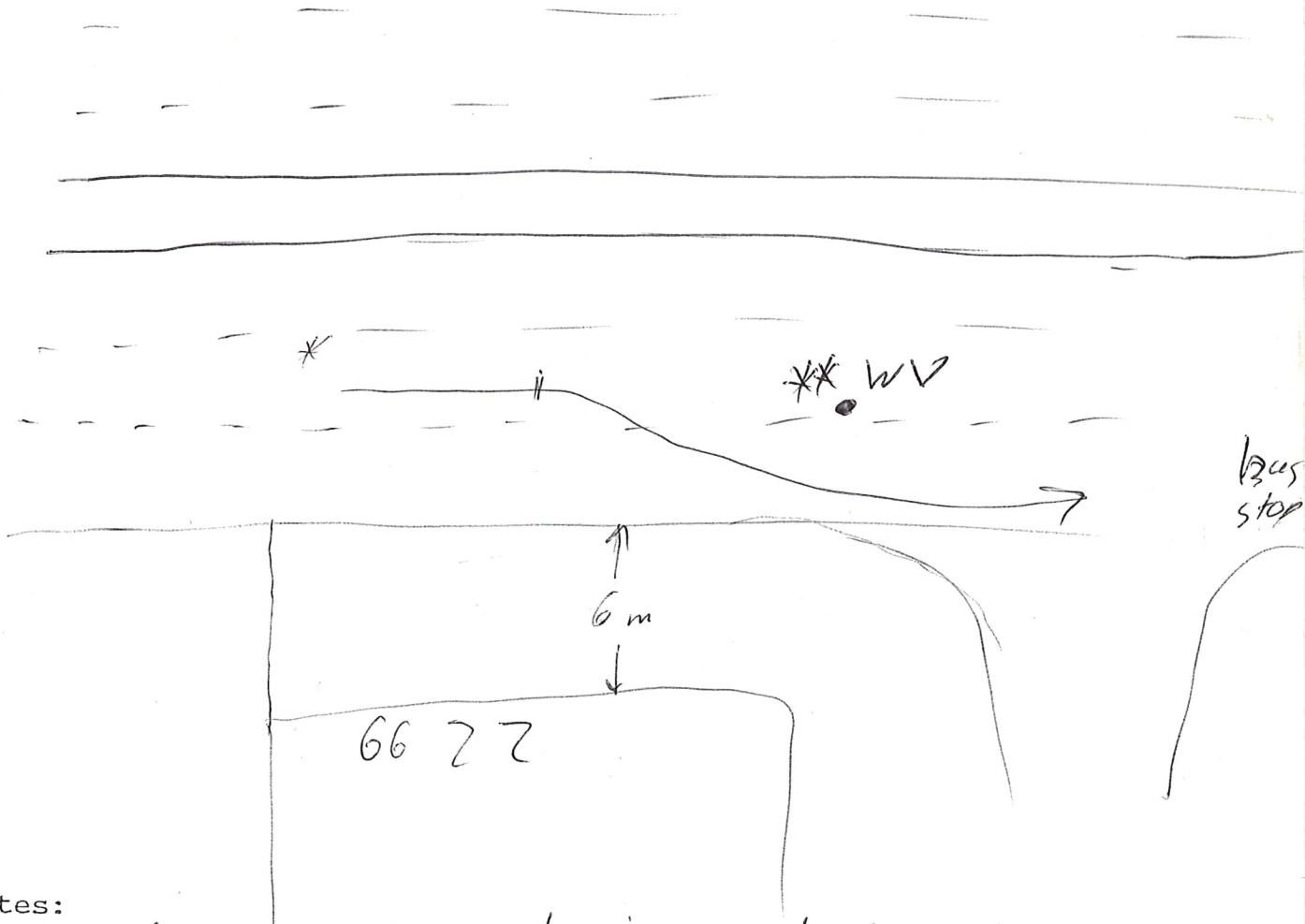


# Vibration Test

Date: Aug 29/07

Location: 6622 Dewdney Ave					
#	Direction	Speed	Temp	Meter Resting	Meter Reading
1.	* W (switch)	50	21°C	718 Y	988 Y
2.	W	<del>50</del> 30		652 Y	944 Y
3.	W	40		692 Y	708 Y
4.	W	50		652 Y	952 Y
5.	** E W	<del>50</del> N		682 Y	1.00m
6.	E	40			
7.	E	50			
8.					
9.					
10.					

Drawing:



