAEO) (19	57 1957	0	2420	3377 Sealed Net Sealed 3 M Current	8/08/2019	1/08/2019	15/08/2019	FALSE			19145	11/11/2019	FALSE		7/18/100 N	2420
MARTIN ROAD (KAEO) (19	57 1957	0	9361	8068 Drainage Ir Drainage 1 Current	19/07/2019	12/07/2019	26/07/2019	FALSE			8069	24/07/2020	FALSE		7/18/100 N	9361
MARTIN ROAD (KAEO) (19	57 1957	2420	9361	5927 Unsealed N Unsealed 1 Last	5/07/2019	2/07/2019	10/07/2019	TRUE	2/07/2019		5928	6/08/2019	TRUE	4 Fail - Missii Drainage is	4/07/2019 7/18/100 N	6941
MARTIN ROAD (KAEO) (19	57 1957	2420	9361	5928 Unsealed N Unsealed 1 Current	6/08/2019	1/08/2019	9/08/2019	FALSE			5929	5/09/2019	FALSE		7/18/100 N	6941
PUKETOTARA ROAD (2196	) 2196	0	13165	2266 Drainage Ir Drainage 1 Last	8/02/2019	31/01/2019	15/02/2019	TRUE	7/03/2019		15793	12/03/2020	FALSE		7/18/101 N	13165
PUKETOTARA ROAD (2196	) 2196	0	4712	10833 Sealed Net Sealed 1 M Last	4/07/2019	1/07/2019	9/07/2019	TRUE	10/07/2019		10834	9/08/2019	FALSE		7/18/101 N	4712
PUKETOTARA ROAD (2196	) 2196	0	4712	10834 Sealed Net Sealed 1 M Current	9/08/2019	6/08/2019	14/08/2019	FALSE			17474	10/09/2019	FALSE		7/18/101 N	4712
PUKETOTARA ROAD (2196	) 2196	0	13165	15793 Drainage Ir Drainage 1 Current	12/03/2020	5/03/2020	19/03/2020	FALSE			15794	12/03/2021	FALSE		7/18/101 N	13165
PUKETOTARA ROAD (2196	) 2196	4712	5218	11893 Sealed Net Sealed 3 M Last	30/04/2019	18/04/2019	7/05/2019	TRUE	30/04/2019		18527	1/08/2019	FALSE		7/18/101 N	506
PUKETOTARA ROAD (2196	) 2196	4712	5218	18527 Sealed Net Sealed 3 M Current	1/08/2019	25/07/2019	8/08/2019	FALSE			21793	4/11/2019	FALSE		7/18/101 N	506
PUKETOTARA ROAD (2196	) 2196	5218	13165	1883 Unsealed NUnsealed 1 Missed	27/07/2018	24/07/2018	1/08/2018	FALSE		23/08/201	8 14092	10/09/2018	FALSE		7/18/101 N	7947
PUKETOTARA ROAD (2196	) 2196	5218	13165	14101 Unsealed NUnsealed 1 Last	22/07/2019	17/07/2019	25/07/2019	TRUE	10/07/2019		14102	9/08/2019	FALSE		7/18/101 N	7947
PUKETOTARA ROAD (2196	) 2196	5218	13165	14102 Unsealed NUnsealed 1 Current	9/08/2019	6/08/2019	14/08/2019	FALSE			14103	10/09/2019	FALSE		7/18/101 N	7947

Road Name	Road S	tart I	End	Asset ID	Cyc Act Tyr Cyc Act Fre Cyc Act Sta	Due Date	First Date Oka l	Last Date Okay (	Completed Co	mpleted Date	Missed Date	Next Recor Ne	ext Due Date	Audited	Audit Resu Audit Resu Audit Com Audited Da Contract	Length
HENDERSON BAY ROAD (17	7. 1754	0	568	39 41	6 Unsealed N Unsealed 1 Missed	4/07/2018	29/06/2018	9/07/2018	FALSE		9/08/2018	5421	17/08/2018	FALSE	7/18/100 N	5689
HENDERSON BAY ROAD (17	7. 1754	0	568	39 77	78 Drainage Ir Drainage 1 Last	19/09/2018	12/09/2018	26/09/2018	TRUE	28/09/2018		7934	4/10/2019	FALSE	7/18/100 N	5689
HENDERSON BAY ROAD (17	7. 1754	0	568	39 543	1 Unsealed N Unsealed 1 Last	19/06/2019	14/06/2019	24/06/2019	TRUE	14/06/2019		5432	19/07/2019	FALSE	7/18/100 N	5689
HENDERSON BAY ROAD (17	7. 1754	0	568	39 543	32 Unsealed N Unsealed 1 Current	19/07/2019	16/07/2019	24/07/2019	FALSE			5433	20/08/2019	FALSE	7/18/100 N	5689
