



## MONTHLY REPORT SUMMARY

Stoney Trail #1

BLV Group

Name/Location

Company

June 2016

Monitoring Period

Continuous Ambient Monitoring				
Parameter	% Time Operational	Average	Maximum	Number of Hours above Industrial Standards
Sound dB A	100%	48	60	0
PM2.5 $\mu\text{g}/\text{m}^3$	100%	14.1	29.7	0
TSP $\mu\text{g}/\text{m}^3$	100%	62.5	130.1	1
Wind Speed km/h	100%	11	26	-
Precipitation mm	100%	-	21.4	-
Trailer Temperature	100%	17	33	-

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

### COMMENTS:

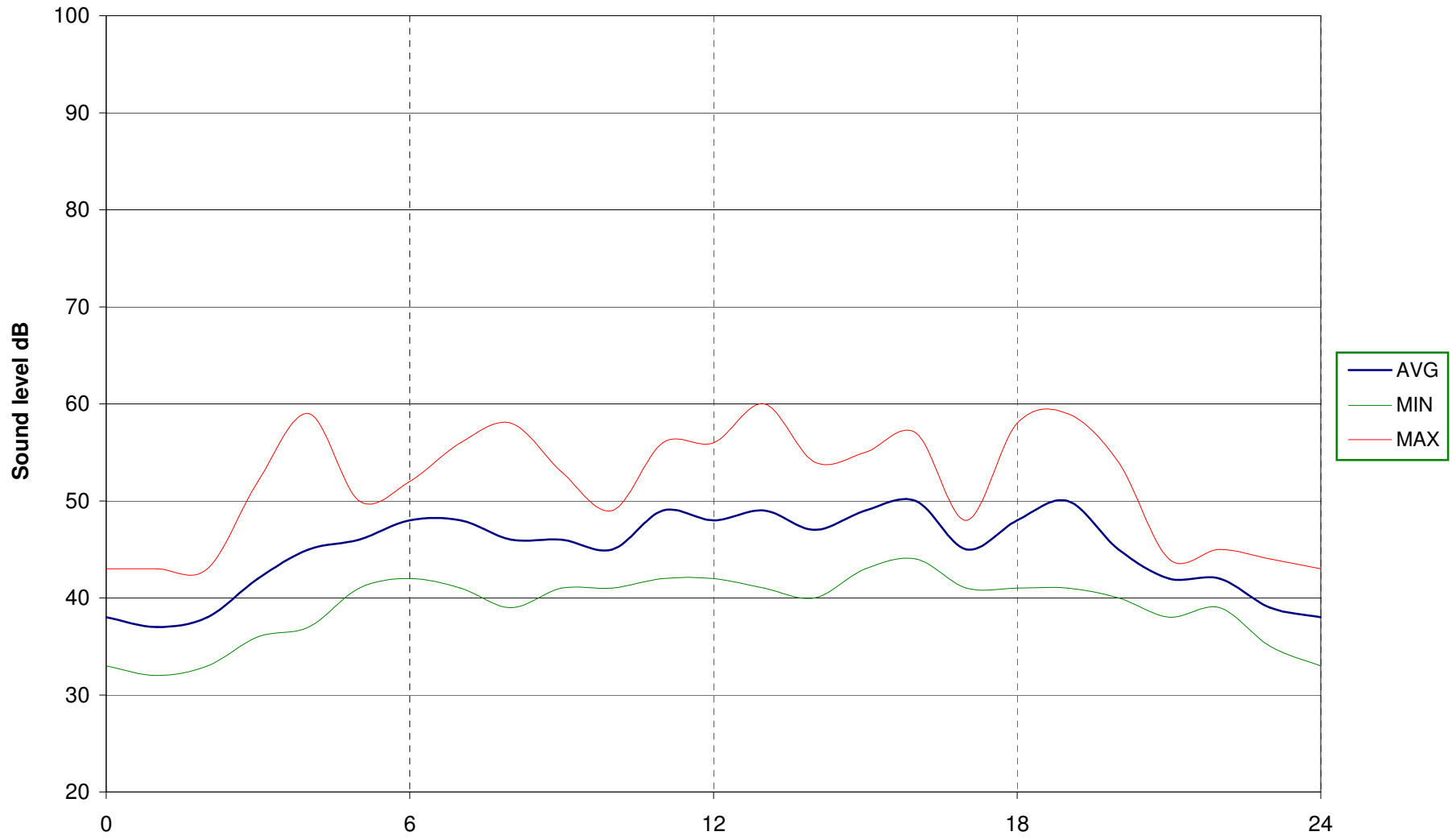
The regulation for industrial areas is 85 dB A any time.

