Lakeland Industry & Community Association
Cold Lake Monitoring Site
Ambient Air Monitoring
Data Report
For
September 2007

Prepared By:

MAXXAM ANALYTICS INC.

Lakeland Industry & Community Assoc.
COLD LAKE
AMBIENT AIR MONITORING STATION

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CALIBRATION PROCEDURE

The following calibration procedure applies to all calibrations conducted at the Lakeland Industry & Community Association Air Monitoring Station.

Calibration gas concentrations are generated using a dynamic mass flow controlled calibrator. EPA Protocol one gases are diluted with zero air generated on site. The Mass Flow Controllers in the calibrator are referenced using an NIST traceable flow meter once per month. All listed flows are reported as corrected to Standard Temperature and Pressure (STP).

Generated zero gas is introduced to the analyzer first. Three concentrations of calibration gas are then generated in order to introduce points at approximately 50-80%, 25-40% & 10-20% of the analyzer's full-scale range. An auto zero and span are then performed to validate the daily zero and span values recorded to the next multi-point calibration.

All indicated concentrations are taken from the ESC data logger used to collect the data for monthly reporting.

Conformance of each calibration to Alberta Environment regulations is outlined in the individual calibration reports. The slope and correlation coefficient are derived from the calculated and indicated analyzer responses. The percent change is calculated using the previous calibration correction factor and the current correction factor before adjustment. The calibration conforms to the procedure outlined in the *Air Monitoring Directive, Appendix A-10, Section 1.6.*

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION
MONTHLY CONTINUOUS DATA SUMMARY
COLD LAKE

Continuous Ambient Monitoring – September 2007

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION COLD LAKE SITE						MAXIMUM VALUES					OPERATIONAL TIME (PERCENT)
						1-HOUR			24-HOUR		
PARAMETER	OBJECTIVES		EXCEEDENCES		MONTHLY AVERAGE	READING	DAY	HOUR	READING	DAY	
	1-HR	24-HR	1-HR	24-HR							
SO_2 (PPB)	172	57	0	0	0.03	2	27	14	0.3	28	100.0
TRS (PPB)	-	-	-	-	0.09	1	VAR	VAR	0.5	20	100.0
NO_2 (PPB)	212	106	0	0	2.08	10	29	21	3.6	22,25	100.0
NO (PPB)	-	-	-	-	0.47	23	18	7	2.1	18	100.0
NOx (PPB)	-	-	-	-	2.59	32	18	7	5.2	22	100.0
O_3 (PPB)	82	-	0	-	17.49	48	15	17	26.4	28	100.0
THC (PPM)	-	-	-	-	2.05	4.4	15	2	2.6	15	100.0
PM 2.5 (UG/M^3)	-	30	-	0	1.99	29.6	18	19	6.3	15	96.1
TEMPERATURE (DEG C)	-	-	-	-	8.87	23.3	16	16	15.3	4	100.0
RELATIVE HUMIDITY (%)	-	-	-	-	74.55	99.1	9	9	91.4	8	100.0
VECTOR WS (KPH)	-	-	-	-	5.41	19.4	12	12	14.1	12	100.0
VECTOR WD (DEGREES)	-	-	-	-	W	-	-	-	-	-	100.0

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION
Passive Ambient Monitoring Network – September 2007

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION PASSIVE NETWORK			
NETWORK MAXIMUM (PPB)			NETWORK AVERAGE (PPB)
PARAMETER	STATION	READING	READING
NO_2	25	4.3	1.5
SO_2	24	1.9	0.5
H_2S	4	0.77	0.18
O_3	14	25.4	17.6

GENERAL MONTHLY SUMMARY – COLD LAKE

Equipment Operation

The following summary outlines the analyzer performance. Any non-conformances, problems or maintenance performed are detailed at the end of each section.

AQM STATION – LICA – COLD LAKE

SO2

- Analyzer make / model TECO 43A

No operational issues during the month. The inlet filter was changed before the monthly calibration was started. Data was corrected using daily zero information. Alberta Environment conducted an audit on September 25th, 2007 with no major findings.

TRS

- Analyzer make / model TECO 43A
  CD NOVA CDN 101 Converter

No operational issues during the month. The inlet filter was changed before the monthly calibration was started. Data was corrected using daily zero information. Alberta Environment conducted an audit on September 25th, 2007 with no major findings.

THC

- Analyzer make / model TECO 51C-LT

No operational issues during the month. The inlet filter was changed before the monthly calibration was started. Data was corrected using daily zero information. It was agreed to with the LICA Program Manager to invalidate all data, after zero correction, which falls below the historical background average of 1.5 ppm. As a result 0 hours of data was invalidated and the uptime was at 100.0%. The Hydrogen cylinder was changed out on September 21st. Alberta Environment conducted an audit on September 25th, 2007 with no major findings.

NOx

- Analyzer make / model TECO 42C

No operational issues during the month. The inlet filter was changed before the monthly calibration was started. Data was corrected using daily zero information. Alberta Environment conducted an audit on September 25th, 2007 with no major findings.

O_3

- Analyzer make / model TECO 49I

No operational issues during the month. The inlet filter was changed before the monthly calibration was started. Data was corrected using daily zero information. Alberta Environment conducted an audit on September 25th, 2007 with no major findings.

PM 2.5

- Analyzer make / model TEOM 1400A

No operational issues during the month. There were 25 hours of instability during the month; the data was subsequently invalidated. There were three hours of data missing on September 6th. No reason found for the missing data. Alberta Environment conducted an audit on September 25th, 2007 with no major findings.

Wind Speed & Direction

- System make / model MET ONE 50.5

No operational issues observed during the month. The wind system is reported as vector wind speed and vector wind direction.

Relative Humidity

- System make / model Rotronic Hygroclip-S3

No operational issues observed during the month.

Temperature

- System make / model Rotronic Hygroclip-S3

No operational issues observed during the month.

Datalogger

- System make / model ESC 8832
- Software make / version ESC v 5.51a

The ESC 8832 is connected to a modem with DSL for continuous connection with the base computer.

Air Quality Index (AQI)
The AQI data was adjusted to reflect regular monthly calibrations, maintenance, and downtime and daily calibrations.

Passive Network

- Site #12 – Site was vandalized. Post was pulled out of ground. Photos inserted at end of report. The SO_2 cartridge was damaged and analysis unable to be conducted.
- Site #17 – Station was leaning, site post was straightened.
- Site # 8 – Ozone sampler damaged.

LICA - COLD LAKE SITE

MONTHLY SUMMARIES, GRAPHS & WIND ROSES

AIR QUALITY INDEX

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - *COLD LAKE*

SEPTEMBER 2007

AIR QUALITY INDEX (AQI)

HOUR START	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	DAILY
HOUR END	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	MAX.
DAY																									
1	**NA**	12	11	10	9	7	7	8	8	7	8	10	11	14	**NA**	14	12	12	11	6	3	4	3	2	14
	-	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	-	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_
2	1	1	1	1	**NA**	1	5	14	6	9	13	17	16	**NA**	17	17	19	18	16	14	8	5	3	1	19
	O3_	PM2	PM2	O3_	-	PM2	PM2	PM2	O3_	O3_	O3_	O3_	O3_	-	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_
3	1	3	2	1	3	3	5	7	10	7	9	10	**NA**	15	**NA**	20	19	16	10	3	1	1	3	4	20
	PM2	PM2	PM2	PM2	PM2	PM2	PM2	PM2	PM2	O3_	O3_	O3_	-	O3_	-	O3_	O3_	O3_	O3_	O3_	PM2	PM2	PM2	PM2	O3_
4	2	2	5	3	2	3	7	7	8	9	10	**NA**	13	14	17	21	19	18	17	16	15	14	12	12	21
	PM2	PM2	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	-	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_
5	10	9	8	6	7	8	7	8	10	11	**NA**	**NA**	14	15	15	15	15	15	13	8	4	4	3	5	15
	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	-	-	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	PM2	O3_	O3_	O3_	O3_
6	4	2	2	2	1	1	6	7	8	**NA**	**NA**	**NA**	**NA**	12	12	13	11	12	10	8	6	7	8	8	13
	O3_	O3_	O3_	O3_	PM2	O3_	PM2	O3_	O3_	-	-	-	-	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_
7	8	6	7	8	7	5	4	4	**NA**	9	12	13	13	13	13	14	14	11	6	5	4	5	2	3	14
	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	-	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_
8	2	2	2	4	4	3	3	**NA**	5	6	7	8	9	9	9	11	12	11	8	**NA**	1	2	**NA**	**NA**	19
	O3_	O3_	O3_	O3_	O3_	O3_	O3_	-	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	-	O3_	PM2	-	-	O3_
9	**NA**	**NA**	**NA**	**NA**	2	1	**NA**	3	5	8	**NA**	**NA**	14	14	16	16	15	14	13	12	14	13	12	12	16
	-	-	-	-	PM2	O3_	-	PM2	O3_	PM2	-	-	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_
10	11	10	9	8	8	**NA**	6	8	10	11	12	13	14	15	15	14	14	12	9	7	3	7	10	10	15
	O3_	O3_	O3_	O3_	O3_	-	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_
11	10	9	9	8	**NA**	8	7	8	8	10	11	13	15	16	15	13	11	12	12	11	10	10	**NA**	**NA**	16
	O3_	O3_	O3_	O3_	-	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	-	-	O3_
12	**NA**	**NA**	8	**NA**	9	9	9	9	9	9	9	10	10	10	10	11	11	11	10	10	10	11	11	11	6
	-	-	O3_	-	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_
13	9	10	**NA**	12	11	9	8	8	10	12	13	13	14	15	15	16	17	16	9	5	9	10	7	4	17
	O3_	O3_	-	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_
14	4	**NA**	2	1	1	1	7	6	10	12	13	14	16	19	21	20	20	18	11	7	5	4	2	2	21
	O3_	-	O3_	O3_	O3_	PM2	PM2	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_
15	**NA**	3	4	4	3	4	7	11	8	12	14	17	19	22	23	24	24	23	14	10	6	5	6	**NA**	24
	-	PM2	PM2	PM2	PM2	PM2	PM2	PM2	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	PM2	-	O3_
16	5	4	3	4	4	4	9	8	14	16	19	21	22	22	23	23	23	18	11	5	3	6	**NA**	8	23
	PM2	PM2	PM2	PM2	PM2	PM2	PM2	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	PM2	PM2	-	O3_	O3_
17	5	10	15	13	9	8	7	6	7	7	10	10	12	**NA**	**NA**	16	16	15	8	4	3	**NA**	1	1	16
	O3_	PM2	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	-	-	O3_	O3_	O3_	O3_	O3_	O3_	-	O3_	O3_	O3_
18	1	1	3	2	1	2	5	8	7	**NA**	**NA**	9	9	9	10	11	10	10	25	9	**NA**	8	7	7	25
	O3_	O3_	PM2	O3_	O3_	PM2	PM2	PM2	O3_	-	-	O3_	O3_	O3_	O3_	O3_	O3_	O3_	PM2	O3_	-	O3_	O3_	O3_	PM2
19	6	4	6	5	4	2	3	5	7	9	11	**NA**	13	14	15	15	16	15	9	**NA**	6	10	11	10	16
	O3_	O3_	O3_	O3_	O3_	O3_	PM2	O3_	O3_	O3_	O3_	-	O3_	O3_	O3_	O3_	O3_	O3_	O3_	-	O3_	O3_	O3_	O3_	O3_
20	10	9	8	8	7	7	7	7	8	9	10	11	12	13	14	15	15	15	**NA**	7	10	11	10	9	15
	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	-	O3_	O3_	O3_	O3_	O3_	O3_
21	9	9	9	9	9	10	9	8	8	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	10	NA
	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	-	-	-	-	-	-	-	-	-	-	-	-	-	-	O3_	-
22	7	4	2	**NA**	1	1	2	2	5	7	6	6	6	7	8	8	**NA**	14	7	4	4	1	1	2	23
	O3_	O3_	O3_	-	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	-	O3_	O3_	O3_	PM2	PM2	PM2	O3_	O3_
23	2	1	1	3	3	4	4	4	5	7	9	9	9	9	9	**NA**	10	11	7	5	4	3	3	3	11
	O3_	O3_	PM2	PM2	PM2	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	-	O3_	O3_	O3_	O3_	O3_	PM2	PM2	PM2	O3_
24	2	2	2	2	2	**NA**	3	4	7	10	12	13	14	15	**NA**	**NA**	**NA**	15	14	14	13	13	13	13	15
	PM2	PM2	PM2	PM2	PM2	-	PM2	PM2	O3_	O3_	O3_	O3_	O3_	O3_	-	-	-	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_
25	12	12	11	10	7	6	6	6	9	**NA**	**NA**	**NA**	**NA**	**NA**	15	14	11	9	9	7	5	4	2	4	15
	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	-	-	-	-	-	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_
26	3	1	1	**NA**	1	3	6	9	10	13	14	16	**NA**	17	16	16	15	13	12	12	10	11	8	8	17
	O3_	O3_	O3_	-	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	-	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_
27	7	3	6	6	2	1	1	5	8	10	12	**NA**	21	20	20	21	20	20	19	19	18	18	17	17	21
	O3_	O3_	O3_	O3_	O3_	O3_	PM2	PM2	O3_	O3_	O3_	-	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_
28	17	16	16	15	14	13	13	12	12	13	**NA**	13	13	14	15	14	15	15	14	13	13	8	12	13	17
	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	-	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_
29	13	13	11	10	9	7	7	7	7	**NA**	8	8	8	9	10	10	11	10	8	4	2	2	2	1	13
	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	-	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	PM2	O3_	O3_	O3_	O3_
30	2	3	2	1	5	8	9	9	**NA**	10	12	15	15	16	16	15	15	13	12	13	13	13	12	12	16
	O3_	PM2	PM2	O3_	O3_	O3_	O3_	O3_	-	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_
PEAK	17	16	16	15	14	13	13	14	14	16	19	21	22	22	23	24	24	23	25	19	18	18	17	17	25
	O3_	O3_	O3_	O3_	O3_	O3_	O3_	PM2	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	O3_	PM2	O3_	O3_	O3_	O3_	O3_	PM2

STATUS FLAG CODES

NA	- NOT APPLICABLE

AQI SUMMARY

AQI CLASS	O3	PM 2.5	NO2	SO2	FREQ
VERY POOR (101 - 255)	0 hrs 0.00%	0 hrs 0.00%	0 hrs 0.00%	0 hrs 0.00%	0 hrs 0.00%
POOR (51 - 100)	0 hrs 0.00%	0 hrs 0.00%	0 hrs 0.00%	0 hrs 0.00%	0 hrs 0.00%
FAIR (26 - 50)	0 hrs 0.00%	0 hrs 0.00%	0 hrs 0.00%	0 hrs 0.00%	0 hrs 0.00%
GOOD (1 - 25)	568 hrs 78.89%	74 hrs 10.28%	0 hrs 0.00%	0 hrs 0.00%	642 hrs 89.17%
OVERALL	568 hrs 78.89%	74 hrs 10.28%	0 hrs 0.00%	0 hrs 0.00%	642 hrs 89.17%
UNAVAILABLE	-	-	-	-	78 hrs 10.83%

MOUNTAIN STANDARD TIME

Maxxam Analytics Inc

SO_2

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - *COLD LAKE*

SEPTEMBER 2007

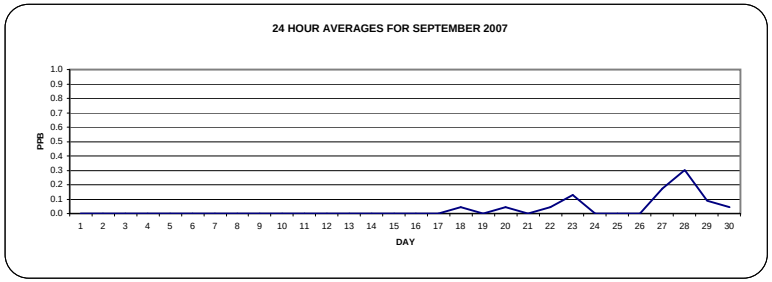
SULPHUR DIOXIDE (SO_2) hourly averages in ppb

HOUR START	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	DAILY	24-HOUR	
HOUR END	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	MAX.	AVG.	RDGS.
DAY																											
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**IZS**	0	0	0	0	0	0	0	0	0	0	0.0	24
2	0	0	0	0	0	0	0	0	0	0	0	0	0	**IZS**	0	0	0	0	0	0	0	0	0	0	0	0.0	24
3	0	0	0	0	0	0	0	0	0	0	0	0	**IZS**	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24
4	0	0	0	0	0	0	0	0	0	0	0	**IZS**	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24
5	0	0	0	0	0	0	0	0	0	0	**IZS**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24
6	0	0	0	0	0	0	0	0	0	**IZS**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24
7	0	0	0	0	0	0	0	0	**IZS**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24
8	0	0	0	0	0	0	0	**IZS**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24
9	0	0	0	0	0	0	**IZS**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24
10	0	0	0	0	0	**IZS**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24
11	0	0	0	0	**IZS**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24
12	0	0	0	**IZS**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24
13	0	0	**IZS**	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
14	0	**IZS**	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
15	**IZS**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**IZS**	0	0.0	24
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**IZS**	0	0	0.0	24
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**IZS**	0	0	0	0.0	24
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	**IZS**	0	0	0	1	0.0	24
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**IZS**	0	0	0	0	0	0.0	24
20	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	**IZS**	0	0	0	0	0	1	0.0	24
21	0	0	0	0	0	0	0	0	0	**C**	**C**	**IZS**	0	0	0	0	0	**IZS**	0	0	0	0	0	0	0	0.0	24
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	**IZS**	0	0	0	0	0	0	0	1	0.0	24
23	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	**IZS**	0	1	0	0	0	0	0	0	1	0.1	24
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**IZS**	0	0	0	0	0	0	0	0	0	0	0.0	24
25	0	0	0	0	0	0	0	0	0	**C**	**C**	**C**	**C**	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24
26	0	0	0	0	0	0	0	0	0	0	0	0	**IZS**	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24
27	0	0	0	0	0	0	0	0	0	0	0	**IZS**	1	**2**	1	0	0	0	0	0	0	0	0	0	2	0.2	24
28	0	0	0	0	0	0	0	0	0	0	**IZS**	0	0	0	0	1	1	1	1	1	1	0	0	1	1	**0.3**	24
29	1	0	0	0	0	1	0	0	0	**IZS**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.1	24
30	0	0	0	0	0	0	0	1	**IZS**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.0	24
HOURLY MAX	1	0	0	0	0	1	0	1	1	0	1	0	1	2	1	1	1	1	1	1	1	0	0	1			
HOURLY AVG	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0			

STATUS FLAG CODES

S	- OUT OF SERVICE	IZS	- IZS - DAILY ZERO/SPAN CHECK
N	- INVALID DATA	M	- MAINTENANCE
D	- INSTRUMENT DRIFT	P	- POWER FAILURE
C	- CALIBRATION	NA	- NOT APPLICABLE

OBJECTIVE LIMIT: **ALBERTA ENVIRONMENT:** 1-HR 172 PPB 24-HR 57 PPB



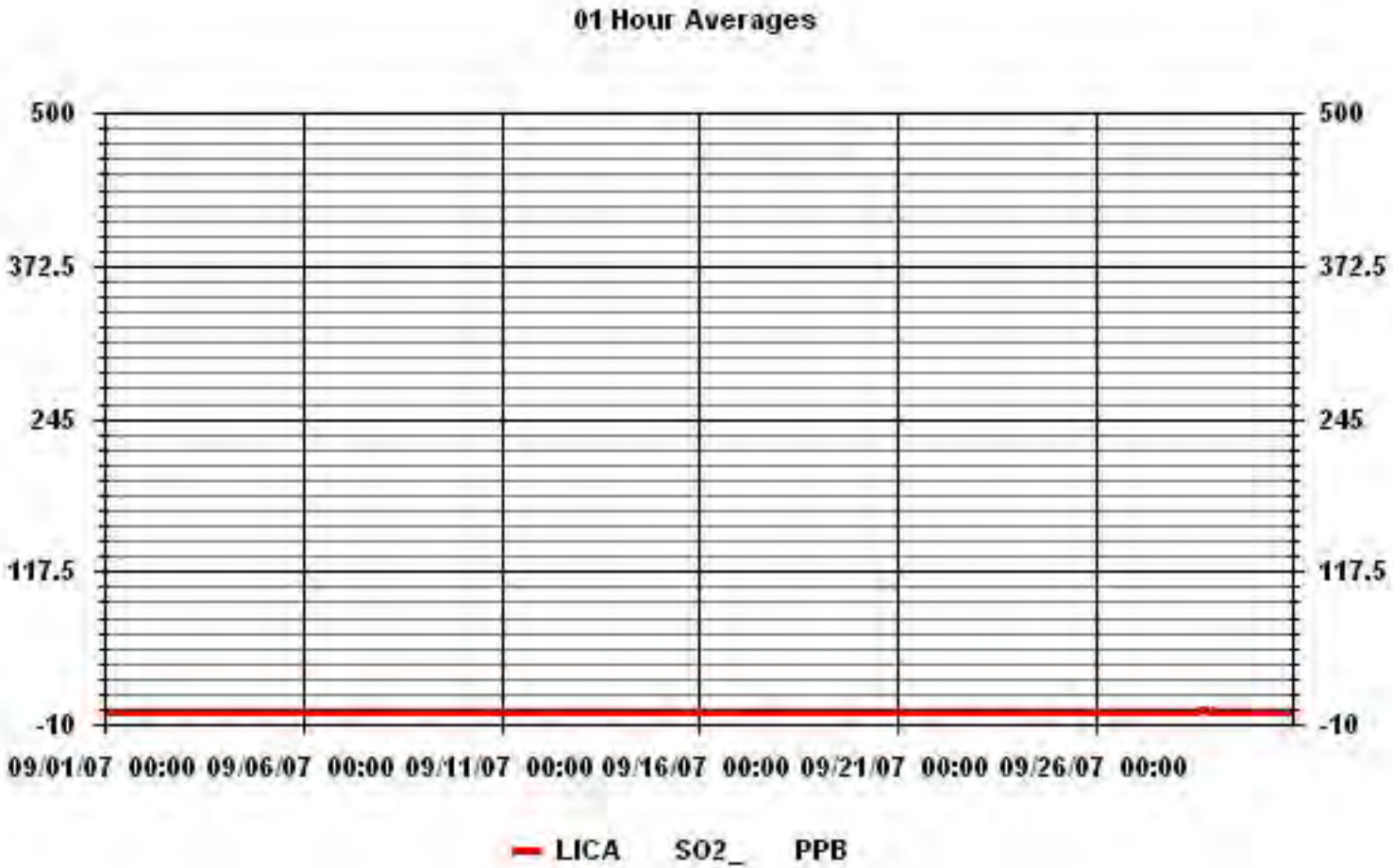
MONTHLY SUMMARY

NUMBER OF 1-HR EXCEEDENCES:	0					
NUMBER OF 24-HR EXCEEDENCES:	0					
NUMBER OF NON-ZERO READINGS:	19					
MAXIMUM 1-HR AVERAGE:	2	PPB	@ HOUR(S)	14	ON DAY(S)	27
MAXIMUM 24-HR AVERAGE:	0.3	PPB			ON DAY(S)	28

IZS CALIBRATION TIME:	31	HRS	OPERATIONAL TIME:	720	HRS
MONTHLY CALIBRATION TIME:	6	HRS	AMD OPERATION UPTIME:	100.0	%
STANDARD DEVIATION:	0.18		MONTHLY AVERAGE:	0.03	PPB

Maxxam Analytics Inc

MOUNTAIN STANDARD TIME


01 Hour Averages
500
372.5
245
117.5
-10
09/01/07 00:00
09/06/07 00:00
09/11/07 00:00
09/16/07 00:00
09/21/07 00:00
09/26/07 00:00
LICA SO2_ PPB

LICA
SO2_ / WD Joint Frequency Distribution (Percent)

September 2007

Distribution By % Of Samples

Logger Id : 01
Site Name : LICA
Parameter : SO2_
Units : PPB

Wind Parameter : WD
Instrument Height : 10 Meters

Direction

	Limit	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Freq
<	20	2.04	1.90	1.90	2.92	4.68	6.14	8.78	2.63	4.09	6.73	12.00	15.37	9.95	9.80	7.90	3.07	100.00
<	60	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
<	110	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
<	170	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
<	340	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
>=	340	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	Totals	2.04	1.90	1.90	2.92	4.68	6.14	8.78	2.63	4.09	6.73	12.00	15.37	9.95	9.80	7.90	3.07	

Calm : .00 %

Total # Operational Hours : 683

Distribution By Samples

Direction

	Limit	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Freq
<	20	14	13	13	20	32	42	60	18	28	46	82	105	68	67	54	21	683
<	60																	
<	110																	
<	170																	
<	340																	
>=	340																	
	Totals	14	13	13	20	32	42	60	18	28	46	82	105	68	67	54	21	

Calm : .00 %

Total # Operational Hours : 683

Logger : 01 Parameter : SO2_

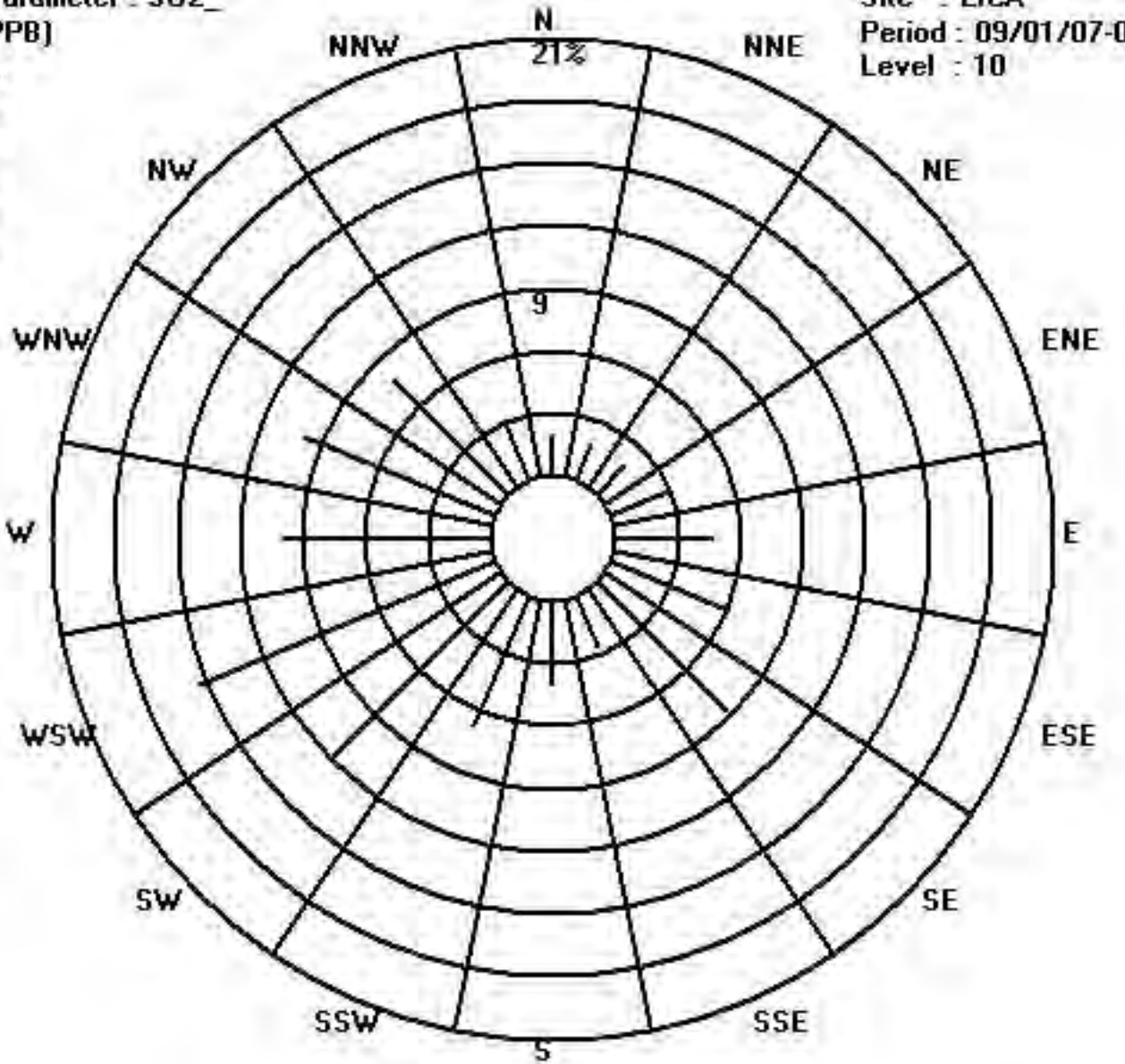
Site : LICA

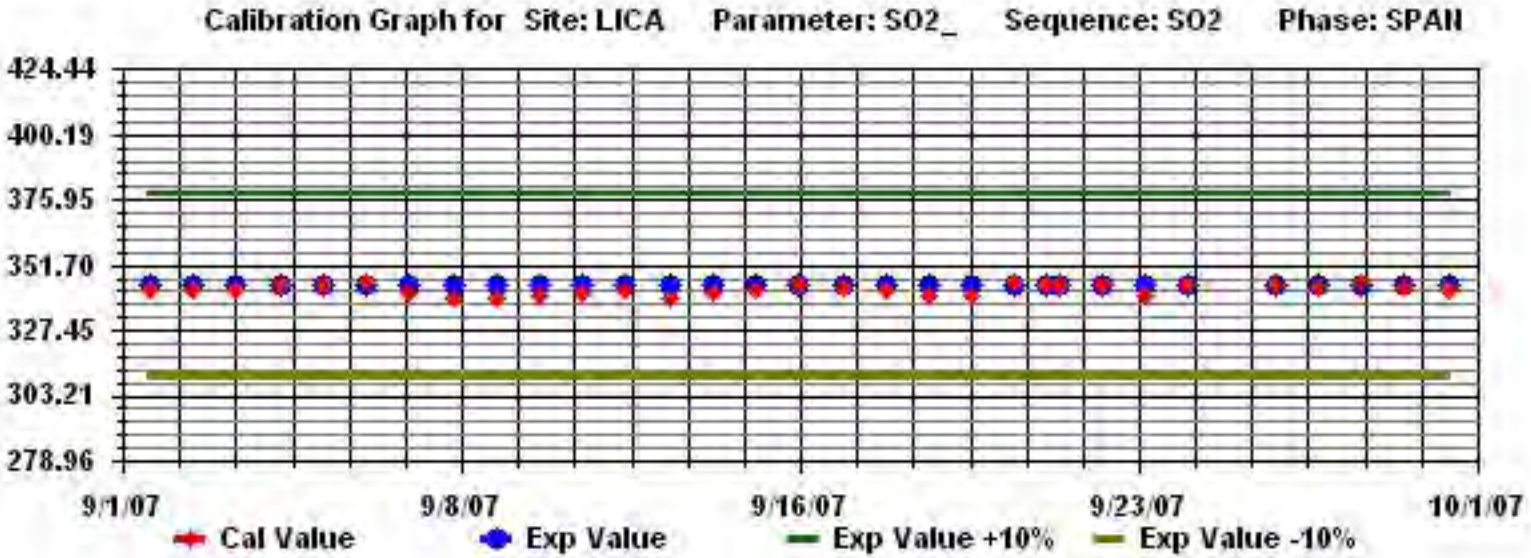
Period : 09/01/07-09/30/07

Level : 10

Class Limits (PPB)

>=	340
<	340
<	170
<	110
<	60
<	20




Calibration Graph for Site: LICA Parameter: SO2_ Sequence: SO2 Phase: SPAN
424.44
400.19
375.95
351.70
327.45
303.21
278.96
9/1/07
9/8/07
9/16/07
9/23/07
10/1/07
Cal Value
Exp Value
Exp Value +10%
Exp Value -10%

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION -*COLD LAKE*

SEPTEMBER 2007

SULPHUR DIOXIDE MAX instantaneous maximum in ppb

HOUR START	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	DAILY	24-HOUR	
HOUR END	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	MAX.	AVG.	RDGS.
DAY																											
1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	**IZS**	0	0	0	0	0	0	0	0	0	1	0.0	24
2	0	0	0	0	0	0	0	0	0	0	0	0	0	**IZS**	0	0	0	0	0	0	0	0	0	0	0	0.0	24
3	0	0	0	0	0	0	0	0	0	0	1	0	**IZS**	0	0	0	0	0	0	0	0	0	0	0	1	0.0	24
4	0	0	0	0	0	0	0	0	0	0	0	**IZS**	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24
5	0	0	0	0	0	0	0	0	0	0	**IZS**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24
6	0	0	0	0	0	0	0	0	0	**IZS**	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0.0	24
7	0	0	0	0	0	0	0	0	**IZS**	0	1	1	1	1	1	1	1	0	0	0	0	0	0	0	1	0.3	24
8	0	0	0	0	0	0	0	**IZS**	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	1	0.1	24
9	0	0	0	0	0	0	**IZS**	0	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	1	0.2	24
10	0	0	0	0	0	**IZS**	0	2	1	1	1	0	0	1	1	0	0	0	0	0	0	0	0	0	2	0.3	24
11	0	0	0	0	**IZS**	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	1	1	1	0.3	24
12	0	0	0	**IZS**	0	0	0	0	0	0	0	1	1	2	1	0	0	0	0	0	0	0	0	0	2	0.2	24
13	0	0	**IZS**	0	0	0	0	0	1	0	0	0	0	0	0	0	1	1	1	0	0	1	1	0	1	0.3	24
14	1	**IZS**	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	1	0.7	24
15	**IZS**	0	0	1	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	1	0	0	0	**IZS**	1	0.5	24
16	0	0	0	0	1	0	0	1	1	0	0	1	1	0	0	0	1	1	0	0	0	0	**IZS**	0	1	0.3	24
17	0	0	1	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	**IZS**	0	0	1	0.1	24
18	0	0	0	0	2	0	1	0	0	0	0	0	0	0	0	0	0	0	**6**	0	**IZS**	0	1	1	6	0.5	24
19	0	0	0	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	**IZS**	0	1	0	0	1	0.2	24
20	1	1	0	1	1	0	0	1	0	1	1	1	1	1	1	1	1	0	**IZS**	0	0	0	1	0	1	0.6	24
21	0	0	1	0	0	0	1	0	0	**C**	**C**	**IZS**	1	0	1	1	0	**IZS**	1	1	0	0	0	1	1	0.4	24
22	0	1	0	0	0	0	0	0	0	1	1	1	1	1	1	1	**IZS**	0	0	1	0	0	0	0	1	0.4	24
23	1	1	0	0	1	1	1	1	2	1	1	1	1	1	1	**IZS**	1	1	1	1	1	1	1	1	2	1.0	24
24	0	0	1	1	0	0	1	1	1	1	0	1	1	0	**IZS**	1	1	1	1	1	1	1	1	1	1	0.7	24
25	1	1	1	1	1	0	1	1	1	**C**	**C**	**C**	**C**	1	1	1	1	1	1	0	0	0	0	0	1	0.7	24
26	0	1	0	1	1	0	1	1	1	0	1	0	**IZS**	0	0	0	1	0	1	0	0	0	0	0	1	0.4	24
27	0	1	0	0	1	0	1	1	1	1	1	**IZS**	3	3	2	2	1	1	1	1	1	0	1	0	3	1.0	24
28	1	0	0	0	1	1	0	1	1	0	**IZS**	1	1	1	1	2	2	2	2	2	2	1	1	2	2	1.1	24
29	2	1	1	1	1	2	1	1	1	**IZS**	1	1	1	0	1	1	0	1	0	0	1	1	0	1	2	0.9	24
30	1	1	0	1	0	0	1	1	**IZS**	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	24
HOURLY MAX	2	1	1	1	2	2	1	2	2	1	1	1	3	3	2	2	2	2	6	2	2	1	1	2			
HOURLY AVG	0.3	0.3	0.2	0.3	0.4	0.2	0.3	0.5	0.4	0.3	0.5	0.5	0.7	0.6	0.6	0.5	0.5	0.4	0.7	0.3	0.2	0.2	0.3	0.3			

STATUS FLAG CODES

S	- OUT OF SERVICE	IZS	- IZS - DAILY ZERO/SPAN CHECK
N	- INVALID DATA	M	- MAINTENANCE
D	- INSTRUMENT DRIFT	P	- POWER FAILURE
C	- CALIBRATION	NA	- NOT APPLICABLE

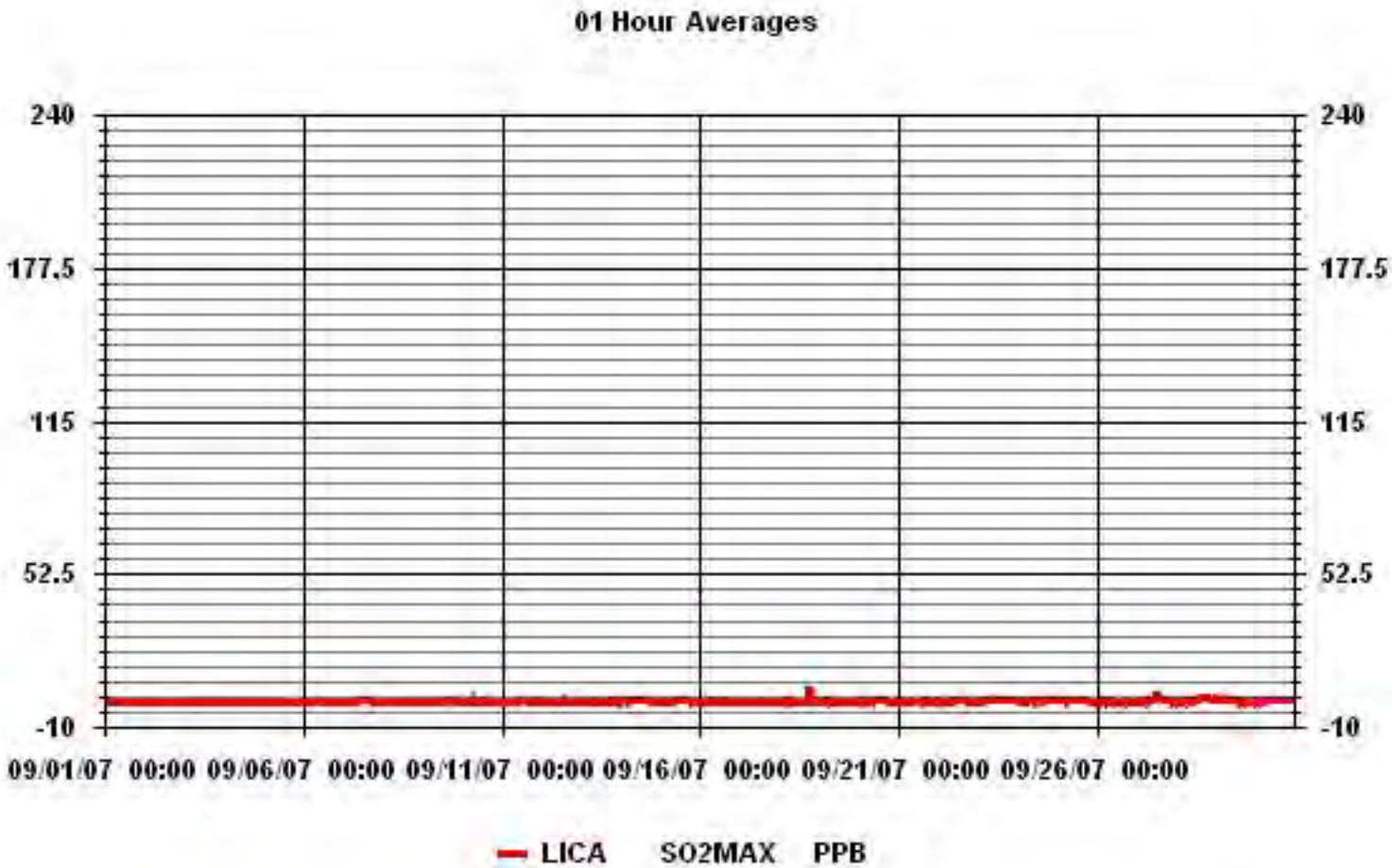
MONTHLY SUMMARY

NUMBER OF NON-ZERO READINGS:	250					
MAXIMUM INSTANTANEOUS VALUE:	6	PPB	@ HOUR(S)	19	ON DAY(S)	18

IZS CALIBRATION TIME:	31	HRS	OPERATIONAL TIME:	720	HRS
MONTHLY CALIBRATION TIME:	6	HRS			
STANDARD DEVIATION:	0.59				

MOUNTAIN STANDARD TIME

Maxxam Analytics Inc


01 Hour Averages
240
177.5
115
52.5
-10
09/01/07 00:00
09/06/07 00:00
09/11/07 00:00
09/16/07 00:00
09/21/07 00:00
09/26/07 00:00
LICA SO2MAX PPB

TRS

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - *COLD LAKE*

SEPTEMBER 2007

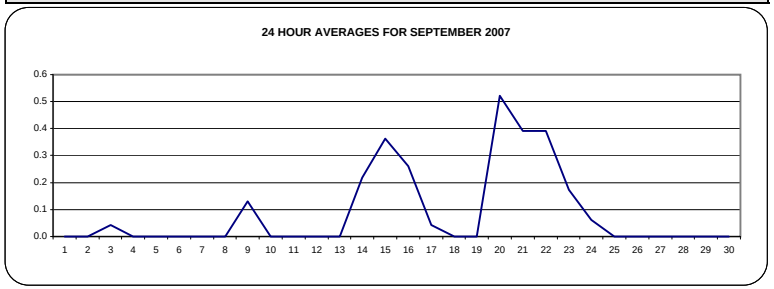
TOTAL REDUCED SULPHUR (TRS) hourly averages in ppb

HOUR START	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	DAILY	24-HOUR	
HOUR END	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	MAX.	AVG.	RDGS.
DAY																											
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**IZS**	0	0	0	0	0	0	0	0	0	0	0.0	24
2	0	0	0	0	0	0	0	0	0	0	0	0	0	**IZS**	0	0	0	0	0	0	0	0	0	0	0	0.0	24
3	0	0	0	0	0	0	0	0	**1**	0	0	0	**IZS**	0	0	0	0	0	0	0	0	0	0	0	1	0.0	24
4	0	0	0	0	0	0	0	0	0	0	0	**IZS**	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24
5	0	0	0	0	0	0	0	0	0	0	**IZS**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24
6	0	0	0	0	0	0	0	0	0	**IZS**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24
7	0	0	0	0	0	0	0	0	**IZS**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24
8	0	0	0	0	0	0	0	**IZS**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24
9	0	0	0	0	0	0	**IZS**	**1**	**1**	**1**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.1	24
10	0	0	0	0	0	**IZS**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24
11	0	0	0	0	**IZS**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24
12	0	0	0	**IZS**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24
13	0	0	**IZS**	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
14	0	**IZS**	0	0	0	0	0	0	0	0	0	0	0	**1**	0	0	0	0	**1**	**1**	0	**1**	0	**1**	1	0.2	24
15	**IZS**	**1**	0	0	0	0	0	0	**1**	0	**1**	0	0	0	0	**1**	**1**	0	0	0	**1**	**1**	**1**	**IZS**	1	0.4	24
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**1**	**1**	**1**	**1**	**1**	**IZS**	**1**	1	0.3	24
17	**1**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**IZS**	0	0	1	0.0	24
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**IZS**	0	0	0	0	0.0	24
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**IZS**	0	0	0	0	0	0.0	24
20	0	0	0	0	0	0	**1**	0	0	0	**1**	0	**1**	**1**	**1**	**1**	**1**	**1**	**IZS**	**1**	**1**	**1**	**1**	0	1	**0.5**	24
21	0	0	0	0	0	0	0	0	0	0	**1**	0	**1**	**1**	**1**	**1**	**1**	**IZS**	**1**	0	**1**	**1**	0	0	1	0.4	24
22	0	0	0	0	0	0	0	0	0	**1**	0	0	**1**	**1**	**1**	**1**	**IZS**	**1**	**1**	**1**	**1**	0	0	0	1	0.4	24
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**IZS**	0	0	**1**	**1**	0	0	**1**	**1**	1	0.2	24
24	**1**	0	0	0	0	0	0	**C**	**C**	**C**	**C**	**C**	**C**	**C**	**IZS**	0	0	0	0	0	0	0	0	0	1	0.1	24
25	0	0	0	0	0	0	0	0	0	**C**	**C**	**C**	**C**	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24
26	0	0	0	0	0	0	0	0	0	0	0	0	**IZS**	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24
27	0	0	0	0	0	0	0	0	0	0	0	**IZS**	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24
28	0	0	0	0	0	0	0	0	0	0	**IZS**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24
29	0	0	0	0	0	0	0	0	0	**IZS**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24
30	0	0	0	0	0	0	0	0	**IZS**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24
HOURLY MAX	1	1	0	0	0	0	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1			
HOURLY AVG	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.1			

STATUS FLAG CODES

S	- OUT OF SERVICE	IZS	- IZS - DAILY ZERO/SPAN CHECK
N	- INVALID DATA	M	- MAINTENANCE
D	- INSTRUMENT DRIFT	P	- POWER FAILURE
C	- CALIBRATION	NA	- NOT APPLICABLE

OBJECTIVE LIMIT: **ALBERTA ENVIRONMENT:** 1-HR 172 PPB 24-HR 57 PPB



MONTHLY SUMMARY

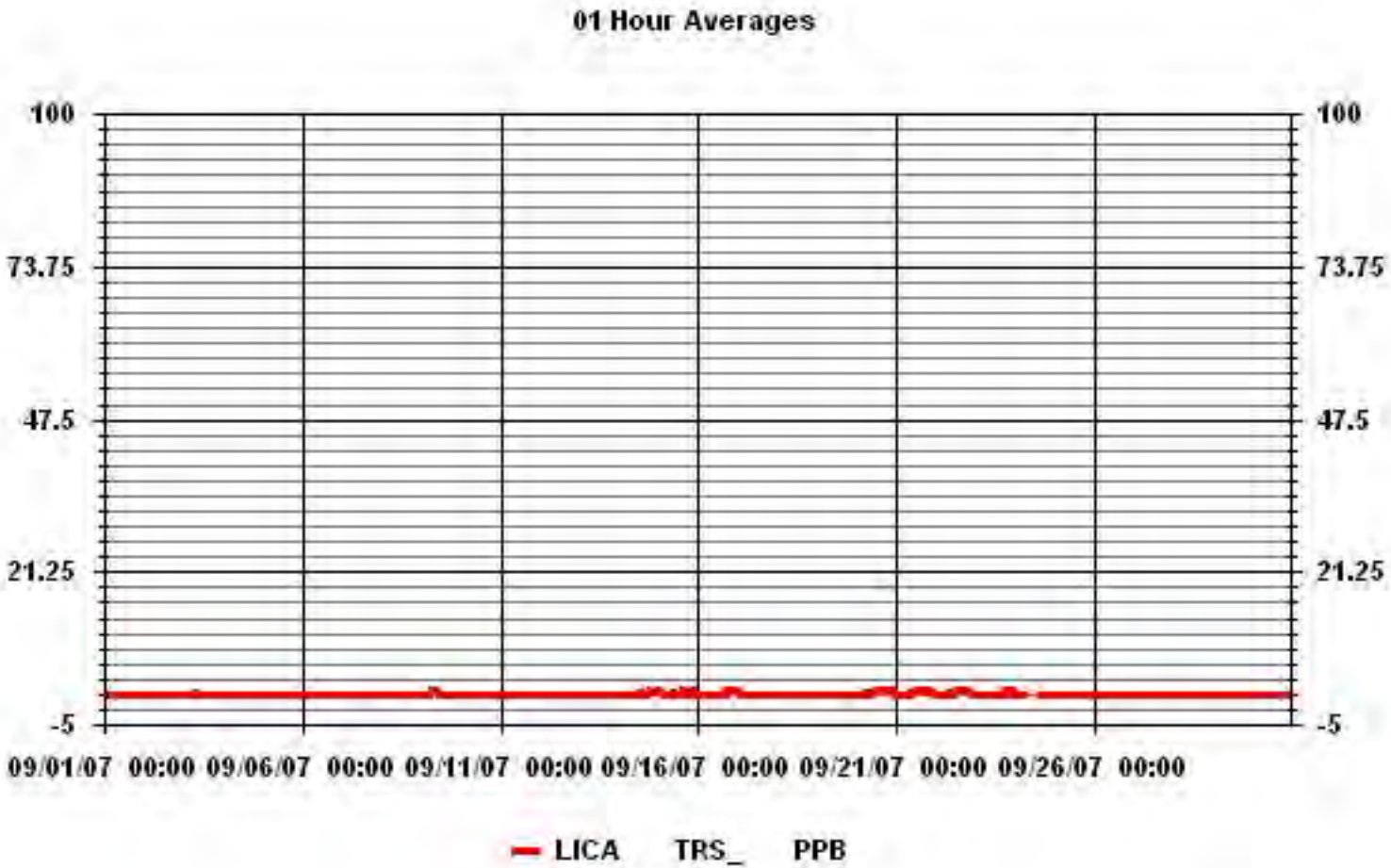
NUMBER OF 1-HR EXCEEDENCES:	0					
NUMBER OF 24-HR EXCEEDENCES:	0					
NUMBER OF NON-ZERO READINGS:	59					
MAXIMUM 1-HR AVERAGE:	1	PPB	@ HOUR(S)	VAR	ON DAY(S)	VAR
MAXIMUM 24-HR AVERAGE:	0.5	PPB			ON DAY(S)	20

VAR-VARIOUS

IZS CALIBRATION TIME:	30	HRS	OPERATIONAL TIME:	720	HRS
MONTHLY CALIBRATION TIME:	11	HRS	AMD OPERATION UPTIME:	100.0	%
STANDARD DEVIATION:	0.28		MONTHLY AVERAGE:	0.09	PPB

Maxxam Analytics Inc

MOUNTAIN STANDARD TIME


01 Hour Averages
100
73.75
47.5
21.25
-5
09/01/07 00:00
09/06/07 00:00
09/11/07 00:00
09/16/07 00:00
09/21/07 00:00
09/26/07 00:00
LICA TRS_ PPB

LICA
TRS_ / WD Joint Frequency Distribution (Percent)

September 2007

Distribution By % Of Samples

Logger Id : 01
Site Name : LICA
Parameter : TRS_
Units : PPB

Wind Parameter : WD
Instrument Height : 10 Meters

Direction

Limit	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Freq
< 3	2.06	1.91	1.91	2.94	4.71	6.18	8.68	2.65	4.12	6.77	11.48	15.31	10.16	10.01	7.95	3.09	100.00
< 10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
< 50	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
>= 50	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Totals	2.06	1.91	1.91	2.94	4.71	6.18	8.68	2.65	4.12	6.77	11.48	15.31	10.16	10.01	7.95	3.09	

Calm : .00 %

Total # Operational Hours : 679

Distribution By Samples

Direction

Limit	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Freq
< 3	14	13	13	20	32	42	59	18	28	46	78	104	69	68	54	21	679
< 10																	
< 50																	
>= 50																	
Totals	14	13	13	20	32	42	59	18	28	46	78	104	69	68	54	21	

Calm : .00 %

Total # Operational Hours : 679

Logger : 01 Parameter : TRS_

Class Limits (PPB)

