



MONTHLY REPORT SUMMARY

Stoney Trail #1

BLV Group

Name/Location

Company

April 2016

Monitoring Period

Continuous Ambient Monitoring				
Parameter	% Time Operational	Average	Maximum	Number of Hours above Industrial Standards
Sound dB A	100%	44	59	0
PM2.5 $\mu\text{g}/\text{m}^3$	100%	29.2	56.8	2
TSP $\mu\text{g}/\text{m}^3$	100%	82.6	156.8	2
Wind Speed km/h	100%	12	35	-
Precipitation mm	100%	-	0.3	-
Trailer Temperature	100%	10	32	-

Sound level is analyzed only for wind speed less than 11 km/h and precipitation less than 3 mm/hour

COMMENTS:

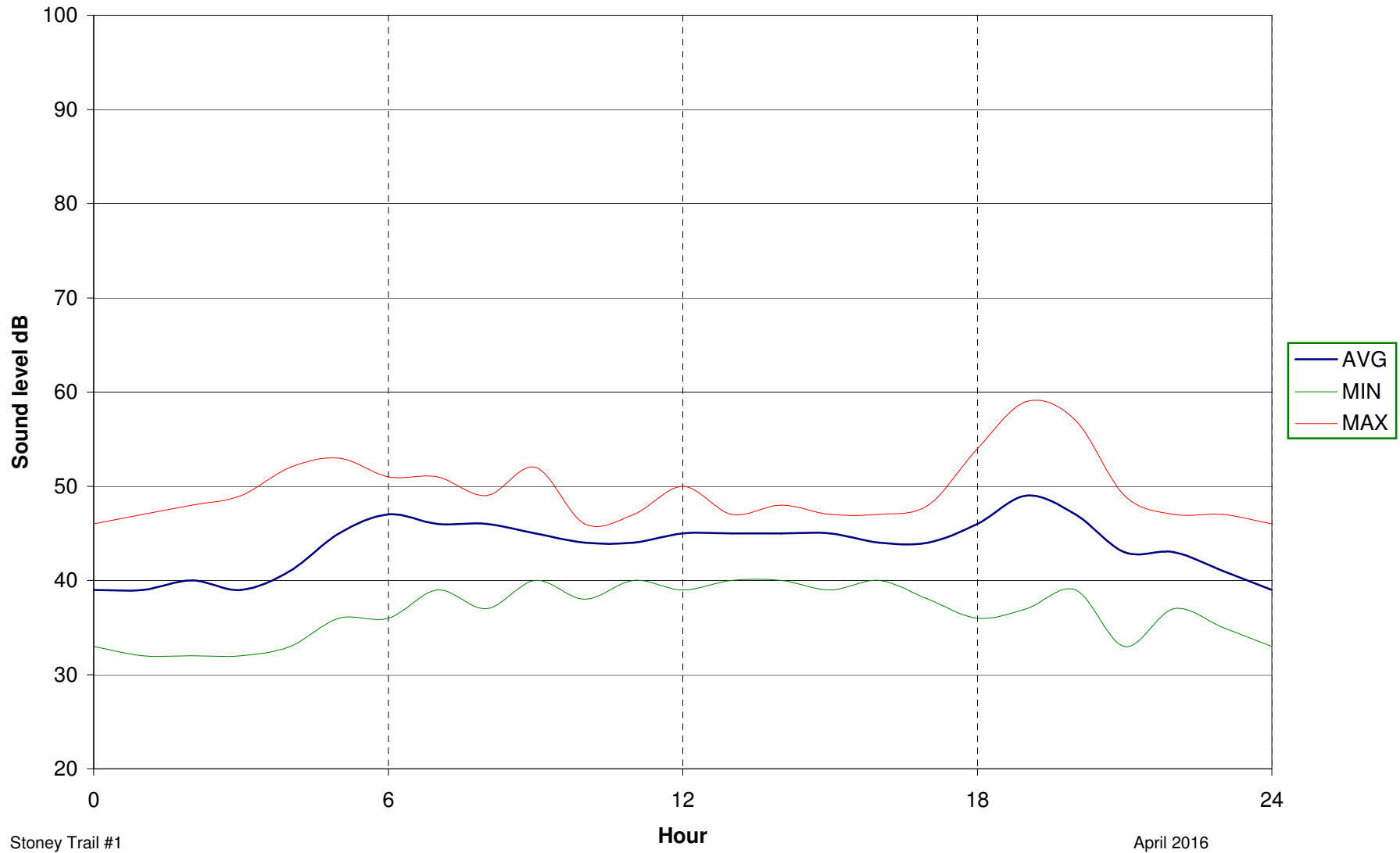
The regulation for industrial areas is 85 dB A any time.