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 6<sup>th</sup> day following the federal NAPS schedule.

### Sound Level by Hour of the Day

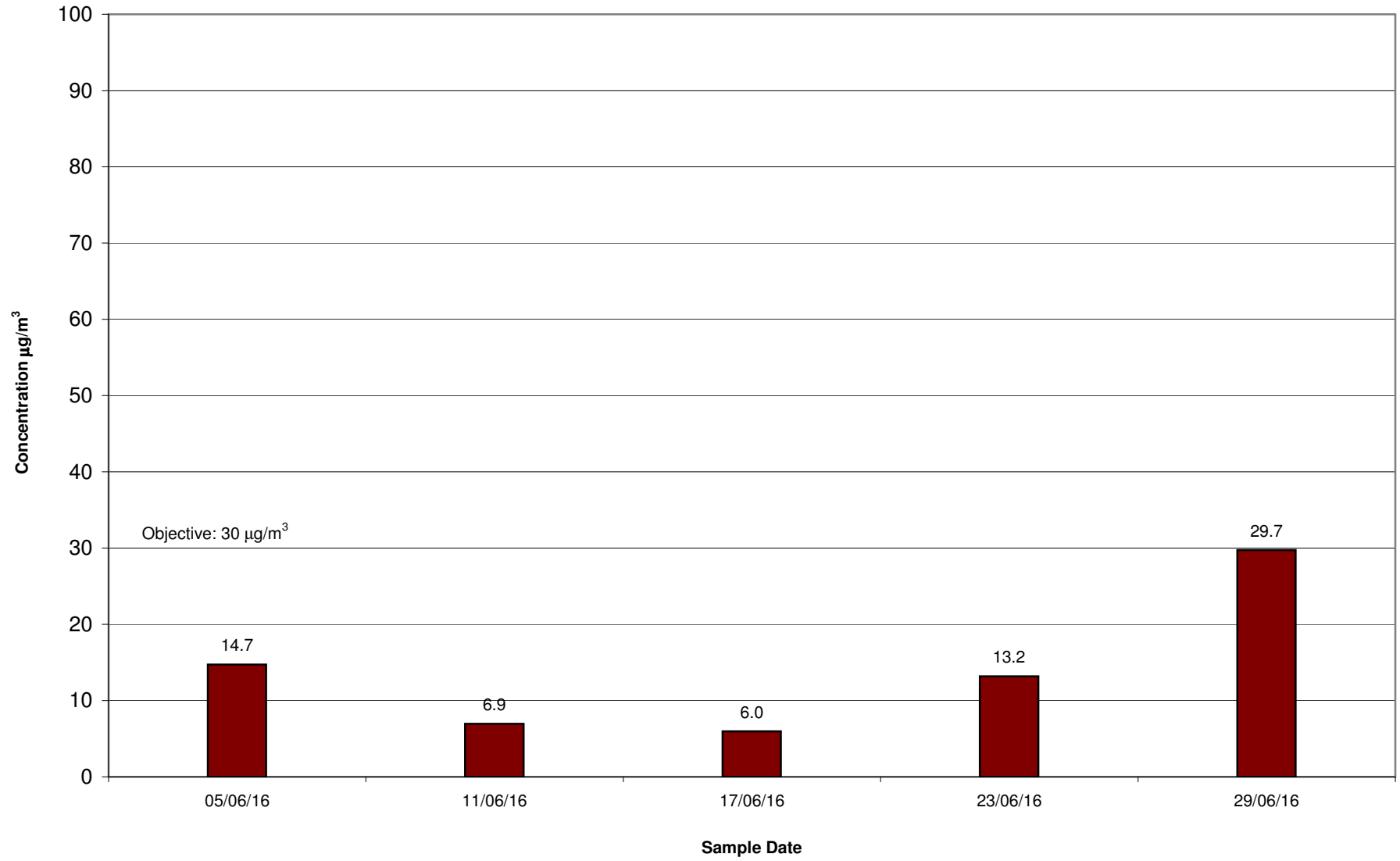


Stoney Trail #1

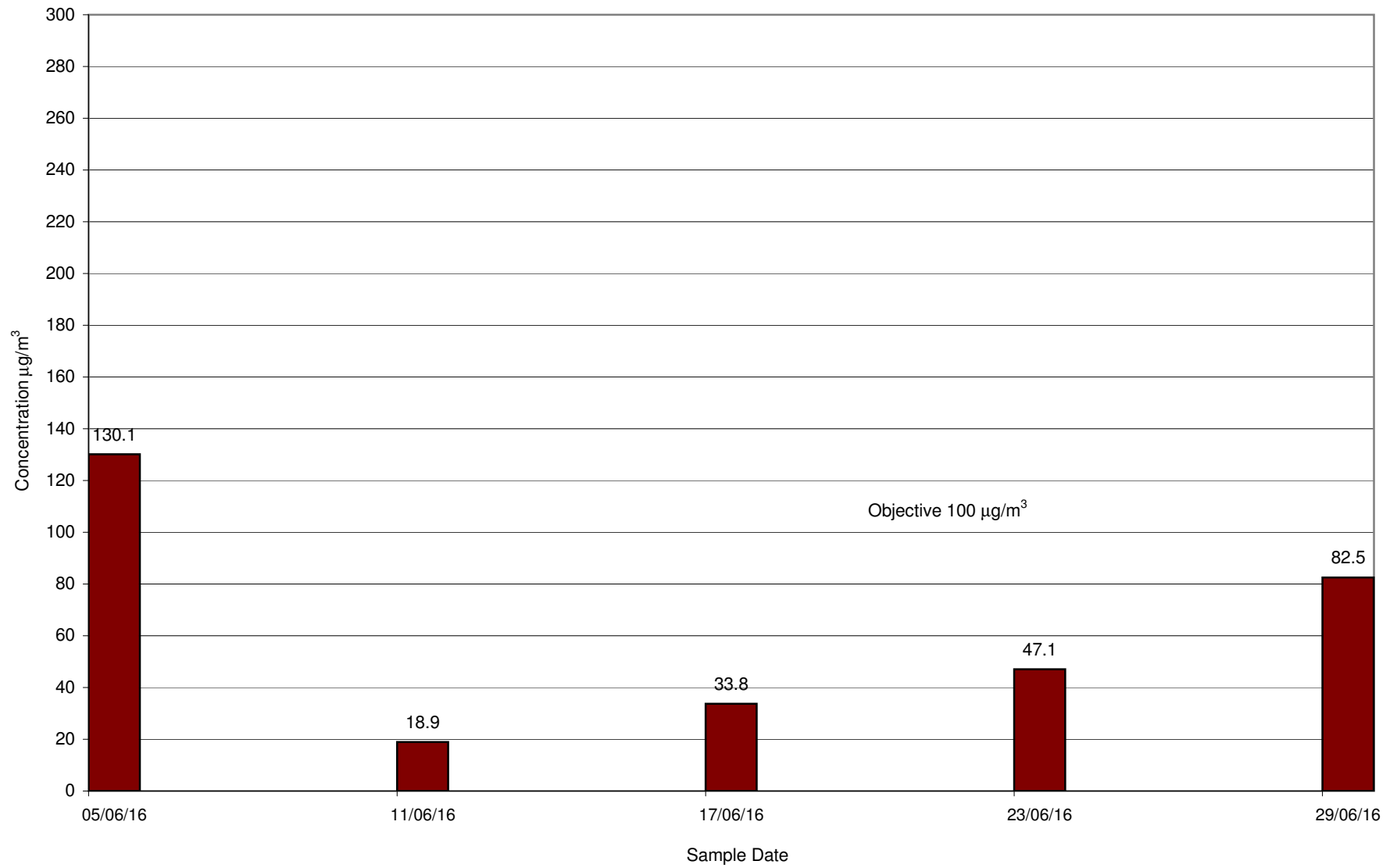
Hour

June 2016

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

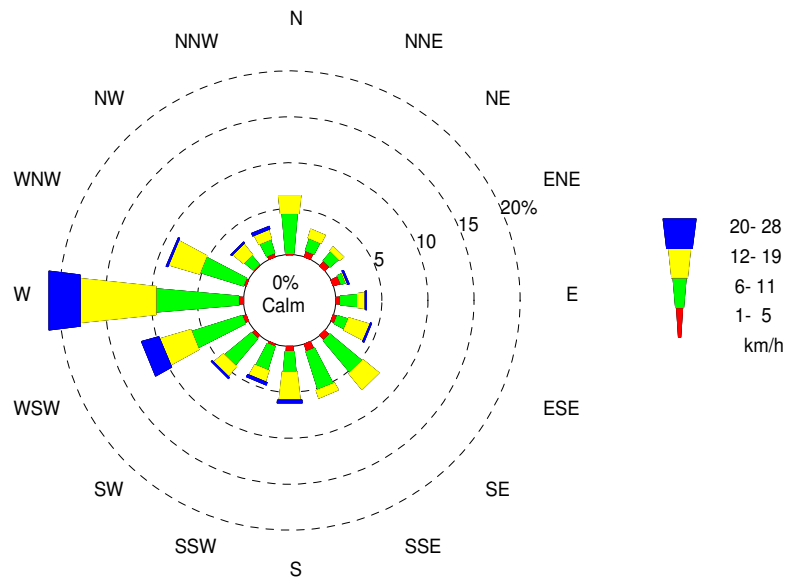


TSP at BLV Group Stoney Trail #1 June 2016



Wind rose for JUN 2016  
Stoney Trail 1

Bar length is proportional to frequency of winds from its direction



SOUND LEVEL [dBA] Leq 1 hour  
Lafarge Canada Inc.  
Stoney Trail 1  
STATION 620  
JUN 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		40	38	42	45	47	48	47	47	47	48	50	47	51	54	53	47	47			45	43	42	36	47
2	33	33	39	44	46	48	50	46	44												43	42	35	43	
3	34	37	37		42	45	51		C	45	49	45	47								44	44	43	39	44