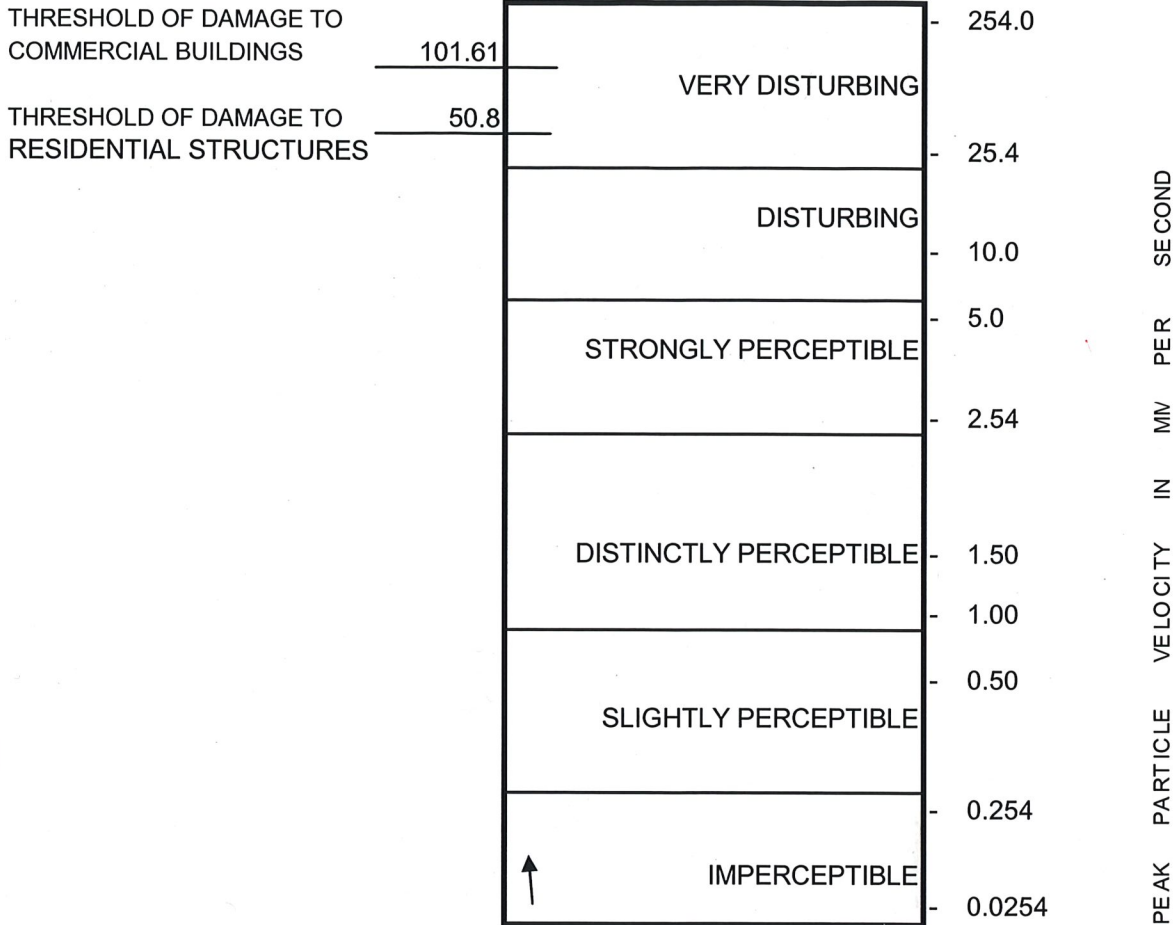
Notes:

\* refers to bus stopping at bus stop just past Southam St  
 \*\* hit water valve

7200 DEWDNEY

Sept. 20/11

RANGE OF VIBRATION INTENSITIES



SITE A  
mm/sec\*

\*Total Vibration equals the square root of the sum of vertical measurement (z)<sup>2</sup> + horizontal direction (x)<sup>2</sup> + horizontal direction (y)<sup>2</sup>

Test	Coordinate	Reading	Location	(Reading) <sup>2</sup>	Sq Root of Total
1	x	1.49	7200 DEWDNEY	2.22	1.79
	y	0.964		0.929	
	z	0.250		0.062	
	total				
2	x	<del>0.272</del> 0.868		0.753	1.53
	y	0.912		0.832	
	z	0.272		0.753	
	total			2.339	
3	x				
	y				
	z				
	total				

W.B.

E.B.

## Darlene Loucks

---

**From:** Desirae Bernreuther  
**Sent:** Wednesday, February 21, 2018 2:32 PM  
**To:** Katelyn Wilson  
**Subject:** RE: Vibration Analysis

Hi Katelyn,

The City of Regina does vibration monitoring on a request only basis to determine if vibrations from traffic are affecting a particular structure (residential or commercial). Along Dewdney since 2011 we have received 2 requests for locations from residents.

The results from these tests indicate that the vibrations would not be strong enough to impact the building structures. The worksheets contain information related to specific properties, so the City will not be providing the tests.

**Desirae Bernreuther**  
Media Relations Consultant  
Communications & Customer Experience  
P: 306.777.7486  
C: 306.530.0970  
E: dbernreu@regina.ca  
Regina.ca



---

**From:** Katelyn Wilson [mailto:katelyn.wilson@globalnews.ca]  
**Sent:** Tuesday, February 20, 2018 4:36 PM  
**To:** Desirae Bernreuther <DBERNREU@regina.ca>  
**Subject:** RE: Vibration Analysis

Ok sounds good.

---

**From:** Desirae Bernreuther [mailto:DBERNREU@regina.ca]  
**Sent:** Tuesday, February 20, 2018 4:27 PM  
**To:** Katelyn Wilson <katelyn.wilson@globalnews.ca>  
**Subject:** RE: Vibration Analysis

Hi Katelyn,  
I am still working on this, I will get back to you tomorrow.  
D

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**From:** Katelyn Wilson [mailto:katelyn.wilson@globalnews.ca]  
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**Subject:** Vibration Analysis

Hi Desirae,

Just checking in to see if there's anything I need to do to access the 2014 vibration analysis.