>= 50

< 50

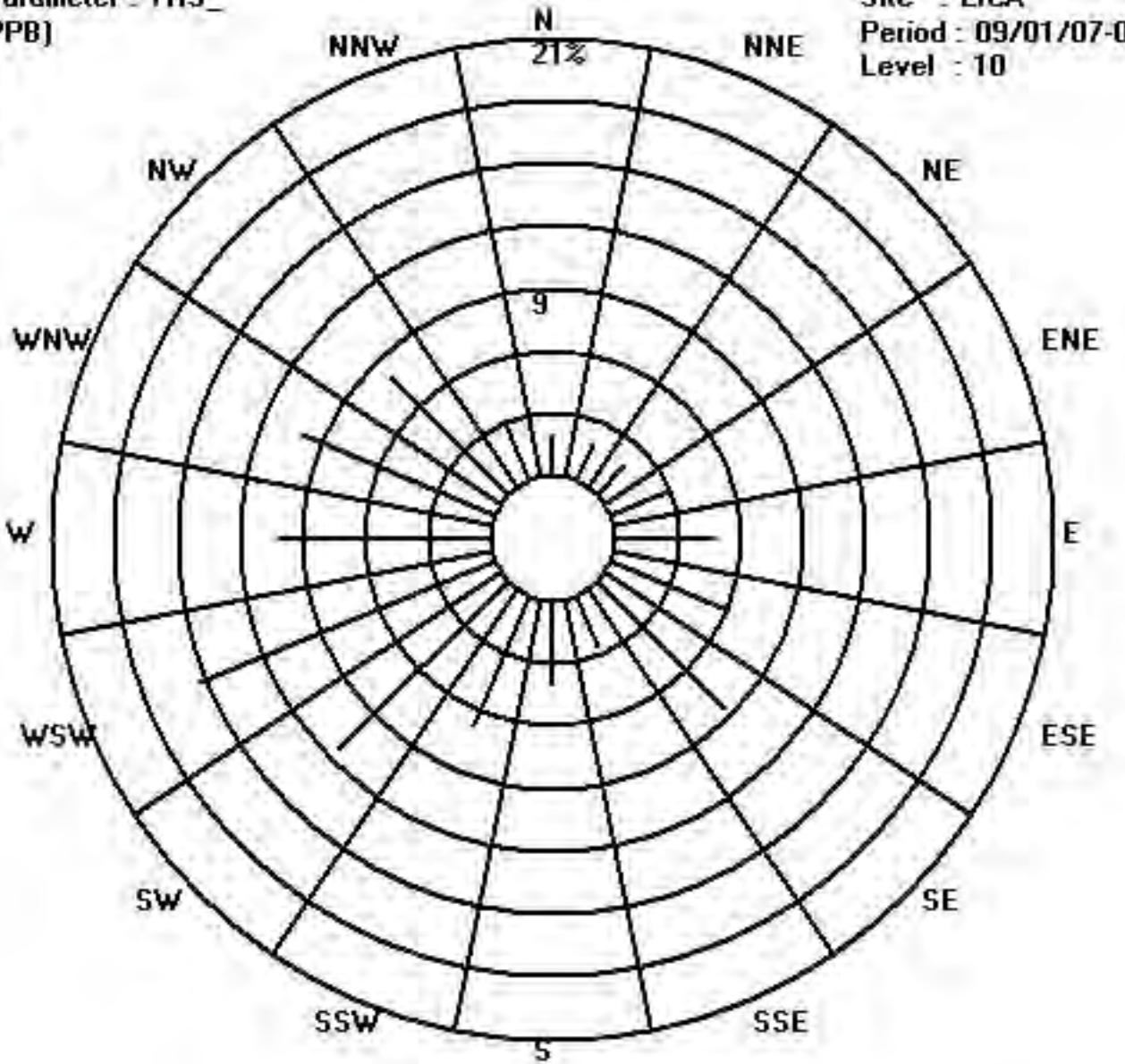
< 10

< 3

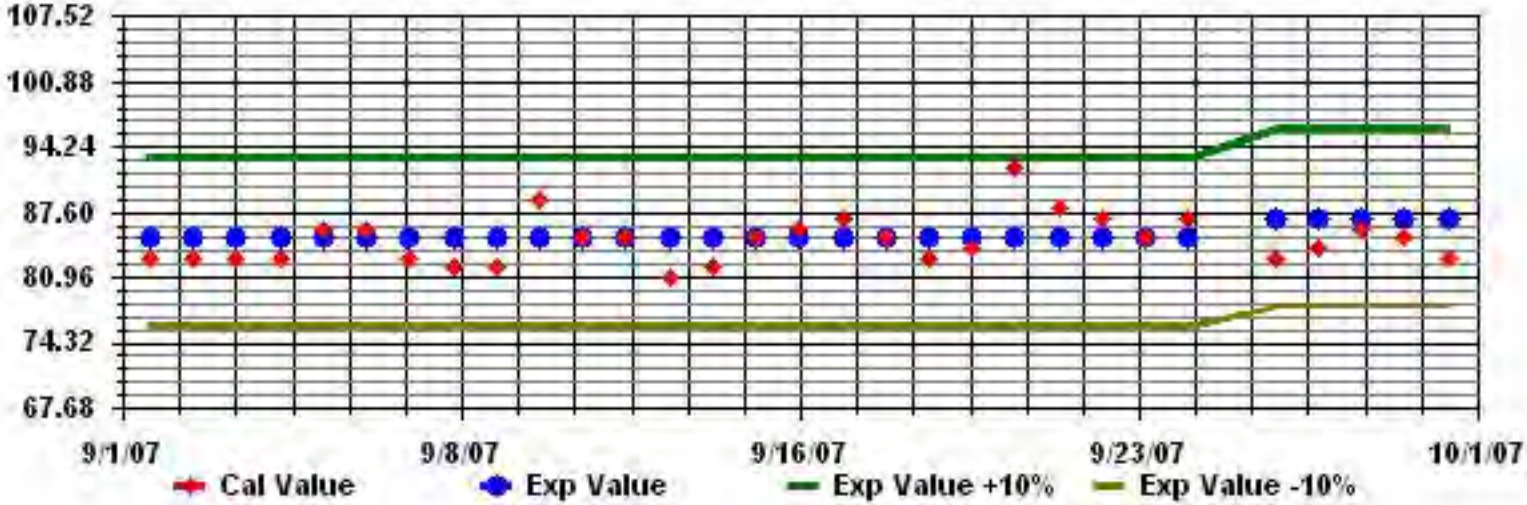
Site : LICA

Period : 09/01/07-09/30/07

Level : 10



Calibration Graph for Site: LICA Parameter: TRS_ Sequence: TRS Phase: SPAN



LAKELAND INDUSTRY & COMMUNITY ASSOCIATION -*COLD LAKE*

SEPTEMBER 2007

TOTAL REDUCED SULPHUR MAX instantaneous maximum in ppb

HOUR START	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	DAILY 24-HOUR		
HOUR END	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	MAX.	AVG.	RDGS.
DAY																											
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	IZS	1	1	1	1	1	1	1	1	1	1	1.0	24
2	1	1	1	1	1	1	1	1	1	1	1	1	1	IZS	1	1	1	1	1	1	1	1	1	1	1	1.0	24
3	1	1	1	1	1	1	1	1	2	1	1	1	IZS	1	1	1	1	1	1	1	1	1	1	1	2	1.0	24
4	1	1	1	1	1	1	1	1	1	1	1	IZS	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	24
5	1	1	1	1	1	1	1	1	1	1	IZS	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	24
6	1	1	1	1	1	1	1	1	1	IZS	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	24
7	1	1	1	1	1	1	1	1	IZS	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	24
8	1	1	1	1	1	1	1	IZS	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	2	1.0	24
9	1	1	1	1	1	1	IZS	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	24
10	1	1	1	1	1	IZS	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	24
11	1	1	1	1	IZS	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	24
12	1	1	1	IZS	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	24
13	1	1	IZS	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	24
14	1	IZS	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	24
15	IZS	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	IZS	2	1.0	24
16	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	IZS	1	1	1.0	24
17	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	IZS	1	1	1	1.0	24
18	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	IZS	1	1	1	2	1.0	24
19	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	IZS	1	1	1	1	1	1.0	24
20	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	IZS	1	1	1	1	1	1	1.0	24
21	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	IZS	1	1	1	1	1	1	2	1.0	24
22	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	IZS	1	1	1	1	1	1	1	1	1.0	24
23	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	IZS	1	1	1	1	1	1	1	1	1	1.0	24
24	1	1	1	1	1	1	1	C	C	C	C	C	C	C	IZS	1	1	1	1	0	0	0	0	1	1	0.8	24
25	1	0	1	1	0	1	1	1	1	C	C	C	C	1	1	1	1	1	1	1	1	1	0	1	1	0.9	24
26	1	1	1	1	0	1	0	1	1	1	1	1	IZS	1	0	1	0	1	1	0	0	1	1	0	1	0.7	24
27	0	0	1	0	1	1	1	0	1	1	1	IZS	1	0	1	0	0	1	1	1	1	0	0	1	1	0.6	24
28	1	0	1	0	0	1	0	1	1	0	IZS	1	0	1	1	1	1	0	1	1	0	1	1	1	1	0.7	24
29	1	0	0	1	1	0	0	1	0	IZS	0	0	1	0	1	0	0	0	0	1	1	0	0	0	1	0.3	24
30	0	0	0	1	1	0	0	0	IZS	1	0	0	0	0	1	1	1	1	1	0	1	1	1	0	1	0.5	24
HOURLY MAX	1	2	1	1	1	1	1	1	2	1	1	1	2	2	1	1	1	1	1	2	1	1	1	1			
HOURLY AVG	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.0	1.0	0.9	0.9	1.0	0.9	1.0	0.9	0.9	0.9	1.0	0.9	0.9	0.9	0.9	0.9			

STATUS FLAG CODES

S	- OUT OF SERVICE	IZS	- IZS - DAILY ZERO/SPAN CHECK
N	- INVALID DATA	M	- MAINTENANCE
D	- INSTRUMENT DRIFT	P	- POWER FAILURE
C	- CALIBRATION	NA	- NOT APPLICABLE

MONTHLY SUMMARY

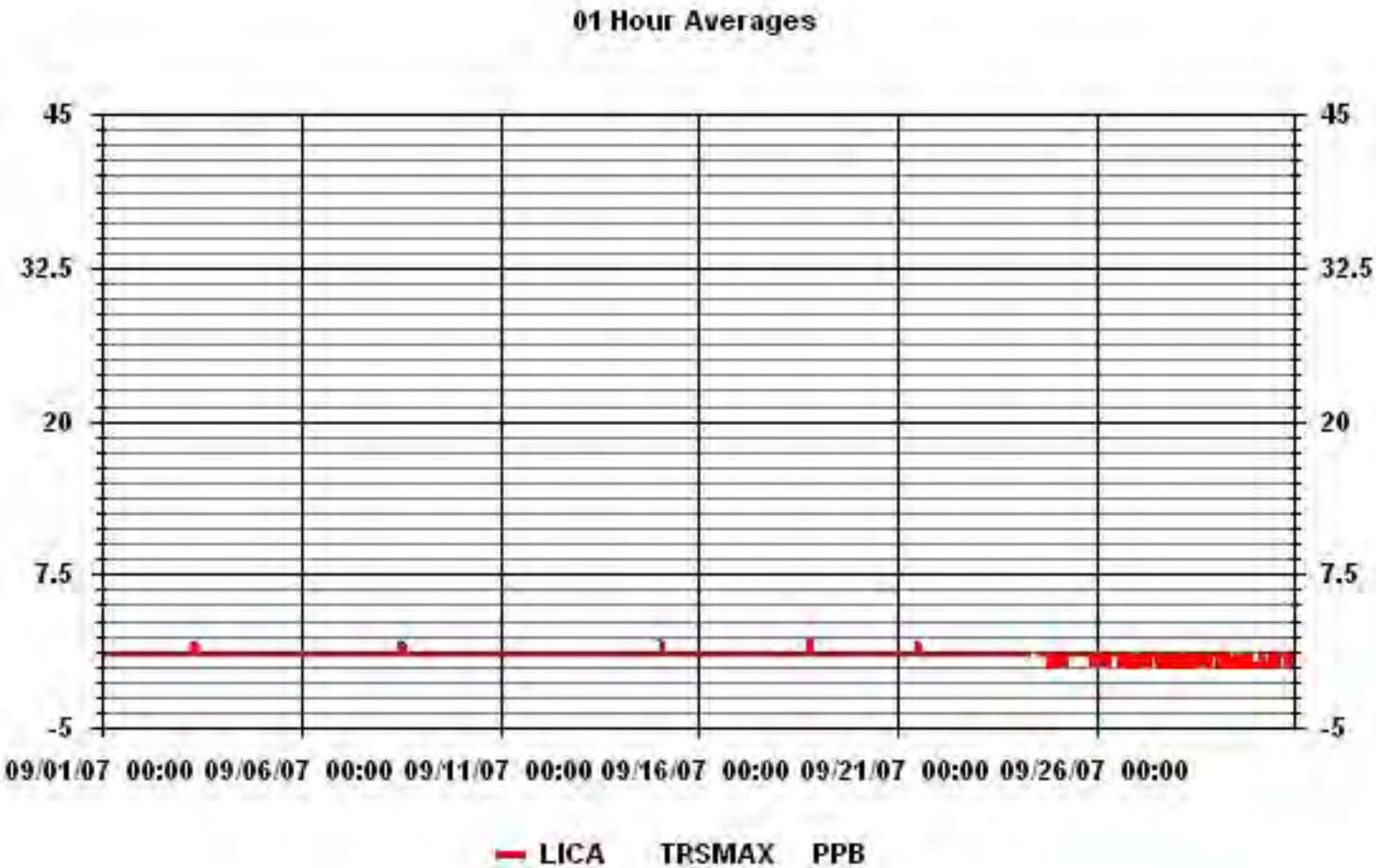
NUMBER OF NON-ZERO READINGS:	621					
MAXIMUM INSTANTANEOUS VALUE:	2	PPB	@ HOUR(S)	VAR	ON DAY(S)	VAR

VAR-VARIOUS

IZS CALIBRATION TIME:	30	HRS	OPERATIONAL TIME:	720	HRS
MONTHLY CALIBRATION TIME:	11	HRS			
STANDARD DEVIATION:	0.29				

MOUNTAIN STANDARD TIME

Maxxam Analytics Inc


01 Hour Averages
45
32.5
20
7.5
-5
09/01/07 00:00
09/06/07 00:00
09/11/07 00:00
09/16/07 00:00
09/21/07 00:00
09/26/07 00:00
LICA TRSMAX PPB

THC

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - *COLD LAKE*

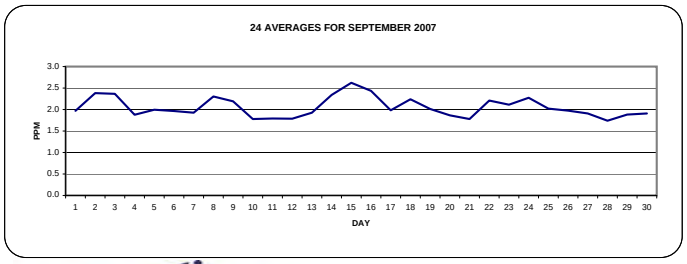
SEPTEMBER 2007

TOTAL HYDROCARBONS (THC) hourly averages in ppm

HOUR START	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	DAILY	24-HOUR	
HOUR END	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	MAX.	AVG.	RDGS.
DAY																											
1	1.7	1.7	1.7	1.7	1.8	1.8	1.8	1.7	1.7	1.8	1.7	1.7	1.7	1.7	**IZS**	1.7	1.7	1.7	1.8	2.7	2.7	2.6	2.5	3.7	3.7	2.0	24
2	3.6	2.5	3.3	3.3	4	3.1	3	2.4	2.2	2.1	2	1.8	1.8	**IZS**	1.8	1.8	1.9	1.8	1.8	1.8	1.8	2	2.3	2.7	4.0	2.4	24
3	2.7	4	4.2	3.7	3	2.7	2.7	2.5	2.2	1.8	1.8	1.8	**IZS**	1.8	1.7	1.7	1.7	1.8	2	2	2.1	2.2	2.2	2.1	4.2	2.4	24
4	2.7	2.7	2.1	2.2	2	2	1.8	1.8	1.7	1.8	1.8	**IZS**	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.8	1.8	2.7	1.9	24
5	1.8	1.8	2	2	1.8	1.8	1.8	1.8	1.8	1.8	**IZS**	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	2.5	2.8	3.2	2.7	2.7	3.2	2.0	24
6	2.1	3	2.8	2.4	2.3	2.3	2.1	1.8	1.8	**IZS**	1.9	1.9	1.8	1.7	1.7	1.7	1.7	1.7	1.7	1.8	1.8	1.8	1.7	1.7	3.0	2.0	24
7	1.8	1.9	2	1.8	1.8	1.8	1.8	1.8	**IZS**	1.8	1.8	1.9	1.8	1.8	1.8	1.8	1.8	1.8	2.1	2.1	2	2.1	2.4	2.6	2.6	1.9	24
8	2.2	2.9	2.4	2.3	2.2	2.2	2.4	**IZS**	2	2	1.9	1.9	1.8	1.9	1.8	1.8	1.7	1.8	1.8	2.9	3.1	2.7	3.8	3.5	3.8	2.3	24
9	3.4	3.4	3.2	2.7	3.1	2.6	**IZS**	2.4	2.1	2	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.9	1.9	1.8	1.8	1.8	3.4	2.2	24
10	1.8	1.8	1.8	1.8	1.8	**IZS**	1.8	1.8	1.7	1.7	1.7	1.7	1.7	1.7	1.8	1.8	1.8	1.8	1.8	1.8	1.9	1.8	1.8	1.8	1.9	1.8	24
11	1.8	1.8	1.8	1.8	**IZS**	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.8	1.8	1.7	1.7	1.7	1.7	1.7	1.8	1.7	1.7	1.7	1.7	1.9	1.8	24
12	1.7	1.7	1.7	**IZS**	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	24
13	1.8	1.8	**IZS**	1.8	1.8	1.9	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.9	1.9	1.9	2	2	2	2.1	3.2	3.2	1.9	24
14	2.3	**IZS**	2.3	2.3	2.3	2.3	2.4	2.3	2.1	2	2	2	2	2	2	1.9	1.9	1.9	2.2	2.8	3.6	2.8	3	3.4	3.6	2.3	24
15	**IZS**	**4.4**	3.9	3	3.7	2.9	3.5	2.9	2.4	2	1.9	1.8	1.8	1.8	1.7	1.7	1.7	1.7	2.8	2.6	3.3	3.4	2.8	**IZS**	4.4	**2.6**	24
16	3.4	3.7	3.9	3.6	2.8	2.8	3.2	3	2.2	2	1.8	1.7	1.8	1.8	1.7	1.7	1.7	2.1	2.2	2.2	2.4	2.3	**IZS**	2	3.9	2.4	24
17	2.2	2	1.7	1.7	1.8	1.7	1.8	1.9	1.8	1.8	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	2	2.8	3.1	**IZS**	3.3	2.4	3.3	2.0	24
18	3.7	3	3.2	2.7	2.8	2.9	2.7	2.6	2.1	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.2	1.9	**IZS**	1.9	1.8	1.8	3.7	2.2	24
19	2.2	2.9	2.3	2.2	2.1	2.6	2.2	2	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.9	**IZS**	1.9	1.9	2	2	2.9	2.0	24
20	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2	1.8	1.8	1.8	1.8	1.8	1.7	1.7	1.7	1.7	1.7	**IZS**	1.9	1.7	1.7	1.7	1.7	2.1	1.9	24
21	1.7	1.7	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.7	1.8	1.8	1.8	1.7	1.7	**IZS**	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	24
22	1.8	1.9	1.9	2.4	3.3	2.3	2.2	2	1.9	1.9	2	2.1	2.1	2.1	2.1	2	**IZS**	1.7	1.9	2.9	2.3	2.9	2.7	2.4	3.3	2.2	24
23	2.3	2.9	3.2	2.9	2	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	**IZS**	1.8	1.8	2.1	2.2	2.3	2.1	2.3	2.7	3.2	2.1	24
24	2.9	2.8	2.9	2.7	3.1	3.7	3	2.5	**C**	**C**	**C**	**IZS**	1.7	1.7	**IZS**	1.8	1.8	1.7	1.8	1.8	1.8	1.8	1.8	1.9	3.7	2.3	24
25	1.9	2	1.9	2.2	2.4	2.6	2.4	2.4	2	1.8	1.7	1.7	1.6	1.6	**C**	1.6	1.7	1.7	1.7	2.1	2.3	2.2	2.9	2.1	2.9	2.0	24
26	2.3	3.2	2.5	2.6	2.7	2.5	1.9	1.8	1.7	1.7	1.7	1.6	**IZS**	1.6	1.6	1.6	1.6	1.7	1.7	1.7	1.8	1.8	2.1	2	3.2	2.0	24
27	2	2.8	2.1	2.1	2.1	2.1	2.2	2.1	2.1	2	1.9	**IZS**	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	2.8	1.9	24
28	1.6	1.6	1.6	1.6	1.7	1.7	1.7	1.7	1.7	1.7	**IZS**	1.8	1.9	1.9	1.8	1.8	1.7	1.7	1.7	1.7	1.7	2.3	1.7	1.7	2.3	1.7	24
29	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	**IZS**	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.9	2.3	2.7	2.5	2.7	2.3	2.7	1.9	24
30	2.8	2.4	2.6	2.5	2.2	1.8	1.8	1.8	**IZS**	1.9	1.9	1.8	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	2.8	1.9	24
HOURLY MAX	3.7	4.4	4.2	3.7	4.0	3.7	3.5	3.0	2.4	2.1	2.0	2.1	2.1	2.1	2.1	2.0	1.9	2.1	2.8	2.9	3.6	3.4	3.8	3.7			
HOURLY AVG	2.3	2.5	2.4	2.3	2.3	2.2	2.2	2.1	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.7	1.7	1.8	1.9	2.1	2.2	2.1	2.2	2.2			

STATUS FLAG CODES

S	- OUT OF SERVICE	IZS	- IZS - DAILY ZERO/SPAN CHECK
N	- INVALID DATA	M	- MAINTENANCE
D	- INSTRUMENT DRIFT	P	- POWER FAILURE
C	- CALIBRATION	NA	- NOT APPLICABLE
BB	- BELOW BACKGROUND OF 1.5 PPM		



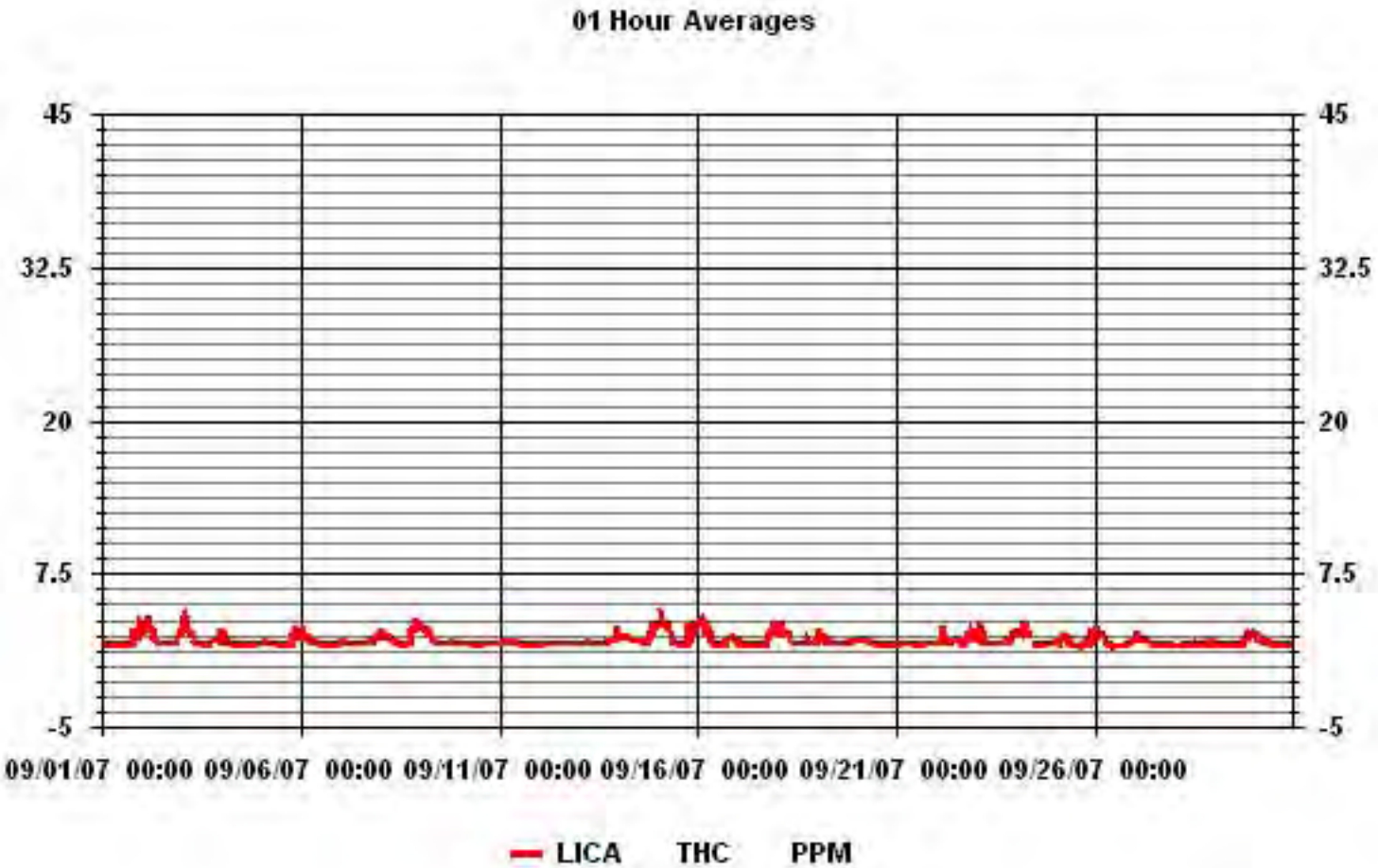
MONTHLY SUMMARY

NUMBER OF NON-ZERO READINGS:	685					
MAXIMUM 1-HR AVERAGE:	4.4	PPM	@ HOUR(S)	2	ON DAY(S)	15
MAXIMUM 24-HR AVERAGE:	2.6	PPM			ON DAY(S)	15

IZS CALIBRATION TIME:	31	HRS	OPERATIONAL TIME:	720	HRS
MONTHLY CALIBRATION TIME:	4	HRS	AMD OPERATION UPTIME:	100.0	%
STANDARD DEVIATION:	0.49		MONTHLY AVERAGE:	2.05	PPM

MOUNTAIN STANDARD TIME

Maxxam Analytics Inc


01 Hour Averages
45
32.5
20
7.5
-5
09/01/07 00:00
09/06/07 00:00
09/11/07 00:00
09/16/07 00:00
09/21/07 00:00
09/26/07 00:00
LICA THC PPM

LICA
THC / WD Joint Frequency Distribution (Percent)

September 2007

Distribution By % Of Samples

Logger Id : 01
Site Name : LICA
Parameter : THC
Units : PPM

Wind Parameter : WD
Instrument Height : 10 Meters

Direction

Limit	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Freq
< 3.0	2.04	1.75	1.75	2.77	4.37	5.83	8.46	2.18	3.35	5.54	10.07	13.86	10.21	9.78	7.88	3.06	92.99
< 10.0	.00	.14	.14	.14	.29	.29	.29	.43	.72	1.16	1.60	1.45	.29	.00	.00	.00	7.00
< 50.0	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
>= 50.0	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Totals	2.04	1.89	1.89	2.91	4.67	6.13	8.75	2.62	4.08	6.71	11.67	15.32	10.51	9.78	7.88	3.06	

Calm : .00 %

Total # Operational Hours : 685

Distribution By Samples

Direction

Limit	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Freq
< 3.0	14	12	12	19	30	40	58	15	23	38	69	95	70	67	54	21	637
< 10.0		1	1	1	2	2	2	3	5	8	11	10	2				48
< 50.0																	
>= 50.0																	
Totals	14	13	13	20	32	42	60	18	28	46	80	105	72	67	54	21	

Calm : .00 %

Total # Operational Hours : 685

Logger : 01 Parameter : THC

Class Limits (PPM)

>= 50.0

< 50.0

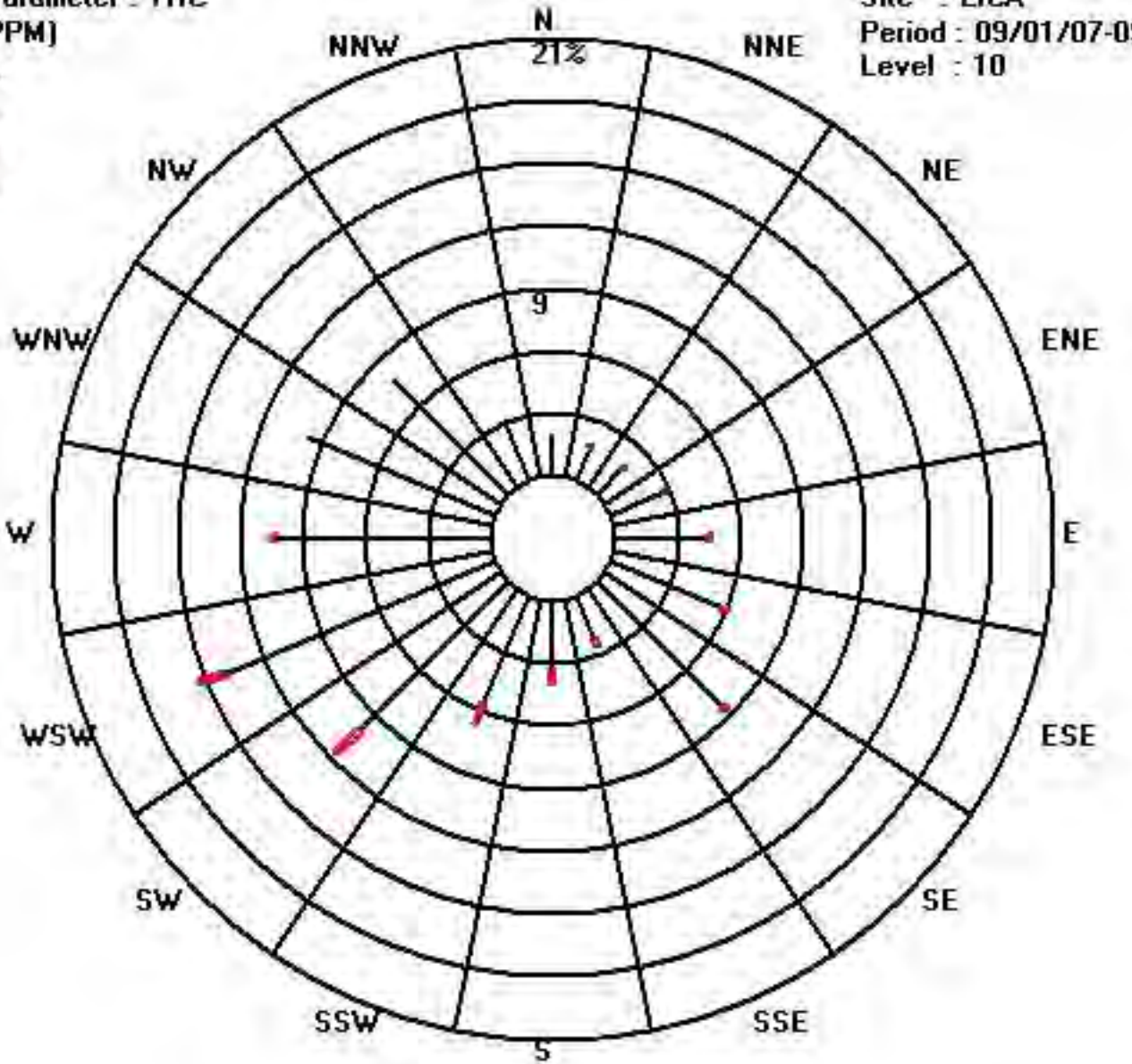
< 10.0

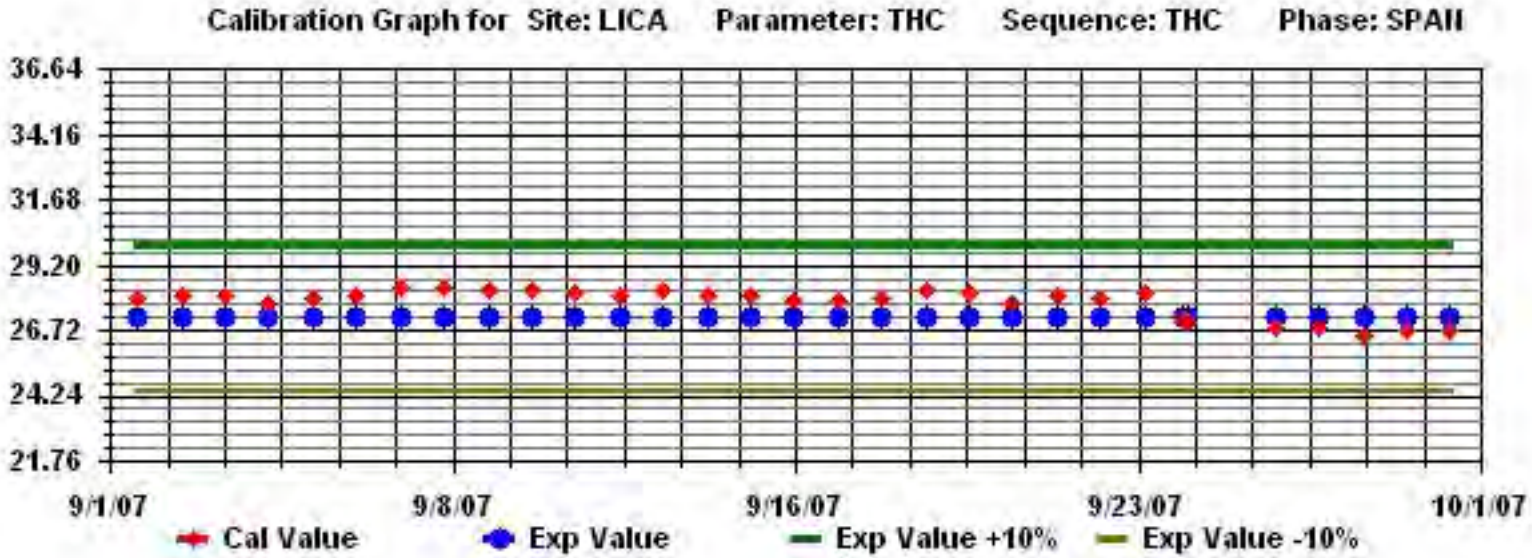
< 3.0

Site : LICA

Period : 09/01/07-09/30/07

Level : 10




Calibration Graph for Site: LICA Parameter: THC Sequence: THC Phase: SPAII
36.64
34.16
31.68
29.20
26.72
24.24
21.76
9/1/07
9/8/07
9/16/07
9/23/07
10/1/07
Cal Value
Exp Value
Exp Value +10%
Exp Value -10%

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION -*COLD LAKE*

SEPTEMBER 2007

TOTAL HYDROCARBONS MAX instantaneous maximum in ppm

HOUR START	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	DAILY 24-HOUR		
HOUR END	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	MAX.	AVG.	RDGS.
DAY																											
1	1.7	2.3	1.8	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.7	1.7	**IZS**	1.7	1.8	1.8	2.8	4.9	4.8	4.7	3.5	6	6	2.5	24
2	7.8	3	4.8	7.1	9.7	4.2	6.1	2.8	2.2	2.2	2.1	2	2	**IZS**	1.8	1.9	1.9	1.9	2	1.8	1.9	2.9	3	3.7	9.7	3.4	24
3	3.5	6.4	6.6	8.1	5.6	3.3	4.3	3.7	2.3	2.2	1.9	1.8	**IZS**	1.8	1.8	1.9	1.8	1.9	2.5	2.1	2.3	2.5	2.9	2.4	8.1	3.2	24
4	6.6	4	3.7	2.8	2.4	2.1	2	1.8	1.8	1.8	1.8	**IZS**	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.8	1.8	2	1.9	6.6	2.3	24
5	1.9	2.1	2.2	2.2	1.9	1.9	1.8	1.8	1.8	1.8	**IZS**	1.8	1.7	1.7	1.7	1.7	1.7	1.7	1.8	5.8	4.7	5.7	4	4.7	5.8	2.5	24
6	3.2	5.7	4.4	2.8	2.7	3.4	3.3	1.8	1.8	**IZS**	2	2	1.8	1.7	1.9	1.9	1.8	1.8	1.8	2.1	1.9	1.9	1.8	1.8	5.7	2.4	24
7	1.8	3.4	3.3	1.9	1.8	1.8	1.8	1.8	**IZS**	1.8	1.9	2.1	2	1.8	1.9	2	1.8	2	3.3	4.4	2.9	3.7	3.2	4	4.4	2.5	24
8	2.6	5.5	2.5	2.4	2.3	2.4	2.7	**IZS**	2.1	2.1	2	2	1.9	2.3	1.9	1.8	1.8	2.1	1.9	6.3	5.8	7.3	4.9	7.1	7.3	3.2	24
9	4	6.2	5.3	3.2	4.1	3	**IZS**	2.5	2.4	2.1	2	2.2	1.8	1.8	1.8	1.9	1.9	1.9	1.9	2	2	1.8	1.9	1.8	6.2	2.6	24
10	1.8	1.8	1.8	1.8	1.8	**IZS**	1.8	1.8	1.7	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.9	2	2	2.2	1.9	1.8	1.8	2.2	1.8	24
11	1.8	1.9	1.8	1.9	**IZS**	2	2	2	1.9	1.9	2	2	1.9	1.9	1.8	1.7	1.7	1.7	1.8	2.1	1.9	1.7	1.7	1.7	2.1	1.9	24
12	1.8	1.8	1.8	**IZS**	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	24
13	1.9	1.9	**IZS**	1.8	1.9	1.9	2.1	2	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2	2.1	2.1	2.1	2.4	2.3	2.3	5.1	5.1	2.1	24
14	3.6	**IZS**	3.4	2.4	3.2	2.5	3.9	2.4	2.2	2.1	2.1	2.1	4.5	2	2	2	1.9	2.1	3.9	5.9	5.1	6.2	3.8	6.4	6.4	3.3	24
15	**IZS**	5.7	6	4	6.3	3.3	5.5	4.2	2.5	2.2	2	1.9	1.9	1.9	1.8	1.9	1.9	1.9	5.3	4.3	5.1	4.7	4.1	**IZS**	6.3	3.6	24
16	5.2	6.8	7.6	5.4	3.6	3.6	5.6	4.4	2.3	2.1	2	1.9	1.8	1.9	1.9	1.8	1.8	3.2	3.2	4.1	3.7	3.3	**IZS**	2.1	7.6	3.4	24
17	5	2.9	1.7	1.7	2.4	2	2	2	2	1.8	1.8	1.8	1.8	1.7	1.7	1.7	1.7	1.7	3.2	4	4.4	**IZS**	4.9	3.4	5	2.5	24
18	7.1	4.5	6.8	3.3	3.7	4	3.1	2.8	2.4	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2	4.9	2	**IZS**	1.9	1.9	1.9	7.1	2.9	24
19	3	5.5	5.6	3.3	3.7	4.8	2.7	2.2	2	1.9	1.8	1.8	1.8	1.9	1.9	1.9	1.9	1.9	2	**IZS**	1.9	2	2	2.1	5.6	2.6	24
20	2.1	2.1	2.3	2.2	2.1	2.3	2.4	2.5	1.9	1.9	1.9	2	1.9	1.8	1.8	1.7	1.7	1.7	**IZS**	2.7	1.9	1.8	1.8	1.8	2.7	2.0	24
21	1.7	1.8	1.8	1.8	1.9	1.8	1.9	1.9	1.8	1.8	1.8	1.8	1.9	2.1	2	1.8	1.8	**IZS**	1.9	1.8	1.9	1.8	1.8	1.8	2.1	1.8	24
22	1.9	2	2	6	10.4	2.8	3.7	2.2	2.2	2	2	2.2	2.2	2.2	2.2	2.1	**IZS**	1.9	3.5	4.7	3.3	4.3	5.3	3.6	10.4	3.2	24
23	2.4	4.6	9.3	5.3	2.3	1.9	1.8	2	1.8	1.8	1.8	1.8	1.8	1.8	1.8	**IZS**	1.8	1.9	3.2	3.3	3.9	5.2	3.5	4	9.3	3.0	24
24	4.3	3.6	4.2	4	6.2	4.3	3.7	2.8	**C**	**C**	**C**	**IZS**	1.8	1.8	**IZS**	1.8	1.8	1.8	1.9	1.9	1.8	1.9	1.9	1.9	6.2	2.8	24
25	2	2.1	2.3	2.7	3.4	4.2	2.9	3.1	2.2	1.9	1.8	1.7	1.7	1.8	**C**	4.7	2.3	1.9	1.8	3	5	5.2	5.4	2.7	5.4	2.9	24
26	3.9	6.6	3.2	3.9	4.3	4.2	2	2	1.8	1.7	1.7	1.7	**IZS**	1.7	1.7	1.7	1.7	1.7	1.7	2	1.9	2	3.4	2.7	6.6	2.6	24
27	2.5	**11.6**	2.3	2.4	2.7	2.3	2.3	2.3	2.2	2.1	2	**IZS**	1.8	1.8	1.8	1.8	1.8	1.8	1.7	1.7	1.7	1.7	1.7	1.7	11.6	2.4	24
28	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.8	**IZS**	1.9	2	2	1.8	1.8	1.8	1.8	1.8	1.8	1.9	5.3	1.8	1.7	5.3	1.9	24
29	1.7	1.7	1.7	1.7	1.7	1.7	1.8	1.8	1.8	**IZS**	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.8	2.5	4	5.8	4.1	3.5	3.3	5.8	2.3	24
30	7	3	3.4	2.9	3.4	1.9	1.8	1.9	**IZS**	1.9	1.9	1.8	1.8	1.8	1.8	1.9	1.7	1.8	1.8	1.8	1.7	1.7	1.7	1.7	7	2.3	24
HOURLY MAX	8	12	9	8	10	5	6	4	3	2	2	2	5	2	2	5	2	3	5	6	6	7	5	7			
HOURLY AVG	3.3	3.9	3.6	3.2	3.5	2.7	2.8	2.3	2.0	1.9	1.9	1.9	1.9	1.8	1.8	1.9	1.8	1.9	2.5	3.0	3.0	3.2	2.9	3.0			

STATUS FLAG CODES

S	- OUT OF SERVICE	IZS	- IZS - DAILY ZERO/SPAN CHECK
N	- INVALID DATA	M	- MAINTENANCE
D	- INSTRUMENT DRIFT	P	- POWER FAILURE
C	- CALIBRATION	NA	- NOT APPLICABLE
BB	- BELOW BACKGROUND OF 1.5 PPM		

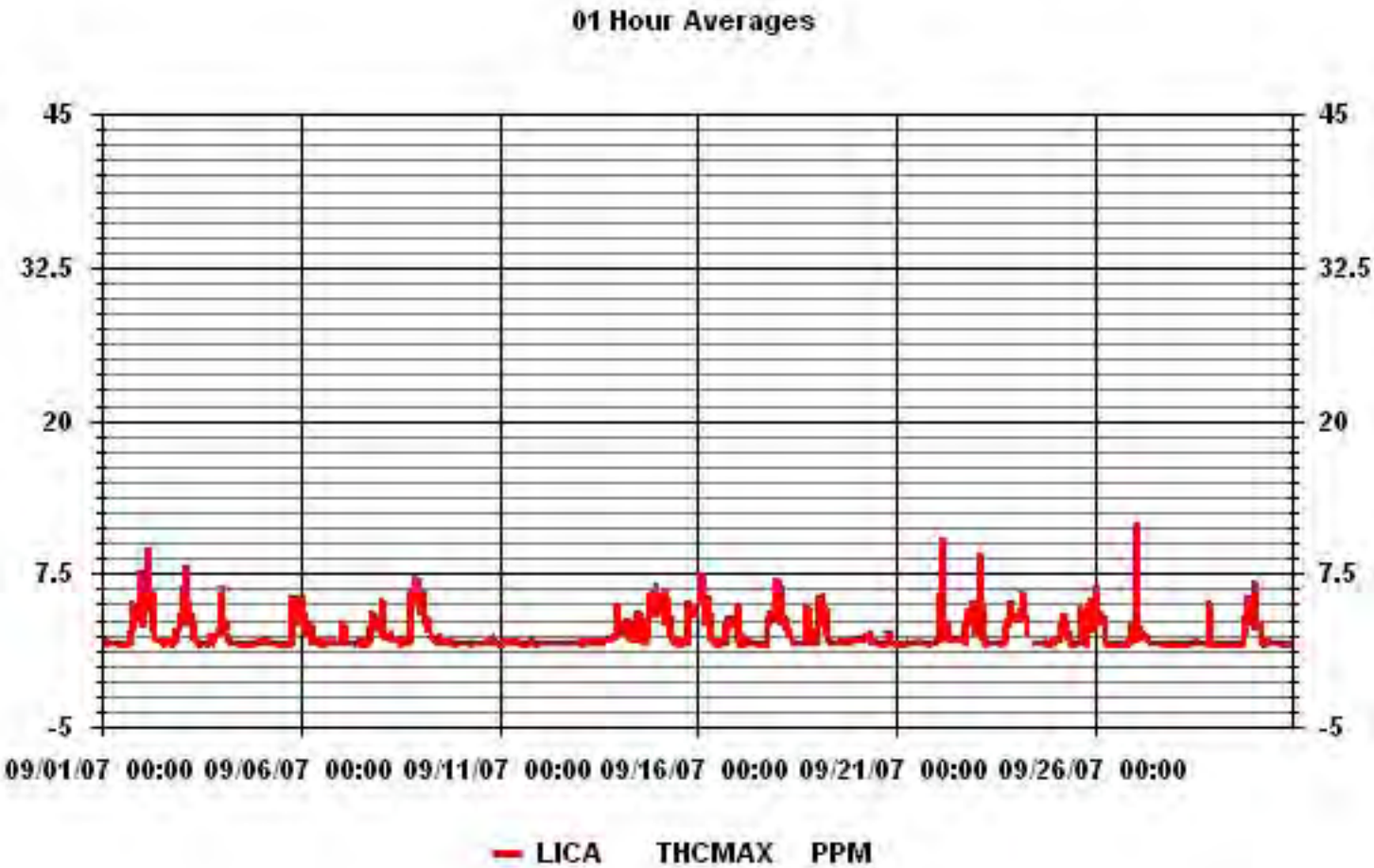
MONTHLY SUMMARY

NUMBER OF NON-ZERO READINGS:	685					
MAXIMUM INSTANTANEOUS VALUE:	11.6	PPM	@ HOUR(S)	2	ON DAY(S)	27

IZS CALIBRATION TIME:	31	HRS	OPERATIONAL TIME:	720	HRS
MONTHLY CALIBRATION TIME:	4	HRS			
STANDARD DEVIATION:	1.39				

MOUNTAIN STANDARD TIME

Maxxam Analytics Inc


01 Hour Averages
45
32.5
20
7.5
-5
09/01/07 00:00
09/06/07 00:00
09/11/07 00:00
09/16/07 00:00
09/21/07 00:00
09/26/07 00:00
LICA THCMAX PPM

PARTICULATE MATTER 2.5

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - *COLD LAKE*

SEPTEMBER 2007

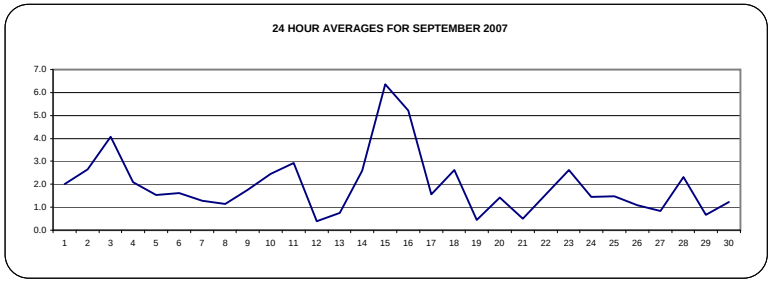
PARTICULATE MATTER 2.5 (PM2.5) hourly averages in ug/m^3

HOUR START	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	DAILY	24-HOUR	
HOUR END	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	MAX.	AVG.	RDGS.
DAY																											
1	**D**	1.3	2.1	4.1	0.3	1.5	3	2.7	3.4	3.4	5.4	3.2	2.8	0	0.6	0	3.5	0	2.2	3.2	0	3.5	0	0	5.4	2.0	23
2	0	1	1.5	0.1	0	1.5	6.5	16.8	0	3	2.1	0	2.6	0	4.6	0	5.8	4.3	3.5	4.4	5.1	0.9	0	0	16.8	2.7	24
3	0.8	3.1	2.9	1.5	3.3	3.7	6	8.2	12.2	0	3.4	4	4	1.8	**D**	2.3	7.6	8	8.3	1.6	1.1	1.4	3.8	4.5	12.2	4.1	23
4	2.6	1.9	5.2	2.7	0	2.3	3	3.2	6	2	3	2.9	2.9	6.6	1.3	0	0.7	0.5	0	0	0	1.3	1.4	0.5	6.6	2.1	24
5	0.7	0	0	0.3	0.8	0	1.4	1.9	2	1.6	0.9	**D**	0	0	1.7	0	2	0	1.9	7.8	4.5	4	3	0.7	7.8	1.5	23
6	2.8	0.9	1.6	0.9	1	0	7.3	0	3.4	4.3	**N**	**N**	**N**	2.3	0	3.6	0	1.3	1.7	1.4	1.4	0	0	0	7.3	1.6	21
7	0	0.3	0.2	0	0	0	0	0.2	0	0	0	1.5	2.6	2	0.2	0.7	1.9	6.4	5.5	4	2.9	0	0	2.6	6.4	1.3	24
8	0	2.1	1.3	0.7	0	0.8	2.5	2.6	4.1	3.3	0	2.6	0	2.7	0.1	0.9	0.2	0.2	0.1	**D**	0	2.1	0	0	4.1	1.1	23
9	0	0	0.2	0	1.8	0.3	1.6	3.8	5.6	9.9	**D**	**D**	0	0	0	0.7	1.3	1.5	1	0.1	0	6.3	1.5	2.8	9.9	1.7	22
10	3.6	4.5	3.4	4	3.8	2.9	2.9	0	1.1	2.1	2.1	1.4	2.6	1.6	4	2.2	1.5	2.8	6.2	2.4	2.8	0.7	0	0.4	6.2	2.5	24
11	0	0.7	0.9	0.7	0	0.5	0.7	1.1	1.7	2.4	6.9	7.3	8.4	6.5	6.8	6.8	6.6	1.9	3.5	1.1	0	0.2	**D**	**D**	8.4	2.9	22
12	**D**	**D**	0	0	0	0	0	0	0	0	0	0	1.1	0	0.9	0.2	1.4	0.1	1.8	0.4	0	0	2	0.8	2.0	0.4	22
13	0.2	0.6	0.6	0.5	0.6	0.6	1.9	0.4	0	0	0	0	0	0	0	0	0	1.8	6.9	1.2	0.8	1.7	0.5	0	6.9	0.8	24
14	0	0	0	0.2	0.3	1	7.8	3.6	0	0	1.2	2.7	2.8	3.9	2.5	4.7	3.3	7.2	9.3	3.1	2.2	3	1	2.4	9.3	2.6	24
15	2.8	3.2	4.3	4.5	3.3	4.7	7.9	13.1	4	8.3	9.6	8.9	6.8	3.7	3.9	3.8	1.8	12.6	14.4	6	5.7	4.9	7.5	6.6	14.4	**6.3**	24
16	5.5	5	3.8	4.5	4.8	4.6	10.6	7.6	1.6	4.6	3.8	2.5	4.9	4.6	1.9	1.7	4.9	16.8	6.8	2.6	4.1	6.9	7.2	4	16.8	5.2	24
17	1.1	12.3	3.2	4.8	1	0.4	2.2	0.9	0	0	0	0	0	**D**	**D**	0	0	2.3	6.2	0	0	0	0	0.2	12.3	1.6	22
18	0	0.3	3.3	0.6	1	1.9	5.5	9.3	4.1	**D**	**D**	0	0	0	0	0	0	0	**29.6**	0	0.3	0.8	0.1	0.6	29.6	2.6	22
19	0.1	0	0	0	0	0	3.7	4	0	0	0	**D**	0	0	0	0	0	0.8	1.5	0	0.4	0	0	0	4.0	0.5	23
20	0	0	0	0	0.4	1.3	2.7	2.1	0	0	2	2	2	1.4	0.5	0.1	2.1	2.1	8.5	1.8	3.9	1.2	0.2	0	8.5	1.4	24
21	0	0	0	0	0.3	0.7	2.4	2.5	0	0	0	**C**	**C**	**C**	**D**	**D**	**D**	**D**	**D**	**D**	**D**	**D**	**D**	0	2.5	0.5	15
22	0	0	0	**D**	0	0	0.4	1.6	2.7	0.5	1.7	2.9	5.5	3.1	3.5	3	3.5	0	0	0.1	4.2	1.6	1	0.8	5.5	1.6	23
23	0	0	1	3.6	3.4	2.3	1.7	0.9	0	0	0	0.7	0.5	1.8	4.2	2.3	6.6	10.4	5.8	3.8	3.8	3.1	4	3	10.4	2.6	24
24	2.8	2.9	2.8	2.7	2.2	0.3	3.6	5.1	1.8	0	0	0	0	0	0.9	0.8	0.1	1.3	1.7	0.3	0.7	1.1	1.5	2	5.1	1.4	24
25	2.9	2.7	2.6	2.9	3.1	2.9	3.7	4.5	3.8	**C**	0.3	0.3	0	0	0	1.2	1.7	0	0	0	0	0	0	1.5	4.5	1.5	24
26	0	0	0	0	0.6	2.1	1.3	1.9	1.9	0.2	0.7	0	0.8	1.4	2.5	3.5	2.8	1.6	1.5	0.7	1	0.7	0	1.1	3.5	1.1	24
27	0	0	1.3	0	0	0	1.4	5.9	2.5	0.8	3	0	0	0	0	0.1	0.5	0.9	1	0.7	1.1	1.1	0	0.1	5.9	0.9	24
28	0	0.8	0.3	1.2	0	1.5	1.6	2.6	2.2	3.3	2.8	3.2	3.4	2.5	2.9	4.6	3.5	2.9	4.3	2.4	2.2	2.5	2.4	2.3	4.6	2.3	24
29	2	0.6	1.1	0.9	0.4	1.3	1.3	2	0	0.1	0	0.6	0	0	0	0.3	0	0.4	0.4	1.3	1.9	0.5	0.4	0.4	2.0	0.7	24
30	1.8	3.7	2.3	1.1	0.3	0	0.5	1.7	1.4	0.8	0	0.2	0	1	2.2	0.9	1.8	1.6	2.6	1.4	1.2	1.5	0.8	0.7	3.7	1.2	24
HOURLY MAX	6	12	5	5	5	5	11	17	12	10	10	9	8	7	7	7	8	17	30	8	6	7	8	7			
HOURLY AVG	1.1	1.7	1.5	1.5	1.1	1.3	3.2	3.7	2.2	1.8	1.8	1.9	1.9	1.7	1.7	1.5	2.2	3.1	4.7	1.9	1.8	1.8	1.4	1.3			