4	37		34	38	40	43	44			46	43	45	47	44	48							42	44	43	46
5	41	43	43	42		50	52	53	42	53	42	43	44	44	50	43				43			41	46	
6												49	46	46	53					58	59	54	43	39	51
7	37	32	34	38	59	44				42	42	42	43	44	46	45						43	39	45	
8	40	40	40	42	51							55	56										40	48	
9				35	40	38	43															44	42	42	
10	40	38	36											43	42	45	43	44	44	45	43	44	42	42	
11	41				41	42	42	41	39	41	42											42	39	47	
12				39	38																		42	40	
13				42	43	47	56	42	53											46		41	36	47	
14	36			38	39	44	49	48	44	46													44	44	
15				39																			39	40	
16	35	33	33	52	37	42	44	45				46										45	41	36	
17	35			40	42	44																42	41	36	
18	37	34	37	40	41	42	43	42	40	41	41	42	42	41	40	44					44	42	41	38	
19	35	35	35	36																		41	38	41	
20	34			37	40	48	47	44	41	43	43	44	45		47			44	41	44	45	40	42	37	
21	38	38	38	41	44	47	47															41	42	44	
22	33	36	35		48				44	43	45	43	45	42	44						44	42	45	36	
23	36	35	39	43	44	46	47	45	43	45	46			46	41	44	44	47			44	41	42	43	
24	39	34	36	41	38	41	45	45	41	43	44	45	50					52	47	47	49	43	44	40	
25	41	38																				44	43	44	
26							46	43	44	43	45			46	46			44	45	43	44	42	42	40	
27	37	38	37	43	44	49	50	48	47	46	48							46	44	42	43	43	42	44	
28				43	45	50	50	48	50	44	45							54	55		58	52	44	43	
29	38	40	43	45	43	46	49	44	44	44	44	56	54	60				48	47	46	45	44	42	37	
30	43	41	41	46	45	48	50	54	58			56									48	55	55	42	49
AVG	38	37	38	42	45	46	48	48	46	46	45	49	48	49	47	49	50	45	48	50	45	42	42	39	
MAX	43	43	43	52	59	50	52	56	58	53	49	56	56	60	54	55	57	48	58	59	54	44	45	44	
MIN	33	32	33	36	37	41	42	41	39	41	41	42	42	41	40	43	44	41	41	41	40	38	39	35	