Thank you,

Katelyn

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## Darlene Loucks

---

**From:** Desirae Bernreuther  
**Sent:** Friday, February 23, 2018 11:09 AM  
**To:** Katelyn Wilson  
**Subject:** RE: Vibration Analysis

Hi Katelyn,  
I checked into your question, we do not provide reports completed for private residences.  
D

---

**From:** Katelyn Wilson [mailto:katelyn.wilson@globalnews.ca]  
**Sent:** Thursday, February 22, 2018 5:21 PM  
**To:** Desirae Bernreuther <DBERNREU@regina.ca>  
**Subject:** RE: Vibration Analysis

Hi Desirae,

Sorry for the late reply, I was off yesterday. Are you able to black out the addresses and send it that way?

Thank you,  
Katelyn

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## Darlene Loucks

---

**From:** Desirae Bernreuther  
**Sent:** Friday, February 23, 2018 10:12 AM  
**To:** Katelyn Wilson  
**Subject:** RE: Vibration Analysis

Hi Katelyn,  
I will check and get back to you.  
D

---

**From:** Katelyn Wilson [mailto:katelyn.wilson@globalnews.ca]  
**Sent:** Thursday, February 22, 2018 5:21 PM  
**To:** Desirae Bernreuther <DBERNREU@regina.ca>  
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## Darlene Loucks

---

**From:** Desirae Bernreuther  
**Sent:** Tuesday, February 27, 2018 2:02 PM  
**To:** Katelyn Wilson  
**Subject:** RE: Vibration Analysis - information you requested  
**Attachments:** R-Vibration Intensities.pdf

Hi Katelyn,

The City may conduct vibration testing when requested. Two such test were completed at two separate properties on Dewdney Avenue - one in 2011 and the other in 2012. Both test results indicated that although someone may feel vibrations, they weren't high enough to cause any structural damage to the residential properties. Measurements ranged between 1.79 mm/sec and 6.14 mm/sec, well below the level of 50.8 mm/second that could be a concern for residential structures and 101.61 mm/sec for commercial structures.

To maintain traffic and pedestrian safety, as well as infrastructure, the Traffic Bylaw was updated in 2015 to restrict heavy long combination trucks from using Dewdney Avenue as a main thoroughfare. We are aware that trucks still use this route for in-city pickups and deliveries. Traffic counts undertaken in 2016 after the Bylaw changes have indicated a reduction of semi and heavy long combination trucks of 90% since the changes to the Traffic Bylaw 9900.

Regina Police Services is aware of resident concerns on Dewdney Avenue and they do enforce the Traffic Bylaw.

---

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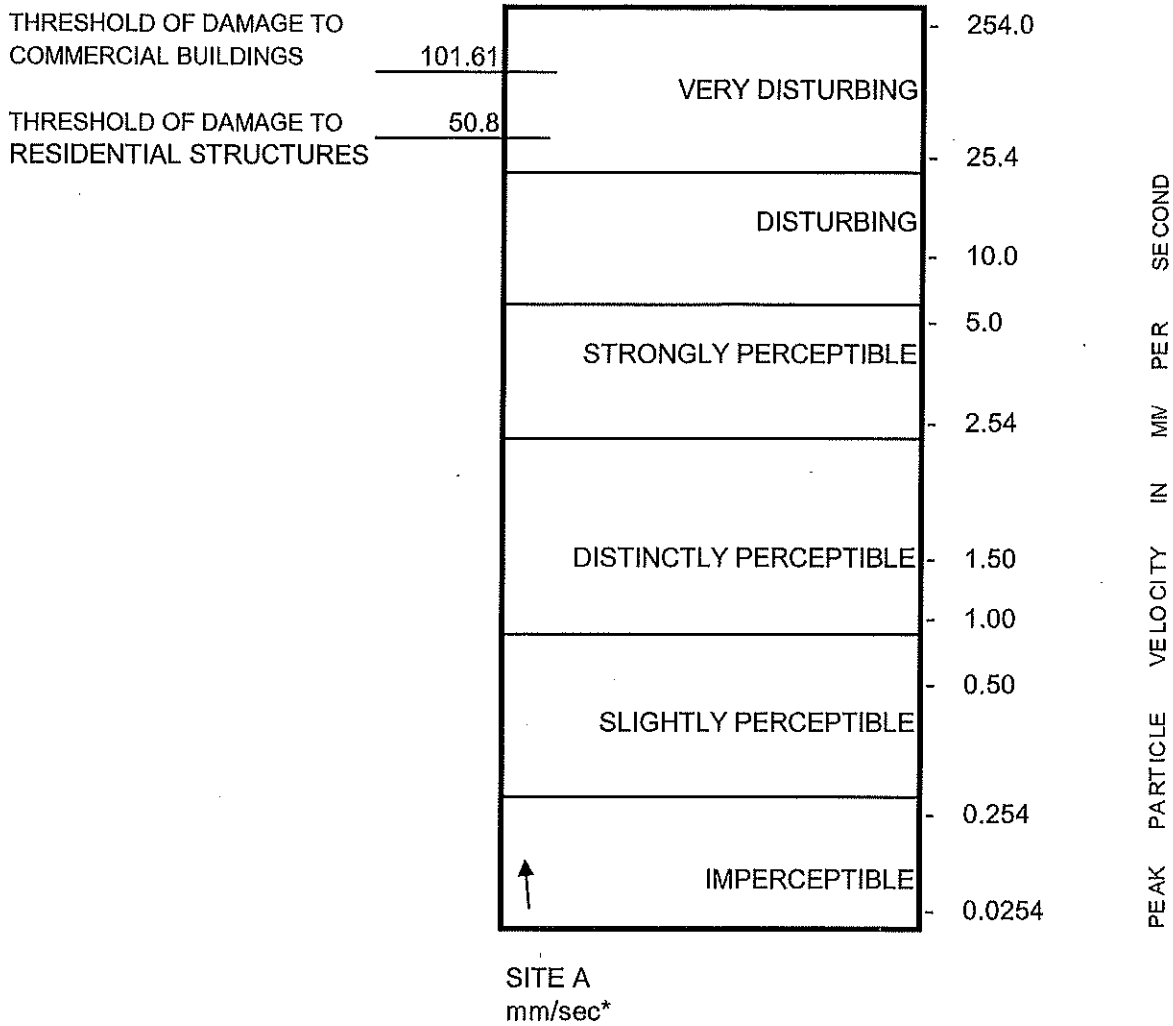
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7200 DEWDNEY