HENDERSON BAY ROAD (17	7. 1754	0	568	39 793	34 Drainage Ir Drainage 1 Current	4/10/2019	27/09/2019	11/10/2019	FALSE			7935	9/10/2020	FALSE	7/18/100 N	5689
RARAWA BEACH ROAD (22	3 2236	0	358	33 56	4 Unsealed Nunsealed 1 Missed	3/07/2018	28/06/2018	6/07/2018	FALSE		9/08/2018	6704	2/08/2018	FALSE	7/18/100 N	3583
RARAWA BEACH ROAD (22	3 2236	0	358	33 95	1 Drainage Ir Drainage 1 Last	20/09/2018	13/09/2018	27/09/2018	TRUE	28/09/2018		8280	4/10/2019	FALSE	7/18/100 N	3583
RARAWA BEACH ROAD (22	3 2236	0	358	33 670	7 Unsealed N Unsealed 1 Missed	5/11/2018	31/10/2018	8/11/2018	FALSE		30/11/2018	6708	5/12/2018	FALSE	7/18/100 N	3583
RARAWA BEACH ROAD (22	3 2236	0	358	33 671	4 Unsealed N Unsealed 1 Last	21/06/2019	18/06/2019	26/06/2019	TRUE	18/06/2019		6715	23/07/2019	FALSE	7/18/100 N	3583
RARAWA BEACH ROAD (22	3 2236	0	358	33 671	5 Unsealed N Unsealed 1 Current	23/07/2019	18/07/2019	26/07/2019	FALSE			6716	22/08/2019	FALSE	7/18/100 N	3583
RARAWA BEACH ROAD (22	3 2236	0	358	33 828	30 Drainage Ir Drainage 1 Current	4/10/2019	27/09/2019	11/10/2019	FALSE			8281	9/10/2020	FALSE	7/18/100 N	3583
TE HAPUA ROAD (2411)	2411	0	1053	38 62	20 Unsealed N Unsealed 1 Missed	2/07/2018	27/06/2018	5/07/2018	FALSE		9/08/2018	7180	1/08/2018	FALSE	7/18/100 N	10538
TE HAPUA ROAD (2411)	2411	0	1246	57 101	8 Drainage Ir Drainage 1 Last	25/09/2018	18/09/2018	2/10/2018	TRUE	9/10/2018		8414	15/10/2019	FALSE	7/18/100 N	12467
TE HAPUA ROAD (2411)	2411	0	1053	38 719	00 Unsealed N Unsealed 1 Last	27/06/2019	24/06/2019	2/07/2019	TRUE	26/06/2019		7191	29/07/2019	FALSE	7/18/100 N	10538
TE HAPUA ROAD (2411)	2411	0	1053	38 719	1 Unsealed N Unsealed 1 Current	29/07/2019	24/07/2019	1/08/2019	FALSE			7192	28/08/2019	FALSE	7/18/100 N	10538
TE HAPUA ROAD (2411)	2411	0	1246	67 841	4 Drainage Ir Drainage 1 Current	15/10/2019	8/10/2019	22/10/2019	FALSE			8415	20/10/2020	FALSE	7/18/100 N	12467
TE HAPUA ROAD (2411)	2411	10538	1246	57 427	76 Sealed Net Sealed 3 M Last	17/07/2019	10/07/2019	24/07/2019	TRUE	10/07/2019		18290	17/10/2019	FALSE	7/18/100 N	1929
TE HAPUA ROAD (2411)	2411	10538	1246	57 1829	00 Sealed Net Sealed 3 M Current	17/10/2019	10/10/2019	24/10/2019	FALSE			20359	24/01/2020	FALSE	7/18/100 N	1929
TE PAKI STREAM ROAD (24	2 2424	0	373	38 62	26 Unsealed N Unsealed 1 Missed	2/07/2018	27/06/2018	5/07/2018	FALSE		9/08/2018	7230	1/08/2018	FALSE	7/18/100 N	3738
TE PAKI STREAM ROAD (24	2 2424	0	373	38 102	24 Drainage Ir Drainage 1 Last	25/09/2018	18/09/2018	2/10/2018	TRUE	3/10/2018		8426	9/10/2019	FALSE	7/18/100 N	3738
TE PAKI STREAM ROAD (24	2 2424	0	373	38 724	O Unsealed N Unsealed 1 Last	27/06/2019	24/06/2019	2/07/2019	TRUE	26/06/2019		7241	29/07/2019	FALSE	7/18/100 N	3738
TE PAKI STREAM ROAD (24	2 2424	0	373	38 724	11 Unsealed N Unsealed 1 Current	29/07/2019	24/07/2019	1/08/2019	FALSE			7242	28/08/2019	FALSE	7/18/100 N	3738
TE PAKI STREAM ROAD (24	2 2424	0	373	842	26 Drainage Ir Drainage 1 Current	9/10/2019	2/10/2019	16/10/2019	FALSE			8427	14/10/2020	FALSE	7/18/100 N	3738