DATABASE HEALTH INDEX - DASHBOARD

KEY:
- On or exceeding target
- One grade, or between 0 and 15 below captured value
- Greater than one grade, or 15 below captured value

Area: MANAWATU WHANGANUI M&O
Date: 13/08/2013

	Category	Measures	Performance				
			Result	Measure	Expected Value	Category	Expected Value
Carriageway Asset Inventory	Capital Projects	Major capital projects completed v RAMM (in last 6 -30 months)	see attached report			-	-
		Minor capital or safety improvement projects v RAMM (in last 6 -30 months)	see attached report				
	Surfacing	% of Network surfaced in RAMM over previous 4 – 15 months	9.1%	Grade 1	Grade 1	87	81
		% Surfaces at least 50% older than expected age	10.0%	Grade 3	Grade 2		
		% of Network with no surfacing	0.0%	Grade 1	Grade 1		
		Illogical Records inc. % (SAC with chipseal, Low and high widths, Alignment of traffic volumes v pavement use)	1.0%	Grade 1	Grade 1		
	Pavement Layer	Proportion of Network with layer Information	75.9%	Grade 2	Grade 3	50	77
		New layer length in previous 6 – 30 months	0.9%	Grade 4	Grade 2		
		Illogical records (Pavement Layers v Incorrect Surfacing)	22.7%	Grade 3	Grade 1		
	Road Marking	Breakdown of road markings by type	see attached report			-	-
	Treatment Length	Proportion of very short (< 20m) TLs	0.4%	Grade 1	Grade 1	81	85
		Proportion of very long (> 2000m) TLs	2.3%	Grade 1	Grade 1		
		Proportion of TLs with < 80% coverage of major surfacing	15.4%	Grade 3	Grade 1		
		% updated in last 5 years	59.3%	Grade 3	Grade 2		
	Forward Works Programme	Date FWP last updated		-	-	0	90
		Proportion of network identified for treatment in next ten years (from FWP)	0.0%	Grade 5	Grade 2		
		FWP v surfacings (% surfacings in last year conflicting with first 2 years of FWP excluding 2nd coats)		Grade 4	Grade 1		
		Evidence of active MIS strategy, reasons for treatments listed and detailed	0.0%	Grade 5	Grade 1		
Collected Data	Carriageway Rating	Percentage rated in last year	0.0%	Grade 5	Grade 1	0	90
	High Speed Data	% network meeting standards for roughness, rutting and texture (Roads surveyed in last year)	100.0%	Grade 1	Grade 1	91	90
		% network meeting standards for FWD (Roads surveyed in last 5years)	73.8%	Grade 2	Grade 1		
		% network meeting standards for SCRIM (Roads surveyed in last year)	100.0%	Grade 1	Grade 1		
	Maintenance Activity	Items per km for PA and SU cost groups in previous 4 – 15 months v Regional Average	64.7%	Grade 3	Grade 2	85	83
		Spread of location in previous 4 - 15 months (proportion located at carriageway start)	1.2%	Grade 1	Grade 2		
		Distribution of maintenance patch sizes by Hierarchy	see attached report				
		Breakdown of Maintenance Cost Activities	see attached report				
		% of Maintenance Activity where fault type is "Unknown"	2.2%	Grade 1	Grade 1		
	Miscellaneous	No. of test pits with layer data recorded	81	no.	-		
		No. of LTPP sites recorded in RAMM	4	no.	-		
	Traffic Count	Latest ADT Counts	31/12/2012	-	-	85	70
		Latest ADT Estimates	31/12/2011	-	-		
		% loading estimate (i.e. not default)	84.8%	Grade 2	Grade 2		
Non-Carriageway Asset Inventory	Structures	No. of Pavement Type "Bridge" v No. of Bridges > 50m in length in BDS	0.0%	Grade 5	Grade 1	50	85
		No. Large Culverts v No. BDS	102.4%	Grade 1	Grade 2		
		Retaining Walls	195	no.	-		
		Gantries (see attached report for locations)	3	no.	-		
		Barriers in RAMM (m)	63983	m	-		
		End Treatments in RAMM	see attached report				
	Drainage	Culverts per km v Regional Average (Rural)	82.1%	Grade 2	Grade 2	67	80
		Catchpits per km v Regional Average (Urban)	109.5%	Grade 1	Grade 2		
		Manholes per km v Regional Average (Urban)	0%	NA	-		
		Subsoil Drains per km v Regional Average (Rural)	84.2%	Grade 2	Grade 2		
		% of Drainage (Construction Date in previous 4 – 15 months)	0.0%	Grade 4	Grade 2		
	Surface Water Channels	Surfaced SWC per km v Regional Average (Urban)	95.2%	Grade 1	Grade 2	64	77
		Earth SWC per km v Regional Average (Rural)	90.5%	Grade 1	Grade 2		
		Sealed SWC renewal activity (Construction Date in previous 4 – 27 months)	0.2%	Grade 4	Grade 2		
	Signs	Signs per km v Regional Average	73.4%	Grade 2	Grade 2	39	78
		Large Signs >4.0m^2 (see attached report for quantity by type)	113	no.	-		
		ITS VMS	9	no.	-		
		% of Signs with renewal date in last 4 - 15 months	0.4%	Grade 4	Grade 2		
		No. Frangible bases in RAMM	0	no.	-		
	Streetlights	Streetlights per km v Regional Average	50.0%	Grade 3	Grade 2	50	82
		Frangible Base type no.	29	no.	-		
		Shear Base type no.	367	no.	-		
		% of Streetlight Poles with renewal date in last 4 – 15 months	0.0%	Grade 4	Grade 2		
		Duplicates or near duplicates plus poles with no light or bracket	0.0%	Grade 1	Grade 1		
	Footpaths & Cycleways	Total length of Footpath and Cycleways (see attached tables for listings)	see attached report			-	-
	Signal Controlled Intersections	Signal Controlled Intersections (see attached report for locations)	13	no.	-	-	-
	Rest Areas	Number of rest areas	51	no.	-	-	-
	Weigh Stations	Number of Weigh Stations (see attached report for locations)	7	no.	-	-	-

