



MONTHLY REPORT SUMMARY

Stoney Trail #1

BLV Group

Name/Location

Company

December 2016

Monitoring Period

Continuous Ambient Monitoring				
Parameter	% Time Operational	Average	Maximum	Number of Hours above Industrial Standards
Sound dB A	100%	53	84	0
PM2.5 $\mu\text{g}/\text{m}^3$	100%	6.6	11.1	0
TSP $\mu\text{g}/\text{m}^3$	100%	19.0	26.8	0
Wind Speed km/h	100%	10	28	-
Precipitation mm	100%	-	0.3	-
Trailer Temperature	100%	-9	6	-

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

COMMENTS:

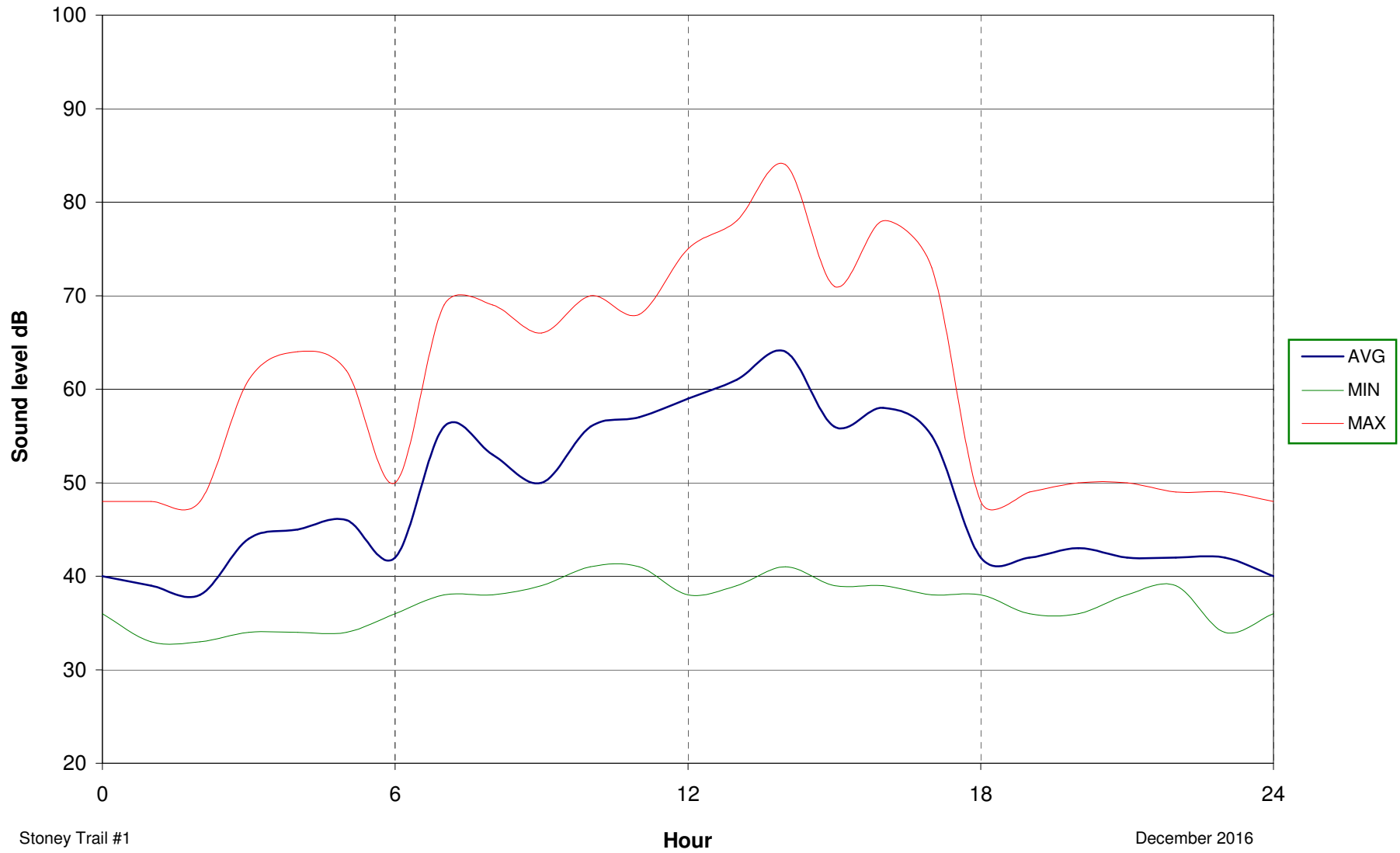
The regulation for industrial areas is 85 dB A any time.

