From: official information
Sent: Thursday, 1 July 2021 17:32
To: [redacted]
Cc: official information
Subject: RESPONSE - LGOIMA 21197 - [redacted] - Crosby Road Safety Improvement Project
Attachments: Appendix 1 - SP_Crosby Rd - 360m - 1 Dec 18 - Class.PDF; Appendix 2 - SP_Crosby Rd - 360m - 1 Dec 18 - Weekly.PDF; Appendix 3 - SP_Crosby Rd - 360m - 1 Dec 18 - Speed.PDF; Appendix 4- Vehicle Classification System.PDF

Kia Ora,

I refer to your **information request below**, Hamilton City Council is able to provide the following response.

Request (1)
We are given speeds and vehicle numbers which all good data but have those speeds actually caused any accidents?

Response (1)
Hamilton City Council is only able to use information available using the Crash Analysis System (CAS) which is managed by the New Zealand Police. Records from CAS identifies a total of three crashes where Police have specifically identified speed as a causative factor. A serious crash in 2012, and a non-injury crash in both 2011 and 2012.

Data relating to causative factors can be subjective to the investigating police officer unless the Serious Crash Unit attend and complete appropriate measurements. Hamilton City Council does not hold information on Police investigations.

Request (1a)
On what part of Crosby Road were the speeds recorded?

Response (1a)
The traffic count tubes were laid between 50 and 54 Crosby Road. The traffic count tubes measure the number of vehicles, classification of vehicle (see Appendix 4) and speed.

Request (2)
At what time of day were:
The maximum speeds recorded?

Response (2)
The maximum speed was recorded was 135km/h at 8pm. Speeds in excess of 100kph were recorded at the following times; 1am, 5am, 10am, 2pm, 4pm, 5pm, 8pm, 9pm and 10pm.

Request (2a)
Is there a record of time of day and volume of vehicles in each hour exceeding 50kph

Response (2a)
Appendix 1 to 3 show results of the traffic count tubes including speed.
The average is greater than 50kph for every hour of the day. Each hour of the monitored day, the 85th percentile (85% of vehicles) speed is in excess of 60kph.

Request (2b)
Is there a pattern to the time of day the speeds went above 50kph; say 10kph blocks

Response (2b)
Excessive speeds are identified over the 24 hours of recorded data. Appendix 1 to 3 show results of the traffic count tubes including speed.

Request (3)
I presume that this "Speed reduction" desire has an underlying purpose of reducing accidents.

What is the accident history on Crosby Road?

3a) Only Motor vehicles involved in and were the cause of the accident
3b) Motor vehicle was the cause of the accident and caused the injury to Cyclist
3c) Cyclist was the cause of the accident and caused the damage to Motor vehicle or injury to Pedestrian
3d) Cyclist was the cause of the accident and caused injury to Pedestrian
3e) Pedestrian's actions the cause of the accident
3f) Accidents caused by & to "Other"; mobility scooter[s], dogs etc

Response (3)
Crash statistics from 2010 to 2021 sourced from CAS show crashes involve vehicles only and do not include pedestrians, cyclist or other. Information available to Hamilton City Council can only identify the outcome of a crash into four categories being Fatal, Serious Crash, Minor Crash, and Non-Injury Crash.
Table 1 below shows all reported crashes from 1 January 2010 to 31 May 2021 for crashes involving vehicles only.

Table 1 – 3a) Crashes including vehicles only for Crosby Road

Crosby Rd Calendar Year	Fatal Crash	Serious Crash	Minor Crash	Non-Injury Crash	Grand Total
2010					0
2011				2	2
2012		1		1	2
2013				2	2
2014				1	1
2015					0
2016			1	1	2
2017			1	2	3
2018			1	1	2
2019				2	2
2020				2	2
2021 (to May)					0
Grand Total	**0**	**1**	**3**	**14**	**18**

Request (4)
Give us the total number, the ten highest and ten lowest, of accidents on an individual named Hamilton Road, Street, Avenue & Lane, by year, for the last five years so we can compare to Crosby Road data.

Response (4)
The roads with the greatest number of crashes is shown in Table 2 below.

369 roads each recorded only 1 crash for a 5 year, 5 month period from 1 January 2016 to 31 May 2021. 154 streets have had a total of two crashes and 66 streets had a total of three crashes.