STATUS FLAG CODES

S	- OUT OF SERVICE	IZS	- IZS - DAILY ZERO/SPAN CHECK
N	- INVALID DATA	M	- MAINTENANCE
D	- INSTRUMENT DRIFT	P	- POWER FAILURE
C	- CALIBRATION	NA	- NOT APPLICABLE

OBJECTIVE LIMIT: **ALBERTA ENVIRONMENT:** 1-HR - PPB 24-HR 30 PPB



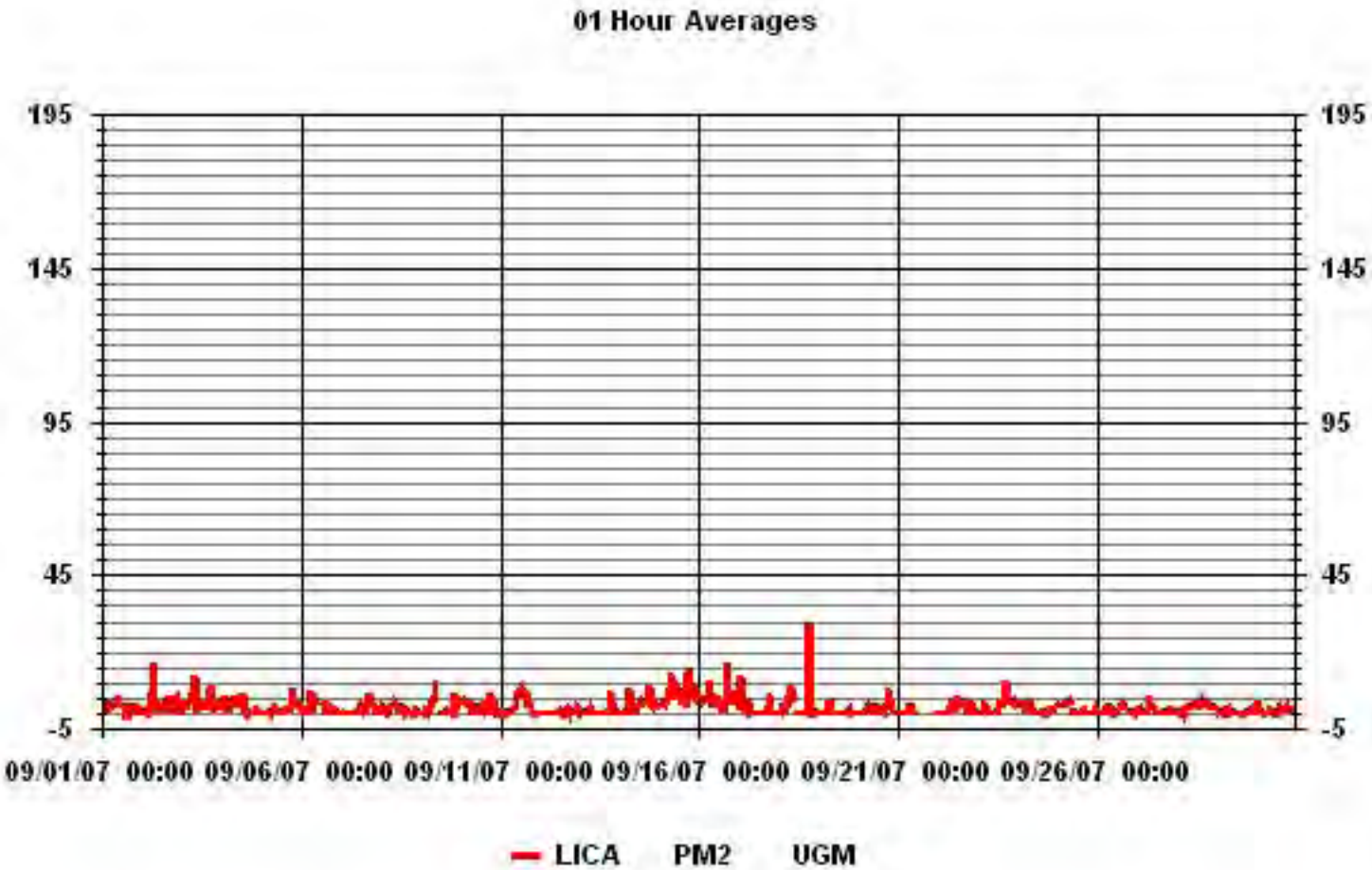
MONTHLY SUMMARY

NUMBER OF 1-HR EXCEEDENCES:	-					
NUMBER OF 24-HR EXCEEDENCES:	0			PROPOSED GUIDELINE		
NUMBER OF NON-ZERO READINGS:	492					
MAXIMUM 1-HR AVERAGE:	29.6	UG/M^3	@ HOUR(S)	19	ON DAY(S)	18
MAXIMUM 24-HR AVERAGE:	6.3	UG/M^3			ON DAY(S)	15

IZS CALIBRATION TIME:	0	HRS	OPERATIONAL TIME:	692	HRS
MONTHLY CALIBRATION TIME:	4	HRS	AMD OPERATION UPTIME:	96.1	%
STANDARD DEVIATION:	2.65		MONTHLY AVERAGE:	1.99	UG/M^3

Maxxam Analytics Inc

MOUNTAIN STANDARD TIME


01 Hour Averages
195
145
95
45
-5
09/01/07 00:00
09/06/07 00:00
09/11/07 00:00
09/16/07 00:00
09/21/07 00:00
09/26/07 00:00
LICA PM2 UGM

LICA
PM2 / WD Joint Frequency Distribution (Percent)

September 2007

Distribution By % Of Samples

Logger Id : 01
Site Name : LICA
Parameter : PM2
Units : UG/M3

Wind Parameter : WD
Instrument Height : 10 Meters

Direction

Limit	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Freq
< 30.0	2.03	1.74	2.03	3.05	4.79	5.81	9.15	2.47	3.92	6.97	11.77	14.97	10.46	10.17	7.26	3.34	100.00
< 60.0	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
< 80.0	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
< 120.0	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
< 240.0	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
>= 240.0	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Totals	2.03	1.74	2.03	3.05	4.79	5.81	9.15	2.47	3.92	6.97	11.77	14.97	10.46	10.17	7.26	3.34	

Calm : .00 %

Total # Operational Hours : 688

Distribution By Samples

Direction

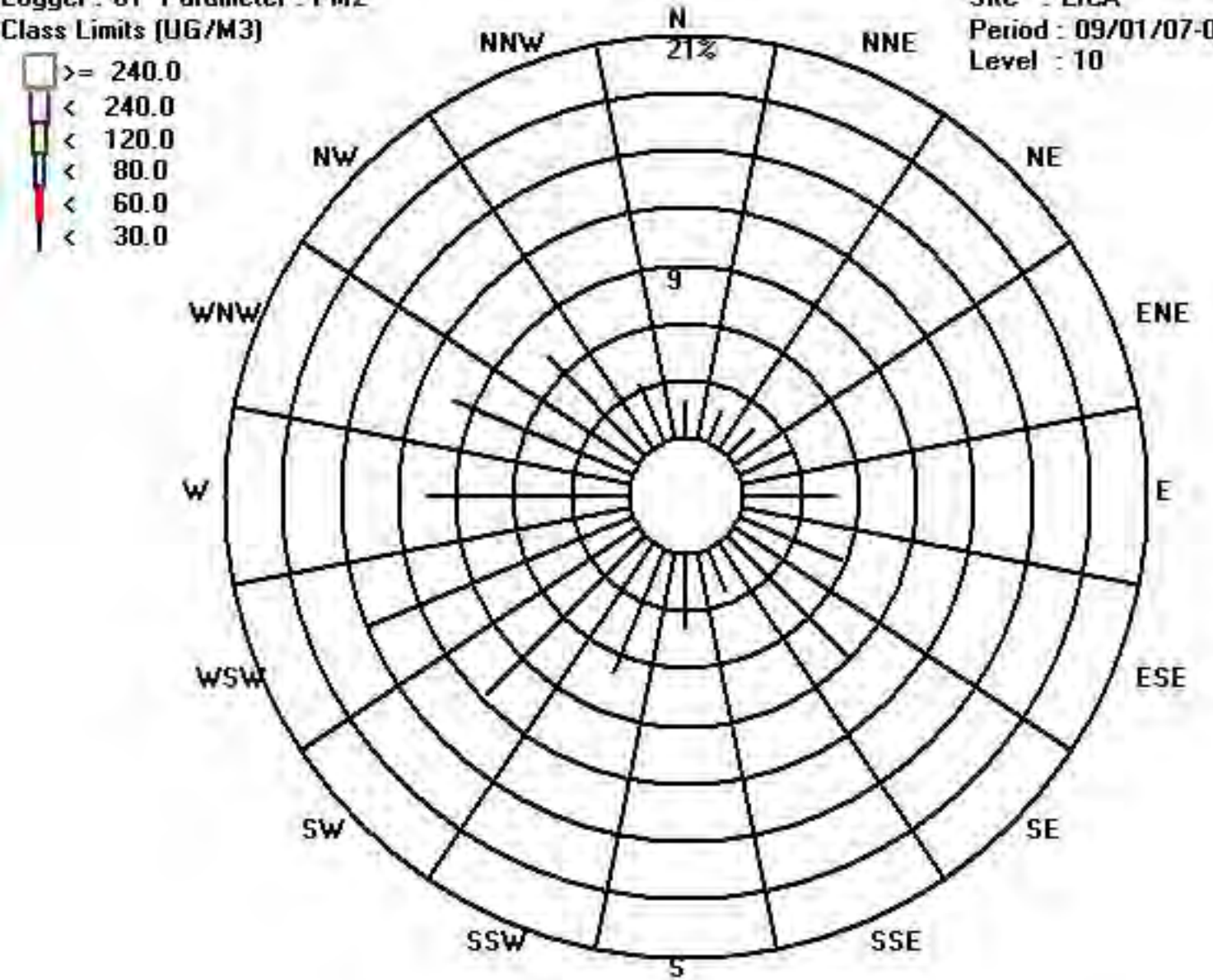
Limit	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Freq
< 30.0	14	12	14	21	33	40	63	17	27	48	81	103	72	70	50	23	688
< 60.0																	
< 80.0																	
< 120.0																	
< 240.0																	
>= 240.0																	
Totals	14	12	14	21	33	40	63	17	27	48	81	103	72	70	50	23	

Calm : .00 %

Total # Operational Hours : 688

Logger : 01 Parameter : PM2
Class Limits (UG/M3)

Site : LICA
Period : 09/01/07-09/30/07
Level : 10



LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - *COLD LAKE*

SEPTEMBER 2007

PARTICULATE MATTER 2.5 MAX instantaneous maximum in ug/m^3

HOUR START	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	DAILY	24-HOUR	
HOUR END	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	MAX.	AVG.	RDGS.
DAY																											
1	**D**	8.1	16.1	11.5	10.2	4.5	4.5	4.3	7.3	7.7	13	11	17.5	16.4	10.5	8	10.4	10.6	8.7	12.7	2	6.1	3.6	0.9	17.5	8.9	23
2	1.1	3.7	3.2	2	2.1	5.5	8.9	37.3	11.1	21.7	15.1	14.7	11.5	13.6	12.5	9.9	12	11.6	9.5	7.6	8.2	8.4	1.1	2.7	37.3	9.8	24
3	2.9	4.8	5	3.4	5.4	7.7	8.1	11.9	19	9	8	8.9	13.7	14.2	**D**	12.4	21.3	16	17.4	3.7	4.5	3.7	5.5	6.6	21.3	9.3	23
4	5.4	10.1	11.6	9.1	2.6	4.5	13.3	7.5	13.1	9.3	8.5	8.3	13.3	14.8	17	13.1	12.2	7.3	3.2	3.6	2	3.4	2.6	2.6	17	8.3	24
5	2.1	2.2	2.1	2.7	5.3	1	3.4	4.6	6.6	6.1	7.7	**D**	7.1	5.4	6.8	7.1	6.8	3.9	4.8	15	14.2	8.7	7.2	5.6	15	5.9	23
6	5.9	5.1	7.1	4.8	3.6	9	29.1	3.2	7.2	12.6	**N**	**N**	**N**	8.6	13.2	14	5.8	7.7	6	4.8	3.4	1.7	1	1	29.1	7.4	21
7	1.4	3.9	2.2	2.1	0.6	1.2	1.8	7.5	4.5	4.1	4.9	8.7	8.5	9.6	6.4	5.6	5.5	16.5	11.9	10.4	7.2	6.6	2.8	7.6	16.5	5.9	24
8	0.3	7.2	4	2.1	1.1	4.5	4.8	6.6	8.2	11.1	4.3	8.8	7.7	14.5	12.8	9.7	11.7	18.1	7.8	**D**	0	8.2	2.8	1.3	18.1	6.9	23
9	2.6	4	4.5	3.9	9.9	4.9	5.6	7.1	11.6	24.2	**D**	**D**	3.6	3.4	7	5.7	8	5.8	3.8	2.8	2.9	10.9	7.6	7.2	24.2	6.7	22
10	5.3	6	4.6	6.4	5.9	5.9	5.1	1	4.5	7.7	5.5	8.1	13.7	9.2	9.5	7.6	8.1	8	11.2	7	6	5.7	3.2	3.8	13.7	6.6	24
11	1.4	2.6	2.4	4	3.3	4.7	3.8	3.4	4.5	5.4	14	12.1	14.2	15.1	14.8	14.7	13.8	10.3	6.5	4.4	2.5	3.5	**D**	**D**	15.1	7.3	22
12	**D**	**D**	0.6	1.1	3.9	2.6	2.6	1.2	1	1	2.5	4.3	6.8	2.2	5.9	4.5	5.6	3.2	7	4.5	3.4	2.9	10	5.1	10	3.7	22
13	4.6	6.6	6.7	5.6	5.4	4.5	6.1	3.7	2.7	8.7	2.2	4.2	3.2	4.8	3.9	3.8	6.6	8.2	14.7	3.7	3.1	2.7	2.4	5.6	14.7	5.2	24
14	4.8	5	4.2	4.4	4.5	6.1	13.2	9.5	2.1	2.7	3.9	9.8	8.1	10.6	9.6	9.9	9.3	14.8	17.8	5.8	5.6	6.5	3.2	4.9	17.8	7.3	24
15	4.3	4.6	7.8	6.6	6	9.2	16.3	20.3	7.2	16.1	15	18.7	15.4	13.4	11.3	10.8	13.5	22.2	22.3	10.2	9.6	9.6	12.1	10.5	22.3	12.2	24
16	7.8	11	10.6	6.5	6.1	6.6	16.1	14.8	9.7	8.3	13.3	8.2	13	12.7	9.3	15.4	18.6	31.4	14.8	6.9	10.6	11.9	21.1	8	31.4	12.2	24
17	5.3	25.3	7.5	8.4	4.9	4.7	6.8	4.6	4.6	3.3	5.1	5.8	2.8	**D**	**D**	5.1	8.1	16.1	16.5	1.7	1	2	1.1	1.5	25.3	6.5	22
18	3.6	5.4	9.6	4	4.8	6.5	10.3	14.8	8.3	**D**	**D**	2.5	1.5	2.8	1.9	2.4	1.5	1.1	**68.5**	5.6	2	3.2	2.3	2	68.5	7.5	22
19	5.4	3.8	4.4	2.6	3.9	4	10.6	9.4	6.3	2.5	1.1	**D**	3.4	2.9	2	3.3	1.2	4	4.4	0.8	5.5	1.2	1.5	1.9	10.6	3.7	23
20	2.5	2.5	2.1	4.9	4.3	5.1	5	4.8	1.5	2.5	5	4.6	4.9	4.5	5.4	3.9	5.4	5.6	19.2	8.4	13	5.3	0.9	1.7	19.2	5.1	24
21	0.1	0	2	2	1.9	2.9	4.7	7.3	4.2	2.9	3.9	**C**	**C**	**C**	**D**	**D**	**D**	**D**	**D**	**D**	**D**	**D**	**D**	0	7.3	2.7	15
22	0	0	0	**D**	1.6	0.9	3.6	4.7	5.1	3.1	4.5	4.4	8.4	6.6	5.9	5	7.3	1.2	2.8	2.8	11.4	4.3	2.3	3.9	11.4	3.9	23
23	1.2	3.6	5.4	6.4	5.6	5.3	3.6	2.2	4.4	0	1.2	2.6	2.5	4.3	8.1	7.1	10	30.3	13.2	6.1	7.3	7	6.7	5.4	30.3	6.2	24
24	6	5.9	5.7	5	4.9	2.6	9.1	8.8	5	1.1	0.5	1.7	2.2	0.1	3.1	2.4	2.2	3.6	3.6	1.9	2.3	2.9	2.8	4.4	9.1	3.7	24
25	4.2	4.2	4.4	4.2	6	4.4	6.7	6.2	6.1	**C**	2.7	2.2	0	0	0	5.8	5.6	2.9	1.1	1.7	0.4	0	1	3.7	6.7	3.2	24
26	2.1	2	0.3	1.6	4.4	4.7	3.4	3.8	4.4	2.1	2.8	1.6	4.3	4.1	9.3	7.5	4.3	5	4.2	1.8	2.9	2	1.7	2.2	9.3	3.4	24
27	2	3.7	8	5.3	5	3.3	6.6	18.1	6.2	5.1	5.5	3.3	0	2.7	1.6	2.4	2.7	2.3	2.3	1.9	2.3	3.1	2.4	2.1	18.1	4.1	24
28	0.9	2.2	1.6	3.6	1.6	3.3	2.8	4.8	4.5	6	5.6	5.3	6.8	4.5	5.4	8.4	5.5	4.9	6	5.4	3.7	4.5	5.2	5	8.4	4.5	24
29	3.8	2.6	2.8	3.2	3.1	3.1	3.7	4.5	1.5	4	2	4	2.1	2.3	1.9	2	1.8	2.1	1.5	2.8	3.9	5.8	4.3	4.1	5.8	3.0	24
30	6.6	7.8	6.7	5.7	5.5	3.4	4.3	5	3.6	2.8	2	2.7	2	3.1	6.1	4.5	4	3.4	4.9	3.1	2.9	2.8	2.3	2.8	7.8	4.1	24
HOURLY MAX	8	25	16	12	10	9	29	37	19	24	15	19	18	16	17	15	21	31	69	15	14	12	21	11			
HOURLY AVG	3.3	5.3	5.1	4.6	4.4	4.6	7.5	8.1	6.2	6.8	5.9	6.7	7.1	7.4	7.5	7.3	7.9	9.6	10.9	5.3	5.0	5.0	4.3	3.9			

STATUS FLAG CODES

S	- OUT OF SERVICE	IZS	- IZS - DAILY ZERO/SPAN CHECK
N	- INVALID DATA	M	- MAINTENANCE
D	- INSTRUMENT DRIFT	P	- POWER FAILURE
C	- CALIBRATION	NA	- NOT APPLICABLE

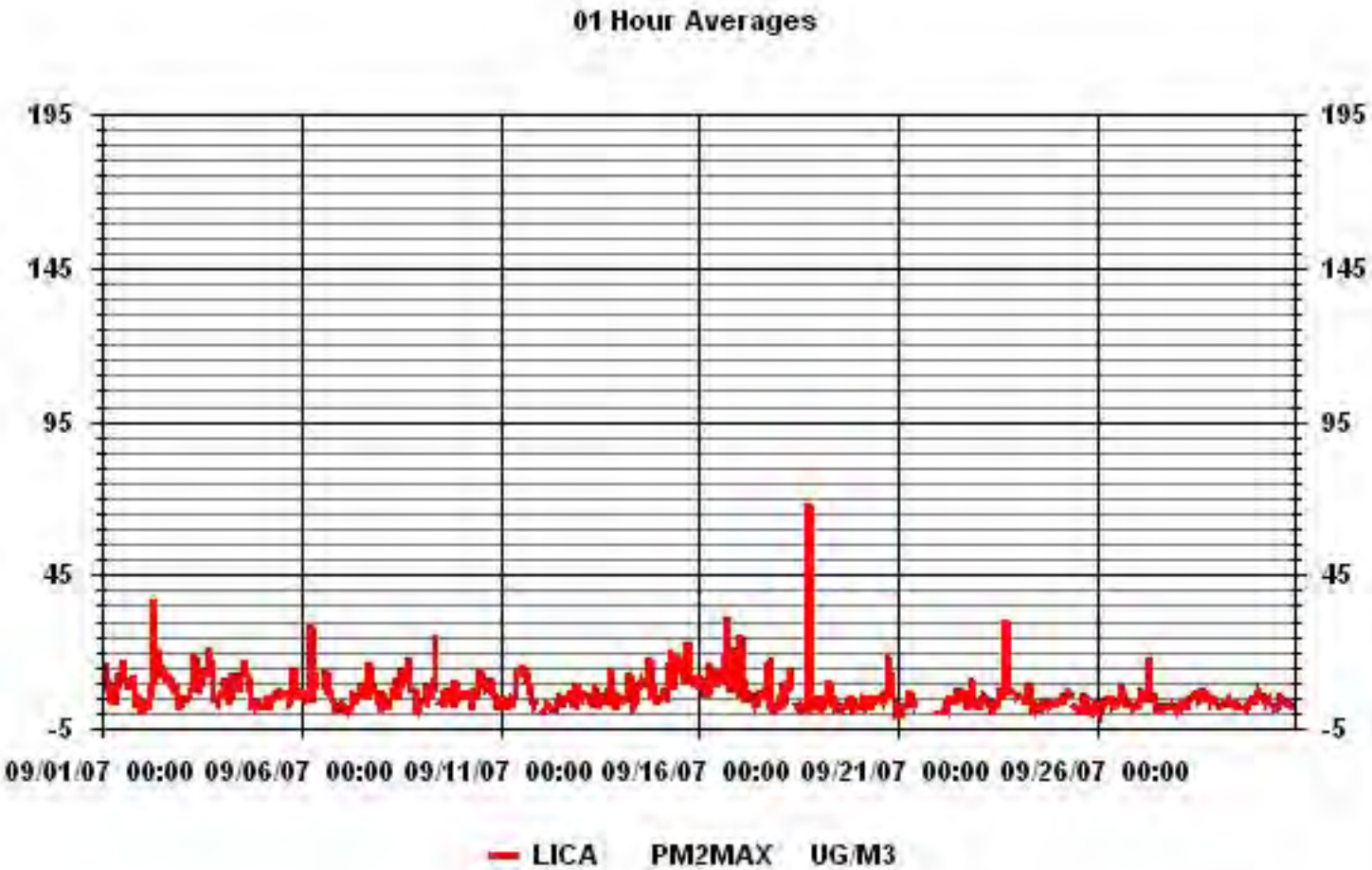
MONTHLY SUMMARY

NUMBER OF NON-ZERO READINGS:	676					
MAXIMUM INSTANTANEOUS VALUE:	68.5	UG/M^3	@ HOUR(S)	19	ON DAY(S)	18

IZS CALIBRATION TIME:	0	HRS	OPERATIONAL TIME:	692	HRS
MONTHLY CALIBRATION TIME:	4	HRS			
STANDARD DEVIATION:	5.33				

MOUNTAIN STANDARD TIME

Maxxam Analytics Inc


01 Hour Averages
195
145
95
45
-5
09/01/07 00:00
09/06/07 00:00
09/11/07 00:00
09/16/07 00:00
09/21/07 00:00
09/26/07 00:00
LICA PM2MAX UG/M3

NO_2

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - *COLD LAKE*

SEPTEMBER 2007

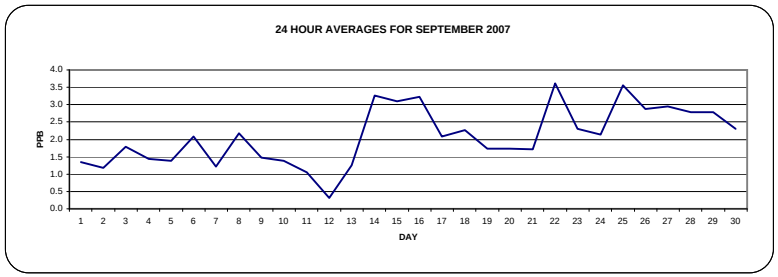
NITROGEN DIOXIDE hourly averages in ppb

HOUR START	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	DAILY	24-HOUR	
HOUR END	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	MAX.	AVG.	RDGS.
DAY																											
1	1	0	1	1	3	4	3	2	1	2	1	0	0	0	**IZS**	0	0	1	1	2	2	2	2	2	4	1.3	24
2	1	2	1	1	1	1	1	2	1	1	1	0	0	**IZS**	1	1	1	0	1	1	3	2	2	2	3	1.2	24
3	2	1	1	0	0	0	1	3	2	2	3	1	**IZS**	1	1	1	0	1	2	6	5	3	3	2	6	1.8	24
4	1	1	1	1	4	7	4	3	1	0	1	**IZS**	1	0	1	0	0	0	0	1	1	1	3	1	7	1.4	24
5	1	1	2	2	2	2	2	2	1	1	**IZS**	0	0	0	0	0	0	0	1	3	5	2	2	3	5	1.4	24
6	4	4	3	3	4	4	4	2	1	**IZS**	2	2	1	1	1	2	1	2	1	2	3	1	0	0	4	2.1	24
7	0	0	1	0	0	0	0	1	**IZS**	1	1	1	1	1	1	1	1	1	2	3	4	2	2	4	4	1.2	24
8	2	3	7	4	2	3	4	**IZS**	2	2	1	1	1	5	3	1	0	0	1	3	1	2	1	1	7	2.2	24
9	1	1	3	2	4	6	**IZS**	2	1	1	0	0	0	0	0	1	1	1	2	3	1	1	1	2	6	1.5	24
10	1	1	1	1	1	**IZS**	2	1	0	0	0	0	0	0	0	1	1	5	6	5	4	2	0	0	6	1.4	24
11	0	0	0	0	**IZS**	2	2	2	1	1	1	2	2	2	1	0	0	1	1	2	3	0	0	1	3	1.0	24
12	1	0	0	**IZS**	1	0	1	1	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	1	0.3	24
13	0	0	**IZS**	0	0	2	3	2	1	1	1	0	0	0	0	1	1	1	4	5	3	2	1	1	5	1.3	24
14	1	**IZS**	2	3	4	6	8	6	2	2	1	2	2	2	1	2	2	2	5	4	5	5	4	4	8	3.3	24
15	**IZS**	3	3	3	3	3	3	6	6	3	2	2	1	1	1	1	1	2	3	5	7	4	5	**IZS**	7	3.1	24
16	2	2	2	2	3	4	4	4	4	3	2	1	1	1	1	1	1	2	5	9	7	9	**IZS**	4	9	3.2	24
17	3	2	0	2	2	3	2	5	3	2	1	2	1	1	1	0	0	1	4	5	3	**IZS**	3	2	5	2.1	24
18	2	2	5	6	5	5	8	7	3	0	0	0	0	0	0	0	0	0	4	1	**IZS**	1	2	1	8	2.3	24
19	2	2	0	1	3	4	7	3	2	1	0	0	0	0	0	0	0	1	5	**IZS**	5	2	1	1	7	1.7	24
20	2	2	2	2	2	2	4	2	1	1	1	1	2	1	1	1	1	1	**IZS**	4	3	1	2	1	4	1.7	24
21	0	0	1	1	2	2	3	2	0	**C**	**C**	**C**	**C**	**IZS**	1	1	1	**IZS**	5	4	3	2	1	2	5	1.7	24
22	1	2	5	2	2	3	2	5	2	1	3	4	5	4	4	5	**IZS**	1	6	5	5	5	6	5	6	**3.6**	24
23	4	5	3	3	4	2	3	2	2	1	1	0	0	1	1	**IZS**	1	1	2	2	2	3	6	4	6	2.3	24
24	3	2	1	2	3	4	5	5	4	1	1	1	1	1	**IZS**	1	1	1	2	2	2	2	2	2	5	2.1	24
25	2	3	3	3	3	5	7	6	5	**C**	**C**	**C**	**C**	1	1	1	2	4	4	5	5	4	3	4	7	**3.6**	24
26	4	2	2	2	4	6	6	5	5	2	1	1	**IZS**	1	1	1	1	1	2	2	4	4	6	3	6	2.9	24
27	3	3	7	5	4	3	7	6	4	5	4	**IZS**	1	1	1	2	2	2	2	1	2	1	1	1	7	3.0	24
28	1	1	1	1	2	3	2	3	3	2	**IZS**	3	3	2	3	3	4	4	3	4	4	7	3	2	7	2.8	24
29	2	0	1	1	1	3	3	2	2	**IZS**	1	1	0	0	0	0	0	2	6	8	**10**	8	6	7	10	2.8	24
30	4	6	6	5	2	2	2	2	**IZS**	1	1	0	0	0	1	1	1	4	5	3	2	2	2	1	6	2.3	24
HOURLY MAX	4	6	7	6	5	7	8	7	6	5	4	4	5	5	4	5	4	5	6	9	10	9	6	7			
HOURLY AVG	1.8	1.8	2.2	2.0	2.4	3.1	3.6	3.2	2.1	1.4	1.2	1.0	0.9	1.0	1.0	1.0	0.8	1.4	2.9	3.4	3.6	2.8	2.4	2.2			

STATUS FLAG CODES

S	- OUT OF SERVICE	IZS	- IZS - DAILY ZERO/SPAN CHECK
N	- INVALID DATA	M	- MAINTENANCE
D	- INSTRUMENT DRIFT	P	- POWER FAILURE
C	- CALIBRATION	NA	- NOT APPLICABLE

OBJECTIVE LIMIT: **ALBERTA ENVIRONMENT:** 1-HR 212 PPB 24-HR 106 PPB



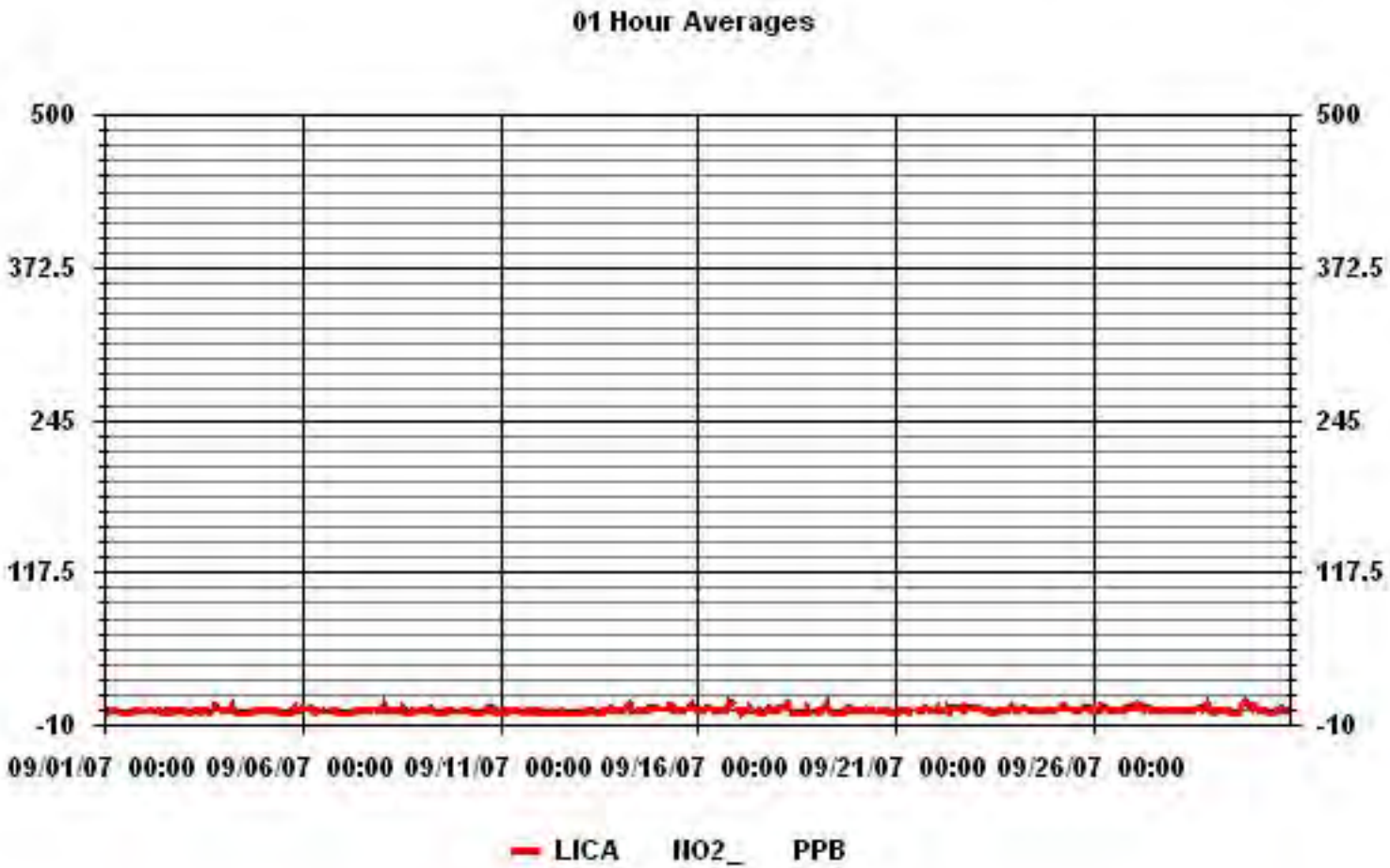
MONTHLY SUMMARY

NUMBER OF 1-HR EXCEEDENCES:	0					
NUMBER OF 24-HR EXCEEDENCES:	0					
NUMBER OF NON-ZERO READINGS:	565					
MAXIMUM 1-HR AVERAGE:	10	PPB	@ HOUR(S)	21	ON DAY(S)	29
MAXIMUM 24-HR AVERAGE:	3.6	PPB			ON DAY(S)	22,25

IZS CALIBRATION TIME:	31	HRS	OPERATIONAL TIME:	720	HRS
MONTHLY CALIBRATION TIME:	8	HRS	AMD OPERATION UPTIME:	100.0	%
STANDARD DEVIATION:	1.81		MONTHLY AVERAGE:	2.08	PPB

Maxxam Analytics Inc

MOUNTAIN STANDARD TIME


01 Hour Averages
500
372.5
245
117.5
-10
09/01/07 00:00
09/06/07 00:00
09/11/07 00:00
09/16/07 00:00
09/21/07 00:00
09/26/07 00:00
LICA NO2_ PPB

LICA
NO2_ / WD Joint Frequency Distribution (Percent)

September 2007

Distribution By % Of Samples

Logger Id : 01
Site Name : LICA
Parameter : NO2_
Units : PPB

Wind Parameter : WD
Instrument Height : 10 Meters

Direction

Limit	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Freq
< 50	2.05	1.90	1.90	2.93	4.69	6.16	8.81	2.64	4.11	6.75	12.04	15.12	9.98	9.83	7.92	3.08	100.00
< 110	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
< 210	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
>= 210	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Totals	2.05	1.90	1.90	2.93	4.69	6.16	8.81	2.64	4.11	6.75	12.04	15.12	9.98	9.83	7.92	3.08	

Calm : .00 %

Total # Operational Hours : 681

Distribution By Samples

Direction

Limit	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Freq
< 50	14	13	13	20	32	42	60	18	28	46	82	103	68	67	54	21	681
< 110																	
< 210																	
>= 210																	
Totals	14	13	13	20	32	42	60	18	28	46	82	103	68	67	54	21	

Calm : .00 %

Total # Operational Hours : 681

Logger : 01 Parameter : NO2_

Class Limits (PPB)

>= 210

< 210

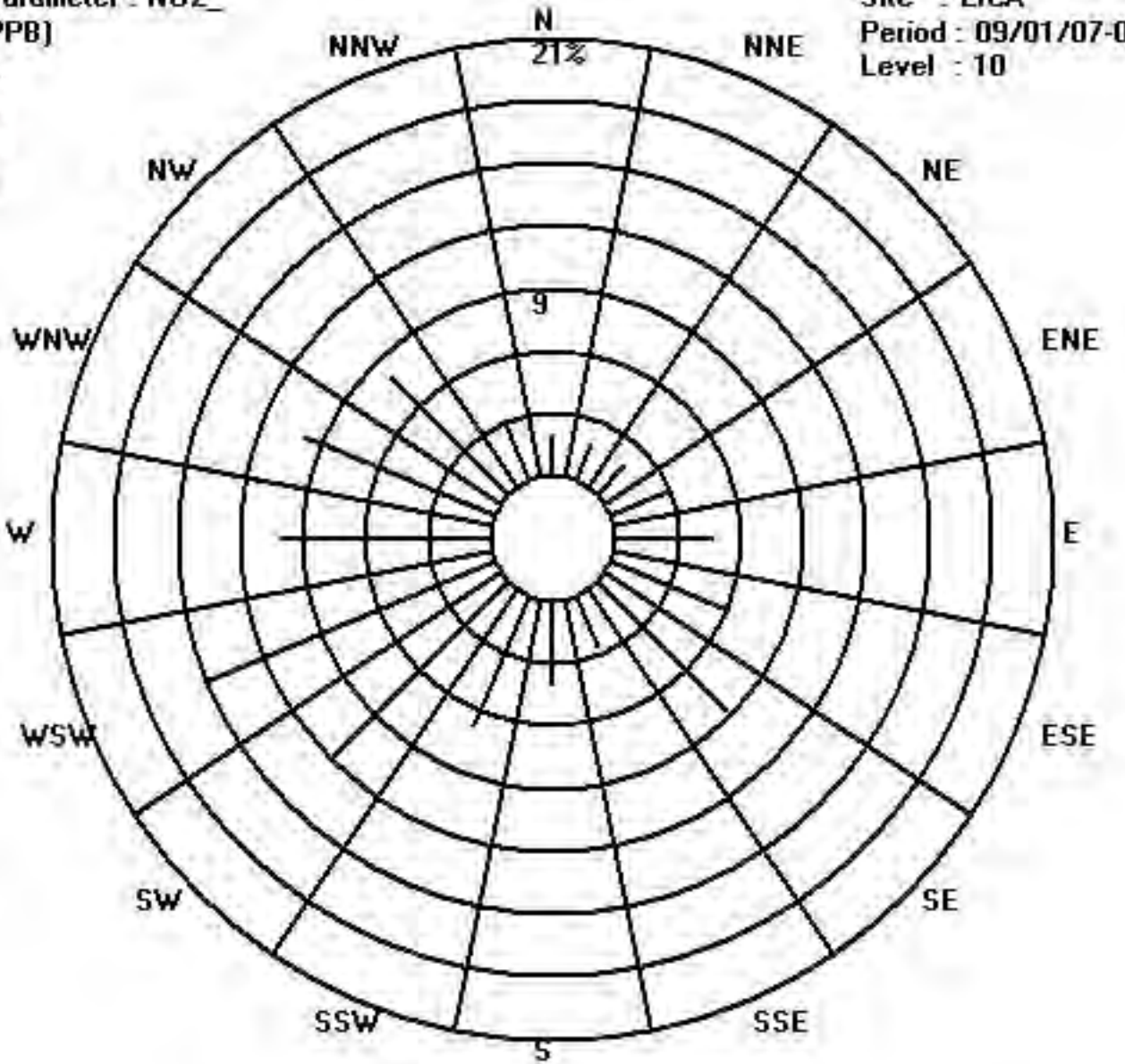
< 110

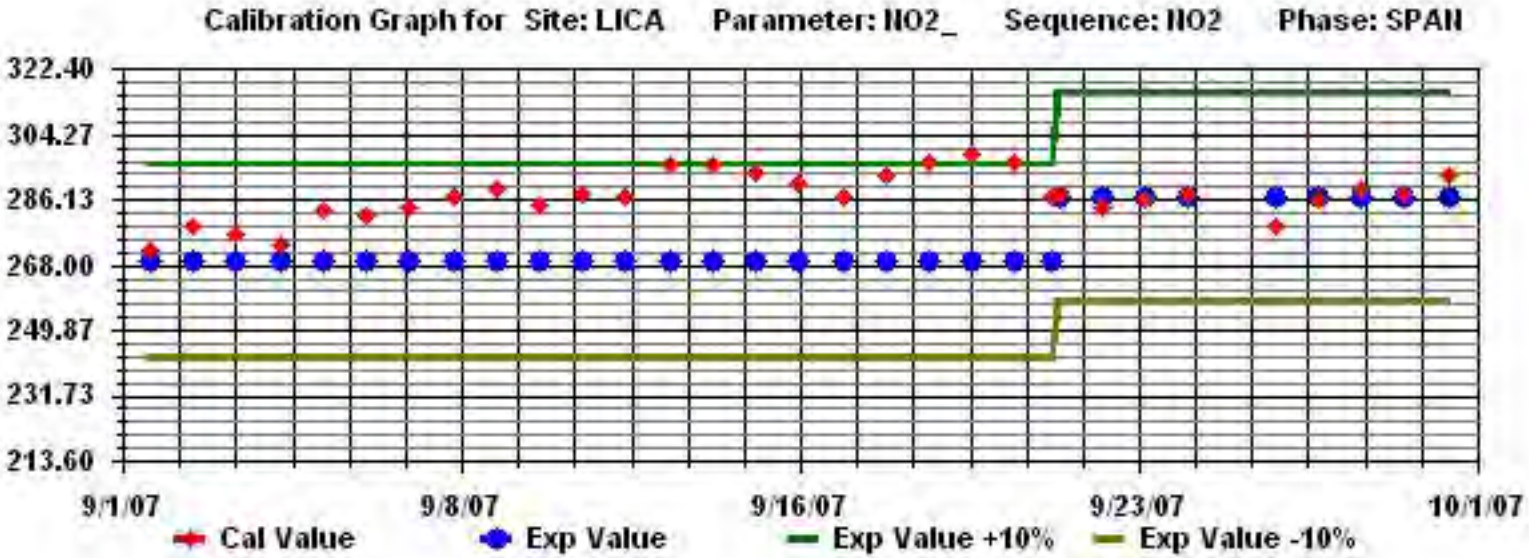
< 50

Site : LICA

Period : 09/01/07-09/30/07

Level : 10




Calibration Graph for Site: LICA Parameter: NO2_ Sequence: NO2 Phase: SPAN
322.40
304.27
286.13
268.00
249.87
231.73
213.60
9/1/07
9/8/07
9/16/07
9/23/07
10/1/07
Cal Value
Exp Value
Exp Value +10%
Exp Value -10%

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - *COLD LAKE*

SEPTEMBER 2007

NITROGEN DIOXIDE MAX instantaneous maximum in ppb

HOUR START	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	DAILY	24-HOUR	
HOUR END	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	MAX.	AVG.	RDGS.
DAY																											
1	1	1	1	2	4	6	6	2	2	2	3	1	1	0	**IZS**	1	0	1	3	5	3	4	3	3	6	2.4	24
2	3	4	2	2	2	2	2	3	4	3	2	2	3	**IZS**	2	3	1	1	4	10	10	8	3	3	10	3.4	24
3	3	5	2	1	1	1	2	5	3	5	6	3	**IZS**	2	3	1	3	1	6	11	7	5	4	3	11	3.6	24
4	3	4	4	2	9	13	9	7	3	2	1	**IZS**	1	6	6	1	0	1	1	1	5	4	6	4	13	4.0	24
5	2	2	3	2	2	3	4	2	1	1	**IZS**	2	1	0	1	1	1	1	3	7	10	3	4	4	10	2.6	24
6	6	6	4	4	7	7	7	3	6	**IZS**	4	4	2	3	3	4	7	9	2	5	5	3	1	1	9	4.5	24
7	3	1	3	2	0	0	1	15	**IZS**	2	1	2	1	2	1	1	3	2	4	7	5	3	3	10	15	3.1	24
8	5	6	10	9	4	5	5	**IZS**	4	3	2	1	2	26	9	4	4	2	2	4	8	3	2	2	26	5.3	24
9	2	2	6	3	8	8	**IZS**	5	2	1	1	2	3	1	2	2	2	3	3	4	2	3	2	3	8	3.0	24
10	1	1	1	1	2	**IZS**	4	2	1	0	1	1	1	1	2	3	5	11	9	9	7	5	1	0	11	3.0	24
11	0	0	0	0	**IZS**	6	6	8	2	2	2	3	3	3	3	1	1	2	2	18	27	1	1	1	27	4.0	24
12	2	0	1	**IZS**	2	1	2	2	2	4	3	1	8	4	6	0	0	1	0	3	0	0	0	0	8	1.8	24
13	0	0	**IZS**	0	0	4	5	4	2	4	3	3	1	1	1	13	2	1	7	12	5	3	2	2	13	3.3	24
14	1	**IZS**	3	4	16	8	11	15	3	2	2	5	3	3	2	2	3	4	17	6	7	7	5	6	17	5.9	24
15	**IZS**	5	4	4	4	5	5	7	8	4	5	8	2	3	3	1	3	8	6	15	12	6	8	**IZS**	15	5.7	24
16	4	4	3	3	5	7	6	6	8	4	4	2	2	2	1	2	4	4	15	18	12	11	**IZS**	6	18	5.8	24
17	5	4	1	3	3	10	4	7	4	3	2	2	4	1	2	0	1	8	12	8	6	**IZS**	8	4	12	4.4	24
18	3	3	9	9	**33**	7	18	9	6	1	2	1	0	1	0	0	0	1	23	11	**IZS**	2	3	2	33	6.3	24
19	5	3	1	1	5	7	9	4	3	5	2	0	4	1	3	1	1	2	15	**IZS**	10	3	2	2	15	3.9	24
20	2	2	2	2	12	4	7	4	5	2	2	2	4	2	2	2	2	4	**IZS**	17	5	4	4	2	17	4.1	24
21	1	0	1	1	4	3	4	4	2	**C**	**C**	**C**	**C**	**IZS**	2	4	4	**IZS**	23	8	6	4	2	7	23	4.4	0
22	2	4	10	5	4	6	4	11	8	2	7	5	10	7	6	13	**IZS**	4	10	9	9	9	7	7	13	6.9	24
23	9	9	5	4	4	4	4	3	3	2	1	1	3	3	3	**IZS**	3	3	3	14	9	9	15	6	15	5.2	24
24	5	2	3	4	5	6	15	8	8	2	5	1	2	1	**IZS**	5	1	4	5	5	3	3	3	2	15	4.3	24
25	3	3	3	3	5	8	9	8	9	**C**	**C**	**C**	**C**	**C**	2	2	4	5	20	27	10	6	5	6	27	7.3	24
26	6	3	3	3	7	9	8	6	10	3	2	1	**IZS**	3	1	2	1	2	3	3	9	11	9	5	11	4.8	24
27	6	7	9	6	24	11	17	17	16	25	11	**IZS**	2	14	4	5	5	5	5	4	3	3	2	2	25	8.8	24
28	1	1	2	3	3	5	5	8	7	11	**IZS**	4	4	3	5	6	9	5	4	5	5	14	4	3	14	5.1	24
29	2	1	2	2	1	4	4	2	2	**IZS**	1	1	1	0	0	1	1	5	8	11	12	12	13	15	15	4.4	24
30	7	9	9	7	7	4	3	3	**IZS**	3	6	3	1	2	5	4	4	9	9	6	8	5	2	2	9	5.1	24
HOURLY MAX	9	9	10	9	33	13	18	17	16	25	11	8	10	26	9	13	9	11	23	27	27	14	15	15			
HOURLY AVG	3.2	3.2	3.7	3.2	6.3	5.7	6.4	6.2	4.8	3.8	3.1	2.3	2.7	3.5	2.9	2.9	2.6	3.8	7.7	9.1	7.6	5.3	4.3	3.9			

STATUS FLAG CODES

S	- OUT OF SERVICE	IZS	- IZS - DAILY ZERO/SPAN CHECK
N	- INVALID DATA	M	- MAINTENANCE
D	- INSTRUMENT DRIFT	P	- POWER FAILURE
C	- CALIBRATION	NA	- NOT APPLICABLE