The PM2.5 Standard is $30 \mu\text{g}/\text{m}^3$ for the day.

The TSP Objective is $100 \mu\text{g}/\text{m}^3$ for the day.

One 24 hour sample of PM2.5 and TSP is taken every 6th day following the federal NAPS schedule.

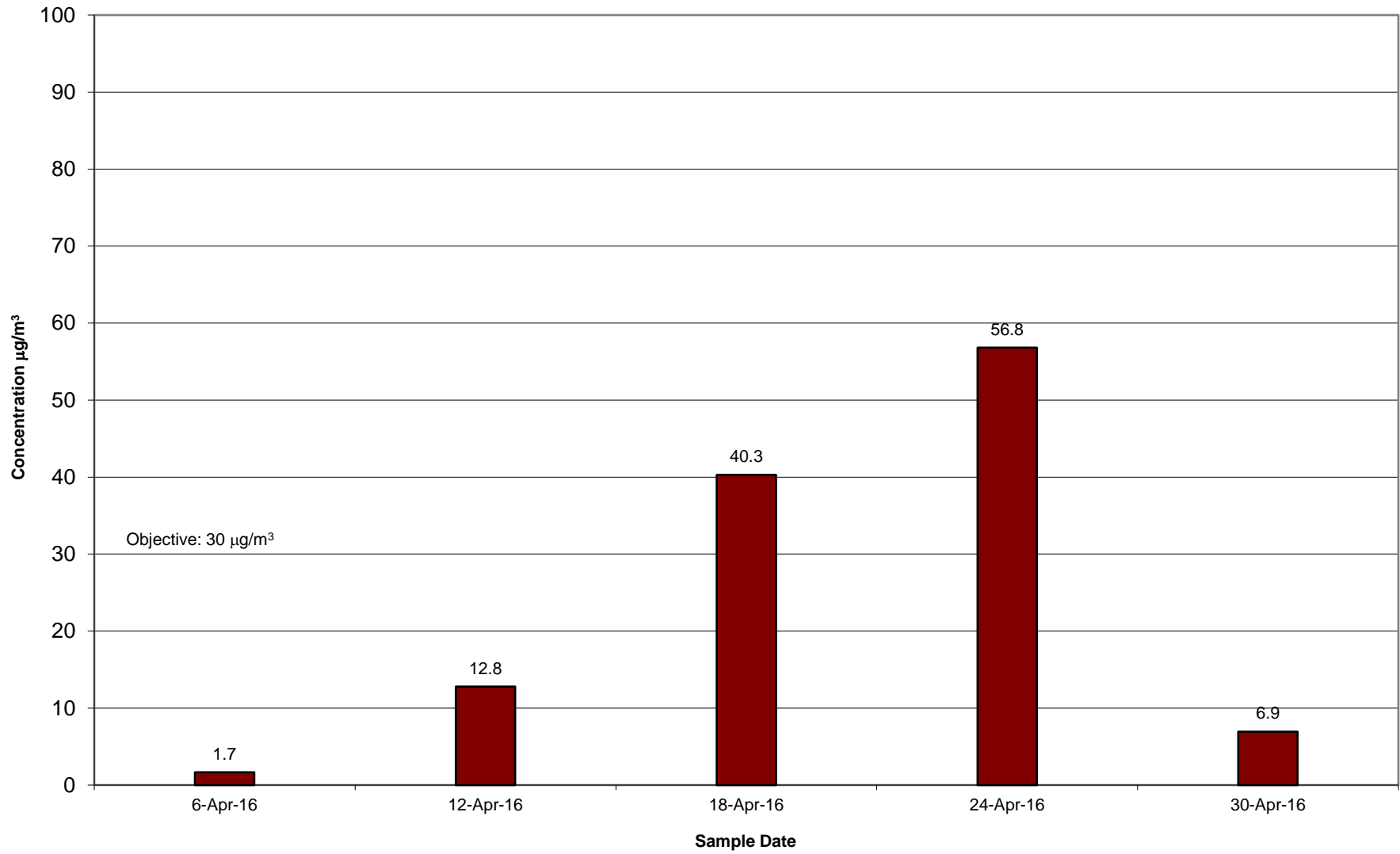
Sound Level by Hour of the Day



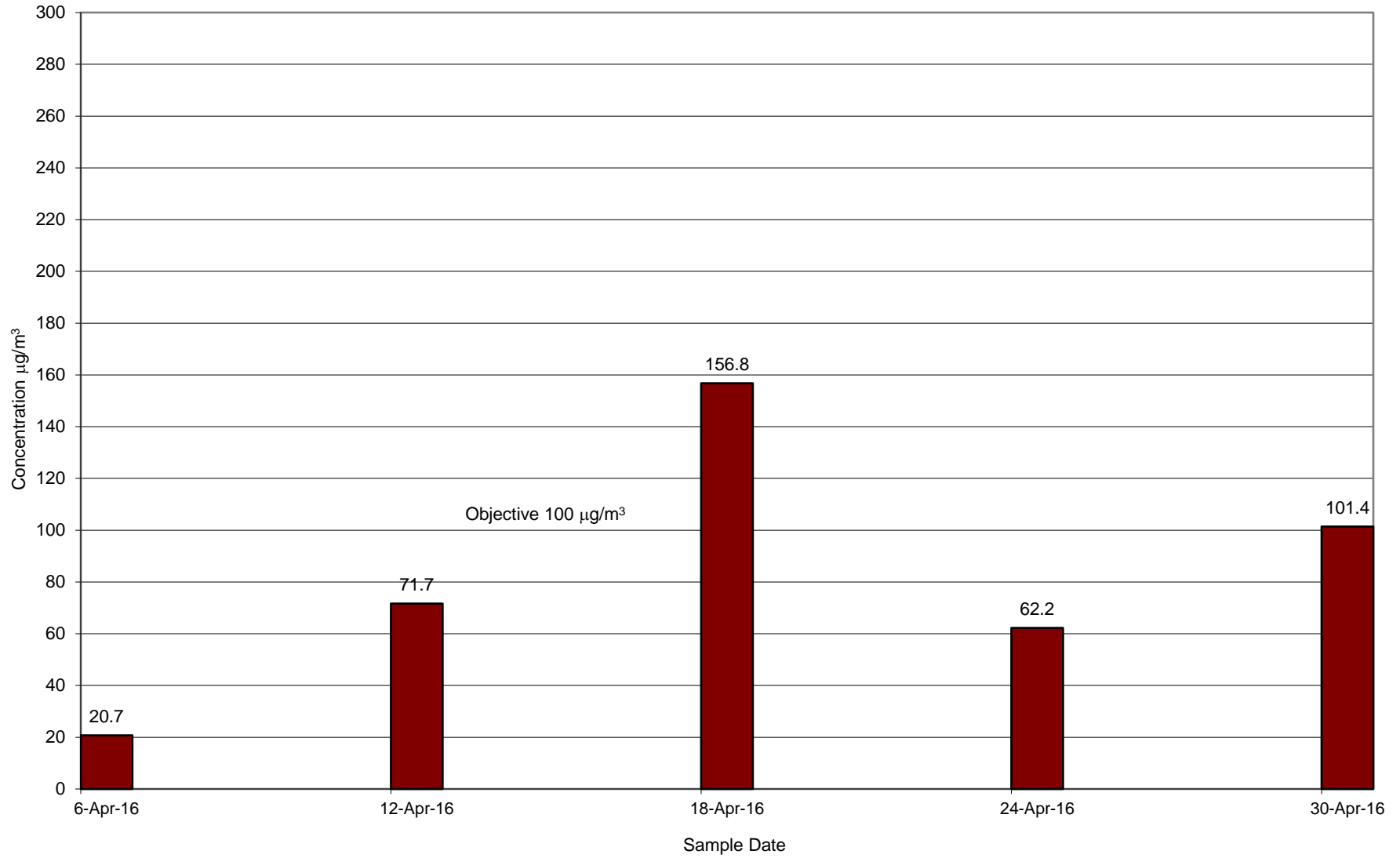
Stoney Trail #1

April 2016

PM2.5 at BLV Group Stoney Trail #1 April 2016



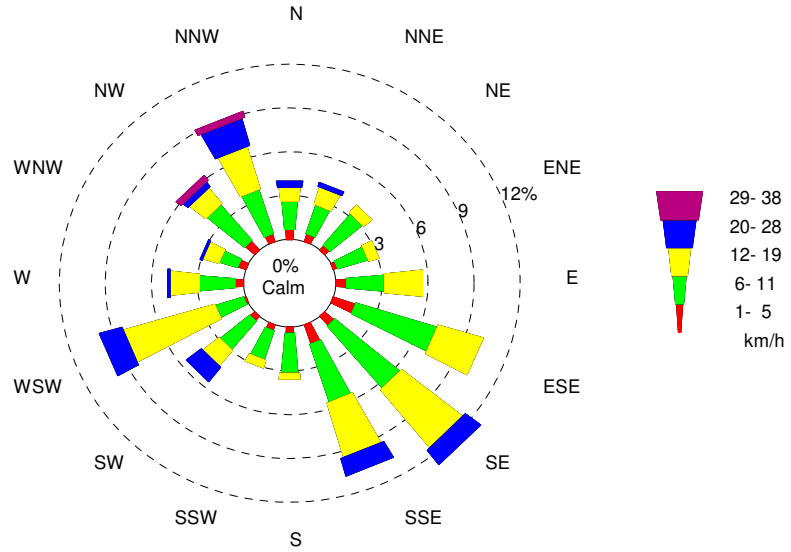
TSP at BLV Group Stoney Trail #1 April 2016



Wind rose for APR 2016

Stoney Trail 1

Bar length is proportional to frequency of winds from its direction



PROMET

30/ 5/2016

SOUND LEVEL [dBA] Leq 1 hour
Lafarge Canada Inc.
Stoney Trail 1
STATION 620
APR 2016

Day	Hour																								Avg		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
1									47	46	C					48	47	46	47		53	46	42	39	40	46	
2	37	37																								37	