DATABASE HEALTH INDEX DASHBOARD - PROJECTS

Area: MANAWATU WHANGANUI M&O
Date: 13/08/2013

In RAMM (Y/N/P)	Project Name	SH	RS	Dir	RP		Comments	Year
P	TRW 1706 SH4 Lakes Hill Realignment	4	188	Both	2.4 - 2.9	Carriageway not updated?, 2nd coat only 3/2011 pavement layer & drainage missing, markings no construction date	2580-2977	08 - 10
Y	SH3 Lonon St Improvements	3	384	Both	15.4-15.6	Construction dates missing	Includes traffic islands	09/10
P	TRW1711 SH3 Marangai Passing Lane	3	402	Increasing	8.76 - 10.67	1st coat 11.9 2nd coat 14.1 no pavement layer or markings, drainage and signs construction date missing		09 - 12
N	Edwards Hill	4	148	Both	8.13		Work carried out by Downer HMW08	10/11
N	SH4 Seal Widening	4	148	Both	5.9-5.7	5680-5906 2009 Reseal no 1st coat, No Pavement data	HMW08 constructed 10/11 sealed 2012	10/11
P	North of McLeans realignment	4	158	Both	10.955	No 1st coat or pavement layer, default drainage & markings and sign data no construction date. Incorrect measurment ground height for barriers should be in metres.	2 sites. Carriageway updated already	10/11
N	Decons Rd AWT	1	815	Both	11.1 - 11.7		completed under TRW1741 AWT contract. Inframax	12/13
N	Waiouru Safety barriers	1	815	Both	4.08 - 4.76		completed under TRW1741 AWT contract. Inframax	12/13
N	Kai Iwi No Passing Lanes (guard railing)	3	371	Increasing	12		HMW08	12/13
N	Kai Iwi Bridge Guardrailing	3	384	Increasing	1		HMW08. Guardrailing - small amount of widening just into side road	12/13
N	Kai Iwi Schools signs	3	384	Both	0.54 - 0.91		HMW08, Install ITS signs, relocate other signs, added derestriction signs	12/13
P	Whangaehu AWT	3	402	Both	12.61 - 12.91	Historical surfacings need removed date, Pavement Layers Reconstructed Treatment overlay? Railings & Markings not updated, sign install date missing	Guardrailing with TRT1319 AWT Contract Taranaki Civil construction	12/13
N	RS 158 guardrail extension	4	158		11		HMW08, guardrail	12/13
N	*RS176 AWT*	*4*	*158*	*Both*	*16.2 - 176/0.4*		*completed under TRW1741 AWT contract. Inframax*	12/13
N	Aberfeldy Hill South AWT	4	206	Both	7.1 - 7.4		completed under TRW1741 AWT contract. Inframax	12/13
N	SH4 Seal Widening	4	148	Both	3.5		Possibly constructed 11/12 financial year	11/12
N	*RS176 AWT*	*4*	*176*	*Both*	*0.4*		*completed under TRW1741 AWT contract. Inframax*	