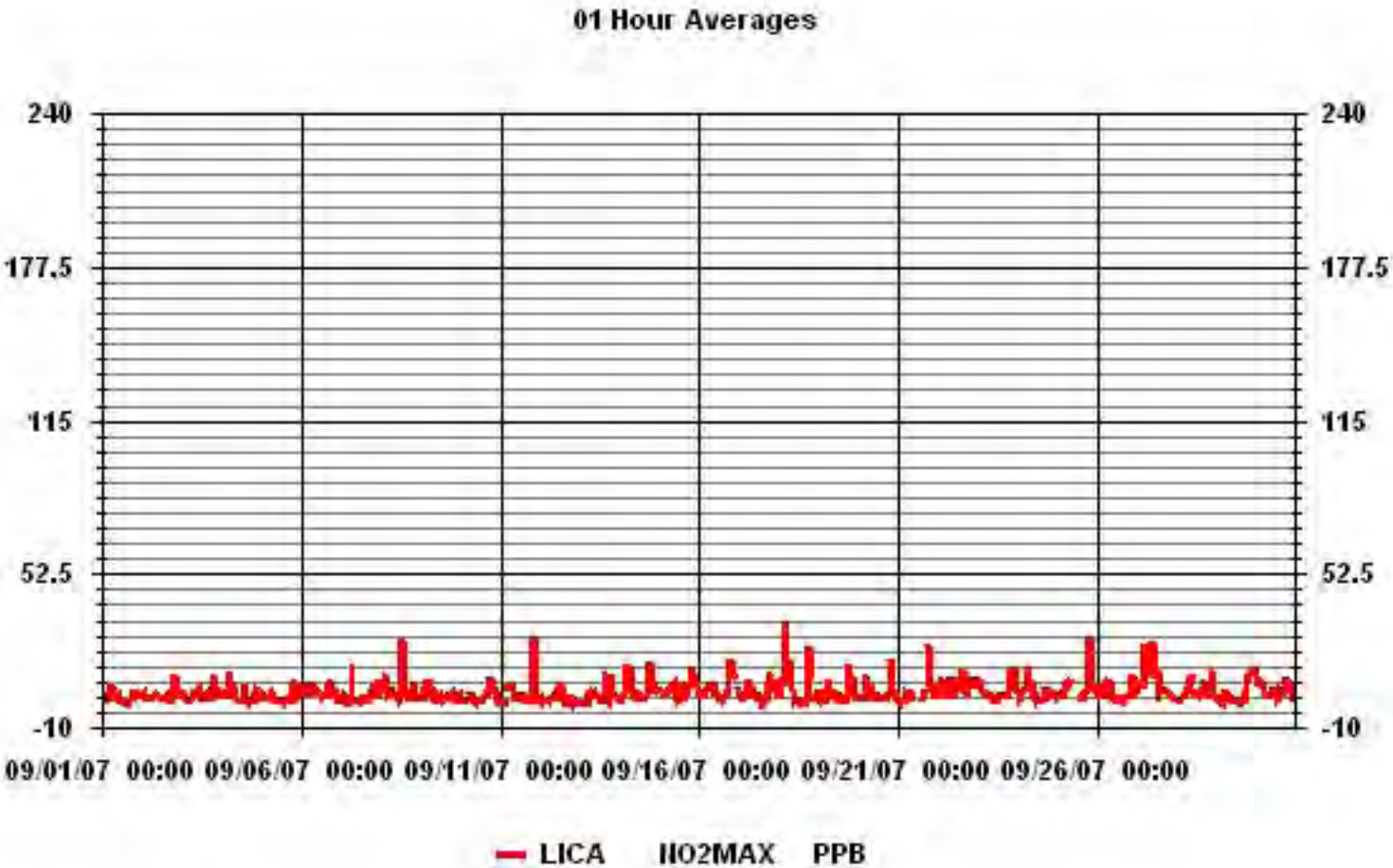
MONTHLY SUMMARY

NUMBER OF NON-ZERO READINGS:	647					
MAXIMUM INSTANTANEOUS VALUE:	33	PPB	@ HOUR(S)	5	ON DAY(S)	18

IZS CALIBRATION TIME:	31	HRS	OPERATIONAL TIME:	696	HRS
MONTHLY CALIBRATION TIME:	9	HRS			
STANDARD DEVIATION:	4.23				

MOUNTAIN STANDARD TIME

Maxxam Analytics Inc


01 Hour Averages
240
177.5
115
52.5
-10
09/01/07 00:00
09/06/07 00:00
09/11/07 00:00
09/16/07 00:00
09/21/07 00:00
09/26/07 00:00
LICA NO2MAX PPB

NO

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - *COLD LAKE*

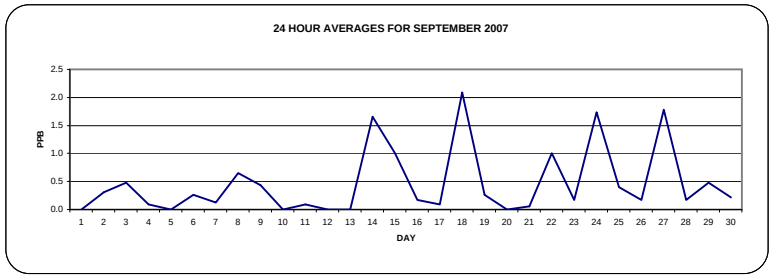
SEPTEMBER 2007

NITRIC OXIDE hourly averages in ppb

HOUR START	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	DAILY	24-HOUR	
HOUR END	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	MAX.	AVG.	RDGS.
DAY																											
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**IZS**	0	0	0	0	0	0	0	0	0	0	0.0	24
2	0	0	0	0	0	2	3	2	0	0	0	0	0	**IZS**	0	0	0	0	0	0	0	0	0	0	3	0.3	24
3	0	1	0	0	0	0	0	3	1	0	0	0	**IZS**	0	0	0	0	0	0	0	2	2	2	0	3	0.5	24
4	0	0	0	0	1	1	0	0	0	0	0	**IZS**	0	0	0	0	0	0	0	0	0	0	0	0	1	0.1	24
5	0	0	0	0	0	0	0	0	0	0	**IZS**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24
6	0	0	0	0	0	2	4	0	0	**IZS**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0.3	24
7	0	0	0	0	0	0	0	3	**IZS**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0.1	24
8	0	0	0	0	0	0	1	**IZS**	0	0	0	0	0	3	1	0	0	0	0	1	3	3	2	1	3	0.7	24
9	2	1	1	3	2	0	**IZS**	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0.4	24
10	0	0	0	0	0	**IZS**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24
11	0	0	0	0	**IZS**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2	0.1	24
12	0	0	0	**IZS**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	24
13	0	0	**IZS**	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
14	0	**IZS**	0	0	6	12	16	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	1.7	24
15	**IZS**	0	0	0	1	7	6	4	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	**IZS**	7	1.0	24
16	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	**IZS**	0	2	0.2	24
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**IZS**	2	0	2	0.1	24
18	0	0	0	0	4	3	**23**	11	3	0	0	0	0	0	0	0	0	0	4	0	**IZS**	0	0	0	23	**2.1**	24
19	0	0	0	0	0	0	3	2	1	0	0	0	0	0	0	0	0	0	0	**IZS**	0	0	0	0	3	0.3	24
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**IZS**	0	0	0	0	0	0	0.0	24
21	0	0	0	0	0	0	0	0	0	**C**	**C**	**C**	**C**	**IZS**	0	0	0	**IZS**	1	0	0	0	0	0	1	0.1	24
22	0	0	0	0	0	1	0	4	1	0	1	1	3	2	2	2	**IZS**	0	0	1	2	2	1	0	4	1.0	24
23	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	**IZS**	0	0	0	0	0	1	1	1	1	0.2	24
24	0	0	0	0	2	4	15	14	4	1	0	0	0	0	**IZS**	0	0	0	0	0	0	0	0	0	15	1.7	24
25	0	0	0	0	0	0	0	2	2	**C**	**C**	**C**	**C**	0	0	0	0	0	1	2	0	0	1	0	2	0.4	24
26	0	0	0	1	1	1	0	0	1	0	0	0	**IZS**	0	0	0	0	0	0	0	0	0	0	0	1	0.2	24
27	0	0	0	0	3	5	14	7	3	4	4	**IZS**	0	1	0	0	0	0	0	0	0	0	0	0	14	1.8	24
28	0	0	0	0	0	0	0	1	1	0	**IZS**	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0.2	24
29	0	0	0	0	0	0	0	0	0	**IZS**	0	0	0	0	0	0	0	0	0	1	2	1	1	6	6	0.5	24
30	0	2	2	1	0	0	0	0	**IZS**	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0.2	24
HOURLY MAX	2	2	2	3	6	12	23	14	4	4	4	1	3	3	2	2	0	0	4	2	3	3	2	6			
HOURLY AVG	0.1	0.2	0.1	0.2	0.7	1.3	3.0	2.0	0.7	0.2	0.2	0.1	0.2	0.2	0.1	0.1	0.0	0.0	0.2	0.2	0.4	0.3	0.3	0.3			

STATUS FLAG CODES

S	- OUT OF SERVICE	IZS	- IZS - DAILY ZERO/SPAN CHECK
N	- INVALID DATA	M	- MAINTENANCE
D	- INSTRUMENT DRIFT	P	- POWER FAILURE
C	- CALIBRATION	NA	- NOT APPLICABLE



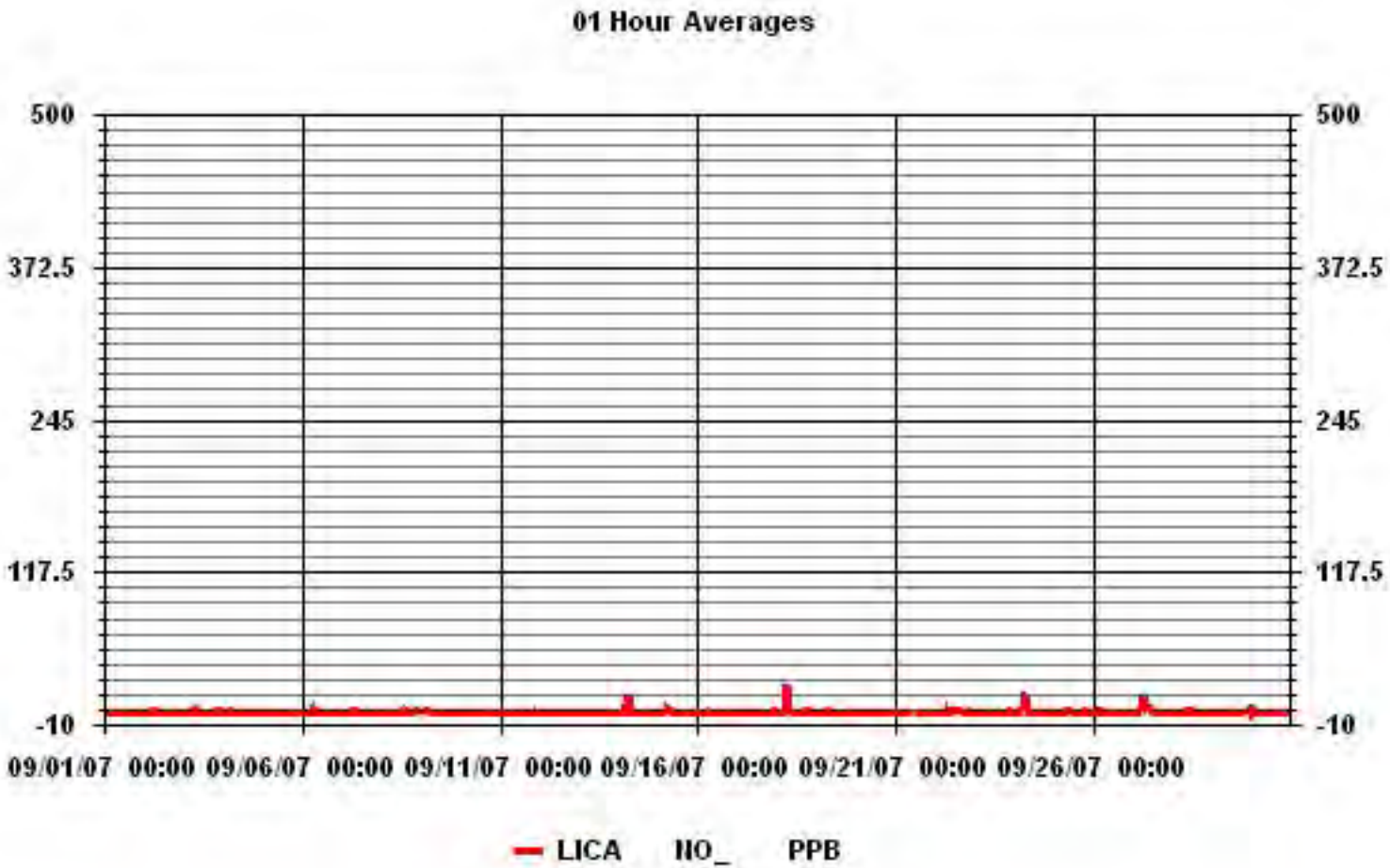
MONTHLY SUMMARY

NUMBER OF NON-ZERO READINGS:	105					
MAXIMUM 1-HR AVERAGE:	23	PPB	@ HOUR(S)	7	ON DAY(S)	18
MAXIMUM 24-HR AVERAGE:	2.1	PPB			ON DAY(S)	18

IZS CALIBRATION TIME:	31	HRS	OPERATIONAL TIME:	720	HRS
MONTHLY CALIBRATION TIME:	8	HRS	AMD OPERATION UPTIME:	100.0	%
STANDARD DEVIATION:	1.79		MONTHLY AVERAGE:	0.47	PPB

MOUNTAIN STANDARD TIME

Maxxam Analytics Inc


01 Hour Averages
500
372.5
245
117.5
-10
09/01/07 00:00
09/06/07 00:00
09/11/07 00:00
09/16/07 00:00
09/21/07 00:00
09/26/07 00:00
LICA NO_ PPB

LICA
NO_ / WD Joint Frequency Distribution (Percent)

September 2007

Distribution By % Of Samples

Logger Id : 01
Site Name : LICA
Parameter : NO_
Units : PPB

Wind Parameter : WD
Instrument Height : 10 Meters

Direction

Limit	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Freq
< 50	2.05	1.90	1.90	2.93	4.69	6.16	8.81	2.64	4.11	6.75	12.04	15.12	9.98	9.83	7.92	3.08	100.00
< 110	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
< 210	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
>= 210	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Totals	2.05	1.90	1.90	2.93	4.69	6.16	8.81	2.64	4.11	6.75	12.04	15.12	9.98	9.83	7.92	3.08	

Calm : .00 %

Total # Operational Hours : 681

Distribution By Samples

Direction

Limit	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Freq
< 50	14	13	13	20	32	42	60	18	28	46	82	103	68	67	54	21	681
< 110																	
< 210																	
>= 210																	
Totals	14	13	13	20	32	42	60	18	28	46	82	103	68	67	54	21	

Calm : .00 %

Total # Operational Hours : 681

Logger : 01 Parameter : NO_

Class Limits (PPB)

>= 210

< 210

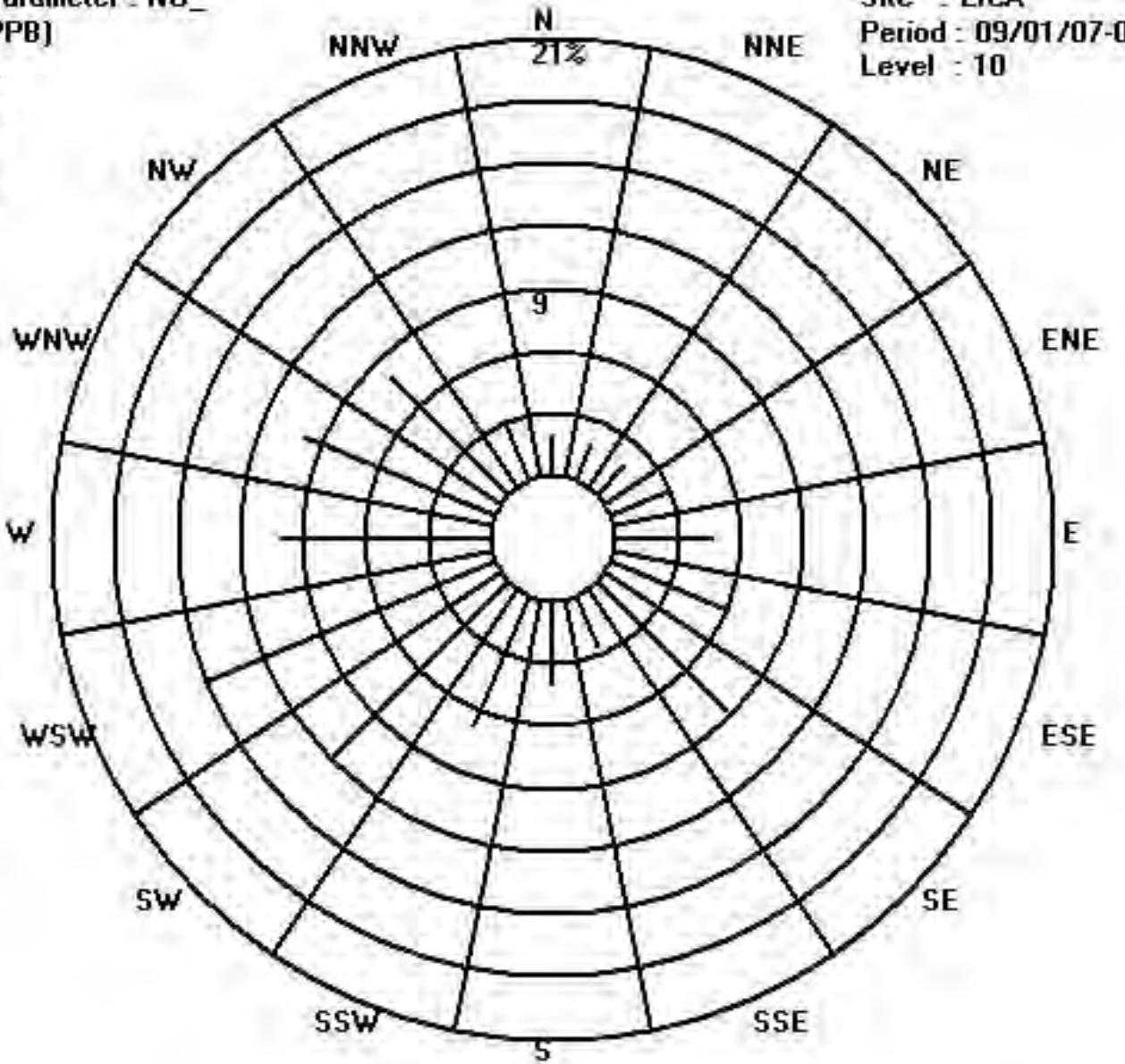
< 110

< 50

Site : LICA

Period : 09/01/07-09/30/07

Level : 10



LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - *COLD LAKE*

SEPTEMBER 2007

NITRIC OXIDE MAX instantaneous maximum in ppb

HOUR START	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	DAILY	24-HOUR	
HOUR END	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	MAX.	AVG.	RDGS.
DAY																											
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**IZS**	0	0	0	0	6	0	0	0	0	6	0.3	24
2	0	0	1	1	6	8	7	4	6	2	0	1	0	**IZS**	3	2	0	0	2	6	6	3	0	0	8	2.5	24
3	1	10	0	0	0	1	1	7	2	4	1	1	**IZS**	0	3	0	0	0	0	7	17	5	5	2	17	2.9	24
4	0	2	1	0	15	14	2	2	0	2	2	**IZS**	0	4	4	0	0	0	0	0	0	0	0	0	15	2.1	24
5	0	0	0	0	0	0	0	0	0	0	**IZS**	0	0	0	0	0	0	0	0	0	4	0	0	0	4	0.2	24
6	0	1	0	1	5	7	32	5	9	**IZS**	2	1	0	4	5	0	3	12	0	0	0	0	0	0	32	3.8	24
7	1	0	0	0	0	0	0	58	**IZS**	2	0	0	0	1	0	0	2	0	1	1	0	0	4	13	58	3.6	24
8	0	0	1	0	0	0	1	**IZS**	5	0	0	1	0	19	5	2	4	15	0	3	32	13	7	2	32	4.8	24
9	3	3	2	4	3	1	**IZS**	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	1.0	24
10	0	0	0	0	0	**IZS**	0	1	0	0	0	3	0	0	0	1	2	3	9	29	0	13	0	0	29	2.7	24
11	11	0	0	0	**IZS**	6	5	2	0	0	0	3	0	1	1	0	0	0	1	23	32	0	0	0	32	3.7	24
12	0	0	0	**IZS**	0	0	0	0	1	4	4	0	10	2	3	0	0	7	0	14	0	0	0	0	14	2.0	24
13	0	0	**IZS**	0	0	0	0	0	4	3	0	1	0	0	0	7	1	0	0	5	0	0	0	0	7	0.9	24
14	0	**IZS**	0	2	32	19	53	18	4	1	0	2	3	0	0	0	0	0	17	0	0	0	0	1	53	6.6	24
15	**IZS**	0	0	2	5	44	10	7	4	2	1	6	3	0	0	0	0	0	0	1	10	3	3	**IZS**	44	4.6	24
16	0	0	0	0	0	7	5	3	3	2	0	0	0	0	0	2	3	0	25	14	7	3	**IZS**	0	25	3.2	24
17	0	0	0	0	0	4	0	0	1	0	0	2	1	0	0	0	0	2	3	0	5	**IZS**	31	1	31	2.2	24
18	0	0	0	0	62	11	**96**	20	7	0	0	0	0	0	0	0	0	0	21	14	**IZS**	0	0	0	96	10.0	24
19	0	0	0	0	0	0	6	3	2	4	1	0	1	0	2	1	0	0	1	**IZS**	5	0	0	0	6	1.1	24
20	0	0	0	0	11	0	3	5	1	1	1	0	2	0	0	0	4	0	**IZS**	9	0	0	0	0	11	1.6	24
21	0	0	0	0	0	0	0	0	0	**C**	**C**	**C**	**C**	**IZS**	0	0	3	**IZS**	22	5	3	3	0	0	22	2.0	24
22	0	0	2	0	2	4	1	17	5	1	13	3	10	8	5	12	**IZS**	0	5	21	7	15	3	3	21	6.0	24
23	1	20	1	0	0	0	0	0	1	0	0	0	0	1	3	**IZS**	1	0	0	17	13	10	21	4	21	4.0	24
24	0	0	1	2	4	12	41	29	7	1	4	1	1	0	**IZS**	0	4	2	4	0	0	0	0	0	41	4.9	24
25	0	0	0	0	1	3	0	3	6	**C**	**C**	**C**	**C**	**C**	0	0	0	0	17	41	1	3	5	0	41	4.2	24
26	1	0	1	1	5	2	1	1	2	0	0	0	**IZS**	1	0	0	0	0	0	0	0	0	0	0	5	0.7	24
27	1	0	0	0	25	27	36	37	31	12	29	**IZS**	1	29	5	0	2	2	1	2	2	6	0	0	37	10.8	24
28	0	0	0	0	0	2	2	13	6	4	**IZS**	1	2	1	1	2	1	0	0	0	0	0	0	0	13	1.5	24
29	0	0	0	0	0	0	0	0	0	**IZS**	1	2	0	0	0	1	0	0	0	9	6	5	12	36	36	3.1	24
30	2	9	5	2	8	0	0	1	**IZS**	1	2	4	4	8	4	0	2	1	1	0	3	2	0	1	9	2.6	24
HOURLY MAX	11	20	5	4	62	44	96	58	31	12	29	6	10	29	5	12	4	15	25	41	32	15	31	36			
HOURLY AVG	0.7	1.6	0.5	0.5	6.3	5.9	10.4	8.4	3.8	1.8	2.3	1.2	1.5	2.9	1.6	1.0	1.1	1.5	4.5	7.8	5.3	2.9	3.1	2.2			

STATUS FLAG CODES

S	- OUT OF SERVICE	IZS	- IZS - DAILY ZERO/SPAN CHECK
N	- INVALID DATA	M	- MAINTENANCE
D	- INSTRUMENT DRIFT	P	- POWER FAILURE
C	- CALIBRATION	NA	- NOT APPLICABLE

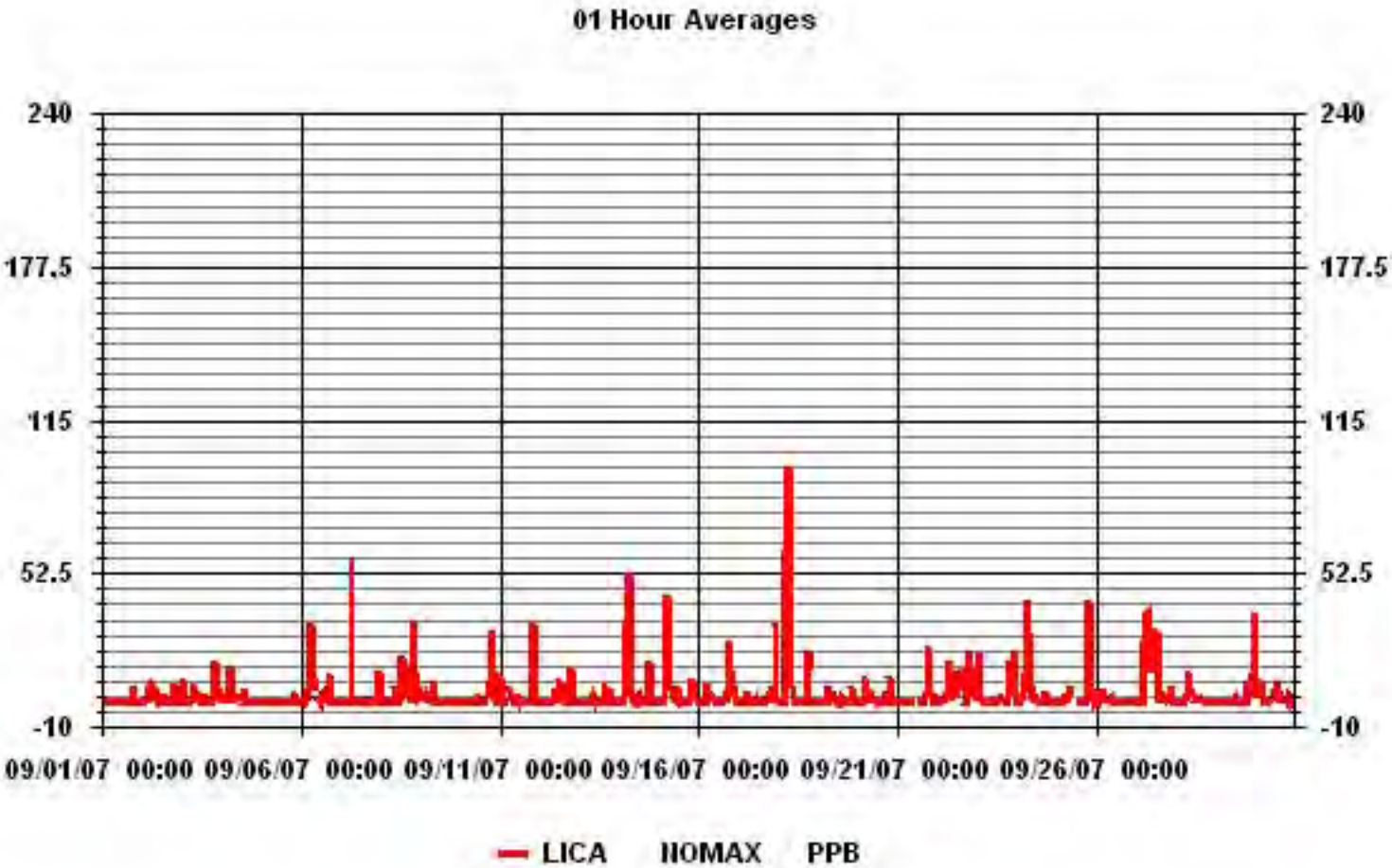
MONTHLY SUMMARY

NUMBER OF NON-ZERO READINGS:	310					
MAXIMUM INSTANTANEOUS VALUE:	96	PPB	@ HOUR(S)	7	ON DAY(S)	18

IZS CALIBRATION TIME:	31	HRS	OPERATIONAL TIME:	720	HRS
MONTHLY CALIBRATION TIME:	9	HRS			
STANDARD DEVIATION:	8.18				

MOUNTAIN STANDARD TIME

Maxxam Analytics Inc


01 Hour Averages
240
177.5
115
52.5
-10
09/01/07 00:00
09/06/07 00:00
09/11/07 00:00
09/16/07 00:00
09/21/07 00:00
09/26/07 00:00
LICA NOMAX PPB

NO_X

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - *COLD LAKE*

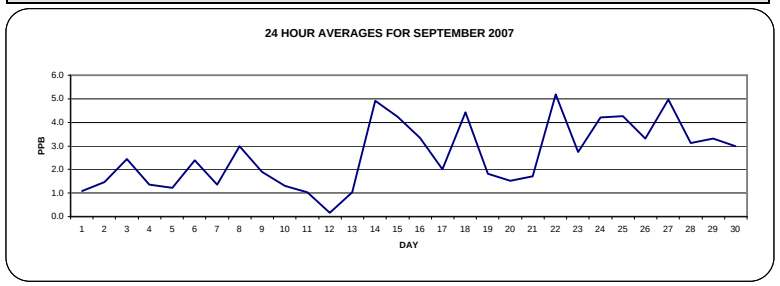
SEPTEMBER 2007

OXIDES OF NITROGEN hourly averages in ppb

HOUR START	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	DAILY	24-HOUR	
HOUR END	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	MAX.	AVG.	RDGS.
DAY																											
1	0	0	0	0	3	3	3	2	1	2	1	0	0	0	**IZS**	0	0	0	0	2	2	2	2	2	3	1.1	24
2	1	2	1	1	1	3	5	4	2	1	1	0	0	**IZS**	1	0	0	0	1	1	3	2	2	2	5	1.5	24
3	2	2	1	0	0	1	2	6	4	3	3	2	**IZS**	1	0	0	0	0	1	7	8	5	6	2	8	2.4	24
4	1	1	1	1	5	8	4	3	1	0	0	**IZS**	0	0	1	0	0	0	0	0	1	1	2	1	8	1.3	24
5	1	1	1	2	1	1	2	2	1	1	**IZS**	0	0	0	0	0	0	0	0	3	5	2	2	3	5	1.2	24
6	4	4	3	2	4	7	8	2	2	**IZS**	2	2	1	1	1	2	1	2	1	2	3	1	0	0	8	2.4	24
7	0	0	0	0	0	0	0	5	**IZS**	1	0	1	1	1	1	1	2	1	2	4	3	1	2	5	5	1.3	24
8	2	3	7	4	2	3	5	**IZS**	3	2	2	1	1	8	4	2	0	0	1	4	4	5	4	2	8	3.0	24
9	3	3	4	5	6	7	**IZS**	4	2	2	0	0	0	0	0	0	1	1	1	2	0	1	1	1	7	1.9	24
10	1	0	0	0	1	**IZS**	2	1	0	0	0	0	0	0	0	1	1	5	6	6	4	2	0	0	6	1.3	24
11	0	0	0	0	**IZS**	1	2	2	1	1	2	2	2	2	1	0	0	0	0	2	6	0	0	0	6	1.0	24
12	0	0	0	**IZS**	0	0	0	1	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	2	0.2	24
13	0	0	**IZS**	0	0	1	3	3	1	1	1	0	0	0	0	1	0	0	3	5	2	1	1	1	5	1.0	24
14	0	**IZS**	2	3	11	18	24	11	2	2	2	2	2	2	1	1	1	2	6	4	5	4	4	4	24	4.9	24
15	**IZS**	3	3	4	4	11	10	10	9	4	3	3	1	1	1	0	0	2	3	5	7	4	5	**IZS**	11	4.2	24
16	2	2	2	2	3	4	6	6	5	4	2	0	0	1	0	1	1	1	5	10	7	9	**IZS**	4	10	3.3	24
17	3	1	0	1	2	2	2	5	3	2	1	2	1	0	0	0	0	0	4	5	4	**IZS**	5	3	5	2.0	24
18	2	2	5	5	9	8	**32**	18	6	0	0	0	0	0	0	0	0	0	9	2	**IZS**	1	2	1	32	4.4	24
19	2	1	0	0	2	4	10	6	3	2	0	0	0	0	0	0	0	0	4	**IZS**	5	1	1	1	10	1.8	24
20	1	1	1	1	2	2	4	2	1	1	2	2	2	1	1	0	1	1	**IZS**	5	2	1	1	0	5	1.5	24
21	0	0	0	0	1	1	3	2	0	**C**	**C**	**C**	**C**	**IZS**	2	2	1	**IZS**	7	4	3	2	1	2	7	1.7	24
22	1	2	5	2	3	5	3	10	4	2	5	5	8	7	7	7	**IZS**	1	6	7	8	8	7	6	10	**5.2**	24
23	4	6	4	3	4	2	3	2	3	1	1	0	0	1	2	**IZS**	2	1	2	2	2	5	8	5	8	2.7	24
24	3	2	2	3	6	9	21	20	8	3	2	1	1	1	**IZS**	1	1	1	2	2	2	2	2	2	21	4.2	24
25	2	3	3	2	3	5	7	8	8	**C**	**C**	**C**	**C**	2	1	1	2	4	6	8	6	5	4	5	8	4.3	24
26	4	2	3	3	5	8	6	6	7	3	2	1	**IZS**	2	1	1	1	1	2	2	3	4	6	3	8	3.3	24
27	3	3	7	5	8	8	22	13	7	9	8	**IZS**	2	3	2	2	2	2	2	1	2	1	1	1	22	5.0	24
28	1	1	1	1	2	3	2	4	4	3	**IZS**	4	5	3	3	4	4	4	3	4	4	7	3	2	7	3.1	24
29	2	0	1	1	1	3	3	2	2	**IZS**	1	1	0	0	0	0	0	2	6	9	13	9	7	13	13	3.3	24
30	5	9	9	6	3	2	2	3	**IZS**	2	2	1	1	1	1	1	1	4	5	3	3	2	2	1	9	3.0	24
HOURLY MAX	5	9	9	6	11	18	32	20	9	9	8	5	8	8	7	7	4	5	9	10	13	9	8	13			
HOURLY AVG	1.7	1.9	2.3	2.0	3.2	4.5	6.8	5.6	3.2	2.0	1.7	1.2	1.2	1.4	1.1	1.0	0.8	1.2	3.0	3.8	4.0	3.0	2.8	2.5			

STATUS FLAG CODES

S	- OUT OF SERVICE	IZS	- IZS - DAILY ZERO/SPAN CHECK
N	- INVALID DATA	M	- MAINTENANCE
D	- INSTRUMENT DRIFT	P	- POWER FAILURE
C	- CALIBRATION	NA	- NOT APPLICABLE



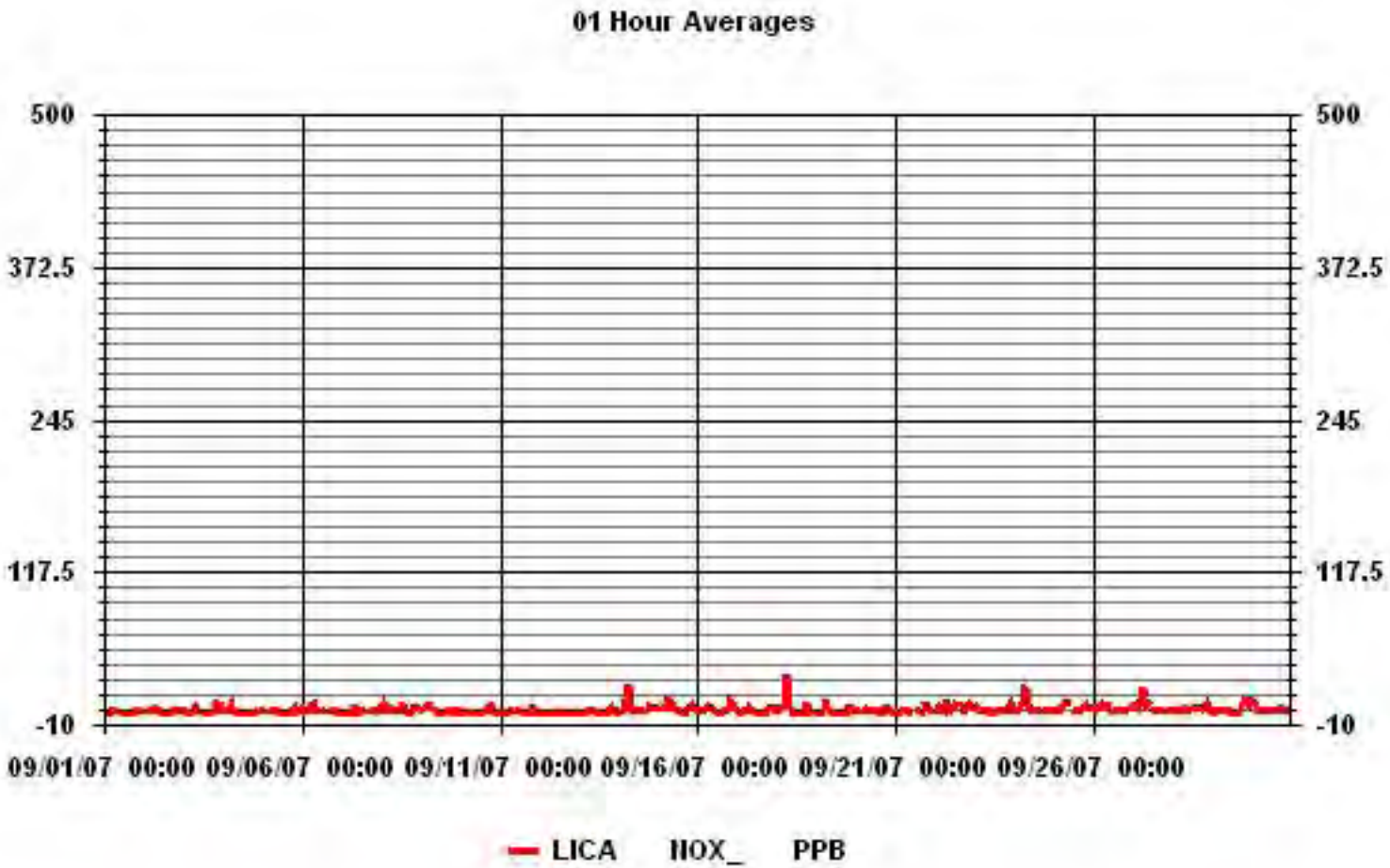
MONTHLY SUMMARY

NUMBER OF NON-ZERO READINGS:	524					
MAXIMUM 1-HR AVERAGE:	32	PPB	@ HOUR(S)	7	ON DAY(S)	18
MAXIMUM 24-HR AVERAGE:	5.2	PPB			ON DAY(S)	22

IZS CALIBRATION TIME:	31	HRS	OPERATIONAL TIME:	720	HRS
MONTHLY CALIBRATION TIME:	8	HRS	AMD OPERATION UPTIME:	100.0	%
STANDARD DEVIATION:	3.19		MONTHLY AVERAGE:	2.59	PPB

MOUNTAIN STANDARD TIME

Maxxam Analytics Inc


01 Hour Averages
500
372.5
245
117.5
-10
09/01/07 00:00
09/06/07 00:00
09/11/07 00:00
09/16/07 00:00
09/21/07 00:00
09/26/07 00:00
LICA NOX_ PPB

LICA
NOX_ / WD Joint Frequency Distribution (Percent)

September 2007

Distribution By % Of Samples

Logger Id : 01
Site Name : LICA
Parameter : NOX_
Units : PPB

Wind Parameter : WD
Instrument Height : 10 Meters

Direction

Limit	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Freq
< 50	2.05	1.90	1.90	2.93	4.69	6.16	8.81	2.64	4.11	6.75	12.04	15.12	9.98	9.83	7.92	3.08	100.00
< 110	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
< 210	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
>= 210	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Totals	2.05	1.90	1.90	2.93	4.69	6.16	8.81	2.64	4.11	6.75	12.04	15.12	9.98	9.83	7.92	3.08	

Calm : .00 %

Total # Operational Hours : 681

Distribution By Samples

Direction

Limit	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Freq
< 50	14	13	13	20	32	42	60	18	28	46	82	103	68	67	54	21	681
< 110																	
< 210																	
>= 210																	
Totals	14	13	13	20	32	42	60	18	28	46	82	103	68	67	54	21	

Calm : .00 %

Total # Operational Hours : 681

Logger : 01 Parameter : NOX_

Site : LICA

Period : 09/01/07-09/30/07

Level : 10

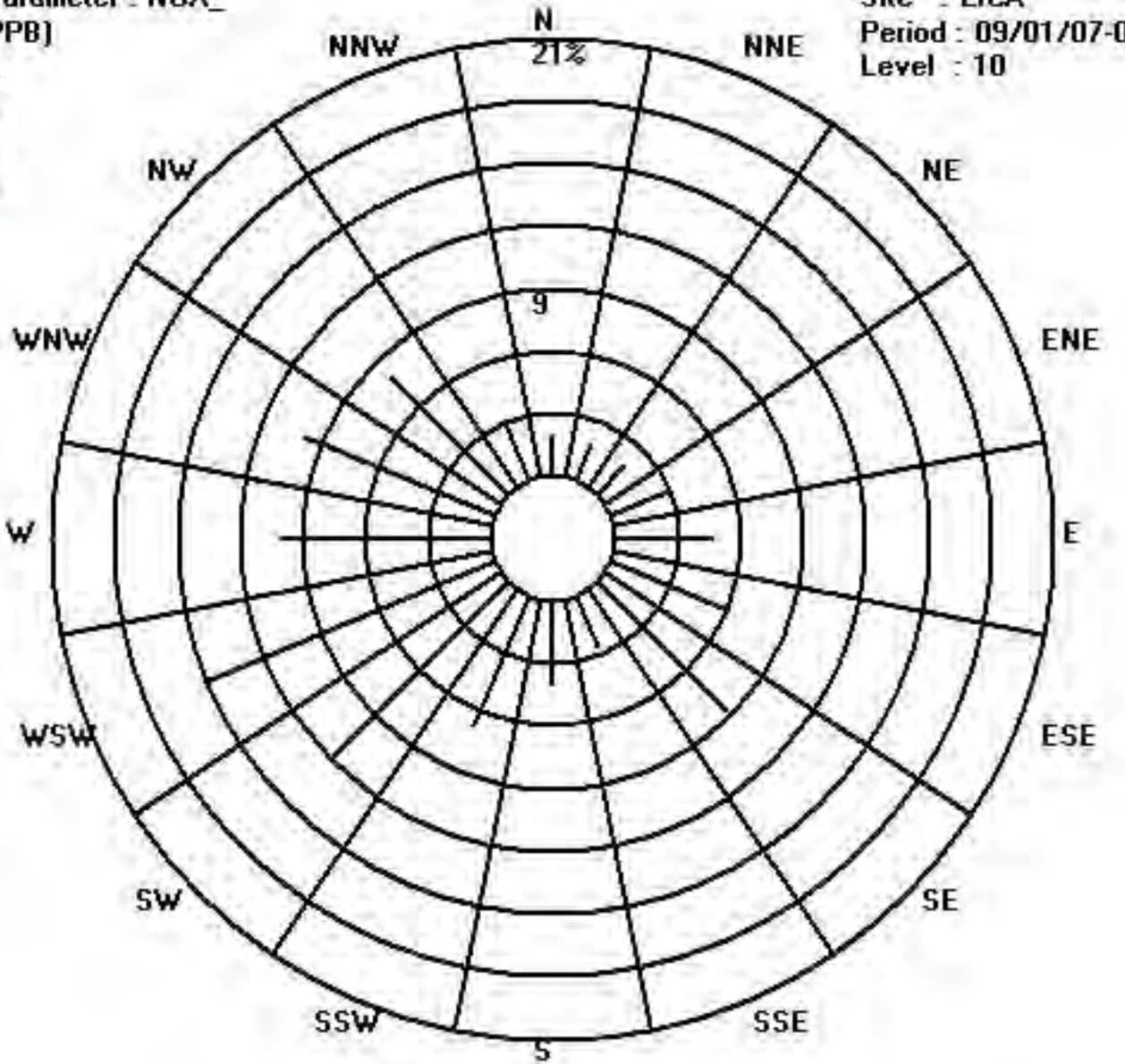
Class Limits (PPB)

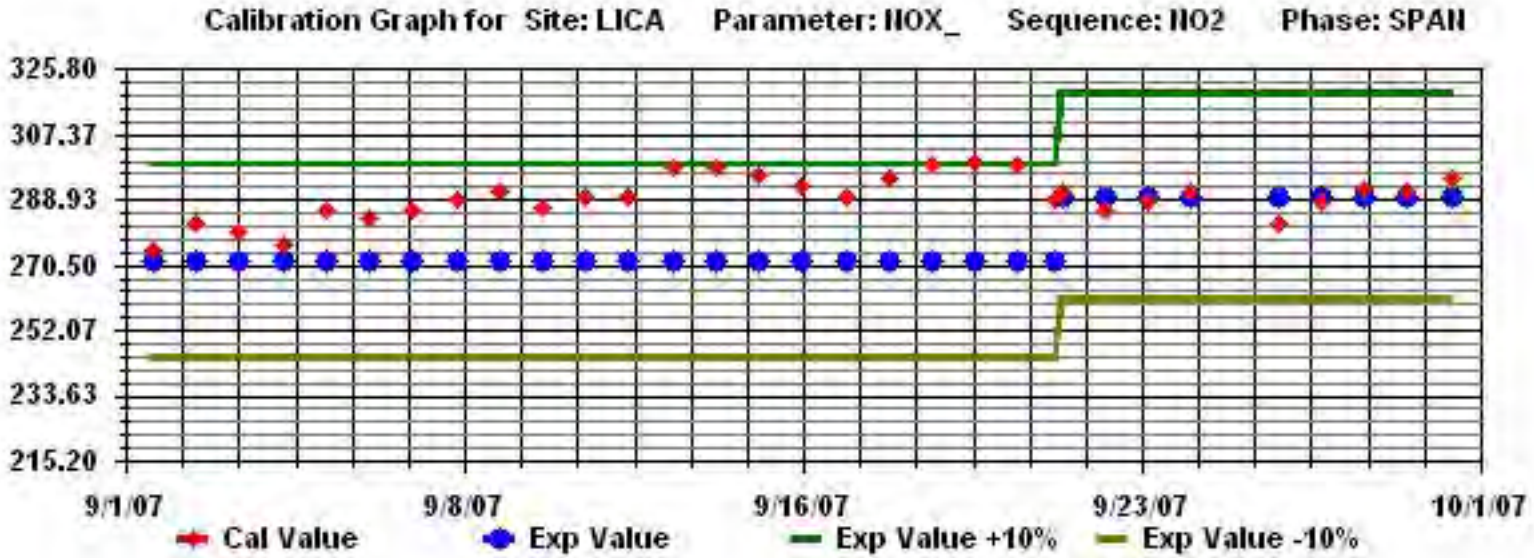
>= 210

< 210

< 110

< 50




Calibration Graph for Site: LICA Parameter: NOX_ Sequence: NO2 Phase: SPAN
325.80
307.37
288.93
270.50
252.07
233.63
215.20
9/1/07
9/8/07
9/16/07
9/23/07
10/1/07
Cal Value
Exp Value
Exp Value +10%
Exp Value -10%

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - *COLD LAKE*

SEPTEMBER 2007

OXIDES OF NITROGEN MAX instantaneous maximum in ppb

HOUR START	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	DAILY	24-HOUR	
HOUR END	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	MAX.	AVG.	RDGS.
DAY																											
1	1	0	1	2	4	5	5	2	2	3	4	0	0	0	**IZS**	0	0	1	2	7	4	4	2	2	7	2.2	24
2	3	4	4	3	8	10	9	8	10	5	3	2	4	**IZS**	4	4	2	1	5	16	16	12	4	3	16	6.1	24
3	4	15	2	2	1	3	3	12	6	8	8	3	**IZS**	2	6	1	3	2	6	18	21	9	9	5	21	6.5	24
4	3	5	5	2	24	25	11	9	4	4	3	**IZS**	1	11	11	1	0	1	1	1	4	4	6	4	25	6.1	24
5	2	2	2	2	2	3	4	3	2	2	**IZS**	2	1	0	0	1	1	1	2	7	11	3	4	4	11	2.7	24
6	6	6	5	6	12	11	35	7	13	**IZS**	6	5	2	5	8	5	11	22	2	4	5	3	1	1	35	7.9	24
7	4	1	2	1	0	0	1	72	**IZS**	4	1	2	1	3	2	2	4	2	5	8	5	2	8	24	72	6.7	24
8	4	5	12	9	4	5	7	**IZS**	7	4	3	3	2	38	14	6	7	15	2	8	20	16	9	3	38	8.8	24
9	5	5	7	7	10	9	**IZS**	13	3	2	1	2	3	1	2	3	2	2	3	3	1	2	2	3	13	4.0	24
10	1	1	0	0	2	**IZS**	3	4	1	0	1	3	1	0	3	4	8	15	9	19	7	19	1	0	19	4.4	24
11	0	0	0	0	**IZS**	9	9	9	2	2	3	6	4	4	5	1	0	1	4	42	51	1	0	1	51	6.7	24
12	1	0	0	**IZS**	2	1	2	2	3	7	4	1	11	7	8	0	0	6	0	15	0	0	0	0	15	3.0	24
13	0	0	**IZS**	0	0	5	6	5	5	5	3	4	1	2	1	17	3	1	6	14	5	2	1	1	17	3.8	24
14	1	**IZS**	3	6	45	27	55	31	5	4	2	6	5	4	2	2	3	3	30	5	7	6	5	7	55	11.5	24
15	**IZS**	5	5	6	9	46	14	12	13	7	6	13	2	3	3	1	3	8	5	15	20	9	9	**IZS**	46	9.7	24
16	3	4	3	3	6	14	12	8	12	7	5	2	3	2	1	4	6	4	36	25	17	13	**IZS**	5	36	8.5	24
17	4	4	1	3	2	14	4	7	5	3	2	5	5	1	3	0	0	10	16	8	11	**IZS**	26	5	26	6.0	24
18	3	3	8	8	89	18	**111**	23	14	2	2	1	0	1	0	0	0	2	44	24	**IZS**	1	3	2	111	15.6	24
19	5	3	0	1	5	8	15	8	6	8	4	0	6	1	5	2	2	2	16	**IZS**	11	3	2	1	16	5.0	24
20	1	2	2	2	23	5	8	8	6	4	3	3	7	2	3	3	5	4	**IZS**	24	5	3	4	2	24	5.6	24
21	0	0	1	1	4	3	5	5	2	**C**	**C**	**C**	**C**	**IZS**	3	5	8	**IZS**	43	10	8	6	2	7	43	6.3	24
22	2	5	13	**N**	7	10	4	24	14	3	16	8	20	13	11	22	**IZS**	5	14	22	15	22	11	10	24	12.3	23
23	10	26	6	4	4	4	4	4	4	2	1	1	3	4	4	**IZS**	5	3	4	31	21	18	36	9	36	9.0	24
24	5	3	5	5	9	19	54	36	16	4	9	2	2	1	**IZS**	6	3	6	8	5	4	3	3	2	54	9.1	24
25	3	3	3	3	7	11	10	11	16	**C**	**C**	**C**	**C**	**C**	2	3	4	6	37	68	11	9	11	6	68	11.8	24
26	6	4	5	4	12	12	10	8	13	4	3	2	**IZS**	5	2	2	2	2	3	3	9	11	9	5	13	5.9	24
27	8	7	9	6	45	37	52	45	45	38	34	**IZS**	4	18	5	5	8	8	7	8	3	9	2	3	52	17.7	24
28	1	2	3	3	3	5	7	18	13	16	**IZS**	6	6	5	7	8	10	5	4	5	5	15	4	3	18	6.7	24
29	2	1	2	2	1	4	4	2	3	**IZS**	2	3	1	1	1	1	1	5	8	21	18	17	26	49	49	7.6	24
30	10	17	14	10	15	5	4	4	**IZS**	4	8	4	2	6	8	5	6	11	10	6	9	8	2	2	17	7.4	24
HOURLY MAX	10	26	14	10	89	46	111	72	45	38	34	13	20	38	14	22	11	22	44	68	51	22	36	49			
HOURLY AVG	3.4	4.6	4.2	3.6	12.2	11.3	16.1	13.8	8.8	5.8	5.3	3.4	3.7	5.2	4.4	3.9	3.7	5.3	11.4	15.2	11.2	7.9	7.0	5.8			