3	35				33	41	44	44	44	43	45	46	46	46	47							41	40	42	39	43	
4	37	37	38	37	41	45	48	51	49	47	46	45	42	43	47	43	44	43	44							44	
5								46	44																	45	
6				37																		45	39	41	39	41	
7	37	32	32	33	38	43	47	44	46	45	45	46	46	45		46	46	48			51	49	41	41	44		
8	39	40	40				49	50	49	46	46										48	42			46		
9																										M	
10	35	33	32	32	33	39	43	42	42	43	42	40	42	44	45	45									40	41	
11	38				41	44	47	48	44	45	46		49										42	38	40	37	44
12	37	44	48	49	44	48	50	50	49	52			50	42	43											48	
13					38	43	48																			43	
14		47	48	39	42	47	50	46	48	44	46	44	45	47		47	46	45	45	45	44	37	41	46	40	45	
15	39	36	35	40	44	48	51	47	44																	38	44
16	37	35	34	34	34			45	43	44	44	46	45	47	46	47	44	42	43	40	41	41	41	41	37	42	
17	35	33	35	35	34	39	42			41	43	45	45	46	45	46	44	46	42	43						42	
18		36	36	38	41	46	49	49																		39	43
19		39	36									44	45	46	46	46					42	45	48	45	45	41	44
20	37					44	45	44	43			46	45	46												47	45
21	46						47	45	45	45	47															44	46
22	36	37	39	39				46											43	44	46	44	45	46	46	43	
23		45	43	38	41	41	43	44	45	44	40	41		40				42	38	36	37	39	33	38	35	41	
24	35	35	34	34	34	36	36	39	37	40	38	41	39							41			39	37	35	38	
25	33	33	32	32	34	44	42	46	47											45	45	44	42	39	36	41	
26	34	33	33	39	43	46	49	48	48	45	46	43	43	43				47		53	57	49	45			47	
27		41	39	41	47	49	51		45	46	45	46														47	
28	44	45	46	44	52	53																				48	
29																										53	
30	44	43	42	40	40	45	46	44	44	44	42	40	41	43	41	40	39	42	40		54	59	56	45	45	45	
AVG	39	39	40	39	41	45	47	46	46	45	44	44	45	45	45	45	44	44	46	49	47	43	43	41		41	
MAX	46	47	48	49	52	53	51	51	49	52	46	47	50	47	48	47	47	48	54	59	57	49	47	47		47	
MIN	33	32	32	32	33	36	36	39	37	40	38	40	39	40	40	39	40	38	36	37	39	33	37	35		35	