DATABASE HEALTH INDEX - REGIONAL AVERAGES

Area: MANAWATU WHANGANUI M&O
Date: 13/08/2013

Regional Averages

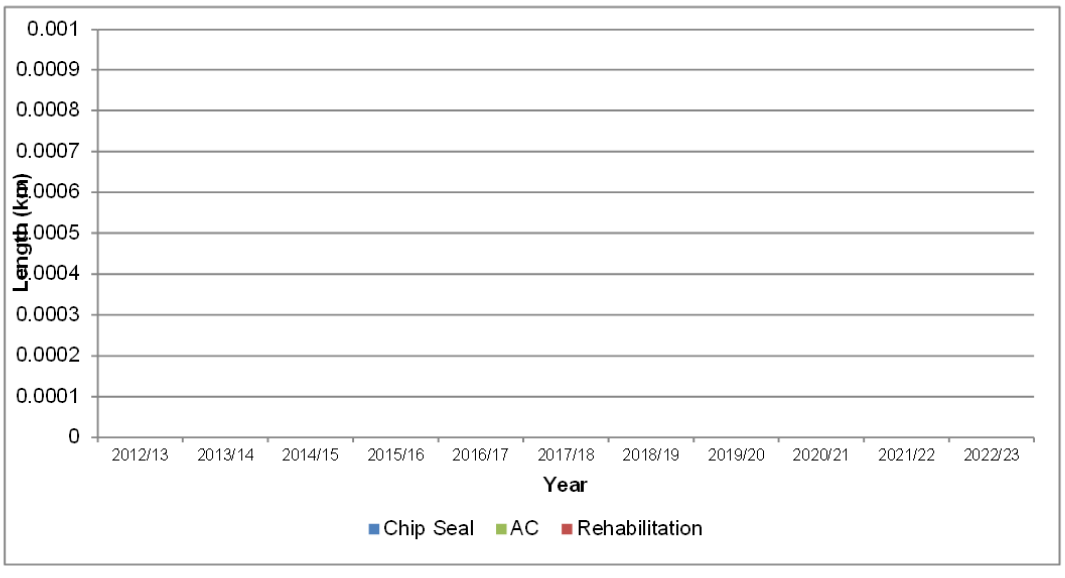
Asset	Region	Hierarchy					Regional Average
		High Volume	National Strategic	Regional Strategic	Regional Connector	Regional Distributor	
Maintenance Costs (no. of pavement and surfacing faults per km)	**Regional Average for route type**	**3**	**2**	**6**	**4**	**5**	4
	Wellington	2	1	5	-	6	
	Napier	4	2	5	-	4	
	Gisborne	-	-	7	4	8	
	East Wanganui	4	2	2	3	3	
	West Wanganui	-	3	9	5	3	
	Manawatu Whanganui	-	2	2	4	3	
Culverts (Rural) (no. per km)	**Regional Average for route type**	**3**	**6**	**8**	**6**	**8**	7
	Wellington	3	2	8	-	8	
	Napier	4	7	9	-	7	
	Gisborne	-	-	8	11	9	
	East Wanganui	4	6	6	5	4	
	West Wanganui	-	4	7	3	4	
	Manawatu Whanganui	-	5	7	4	7	
Catchpit (Urban) (no. per km)	**Regional Average for route type**	**13**	**11**	**9**	**13**	**9**	10
	Wellington	14	13	10	-	15	
	Napier	10	12	11	-	9	
	Gisborne	-	-	0	4	5	
	East Wanganui	0	11	10	16	9	
	West Wanganui	-	12	8	14	12	
	Manawatu Whanganui	-	10	9	16	11	
Manholes (urban) (no. per km)	**Regional Average for route type**	**4**	**1**	**1**	**2**	**1**	1
	Wellington	5	0	4	-	0	
	Napier	0	0	2	-	1	
	Gisborne	-	-	0	1	0	
	East Wanganui	0	1	0	1	0	
	West Wanganui	-	0	0	2	1	
	Manawatu Whanganui	-	0	1	1	0	
Subsoil Drain (Rural) (m per km)	**Regional Average for route type**	**25**	**65**	**150**	**48**	**59**	84
	Wellington	22	6	43	-	201	
	Napier	107	34	223	-	14	
	Gisborne	-	-	151	93	148	
	East Wanganui	0	79	101	14	39	
	West Wanganui	-	106	137	24	33	
	Manawatu Whanganui	-	75	110	14	72	
Surfaced SWC (Urban) (m per km)	**Regional Average for route type**	**1507**	**1721**	**1528**	**1223**	**1401**	1505
	Wellington	1515	1561	1695	-	1215	
	Napier	1488	1447	1815	-	1623	
	Gisborne	-	-	0	426	784	
	East Wanganui	0	1866	1597	1377	1596	
	West Wanganui	-	957	1378	1580	1771	
	Manawatu Whanganui	-	1259	1183	1377	1772	
Earth SWC (Rural) (m per km)	**Regional Average for route type**	**467**	**941**	**933**	**1481**	**1134**	1027
	Wellington	444	75	1178	-	992	
	Napier	313	523	448	-	718	
	Gisborne	-	-	1087	1403	1328	
	East Wanganui	869	1173	1143	1005	940	
	West Wanganui	-	1139	1213	1704	1228	
	Manawatu Whanganui	-	942	1086	926	1109	
Signs (no. per km)	**Regional Average for route type**	**23**	**16**	**16**	**15**	**17**	17
	Wellington	23	18	28	-	30	
	Napier	26	14	16	-	15	
	Gisborne	-	-	17	18	14	
	East Wanganui	27	17	16	14	17	
	West Wanganui	-	10	10	12	18	
	Manawatu Whanganui	-	12	12	9	14	
Streetlights (no. per km)	**Regional Average for route type**	**13**	**2**	**2**	**1**	**1**	2
	Wellington	13	8	6	-	2	
	Napier	17	2	1	-	2	
	Gisborne	-	-	0	1	2	
	East Wanganui	5	1	1	1	0	
	West Wanganui	-	0	1	0	0	
	Manawatu Whanganui	-	1	1	1	0	