Sept. 20/11

RANGE OF VIBRATION INTENSITIES



\*Total Vibration equals the square root of the sum of vertical measurement (z)<sup>2</sup> + horizontal direction (x)<sup>2</sup> + horizontal direction (y)<sup>2</sup>

Test	Coordinate	Reading	Location	(Reading) <sup>2</sup>	Sq Root of Total
1	x	1.49	7200 DEWDNEY	2.22	1.79
	y	0.964		0.929	
	z	0.250		0.062	
	total				
2	x	<del>0.868</del> 0.868		0.753	1.53
	y	0.912		0.832	
	z	0.272		0.753	
	total			2.339	
3	x				
	y				
	z				
	total				

W.B.

E.B.

Sept. 20/12

6704 Dawdney

8:00 am

15° 28(1)

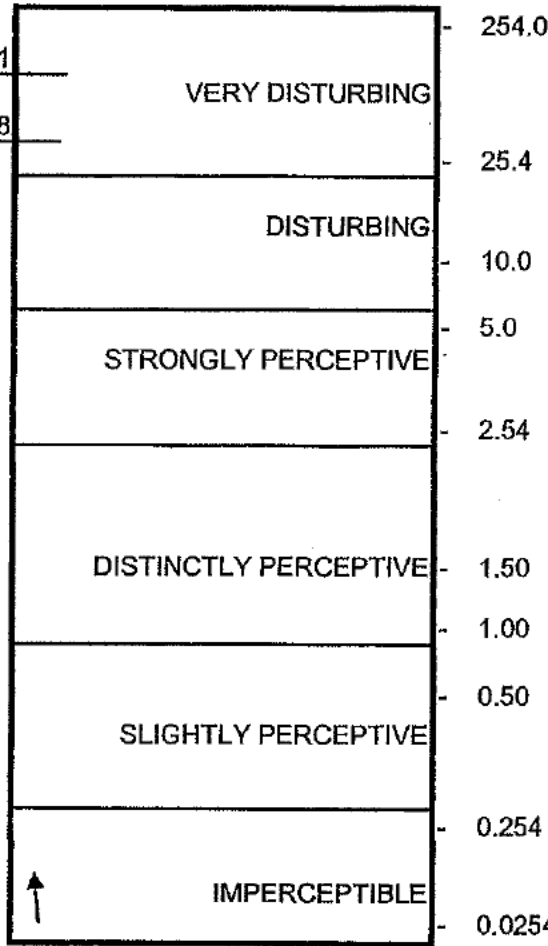
RANGE OF VIBRATION INTENSITIES

THRESHOLD OF DAMAGE TO  
COMMERCIAL BUILDINGS

101.61

THRESHOLD OF DAMAGE TO  
RESIDENTIAL STRUCTURES

50.8



PEAK PARTICLE VELOCITY IN MM PER SECOND

SITE A  
mm/sec\*

\*Total Vibration equals the square root of the sum of vertical measurement (z)<sup>2</sup> + horizontal direction (x)<sup>2</sup> + horizontal direction (y)<sup>2</sup>

Test	Coordinate	Reading	Location	(Reading) <sup>2</sup>	Sq Root of Total
1	x	3.5	Semi - test	12.25	4.45
	y	2.68		7.18	
	z	644		415	
	total			19.845	
2	x	4.40	Cath lane	19.36	6.14
	y	4.20		17.64	
	z	868		753	
	total			37.753	
3	x	2.98	driving lane	8.88	3.909
	y	2.52		10.35	
	z	230		53	
	total				