STATUS FLAG CODES

S	- OUT OF SERVICE	IZS	- IZS - DAILY ZERO/SPAN CHECK
N	- INVALID DATA	M	- MAINTENANCE
D	- INSTRUMENT DRIFT	P	- POWER FAILURE
C	- CALIBRATION	NA	- NOT APPLICABLE

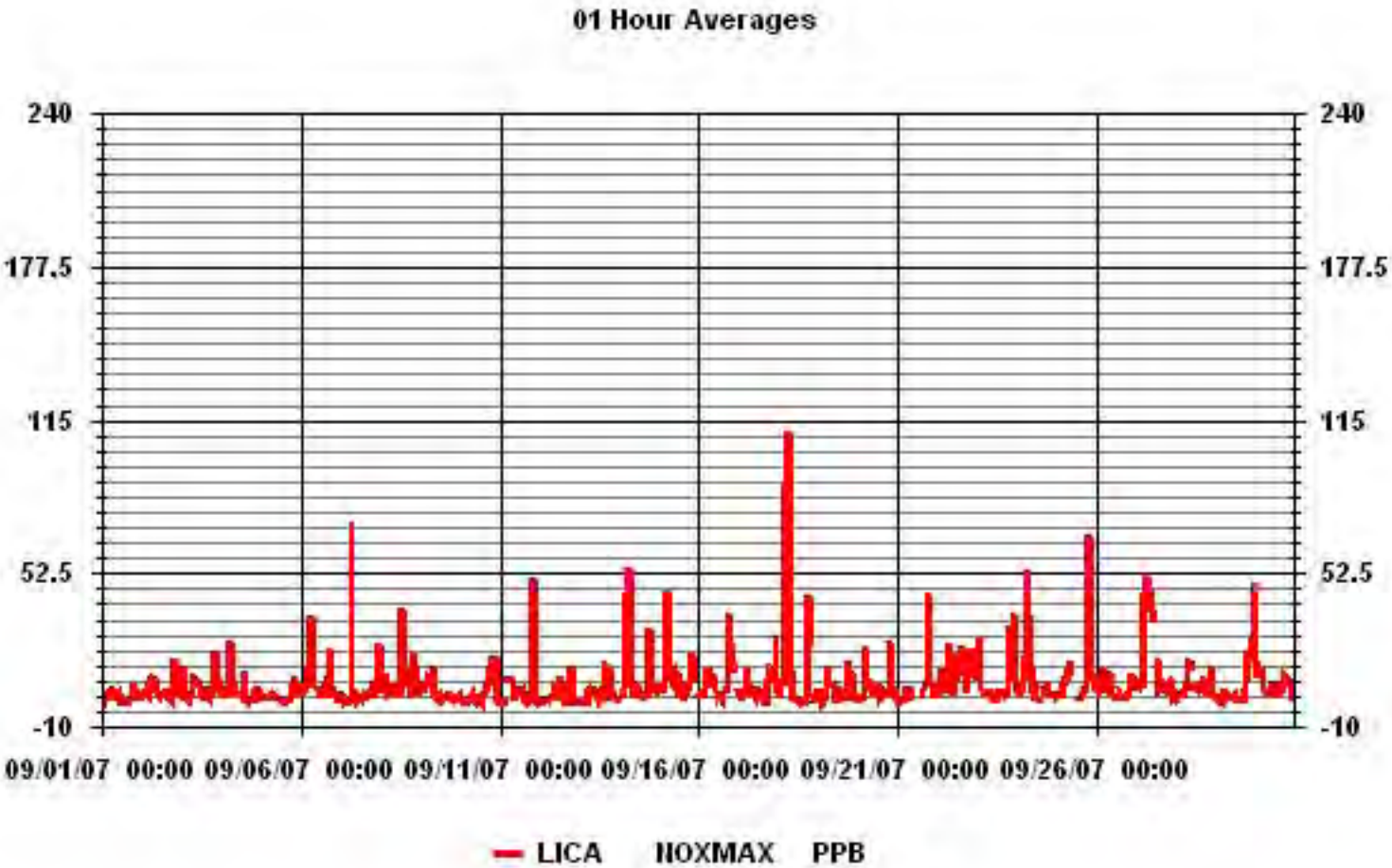
MONTHLY SUMMARY

NUMBER OF NON-ZERO READINGS:	634					
MAXIMUM INSTANTANEOUS VALUE:	111	PPB	@ HOUR(S)	7	ON DAY(S)	18

IZS CALIBRATION TIME:	31	HRS	OPERATIONAL TIME:	719	HRS
MONTHLY CALIBRATION TIME:	9	HRS			
STANDARD DEVIATION:	10.57				

MOUNTAIN STANDARD TIME

Maxxam Analytics Inc


01 Hour Averages
240
177.5
115
52.5
-10
09/01/07 00:00
09/06/07 00:00
09/11/07 00:00
09/16/07 00:00
09/21/07 00:00
09/26/07 00:00
LICA NOXMAX PPB

O_3

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - *COLD LAKE*

SEPTEMBER 2007

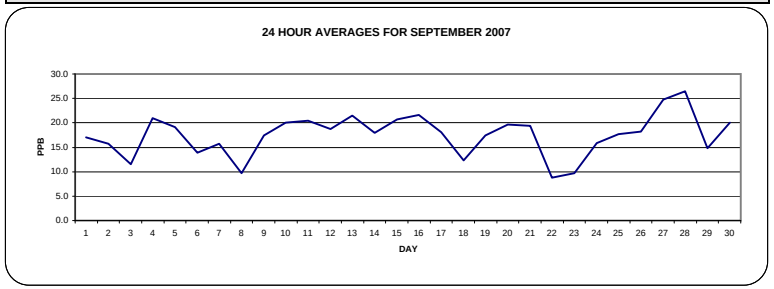
OZONE (O_3) hourly averages in ppb

HOUR START	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	DAILY	24-HOUR	
HOUR END	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	MAX.	AVG.	RDGS.
DAY																											
1	25	24	21	20	17	14	13	15	16	13	15	20	22	27	**IZS**	27	24	24	22	11	5	7	6	3	27	17.0	24
2	1	1	1	1	0	0	0	7	12	17	25	33	32	**IZS**	34	34	38	36	31	27	15	9	5	2	38	15.7	24
3	1	0	0	0	0	0	0	2	5	14	18	20	**IZS**	30	37	40	38	31	20	5	1	0	0	2	40	11.5	24
4	3	3	9	6	4	6	14	14	15	18	20	**IZS**	26	28	33	41	38	35	33	31	30	28	24	23	41	21.0	24
5	20	18	15	12	14	15	14	16	19	21	**IZS**	26	28	30	30	30	30	29	26	16	7	7	6	10	30	19.1	24
6	7	3	3	3	1	2	6	14	16	**IZS**	17	17	22	23	23	26	22	24	19	15	11	14	15	15	26	13.8	24
7	16	12	14	16	14	10	8	8	**IZS**	17	23	25	25	25	26	27	27	22	11	10	8	9	4	5	27	15.7	24
8	3	4	4	7	8	6	5	**IZS**	10	11	14	15	18	17	18	22	23	21	15	2	1	0	0	0	23	9.7	24
9	0	0	0	0	0	1	**IZS**	6	10	13	23	27	27	28	31	31	29	27	25	24	27	26	24	23	31	17.5	24
10	22	20	18	16	15	**IZS**	12	16	19	21	23	26	27	29	29	28	27	23	17	14	6	14	20	20	29	20.1	24
11	20	18	17	16	**IZS**	15	14	15	16	19	22	26	29	31	30	25	22	24	23	21	19	19	16	13	31	20.4	24
12	13	14	16	**IZS**	18	18	17	17	17	18	18	19	19	20	20	21	21	21	20	19	20	22	21	21	22	18.7	24
13	18	20	**IZS**	23	21	18	15	16	20	23	25	26	28	29	30	31	33	31	18	9	18	19	14	8	33	21.4	24
14	8	**IZS**	3	1	1	0	3	12	19	23	26	28	32	38	41	40	40	36	22	14	10	7	4	4	41	17.9	24
15	**IZS**	2	1	0	1	0	1	8	15	23	28	33	38	44	45	47	**48**	45	27	20	12	10	6	**IZS**	48	20.6	24
16	7	6	5	3	3	3	2	15	28	31	37	41	43	44	46	46	46	36	21	10	5	4	**IZS**	16	46	21.7	24
17	10	17	30	25	18	16	14	12	13	14	20	20	24	27	31	32	31	29	16	7	5	**IZS**	2	2	32	18.0	24
18	1	1	4	4	2	1	1	4	13	20	20	18	17	18	20	21	20	20	19	17	**IZS**	15	13	14	21	12.3	24
19	11	7	11	9	8	4	4	10	14	17	22	24	25	27	29	30	31	29	17	**IZS**	11	20	21	20	31	17.4	24
20	20	17	16	15	14	13	13	13	16	18	19	21	23	26	28	30	30	29	**IZS**	14	19	21	19	17	30	19.6	24
21	17	17	18	18	17	20	17	16	15	17	19	22	23	22	24	24	24	**IZS**	17	18	19	21	21	19	24	19.3	24
22	14	7	4	6	2	2	3	4	9	13	12	12	11	14	15	16	**IZS**	27	13	7	3	2	1	4	27	8.7	24
23	3	1	1	2	4	7	7	7	9	13	17	18	18	18	18	**IZS**	20	21	13	10	7	5	2	1	21	9.7	24
24	2	2	2	0	0	0	1	3	13	19	23	26	27	30	**C**	**C**	**IZS**	29	27	27	26	25	26	26	30	15.9	24
25	24	23	21	19	14	11	11	12	18	20	25	27	28	**C**	29	28	22	18	18	14	9	7	3	7	29	17.7	24
26	5	2	1	0	2	6	12	17	20	25	27	31	**IZS**	33	31	31	29	25	24	24	20	21	16	16	33	18.2	24
27	13	6	12	12	3	1	1	8	15	19	23	**IZS**	41	40	40	41	40	39	38	38	36	36	34	33	41	24.7	24
28	33	32	31	29	27	25	25	24	23	25	**IZS**	25	25	27	29	28	29	29	27	25	25	15	24	26	33	**26.4**	24
29	25	25	22	20	17	14	13	14	14	**IZS**	15	15	16	17	19	20	21	20	15	7	2	3	3	2	25	14.7	24
30	3	1	1	2	10	15	17	17	**IZS**	19	24	29	30	31	31	30	29	26	24	25	25	25	24	24	31	20.1	24
HOURLY MAX	33	32	31	29	27	25	25	24	28	31	37	41	43	44	46	47	48	45	38	38	36	36	34	33			
HOURLY AVG	11.9	10.4	10.4	9.8	8.8	8.4	9.1	11.8	15.3	18.6	21.4	23.9	25.9	27.6	29.2	30.3	29.7	27.8	21.3	16.6	13.9	14.2	12.9	13.0			

STATUS FLAG CODES

S	- OUT OF SERVICE	IZS	- IZS - DAILY ZERO/SPAN CHECK
N	- INVALID DATA	M	- MAINTENANCE
D	- INSTRUMENT DRIFT	P	- POWER FAILURE
C	- CALIBRATION	NA	- NOT APPLICABLE

OBJECTIVE LIMIT: **ALBERTA ENVIRONMENT:** 1-HR 82 PPB



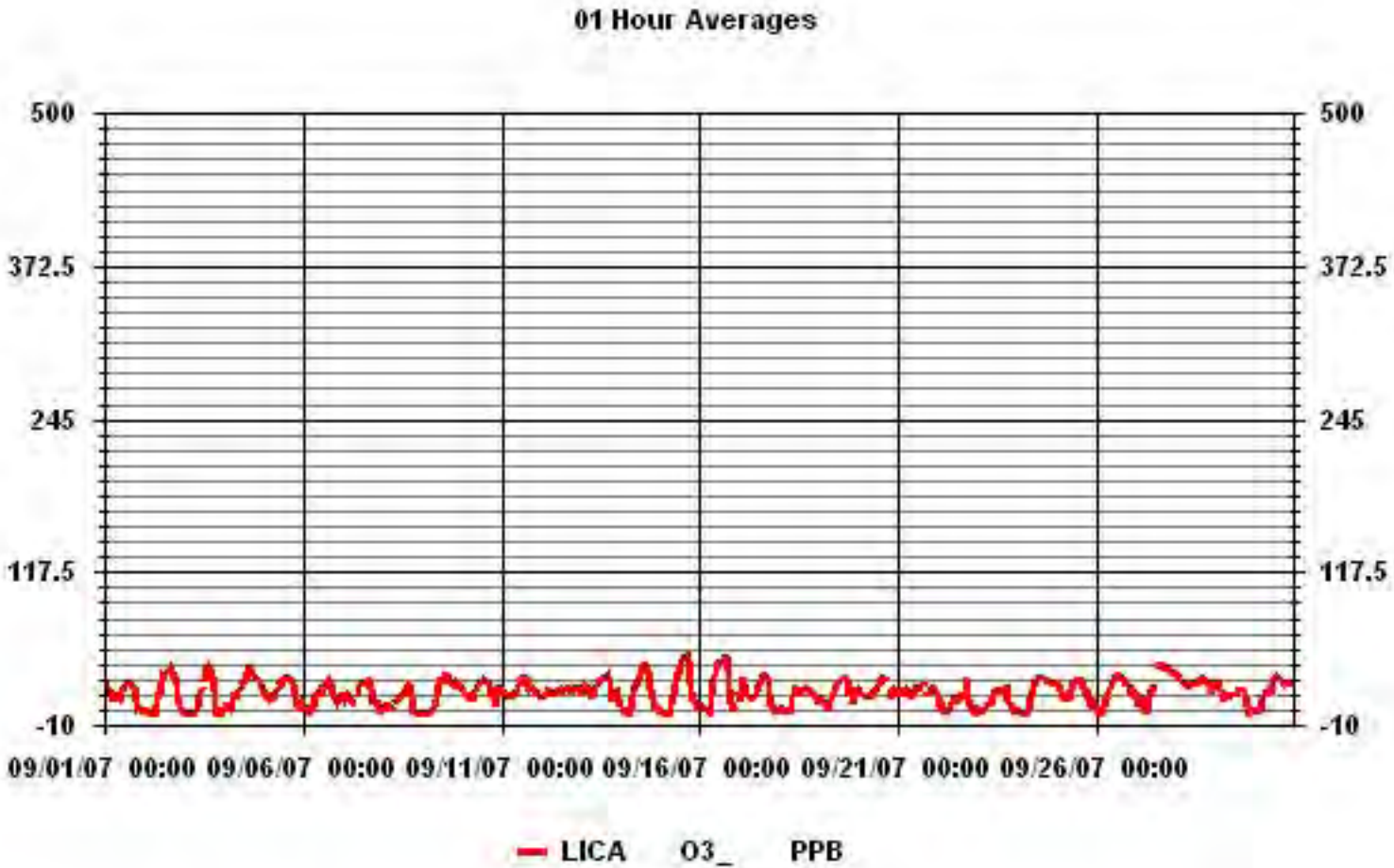
MONTHLY SUMMARY

NUMBER OF 1-HR EXCEEDENCES:	0					
NUMBER OF NON-ZERO READINGS:	661					
MAXIMUM 1-HR AVERAGE:	48	PPB	@ HOUR(S)	17	ON DAY(S)	15
MAXIMUM 24-HR AVERAGE:	26.4	PPB			ON DAY(S)	28

IZS CALIBRATION TIME:	30	HRS	OPERATIONAL TIME:	720	HRS
MONTHLY CALIBRATION TIME:	3	HRS	AMD OPERATION UPTIME:	100.0	%
STANDARD DEVIATION:	10.65		MONTHLY AVERAGE:	17.49	PPB

Maxxam Analytics Inc

MOUNTAIN STANDARD TIME


01 Hour Averages
500
372.5
245
117.5
-10
09/01/07 00:00
09/06/07 00:00
09/11/07 00:00
09/16/07 00:00
09/21/07 00:00
09/26/07 00:00
LICA O3_ PPB

LICA
O3_ / WD Joint Frequency Distribution (Percent)

September 2007

Distribution By % Of Samples

Logger Id : 01
Site Name : LICA
Parameter : O3_
Units : PPB

Wind Parameter : WD
Instrument Height : 10 Meters

Direction

Limit	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Freq
< 50	2.03	1.89	1.89	2.91	4.65	6.11	8.73	2.62	4.07	6.55	11.79	15.57	10.33	9.89	7.86	3.05	100.00
< 110	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
< 210	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
>= 210	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Totals	2.03	1.89	1.89	2.91	4.65	6.11	8.73	2.62	4.07	6.55	11.79	15.57	10.33	9.89	7.86	3.05	

Calm : .00 %

Total # Operational Hours : 687

Distribution By Samples

Direction

Limit	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Freq
< 50	14	13	13	20	32	42	60	18	28	45	81	107	71	68	54	21	687
< 110																	
< 210																	
>= 210																	
Totals	14	13	13	20	32	42	60	18	28	45	81	107	71	68	54	21	

Calm : .00 %

Total # Operational Hours : 687

Logger : 01 Parameter : 03_

Class Limits (PPB)

>= 210

< 210

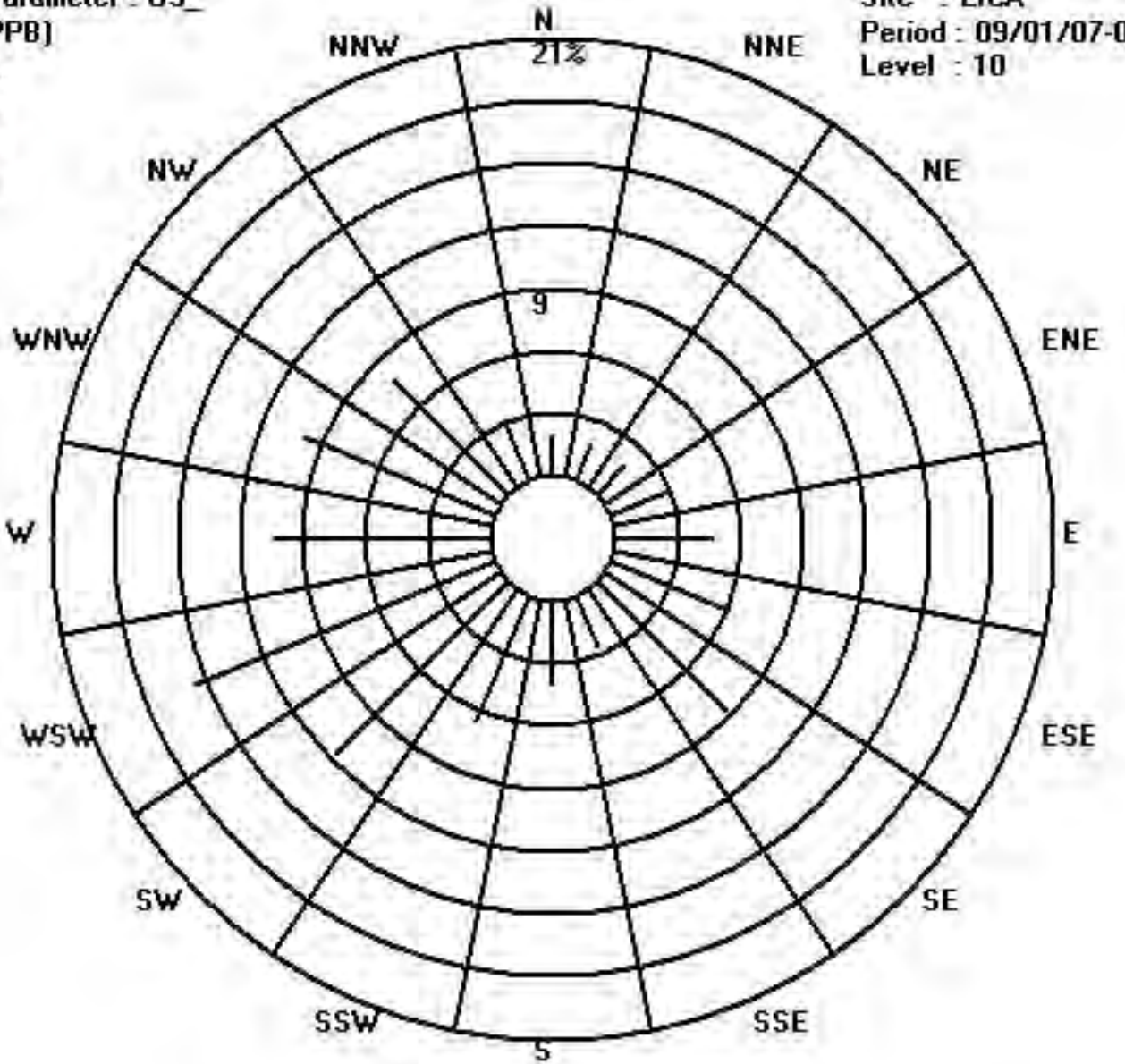
< 110

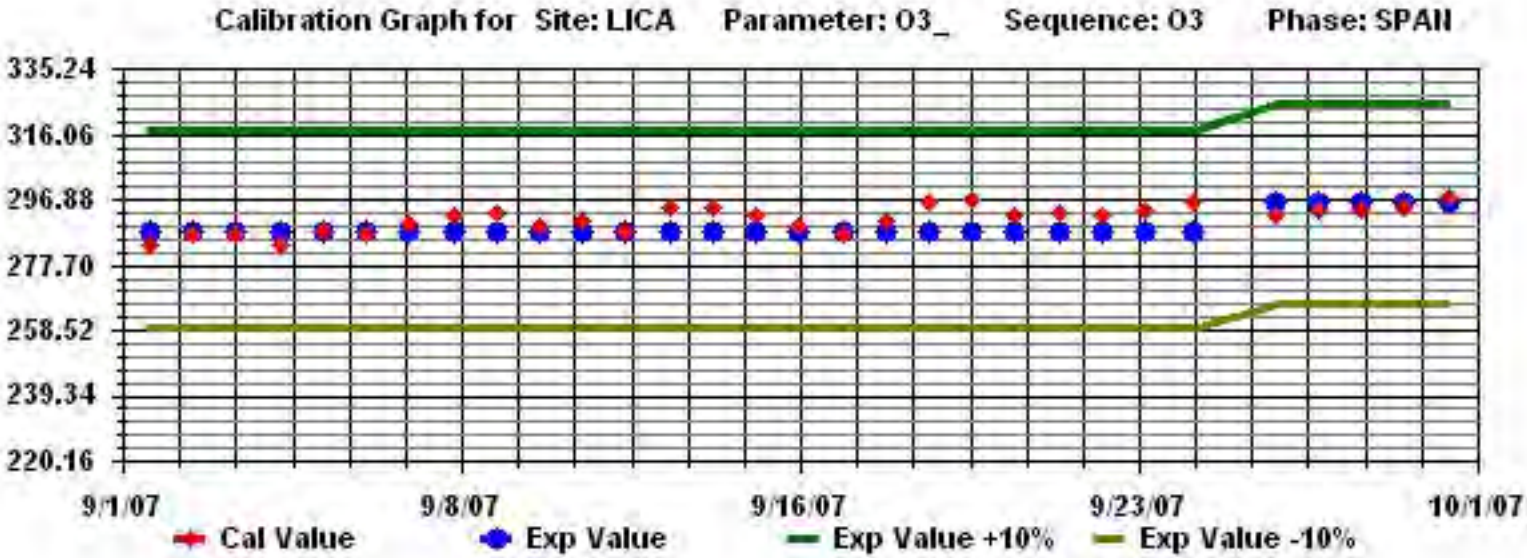
< 50

Site : LICA

Period : 09/01/07-09/30/07

Level : 10




Calibration Graph for Site: LICA Parameter: O3_ Sequence: O3 Phase: SPAN
335.24
316.06
296.88
277.70
258.52
239.34
220.16
9/1/07
9/8/07
9/16/07
9/23/07
10/1/07
Cal Value
Exp Value
Exp Value +10%
Exp Value -10%

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - *COLD LAKE*

SEPTEMBER 2007

OZONE MAX instantaneous maximum in ppb

HOUR START	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	DAILY	24-HOUR	
HOUR END	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	MAX.	AVG.	RDGS.
DAY																											
1	28	28	23	22	20	16	14	18	17	15	18	23	26	29	**IZS**	28	26	26	24	19	8	12	12	6	29	19.9	24
2	2	3	2	2	1	0	1	12	14	21	32	35	34	**IZS**	36	36	41	40	34	30	23	17	11	4	41	18.7	24
3	2	1	1	1	1	1	1	7	8	19	19	22	**IZS**	34	41	42	42	34	28	11	3	1	1	5	42	14.1	24
4	8	12	12	12	8	10	17	16	17	21	23	**IZS**	28	30	37	42	41	37	34	32	31	31	27	24	42	23.9	24
5	23	20	17	13	16	16	16	18	20	22	**IZS**	28	29	30	31	32	31	30	28	24	10	12	8	12	32	21.1	24
6	10	5	5	5	2	4	13	18	19	**IZS**	26	23	26	28	30	30	30	29	22	20	14	17	17	16	30	17.8	24
7	18	17	20	17	16	11	9	10	**IZS**	24	28	27	27	27	28	28	28	28	19	17	15	15	7	8	28	19.3	24
8	5	7	6	9	9	8	7	**IZS**	12	13	16	18	20	26	23	26	25	25	20	8	2	2	1	0	26	12.5	24
9	0	0	1	0	1	1	**IZS**	7	13	16	27	29	29	29	33	33	30	30	26	26	28	28	25	24	33	19.0	24
10	23	21	19	17	16	**IZS**	13	18	20	23	24	28	29	30	30	29	28	27	23	17	11	20	22	21	30	22.1	24
11	21	20	17	17	**IZS**	16	15	15	17	21	24	28	31	33	33	27	24	26	25	23	23	21	17	14	33	22.1	24
12	14	17	17	**IZS**	19	19	18	18	18	19	19	20	20	20	21	22	22	22	22	20	21	23	21	22	23	19.7	24
13	20	23	**IZS**	24	23	21	18	20	22	25	28	27	29	30	31	33	34	33	30	14	22	21	20	13	34	24.4	24
14	13	**IZS**	5	2	4	1	8	20	21	25	28	30	37	41	42	42	41	39	34	19	14	11	6	7	42	21.3	24
15	**IZS**	4	3	1	1	0	3	13	18	27	32	36	40	46	46	49	**51**	**51**	38	31	18	16	15	**IZS**	51	24.5	24
16	12	16	13	5	10	7	3	25	31	32	41	43	44	46	47	47	48	47	29	22	10	13	**IZS**	21	48	26.6	24
17	15	26	32	29	21	19	16	13	15	20	21	23	26	30	33	33	32	33	27	13	9	**IZS**	4	3	33	21.4	24
18	2	3	8	8	6	5	4	9	21	21	21	19	18	19	22	22	21	20	30	18	**IZS**	16	15	15	30	14.9	24
19	14	9	12	12	12	7	7	13	15	20	24	26	28	29	31	31	32	30	28	**IZS**	18	22	22	20	32	20.1	24
20	20	19	16	16	15	14	15	16	17	19	19	22	26	28	30	31	31	30	**IZS**	20	21	23	22	19	31	21.3	24
21	18	18	19	20	20	21	19	17	17	19	21	23	25	26	25	25	25	**IZS**	20	19	22	22	22	21	26	21.0	24
22	20	10	7	11	5	6	6	6	12	15	14	14	14	16	16	18	**IZS**	30	28	11	9	7	3	9	30	12.5	24
23	6	3	3	5	7	8	8	8	11	15	18	20	19	19	19	**IZS**	22	27	22	15	9	9	5	3	27	12.2	24
24	3	4	3	1	1	1	1	10	17	21	25	28	29	31	**C**	**C**	IZS	30	29	28	27	26	27	27	31	17.6	24
25	25	24	22	21	18	15	14	17	19	24	27	28	29	**C**	30	29	28	22	21	21	15	13	6	10	30	20.8	24
26	10	4	4	1	5	9	15	19	23	26	29	34	**IZS**	34	33	32	32	27	27	26	24	26	21	20	34	20.9	24
27	19	13	15	16	9	2	8	15	18	22	26	**IZS**	42	43	42	42	42	40	39	39	37	37	36	33	43	27.6	24
28	35	33	32	30	28	27	26	26	25	26	**IZS**	26	26	29	30	29	30	30	30	27	27	20	26	27	35	28.0	24
29	27	27	23	21	18	16	14	15	16	**IZS**	15	15	17	18	20	21	22	22	17	13	5	6	5	4	27	16.4	24
30	7	4	1	4	15	17	17	18	**IZS**	20	28	30	31	32	33	31	30	30	26	26	26	26	25	24	33	21.8	24
HOURLY MAX	35	33	32	30	28	27	26	26	31	32	41	43	44	46	47	49	51	51	39	39	37	37	36	33			
HOURLY AVG	14.5	13.5	12.3	11.8	11.3	10.3	11.2	15.1	17.6	21.1	24.0	25.9	27.8	29.8	31.2	31.8	31.8	30.9	26.9	21.0	17.3	17.7	15.5	14.9			

STATUS FLAG CODES

S	- OUT OF SERVICE	IZS	- IZS - DAILY ZERO/SPAN CHECK
N	- INVALID DATA	M	- MAINTENANCE
D	- INSTRUMENT DRIFT	P	- POWER FAILURE
C	- CALIBRATION	NA	- NOT APPLICABLE

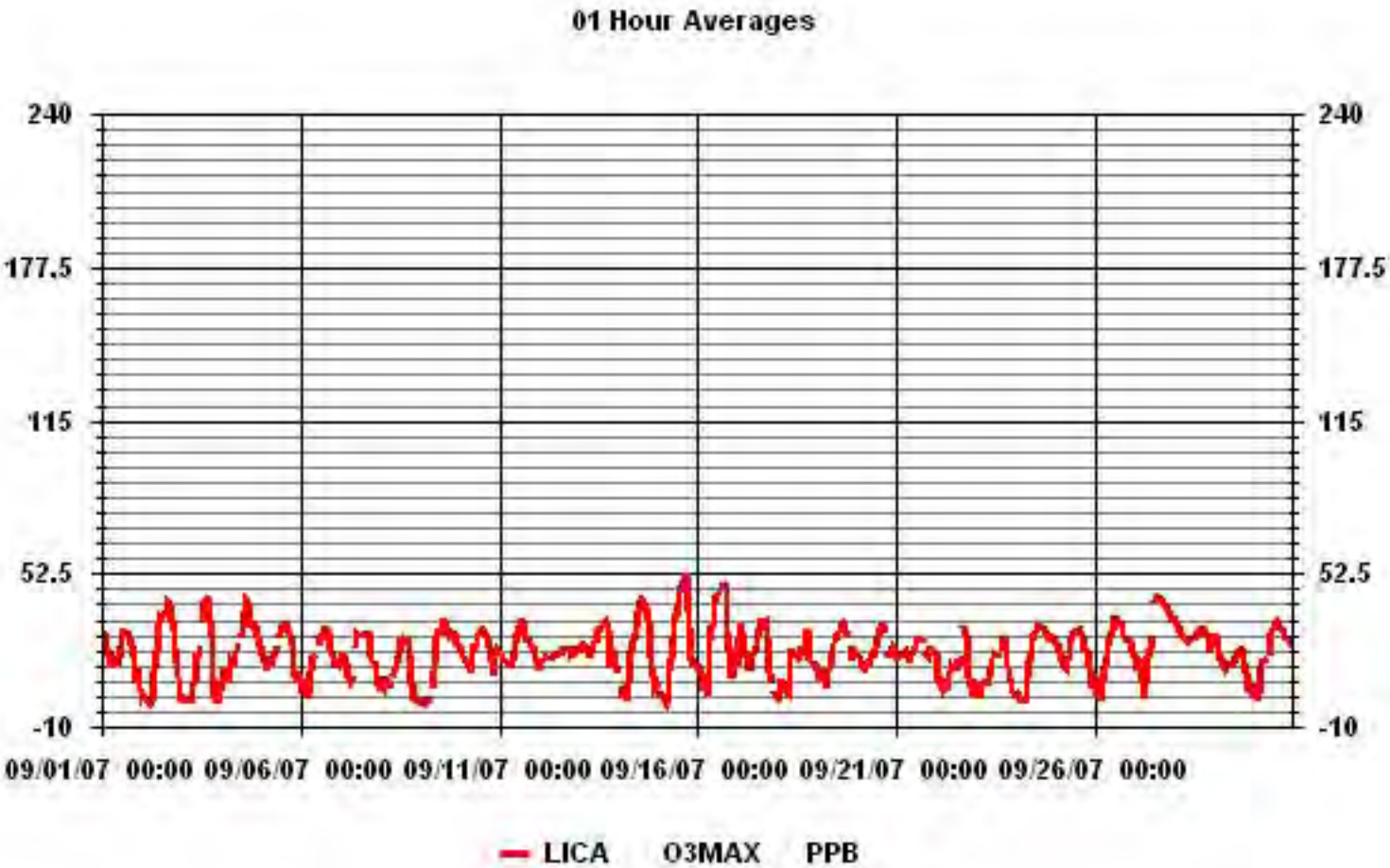
MONTHLY SUMMARY

NUMBER OF NON-ZERO READINGS:	681					
MAXIMUM INSTANTANEOUS VALUE:	51	PPB	@ HOUR(S)	17,18	ON DAY(S)	15

IZS CALIBRATION TIME:	30	HRS	OPERATIONAL TIME:	720	HRS
MONTHLY CALIBRATION TIME:	3	HRS			
STANDARD DEVIATION:	10.51				

MOUNTAIN STANDARD TIME

Maxxam Analytics Inc


01 Hour Averages
240
177.5
115
52.5
-10
09/01/07 00:00
09/06/07 00:00
09/11/07 00:00
09/16/07 00:00
09/21/07 00:00
09/26/07 00:00
LICA O3MAX PPB

VECTOR WIND SPEED

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - *COLD LAKE*

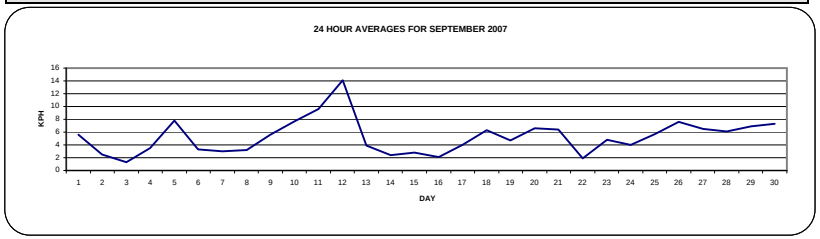
SEPTEMBER 2007

VECTOR WIND SPEED (WS) hourly averages (km/hr)

HOUR START	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	DAILY	24-HOUR	
HOUR END	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	MAX.	AVG.	RDGS.
DAY																											
1	5.1	2.7	4.1	6.1	5.4	7.9	6.8	7.6	7	5.7	9.2	9.3	10.6	11.1	9.4	10.4	8.1	7.8	3.7	1.8	0.9	4.1	2.9	1	11.1	5.6	24
2	0.2	0.8	0.8	0.4	0.5	0.6	0.5	0.5	1	4.9	4.7	6.6	4.9	2.5	5.5	8.8	8.9	4.4	5.1	3.8	2.5	0.4	0.4	0.4	8.9	2.5	24
3	0.1	0.1	0.4	1.4	0.4	0.6	0.9	1.7	1.1	4.9	4.3	4.2	4.3	4.5	4.4	3.2	2.6	4.7	1.3	1	0.4	0.3	0.6	1.1	4.9	1.3	24
4	0.3	1.2	0.4	0.4	2.1	2	6.8	5.7	4.2	8.3	9.2	9.5	10.6	8.3	9.6	11.4	11.6	12.6	9	6.6	8.7	8	8.6	9.2	12.6	3.5	24
5	7.3	5.9	5.6	5.4	7.3	6.5	7.6	10.3	10.1	10.6	11.7	13.6	13.1	14.5	11.4	13.9	10.8	8.5	4.3	2.2	1.1	1.3	1.7	3.3	14.5	7.8	24
6	0.9	0.6	0.6	0.8	1	1.1	2.7	5.1	4.9	4.6	7.5	5.3	6.1	7.7	3	1.8	2.6	1.8	1.8	3.3	4.5	5.8	3	3.2	7.7	3.3	24
7	2.7	1.7	1.7	4.8	3.6	3.4	4.6	5.5	5.1	4.6	5.3	4.6	5	3.9	2.1	2.6	1.7	2	0.8	1.2	0.8	0.7	1.9	2.6	5.5	3.0	24
8	1.2	4	4.5	5.7	3.7	3.7	1.5	5.3	4.5	6	7.2	6	4	1	3.3	4.9	2.5	1	2.9	0.8	1	0.5	1.2	1.3	7.2	3.2	24
9	0.2	0.2	2.4	0.1	1.9	1.8	1.9	3.6	4.1	3	7.3	9.4	9.2	10.1	10.3	9.9	7.6	5.2	5.1	6.5	8.8	9	7.7	8	10.3	5.6	24
10	7.2	7.1	6.3	5.2	6.2	5.5	7.8	12.4	14.2	13.1	11.9	10	8.3	9.1	5.5	6.4	6.8	5	3	2.7	1.4	4.1	12.5	12.1	14.2	7.7	24
11	12.5	11	10.1	7.4	8.3	7.8	8.5	9.2	8.6	6.5	8	10.1	10	11.7	12.8	16.3	12.6	9.2	4.5	3.9	4.9	10.1	12.3	13.8	16.3	9.6	24
12	13.3	13.5	11.7	13	14.1	12.3	13.9	13.6	12.4	13.2	15.1	**19.4**	16.9	17.8	17.9	18.8	16.5	16.5	13.9	12	12.5	12.5	9.7	7.1	19.4	**14.1**	24
13	4.5	5.5	6.6	6.7	5.2	3.2	2.2	4.1	2.5	2.2	2.1	3.7	5.2	4.7	5.4	4.1	6.6	4	1.5	3.1	3.7	4.1	1.5	0.2	6.7	3.9	24
14	0.3	0.8	0.2	0.4	0.9	0.8	2	2.7	3.2	3.9	4.3	3.6	5.1	6.4	5.3	6.3	5	2.4	1.3	0.5	0.3	0.5	0.5	0.2	6.4	2.4	24
15	0.9	0.1	0	0.4	0.3	0.7	0.6	2.6	3.8	3.5	4.8	5.2	5.8	7	8.2	8.1	8.3	2.8	0.6	1.3	0.3	0.3	0.3	1	8.3	2.8	24
16	0.7	2	0.5	0.1	0.6	0.4	0.2	3.3	4.3	3	4	5.4	4.8	4	1.1	1.9	3.4	1.5	0.6	0.2	0.4	1.6	3.7	3	5.4	2.1	24
17	1.1	5.1	9	4	2.4	2.8	3.1	4.9	4.2	6.1	6.8	5.6	5.5	5.9	9.2	8.2	4.9	2.4	0.9	0.7	0.6	0.6	0.4	0.4	9.2	4.0	24
18	0.5	1	3.3	2	0.9	0.7	0.6	2.6	6.2	8.5	10.2	11.5	11.1	11.2	12.3	11.6	12.2	12.4	8.7	6.2	5.2	3.7	4.2	4.4	12.4	6.3	24
19	2.9	3.1	3.9	4.4	3.9	3	3.7	4.3	5.1	5.8	5.8	6.8	5.4	5.4	6.4	7.4	8	5	0.8	1.4	4.2	5.6	4.9	5.7	8.0	4.7	24
20	5.7	5.2	6.6	8.2	6.4	5	3.8	3.2	4.7	5.6	7.5	8.7	8.8	9.7	9.5	8.6	9.8	8.7	3.7	0.8	4.4	7.3	8.6	8.4	9.8	6.6	24
21	7.4	8.3	8.3	8.6	9.1	8	8.1	4.9	11	8.9	5.8	6.2	6.9	7.7	6.2	4.6	1.9	2	4.5	3.9	4.4	6.1	6.6	4.9	11.0	6.4	24
22	1	0.6	1.9	0.4	0.1	0.2	2	0.2	2.3	3.9	1.1	2.2	1.8	6	2.6	3.2	1.4	5	0.8	0.4	0.6	1.3	2.7	3.3	6.0	1.9	24
23	3	1.1	2.6	1.7	2.7	4.1	4.3	6.1	8	11.1	12.4	12.1	10.1	8.5	7.7	6.3	5.2	3.7	1.3	0.9	0.5	1.3	0.5	1	12.4	4.8	24
24	0.7	1.4	0.3	0	0.3	0.2	0.5	1.2	4.1	6.6	8.8	8.1	6.5	6.8	6.3	8.3	5.1	3.1	3.9	6.3	6.4	3.5	2.9	3.6	8.8	4.0	24
25	5.4	3.7	2.5	1.9	1.1	1	2.6	3.3	7	9.6	13.1	14.4	13.3	12.9	9.9	9.4	2.2	3.6	4	3.6	3.6	2.2	2.5	4.8	14.4	5.7	24
26	1.5	0.7	0.4	0.2	0.6	4.7	6.2	7.2	10.5	13.6	13.9	15.9	14.1	14.3	16.1	11.9	8.7	7.5	7.2	5.2	5.7	7.1	4.9	5.5	16.1	7.7	24
27	4.3	2.7	5.6	3.8	0.9	1.3	1.9	1.4	3.3	3.2	5.7	7.5	6.8	9.1	13.5	12.5	12	9.3	8.4	9.1	10	10.7	7.3	6.9	13.5	6.6	24
28	8	7.3	7	7	6.4	5.4	7.6	8.5	8.4	4	4.6	3	4.6	4.4	3.5	4.6	6.9	10.7	5.8	5.9	3.7	3.1	6	9.4	10.7	6.1	24
29	9.9	11.6	10.2	8.5	8.1	6.4	5	7	9.5	9.9	9.5	8.4	9.5	9.1	10.2	7.7	7.5	8.1	5.2	1	0.4	1.1	0.5	0.7	11.6	6.9	24
30	0.5	0.3	0.2	1.3	3.8	6.6	7.4	9.4	10	9.9	9.7	12.4	14.1	15.7	14.1	12.3	8.2	4.6	4.2	5.4	6.9	6.5	6.1	6.2	15.7	7.3	24
HOURLY MAX	13.3	13.5	11.7	13.0	14.1	12.3	13.9	13.6	14.2	13.6	15.1	19.4	16.9	17.8	17.9	18.8	16.5	16.5	13.9	12.0	12.5	12.5	12.5	13.8			
HOURLY AVG	3.6	3.6	3.9	3.7	3.6	3.6	4.2	5.2	6.2	6.8	7.7	8.3	8.1	8.4	8.1	8.2	7.0	5.9	4.0	3.4	3.6	4.1	4.2	4.4			

STATUS FLAG CODES

S	- OUT OF SERVICE	IZS	- IZS - DAILY ZERO/SPAN CHECK
N	- INVALID DATA	M	- MAINTENANCE
D	- INSTRUMENT DRIFT	P	- POWER FAILURE
C	- CALIBRATION	NA	- NOT APPLICABLE



LAST CALIBRATION:	NA

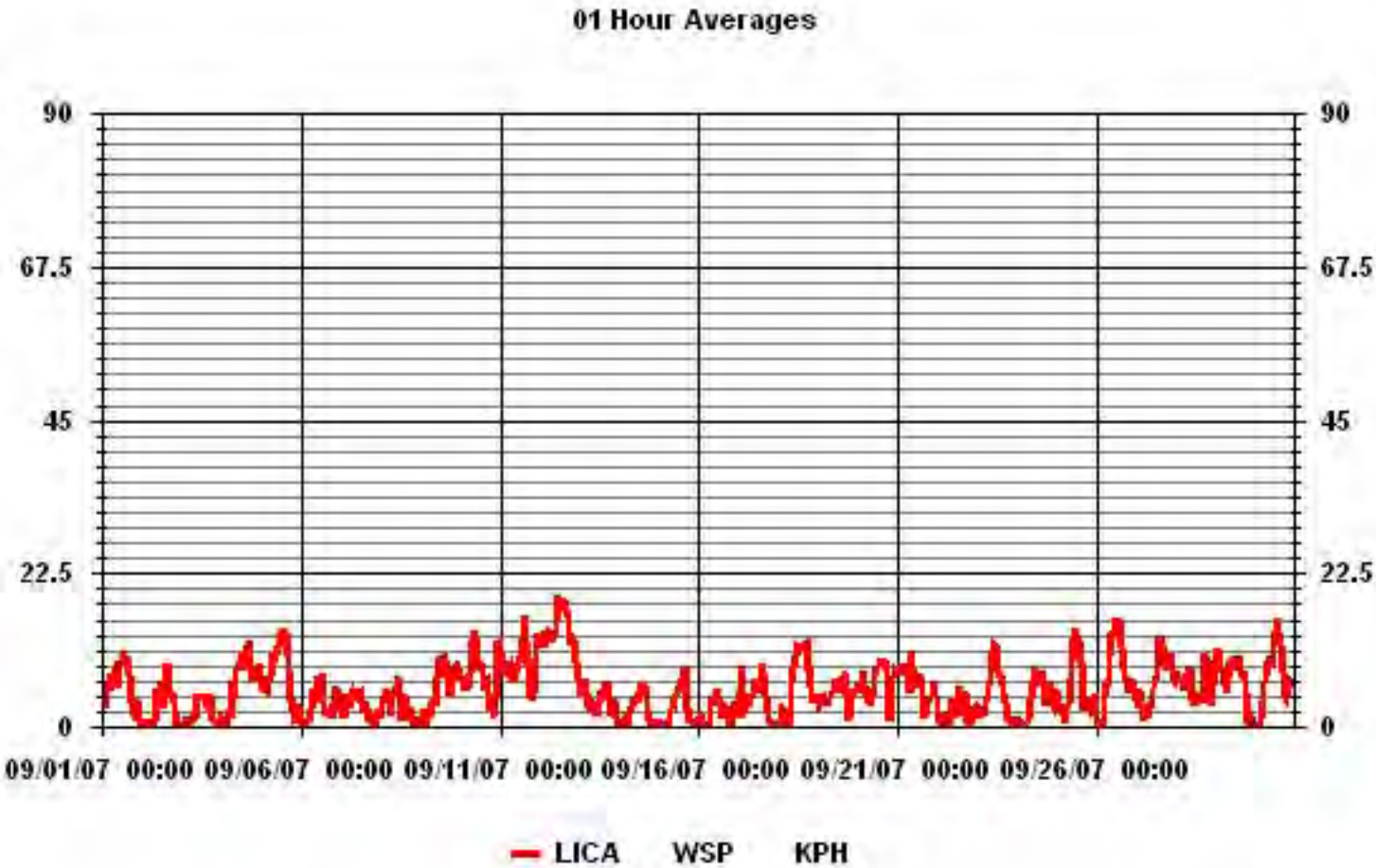
MONTHLY SUMMARY

MAXIMUM 1-HR AVERAGE:	19.4	KPH	@ HOUR(S)	12	ON DAY(S)	12
MAXIMUM 24-HR AVERAGE:	14.1	KPH			ON DAY(S)	12

CALMS (≤ 0 KPH)	4.44	%	OPERATIONAL TIME:	720	HRS
MONTHLY CALIBRATION TIME:	0	HRS	AMD OPERATION UPTIME	100.0	%
STANDARD DEVIATION	3.99		MONTHLY AVERAGE	5.41	KPH

MOUNTAIN STANDARD TIME

Maxxam Analytics Inc


01 Hour Averages
90
67.5
45
22.5
0
09/01/07 00:00
09/06/07 00:00
09/11/07 00:00
09/16/07 00:00
09/21/07 00:00
09/26/07 00:00
LICA WSP KPH

LICA
WSP / WD Joint Frequency Distribution (Percent)

September 2007

Distribution By % Of Samples

Logger Id : 01
Site Name : LICA
Parameter : WSP
Units : KPH

Wind Parameter : WD
Instrument Height : 10 Meters

Direction

	Limit	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Freq
<	6.0	.97	1.25	1.52	2.36	3.33	3.47	4.44	1.80	2.91	6.25	6.80	9.72	3.88	4.02	2.22	1.11	56.11
<	12.0	.83	.55	.27	.13	1.25	2.22	2.91	.27	.27	.27	4.16	5.13	4.30	4.72	2.63	1.11	31.11
<	20.0	.00	.00	.00	.00	.00	.13	1.38	.00	.00	.00	.00	.27	1.80	1.52	2.36	.83	8.33
<	29.0	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
<	39.0	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
>=	39.0	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	Totals	1.80	1.80	1.80	2.50	4.58	5.83	8.75	2.08	3.19	6.52	10.97	15.13	10.00	10.27	7.22	3.05	

Calm : 4.44 %

Total # Operational Hours : 720

Distribution By Samples

Direction

	Limit	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Freq
<	6.0	7	9	11	17	24	25	32	13	21	45	49	70	28	29	16	8	404
<	12.0	6	4	2	1	9	16	21	2	2	2	30	37	31	34	19	8	224
<	20.0						1	10					2	13	11	17	6	60
<	29.0																	
<	39.0																	
>=	39.0																	
	Totals	13	13	13	18	33	42	63	15	23	47	79	109	72	74	52	22	

Calm : 4.44 %

Total # Operational Hours : 720

Logger : 01 Parameter : WSP

Class Limits (KPH)