DATABASE HEALTH INDEX DASHBOARD - REPORTS

Area: MANAWATU WHANGANUI M&O

Date: 13/08/2013

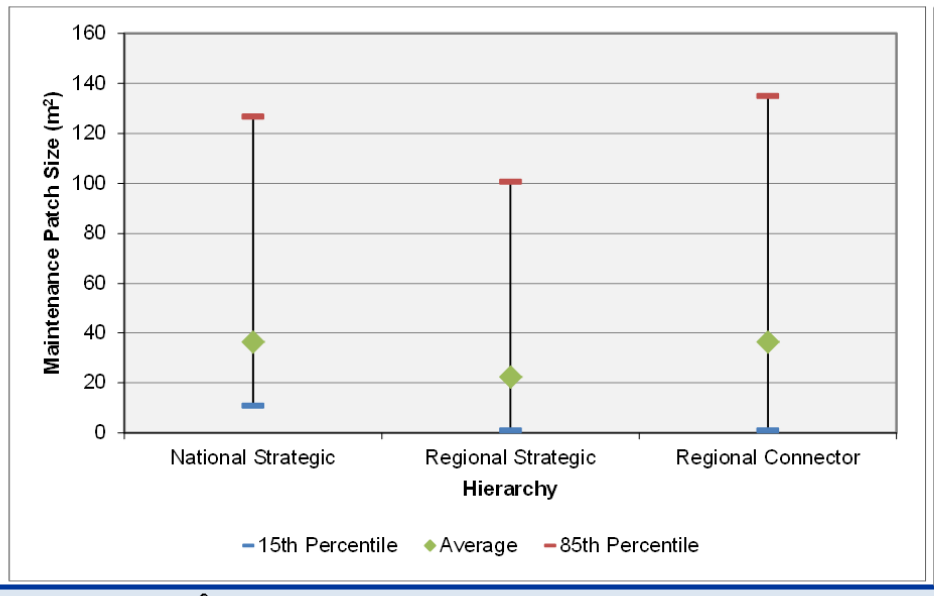
Breakdown of 10 Year FWP by Treatment Type



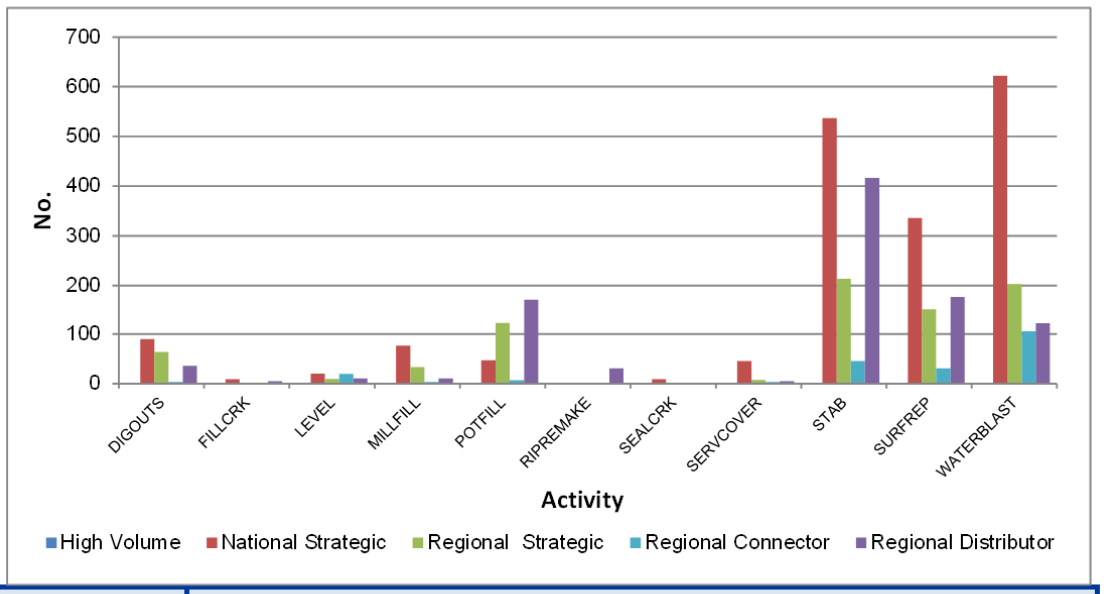
Signalised Intersections in RAMM

Road Name	Location
003-0384	14867
003-0471	430
003-0471	1859
003-0471	1030
003-0471	2260
003-0471	2960
003-0474-I	435
003-0474-I	868
003-0474-I	1307
004-0223	13940
004-0223	13960
054-0038/02.70-D	3560
054-0038/02.70-I	3544