Table 2 Highest ranked roads for crashes over the past 5 years

Street	Total number of reported crashes 1 Jan 2016 to 31 May 2021	Ranked
Wairere Drive	653	1
Te Rapa Road	538	2
Victoria Street	398	3
Grey Street	284	4
Peachgrove Road	284	5
Hukanui Road	265	6
Tristram Street	235	7
Anglesea Street	220	8
Boundary Road	205	9
Bridge Street	205	10

If you have any concerns with the decision referred to in this response, you have the right to request an investigation and review by the Ombudsman under section 27(3) of the Local Government Official Information and Meetings Act 1987.

For your information, the Ombudsman's contact details are:

Email: info@ombudsman.parliament.nz
Post: PO Box 10152, Wellington 6143
Telephone: 0800 802 602

Appendix 1 – Sp Crosby Road – Class
Appendix 2 – Sp Crosby Road – Weekly
Appendix 3 – Sp Crosby Road – Speed
Appendix 4 – Vehicle Classification System

Kind Regards,

Tatiyana | Official Information & Legal Support Advisor
Legal Services & Risk | People and Organisational Performance
Email: officialinformation@hcc.govt.nz

Hamilton City Council
Te kaunihera o Kirikiriroa

Hamilton City Council | **Private Bag 3010** | **Hamilton 3240** | **www.hamilton.govt.nz**
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From: official information <officialinformation@hcc.govt.nz>
Sent: Monday, 14 June 2021 9:57 pm
To: [redacted]
Cc: official information <officialinformation@hcc.govt.nz>
Subject: LGOIMA 21197 - [redacted] - Crosby Road Safety Improvement Project

Kia Ora,

I write to acknowledge your information request of Saturday 12 June 2021 as below.

Please be advised that your request has been passed on to the relevant team within Council and you will be informed of the outcome.

The Local Government Official Information and Meetings Act 1987 requires that we advise you of our decision on whether the Council will provide the requested information as soon as reasonably practicable, and no later than 20 working days after the day we received your request. We will respond to you no later than Friday 9 July 2021.

Kind Regards,

Tatiyana | Official Information & Legal Support Advisor
Legal Services & Risk | People and Organisational Performance
Email: officialinformation@hcc.govt.nz

Hamilton City Council
Te kaunihera o Kirikiriroa

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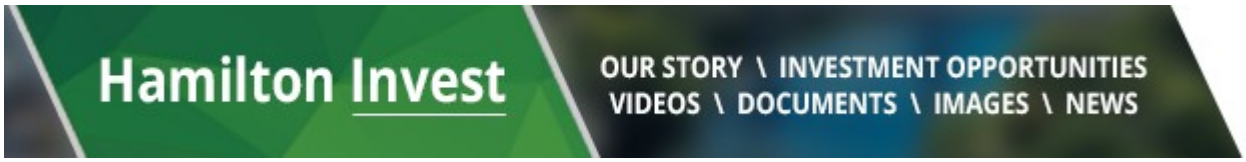


-----Original Message-----
From: [redacted]
Sent: Saturday, 12 June 2021 10:23 PM
To: "info@hcc.govt.nz" <info@hcc.govt.nz>
Subject: Crosby Road alterations

See attached letter

WSP Opus Traffic Surveys & Analysis
Class Speed Matrix

Datasets:

Site: **[HCC-P-0226-360] Crosby Rd (Btn Winstone & Sussex) <50kph> 360m**
Direction: 8 - East bound A>B, West bound B>A. **Lane:** 0
Survey Duration: 14:29 Friday, 23 November 2018 => 9:54 Monday, 3 December 2018
File: HCC-P-0226-36003Dec2018.EC0 (Plus)
Identifier: T8011VGK MC56-L5 [MC55] (c)Microcom 19Oct04
Algorithm: Factory default (v3.21 - 15322)
Data type: Axle sensors - Paired (Class/Speed/Count)
Filter time: **0:00 Saturday, 24 November 2018 => 0:00 Saturday, 1 December 2018**
Direction: East, West (bound)