>= 39.0

< 39.0

< 29.0

< 20.0

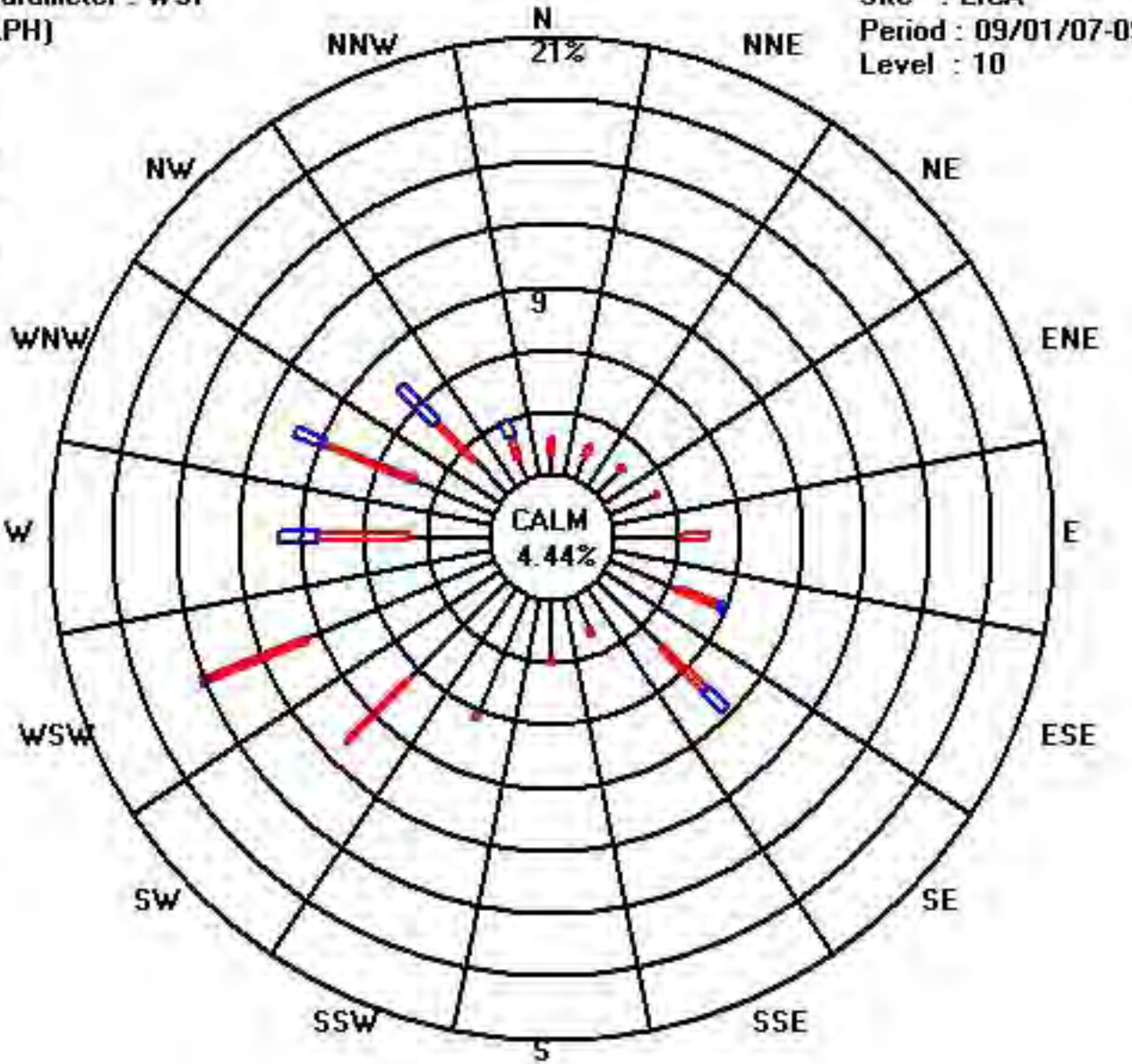
< 12.0

< 6.0

Site : LICA

Period : 09/01/07-09/30/07

Level : 10



LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - *COLD LAKE*

SEPTEMBER 2007

VECTOR WIND SPEED MAX instantaneous maximum in km/hr

HOUR START HOUR END DAY	0:00 1:00	1:00 2:00	2:00 3:00	3:00 4:00	4:00 5:00	5:00 6:00	6:00 7:00	7:00 8:00	8:00 9:00	9:00 10:00	10:00 11:00	11:00 12:00	12:00 13:00	13:00 14:00	14:00 15:00	15:00 16:00	16:00 17:00	17:00 18:00	18:00 19:00	19:00 20:00	20:00 21:00	21:00 22:00	22:00 23:00	23:00 0:00	DAILY MAX.
1	8.9	11.6	15.1	12.4	11.3	11.2	9.5	11.2	11.8	9.2	16.4	17.2	15.9	20.2	15.1	16.1	17.4	13.9	8.2	5.6	3.5	6.3	5.4	3.5	20.2
	N	WNW	NNW	NNW	N	NW	W	WNW	WNW	NW	WNW	WNW	WNW	NW	WNW	W	WNW	WNW	NW	NNW	SW	SW	SW	SW	NW
2	2.9	3.1	2.8	2.3	2.7	1.8	2.4	2.1	6.3	8.7	10.5	13.1	10.4	7.2	11.2	14.3	13.7	8.2	7.2	6.8	3.8	3.1	1.7	2.2	14.3
	SW	ENE	SW	SW	SW	ENE	ESE	WNW	ENE	ESE	SW	SE	SE	SE	SE	SE	SE	SE	SE	SE	ESE	ESE	ENE	SW	SE
3	1.2	1.4	1.7	2.8	2.1	3.8	3.5	5.3	5.2	9.9	7.6	6.8	6.7	7.9	9.6	7.3	6.6	7.6	3.3	2	2.6	1.7	1.9	3.3	9.9
	-	WNW	WSW	SW	SW	WNW	SW	NE	NNE	N	NNE	-	NE	E	E	NE	ENE	SE	SE	NNE	SE	SSE	NE	NNE	N
4	3.6	5	6	3.3	5.4	4.4	12.1	9.6	9.4	15.5	14.7	16.4	16.6	13.6	15.6	19	18.8	24.1	13.9	12.6	13.9	11.7	13.7	11.8	24.1
	NE	NE	WSW	ESE	SE	E	E	ENE	N	-	NNE	NNE	-	N	NW	WNW	WNW	W	W	WNW	WSW	WSW	WSW	WSW	W
5	11.1	9	8.5	9.7	12	9.9	12.9	14.8	16.1	18.1	19.2	22.1	22.9	23	19.8	22.7	18.2	13.4	7.6	3.4	2.1	2.9	3.4	4.9	23
	WSW	WSW	WSW	SW	WSW	WSW	WSW	WSW	W	WSW	W	WSW	W	WSW	W	WSW	W	WNW	WNW	WSW	SSW	W	SW	WSW	WSW
6	6.1	3.4	3.7	4.8	3.1	3.9	6.8	9	12.1	9	13.2	11.5	11	13.2	11.7	10.7	11.2	7.7	3.4	6.8	7.1	10.3	5.7	5.6	13.2
	SW	SE	SE	N	SE	NNE	E	E	SE	ESE	WSW	NNW	NE	N	W	NW	NE	SE	NW	SW	-	WNW	N	NE	N
7	5.4	3.3	5.7	7.4	7.5	6	5.9	9.7	8.5	8.3	11.7	11	10.8	8.5	6.7	11.6	6	3.7	3	9.4	12.5	8.1	4.4	12.1	12.5
	NE	S	NW	NNW	NW	NW	WNW	WNW	NW	WNW	NW	NNW	NNW	NNE	W	NNW	NE	SSE	SW	NNW	N	NNW	WSW	NW	N
8	3.7	7	7.6	8.7	6.8	6.8	5.1	9.2	10	11	11.8	11.6	9.6	16.8	16.5	8.9	8.2	9.9	7.9	1.9	3.5	4.9	3.2	3	16.8
	SW	SW	WSW	WSW	WSW	SW	WSW	WSW	WSW	WSW	W	SW	WSW	NNW	W	NE	NE	NW	NW	SSW	SW	SW	SW	SW	NNW
9	2	2.4	4.6	1.7	5.5	4.1	3.6	7	7.3	7.5	14.4	14.4	16.8	19.2	18.1	15.7	12.7	8.6	10.6	12.5	13.1	18.3	12	11.7	19.2
	WSW	SW	WSW	WNW	WSW	WSW	WSW	WSW	SW	SSW	WSW	SW	SW	SSW	SW	SW	SSW	SW	-	SSW	SSW	W	WSW	W	SSW
10	11.6	10.1	8.3	7.5	9.9	9.2	11.9	18.1	20.5	21.4	17.9	16.8	16.2	17.9	11.3	11	11.4	8.9	5.3	6.3	3	9.6	19.7	16.6	21.4
	W	WNW	W	WSW	WNW	NW	-	-	NW	N	WNW	NW	NW	NNW	NE	NE	E	E	ENE	E	ESE	E	ESE	ESE	N
11	16.9	14.6	14.2	10.7	11.4	13.3	13.6	13.2	13	15.5	15.4	15.6	15.7	18.6	17.6	26.7	20.4	15.4	8.6	7.8	11.5	17.6	19.3	19.8	26.7
	-	SE	SE	SE	ESE	SE	-	SE	-	SW	SSW	-	SW	-	W	WNW	NW	NW	WNW	WNW	WNW	NNW	NW	WNW	WNW
12	21.4	21.4	17.8	19.8	20.7	17.7	22.6	19.6	20	21	20.8	31.7	22.1	26.1	28.1	27.7	23.4	24.7	23.4	18.2	18.7	19.6	15.5	14.3	31.7
	NW	WNW	WNW	NW	WNW	WNW	WNW	WNW	WNW	WNW	NW	NW	NW	NW	NW	NW	NW	-	NW	NW	NNW	NNW	NW	NNW	NW
13	7.9	9.5	11.2	8.9	7.5	7.8	4.9	9.4	7.9	6.9	9	10.6	12.3	14.3	12.6	10.5	11.3	7.6	2.8	4.7	5.2	6	4.6	1.3	14.3
	NNW	NNW	NW	NNW	NW	WNW	WSW	SW	SW	SSW	WSW	SE	SSW	-	WSW	WSW	-	SW	S	SE	SE	SE	SE	SW	-
14	2.2	2	1.7	2	1.9	1.7	3.5	6.4	9	9.1	10.6	7.8	10.5	10.7	11.4	11.8	8.5	5.3	2.4	2	2.2	2	1.5	1.5	11.8
	W	NE	NNE	NNW	NNE	E	ESE	SE	SSW	SW	SW	WSW	SSW	WSW	SW	WSW	W	SSW	SSE	SSE	SW	WSW	SE	NE	WSW
15	2.3	1.3	8.3	2.7	1.9	2.7	3.5	5.6	6.5	7	8.6	11.3	10.4	14.1	13.8	14.8	14.6	7.5	1.6	4.8	2	1.8	3.7	2.5	14.8
	SSW	SSE	NNE	SW	NE	SE	SW	W	SSW	WNW	WSW	WSW	SSW	SW	SSW	SW	WSW	WSW	SSW	WNW	SE	SW	WNW	SSE	SW
16	2.3	5.2	3.2	2.9	3.6	3.3	2.5	5.5	8.8	6.4	8.8	11.5	9.6	9.8	8.1	7.2	7.4	3.1	3	3.7	3.7	6.3	10.4	11.3	11.5
	W	SW	SW	SE	-	SW	NNE	WSW	WSW	SSW	W	W	WNW	SW	SSW	NE	SE	SE	E	ENE	NE	SE	WNW	W	W
17	4.2	8.9	15.2	6.8	5.4	9	8.9	7.4	9.3	13.1	11	11	9.6	9.5	14.8	16.3	8.5	5.9	2.6	2.9	2.5	2.8	2.6	1.6	16.3
	SE	W	WNW	WSW	NW	WSW	WSW	WSW	WNW	WNW	WNW	WNW	NW	WNW	NW	WNW	-	NW	SSW	SW	SW	SW	SSW	ENE	WNW
18	2	3.7	7	5.3	4.6	3.7	2.5	7.2	12.9	15.2	16.3	18.2	18.5	19.7	20	18.7	20.1	18.7	14.4	9.2	8.5	6.7	6.9	5.8	20.1
	SW	WNW	WSW	-	W	W	NNE	W	W	-	NW	WSW	WSW	-	WNW	WNW	WNW	NW	NW	WNW	WNW	NW	WNW	WNW	WNW
19	4.2	4.5	5.4	6.6	5.7	7.5	5.5	9.9	9.1	11.6	12.1	18.1	10.8	11.4	14.7	14	13.4	8.5	5.2	2.7	7.9	7	6.7	8.3	18.1
	WSW	SW	WSW	WSW	WSW	WSW	SSW	SW	-	WNW	WNW	NW	WSW	SW	SW	SSW	SW	SW	-	-	SE	SE	SE	SE	NW
20	8.7	7.3	9.4	10.7	9.3	8.6	9	8	10.6	11.6	13.7	14.1	14.7	15.3	16	17.3	14.8	13.2	16.3	7.3	9.7	11.5	11.9	13.9	17.3
	SE	SE	SE	SE	SE	SE	SE	S	SW	SE	SSW	WSW	W	WSW	SW	-	WSW	SW	WSW	NNW	WNW	WSW	WSW	W	-
21	12.4	11.6	13.2	18.1	12.9	11.3	10.2	7.9	18.3	14.8	11.4	13.7	13.3	13.9	12	8.4	6.5	3.3	7.1	6.4	8.1	10.7	12.6	6.9	18.3
	W	W	W	WNW	WSW	W	WSW	WNW	NW	-	-	SSW	W	-	SW	SW	WSW	SE	ESE	E	SE	SE	SE	SE	NW
22	9.6	2.6	4.2	3.7	4.6	8.2	4.5	5.9	8.5	8.1	5.2	6.5	6.7	12.4	6.7	6.1	6.4	10	3.3	3.7	5.5	3.8	3.9	5.1	12.4
	ESE	ESE	E	E	SSE	WNW	SW	-	SE	NW	ESE	-	SE	SE	SE	SE	N	NW	SSE	SW	NNW	SE	SW	WSW	SE
23	4.6	3.1	4.2	4.3	4.8	7.1	6.6	9.2	13.9	17.8	19	18.2	15.6	12.8	13.6	9.9	8.3	9.1	3.4	2.3	3.2	4.6	3.5	3	19
	WSW	WSW	WSW	SW	WSW	WNW	WNW	WNW	NNW	NW	NW	NNW	NNW	NNW	N	NNW	NNE	NNW	NNE	SSE	W	E	SW	SW	NW
24	2.7	3.4	2.3	1.2	1.3	1.9	2.5	2.9	7.4	11.4	14.9	13.5	13.8	13.7	11.8	15.7	10.7	6.6	5.9	8.7	9.4	7.8	5.7	7.3	15.7
	SW	SE	SW	NE	W	E	SE	ESE	SW	SW	SW	WSW	SW	SW	SSW	SSW	S	SSE	SE	SE	SE	SE	S	S	SSW
25	9.6	8.2	5.3	4.4	7.6	2.5	4.8	8.5	12.7	16.8	21	22.2	20.3	20.2	16.7	17.3	18.7	6	6.2	6.3	5.2	5	5.7	6.3	22.2
	SW	SW	SW	SSW	NNW	SW	SW	SW	SW	WSW	W	WNW	WSW	W	WNW	SW	NNW	WSW	WSW	WSW	WSW	SW	SW	WSW	WNW
26	6.4	3	2.5	1.7	8.6	9	10.3	12.1	16.1	21.6	23.1	26.3	22.4	22.1	**36.2**	23.6	14.8	12.2	10.3	9.7	9.5	9.8	6.5	6.7	36.2
	WSW	SW	ESE	SE	WNW	SW	SW	SW	SW	WSW	WSW	WSW	W	W	**NW**	WNW	WNW	WNW	WNW	W	WSW	WSW	WSW	SW	NW
27	7	7.7	8.6	7	2.8	2.4	3	4.5	5.3	6.1	9.7	14	13.1	20.2	19	18.8	17.8	14.4	14	14.3	16.9	14.4	13.1	9.7	20.2
	WSW	SW	SW	WSW	SE	SE	SE	SE	ESE	E	SE	SE	SW	SE	SE	SE	SE	SE	ESE	ESE	ESE	ESE	-	E	SE
28	10.7	12.8	10.3	11.4	9	9.3	10.7	13.6	13.6	10	8	8.8	10.5	9.8	9.4	8.8	12.6	15.6	11.3	8.4	7.7	5.7	10.9	13.6	15.6
	ESE	E	E	E	E	ESE	SE	SE	SE	SE	SW	W	WNW	-	NW	N	NW	NW	NW	NW	NW	WNW	WNW	NW	NW
29	14.7	17.2	17.6	13.7	13.1	12.2	7.7	12.1	17.8	13.8	17	15	16.7	17.5	17.2	15.9	12.3	12.6	8.3	4.4	3.8	3.7	2.4	2.2	17.8
	WNW	NNW	NW	NW	NNW	NW	WNW	WNW	NW	WNW	WNW	WNW	NW	NW	WNW	NW	WSW	WSW	WSW	WSW	SW	SSW	W	SE	NW
30	4.1	4.1	3.1	3.1	6.9	9.3	10.3	13.3	14.9	14.6	15.9	20.4	22.5	23.3	21.7	19.2	13.6	8.9	6.2	8.9	10.7	9.6	9	8.8	23.3
	SW	E	WNW	ESE	ESE	SE	ESE	ESE	ESE	SE	SE	SE	SE	SE	ESE	SE	SE	SE	E	E	E	E	ESE	E	SE
PEAK	21.4	21.4	17.8	19.8	20.7	17.7	22.6	19.6	20.5	21.6	23.1	31.7	22.9	26.1	36.2	27.7	23.4	24.7	23.4	18.2	18.7	19.6	19.7	19.8	
	NW	WNW	WNW	NW	WNW	WNW	WNW	WNW	NW	WSW	WSW	NW	W	NW	NW	NW	NW	-	NW	NW	NNW	NNW	ESE	WNW	

STATUS FLAG CODES

S	- OUT OF SERVICE	IZS	- IZS - DAILY ZERO/SPAN CHECK
N	- INVALID DATA	M	- MAINTENANCE
D	- INSTRUMENT DRIFT	P	- POWER FAILURE
C	- CALIBRATION	NA	- NOT APPLICABLE

***INSTANTANEOUS MAXIUM BASED ON ONE-MINUTE AVERAGES**

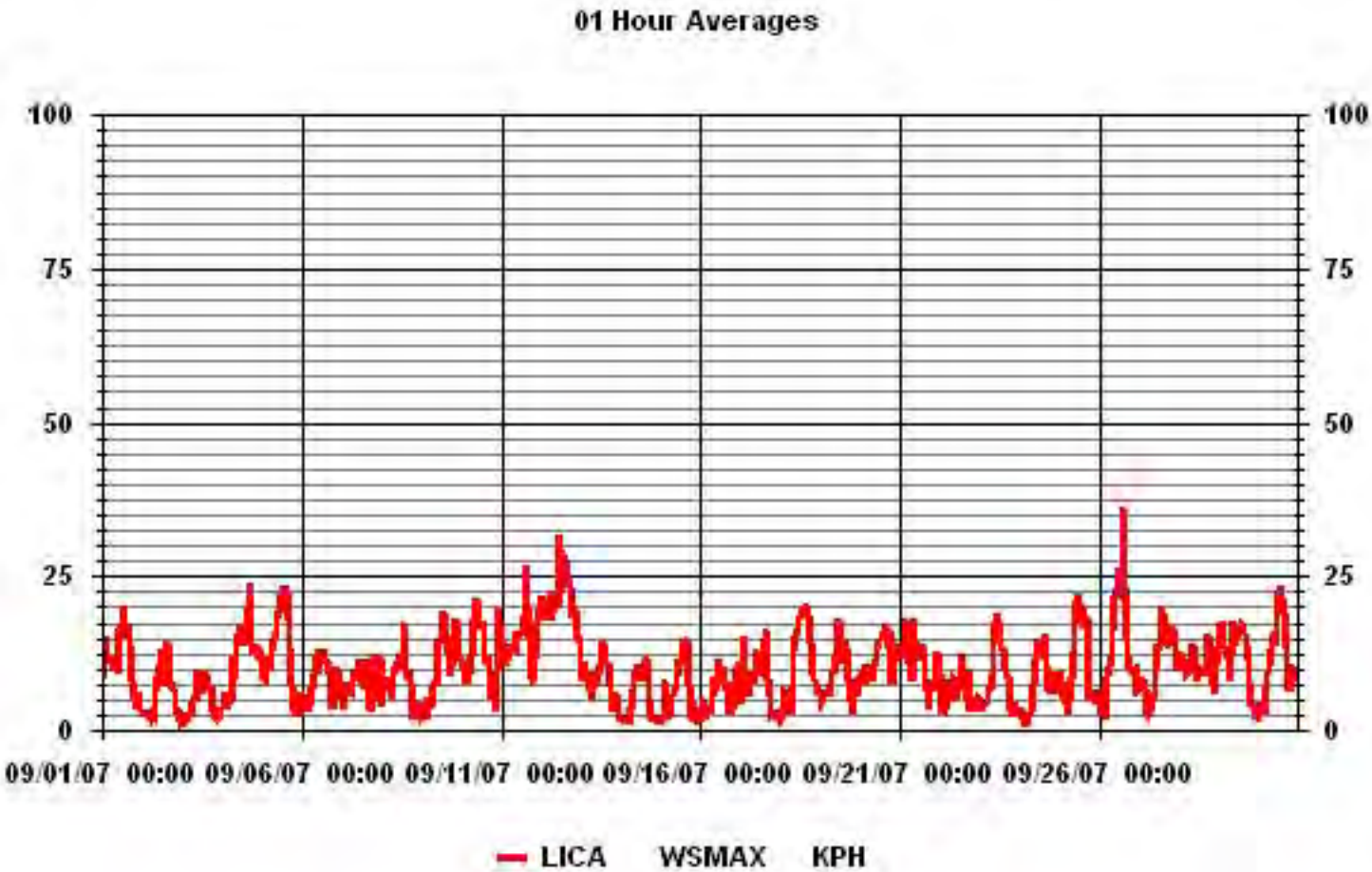
NOTE: WIND DIRECTION CORRESPONDS TO WIND SPEED MAXIMUMS

MONTHLY SUMMARY

MAXIMUM INSTANTANEOUS READING	36.2	KPH	@ HOUR(S)	17
	NW	DEG	ON DAY(S)	8

MOUNTAIN STANDARD TIME

Maxxam Analytics Inc


01 Hour Averages
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75
50
25
0
09/01/07 00:00
09/06/07 00:00
09/11/07 00:00
09/16/07 00:00
09/21/07 00:00
09/26/07 00:00
LICA WSMAX KPH

VECTOR
WIND DIRECTION

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - *COLD LAKE*

SEPTEMBER 2007

VECTOR WIND DIRECTION (WD) hourly averages in degrees

HOUR START	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24-HOUR	24-HOUR AVG	
HOUR END	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	AVG.	QUANDRANT	RDGS.
DAY																											
1	19	328	344	305	282	304	289	294	295	291	288	284	294	297	294	291	290	319	282	251	206	237	232	243	294	WNW	24
2	228	109	203	234	212	83	123	78	172	133	147	165	161	83	79	119	136	143	128	124	116	91	68	227	130	SE	24
3	99	273	216	228	250	223	210	352	56	25	31	42	53	74	80	70	114	133	100	28	117	118	70	35	64	ENE	24
4	275	50	253	69	62	79	88	70	347	10	14	21	21	0	338	298	293	273	264	271	258	258	254	248	316	NW	24
5	242	245	231	225	239	244	249	257	265	264	267	264	269	264	273	263	275	280	279	245	196	240	213	236	259	WSW	24
6	320	173	162	29	36	100	87	96	121	135	251	298	30	36	13	34	357	129	270	244	276	319	345	31	10	N	24
7	50	212	288	319	314	305	311	313	299	314	301	303	328	346	326	313	65	180	169	77	175	254	211	257	308	NW	24
8	187	238	250	251	246	244	210	252	264	245	253	245	240	12	332	35	3	269	302	206	212	238	217	237	256	WSW	24
9	210	156	249	333	245	220	232	235	225	203	222	240	225	220	227	227	215	203	204	208	220	253	237	263	227	SW	24
10	270	270	268	265	282	295	304	321	329	335	331	354	338	327	0	51	77	72	77	102	118	110	121	126	337	NNW	24
11	126	125	125	124	126	125	131	133	132	185	209	224	227	237	269	291	295	301	294	286	275	318	322	306	229	SW	24
12	304	298	297	302	304	299	307	304	299	294	301	313	310	318	319	326	331	326	323	314	321	337	332	333	313	NW	24
13	294	319	327	326	307	298	219	226	235	207	217	213	214	223	241	227	240	234	152	138	139	137	125	215	246	WSW	24
14	315	83	60	57	59	53	113	127	181	194	194	215	214	233	235	255	263	203	175	159	227	271	121	48	212	SSW	24
15	208	149	153	90	77	77	199	245	233	247	243	236	224	229	225	225	231	208	162	223	187	176	315	195	227	SW	24
16	228	243	233	134	151	137	17	238	237	246	244	250	242	238	184	81	108	166	160	63	111	123	139	266	219	SW	24
17	147	265	302	269	277	256	222	262	268	281	298	295	283	310	295	302	299	317	177	193	206	207	192	102	283	W	24
18	242	264	236	256	253	218	5	248	293	281	280	262	274	281	282	292	299	307	304	297	294	285	282	295	284	WNW	24
19	258	243	251	242	245	241	236	257	268	271	277	297	237	247	229	227	228	237	186	119	124	129	135	127	234	SW	24
20	135	131	127	126	126	127	132	193	190	177	225	234	240	243	240	264	239	233	257	328	272	258	252	267	218	SW	24
21	268	271	280	274	250	257	254	295	305	292	268	252	238	242	228	236	182	124	110	108	121	123	120	120	251	WSW	24
22	46	85	77	153	232	259	241	172	157	285	109	233	88	115	83	133	73	315	153	210	172	229	237	248	160	SSE	24
23	256	246	250	242	278	272	265	297	319	326	332	340	352	349	8	348	18	11	210	206	221	100	258	202	326	NW	24
24	208	204	202	117	173	185	134	137	233	233	237	240	216	222	214	221	195	174	135	133	135	143	178	186	201	SSW	24
25	209	205	197	199	202	184	225	227	228	245	263	278	271	265	284	250	283	242	260	250	237	224	229	241	251	WSW	24
26	211	192	80	113	225	226	218	219	229	248	252	271	264	260	286	280	274	275	272	268	256	249	241	238	257	WSW	24
27	243	239	235	238	122	138	130	126	123	97	115	123	190	148	133	132	131	122	111	110	115	116	105	99	131	SE	24
28	104	93	91	90	96	111	123	127	130	174	262	218	269	283	291	7	314	310	302	305	291	254	290	309	346	NNW	24
29	312	326	321	320	318	305	293	296	302	297	299	293	281	282	295	274	266	254	251	200	178	202	221	101	295	WNW	24
30	193	11	224	90	124	125	127	126	123	132	128	139	134	128	126	127	120	99	99	95	99	99	105	92	121	ESE	24
HOURLY AVG	320	328	344	333	318	305	311	352	347	335	332	354	352	349	338	348	357	326	323	328	321	337	345	333			

STATUS FLAG CODES

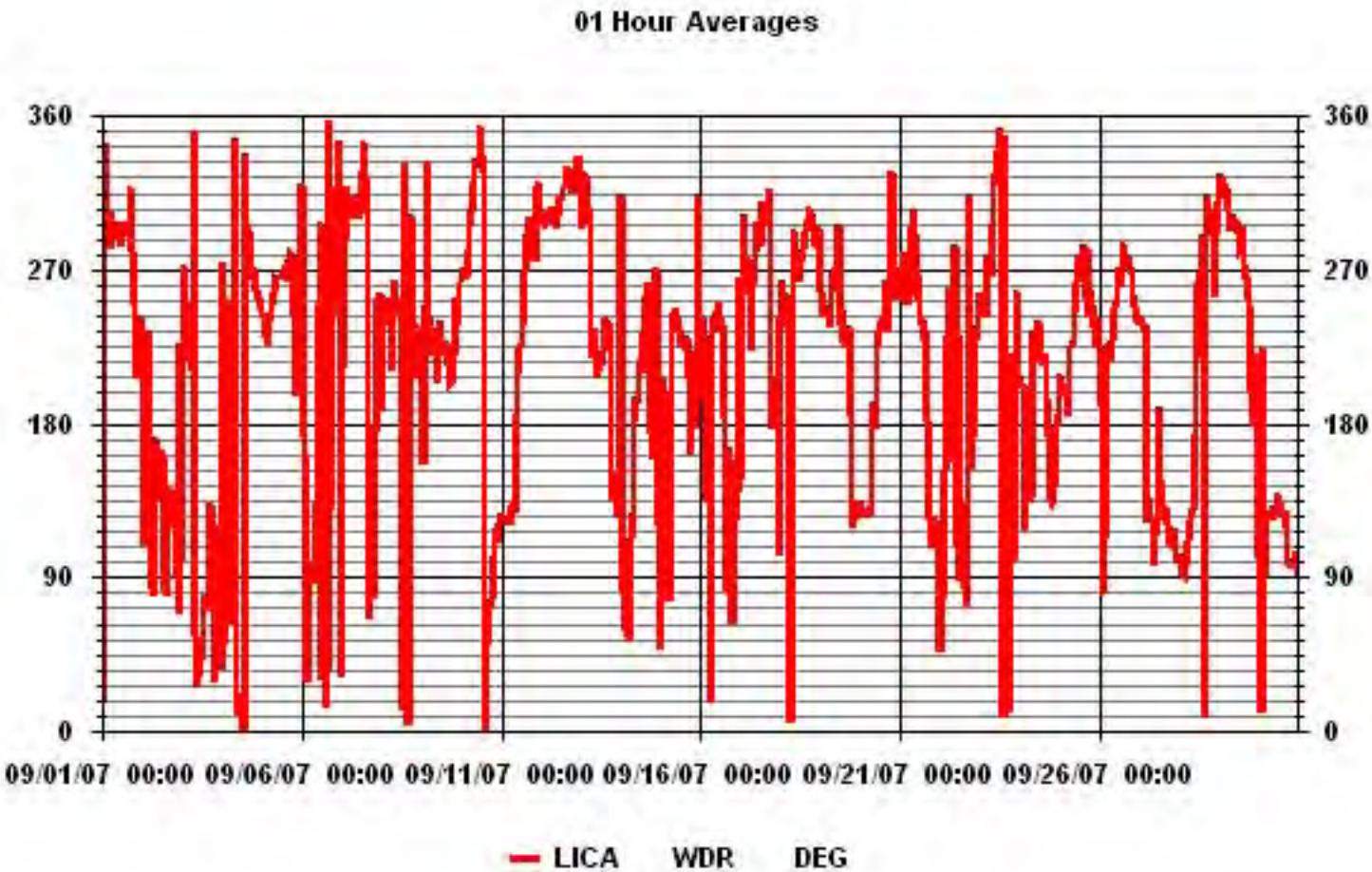
S	- OUT OF SERVICE	IZS	- IZS - DAILY ZERO/SPAN CHECK
N	- INVALID DATA	M	- MAINTENANCE
D	- INSTRUMENT DRIFT	P	- POWER FAILURE
C	- CALIBRATION	NA	- NOT APPLICABLE

LAST CALIBRATION:	NA
DECLINATION :	19 DEGREES FROM MAGNETIC NORTH

MONTHLY CALIBRATION TIME:	0	HRS	OPERATIONAL TIME:	720	HRS
STANDARD DEVIATION	83.81		AMD OPERATION UPTIME	100.0	%
			MONTHLY AVERAGE	265.00	DEG

Maxxam Analytics Inc

MOUNTAIN STANDARD TIME


01 Hour Averages
360
270
180
90
0
09/01/07 00:00
09/06/07 00:00
09/11/07 00:00
09/16/07 00:00
09/21/07 00:00
09/26/07 00:00
LICA WDR DEG

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - *COLD LAKE*

SEPTEMBER 2007

STANDARD DEVIATION WIND DIRECTION (STDWDIR) hourly averages in degrees

HOUR START	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00
HOUR END	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00
DAY																								
1	25	48	36	22	24	15	16	16	18	19	19	20	21	19	21	20	21	16	15	28	45	11	17	46
2	54	58	55	40	51	50	68	58	49	24	42	34	39	39	28	21	20	23	10	11	11	37	48	58
3	80	74	69	27	59	23	54	32	32	29	21	22	26	32	37	48	55	10	20	21	49	56	33	32
4	56	54	31	60	44	40	17	20	25	24	23	22	22	25	24	20	20	20	19	18	16	18	16	14
5	15	15	18	18	16	16	15	17	21	21	22	23	25	21	20	20	20	20	17	11	24	34	19	14
6	49	58	59	45	61	36	32	22	24	37	22	23	30	22	41	41	33	44	30	21	17	21	23	23
7	25	17	25	15	15	15	12	15	20	29	49	40	43	37	59	57	52	30	40	49	43	49	31	31
8	42	14	15	14	17	23	24	20	27	24	22	34	54	52	34	26	40	39	31	25	47	55	45	52
9	72	54	47	55	50	26	24	22	31	45	27	24	26	23	24	21	22	24	25	21	20	19	18	19
10	20	18	18	18	18	13	12	15	19	22	20	29	33	26	31	27	20	20	19	25	24	13	16	13
11	12	12	12	17	13	17	13	14	18	33	32	23	22	22	21	18	18	14	17	17	20	18	15	14
12	16	16	17	15	14	17	16	15	17	18	16	16	17	16	18	16	17	17	16	15	16	19	17	16
13	15	17	19	14	13	34	25	24	35	36	50	55	40	47	46	52	23	22	20	13	14	15	39	67
14	59	25	46	48	23	34	16	27	42	46	43	51	38	29	35	27	24	22	17	63	72	48	43	69
15	26	56	57	37	57	45	41	28	27	33	30	33	31	30	25	23	20	26	45	43	58	61	50	46
16	45	36	60	66	61	57	54	25	26	41	37	33	43	46	70	53	35	28	46	28	59	54	21	41
17	49	21	18	17	28	30	42	19	27	19	18	22	23	22	23	23	17	27	48	42	49	54	45	51
18	52	38	22	37	63	38	60	27	21	25	23	23	26	24	20	21	16	15	17	15	15	15	17	11
19	14	12	13	8	9	13	13	24	27	29	34	32	43	43	36	33	21	17	32	28	10	12	15	11
20	20	16	14	11	11	14	28	38	40	39	31	27	27	23	24	24	22	18	26	31	33	19	15	19
21	20	20	19	21	15	19	15	19	18	23	31	34	31	28	25	27	29	19	17	17	17	14	16	16
22	41	57	21	45	43	46	43	67	56	28	49	43	48	19	42	22	32	15	54	44	27	47	10	10
23	14	48	26	41	19	16	20	19	18	16	18	19	21	26	21	22	23	25	45	47	43	38	74	20
24	56	39	43	57	35	51	56	25	20	22	24	28	37	39	38	29	35	36	19	13	16	36	49	39
25	25	28	35	28	55	54	23	19	20	21	22	23	22	21	19	30	44	18	16	17	16	23	22	11
26	39	37	42	70	60	22	19	18	17	17	19	21	19	18	20	19	19	18	19	18	16	12	11	8
27	11	49	10	36	37	30	21	42	16	25	26	26	40	30	16	17	13	14	19	19	18	17	19	21
28	21	22	18	18	19	20	13	13	15	32	34	53	48	41	48	30	18	11	12	11	17	15	15	15
29	14	17	16	14	15	13	12	16	14	18	20	32	24	29	25	30	22	15	12	27	58	28	38	38
30	62	65	74	43	19	10	10	11	14	14	21	25	20	17	14	16	17	17	19	18	21	20	20	17

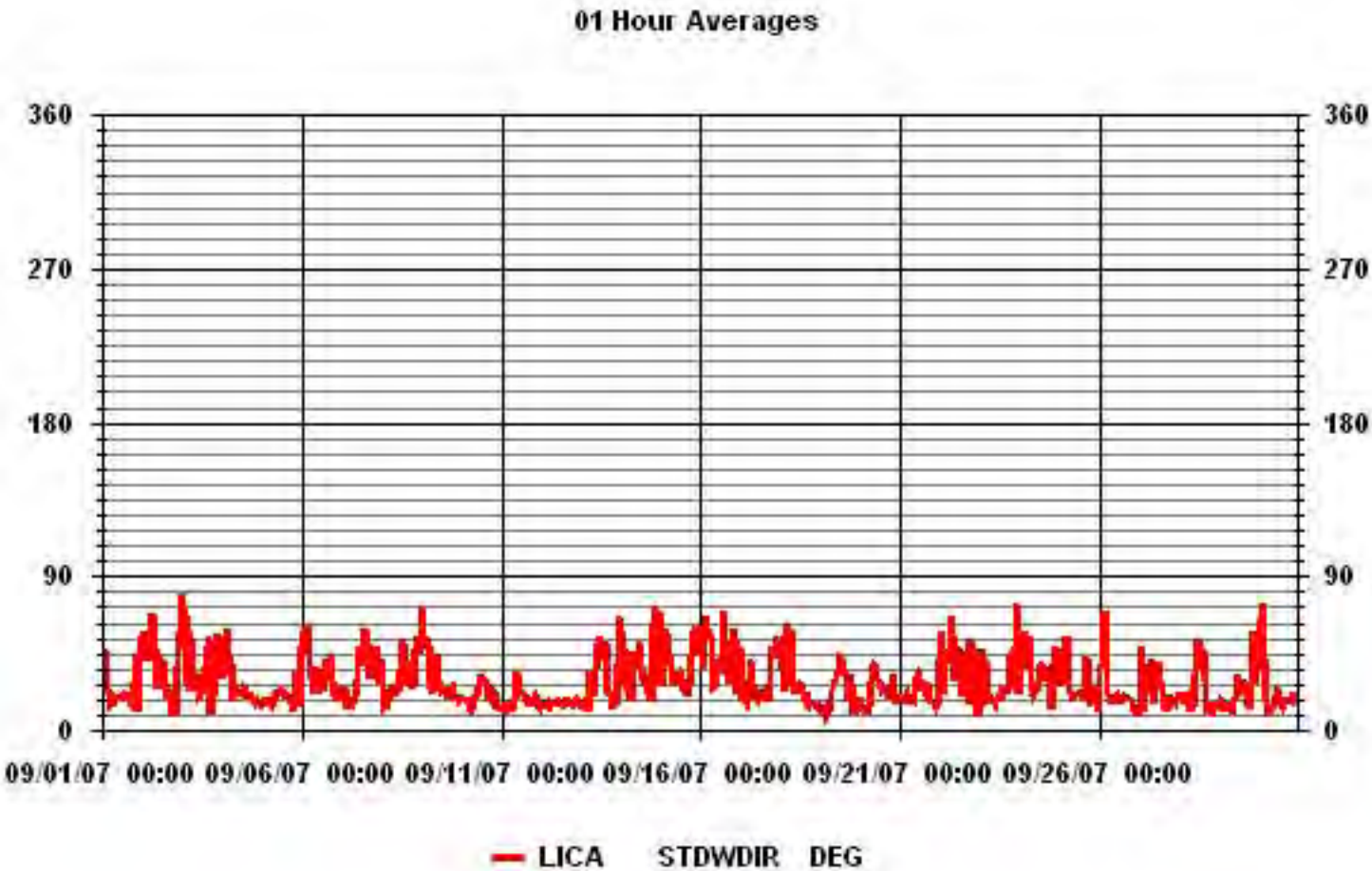
STATUS FLAG CODES

S	- OUT OF SERVICE	IZS	- IZS - DAILY ZERO/SPAN CHECK
N	- INVALID DATA	M	- MAINTENANCE
D	- INSTRUMENT DRIFT	P	- POWER FAILURE
C	- CALIBRATION	NA	- NOT APPLICABLE

LAST CALIBRATION: NA

CALIBRATION TIME: 0 HRS OPERATIONAL TIME: 720 HRS

MOUNTAIN STANDARD TIME


01 Hour Averages
360
270
180
90
0
09/01/07 00:00
09/06/07 00:00
09/11/07 00:00
09/16/07 00:00
09/21/07 00:00
09/26/07 00:00
LICA STDWDIR DEG

TEMPERATURE

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - *COLD LAKE*

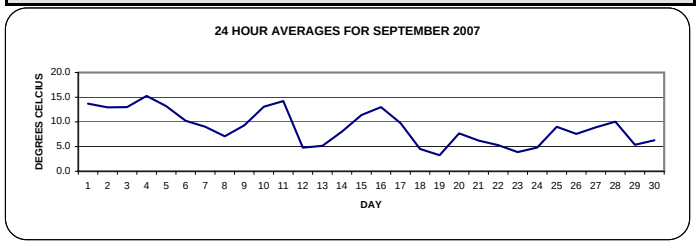
SEPTEMBER 2007

AMBIENT TEMPERATURE hourly averages (Degrees C)

HOUR START	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	DAILY	24-HOUR	
HOUR END	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	MAX.	AVG.	RDGS.
DAY																											
1	13.9	13.4	13.1	12.4	12.1	11.9	11.8	11.8	12.2	12.8	13.5	14.8	16.3	17.2	17.5	18.4	18.4	18.7	17.7	13	10.2	10.1	9.4	8	18.7	13.7	24
2	7.1	6.6	6.4	5.9	5.2	5.1	6.5	10.8	13.4	15.7	18.1	19.3	18.5	18.4	19.4	20	19.9	18.5	16.6	15.1	13.4	11.9	10.1	8.8	20.0	12.9	24
3	8	7.8	7.9	7.5	7.4	7.8	8.6	10.1	11.8	13.9	14.1	14.7	16.1	18.4	19.8	20.3	20.3	18.9	17.1	14.7	12.7	11.5	11.1	11.3	20.3	13.0	24
4	11.4	11.2	12.2	12.2	11.7	11.7	12.8	13.7	14.2	15.4	16.3	18	18.4	20.1	21.1	21.2	19.9	19.2	17.8	15.6	14.5	13.6	12.4	11.6	21.2	**15.3**	24
5	10.5	9.9	9	8.3	8.8	8.8	9.3	10.8	12.5	14.1	15.3	16.4	17.5	18.1	17.9	18	17.7	16.5	15.5	14	12.5	12	11.5	11.8	18.1	13.2	24
6	11.5	10.3	9.3	9.1	8.8	8	9.7	10.8	11.6	12.8	12.1	12.3	13.6	11.7	10.7	10.5	9.9	9.8	9.5	9	9	8.7	8.4	8.3	13.6	10.2	24
7	8	7.5	7.4	7.1	6.9	6.9	6.8	7.3	7.7	8.6	9.4	10.2	11.1	11.2	12.5	13.6	13.6	12.9	10.2	9.3	8	7.5	6.1	6.7	13.6	9.0	24
8	6.2	5.6	6.1	5.9	5.4	4.5	4.5	5.1	5.9	6.9	8.7	10.9	12.4	7.6	9.1	10.6	11.2	12.1	10.4	6.9	4.9	3.8	3.1	2.2	12.4	7.1	24
9	1.5	1	1.1	0.5	1	1.7	2	3.4	5.6	8.5	12.1	13.9	15	15.3	15.7	15.6	15.4	14.8	13.9	13.4	13.4	12.9	12.5	13.1	15.7	9.3	24
10	12.8	12.6	12.2	11.7	11.7	11	11.4	12.6	13.2	13.6	14.2	15.1	15.9	16	17	17	15.8	15.4	13.9	11.8	9.2	9.4	10.4	9.7	17.0	13.1	24
11	9.6	9.3	9	9.1	9.1	9.1	9.2	10	11.8	14.8	16.9	18.4	19.6	21.6	21.2	19.9	18.9	18.1	16.8	14.9	14.5	14.1	13.3	12	21.6	14.2	24
12	10.4	9.5	8.2	7	6.1	5.3	4.6	3.8	3.8	3.8	3.9	3.9	3.7	3.9	4.2	4.1	4.4	4.6	4	3.6	3.5	3.5	3	2.2	10.4	4.8	24
13	1	1.3	2.3	2.1	1.8	1.7	2.2	2.6	3.3	4.1	5.8	7.4	8.7	10	10.8	11.6	11.5	11.4	8	4.5	4.5	3.9	2.6	0.6	11.6	5.2	24
14	0	-0.6	-1.1	-1.4	-1.4	-1.5	0.1	4.1	6.6	9.1	11.2	13.2	14.9	16.5	17.7	18.2	18.2	17.9	14.4	10.2	8.3	7.1	6	4.9	18.2	8.0	24
15	3.9	3.4	3	2.9	2.3	2.2	2.9	7	10.2	13.5	16.3	18.5	20.1	21.2	21.9	21.9	21.9	20	15.8	12.4	10.1	8.4	7.2	6.4	21.9	11.4	24
16	5.9	5.1	4.7	3.9	3.5	3.1	3.6	8.4	12.6	15.6	18	19.8	21	22.1	22.8	**23.3**	22.6	22	16.8	13.3	11.2	10	11.9	10.7	23.3	13.0	24
17	9	10.2	12	11.3	10.6	10.2	9.9	9.8	9.8	10	10.5	11.1	11.9	12.7	13.6	14.4	13.9	15	10.5	6.5	4.5	3.2	2.2	1.4	15.0	9.8	24
18	0.5	0.1	0.6	0.7	-0.4	-0.8	-0.2	2.4	5.6	7.2	7.8	8.6	8.9	9.1	8.6	7.8	7.4	6.4	5.8	5.4	5	4.7	4.2	3	9.1	4.5	24
19	1.4	-0.2	-0.4	-1.1	-1.3	-2	-1.6	0.2	1.8	3.3	4.9	5.8	6.8	7.9	8.6	8.9	8.6	8.1	5.5	2.2	1.7	3.1	3.2	2.7	8.9	3.3	24
20	3	3	2.7	3	3.3	3.4	4.1	4.9	6.1	7.6	9.1	10.5	11.7	12.5	13.4	13.9	13.4	12.7	9.9	7.7	7.7	7.3	7	6.3	13.9	7.7	24
21	5.5	4.4	3.6	4	3.1	3.7	3.4	3.6	4.5	5.2	6.2	7.6	8.3	8.9	9.1	9.6	9.6	9.1	8.5	7.5	6.6	6.3	5.9	5	9.6	6.2	24
22	3.7	2.2	1.4	1	-0.1	-0.3	-0.2	1.5	3.9	6.8	8.1	9.2	9.6	10.6	11.3	12.1	12.6	12.5	8.3	4.9	3.2	2.3	1.3	1.3	12.6	5.3	24
23	0.5	0.1	-0.4	1.4	3.5	4.7	4.7	5	5.6	6.1	6	6	5.8	5.8	5.8	5.9	6.2	6.2	5.4	4.6	3.9	1.9	0	-1.4	6.2	3.9	24
24	-2.1	-2.7	-3.2	-3.6	-4.1	**-4.6**	-4.2	-1.2	2	5.4	8	9.4	10.8	11.9	12.8	13.1	12.8	12	9.3	8	7.1	6.2	6.2	6.1	13.1	4.8	24
25	7.2	7.6	7	6.3	4.4	4.1	4.8	5.9	9.5	12.5	13.5	14.5	15.2	15.2	14.5	15	11.1	11	9.9	8.6	6.6	4.9	3	4	15.2	9.0	24
26	3.9	2.6	2.4	2.4	3.2	5	6.2	6.5	8.3	10.1	11.8	13	10.2	11.4	12.6	9.1	10.8	10.5	9.4	8.9	7.3	6.8	5.2	4.1	13.0	7.6	24
27	3	1.3	2.8	2.3	0.3	-0.6	0	2.2	5.4	8.8	11.3	14	15.9	16.4	16.1	16.3	15.8	14.5	13.3	12.4	11.7	11.1	10	9.3	16.4	8.9	24
28	9.4	9.3	8.8	8.3	7.9	7.5	7.1	7.7	9.1	10.1	11.3	12.2	13.6	14.2	14.8	14.8	13.9	11.8	9.9	8.8	8.3	6.5	7.6	8.3	14.8	10.1	24
29	8.2	7.8	7.3	6.9	6.4	5.8	5.1	4.9	4.5	4.4	5	6.7	7.6	8.4	9.2	9.9	9.6	8.1	5.7	2.5	0.1	-1.2	-1.9	-2.2	9.9	5.4	24
30	-2.6	-1.5	-0.8	-1	-0.3	0.6	1.1	2.2	4.3	6.2	9.9	12	12.7	13	12.7	13	12.7	11.5	9.5	8.3	7.5	7	6.6	6.1	13.0	6.3	24
HOURLY MAX	13.9	13.4	13.1	12.4	12.1	11.9	12.8	13.7	14.2	15.7	18.1	19.8	21.0	22.1	22.8	23.3	22.6	22.0	17.8	15.6	14.5	14.1	13.3	13.1			
HOURLY AVG	5.7	5.3	5.2	4.9	4.6	4.5	4.9	6.3	7.9	9.6	11.0	12.2	13.1	13.6	14.1	14.3	13.9	13.3	11.3	9.3	8.0	7.3	6.7	6.1			

STATUS FLAG CODES

S	- OUT OF SERVICE	IZS	- IZS - DAILY ZERO/SPAN CHECK
N	- INVALID DATA	M	- MAINTENANCE
D	- INSTRUMENT DRIFT	P	- POWER FAILURE
C	- CALIBRATION	NA	- NOT APPLICABLE



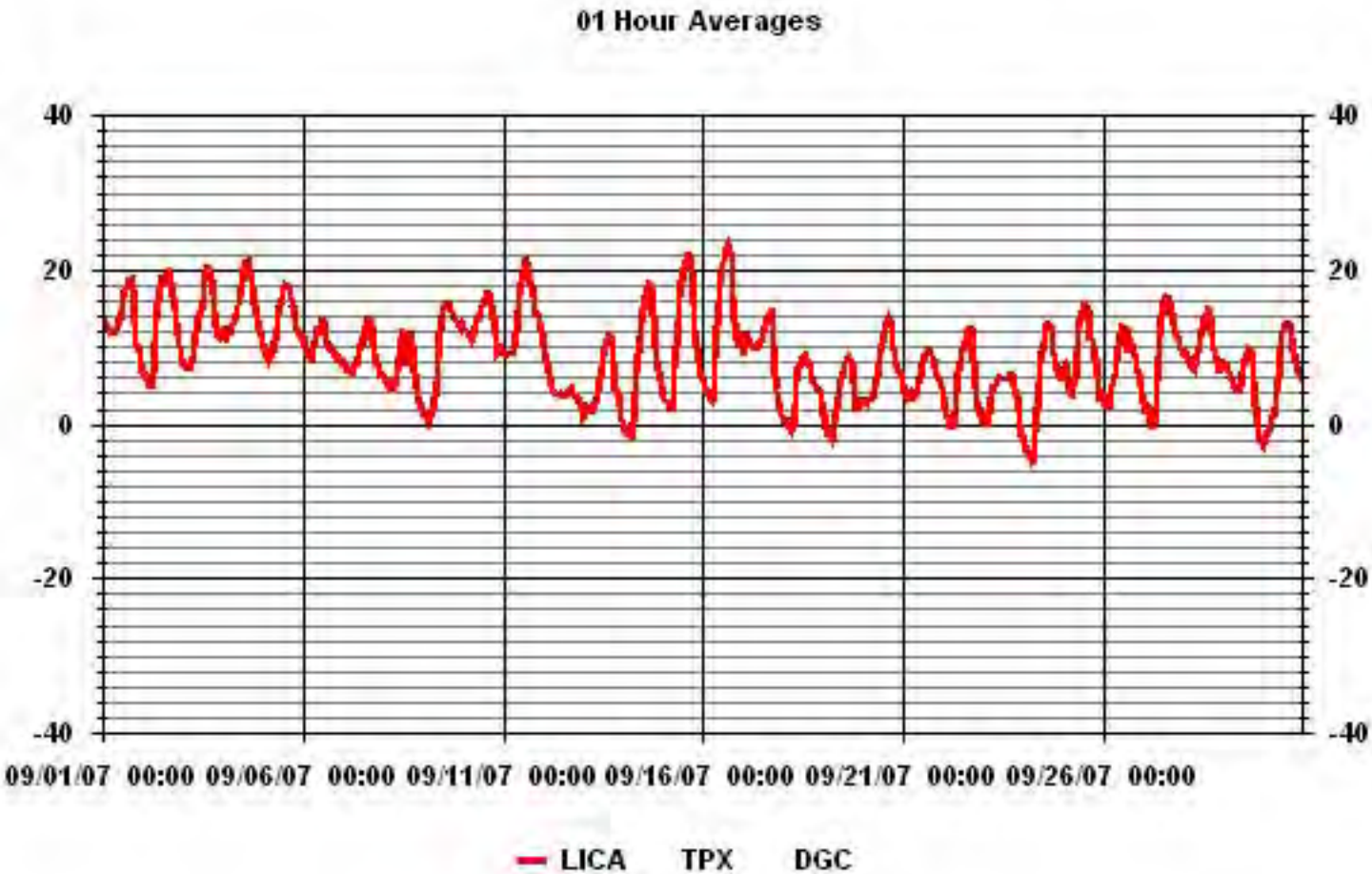
MONTHLY SUMMARY

MINIMUM 1-HR AVERAGE:	-4.6	^{o}C	@ HOUR(S)	6	ON DAY(S)	24
MAXIMUM 1-HR AVERAGE:	23.3	^{o}C	@ HOUR(S)	16	ON DAY(S)	16
MAXIMUM 24-HR AVERAGE:	15.3	^{o}C			ON DAY(S)	4