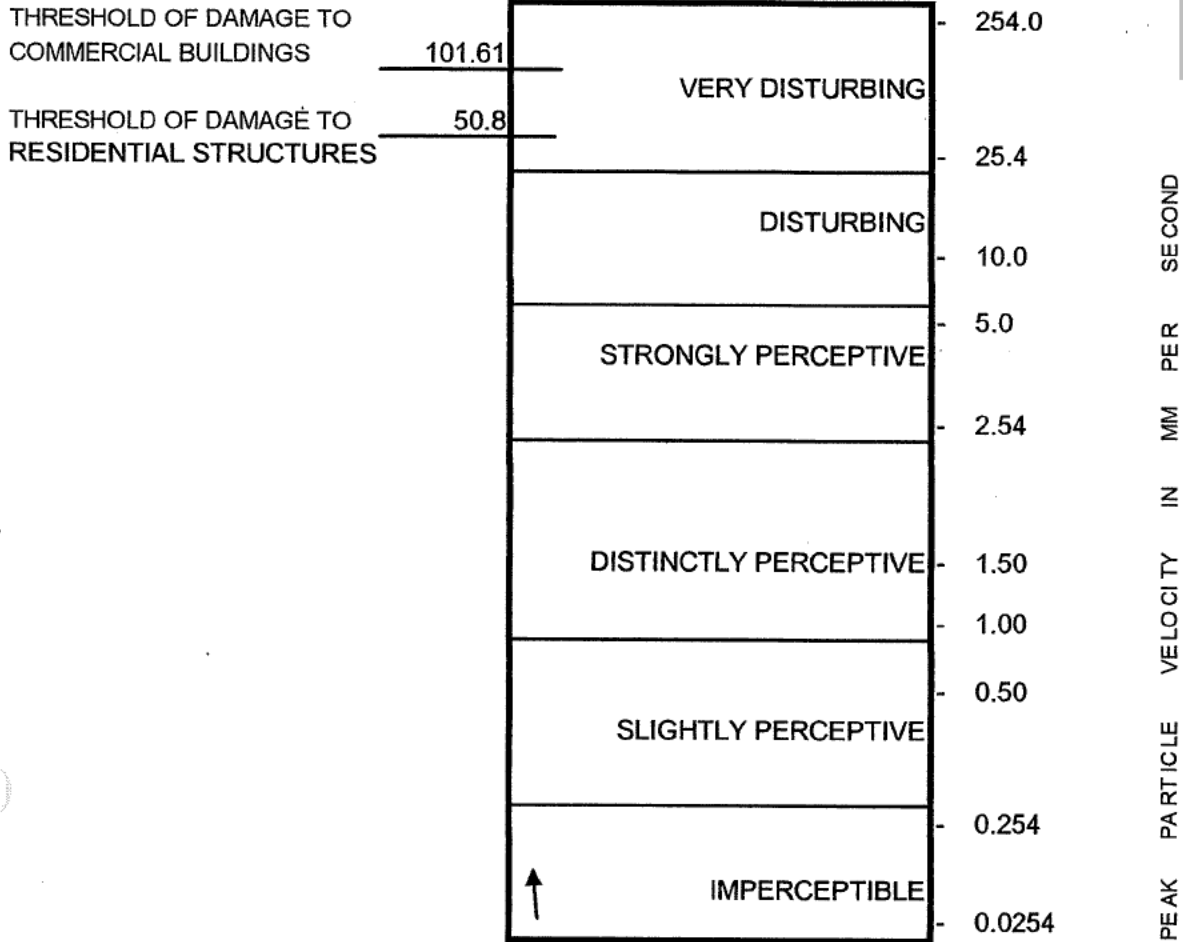
Sept. 20/12

6704 Dawdney

9:00 am

15° 28(1)

RANGE OF VIBRATION INTENSITIES



SITE A  
mm/sec\*

\*Total Vibration equals the square root of the sum of vertical measurement (z)<sup>2</sup> + horizontal direction (x)<sup>2</sup> + horizontal direction (y)<sup>2</sup>

Test	Coordinate	Reading	Location	(Reading) <sup>2</sup>	Sq Root of Total
1	x	3.5		12.25	4.45
	y	2.68		7.18	
	z	644	Semi - test	.415	
	total			19.845	
2	x	4.40		19.36	6.14
	y	4.20		17.64	
	z	868	Carb lane	.753	
	total			37.753	
3	x	2.98		8.88	3.909
	y	2.52		10.35	
	z	.230		.053	
	total		driving lane		

**From:** Mike O'Donnell  
**To:** Gerry Dizy, Faisal Kalim  
**CC:** Nigora Yulyakshieva  
**Date:** 17/Sep/2012 2:31 pm  
**Subject:** Re: 6704 Dewdney Avenue - SR#1401405

Yes - please test. Will that be done this week?