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

Percent of time operational: 98 M - missing data  
 Monthly Average: 45 C - Calibration  
 Monthly Maximum: 60  
 Median: 43.1  
 Monthly Minimum: 32  
 \*\*\* No Exceedances of Guideline \*\*\*

SOUND METER CALIBRATIONS

DATE	TIME	STANDARD	RESPONSE	ERROR
JUN 3, 2016	8	94.0	93.6	-.4

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

NOTE: Missing data represented by M; no clear prevailing direction represented by SVL; calm winds represented by CALM  
WS UPTIME 98 % WD UPTIME 98 %

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  
JUN 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	1		5	5	6	4	3	5	6	4	2	3	4	2	1	3	5	7	1	3	5	7	8	5	57	8
6- 11	31	10	9	4	13	9	32	31	16	19	27	41	64	35	9	11	36	1	11	36	1	11	36	1	361	51
12- 19	14	7	4	1	6	17	16	6	22	9	10	25	59	25	11	8	24	3	11	8	24	3	11	8	240	34
20- 28	0	0	0	1	1	1	0	0	2	2	1	14	24	1	2	50	7									37
TOTAL	46	22	18	12	24	30	53	43	44	32	41	83	151	63	22	24	708									100
PERCENT	6	3	3	2	3	4	7	6	6	5	6	12	21	9	3	3										
AVERAGE	11	10	8	7	10	12	10	9	12	11	10	13	14	11	12	12										

PRECIPITATION [mm]  
Lafarge Canada Inc.  
Stoney Trail 1  
STATION 620  
JUN 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	
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	
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	
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	
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	
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	
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	
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	
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	
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	.2	0	.5	0	.8	2.4	4.0
11	0	0	0	0	0	0	0	0	0	0	0	0	.2	0	0	0	0	0	0	0	0	0	0	0	2.4	4.0
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	.3
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	.4	.4	.4	0	0	0	0	.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.6
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	.2	.8	0	0	0	0	0	0	0	1.1
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	12.2	21.4	1.8	1.1	.2	.2	.5	1.5	2.3	0	0	0	41.2
25	0	0	0	0	.9	2.6	1.0	0	0	0	0	0	0	4.5	0	.8	0	0	0	0	0	.4	0	.4	11.1	
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	1.3	0	0	0	.2	0	0	0	0	0	0	0	1.6
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	M	M	M	M	M	M	M	M	M	M	M	M	0
TOTL	0	.5	.4	.5	.9	2.6	1.0	.2	.4	0	0	.3	0	12.3	27.4	2.0	2.7	.5	.4	.5	2.0	2.7	.8	2.8	2.8	
MAX	0	.4	.4	.4	.9	2.6	1.0	0	.4	0	0	.2	0	12.2	21.4	1.8	1.1	.2	.2	.5	1.5	2.3	.8	2.4	2.4	

Percent of time operational: 98 M - missing data  
Monthly Total: 61 Maximum in an hour: 21.4  
Year to Date: 137