Distribution of maintenance patch sizes by Hierarchy



Breakdown of Maintenance Cost Activities last 3 years



Large Signs >4.0m²

Sign Type	No.
Advance direction (Map) - "T" or cross roads	23
Advance direction (Stack) - "T" intersection	1
Feature TURN left/right "_____"m	1
Intersection Direction - "T"	2
Two services "_____"m ON left/right	1
Advance direction (Map) - Roundabout	4
Advance direction (Stack) - Cross roads	4
Advanced lane direction [Message]	2
Chevron Board	1
Chevron Board - Advisory speed 45km/h	2
Confirmation Destination	18
ELECTRONIC WARNING - VARIABLE	1
Intersection Direction - with route marker	1
Major tourist attractions - special information	2
Position sign - One line description with chevron	1
ROAD INFORMATION	9
TOURIST DRIVE with Route marker and Chevron	1
Threshold Sign - Place Name + Speed Limit	28
Warning (Miscellaneous Sign) - User defined	8
Welcome To	3
Total	113

End Treatments in RAMM

End Treatment Type	No.
Armorflex X 350	206
Breakaway Cable Terminal (Bull Nose)	247
Bridge Plate/Bridge Connector	97
Buried in Back Slope	48
Cable end	6
ET2000	41
Fishtail/Butterfly end	30
Fleat 350	98
Great System Crash Units	0
M23 Compliant	1
MELT(Similar to BCT)	4
Not Applicable	337
Regent	9
SKT 350	6
Steel Wire Rope End Anchor Block	7
TAU II	0
Terminal end	41
Texas Twist	6
Trailing End Anchor Units	1
Unknown	17
Total	1202

Breakdown of road markings by type

Please note that NZTA does not require recording of standard centerline and edgeline lengths and therefore these quantities may not include some or all of these items

Marking Material	length (m)
Reflectorised Paint	1238532
Raised Pavement Marker	29197
Cold Applied Plastic	245485
Paint	1073162
Long Life Flat	14811
Unknown	55080

Weigh Stations

Road Name	Location	Side
002-0758	11944	Left
003-0491	6106	Right
01N-0842	8142	Left
01N-0865	16182	Right
01N-0914	2130	Left
01N-0927-C003	1543	Left
01N-0939	14154	Right

DATABASE HEALTH INDEX DASHBOARD - REPORTS

Area: **MANAWATU WHANGANUI M&O**

Date: **13/08/2013**

Footpath and CycleWays

Road Name	Location	Notes
01N-0954	12820	Ken Everett Cycleway begins
01N-0954	11665	Ken Everett Cycleway Ends