-----  
Message sent from Blackberry handheld

-----Original Message-----

**From:** Gerry Dizy  
**To:** Faisal Kalim <FKALIM@regina.ca>  
**To:** Mike O'Donnell <MODONNEL@regina.ca>  
**Cc:** Nigora Yulyakshieva <NYULYAKS@regina.ca>

**Sent:** 9/17/2012 10:43:42 AM  
**Subject:** Re: 6704 Dewdney Avenue - SR#1401405

Hello Mike O'Donnell,

The volume of service requests for vibration issues, seems to indicate that the additional commercial traffic associated with the GTH has been problematic to the residents located on Dewdney Avenue West. Since 2010 we have received at least 15 complaints from residents on Dewdney Avenue, in the Courtney St. - Elphinstone St. range. In 2011, we conducted a vibration test at 7200 Dewdney Ave. and determined the level of vibration to be 1.78 mm/sec<sup>2</sup> or "distinctly perceptible" range, consistent with many locations where heavy vehicular traffic is present. To place this in context, a vibration level of 50.8 mm/sec<sup>2</sup> is required to cause structural damage to a residential dwelling. As such, the vibrations that are being experienced in these cases are likely more of an annoyance to the resident. That said, it is possible for continuous low level vibrations to aggravate an existing defective condition, such as a cracked foundation. Vibration testing has been scheduled for the week of Sept.17, 2012 and the 5320 Dewdney Ave. location was slated to be tested as per your request from May 17, 2012. With regard to this new service request for 6704 Dewdney Ave., did you want it tested for vibration as well?

Gerry Dizy  
Project Coordinator

City Operations  
City of Regina  
phone (306) 777-6770  
cell (306) 536-3012  
e-mail [gdizy@regina.ca](mailto:gdizy@regina.ca)

**INFOR HANSEN 8**

04/10/2012 11:24

Service Request # 1401405  
 Request Type WTMPR  
 Roadways Preservation  
 Request Date 12/09/2012 16:22  
 Sub Request Type SV  
 Street Vibrations  
 Call Date 12/09/2012 16:22  
 Taken By EWALSH  
 EVELYN WALSH

**Information**

**Information**

Area FS11  
 SECTOR 11  
 Sub-area W08  
 WARD 8  
 District NW  
 NORTHWEST  
 Map #  
 Priority  
 Responsibility TMRP  
 Trans & Mat Svcs - Rdwys Prsv  
 Project  
 Reference #  
 Source WARD08  
 # of Calls 1

**Request Location**

Parcel ID  
 GPS Y 0.0000  
 GPS X 0.0000  
 Property ID

**Location**

Street # 6704  
 Pre Dir  
 Street Name DEWDNEY  
 Suffix AVE  
 Post Dir  
 Subdesignation  
 Address  
 Cross Street  
 Cross Street  
 City, Province, REGINA  
 Postal Code SK  
 S4T-6T1  
 Location

**Additional Information**

undefined

**Call Details**

Call Duration 00:00:31  
 # of Calls 1  
 Taken By EWALSH  
 EVELYN WALSH  
 Customer Contact  
 Requested yes  
 Notify Customer  
 Regarding Service no  
 Request Progress 1



1

**Other Calls**

(no data)

**All Caller Comments**

Taken By	First Name	Last Name	Call Date	Comments
EWALSH	MICHAEL	O'DONNELL	12/09/2012 16:22	<p>Earlier this year I received a response that vibration testing would be done along Dewdney. One address I requested was 6704 Dewdney.</p> <p>Can I receive a response as if or when that testing will be done.</p> <p>Thank you.</p> <p>Mike O'Donnell</p>

**Contact**

*Name* O'DONNELL  
*First, MI* MICHAEL  
*Title*  
*Foreign* no  
*Address* COUNCILLOR - WARD 8  
*City*  
*State/Province*  
*ZIP/PC*  
*Country*  
*Day Phone* (000)000-0000  
*Evening Phone*  
*Fax*  
*Mobile*  
*E-mail*  
*Contact Type* C

**Customer Comments**

Earlier this year I received a response that vibration testing would be done along Dewdney. One address I requested was 6704 Dewdney.

Can I receive a response as if or when that testing will be done.

Thank you.

Mike O'Donnell

**Inspection**

undefined

**Log**

undefined

**Attachments**

undefined

**Details**

undefined

Dear 28(1)

This letter is to acknowledge and respond to your concern with the vibrations to your home as a result of heavy vehicle traffic near your address on Dewdney Avenue.

In general, about 80% of vehicle traffic is carried on 20% of the roads. This 20% consists of higher traffic routes and bus routes and these roads are classified as arterials and collectors. Other roads with low traffic volume are classified as local roads, and make up the remaining 80% of the road network. The section of Dewdney Avenue where you reside is an arterial roadway.

The conditions that you described are not uncommon in Regina and can also occur with homes that are not on transit or truck routes. Due to soil and climate conditions that exist in Regina, problems do develop as a result of the contraction and expansion of the soil in relation to its moisture content. Heavy traffic can further exacerbate this situation.

The City has conducted vibration testing on Dewdney Avenue West and has determined that vibration readings are consistent with other locations of similar traffic type and volume. Further, Dewdney Avenue is scheduled for future rehabilitation upon completion of the heavy truck route which will divert traffic from the Global Transportation Hub to 9<sup>th</sup> Avenue North. In the interim, we will continue to monitor the situation as part of our Condition Inspection program and the site will be listed for appropriate treatments according to the management strategy for roadways infrastructure.

While we are sympathetic to your circumstances, we cannot accept responsibility for the problems. Entirely without Prejudice we would advise that Transit and Truck Routes may only be changed by an order of City Council.

If you have any questions or concerns about the above mentioned programs, please contact me at 777-6770.