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

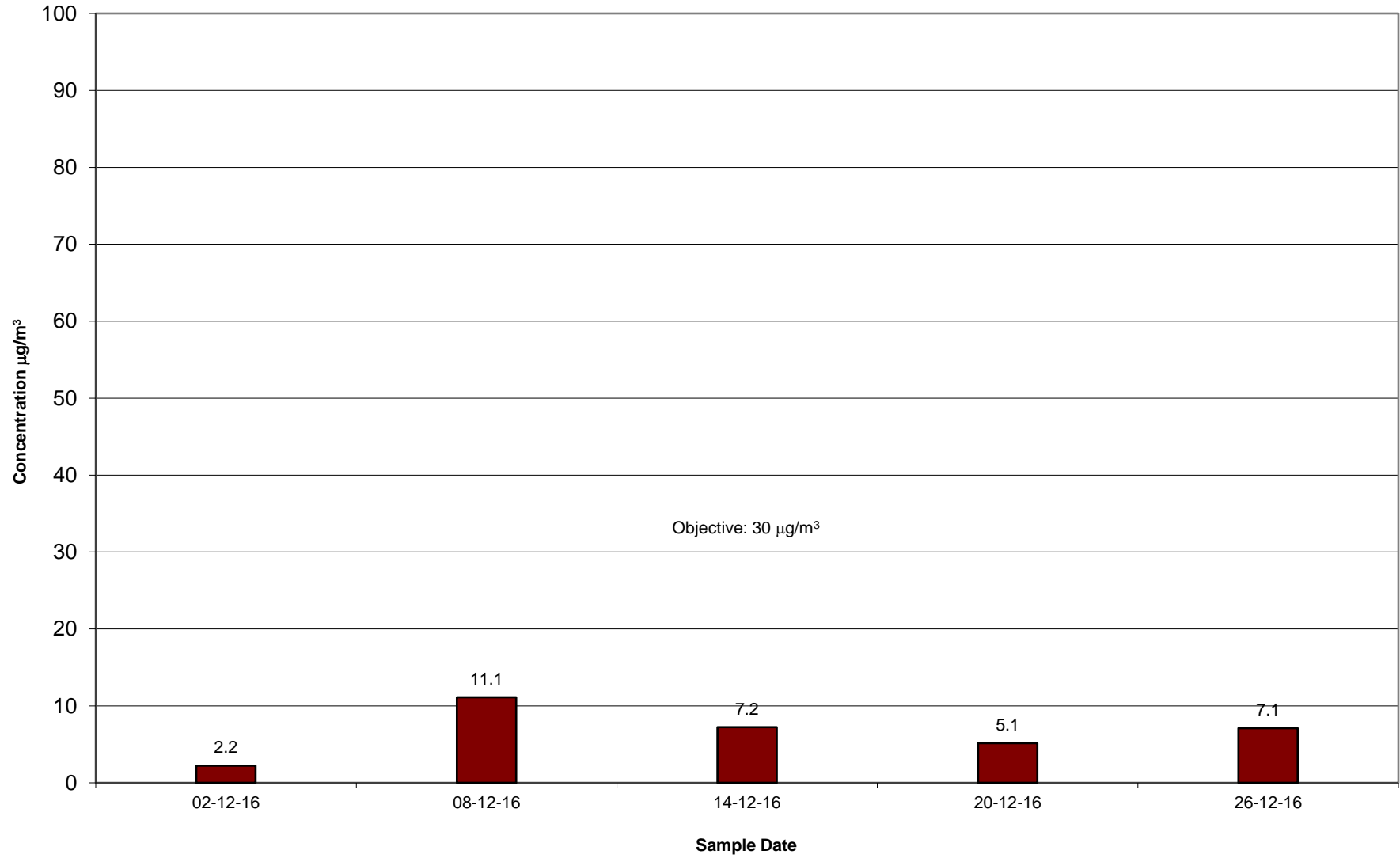
The TSP Objective is 100 $\mu\text{g}/\text{m}^3$ for the day.