Gantries

Road Name	Location
01N-0901	10974
01N-0914	10193
01N-0927-C003	4474

DATABASE HEALTH INDEX - PARAMETERS

Measures		Description	Data Source	Grading	Greater than	Less than	NZTA Target Grade
Pavement and Footpath Inventory							
Capital Projects	Major capital projects completed v RAMM (in last 6 -30 months)	Proportion of major capital projects completed within in 6 - 30 months that have been catpured in RAMM	NZTA Regional Office, RAMM	N/A	N/A	N/A	N/A
	Minor capital or safety improvement projects v RAMM (in last 6 -30 months)	Proportion of minor capital or safety improvement projects completed within in 6 - 30 months that have been catpured in RAMM	NZTA Regional Office, RAMM	N/A	N/A	N/A	N/A
Surfacing	% of Network surfaced in RAMM over previous 4 – 15 months	Total length of Network with surface date between 4-15 months old / total length of network	RAMM surface_structure, carr_way, treatment_length	Grade 1 Grade 2 Grade 3 Grade 4	8% 5% 2%	8% 5% 2%	Grade 1
	% Surfaces 50% older than expected age	Total length of Network with surface date > 50% older than expected age / total length of network	RAMM surface_structure, carr_way	Grade 1 Grade 2 Grade 3 Grade 4	3% 7% 15%	3% 7% 15%	Grade 2
	% of Network with no surfacing	Total length of Network with no surface material / total length of network	RAMM treatment_length, carr_way	Grade 1 Grade 2 Grade 3 Grade 4	5% 15% 40%	5% 15% 40%	Grade 1
	Illogical records (SAC with chipseal, Low and high widths, Alignment of traffic volumes v pavement use)	No. Records with inconsistencies / No carriageway sections	RAMM carr_way, c_surface, traffic_loading, traffic_loading_dtl	Grade 1 Grade 2 Grade 3 Grade 4	5% 15% 40%	5% 15% 40%	Grade 1
Pavement Layer	Proportion with layer information	Total length of Network with layer material / total length of network	RAMM treatment_length, carr_way	Grade 1 Grade 2 Grade 3 Grade 4 Grade 5	90% 70% 40% 20%	90% 70% 40% 20%	Grade 3
	New Layer length in 6 – 30 months	Total length of Network with layer date between 6-30 months old / total length of network	RAMM pave_structure, carr_way, treatment_length	Grade 1 Grade 2 Grade 3 Grade 4	5% 3% 1%	5% 3% 1%	Grade 2
	Illogical records (Pavement layers v Incorrect Surfacing)	Total No. illogical Records / total No treatment lengths	RAMM carr_way, treatment_length	Grade 1 Grade 2 Grade 3 Grade 4	5% 15% 40%	5% 15% 40%	Grade 1
Road Marking	Breakdown of road markings by type	Total road marking length by type	RAMM carr_way, markings	N/A	N/A	N/A	N/A
Treatment Length	Proportion of very short < 20m TLs	Total length of Network with length < 20m / total length of network	RAMM carr_way, treatment_length	Grade 1 Grade 2 Grade 3 Grade 4	5% 15% 40%	5% 15% 40%	Grade 1
	Proportion of very long > 2000m TLs	Total length of Network with length > 2000m / total length of network	RAMM carr_way, treatment_length	Grade 1 Grade 2 Grade 3 Grade 4	5% 15% 40%	5% 15% 40%	Grade 1
	Proportion of TLs with < 80% coverage of major surfacing	Total length of Network with < 80% coverage of major surfacings / total length of network	RAMM carr_way, treatment_length	Grade 1 Grade 2 Grade 3 Grade 4	5% 15% 40%	5% 15% 40%	Grade 1
	% updated in last 5 years	Total No treatment lengths updated in last 5 years / total No TL's	RAMM carr_way, treatment_length	Grade 1 Grade 2 Grade 3 Grade 4 Grade 5	90% 70% 40% 20%	90% 70% 40% 20%	Grade 2
Forward Works Programme	Date FWP Last Updated	Date FWP last updated	RAMM treatment_length, fw_cell_treatment, fw_programme_cell, fw_programme_hdr, fw_treatment	N/A	N/A	N/A	N/A
	Proportion of network identified for treatment in next ten years (date last updated)	Length of network identified for treatment in the 10 year FWP / total network length	RAMM treatment_length, fw_cell_treatment, fw_programme_cell, fw_programme_hdr, fw_treatment	Grade 1 Grade 2 Grade 3 Grade 4 Grade 5	90% 70% 40% 20%	90% 70% 40% 20%	Grade 2
	FWP v surfacings (% surfacings in last year conflicting with first 2 years of FWP exc 2nd coats)	Total length of Network with surfacings with dates in last year with a treatment scheduled in first 2 years of FWP (excl 2nd coats) / total length in first 2 years of FWP	RAMM treatment_length, fw_cell_treatment, fw_programme_cell, fw_programme_hdr, fw_treatment	Grade 1 Grade 2 Grade 3 Grade 4	2% 5% 8%	2% 5% 6%	Grade 1
	Evidence of active MIS strategy, reasons for treatments listed and detailed	Total length of Network with MIS strategy present / Total Network Length	RAMM treatment_length, fw_cell_treatment, fw_programme_cell, fw_programme_hdr, fw_treatment	Grade 1 Grade 2 Grade 3 Grade 4 Grade 5	90% 70% 40% 20%	90% 70% 40% 20%	Grade 1
Collected Data							
Carriageway Rating	Percentage rated in last year	Total network length rated in the last year / total network length	RAMM carr_way, treatment_length, rating	Grade 1 Grade 2 Grade 3 Grade 4 Grade 5	90% 70% 40% 20%	90% 70% 40% 20%	Grade 1
High Speed Data	% network meeting standards for roughness, rutting and texture (Roads surveyed in last year)	Total length of network with roughness, rutting and texture surveyed in the last year / total network length	RAMM carr_way, treatment_length, hsd_rough, hsd_rutting,hsd_texture	Grade 1 Grade 2 Grade 3 Grade 4 Grade 5	90% 70% 40% 20%	90% 70% 40% 20%	Grade 1
	% network meeting standards for FWD (Roads surveyed in last 5 years)	Total length of network with FWD surveyed in the last 5 years / total network length	RAMM carr_way, treatment_length,falling_weight	Grade 1 Grade 2 Grade 3 Grade 4 Grade 5	90% 70% 40% 20%	90% 70% 40% 20%	Grade 1
	% network meeting standards for SCRIM (Roads surveyed in last year)	Total length of network with SCRIM surveyed in the last year / total network length	RAMM carr_way, treatment_length,skid_resistance	Grade 1 Grade 2 Grade 3 Grade 4 Grade 5	90% 70% 40% 20%	90% 70% 40% 20%	Grade 1