CALIBRATION TIME:	0	HRS	OPERATIONAL TIME:	720	HRS
			AMD OPERATION UPTIME:	100.0	%
STANDARD DEVIATION:	5.50		MONTHLY AVERAGE:	8.87	^{o}C

MOUNTAIN STANDARD TIME

Maxxam Analytics Inc


01 Hour Averages
40
20
0
-20
-40
09/01/07 00:00
09/06/07 00:00
09/11/07 00:00
09/16/07 00:00
09/21/07 00:00
09/26/07 00:00
LICA TPX DGC

RELATIVE HUMIDITY

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION - *COLD LAKE*

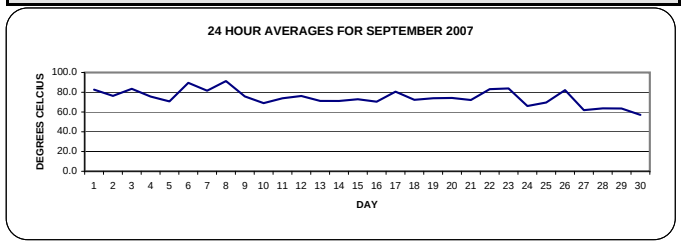
SEPTEMBER 2007

RELATIVE HUMIDITY hourly averages (%)

HOUR START	0:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	DAILY	24-HOUR	
HOUR END	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	0:00	MAX.	AVG.	RDGS.
DAY																											
1	86.9	88.0	90.8	95.9	97.4	97.9	97.9	97.4	96.2	94.7	92.6	85.4	75.9	64.2	60.5	52.7	54.5	51.6	55.5	79.8	91.8	89.8	91.1	95.4	97.9	82.7	24
2	95.6	95.5	96.1	96.3	96.1	96.1	95.3	85.3	77.8	70.1	61.5	53.1	54.6	51.6	51.7	49.9	51.3	56.5	66.1	72.3	82.5	89.3	93.5	94.5	96.3	76.4	24
3	95.0	95.3	95.2	95.9	96.4	96.1	96.6	95.8	93.0	86.5	82.2	79.7	73.5	63.3	52.3	50.3	52.1	63.5	76.7	88.1	93.4	94.2	94.3	93.8	96.6	83.5	24
4	94.8	95.5	92.9	94.3	95.0	94.0	87.2	85.4	86.5	79.3	74.8	67.7	65.7	61.7	56.7	52.8	56.5	54.3	57.9	64.5	67.4	72.0	76.9	81.4	95.5	75.6	24
5	86.3	88.7	91.2	92.9	89.7	88.3	84.8	78.6	73.0	67.4	61.6	54.1	47.6	44.1	46.1	44.4	46.6	48.9	55.0	68.9	80.4	85.5	89.3	84.2	92.9	70.7	24
6	86.3	91.7	94.1	94.6	94.3	94.0	89.6	81.1	79.6	77.4	84.4	85.8	77.5	84.0	89.6	88.8	91.9	92.6	95.7	96.7	96.9	94.8	94.2	93.4	96.9	89.5	24
7	91.1	93.6	95.0	97.0	97.5	96.8	95.2	92.7	86.5	79.2	70.4	66.4	64.0	64.1	57.3	52.5	53.1	60.9	80.5	83.7	94.2	93.7	96.9	95.9	97.5	81.6	24
8	96.5	97.1	96.2	97.0	96.9	97.3	98.1	98.6	98.9	98.1	88.9	80.3	74.1	91.9	89.5	81.3	76.1	72.5	82.3	94.7	96.1	96.6	96.9	96.7	98.9	**91.4**	24
9	96.6	96.4	96.8	96.9	97.4	98.1	98.3	98.8	**99.1**	97.5	74.6	59.7	56.2	54.5	48.7	49.2	51.9	56.5	60.2	61.5	59.2	67.5	72.3	70.8	99.1	75.8	24
10	72.7	76.5	80.4	84.2	86.3	89.8	86.5	74.2	66.2	63.9	60.0	54.7	50.9	50.0	49.0	48.7	50.8	54.7	65.3	73.5	85.8	82.2	73.2	76.0	89.8	69.0	24
11	76.5	80.1	84.9	85.3	86.5	87.2	88.1	85.5	79.7	69.4	64.0	62.4	62.1	57.0	58.3	61.5	65.5	65.8	70.6	77.9	77.6	76.4	75.6	76.2	88.1	73.9	24
12	73.6	70.7	68.5	73.1	75.1	79.3	79.6	78.8	75.5	75.6	77.8	76.6	78.3	73.1	73.1	73.4	76.6	73.7	77.0	81.5	81.6	75.6	79.6	82.1	82.1	76.2	24
13	87.4	85.4	81.7	81.7	83.6	85.1	85.0	83.0	77.8	72.6	64.6	60.5	55.2	50.7	47.8	44.2	42.3	44.2	65.2	81.6	76.0	78.2	84.1	91.4	91.4	71.2	24
14	91.8	92.3	92.5	92.8	91.0	91.1	87.0	73.9	66.6	58.7	52.8	50.2	47.7	43.5	39.4	39.7	41.1	46.2	66.2	82.3	87.5	91.2	91.2	92.3	92.8	71.2	24
15	93.1	93.9	93.7	93.5	94.4	92.8	92.8	86.7	76.7	67.6	60.4	54.1	48.8	42.8	38.1	37.0	34.9	43.4	67.5	79.5	86.3	89.5	90.1	92.7	94.4	72.9	24
16	93.8	94.0	91.0	92.8	92.9	93.4	90.7	77.1	63.4	55.6	48.2	43.1	41.9	41.2	39.5	38.4	40.4	48.4	71.8	83.9	88.4	91.4	82.5	87.7	94.0	70.5	24
17	92.4	88.9	83.9	91.4	95.3	95.4	97.0	95.6	93.5	90.2	81.4	75.7	67.4	60.5	50.0	46.7	49.5	47.6	71.0	87.9	92.0	93.7	93.7	93.7	97.0	80.6	24
18	94.5	95.0	94.3	92.8	94.5	94.7	92.4	88.4	81.6	72.3	61.7	55.1	53.1	51.8	52.0	54.1	54.1	55.2	58.4	61.4	64.3	68.3	70.7	76.1	95.0	72.4	24
19	84.1	89.9	91.6	93.1	93.5	93.8	92.9	88.7	83.9	75.8	65.7	58.7	53.9	49.5	46.4	47.0	48.1	52.1	68.2	82.3	83.5	77.2	76.4	78.7	93.8	74.0	24
20	76.8	78.1	79.6	78.6	79.7	83.1	86.6	86.9	81.0	74.0	68.1	63.8	59.0	55.2	51.9	47.8	50.0	53.6	74.4	87.8	90.2	91.9	92.5	91.2	92.5	74.2	24
21	89.8	87.3	84.6	80.5	84.0	78.9	80.6	81.7	76.7	72.8	68.3	61.8	59.8	58.0	56.9	56.4	58.0	64.7	67.2	69.5	71.2	70.9	73.4	78.4	89.8	72.1	24
22	83.6	90.4	91.6	92.4	94.3	93.9	95.5	93.0	87.2	76.1	72.5	71.6	78.4	73.5	68.8	66.9	65.3	56.4	77.5	90.0	92.5	94.0	94.8	95.6	95.6	83.2	24
23	95.6	95.7	95.3	96.5	97.1	96.0	93.5	90.0	83.6	77.8	74.9	73.4	72.6	72.3	70.9	69.2	66.5	67.0	76.6	83.4	86.8	90.7	93.1	94.0	97.1	83.9	24
24	93.9	92.9	92.7	92.3	91.6	91.6	89.7	85.3	82.7	70.4	57.4	50.4	46.1	40.6	40.3	39.6	40.4	43.9	53.3	55.5	57.5	60.1	58.5	59.6	93.9	66.1	24
25	58.7	60.4	65.2	69.8	78.6	80.4	78.4	74.9	62.1	54.8	53.1	51.0	48.7	47.0	48.8	49.3	80.7	79.7	78.4	82.0	88.9	91.5	94.3	94.6	94.6	69.6	24
26	94.2	95.6	95.5	95.4	96.4	93.0	90.0	92.4	87.4	77.6	68.6	59.3	70.8	65.7	63.1	80.6	73.2	74.4	76.7	76.7	83.4	83.5	88.1	90.3	96.4	82.2	24
27	92.0	95.0	92.1	91.4	94.3	95.7	95.7	89.3	78.8	64.9	57.2	48.2	35.1	33.4	34.9	32.9	33.6	36.6	39.6	42.2	45.7	48.1	53.1	56.3	95.7	61.9	24
28	56.2	57.3	60.0	63.3	66.1	68.0	69.3	67.7	63.5	61.5	59.8	57.5	55.8	53.3	51.7	52.2	54.0	60.1	68.4	74.4	74.8	83.1	77.5	73.4	83.1	63.7	24
29	75.3	72.9	69.3	68.3	67.8	70.4	73.5	78.2	66.3	61.2	58.5	52.4	49.1	47.2	42.2	40.3	40.4	44.9	51.2	67.1	77.2	81.8	84.8	84.9	84.9	63.6	24
30	86.9	86.7	87.1	86.6	80.0	72.0	68.8	64.2	57.7	53.0	41.7	32.7	31.6	32.5	34.3	35.3	37.1	42.0	47.9	51.8	55.6	58.5	61.6	65.1	87.1	57.1	24
HOURLY MAX	96.6	97.1	96.8	97.0	97.5	98.1	98.3	98.8	99.1	98.1	92.6	85.8	78.4	91.9	89.6	88.8	91.9	92.6	95.7	96.7	96.9	96.6	96.9	96.7			
HOURLY AVG	86.4	87.4	87.5	88.6	89.5	89.5	88.6	85.0	79.4	73.2	66.9	61.5	58.5	55.9	53.7	52.8	54.6	57.1	67.4	76.1	80.3	82.0	83.1	84.5			

STATUS FLAG CODES

S	- OUT OF SERVICE	IZS	- IZS - DAILY ZERO/SPAN CHECK
N	- INVALID DATA	M	- MAINTENANCE
D	- INSTRUMENT DRIFT	P	- POWER FAILURE
C	- CALIBRATION	NA	- NOT APPLICABLE



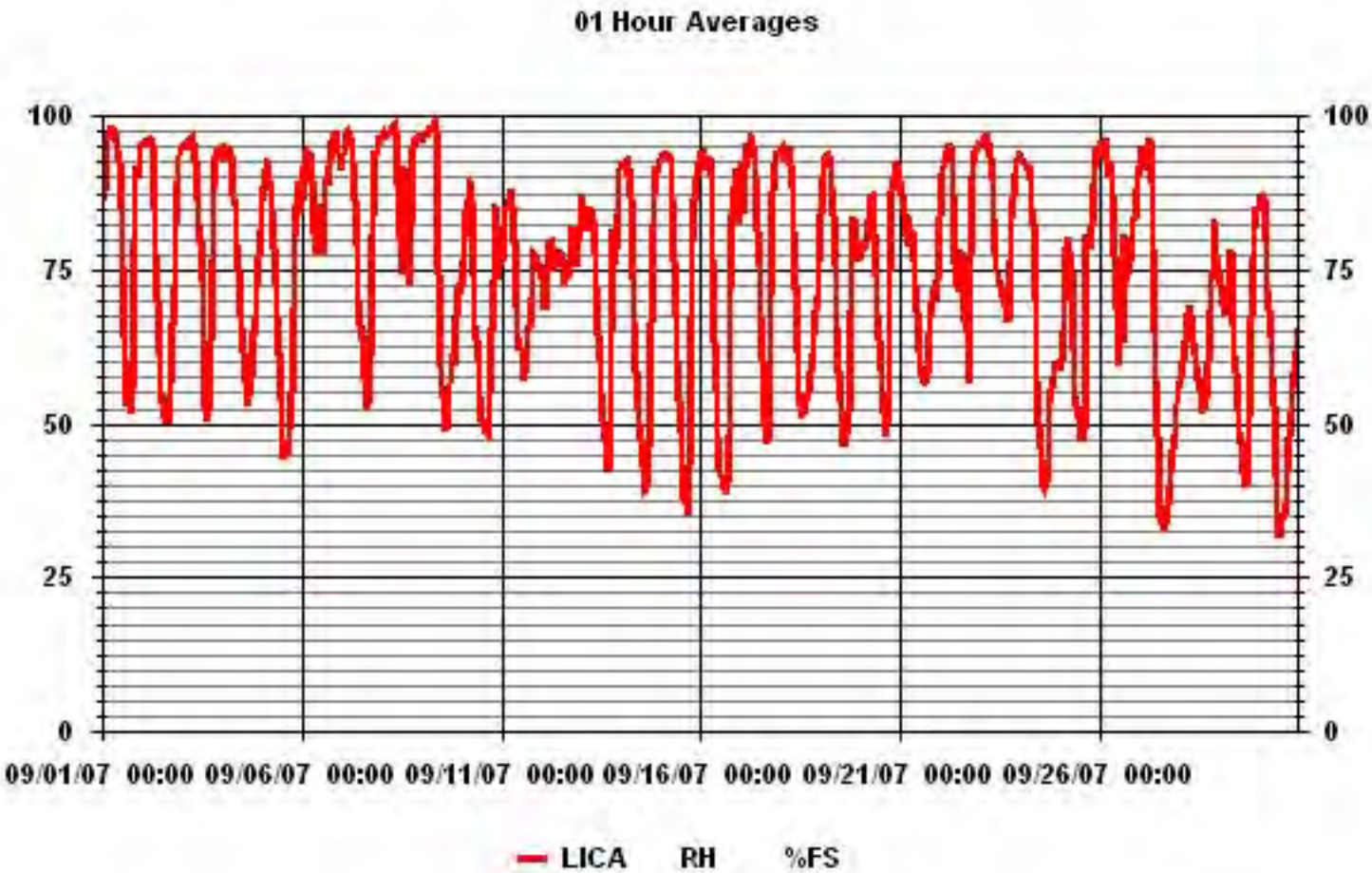
MONTHLY SUMMARY

MAXIMUM 1-HR AVERAGE:	99.1	%	@ HOUR(S)	9	ON DAY(S)	9
MAXIMUM 24-HR AVERAGE:	91.4	%			ON DAY(S)	8

CALIBRATION TIME:	0	HRS	OPERATIONAL TIME:	720	HRS
			AMD OPERATION UPTIME:	100.0	%
STANDARD DEVIATION:	17.56		MONTHLY AVERAGE:	74.55	%

MOUNTAIN STANDARD TIME

Maxxam Analytics Inc


01 Hour Averages
100
75
50
25
0
09/01/07 00:00
09/06/07 00:00
09/11/07 00:00
09/16/07 00:00
09/21/07 00:00
09/26/07 00:00
LICA RH %FS

SEPTEMBER 2007
CALIBRATION REPORTS

LICA – COLD LAKE

SO_2

SO_2 Calibration Report

Station Information

Calibration Date	September 21, 2007	Previous Calibration	August 7, 2007
Company	**Lakeland Industry & Community Association**		
Plant / Location	**LICA 1 - Cold Lake South**		
Start Time (MST)	8:15	End Time (MST)	11:55
Reason:	Monthly Calibration		
Barometric Pressure	706 mmHg	Station Temperature	21 Deg C
Cal Gas	50.2 ppm	Cal Gas Expiry date	06/18/2009
DAS Output Voltage	0 - 10 Volts		

Equipment Information

Analyzer Make / Model:	TECO 43A	S/N :	43A-4468-272	Method:	Fluorescent
Converter Make / Model:	-	S/N :	-		
Calibrator Make / Model:	API 700	S/N :	690	Method:	Dilution
DAS Make / Model:	ESC 8832	S/N :	263		
Flow Meter:	API 700	S/N :	690		

Analyzer Settings

	Before Calibration				After Calibration			
Concentration Range	0 - 500 ppb							
Sample Flow / Box Temp	700	ccm	OK	Deg C	700	ccm	OK	Deg C
HVPS / Lamp Setting	OK		846		OK		845	
PMT / RxCell Temp	OK	Deg C	OK	50	OK	Deg C	OK	Deg C
Converter / IZS Temp	NA	Deg C	OK	40	NA	Deg C	OK	Deg C
Offset / Slope	98		879		98		879	

Calibration Data

Dilution Flow Rate	Source Gas Flow Rate	Calculated Concentration	Indicated Conc. (DAS)	Correction Factor
ZERO	ZERO	0	0	N/A
4960	39.8	400	401	0.9965
4974	24.9	250	252	0.9923
4985	14.9	150	152	0.9842
ZERO	ZERO	0	0	N/A
			Sum of Least Squares	0.9943
			New Correction Factor	0.9965

	Before Calibration	After Calibration
Auto Zero	0	0
Auto Span	345	344
Sample Lines Connected		**YES**
Percent Change from Previous Calibration		-0.2%

Notes:

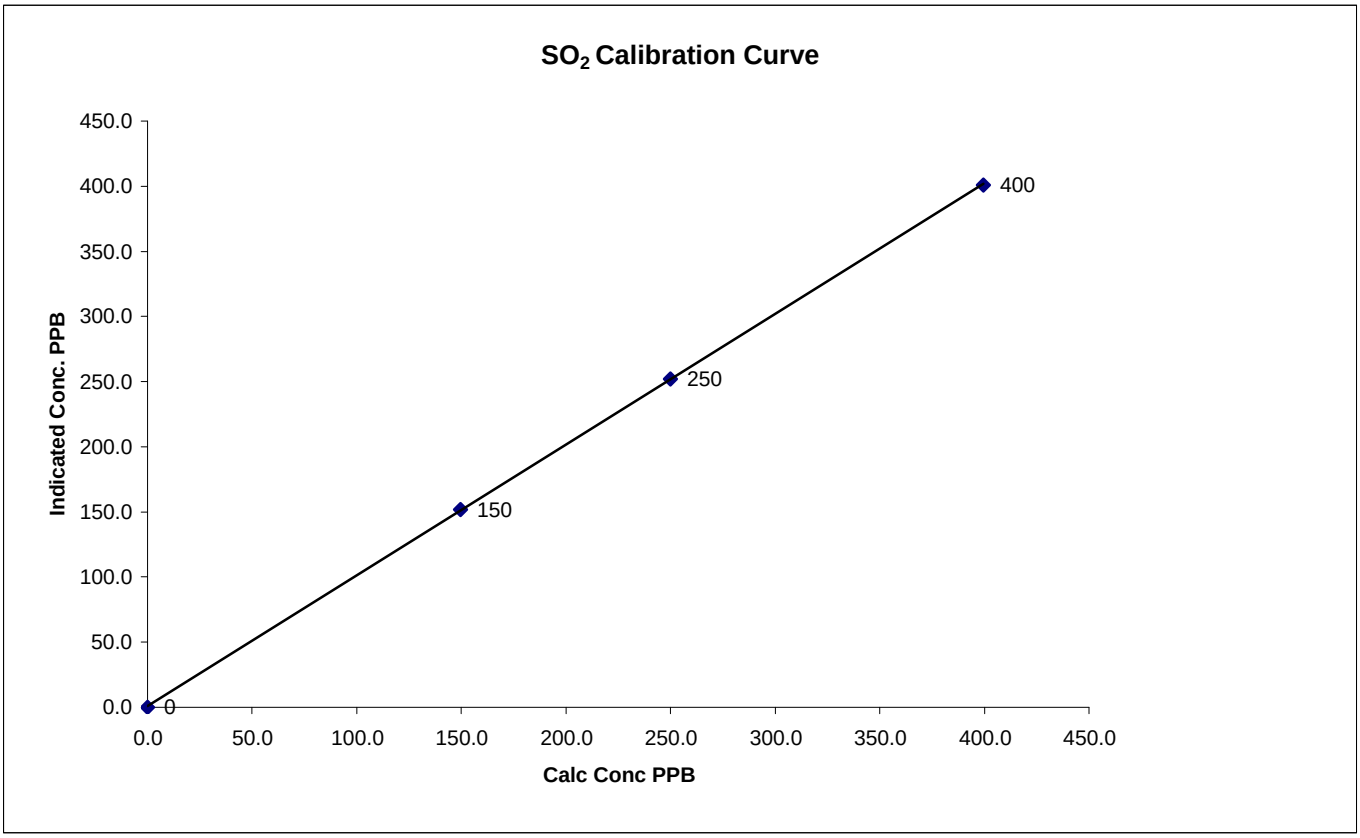
Calibration Performed by: Shea Beaton

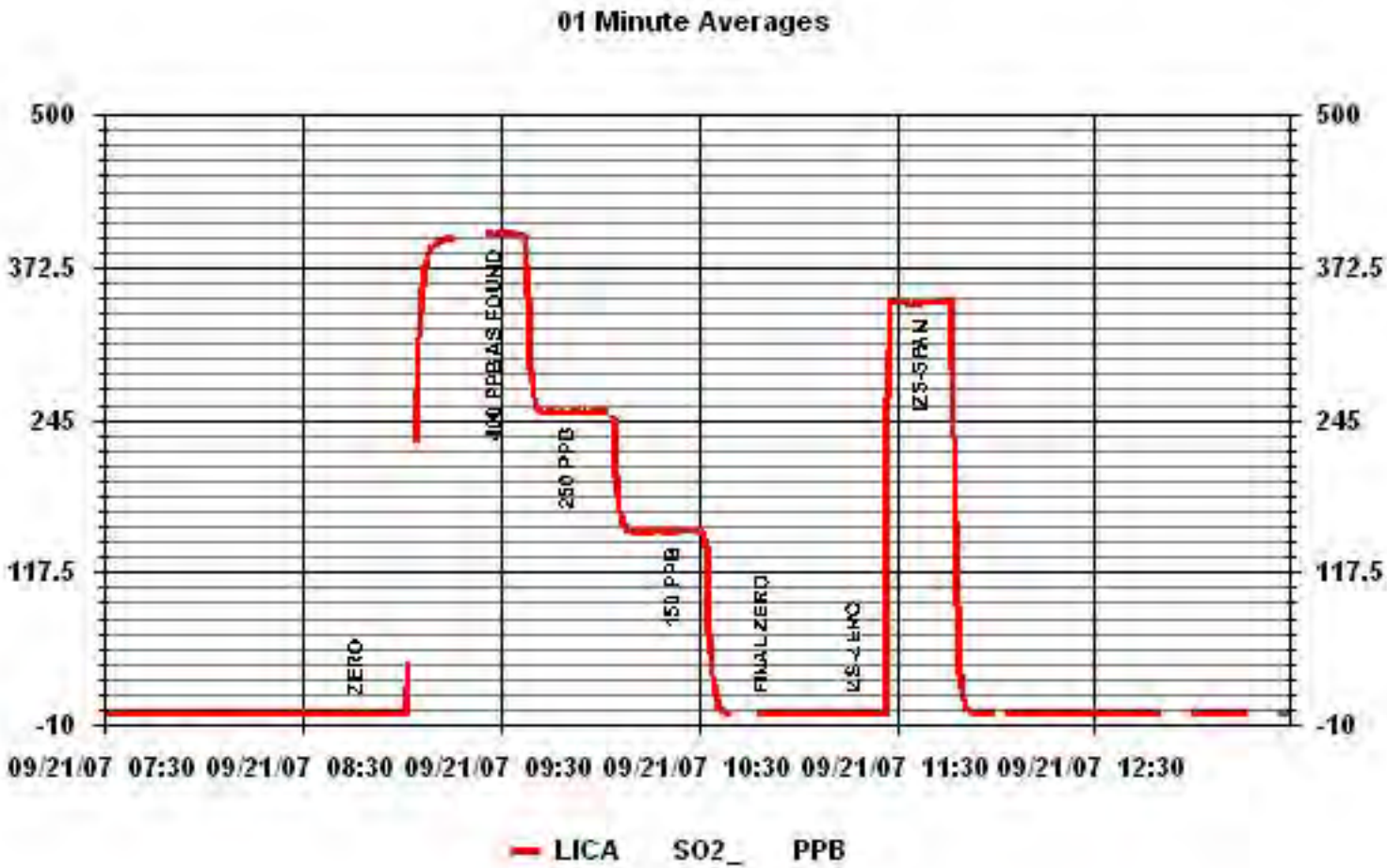
SO_2 Calibration Curve

Calibration Date	September 21, 2007		
Company	**Lakeland Industry & Community Association**		
Plant / Location	**LICA 1 - Cold Lake South**		
Start Time (MST)	8:15	End Time (MST)	11:55

Calculated Conc. ppb	Indicated Response ppb	Correction Factor
0	0	n/a
150	152	0.9842
250	252	0.9923
400	401	0.9965

Correlation Coefficient	(≥ 0.995)	0.999971
Slope	(0.85 to 1.15)	1.003009
Intercept	(± 3% F.S.)	0.834194




01 Minute Averages
500
372.5
245
117.5
-10
ZERO
400 PPBAS FOUND
250 PPB
150 PPB
FINAL ZERO
125-SPAN
09/21/07 07:30
09/21/07 08:30
09/21/07 09:30
09/21/07 10:30
09/21/07 11:30
09/21/07 12:30
LICA SO2_ PPB

TRS

TRS Calibration Report

Station Information

Calibration Date	September 24, 2007	Previous Calibration	August 7, 2007
Company	**Lakeland Industry & Community Association**		
Plant / Location	**LICA 1 - Cold Lake South**		
Start Time (MST)	7:45	End Time (MST)	15:00
Reason:	Monthly Calibration		
Barometric Pressure	714 mm Hg	Station Temperature	24 Deg C
Cal Gas	10.2 ppm	Cal Gas Expiry date	09/05/2007
DAS Output Voltage	0 - 10 Volts		

Equipment Information

Analyzer Make / Model:	TECO 43A	S/N :	43A-35786-254	Method:	Fluorescent
Converter Make / Model:	CD Nova CDN 101	S/N :	250		
Calibrator Make / Model:	Environics 2000	S/N :	1991	Method:	Dilution
DAS Make / Model:	ESC 8832	S/N :	263		
Flow Meter:	Environics 2000	S/N :	1991		

Analyzer Settings

	Before Calibration				After Calibration			
Concentration Range	0 -100 ppb							
Sample Flow / Box Temp	400	ccm	OK	Deg C	400	ccm	OK	Deg C
HVPS / Lamp Setting	OK		884		OK		885	
PMT / RxCell Temp	OK	Deg C	OK	Deg C	OK	Deg C	OK	Deg C
Converter / IZS Temp	851	Deg C	OK	Deg C	850	Deg C	OK	Deg C
Offset / Slope	820		836		850		836	

Calibration Data

Dilution Flow Rate	Source Gas Flow Rate	Calculated Concentration	Indicated Conc. (DAS)	Correction Factor
ZERO	ZERO	0	1	N/A
ZERO	ZERO	0	0	N/A
4960	39.2	80	80	0.9998
4980	19.6	40	40	0.9997
4990	9.8	20	20	0.9996
ZERO	ZERO	0	0	N/A
			Sum of Least Squares	0.9997
			New Correction Factor	0.9998

	Before Calibration	After Calibration
Auto Zero	0	0
Auto Span	85	87
Sample Lines Connected		YES
Percent Change from Previous Calibration		0.0%

Notes: The "As Found" span was repeated several times due to instalbility and incorrect conc. These problems were a result of bad calibration gas. Used original gas from previous month's cal.

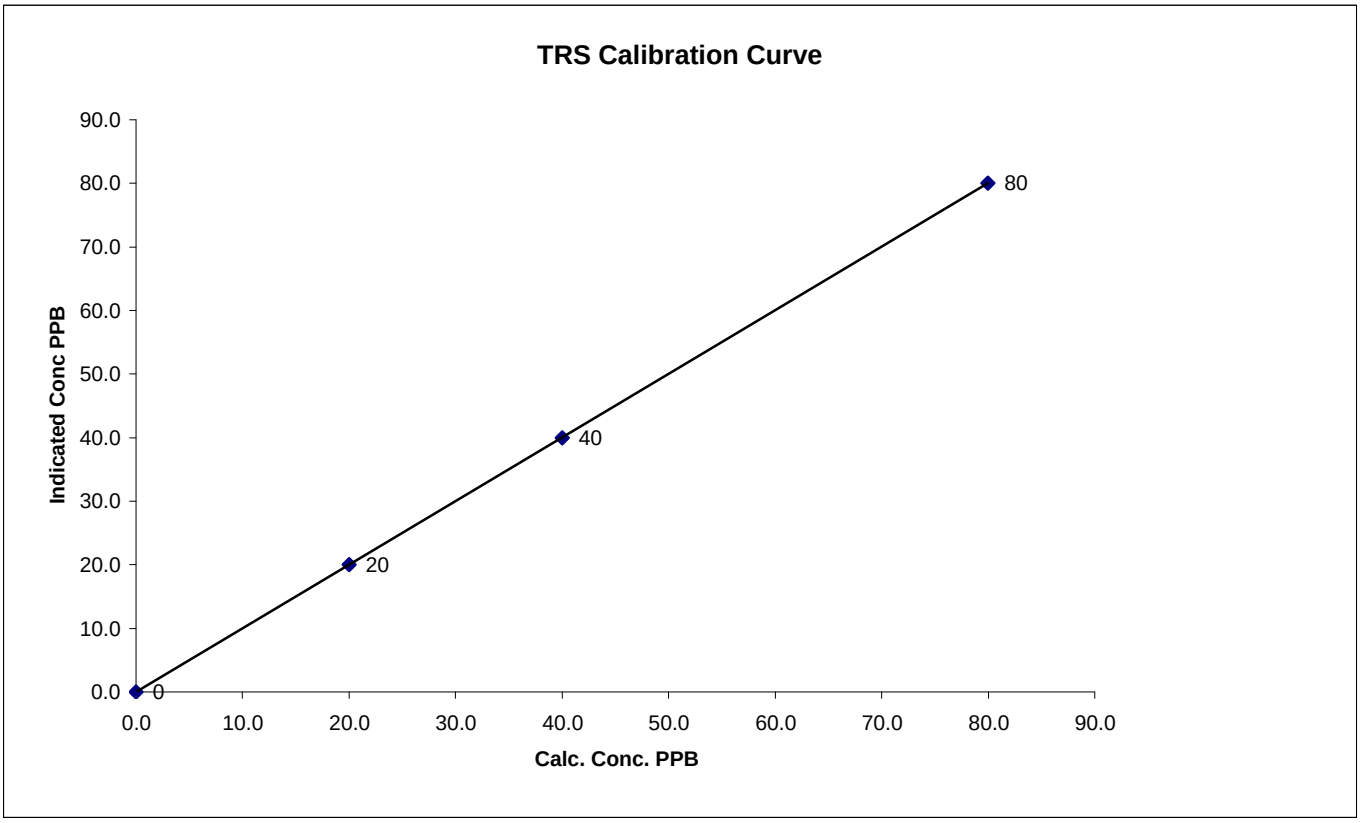
Calibration Performed by: Shea Beaton

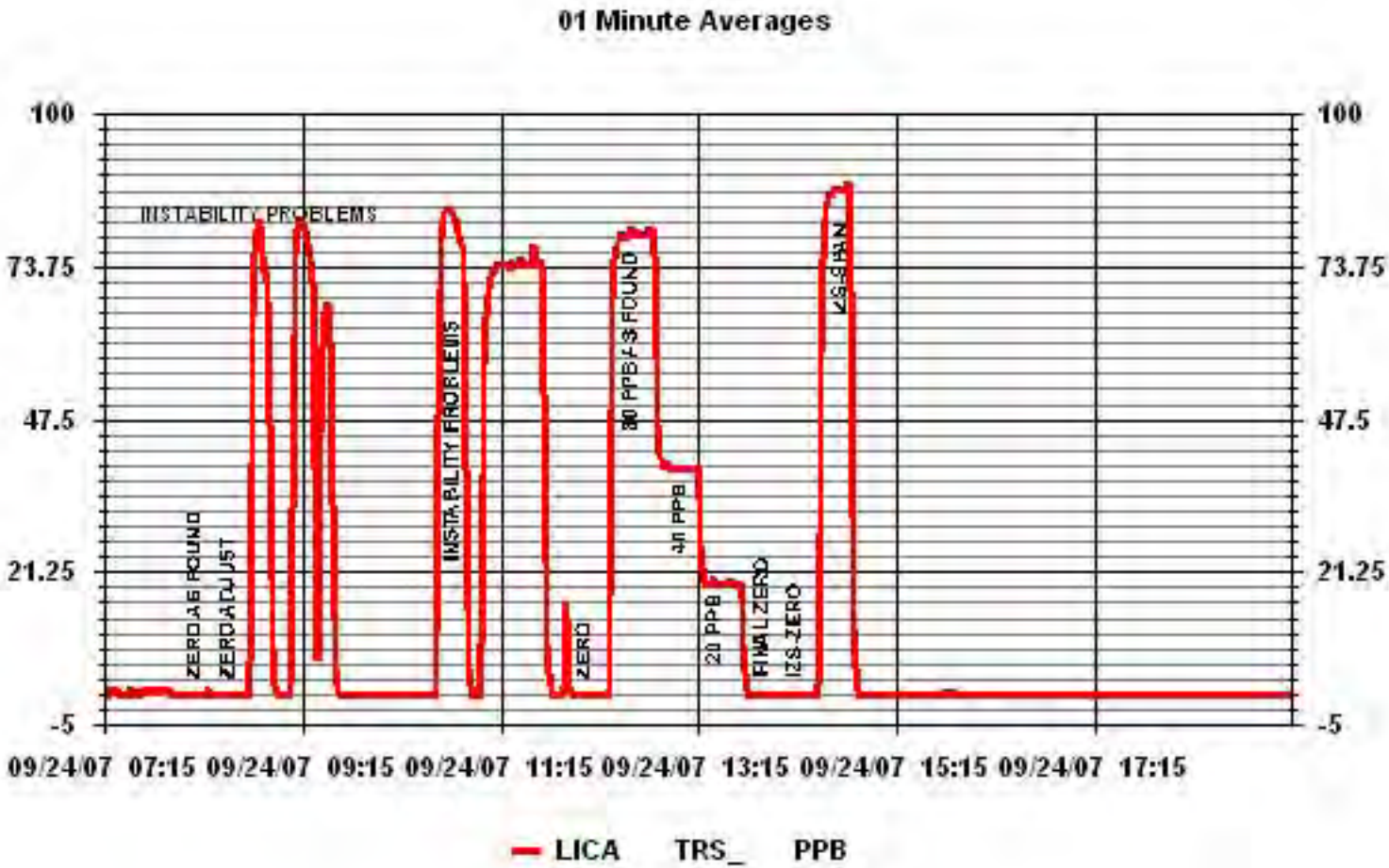
TRS Calibration Curve

Calibration Date	September 24, 2007		
Company	**Lakeland Industry & Community Association**		
Plant / Location	**LICA 1 - Cold Lake South**		
Start Time (MST)	7:45	End Time (MST)	15:00

Calculated Conc. ppb	Indicated Response ppb	Correction Factor
0	0	n/a
20	20	0.9996
40	40	0.9997
80	80	0.9998

Correlation Coefficient	**(≥ 0.995)**	1.000000
Slope	**(0.85 to 1.15)**	1.000234
Intercept	**(± 3% F.S.)**	0.001600




01 Minute Averages
100
73.75
47.5
21.25
-5
INSTABILITY PROBLEMS
ZERO AS FOUND
ZERO ADJUST
INSTABILITY PROBLEMS
ZERO
80 PPB AS FOUND
40 PPB
20 PPB
FINAL ZERO
IZS-ZERO
AS FOUND
09/24/07 07:15
09/24/07 09:15
09/24/07 11:15
09/24/07 13:15
09/24/07 15:15
09/24/07 17:15
LICA TRS_ PPB

THC

THC Calibration Report

Station Information

Calibration Date:	September 24, 2007	Previous Calibration	August 7, 2007
Company:	**Lakeland Industry and Community Association**		
Plant / Location:	**LICA1/Cold Lake**		
Start Time (MST)	7:45	End Time (MST)	11:40
Reason:		Monthly Calibration	
Barometric Pressure:	714 mmHg	Station Temperature:	24 Deg C
Calibrator:	Environics 2000	S/N:	1991
Cal Gas Concentration:	1010 ppm	Cal Gas Expiry Date:	Jan-10
DAS make & Model:	ESC 8832	S/N :	263
Output Voltage Range:	0 - 10 VDC		

Analyzer Information

Make / Model	TECO 51C-LT	S/N :	51CLT-42740-8718	Method	Flame Ionization

Analyzer Settings

	Before Calibration		After Calibration	
Concentration Range	0 - 50	ppm	0 - 50	ppm
Sample Pressure	6.5	psi	6.5	psi
Hydrogen Pressure	9	psi	9	psi
Air Pressure	18	psi	18	psi

Calibration Data

Dilution Flow	Source Gas Flow	Calculated Concentration	Indicated Concentration	Correction Factor
ZERO	ZERO	0.0	0.0	N/A
1920	79.2	40.0	41.5	0.9641
1920	79.2	40.0	40.0	1.0003
1960	39.6	20.0	19.4	1.0310
1980	19.8	10.0	9.4	1.0638
ZERO	ZERO	0.0	0.0	N/A
			Correction Factor:	1.0003

Percent Change

Previous Calibration Correction Factor:	0.9953
Current Correction Factor Before Span Adjust:	0.9641
Percent Change:	3.2%

IZS Calibration Data

	Before Calibration	After Calibration
Auto Zero	0.0	0.0
Auto Span	28.1	27.1
Sample Lines Connected		**YES**

Notes:	Cylinder Pressures	
	Span	800 psi
	Hydrogen	950 psi
	Zero Air	Maxxam-owned API 701 zero air supply with catalytic oxidizer

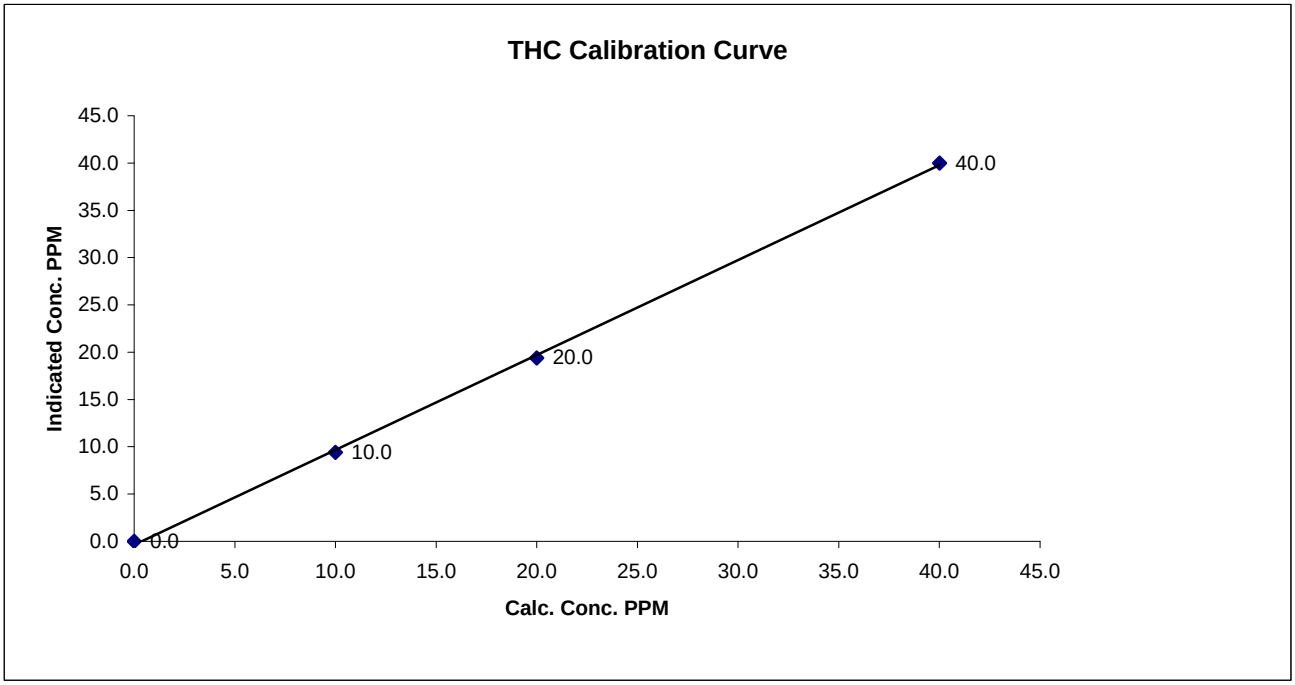
Calibration Performed by: Shea Beaton

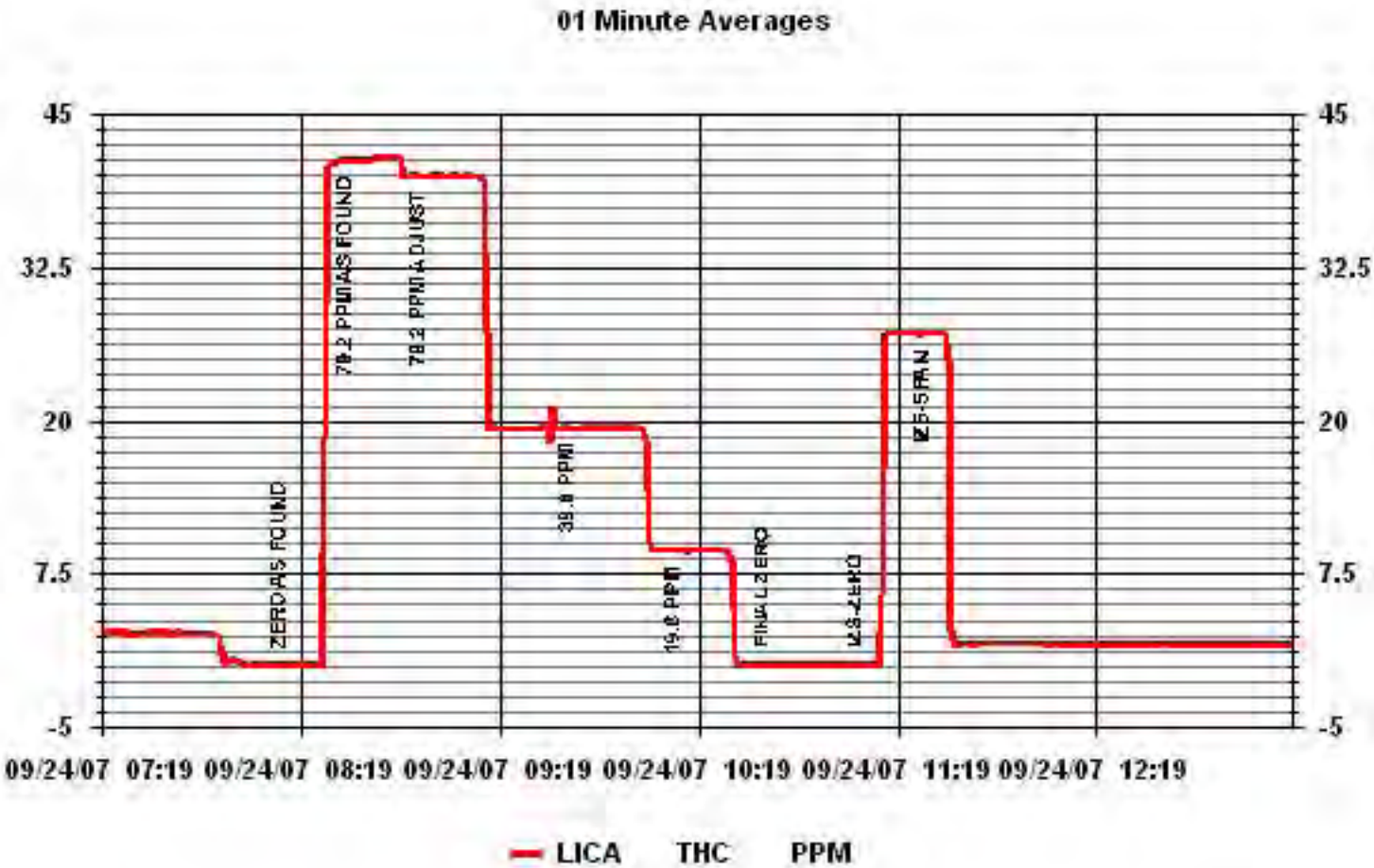
THC Calibration Curve

Calibration Date	September 24, 2007			
Company	**Lakeland Industry and Community Association**			
Plant / Location	**LICA1/Cold Lake**			
Start Time (MST)	7:45	End Time (MST)	11:40	

Calculated Conc. ppm	Indicated Response ppm	Correction Factor
0.0	0.0	
10.0	9.4	1.0638
20.0	19.4	1.0310
40.0	40.0	1.0003

Correlation Coefficient	**(≥ 0.995)**	0.999608
Slope	**(0.85 to 1.15)**	1.003116
Intercept	**(± 3% F.S.)**	-0.358034




01 Minute Averages
45
32.5
20
7.5
-5
ZERO AS FOUND
78.2 PPM AS FOUND
78.2 PPM ADJUST
39.8 PPM
19.8 PPM
FINAL ZERO
25.5 PPM
09/24/07 07:19
09/24/07 08:19
09/24/07 09:19
09/24/07 10:19
09/24/07 11:19
09/24/07 12:19
LICA THC PPM

PARTICULATE MATTER 2.5

TEOM® Calibration

Station		Transfer Standard	
Date:	September 21, 2007	Make/Model:	Bios DC-2
Station Name:	LICA	Serial Number:	1193
Location:	Cold Lake - South	Cell s/n:	2272
Operator:	Maxxam Analytics	Thermometer s/n:	2178

Sampler		Set-up and current Sampler readings	
Make/Model	R & P Series 1400 a TEOM	F-Main Set Pt (l/min)	3.00
Unit #	AMU 1494	F-Aux Set Pt (l/min)	13.67
Control unit s/n	140AB213859701	Filter Load (%)	71
Transducer s/n	140AB213859701	K_o Factor	11095
Parameter	PM 2.5	Temp (^oC)	7.9
		Press (ATM)	0.929

Conversion from mmHg or "Hg to ATM (Atmospheres)

ATM = (mmHg) X (1.316 X 10 -3) or ATM = ("Hg) X (3.34207 X 10 -2)

Note: Tolerances are noted as BOLD in Brackets

Calibration

Zero flow

	Pump Off		Pump On (Time to reach set points)	
F-Main (l/min)	0.06		**(45-60 Sec)**	41
F-Aux (l/min)	0.17		**(45-60 Sec)**	54

Temperature/Pressure

Measured Temp **(± 1 ^oC)**	8.4	**Δ ^oC**	0.5
Measured Press **(± 1.5% ATM)**	0.929	**Δ % ATM**	0.0%

Flow Audit

			Δ % from Set-pt
Indicated Main/Aux Flow (l/min)	3.00 / 13.65	**(± 2%)**	0.0% / 0.1%
Total Flow = Main + Aux (l/min)	16.65	**(± 2%)**	0.1%
Measured Total Flow (l/min)	17.34	**(± 1.0 l/min. (5.65%))**	-4.0%
Measured Main Flow (l/min)	3.09	**(± 0.2 l/min. (6.25%))**	-2.9%

Leak Check

		Actual leakage = Pump On - Pump Off
Main **(< 0.15 l/min)**	0.05	0.01
Aux **(< 0.15 l/min)**	0.03	0.14

K_o Factor

Measured	NA
K_o Difference **(± 2.5%)**	NA

Start Time: 11:00 **Finish Time:** 11:45

Sample Inlet Cleaned: YES **Sample Inlet Connected:** YES

Comments:

Calibrator/s: Shea Beaton

TEOM® Calibration

Station		Transfer Standard	
Date:	September 21, 2007	Make/Model:	Bios DC-2
Station Name:	LICA	Serial Number:	1193
Location:	Cold Lake - South	Cell s/n:	2272
Operator:	Maxxam Analytics	Thermometer s/n:	2178

Sampler		Set-up and current Sampler readings	
Make/Model	R & P Series 1400 a TEOM	F-Main Set Pt (l/min)	3.00
Unit #	AMU 1494	F-Aux Set Pt (l/min)	13.67
Control unit s/n	140AB213859701	Filter Load (%)	15
Transducer s/n	140AB213859701	K_o Factor	11095
Parameter	PM 2.5	Temp (^oC)	8.6
		Press (ATM)	0.929

Conversion from mmHg or "Hg to ATM (Atmospheres)

ATM = (mmHg) X (1.316 X 10 -3) or ATM = ("Hg) X (3.34207 X 10 -2)

Note: Tolerances are noted as BOLD in Brackets

Calibration

Zero flow

	Pump Off		Pump On (Time to reach set points)	
F-Main (l/min)	0.06		**(45-60 Sec)**	34
F-Aux (l/min)	0.17		**(45-60 Sec)**	47

Temperature/Pressure

Measured Temp **(± 1 ^oC)**	9.1	**Δ ^oC**	0.5
Measured Press **(± 1.5% ATM)**	0.929	**Δ % ATM**	0.0%

Flow Audit

			Δ % from Set-pt
Indicated Main/Aux Flow (l/min)	3.00 / 13.65	**(± 2%)**	0.0% / 0.1%
Total Flow = Main + Aux (l/min)	16.65	**(± 2%)**	0.1%
Measured Total Flow (l/min)	16.76	**(± 1.0 l/min. (5.65%))**	-0.7%
Measured Main Flow (l/min)	2.99	**(± 0.2 l/min. (6.25%))**	0.3%

Leak Check

		Actual leakage = Pump On - Pump Off
Main **(< 0.15 l/min)**	0.08	0.02
Aux **(< 0.15 l/min)**	0.06	0.11

K_o Factor

Measured	NA
K_o Difference **(± 2.5%)**	NA

Start Time: 11:00 **Finish Time:** 13:30

Sample Inlet Cleaned: YES **Sample Inlet Connected:** YES

Comments: Performed Audit after software flow cal, have ordered parts lilkely responsible for the slight leak. Fadj Main = 0.945, Fadj Aux = 0.965

Calibrator/s: Shea Beaton

NO_2

NOx - NO- NO_2 Calibration Report

Station Information

Calibration Date	September 21, 2007	Previous Calibration	August 22, 2007
Company	**Lakeland Ind & Comm. Assoc.**	Plant/Location	**LICA 1 - Cold Lake South**
Start Time (MST)	8:15	End Time (MST)	13:50
Reason:	Monthly Calibration		
Barometric Pressure	706 mmHg	Station Temperature	21.0 Deg C
Cal Gas Concentration	NOx 49.8 ppm NO 49.7 ppm	Cal Gas Expiry date	06/18/2009
DAS Output Voltage	0 - 5 Volts		

Equipment Information

Analyzer Make / Model:	TECO 42C	S/N :	42-7408-716	Method:	Chemiluminescent
Calibrator Make / Model:	Environics 2000	S/N:	1991		
DAS Make / Model:	ESC 8832	S/N :	263		
Flow Meter:	Environics 2000	S/N :	1991		

Analyzer Settings

	Before Calibration				After Calibration			
Concentration Range			0 - 500	ppb				
Sample Flow/Conv. Temp	726	ccm	317	Deg C	721	ccm	317	Deg C
Ozone Flow / Vacuum	OK	ccm	177.8	"Hg-A	OK	ccm	177.8	"Hg-A
HVPS	-820		Volts		-820		Volts	
Rx/ Temp / PMT Temp	49.9	Deg C	-2.5	Deg C	49.9	Deg C	-2.5	Deg C
Box Temp / IZS Temp	27.2	Deg C	OK	Deg C	28.6	Deg C	OK	Deg C
Offset	3.3	NOx	3.4	NO	2.7	NOx	2.7	NO
Slope	0.998	NOx	0.758	NO	1.003	NOx	0.730	NO