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

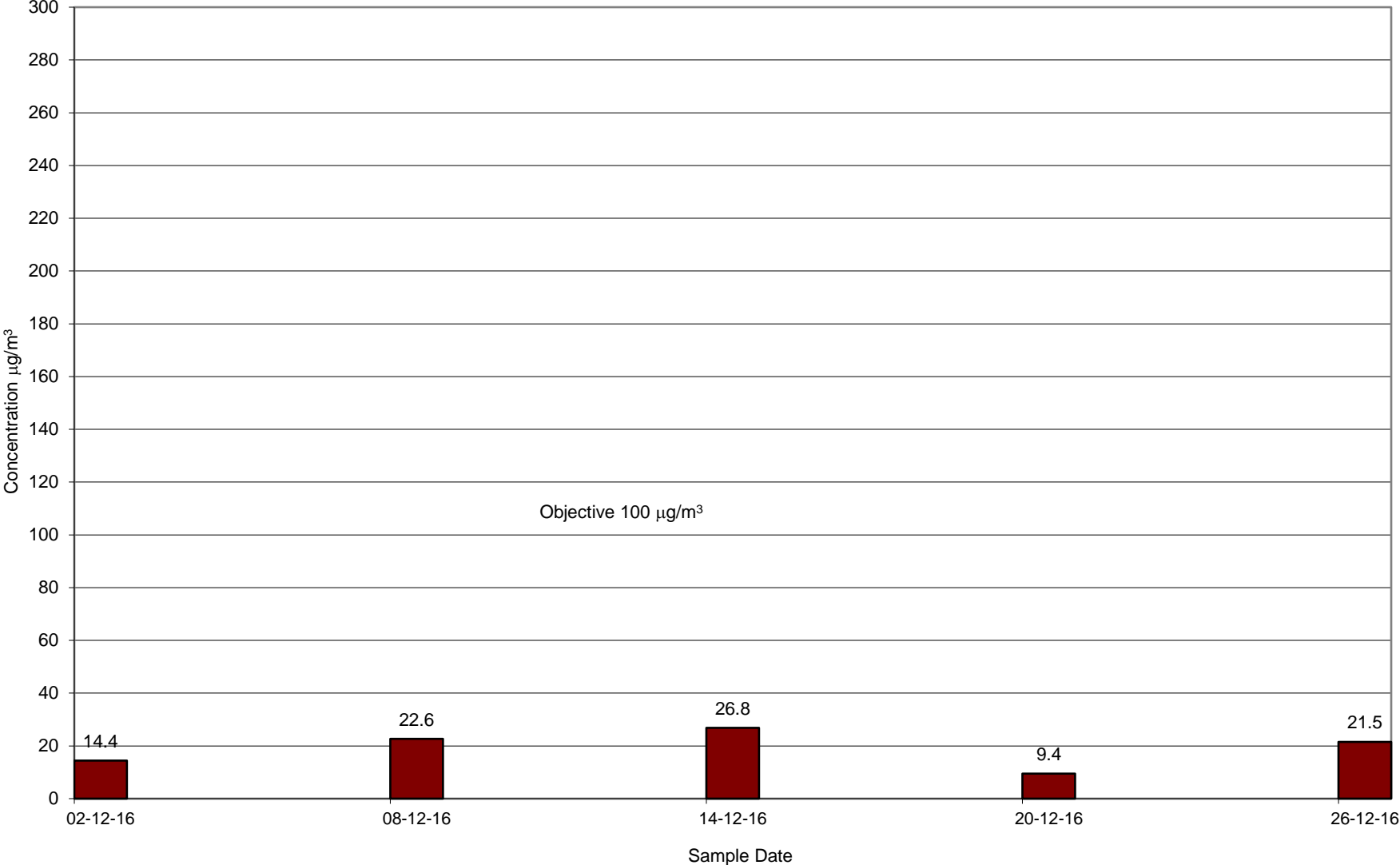
Sound Level by Hour of the Day



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

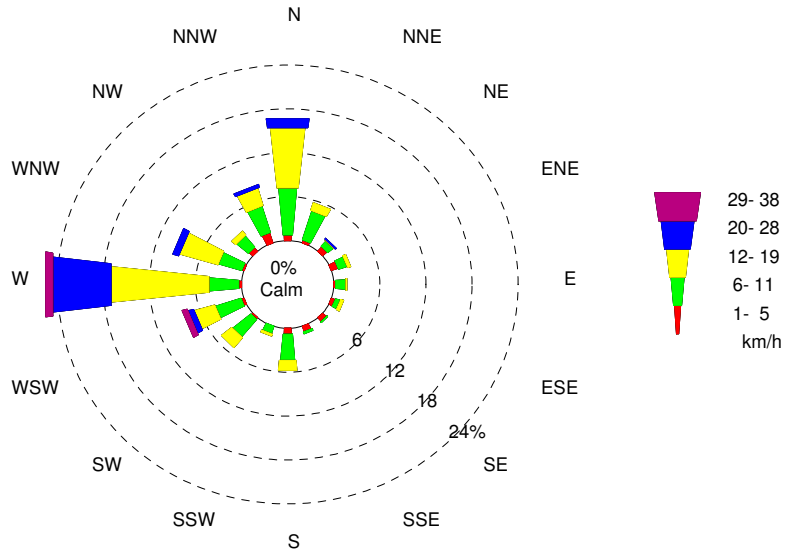


TSP at BLV Group Stoney Trail #1 December 2016



Wind rose for DEC 2016
Stoney Trail 1

Bar length is proportional to frequency of winds from its direction



ABSTRACT OF THE WIND
Lafarge Canada Inc.
Stoney Trail 1
STATION 620
NOV 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	N	N	N	N	N	N	SW	NNE	NE	SSW	SSW	SW	SSW	S	S	S	S	SSW	SW	WSW	W	SW	SW	SSW			N	0				
2	S	S	S	SSW	SSW	SW	SW	WSW	WSW	SW	SSW	SSW	S	SSE	SE	WSW	WSW	WSW	WSW	SW	WSW	WSW	SW	SW	WSW			WSW	0			
3	SSW	SW	WSW	WSW	WSW	SSW	SSW	W	W	W	W	WSW	WSW	WSW	WSW	WSW	WSW	W	WSW	SW	SW	E	NE	ESE				WSW	0			
4	SSE	S	S	SW	WSW	W	WSW	NW	NW	W	WSW	WSW	WSW	SE	ENE	WNW	W	W	W	SW	SW	SSW	SSW					WSW	0			
5	WSW	WSW	WSW	W	W	W	WSW	W	WSW	WSW	SSW	S	SSE	S	NNW	WSW	W	WSW	SSW	SSW	SSW	SSW	WSW					WSW	0			
6	SSW	SSW	WSW	WSW	SSW	SSW	WSW	WSW	N	N	N	N	N	N	N	N	N	NNW	NNW	WSW	SSW	SSW	SSW					N	0			
7	SW	SW	SW	SW	SW	SSW	SSW	SW	SW	SW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW					SW	0			