DATABASE HEALTH INDEX - PARAMETERS

	Measures	Description	Data Source	Grading	Greater than	Less than	NZTA Target Grade
Maintenance Costs	Items per km for PA and SU cost groups in previous 4 – 15 months vs Regional Average	Total number of pavement and surfacing activity in last 4-15 months/Total Carriageway Length vs Regional Average	RAMM carr_way, mc_cost	Grade 1 Grade 2 Grade 3 Grade 4 Grade 5	90% 70% 40% 20%	 90% 70% 40% 20%	Grade 2
	Spread of location in previous 4 - 15 months (proportion located at carriageway start)	Total number of pavement and surfacing activity in last 4-15 months at carriageway start / Total pavement and surfacing activity	RAMM carr_way, mc_cost	Grade 1 Grade 2 Grade 3 Grade 4	 5% 15% 40%	5% 15% 40%	Grade 2
	Distribution of maintenance patch sizes by Hierarchy	Distribution of maintenance patch sizes by State Highway Classification	RAMM carr_way, mc_cost	N/A	N/A	N/A	N/A
	Breakdown of Maintenance Cost Activities	Breakdown of maintenance cost actvities by type for the last 3 years by State Highway Classification	RAMM carr_way, mc_cost	N/A	N/A	N/A	N/A
	% of Maintenance Activity where fault type is "Unknown"	Percentage of maintenance cost activity recorded as unknown for the last 3 years.	RAMM carr_way, mc_cost	Grade 1 Grade 2 Grade 3 Grade 4	 5% 15% 40%	5% 15% 40%	Grade 1
Miscellaneous	No. Test Pits with layer data recorded	Total number of test pit records	RAMM carr_way, pave_test_pit_hdr	N/A	N/A	N/A	N/A
	No. of LTPP Sites recorded in RAMM	Total number of LTPP Sites	RAMM carr_way, features	N/A	N/A	N/A	N/A
Traffic Count	Latest ADT Counts	Latest date of counts	RAMM traffic_loading	N/A	N/A	N/A	N/A
	Latest ADT Estimates	Latest date of Estimates	RAMM traffic_loading	N/A	N/A	N/A	N/A
	% loading estimate (i.e. not default)	Total no. loading estimates in last year / total no carriageway sections	RAMM carriageway, traffic_loading, carr_way, traffic_loading_dtl	Grade 1 Grade 2 Grade 3 Grade 4 Grade 5	90% 70% 40% 20%	 90% 70% 40% 20%	Grade 2
Non-Carriageway Asset Inventory							
Structures	No. Pavement Type "Bridge" v No. Bridges > 50m in length in BDS	Total No. Bridge pavement type in RAMM vs Total No. Bridges >50m in length in BDS that carry the State Highway	RAMM carr_way, BDS	Grade 1 Grade 2 Grade 3 Grade 4 Grade 5	90% 70% 40% 20%	 90% 70% 40% 20%	Grade 1
	No. Large Culverts v No. BDS	Total No. Culverts with an area >= 3.4m^2 vs Total No. culverts in BDS	RAMM carr_way, drainage, BDS	Grade 1 Grade 2 Grade 3 Grade 4 Grade 5	90% 70% 40% 20%	 90% 70% 40% 20%	Grade 2
	Retaining Walls	Total No. Retaining Walls	RAMM carr_way, retaining_wall	N/A	N/A	N/A	N/A
	Gantries	Total No. Gantries	RAMM carr_way, minor_structure	N/A	N/A	N/A	N/A
	Barriers in RAMM(m)	Total Length Barriers (excludes SR, HR, OTHER, GREAT)	RAMM carr_way, railings	N/A	N/A	N/A	N/A
Drainage	Culverts per km v Regional Average (Rural)	Total No. of culverts per km Rural (Includes CUL, SDCUL, OFCUL) vs regional average per km	RAMM carr_way, drainage	Grade 1 Grade 2 Grade 3 Grade 4 Grade 5	90% 70% 40% 20%	 90% 70% 40% 20%	Grade 2
	Catchpits per km v Regional Average (Urban)	Total No. of catchpits per kmUrban (includes CP1,CP2,CP3,SUMP,GRID, SP) vs regional average per km	RAMM carr_way, drainage	Grade 1 Grade 2 Grade 3 Grade 4 Grade 5	90% 70% 40% 20%	 90% 70% 40% 20%	Grade 2
	Manholes per km v Regional Average (Urban)	Total No. of manholes per km Urban (includes MHOLE, DCHM) vs regional average per km	RAMM carr_way, drainage	Grade 1 Grade 2 Grade 3 Grade 4 Grade 5	90% 70% 40% 20%	 90% 70% 40% 20%	Grade 2
	Subsoil Drains per km v benchmark Regional Average (Rural)	Length of subsoil drains per km Rural vs regional average per km	RAMM carr_way, drainage	Grade 1 Grade 2 Grade 3 Grade 4 Grade 5	90% 70% 40% 20%	 90% 70% 40% 20%	Grade 2
	% of Drainage (Construction Date in previous 4 – 15 months)	Total No. of drainage structures renewed or replaced in last 4-15 months / total no. of drainage structures	RAMM carr_way, drainage	Grade 1 Grade 2 Grade 3 Grade 4	4% 2% 1%	4% 2% 1%	Grade 2
Surface Water Channels	Surfaced SWC per km v Regional Average (Urban)	Length of surfaced SWC per km Urban vs regional average per km	RAMM carr_way, sw_channel	Grade 1 Grade 2 Grade 3 Grade 4 Grade 5	90% 70% 40% 20%	 90% 70% 40% 20%	Grade 2
	Earth SWC per km v Regional Average (Rural)	Length of Earth SWC per kmRural vs regional average per km	RAMM carr_way, sw_channel	Grade 1 Grade 2 Grade 3 Grade 4 Grade 5	90% 70% 40% 20%	 90% 70% 40% 20%	Grade 2
	Sealed SWC Renewal Activity (Construction Date in previous 4 – 27 months)	Length of surfaced SWC renewed or replaced in last 4-15 months / total length of surfaced SWC	RAMM carr_way, sw_channel	Grade 1 Grade 2 Grade 3 Grade 4	4% 2% 1%	4% 2% 1%	Grade 2