Gas Phase Titration Calibration Data

Dilution Air Flow Rate	Source Flow Rate	O3 Set Point	Calculated Concentration		Indicated Concentration			Correction Factor	
			NOx	NO	NOx	NO	NO2	NOx	NO
ZERO	N/A	N/A	0	0	0	0	0	N/A	N/A
ZERO	N/A	N/A	0	0	0	0	0	N/A	N/A
4959	40.2	N/A	400	400	414	415	-1	0.9673	0.9630
4959	40.2	N/A	400	400	401	400	1	0.9986	0.9991
								Converter Efficiency	
4959	40.2	400	400	N/A	397	58	338	99%	
4959	40.2	250	400	N/A	398	163	235	99%	
4959	40.2	150	400	N/A	400	252	148	99%	
4959	40.2	N/A	400	400	401	399	1	N/A	
								Correction Factor	
4974	25.2	N/A	251	251	250	249	0	1.0041	1.0061
4984	15.1	N/A	150	150	149	148	0	1.0096	1.0143
ZERO	N/A	N/A	0	0	0	0	0	N/A	N/A
Linearity OK?			**Yes**	No	Sum of Least Squares			1.0010	1.0023
Flows Checked on-site?			Yes	**No**	New Correction Factor			0.9986	0.9991
					Average Converter Efficiency			99%	

	Before Calibration				After Calibration			
Auto Zero	0	NOx	0	NO2	0	NOx	0	NO2
Auto Span	299	NOx	297	NO2	290	NOx	287	NO2
Sample Lines Connected					**YES**			
Percent Change from Previous Calibration					*NOx*	3.2%	*NO*	3.8%

Notes: Power supply voltages +15 @ 15.1v, +5 @ 5.0v, -15 @ -15.1v, battery at 0.2v

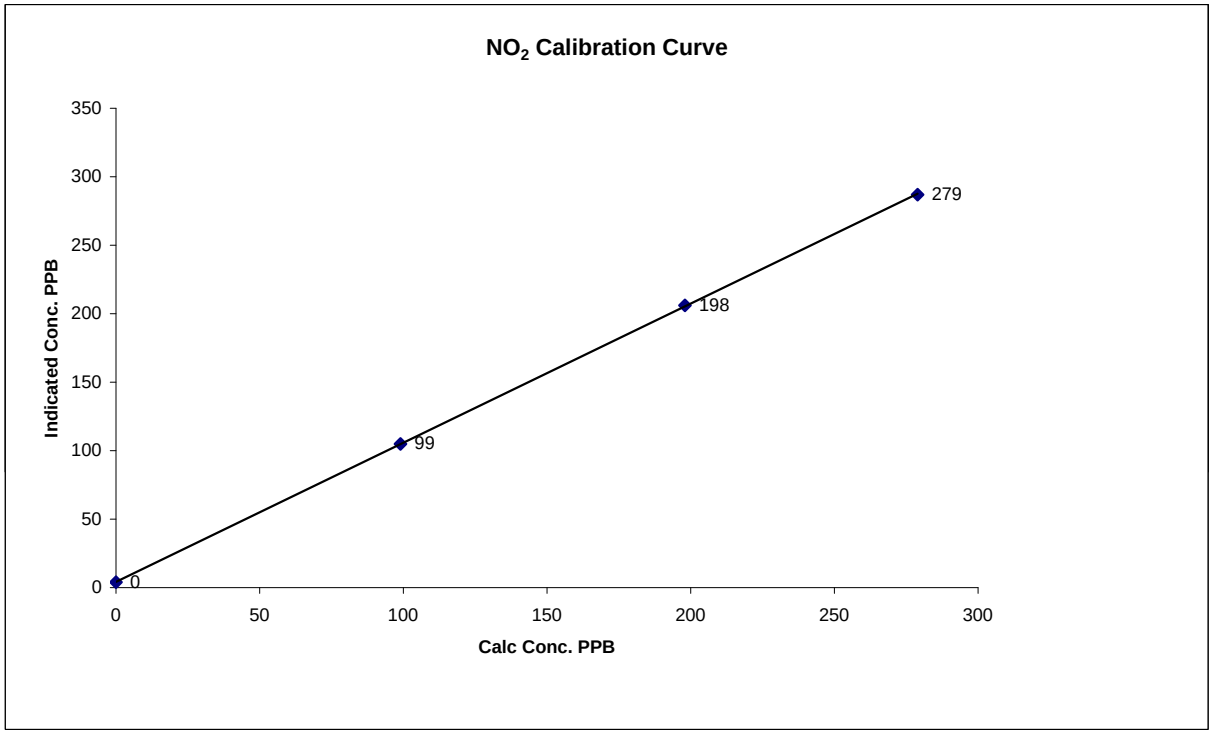
Calibration Performed by: Shea Beaton

NO_2 Calibration Curve

Calibration Date	September 21, 2007		
Company	**Lakeland Ind & Comm. Assoc.**		
Plant / Location	**LICA 1 - Cold Lake South**		
Start Time (MST)	8:15	End Time (MST)	13:50

Calculated Conc. ppb	Indicated Response ppb	Correction Factor
0	1	N/A
148	148	1.0000
237	235	1.0085
342	338	1.0118

Correlation Coefficient	(≥ 0.995)	0.999985
Slope	(0.85 to 1.15)	0.985164
Intercept	(± 3% F.S.)	1.446429

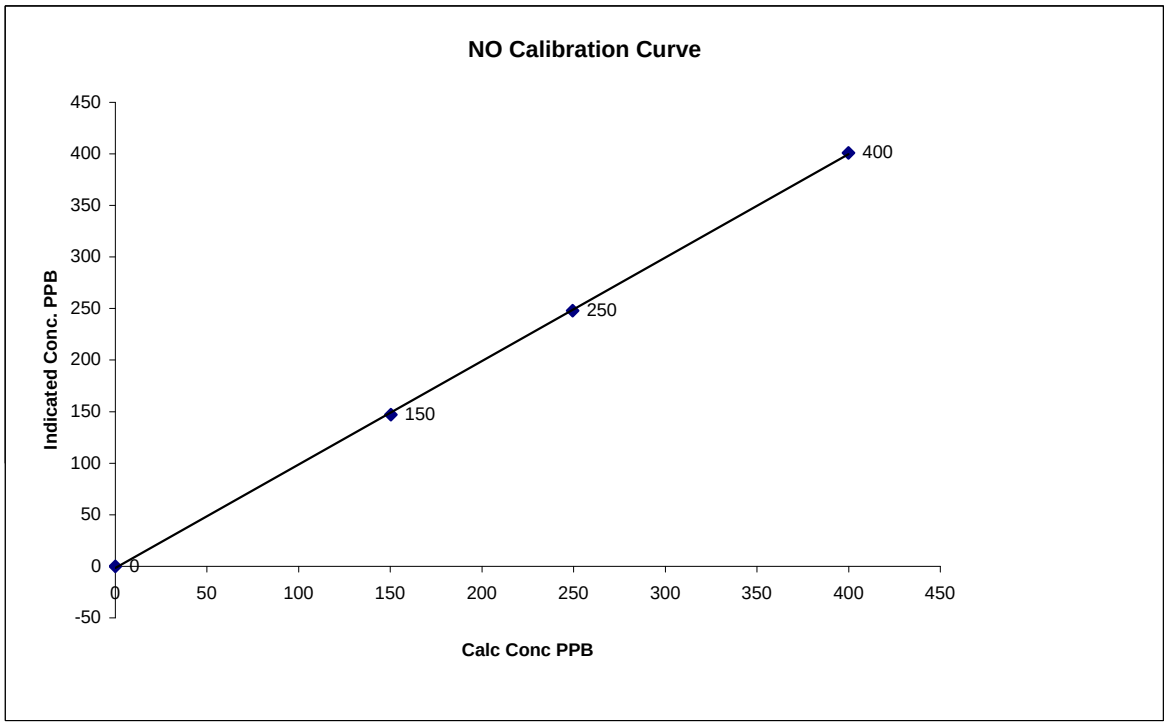


NO Calibration Curve

Calibration Date	September 21, 2007		
Company	**Lakeland Ind & Comm. Assoc.**		
Plant / Location	**LICA 1 - Cold Lake South**		
Start Time (MST)	8:15	End Time (MST)	13:50

Calculated Conc. ppb	Indicated Response ppb	Correction Factor
0	0	N/A
150	148	1.0143
251	249	1.0061
400	400	0.9991

Correlation Coefficient	(≥ 0.995)	0.999952
Slope	(0.85 to 1.15)	1.001158
Intercept	(± 3% F.S.)	-1.056962

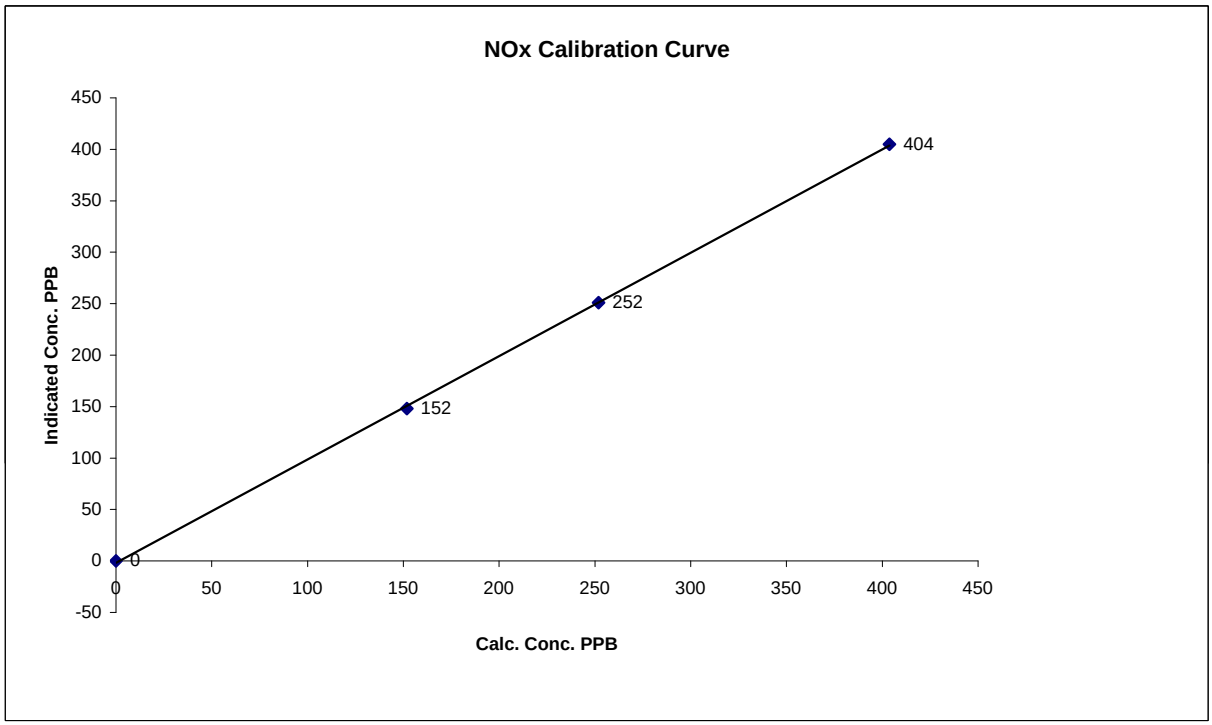


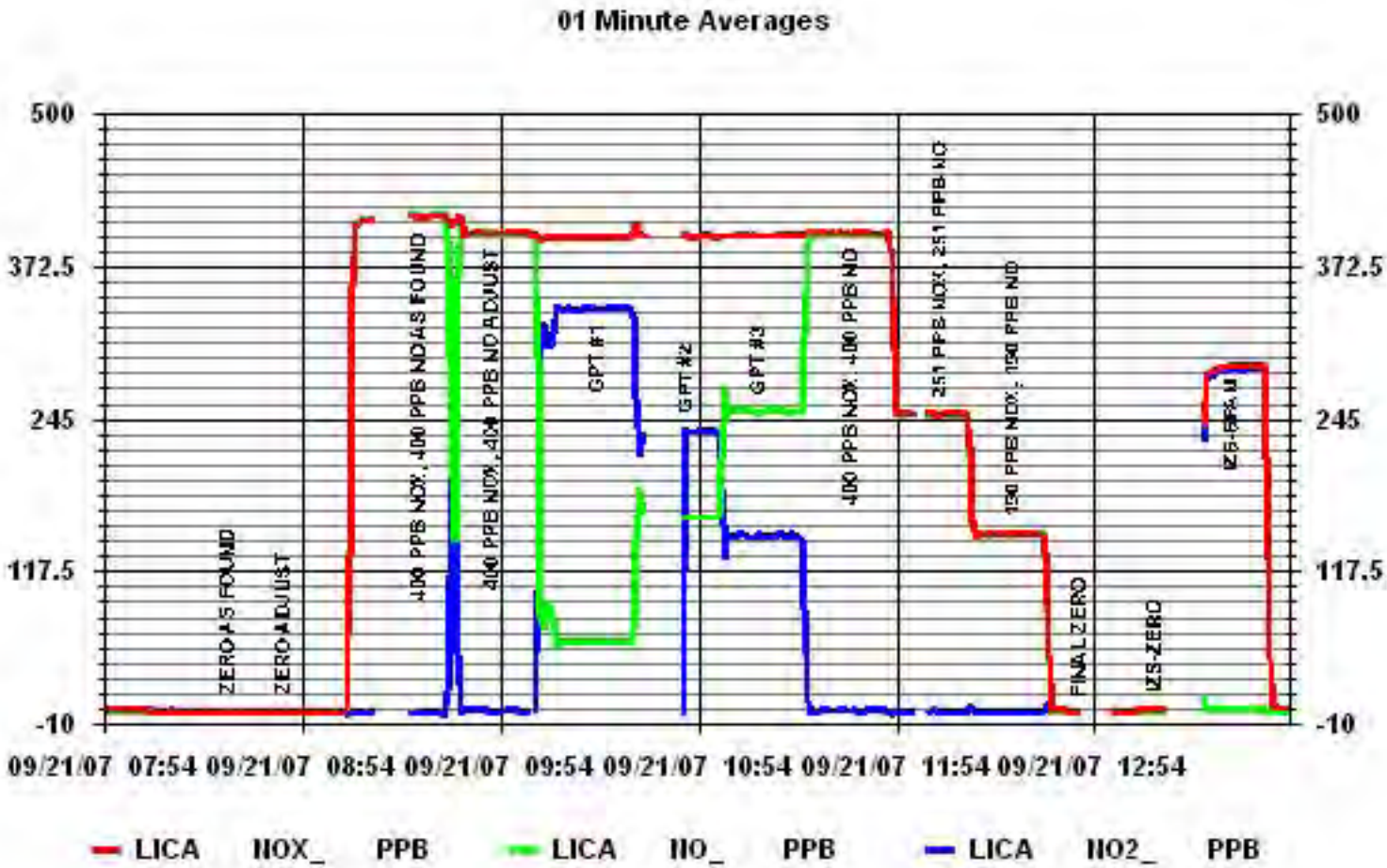
NOx Calibration Curve

Calibration Date	September 21, 2007		
Company	**Lakeland Ind & Comm. Assoc.**		
Plant / Location	**LICA 1 - Cold Lake South**		
Start Time (MST)	8:15	End Time (MST)	13:50

Calculated Conc. ppb	Indicated Response ppb	Correction Factor
0	0	N/A
150	149	1.0096
251	250	1.0041
400	401	0.9986

Correlation Coefficient	(≥ 0.995)	0.999973
Slope	(0.85 to 1.15)	1.001500
Intercept	(± 3% F.S.)	-0.778449




01 Minute Averages
500
372.5
245
117.5
-10
ZERO AS FOUND
ZERO ADJUST
400 PPB NOX, 400 PPB NO AS FOUND
400 PPB NOX, 400 PPB NO ADJUST
GPT #1
GPT #2
GPT #3
400 PPB NOX, 400 PPB NO
251 PPB NOX, 251 PPB NO
150 PPB NOX, 150 PPB NO
FINAL ZERO
ZS-ZERO
09/21/07 07:54
09/21/07 08:54
09/21/07 09:54
09/21/07 10:54
09/21/07 11:54
09/21/07 12:54
LICA NOX_ PPB
LICA NO_ PPB
LICA NO2_ PPB

OZONE

O_3 Calibration Report

Station Information

Calibration Date	September 24, 2007	Previous Calibration	August 15, 2007
Company	**Lakeland Industry & Community Association**		
Plant / Location	**LICA 1 - Cold Lake South**		
Start Time (MST)	14:00	End Time (MST)	17:00
Reason:	Monthly Calibration		
Barometric Pressure	714 mm Hg	Station Temperature	24 Deg C
DAS Output Voltage	0 - 10 Volts		

Equipment Information

Analyzer Make / Model:	TEI 49i	S/N :	700419951	Method:	Fluorescent
Calibrator Make / Model:	Environics 2000	S/N :	1991	Method:	Dilution
DAS Make / Model:	ESC 8832	S/N :	263		

Analyzer Settings

	Before Calibration		After Calibration	
Concentration Range	0 - 500 ppb			
Box Temp/ Pressure	34.2	705	34.1	705
O_3 Set Level	29%		29%	
Bench Lamp/O3 Lamp	53.6	67.7	53.6	67.7
Sample Flow A/B	0.701 LPM	0.709 LPM	0.699 LPM	0.707 LPM
Offset / Slope	0.4	1.061	0.4	1.061

Calibration Data

Dilution Flow Rate	Ozone Set Point	Calculated Concentration	Indicated Conc. (DAS)	Correction Factor
ZERO	ZERO	0	0	N/A
5000	400	399	401	0.9950
5000	250	247	247	1.0000
5000	100	97	99	0.9798
ZERO	ZERO	0	0	N/A
			Sum of Least Squares	N/A
			New Correction Factor	0.9950

	Before Calibration	After Calibration
Auto Zero	0	0
Auto Span	294	296
Sample Lines Connected		YES
Percent Change from Previous Calibration		0.3%

Notes:

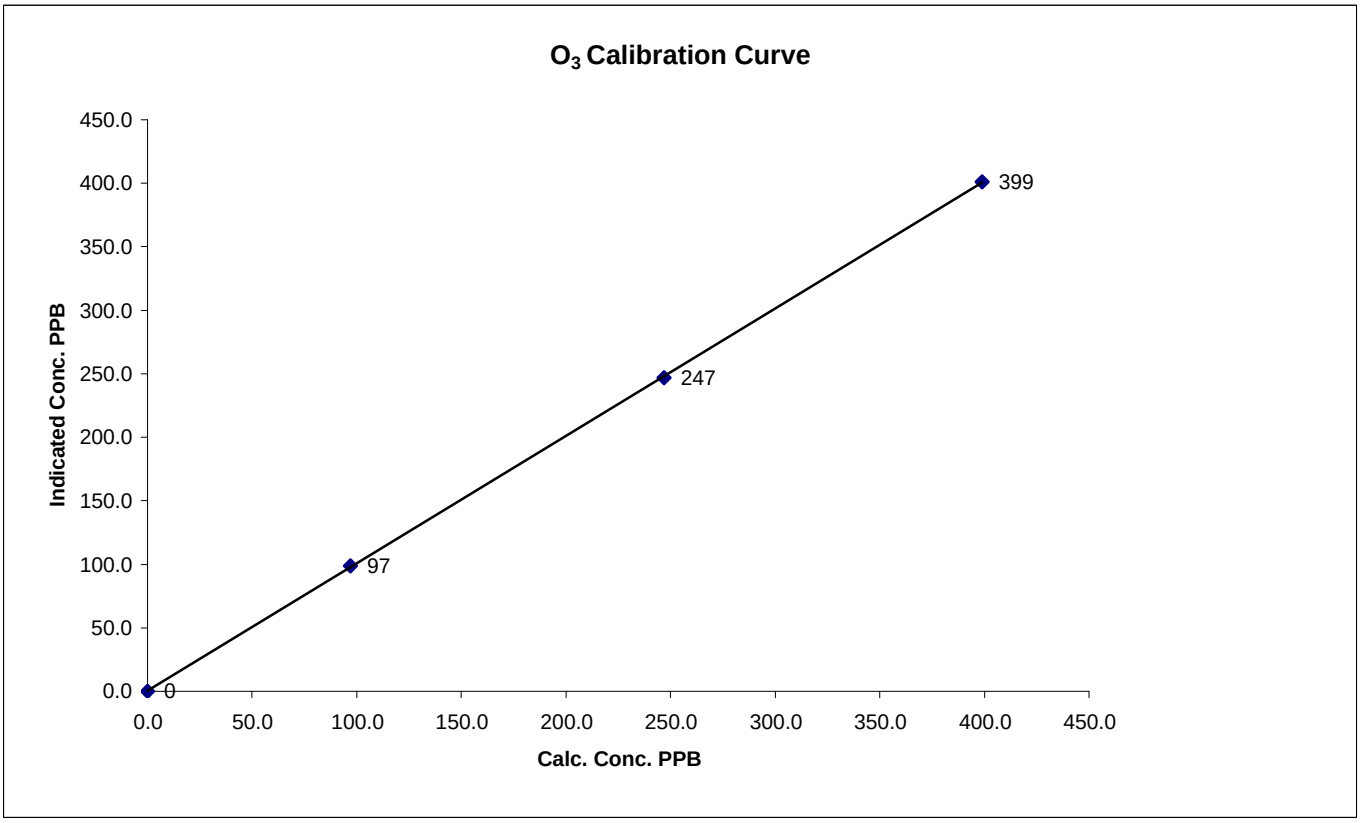
Calibration Performed by: Shea Beaton

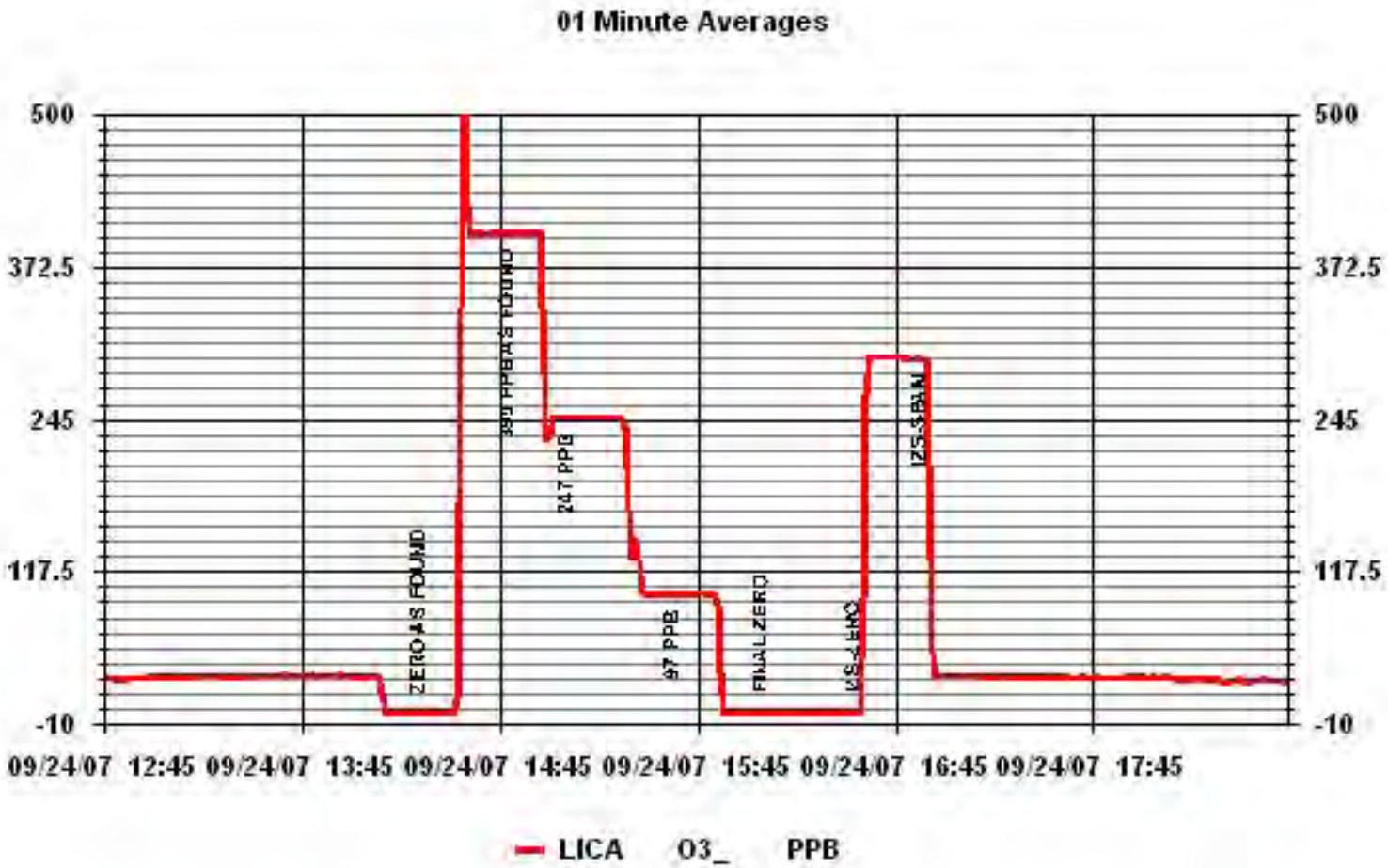
O_3 Calibration Curve

Calibration Date	September 24, 2007		
Company	**Lakeland Industry & Community Association**		
Plant / Location	**LICA 1 - Cold Lake South**		
Start Time (MST)	14:00	End Time (MST)	17:00

Calculated Conc. ppb	Indicated Response ppb	Correction Factor
0	0	n/a
97	99	0.9798
247	247	1.0000
399	401	0.9950

Correlation Coefficient	(≥ 0.995)	0.999964
Slope	(0.85 to 1.15)	1.002718
Intercept	(± 3% F.S.)	0.495105



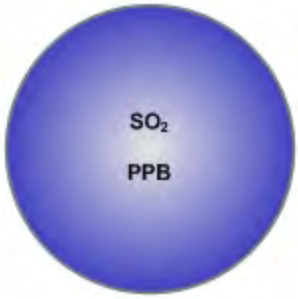

01 Minute Averages
500
372.5
245
117.5
-10
ZERO AS FOUND
395 PPB AS FOUND
247 PPB
97 PPB
FINAL ZERO
125.3 PPB
09/24/07 12:45
09/24/07 13:45
09/24/07 14:45
09/24/07 15:45
09/24/07 16:45
09/24/07 17:45
LICA O3_ PPB

SEPTEMBER 2007
LICA
PASSIVE BUBBLE MAPS

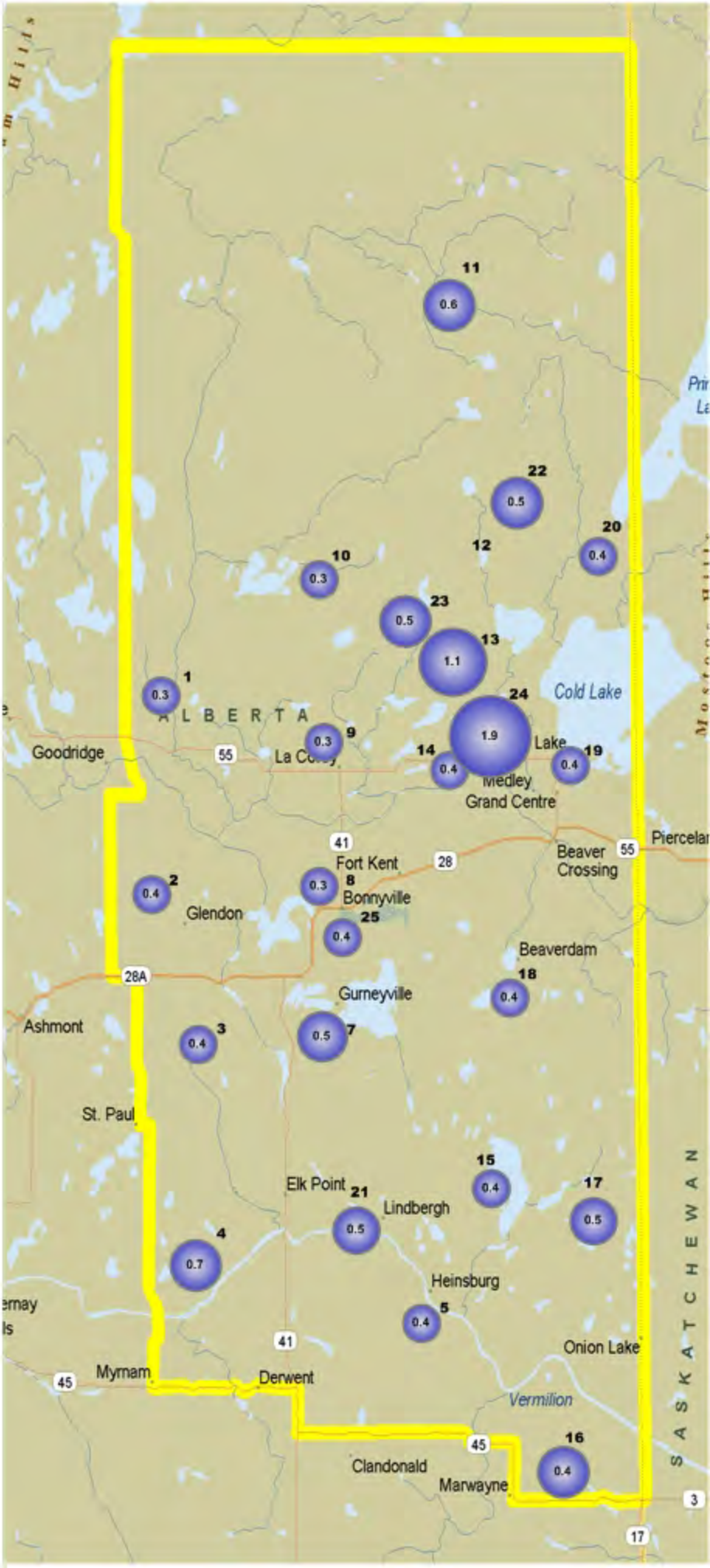
LICA
Lakeland Industry & Community Association

PASSIVE BUBBLE MAP

September 2007



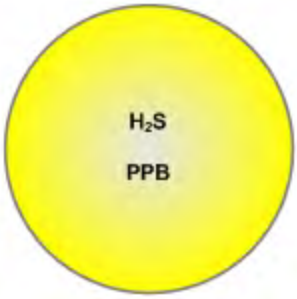
Maxxam Analytics Inc



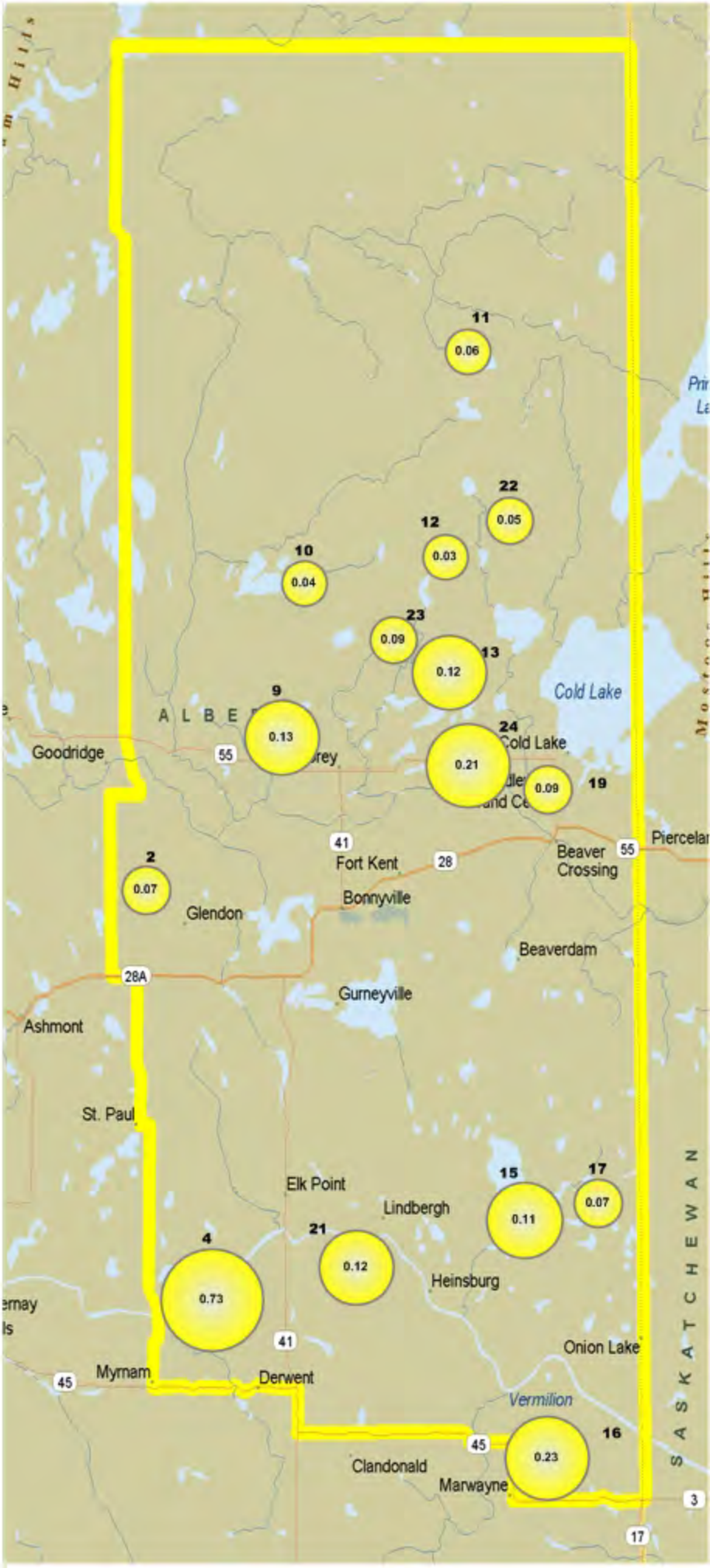
LICA
Lakeland Industry & Community Association

PASSIVE BUBBLE MAP

September 2007



Maxxam Analytics Inc

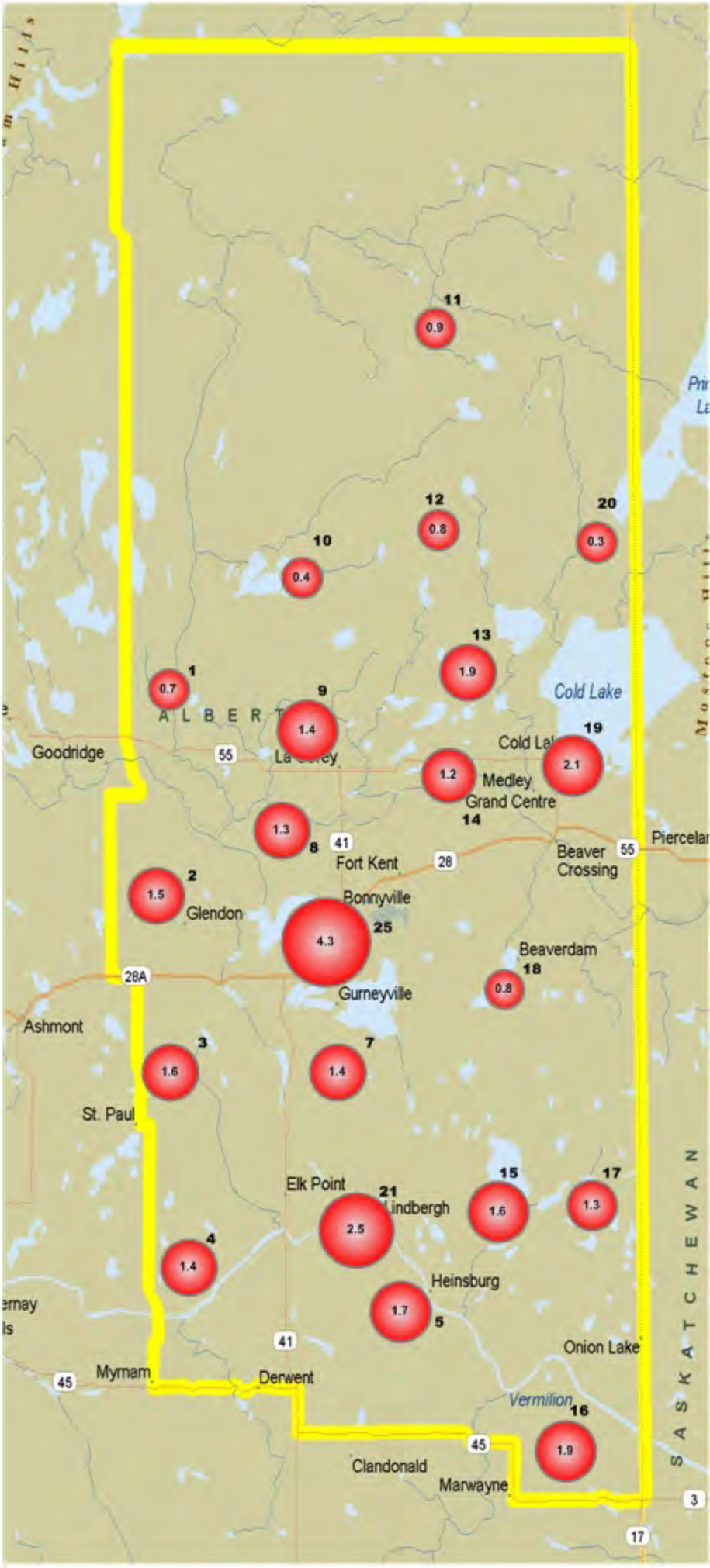


LICA
Lakeland Industry & Community Association

PASSIVE BUBBLE MAP

September 2007

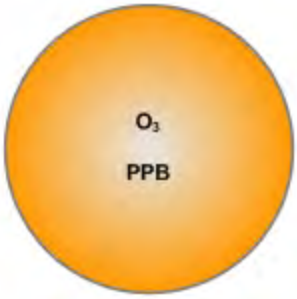
Maxxam Analytics Inc



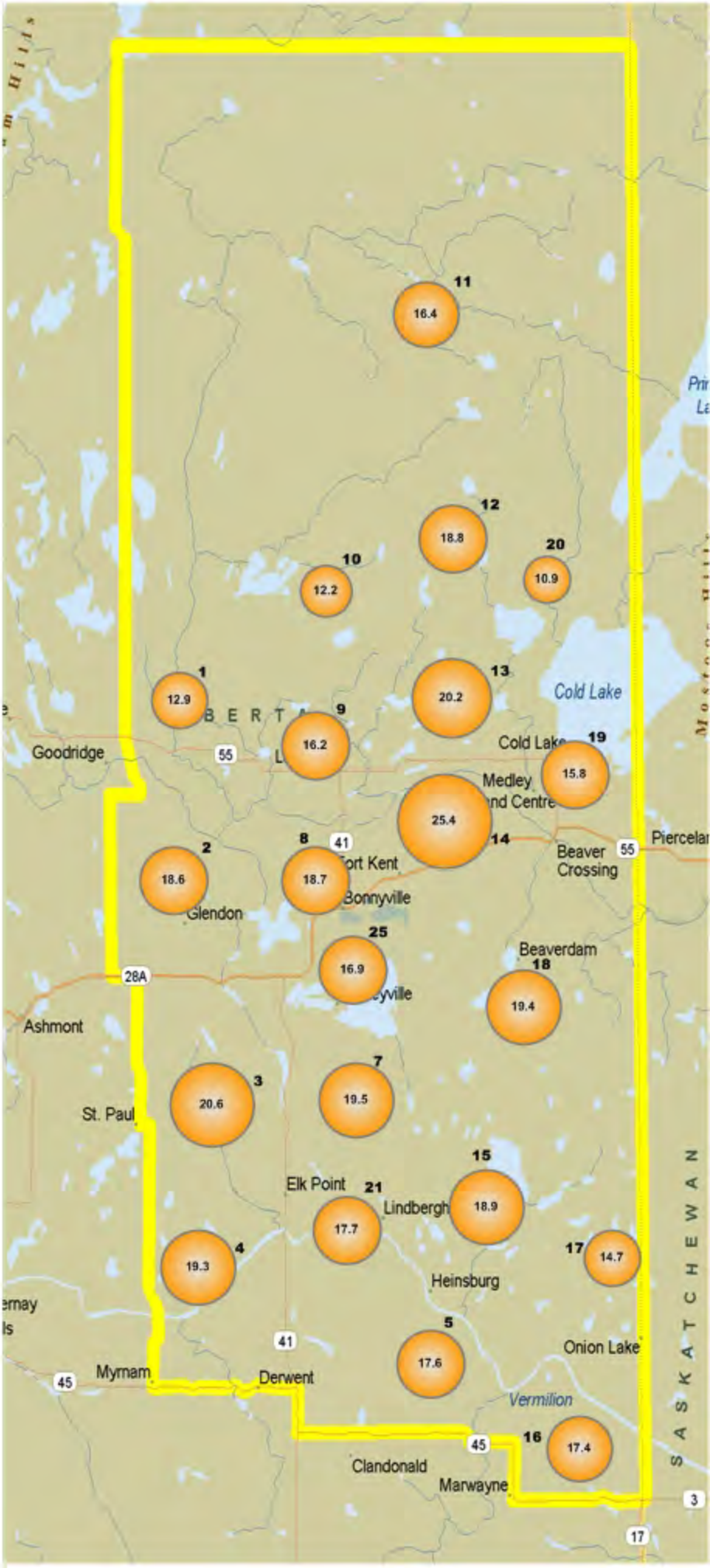
LICA
Lakeland Industry & Community Association

PASSIVE BUBBLE MAP

September 2007



Maxxam Analytics Inc



SEPTEMBER 2007
LICA PASSIVE NETWORK
LAB ANALYSIS

Maxxam Analytics Inc

Your Project #: SEPTEMBER 2007
Site:LICA

Attention: MICHAEL BISAGA
LAKELAND INDUSTRY AND COMMUNITY ASSOCIATION
PO BOX 8237
5006 - 50TH AVENUE
BONNYVILLE, AB
CANADA T9N 2J5

Report Date: 2007/10/22

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: A747415
Received: 2007/10/03, 13:47

Sample Matrix: Air
Samples Received: 1

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
H2S Passive Analysis (1)	1	2007/10/11	2007/10/15		EDM SOP-0320
NO2 Passive Analysis (1)	1	2007/10/11	2007/10/15		EDM SOP-0318
O3 Passive Analysis (1)	1	2007/10/11	2007/10/15		EDM SOP-0317
SO2 Passive Analysis (1)	1	2007/10/11	2007/10/15		EDM SOP-0319

Sample Matrix: Air
Samples Received: 25

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
H2S Passive Analysis (1)	16	2007/10/11	2007/10/15		EDM SOP-0320
NO2 Passive Analysis (1)	22	2007/10/11	2007/10/15		EDM SOP-0318
O3 Passive Analysis (1)	22	2007/10/11	2007/10/15		EDM SOP-0317
SO2 Passive Analysis (1)	25	2007/10/11	2007/10/15		EDM SOP-0319

(1) The detection limit is based on a 30 day sampling period.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

JODI HANSON, Project Manager, Customer Service
Email: jodi.hanson@maxxamanalytics.com
Phone# (780) 468-3500

==========
Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section

Your Project #: SEPTEMBER 2007
Site:LICA

Attention: MICHAEL BISAGA
LAKELAND INDUSTRY AND COMMUNITY ASSOCIATION
PO BOX 8237
5006 - 50TH AVENUE
BONNYVILLE, AB
CANADA T9N 2J5

Report Date: 2007/10/22

CERTIFICATE OF ANALYSIS

5.10.2 of ISO/IEC 17025:2005(E), signing the reports. SCC and CAEAL have approved this reporting process and electronic report format.

Total cover pages: 2

LAKELAND INDUSTRY AND COMMUNITY ASSOCIATION
Attention: MICHAEL BISAGA
Client Project #: SEPTEMBER 2007
P.O. #:
Site Reference: LICA

Maxxam Job Number : PA747415
Report Date : 2007/10/22

Sample Description	Set Number	Matrix	Date Sampled	Calculated H2S ppb	Calculated NO2 ppb	Calculated O3 ppb
1	H25730	Air	2007/08/28	N/A	0.7	12.9
2	H25731	Air	2007/08/28	0.07	1.5	18.6
3	H25732	Air	2007/08/29	N/A	1.6	20.6
4	H25733	Air	2007/08/29	0.77	1.6	20.0
5	H25734	Air	2007/08/29	N/A	1.7	17.6
7	H25735	Air	2007/08/29	N/A	1.4	19.5
8	H25736	Air	2007/08/28	N/A	1.3	18.7
9	H25737	Air	2007/08/28	0.13	1.4	16.2
10	H25738	Air	2007/08/28	0.04	0.4	12.2
11	H25739	Air	2007/08/28	0.06	0.9	16.4
12	H25740	Air	2007/08/28	0.03	0.8	18.8
13	H25741	Air	2007/08/28	0.12	1.9	20.2
14	H25742	Air	2007/08/28	N/A	1.2	25.4
15	H25743	Air	2007/08/29	0.11	1.6	18.9
16	H25744	Air	2007/08/29	0.23	1.9	17.4
17	H25745	Air	2007/08/29	0.07	1.3	14.7
18	H25746	Air	2007/08/29	N/A	0.8	19.4
19	H25747	Air	2007/08/29	0.09	2.1	15.8
20	H25748	Air	2007/08/29	N/A	0.3	10.9
21	H25749	Air	2007/08/29	0.14	2.8	18.2
21A	H25750	Air	2007/08/29	0.10	2.2	17.2
4A	H25751	Air	2007/08/29	0.69	1.2	18.5
22	H25754	Air	2007/08/28	0.05	N/A	N/A
23	H25755	Air	2007/08/28	0.09	N/A	N/A
24	H25756	Air	2007/08/28	0.21	N/A	N/A
25	H25757	Air	2007/08/28	N/A	4.3	16.9

LAKELAND INDUSTRY AND COMMUNITY ASSOCIATION
Attention: MICHAEL BISAGA
Client Project #: SEPTEMBER 2007
P.O. #:
Site Reference: LICA

Maxxam Job Number : PA747415
Report Date : 2007/10/22

Sample Description	Set Number	Matrix	Date Sampled	Calculated SO2 ppb
1	H25730	Air	2007/08/28	0.3
2	H25731	Air	2007/08/28	0.4
3	H25732	Air	2007/08/29	0.4
4	H25733	Air	2007/08/29	0.7
5	H25734	Air	2007/08/29	0.4
7	H25735	Air	2007/08/29	0.5
8	H25736	Air	2007/08/28	0.3
9	H25737	Air	2007/08/28	0.3
10	H25738	Air	2007/08/28	0.3
11	H25739	Air	2007/08/28	0.6
12	H25740	Air	2007/08/28	DAMAGED
13	H25741	Air	2007/08/28	1.1
14	H25742	Air	2007/08/28	0.4
15	H25743	Air	2007/08/29	0.4
16	H25744	Air	2007/08/29	0.4
17	H25745	Air	2007/08/29	0.5
18	H25746	Air	2007/08/29	0.4
19	H25747	Air	2007/08/29	0.4
20	H25748	Air	2007/08/29	0.4
21	H25749	Air	2007/08/29	0.6
21A	H25750	Air	2007/08/29	0.4
4A	H25751	Air	2007/08/29	0.7
22	H25754	Air	2007/08/28	0.5
23	H25755	Air	2007/08/28	0.5
24	H25756	Air	2007/08/28	1.9
25	H25757	Air	2007/08/28	0.4

LAKELAND INDUSTRY AND COMMUNITY ASSOCIATION
Attention: MICHAEL BISAGA
Client Project #: SEPTEMBER 2007
P.O. #:
Site Reference: LICA

Quality Assurance Report

Maxxam Job Number: PA747415

QA/QC Batch Num	Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
1897214	KR	Calibration Check	Calculated H2S	2007/10/12		105	%	80 - 120
		SPIKE	Calculated H2S	2007/10/12		98	%	N/A
1897215	DF4	Calibration Check	Calculated NO2	2007/10/11		100	%	76 - 118
		SPIKE	Calculated NO2	2007/10/11		100	%	N/A
		BLANK	Calculated NO2	2007/10/11	<0.1		ppb	
1897216	DF4	Calibration Check	Calculated O3	2007/10/15		101	%	91 - 107
		SPIKE	Calculated O3	2007/10/15		100	%	N/A
		BLANK	Calculated O3	2007/10/15	<0.1		ppb	
1897221	DF4	Calibration Check	Calculated SO2	2007/10/11		99	%	95 - 105
		SPIKE	Calculated SO2	2007/10/11		101	%	N/A
		BLANK	Calculated SO2	2007/10/11	<0.1		ppb	

N/A = Not Applicable

SEPTEMBER 2007
PASSIVE FIELD DATA

LAKELAND INDUSTRY & COMMUNITY ASSOCIATION
PASSIVE FIELD DATA

SAMPLER	ID	START		END		NOTES
		DATE	TIME	DATE	TIME	
$SO_2/NO_2/O_3$	1	08/28/07	10:35	09/27/07	10:00	
$H_2S/SO_2/NO_2/O_3$	2	0828/07	10:00	09/27/07	9:30	
$SO_2/NO_2/O_3$	3	08/29/07	14:40	09/28/07	16:30	
$H_2S/SO_2/NO_2/O_3$	4	08/29/07	14:00	09/28/07	15:55	
$SO_2/NO_2/O_3$	5	08/29/07	12:30	09/28/07	14:25	
$SO_2/NO_2/O_3$	7	08/29/07	15:25	09/28/07	17:20	
$SO_2/NO_2/O_3$	8	08/28/07	9:30	09/27/07	8:40	O3 CARTRIDGE DAMAGED
$H_2S/SO_2/NO_2/O_3$	9	08/28/07	14:35	09/27/07	14:15	
$H_2S/SO_2/NO_2/O_3$	10	08/28/07	11:35	09/27/07	11:30	
$H_2S/SO_2/NO_2/O_3$	11	08/28/07	13:00	09/27/07	12:45	
$H_2S/SO_2/NO_2/O_3$	12	08/28/07	15:55	09/28/07	8:40	SITE VANDALIZED
$H_2S/SO_2/NO_2/O_3$	13	08/28/07	16:30	09/27/07	17:00	
$SO_2/NO_2/O_3$	14	08/28/07	8:20	09/27/07	7:45	
$H_2S/SO_2/NO_2/O_3$	15	08/29/07	10:50	09/28/07	13:00	
$H_2S/SO_2/NO_2/O_3$	16	08/29/07	11:35	09/28/07	13:40	
$H_2S/SO_2/NO_2/O_3$	17	08/29/07	10:10	09/28/07	12:15	
$SO_2/NO_2/O_3$	18	08/29/07	9:15	09/28/07	11:15	
$H_2S/SO_2/NO_2/O_3$	19	08/29/07	16:45	09/28/07	10:10	
$SO_2/NO_2/O_3$	20	08/29/07	7:50	09/27/07	18:15	
$H_2S/SO_2/NO_2/O_3$	21	08/29/07	13:25	09/28/07	15:15	
H_2S/SO_2	22	08/28/07	15:45	09/27/07	15:50	
H_2S/SO_2	23	08/28/07	16:20	09/27/07	16:40	
H_2S/SO_2	24	08/28/07	16:45	09/27/07	17:20	
$SO_2/NO_2/O_3$	25	08/28/07	8:55	09/27/07	8:20	
$H_2S/SO_2/NO_2/O_3$	15A	08/29/07	13:25	09/28/07	15:15	
$H_2S/SO_2/NO_2/O_3$	16A	08/29/07	14:00	09/28/07	15:55	

SEPTEMBER 2007
PASSIVE FIELD PHOTOS

PHOTO – DAMAGED PASSIVE STATION # 12