## Darlene Loucks

---

**From:** Jim Nicol  
**Sent:** Friday, February 23, 2018 4:19 PM  
**To:** Desirae Bernreuther; Karen Gasmol  
**Cc:** Alan Clay; Norman Kyle; Linda Ungar; Mike O'Donnell  
**Subject:** FW: Vibration Intensities  
**Attachments:** R-Vibration Intensities.pdf

Good afternoon. I became involved with this media request earlier this afternoon. After speaking with Karen and my staff in Corporate Information Governance, I have determined that the two vibration intensities tests carried out in 2011 and 2012 can be released, provided that:

- Any names and/or telephone numbers of the residents at the two locations are redacted . . . which has been done in the attachment; and
- Appropriate communications messages are conveyed at the time of release, including:
  - The tests were done years ago before the new traffic bylaw restrictions were in place
  - Related enforcement of the restrictions

Karen/Desirae . . . I will leave it to you to work on the communications' lines and ask that the information be sent to the reporter . . . the sooner the better.

As a reminder, which I will convey at the next ELT meeting, there are a number of reasons that information can be withheld . . . but these must comply with the criteria as outlined in legislation. When in doubt, always make a quick call to staff in CIG for advice or guidance.

Thx

Jim

Jim Nicol  
City Clerk  
City of Regina  
2476 Victoria Avenue  
Regina, SK S4P 3C8

**From:** Darlene Loucks  
**Sent:** Friday, February 23, 2018 4:01 PM  
**To:** Jim Nicol <JNICOL@regina.ca>  
**Subject:** Vibration Intensities

Hi Jim,

The redacted document is attached.

Darlene Loucks  
Privacy & Freedom of Information Officer  
Office of the City Clerk

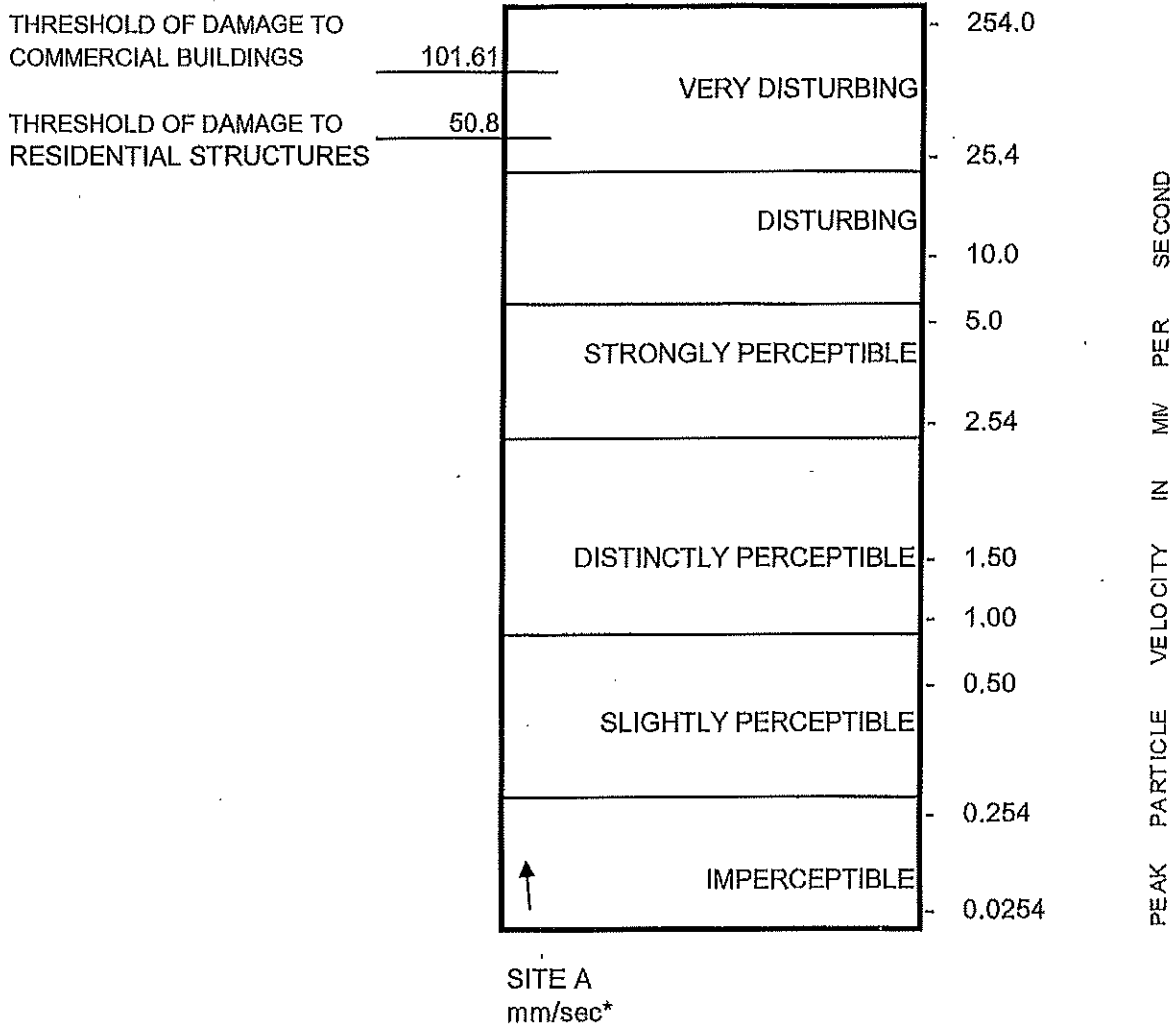
C: 306-777-7070  
F: 306.777.6809  
E: [dloucks@regina.ca](mailto:dloucks@regina.ca)  
Regina.ca