Speed (km/h)	Class 1	2	3	4	5	6	7	8	9	10	11	12	13	Speed Totals	
10 - 20	27	.	8	.	.	.	1	.	.	.	.	.	.	36	0.1%
20 - 30	149	2	5	.	.	1	2	.	.	.	.	1	.	160	0.6%
30 - 40	361	7	25	.	1	1	2	1	.	.	.	.	.	398	1.5%
40 - 50	3726	45	138	10	1	1	12	.	.	.	.	3	1	3937	15.1%
50 - 60	14334	118	343	16	7	4	4	.	.	.	.	6	.	14832	57.0%
60 - 70	5670	34	164	2	4	1	1	.	.	.	.	.	.	5876	22.6%
70 - 80	657	2	29	.	1	.	.	.	.	.	.	.	.	689	2.6%
80 - 90	83	.	2	.	.	.	.	.	.	.	.	.	.	85	0.3%
90 - 100	13	.	.	.	.	.	.	.	.	.	.	.	.	13	0.0%
100 - 110	7	.	.	.	.	.	.	.	.	.	.	.	.	7	0.0%
110 - 120	2	.	.	.	.	.	.	.	.	.	.	.	.	2	0.0%
120 - 130	2	.	.	.	.	.	.	.	.	.	.	.	.	2	0.0%
130 - 140	.	.	1	.	.	.	.	.	.	.	.	.	.	1	0.0%
140 - 150	.	.	.	.	.	.	.	.	.	.	.	.	.	0	0.0%
150 - 160	.	.	.	.	.	.	.	.	.	.	.	.	.	0	0.0%
Class Totals	25031	208	715	28	14	8	22	1	0	0	0	10	1	26038	
	96.1%	0.8%	2.7%	0.1%	0.1%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		

WSP Opus Traffic Surveys & Analysis
Weekly Vehicle Counts (Virtual Week)

Datasets:

Site: **[HCC-P-0226-360] Crosby Rd (Btn Winstone & Sussex) <50kph> 360m**
Direction: 8 - East bound A>B, West bound B>A. **Lane:** 0
Survey Duration: 14:29 Friday, 23 November 2018 => 9:54 Monday, 3 December 2018
File: HCC-P-0226-36003Dec2018.EC0 (Plus)
Identifier: T8011VGK MC56-L5 [MC55] (c)Microcom 19Oct04
Algorithm: Factory default (v3.21 - 15322)
Data type: Axle sensors - Paired (Class/Speed/Count)
Filter time: **0:00 Saturday, 24 November 2018 => 0:00 Saturday, 1 December 2018**
Direction: East, West (bound)

	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Averages 1 - 5	Averages 1 - 7
Hour									
0000-0100	3.0	14.0	17.0	18.0	11.0	25.0	31.0	12.6	17.0
0100-0200	12.0	9.0	19.0	4.0	10.0	17.0	24.0	10.8	13.6
0200-0300	3.0	4.0	7.0	6.0	9.0	11.0	22.0	5.8	8.9
0300-0400	12.0	18.0	16.0	9.0	15.0	11.0	11.0	14.0	13.1
0400-0500	13.0	17.0	30.0	15.0	15.0	15.0	8.0	18.0	16.1
0500-0600	36.0	31.0	36.0	32.0	38.0	10.0	20.0	34.6	29.0
0600-0700	87.0	79.0	70.0	87.0	76.0	22.0	27.0	79.8	64.0
0700-0800	256.0	246.0	270.0	232.0	229.0	69.0	28.0	246.6	190.0
0800-0900	**353.0<**	**373.0<**	**392.0<**	**374.0<**	**342.0<**	106.0	72.0	**366.8<**	**287.4<**
0900-1000	183.0	270.0	275.0	202.0	216.0	210.0	184.0	229.2	220.0
1000-1100	156.0	212.0	240.0	203.0	188.0	**222.0<**	194.0	199.8	202.1
1100-1200	192.0	209.0	234.0	197.0	197.0	194.0	**221.0<**	205.8	206.3
1200-1300	214.0	241.0	273.0	197.0	219.0	**240.0<**	227.0	228.8	230.1
1300-1400	203.0	253.0	279.0	236.0	244.0	197.0	229.0	243.0	234.4
1400-1500	222.0	248.0	338.0	237.0	262.0	229.0	232.0	261.4	252.6
1500-1600	352.0	353.0	348.0	334.0	360.0	207.0	232.0	349.4	312.3
1600-1700	331.0	325.0	355.0	342.0	316.0	220.0	**235.0<**	333.8	303.4
1700-1800	**427.0<**	**416.0<**	**428.0<**	**420.0<**	**384.0<**	215.0	230.0	**415.0<**	**360.0<**
1800-1900	234.0	213.0	266.0	324.0	311.0	148.0	166.0	269.6	237.4
1900-2000	208.0	197.0	201.0	208.0	254.0	163.0	119.0	213.6	192.9
2000-2100	109.0	136.0	162.0	257.0	110.0	123.0	107.0	154.8	143.4
2100-2200	73.0	87.0	94.0	120.0	111.0	85.0	69.0	97.0	91.3
2200-2300	38.0	54.0	56.0	58.0	110.0	59.0	42.0	63.2	59.6
2300-2400	25.0	29.0	38.0	26.0	36.0	61.0	28.0	30.8	34.7
Totals									
0700-1900	3123.0	3359.0	3698.0	3298.0	3268.0	2257.0	2250.0	3349.2	3036.1
0600-2200	3600.0	3858.0	4225.0	3970.0	3819.0	2650.0	2572.0	3894.4	3527.7
0600-0000	3663.0	3941.0	4319.0	4054.0	3965.0	2770.0	2642.0	3988.4	3622.0
0000-0000	3742.0	4034.0	4444.0	4138.0	4063.0	2859.0	2758.0	4084.2	3719.7
AM Peak	0800	0800	0800	0800	0800	1000	1100		
	353.0	373.0	392.0	374.0	342.0	222.0	221.0		
PM Peak	1700	1700	1700	1700	1700	1200	1600		
	427.0	416.0	428.0	420.0	384.0	240.0	235.0		