TRAILER TEMPERATURE  
Lafarge Canada Inc.  
Stoney Trail 1  
STATION 620  
JUN 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	10	9	8	7	7	8	11	14	17	16	17	17	18	19	20	22	24	24	21	20	17	14	12	12	15
2	11	11	10	10	10	10	11	15	17	18	19	21	22	23	23	21	21	22	22	21	19	16	14	12	17
3	10	9	8	8	7	8	12	15	18	20	22	24	24	24	25	26	27	27	26	25	22	19	17	16	18
4	15	14	13	13	13	14	16	19	22	24	26	27	28	29	29	30	28	28	28	27	24	20	17	15	22
5	13	13	12	12	12	13	15	18	21	23	24	25	26	27	28	28	29	29	28	26	23	21	18	17	21
6	16	15	15	14	14	14	15	18	20	23	26	28	29	30	31	32	32	33	31	30	27	24	22	21	23
7	20	19	19	18	17	17	19	22	24	27	29	30	31	31	32	32	32	32	31	28	25	22	19	17	25
8	16	15	15	15	14	15	17	18	19	21	22	25	27	26	27	27	27	26	25	23	22	20	18	17	21
9	16	15	15	15	14	14	16	18	20	21	23	23	24	24	24	25	25	24	23	22	19	16	14	13	19
10	12	11	11	11	10	11	11	11	12	12	12	13	13	14	14	15	15	14	13	12	12	11	11	11	12
11	11	12	12	12	11	11	12	14	16	19	19	17	17	18	19	20	19	19	18	16	14	12	10	9	15
12	8	8	7	7	6	7	10	13	15	17	18	19	20	20	21	21	21	21	21	20	17	15	13	11	15
13	10	10	10	9	9	10	12	16	18	20	21	22	21	22	23	23	24	23	21	19	16	14	13	11	17
14	11	11	10	10	10	9	9	11	13	13	14	15	16	17	18	19	19	17	16	15	13	10	9	7	13
15	7	6	6	5	4	5	8	10	12	13	14	15	16	17	18	19	19	19	19	18	15	12	10	9	12
16	8	7	6	6	6	6	7	8	10	13	15	17	19	19	18	17	17	17	17	16	15	12	11	9	12
17	7	7	7	7	7	8	10	13	15	17	19	20	21	21	22	23	23	23	22	21	18	15	12	10	15
18	8	8	7	7	6	8	12	16	19	20	21	23	23	21	21	21	20	19	18	18	16	13	12	11	15
19	11	10	10	10	9	10	10	12	12	14	17	19	20	22	23	24	23	25	23	21	19	16	14	12	16
20	11	11	11	11	10	11	14	17	20	22	24	25	25	26	26	26	27	27	26	25	23	19	17	16	20
21	14	12	10	9	8	9	13	17	20	21	23	24	24	24	22	22	19	21	22	20	17	15	14	13	17
22	13	12	11	11	11	12	15	18	20	22	24	26	27	27	26	27	24	25	26	25	22	19	17	15	20
23	13	13	13	11	10	11	14	17	20	23	24	24	25	25	24	23	24	26	24	23	21	18	16	14	19
24	12	11	11	11	11	11	14	18	20	21	22	22	22	22	16	13	12	11	11	11	11	11	11	11	14
25	11	11	11	11	10	10	10	11	12	14	17	19	21	21	19	21	20	18	17	16	15	14	13	13	15
26	12	12	12	12	12	12	13	13	13	15	16	19	21	22	23	25	26	26	24	23	21	17	15	14	17
27	13	12	11	11	11	11	13	18	21	24	25	25	25	25	26	27	28	27	27	25	23	20	18	17	20
28	16	16	15	15	14	13	16	18	18	19	22	24	25	24	21	20	24	24	24	24	22	18	16	14	19
29	13	13	13	13	12	13	16	20	23	25	26	27	28	28	28	27	25	23	25	25	22	21	19	18	21
30	17	17	16	15	15	16	18	18	19	20	22	M	M	M	M	M	M	M	M	M	M	M	M	M	18
AVG	12	12	11	11	10	11	13	16	18	19	21	22	23	23	23	23	23	23	22	21	19	16	15	13	
MAX	20	19	19	18	17	17	19	22	24	27	29	30	31	31	32	32	32	33	31	30	27	24	22	21	
MIN	7	6	6	5	4	5	7	8	10	12	12	13	13	14	14	13	12	11	11	11	11	10	9	7	

Percent of time operational: 98  
Monthly Average: 17      Monthly Maximum: 33      Monthly Minimum: 4      M - missing data