8	SW	SW	WSW	WSW	W	WSW	W	WSW	WSW	SW	SW	SSW	SSW	WSW	NNW	NW	S	SW	NNW	SW	SSW	SSW	SSW					SW	0			
9	WSW	SSW	SSW	SSW	SSW	SSW	W	WSW	WSW	WSW	SSW	SSW	SSW	SSW	NNW	NNE	NNE	N	NNW	W	WNW	W	W					SVL	0			
10	NW	NE	ESE	SE	S	S	SSW	S	S	S	S	S	S	S	S	S	S	S	S	S	S	SSW	SSW					S	0			
11	WSW	WSW	W	W	WSW	WSW	W	WSW	WSW	SW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW					SSW	0			
12	SSW	SW	WSW	WSW	WSW	W	WSW	WSW	SSW	SSW	SSW	S	S	SSE	S	WSW	WSW	W	W	W	W	SSW	SSW					SVL	0			
13	SW	W	W	W	WSW	WSW	WSW	W	W	W	W	W	WSW	WSW	W	WSW	WSW	W	WSW	W	W	WNW	W	W					W	0		
14	WSW	WSW	W	WSW	WSW	WSW	WSW	WSW	W	NNW	NW	W	NNW	N	NNW	N	W	SSW	SSW	SSW	SSW	SSW	SSW					WSW	0			
15	SSW	SSW	WSW	W	WSW	WSW	WSW	SSW	SSW	SSE	S	SSW	SE	SE	SSE	S	SSE	ESE	ENE	NNE	N	NNW	NNW	N					WSW	0		
16	N	NNW	N	N	NNW	NNE	NNE	N	NE	ENE	E	ENE	ENE	ENE	ENE	SSW	SSW	S	CLM	WNW	WSW	W	WNW					N	0			
17	NW	N	N	N	N	NNW	NNE	NE	NE	ENE	ENE	ENE	ENE	E	E	ESE	ESE	ESE	ESE	SE	SSE	SSE						SVL	0			
18	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S					S	0			
19	S	S	S	SSE	S	SSE	SSE	SSE	S	SSE	S	S	S	S	SSE	S	S	SSE	S	SSE	SSW	NNW	NNW	W	E				S	0		
20	SSW	SSW	WSW	WSW	WSW	WSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSE	S	S	SSW	SSW	SSW	SSW	WSW	W					SW	0			