*** - No data.**

WSP Opus Traffic Surveys & Analysis
Speed Statistics by Hour

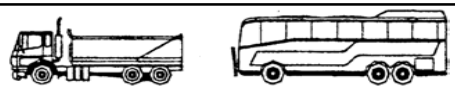
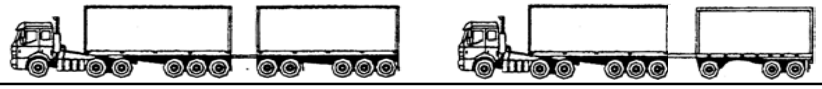
Datasets:

Site: **[HCC-P-0226-360] Crosby Rd (Btn Winstone & Sussex) <50kph> 360m**
Direction: 8 - East bound A>B, West bound B>A. **Lane:** 0
Survey Duration: 14:29 Friday, 23 November 2018 => 9:54 Monday, 3 December 2018
File: HCC-P-0226-36003Dec2018.EC0 (Plus)
Identifier: T8011VGK MC56-L5 [MC55] (c)Microcom 19Oct04
Algorithm: Factory default (v3.21 - 15322)
Data type: Axle sensors - Paired (Class/Speed/Count)
Filter time: **0:00 Saturday, 24 November 2018 => 0:00 Saturday, 1 December 2018**
Direction: East, West (bound)
Separation: All - (Headway)
Vehicles = 26038
Posted speed limit = 60 km/h, Exceeding = 6675 (25.64%), Mean Exceeding = 64.84 km/h
Maximum = 135.8 km/h, **Minimum** = 10.2 km/h, **Mean** = 55.8 km/h
85% Speed = 62.3 km/h, **95% Speed** = 67.7 km/h, **Median** = 55.4 km/h
20 km/h Pace = 46 - 66, **Number in Pace** = 22493 (86.39%)
Variance = 58.51, **Standard Deviation** = 7.65 km/h