DATABASE HEALTH INDEX - PARAMETERS

	Measures	Description	Data Source	Grading	Greater than	Less than	NZTA Target Grade
Signs	Signs per km v Regional Average	Total No. of signs per km vs regional average per km	RAMM carr_way, signs	Grade 1 Grade 2 Grade 3 Grade 4 Grade 5	90% 70% 40% 20%	 90% 70% 40% 20%	Grade 2
	Large Signs >4.0m^2	Total No. of large signs with a sign face greater than 4.0m^2	RAMM carr_way, signs	N/A	N/A	N/A	N/A
	ITS VMS	Total No. of ITS Assets (3VMS, 3MVMS, 3VMSS) and its_state = "In Service"	RAMM carr_way, ud_its	N/A	N/A	N/A	N/A
	% of Signs with renewal date in previous 4 – 15 months	Total No. of signs renewed or replaced in last 4-15 months / total number of signs	RAMM carr_way, signs	Grade 1 Grade 2 Grade 3 Grade 4	6% 4% 2%	6% 4% 2%	Grade 2
	No. Frangible bases in RAMM	Total No of signs with frangible bases	RAMM carr_way, signs	N/A	N/A	N/A	N/A
Streetlights	Streetlights per km v benchmark	Total No. of street lights per km vs regional average per km	RAMM carr_way, sl_pole	Grade 1 Grade 2 Grade 3 Grade 4 Grade 5	90% 70% 40% 20%	90% 70% 40% 20%	Grade 2
	Frangible Base type no.	Total No. of street lights with frangible bases	RAMM carr_way, sl_pole	N/A	N/A	N/A	N/A
	Shear Base type no.	Total No. of street lights with shear bases	RAMM carr_way, sl_pole	N/A	N/A	N/A	N/A
	% of Street lights with renewal date in previous 4 – 15 months	Total No. of street lights renewed or replaced in last 4-15 months / total number of street lights	RAMM carr_way, sl_pole	Grade 1 Grade 2 Grade 3 Grade 4	6% 4% 2%	6% 4% 2%	Grade 2
	Duplicates or near duplicates plus poles with no light or bracket	Total No. Poles with no brackets attached, total No. brackets with no light attached, total No. poles with duplicate road_id, location, offset_side, offset	RAMM carr_way, sl_pole, sl_bracket, sl_light	Grade 1 Grade 2 Grade 3 Grade 4	5% 15% 40%	5% 15% 40%	Grade 1
Footpath & Cycleways	Total Length of footpath and cycleways (see attached tables for listing)	Total length of footpath and cycleways	RAMM carr_way, features	N/A	N/A	N/A	N/A
Signal Controlled intersections	No. Signal Controlled Intersections (see attached report for loactions)	Number of signal Controlled Intersections (SIGINT)	RAMM carr_way, features	N/A	N/A	N/A	N/A
Rest Areas	Number of rest areas	Total No of rest areas	RAMM carr_way, features	N/A	N/A	N/A	N/A
Weigh Station	No. Weigh stations	Number of weighs Stations (WEIGH)	RAMM carr_way, features	N/A	N/A	N/A	N/A