21	WNW	WSW	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W					W	0			
22	NNW	NNE	ENE	NE	N	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSE	S	S	S	SSW	SSW	SSW	SSW	SSW	SSW					SSW	0			
23	SSW	SSW	SSW	SSW	SSW	W	W	W	W	W	W	W	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW					SVL	0			
24	W	W	W	W	WSW	WSW	WSW	SSW	SSW	SSW	SSW	S	SSE	SSE	SSE	SSE	S	SSW	SSW	SSW	SSE	S						SSW	0			
25	NNE	SSE	SE	SW	NNW	ESE	SW	SW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW					W	0			
26	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S					S	0			
27	WSW	SW	SW	WSW	WSW	W	WSW	WSW	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W					W	0			
28	N	N	NNW	WNW	WNW	NNW	N	N	N	N	NE	ESE	N	N	NNW	NNE	WNW	W	NNW	NNW	NNW	NNW						N	0			
29	NNW	N	N	NNW	NNW	NNW	W	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW					SVL	0			
30	SSW	SSW	SSW	S	SSW	SSW	SSW	SSE	SSE	S	S	S	SE	S	S	SSW	SSW	S	SSW	SSW	SSW	SSW	SSW					SSW	0			
	10	10	6	3	9	5	9	4	3	6	5	6	8	7	8	9	11	9	8	5	8	8	7	3					7	11	0	
MEAN																																
SPEED	9	9	9	9	9	10	10	10	10	10	11	11	11	11	10	10	10	9	10	10	9	9	8	8	10	28	W	0				

FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION
Lafarge Canada Inc.
Stoney Trail 1
STATION 620
NOV 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																									2	0					
1- 5	3		7		7		3		5		7		12		10		19		6		4		3		3	4	2	102	14		
6- 11	27		5		2		5		4		8		5		21		67		73		64		71		55	16	8	20	451	63	
12- 19	17		6		0		0		0		0		0		23		10		17		18		42		7	1	3	144	20		
20- 28	1		0		0		0		0		0		0		2		1		3		9		5		0	0	0	21	3		
TOTAL	48		18		9		12		7		13		12		33		102		103		90		102		105	26	13	25	720	100	
PERCENT	7		3		1		2		1		2		2		5		14		14		13		14		15	4	2	3			
AVERAGE	11		9		5		5		7		7		6		6		10		9		10		11		12	10	7	8	10		

PRECIPITATION [mm]
Lafarge Canada Inc.
Stoney Trail 1
STATION 620
DEC 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	0	0
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	0	0	0
25	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
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
31	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MAX	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

Percent of time operational: 100 M - missing data
Monthly Total: 1 Maximum in an hour: .3
Year to Date: 444

TRAILER TEMPERATURE
Lafarge Canada Inc.
Stoney Trail 1
STATION 620
DEC 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	-2	-2	-2	-1	-1	-1	-1	-1	-1	-1	0	1	1	1	2	1	1	0	-1	-2	0	0	-1	-2	0	
2	-4	-5	-5	-5	-5	-5	-5	-6	-6	-6	-3	0	1	2	2	2	2	1	1	1	1	2	2	2	-1	
3	2	1	0	0	1	0	-1	-1	-1	-2	1	3	5	5	3	4	3	1	-1	-1	-2	-2	-2	-3	1	
4	-4	-5	-6	-6	-6	-5	-5	-5	-4	-4	-4	-4	-4	-3	-3	-3	-4	-5	-7	-8	-8	-8	-9	-9	-5	
5	-10	-12	-13	-14	-15	-15	-15	-15	-14	-13	-13	-12	-11	-10	-10	-10	-12	-14	-16	-17	-17	-17	-17	-17	-14	
6	-17	-17	-17	-17	-18	-18	-19	-19	-20	-19	-18	-17	-15	-14	-14	-14	-15	-17	-18	-18	-18	-18	-19	-20	-17	
7	-20	-21	-21	-21	-21	-21	-21	-22	-22	-21	-18	-16	-14	-13	-12	-12	-14	-18	-20	-21	-21	-21	-21	-21	-19	
8	-22	-23	-23	-24	-24	-25	-25	-25	-24	-24	-20	-15	-13	-12	-12	-13	-16	-19	-21	-22	-22	-22	-23	-23	-20	
9	-22	-21	-21	-20	-21	-22	-23	-23	-23	-23	-21	-19	-17	-15	-15	-16	-17	-19	-20	-20	-20	-20	-20	-21	-20	
10	-21	-21	-21	-21	-21	-21	-21	-20	-20	-19	-18	-17	-16	-14	-13	-13	-15	-18	-20	-21	-22	-23	-23	-22	-19	