Hour Bins

Time	Bin		Min	Max	Mean	Median	85%	95%	>PSL 60 km/h	
0000	119	0.5%	10.4	79.3	53.7	53.3	62.6	70.2	32	26.9%
0100	95	0.4%	10.3	121.8	52.2	52.2	63.7	73.1	24	25.3%
0200	62	0.2%	41.9	80.1	59.6	57.2	69.8	73.4	28	45.2%
0300	92	0.4%	28.9	89.1	57.9	58.0	64.8	72.4	37	40.2%
0400	113	0.4%	32.4	86.8	58.6	57.6	67.3	77.8	50	44.2%
0500	203	0.8%	26.7	114.9	57.8	57.2	66.2	76.3	66	32.5%
0600	448	1.7%	17.0	88.4	58.7	58.0	67.3	72.7	183	40.8%
0700	1330	5.1%	20.6	83.3	56.8	56.5	63.4	67.7	424	31.9%
0800	2012	7.7%	18.8	86.0	55.5	55.4	61.6	65.9	461	22.9%
0900	1540	5.9%	19.6	86.6	55.4	55.1	61.9	67.0	352	22.9%
1000	1415	5.4%	18.8	107.8	55.8	55.4	63.0	67.7	378	26.7%
1100	1444	5.5%	10.2	92.5	55.1	55.1	62.3	67.0	349	24.2%
1200	1611	6.2%	17.3	93.2	55.3	55.8	62.3	67.7	429	26.6%
1300	1641	6.3%	17.9	96.7	56.1	55.4	62.6	67.3	448	27.3%
1400	1768	6.8%	17.6	114.2	55.9	55.4	62.6	67.3	461	26.1%
1500	2186	8.4%	18.5	97.5	55.8	55.4	62.3	67.0	512	23.4%
1600	2124	8.2%	20.7	103.9	56.3	55.8	62.6	68.4	572	26.9%
1700	2520	9.7%	12.9	120.4	56.2	55.8	62.3	66.6	664	26.3%
1800	1662	6.4%	17.6	87.8	56.2	55.8	62.3	67.3	432	26.0%
1900	1350	5.2%	12.7	98.2	55.5	55.1	61.9	68.0	323	23.9%
2000	1004	3.9%	11.3	135.8	54.6	53.6	60.8	65.9	192	19.1%
2100	639	2.5%	25.4	107.6	54.4	53.6	61.2	66.2	121	18.9%
2200	417	1.6%	28.0	105.2	54.6	53.6	61.2	67.3	81	19.4%
2300	243	0.9%	21.9	85.3	54.5	53.3	62.6	70.9	56	23.0%
----	**26038**	**100.0%**	**10.2**	**135.8**	**55.8**	**55.4**	**62.3**	**67.7**	**6675**	**25.6%**

AUSTROADS Vehicle Classification System

Level 1	Level 2		Level 3	AUSTROADS Classification		
Length (indicative)	**Axles and Axle Groups**		**Vehicle Type**			
Type	**Axles**	**Groups**	**Typical Description**	**Class**	**Parameters**	**Typical Configuration**
	LIGHT VEHICLES					
Short up to 5.5m		1 or 2	**Short** Sedan, Wagon, 4WD, Utility, Light Van, Bicycle, Motorcycle, etc	**1**	d(1) ≤ 3.2m and axles = 2	
Medium 5.5m to 14.5m	3, 4 or 5	3	**Short - Towing** Trailer, Caravan, Boat, etc	**2**	groups = 3 d(1) ≥ 2.1m, d(1) ≤ 3.2m, d(2) ≥ 2.1m and axles = 3, 4 or 5	
	HEAVY VEHICLES					
	2	2	**Two Axle Truck or Bus**	**3**	d(1) > 3.2m and axles = 2	
	3	2	**Three Axle Truck or Bus**	**4**	axles = 3 and groups = 2	
	> 3	2	**Four Axle Truck**	**5**	axles > 3 and groups = 2	
Long 11.5m to 19.0m	3	3	**Three Axle Articulated** Three axle articulated vehicle, or Rigid vehicle and trailer	**6**	d(1) > 3.2m, axles = 3 and groups = 3	
	4	> 2	**Four Axle Articulated** Four axle articulated vehicle, or Rigid vehicle and trailer	**7**	d(2) < 2.1m or d(1) < 2.1m or d(1) > 3.2m axles = 4 and groups > 2	
	5	> 2	**Five Axle Articulated** Five axle articulated vehicle, or Rigid vehicle and trailer	**8**	d(2) < 2.1m or d(1) < 2.1m or d(1) > 3.2m axles = 5 and groups > 2	
	≥ 6	> 2	**Six Axle Articulated** Six axle articulated vehicle, or Rigid vehicle and trailer	**9**	axles = 6 and groups > 2 or axles > 6 and groups = 3	
Medium Combination 17.5m to 36.5m	> 6	4	**B Double** B Double, or Heavy truck and trailer	**10**	groups = 4 and axles > 6	
	> 6	5 or 6	**Double Road Train** Double road train, or Medium articulated vehicle and one dog trailer (M.A.D.)	**11**	groups = 5 or 6 and axles > 6	
Large Combination Over 33.0m	> 6	> 6	**Triple Road Train** Triple road train, or Heavy truck and three trailers	**12**	groups > 6 and axles > 6	

Definitions:

Group: Axle group, where adjacent axles are less than 2.1m apart

Groups: Number of axle groups

Axles: Number of axles (maximum axle spacing of 10.0m)

d(1): Distance between first and second axle

d(2): Distance between second and third axle