7200 DEWDNEY

Sept. 20/11

RANGE OF VIBRATION INTENSITIES



\*Total Vibration equals the square root of the sum of vertical measurement (z)<sup>2</sup> + horizontal direction (x)<sup>2</sup> + horizontal direction (y)<sup>2</sup>

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	y	0.964		0.929	
	z	0.250		0.062	
	total				
2	x	<del>0.272</del> 0.868		0.753	1.53
	y	0.912		0.832	
	z	0.272		0.753	
	total			2.339	
3	x				
	y				
	z				
	total				

W.B.

E.B.

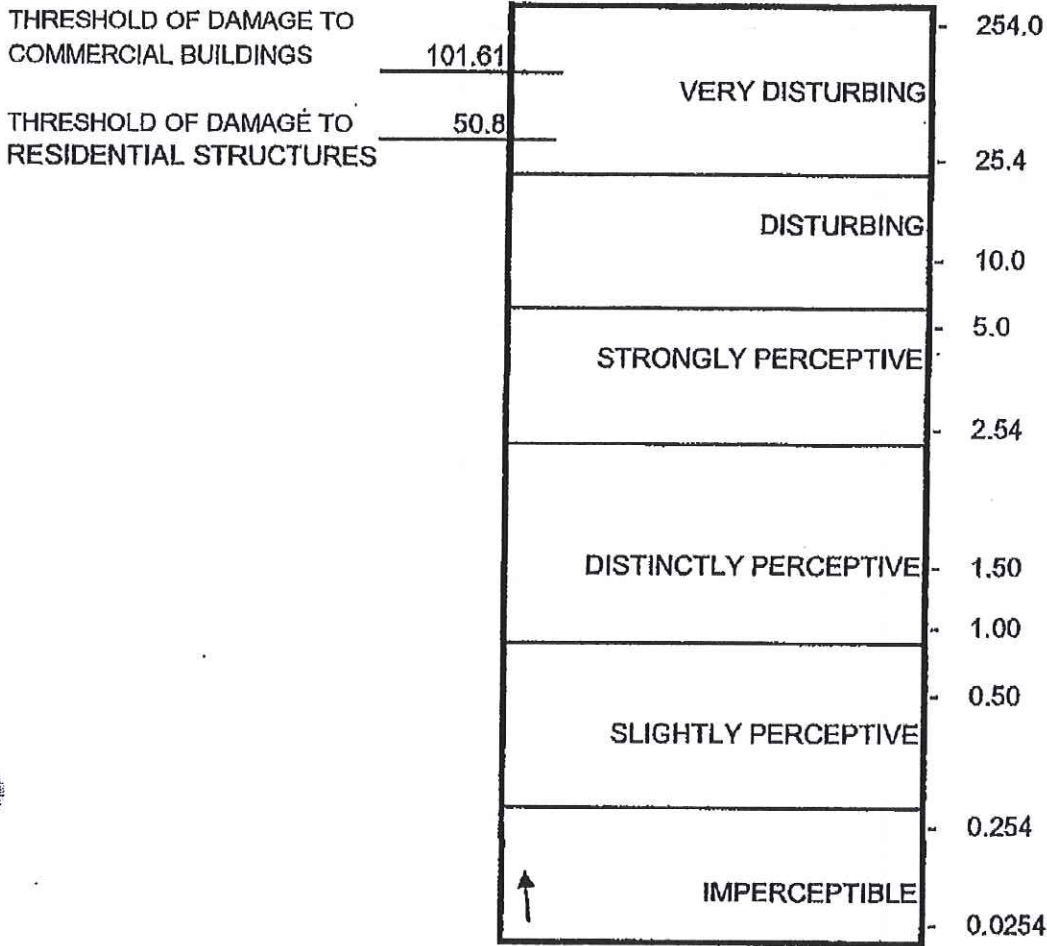
Sept. 20/12

6704 Dawdney

8:00 am

15° 28(1)

RANGE OF VIBRATION INTENSITIES



SITE A  
mm/sec\*

\*Total Vibration equals the square root of the sum of vertical measurement (z)<sup>2</sup> + horizontal direction (x)<sup>2</sup> + horizontal direction (y)<sup>2</sup>

Test	Coordinate	Reading	Location	(Reading) <sup>2</sup>	Sq Root of Total
1	x	3.5		12.25	4.45
	y	2.68		7.18	
	z	644	Semi - test	.415	
	total			19.845	
2	x	4.40		19.36	6.14
	y	4.20		17.64	
	z	868	Carb lane	.753	
	total			37.753	
3	x	2.98		8.88	3.909
	y	2.52		10.35	
	z	.230		.053	
	total		driving lane		