*** SOUND DATA REPORTED ONLY FOR WIND SPEED < 11.5 KM/H ***

Percent of time operational: 100 M - missing data
 Monthly Average: 44 Monthly Maximum: 59 Monthly Minimum: 32 C - Calibration
 Averages are computed only when time operational > 75%
 Median: 43.7
 *** No Exceedances of Guideline ***

ABSTRACT OF THE WIND
Lafarge Canada Inc.
Stoney Trail 1
STATION 620
APR 2016

HOUR DAY	ALL TIMES ARE L.S.T.					SPEED [km/h]					ANEMOMETER HEIGHT 10 m										MEAN SPD	MAX VEL	PREV DIR	MISS OBS				
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20					21	22	23	24
1	WSW	WSW	W	W	WNW	WNW	W	W	W	WNW	NNW	NW	NW	NNW	N	SW	N	SE	E	E	SE	SE	SE	SSE	11	16	WSW	0
2	SSW	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	17	25	WSW	0
3	W	NW	NNW	NNW	NNW	NW	WNW	NW	NW	SW	SE	SSE	SSE	SSE	SSE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	9	14	ESE	0
4	ESE	ESE	SE	SSE	SE	SSE	SSE	S	SSE	S	S	SSE	SSE	SE	S	SSW	SSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	10	30	SSE	0
5	NW	NW	NW	NW	NW	NW	NW	NNW	W	NW	NNW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	18	33	WSW	0
6	SW	SW	SW	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	16	23	WSW	0
7	NNW	NW	NW	NW	W	SW	SW	S	SSE	SSE	SE	E	ENE	ENE	ENE	E	E	E	E	E	E	E	E	ESE	9	13	E	0
8	ESE	SE	SE	SSE	SSE	SSE	S	S	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	13	25	SSW	0
9	NNW	NNW	NNW	NNW	NW	NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	23	35	NNW	0
10	NNE	N	NNW	NNW	SW	S	S	S	S	NNE	NE	ESE	NE	ESE	NE	ESE	NE	ESE	NE	ESE	NE	ESE	NE	ESE	9	15	ESE	0
11	SE	SSE	SSE	S	S	SSE	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	11	20	SSW	0
12	NW	NW	NW	W	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	11	17	SSW	0
13	W	WSW	W	W	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	12	18	WSW	0
14	N	NNE	WNW	W	WSW	WSW	NE	N	NW	NW	N	NE	NNE	ENE	ENE	NE	NNE	NE	NNE	N	NNW	NW	NW	NW	8	17	SSW	0
15	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	11	18	SSW	0
16	S	WSW	SW	SW	WSW	WSW	WSW	NNW	N	NE	ENE	E	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	9	13	ESE	0
17	SSE	SSW	SSW	SW	SW	WSW	WSW	NNW	NNE	SE	SE	SSE	ESE	SE	ESE	SSE	SE	ESE	SSE	SE	ESE	SSE	SSE	SSE	10	20	SSW	0
18	SSE	SSE	SSE	S	S	SSW	SSW	S	SSE	SSE	S	SSE	SSE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SSW	16	25	SSW	0
19	SSW	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	11	19	SSW	0
20	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNE	NE	ENE	E	ESE	E	E	E	E	E	E	E	E	E	ESE	ESE	14	26	E	0
21	SE	SE	SE	SE	SSE	SSE	SSE	SSE	SE	ESE	ESE	ESE	E	E	ENE	ENE	ENE	NE	NNE	NNW	NNW	N	NNE	NNW	14	26	SE	0
22	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	N	NNE	NNE	NNE	NE	ENE	ENE	ENE	ESE	WSW	N	NNE	NE	NE	NNW	12	19	SSW	0
23	NE	NE	NNE	N	N	NNE	N	NNE	NNE	NNE	NE	NE	ENE	ENE	NE	NE	ENE	NE	ENE	E	E	E	E	E	9	13	SSW	0
24	ESE	ESE	E	ESE	E	ESE	E	ESE	E	ESE	ESE	E	ESE	ESE	E	ESE	E	ESE	E	ESE	ESE	ESE	ESE	ESE	8	13	SSW	0
25	ESE	E	ENE	ESE	SSE	SSW	NE	N	NNW	NNW	NNW	NNW	NNW	N	N	NNE	NNE	NNE	NE	NE	SSW	WNW	WNW	WNW	10	23	SSW	0
26	W	W	NNW	NNW	NNW	W	WNW	NNW	N	N	NNE	ENE	ENE	ENE	E	E	E	ESE	ESE	SE	SSE	SSE	SSE	SSE	9	13	SSW	0
27	SSE	SSE	SSE	S	E	ESE	SSE	S	SE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	10	18	SSW	0
28	SE	SE	SE	SE	SE	SSE	SSE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	17	27	SSW	0
29	SSE	SSE	SSE	SSE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	SE	15	22	SSW	0
30	SE	SE	SE	SE	E	NW	N	N	NNW	ENE	ENE	NW	NNE	WNW	SSW	SE	SSE	SE	SSE	SSE	SSE	S	S	S	5	10	SSW	0