11	-22	-22	-21	-21	-21	-21	-22	-22	-20	-19	-17	-16	-15	-14	-14	-15	-16	-17	-16	-16	-16	-15	-15	-16	-18	
12	-18	-19	-18	-18	-17	-17	-17	-17	-17	-17	-15	-13	-11	-9	-8	-7	-9	-11	-12	-13	-13	-14	-14	-15	-14	
13	-15	-15	-15	-15	-14	-14	-15	-14	-14	-13	-12	-10	-8	-7	-7	-6	-8	-11	-12	-13	-12	-12	-12	-12	-12	
14	-14	-14	-15	-15	-15	-15	-16	-16	-17	-17	-13	-9	-6	-4	-3	-3	-6	-9	-11	-12	-12	-13	-13	-14	-12	
15	-15	-15	-16	-16	-17	-17	-18	-18	-19	-19	-18	-16	-15	-14	-13	-14	-14	-15	-16	-16	-17	-17	-18	-18	-16	
16	-18	-18	-18	-18	-19	-21	-22	-22	-23	-22	-20	-16	-14	-14	-13	-13	-15	-17	-19	-20	-21	-21	-21	-20	-19	
17	-20	-20	-19	-19	-18	-18	-17	-17	-17	-15	-12	-9	-8	-7	-7	-6	-8	-10	-11	-12	-12	-11	-10	-10	-13	
18	-10	-9	-9	-9	-8	-7	-6	-5	-5	-5	-4	-3	-2	-1	-1	-2	-2	-2	-2	-2	-2	-2	-2	-4	-4	
19	-2	-2	-2	-2	-2	-1	-1	-1	-1	-1	0	1	0	0	0	0	-1	-2	-3	-3	-3	-2	-3	-1	-1	
20	-4	-4	-4	-3	-3	-3	-3	-3	-3	-3	-2	0	2	2	3	4	2	1	1	1	1	-3	-4	-4	-1	
21	-6	-5	-4	-3	-3	-2	-2	-1	-1	-1	0	3	4	3	3	3	3	1	1	1	1	0	1	1	0	
22	1	1	1	1	1	0	0	0	0	1	2	4	5	6	6	6	4	2	1	1	1	1	0	-1	2	2
23	-3	-4	-5	-6	-7	-8	-8	-7	-6	-6	-5	-5	-5	-4	-4	-4	-5	-5	-5	-5	-5	-6	-6	-5	-5	
24	-7	-7	-7	-7	-7	-7	-8	-8	-9	-9	-9	-9	-8	-8	-8	-8	-9	-10	-11	-11	-12	-12	-13	-13	-9	
25	-13	-14	-15	-16	-16	-15	-14	-14	-14	-13	-11	-8	-6	-5	-6	-6	-9	-12	-14	-16	-15	-15	-15	-13	-13	
26	-16	-16	-15	-15	-13	-11	-9	-8	-7	-6	-5	-4	-2	0	0	0	-2	-3	-4	-4	-3	-4	-4	-3	-6	
27	-3	-2	-2	-2	-2	-3	-3	-3	-3	-3	-2	0	2	1	2	1	0	-2	-3	-4	-4	-4	-5	-2	-2	
28	-6	-6	-6	-5	-5	-4	-4	-4	-4	-4	-2	-2	-1	1	1	1	-1	-2	-4	-4	-5	-5	-5	-6	-3	
29	-6	-6	-6	-6	-6	-6	-7	-7	-7	-6	-5	-4	-3	-2	-2	-1	-2	-3	-3	-2	-2	-3	-4	-4	-4	
30	-4	-4	-4	-6	-7	-7	-7	-8	-8	-8	-6	-4	-2	0	0	0	-2	-4	-5	-6	-6	-5	-5	-5	-5	
31	-3	-3	-4	-4	-4	-4	-6	-7	-8	-8	-6	-5	-4	-3	-2	-2	-3	-4	-4	-4	-5	-3	-3	-4	-4	
AVG	-10	-11	-11	-11	-11	-11	-11	-11	-11	-11	-9	-7	-6	-5	-5	-5	-6	-8	-9	-9	-9	-10	-10	-10	-10	
MAX	2	1	1	1	1	0	0	0	0	1	2	4	5	6	6	6	4	2	1	1	1	2	2	2	2	
MIN	-22	-23	-23	-24	-24	-25	-25	-25	-24	-24	-21	-19	-17	-15	-15	-16	-17	-19	-21	-22	-22	-23	-23	-23	-23	

Percent of time operational: 100
 Monthly Average: -9 Monthly Maximum: 6 M - missing data
 Monthly Minimum: -25