MEAN
SPEED 12 11 11 11 10 10 9 10 11 12 12 12 13 13 14 13 14 14 14 12 12 11 12 12 11 12 35 SE 0
NOTE: Missing data represented by M; no clear prevailing direction represented by SVL; calm winds represented by CALM
WS UPTIME 100 % WD UPTIME 100 %

Date of Last Calibration 060221 Make and Model of Instrument: RM Young5103

FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION
Lafarge Canada Inc.
Stoney Trail 1
STATION 620
APR 2016

SPEED [km/h]	WIND DIRECTION														TOTAL	PCT												
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW			NW	NNW										
< .5																									0	0		
1- 5	5	5	4	3	2	5	11	6	10	3	3	3	1	4	4	6	4	7	4	4	6	4	7	4	7	74	10	
6- 11	14	14	15	20	15	18	40	40	30	20	15	18	14	17	9	23	23	331	46	23	247	34	20	247	34	46		
12- 19	7	9	5	5	18	22	37	28	3	4	10	45	14	8	10	22	247	34	1	3	14	62	9	14	62	9		
20- 28	3	2	0	0	0	0	9	9	0	0	9	11	1	1	3	14	62	9	0	0	0	3	3	6	14	62	9	
29- 38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	6	9	0	0	0	3	3	6	9	14	62	9
TOTAL	29	30	28	22	41	73	92	77	26	22	40	71	36	22	45	66	720	100	4	4	3	6	9	14	62	9	100	
PERCENT	4	4	4	3	6	10	13	11	4	3	6	10	5	3	6	9	100	100	0	0	0	0	0	0	0	100	100	
AVERAGE	11	11	9	9	10	10	12	12	9	9	14	15	11	10	12	15	12	12	12	12	12	12	12	12	12	12	12	12

PRECIPITATION [mm]
 Lafarge Canada Inc.
 Stoney Trail 1
 STATION 620
 APR 2016

Day	Hour																								Tot	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	.3	.3
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	.2	0	.4
25	0	0	0	.2	0	0	.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	.7
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTL	0	0	0	.2	0	0	.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	.2	0	0	.3
MAX	0	0	0	.2	0	0	.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	.2	0	0	0	.3

Percent of time operational: 100
 Monthly Total: 1 Maximum in an hour: .3
 Year to Date: 11 M - missing data

TRAILER TEMPERATURE
Lafarge Canada Inc.
Stoney Trail 1
STATION 620
APR 2016

Day	Hour																								Avg
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
1	6	7	8	8	8	7	6	7	10	14	18	19	20	21	22	23	23	23	21	16	12	10	8	7	13
2	6	6	6	7	7	8	8	10	13	16	18	20	21	21	20	19	20	19	18	15	13	11	10	9	13
3	8	8	7	6	6	6	6	6	7	9	12	16	17	18	19	20	19	19	17	14	11	9	7	6	11
4	5	4	3	3	4	4	3	4	4	6	8	11	12	14	14	14	14	13	12	11	9	9	8	7	8
5	6	5	4	3	2	2	1	4	7	9	12	13	14	15	15	15	15	13	11	10	8	8	8	8	9
6	7	6	6	5	5	6	6	7	10	12	14	16	16	17	17	18	17	17	15	13	11	8	6	5	11
7	4	3	2	1	1	0	0	4	8	11	14	17	18	19	19	20	20	20	18	14	11	9	7	6	10
8	5	4	3	3	2	2	2	2	4	10	15	19	21	21	21	21	21	22	22	19	16	14	14	13	12
9	12	10	8	7	5	5	5	7	9	11	12	14	15	16	16	15	13	12	11	10	9	8	7	5	10
10	3	0	-2	-4	-5	-5	-5	-2	2	6	9	10	10	10	12	13	12	12	10	8	5	4	2	1	5
11	0	-1	-2	-2	-3	-3	-3	0	4	10	14	18	19	20	20	19	18	18	18	15	12	10	8	8	9
12	6	4	3	2	2	2	3	6	10	13	15	17	19	20	20	19	18	16	15	14	12	11	10	9	11
13	9	8	8	8	8	7	6	7	9	10	12	15	16	18	18	18	16	14	12	11	9	7	6	5	11
14	4	3	1	0	0	1	1	2	4	5	7	9	10	11	11	10	10	10	9	8	6	6	5	4	6
15	4	4	4	3	2	0	-1	1	6	10	12	14	15	16	17	17	17	15	12	9	8	6	5	9	
16	4	3	3	4	4	5	6	7	10	14	16	19	20	21	20	21	22	21	18	15	12	9	8	7	12
17	5	5	5	5	5	4	6	9	13	16	19	22	23	24	24	25	26	26	24	20	16	14	12	11	15
18	10	9	7	6	6	6	7	11	14	17	19	21	23	24	25	26	26	26	24	20	17	15	13	12	16
19	11	11	11	11	12	13	14	16	18	22	25	28	29	30	31	32	32	30	26	21	17	15	13	13	20
20	13	13	12	11	10	8	7	8	11	15	17	19	20	20	21	22	22	22	20	17	14	12	11	9	15
21	8	7	7	7	6	5	5	8	12	15	17	19	20	22	23	25	25	25	23	20	17	14	12	9	15
22	7	6	5	5	4	4	4	5	5	7	9	11	12	13	14	15	16	15	14	12	10	9	8	7	9
23	7	6	4	2	2	2	3	3	5	6	6	6	6	6	6	7	6	5	5	4	5	5	5	5	5
24	4	3	3	3	3	3	3	3	4	4	5	8	9	8	8	8	8	7	6	6	5	4	4	4	5
25	4	4	3	3	3	3	3	4	5	6	6	6	7	7	7	8	7	7	6	6	5	5	4	3	5
26	2	2	2	1	1	1	2	4	7	9	10	10	10	12	13	13	14	13	11	9	8	6	5	5	7
27	5	4	4	3	3	2	3	4	6	10	13	15	15	15	15	16	16	14	13	11	8	7	5	4	9
28	3	2	3	3	3	4	3	4	4	6	8	10	12	13	14	15	15	13	11	9	8	7	6	6	8
29	6	5	5	4	4	3	4	5	9	12	13	14	14	14	14	14	14	13	12	11	9	8	8	8	9
30	7	6	6	6	6	5	5	6	7	10	13	14	14	13	13	14	15	17	17	15	11	7	6	5	10
AVG	6	5	5	4	4	4	4	5	8	11	13	15	16	17	17	17	17	15	13	11	9	8	7	7	
MAX	13	13	12	11	12	13	14	16	18	22	25	28	29	30	31	32	32	30	26	21	17	15	14	13	
MIN	0	-1	-2	-4	-5	-5	-5	-2	2	4	5	6	6	6	6	7	6	5	5	4	5	4	2	1	

Percent of time operational: 100 M - missing data
 Monthly Average: 10 Monthly Maximum: 32 Monthly Minimum: -5