

PARKLAND AIRSHED MANAGEMENT ZONE

**CONTINUOUS AMBIENT AIR QUALITY
MONITORING PROGRAM
MONTHLY REPORT**

**MOBILE MONITORING STATION
BENTLEY
NOVEMBER / DECEMBER 2002**

Operations and Data Collection by:
RSL Environmental Networks Inc.
Calgary, Alberta

QA/QC, Data Validation and Reporting by:
RSL Environmental Networks Inc.
Calgary, Alberta

December 13, 2002

**Parkland Airshed Management Zone
Station Summary**

AMS 110 (Bentley)
November 2002

Parameter	Calibration Hours	Number of Data	Percent Up Time	Mean	Min	P10	Q1	Median	Q3	P90	Max
SO2 (ppb)	32	569	92.5	0.69	0.0	0.1	0.3	0.6	0.9	1.4	5.0
H2S (ppb)	32	588	92.7	0.87	0.0	0.0	0.2	0.5	1.1	2.4	21.0
TRS (ppb)	31	590	92.8	1.07	0.0	0.2	0.3	0.6	1.4	2.8	22.0
O3 (ppb)	31	569	92.6	20.75	1.0	4.9	13.3	21.5	28.2	35.4	44.0
NO (ppb)	34	567	92.5	1.96	0.0	0.1	0.2	0.6	1.8	5.2	41.0
NO2 (ppb)	34	567	92.5	7.63	0.0	2.5	4.2	6.6	10.1	14.1	25.0
NOX (ppb)	34	567	92.5	9.57	0.0	2.8	4.9	7.4	12.5	20.4	48.0
THC (ppm)	30	555	92.4	2.78	2.2	2.3	2.4	2.6	3.0	3.4	6.1
CH4 (ppm)	30	555	92.4	2.26	1.8	1.9	2.0	2.1	2.4	2.8	5.2
NH3 (ppm)	37	563	92.6	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Wind Speed (kph)	0	631	92.4	6.61	0.0	2.0	3.4	5.3	8.4	12.0	37.0
External Temperature (C)	0	633	93.0	-0.13	-18.2	-8.7	-4.4	0.7	4.2	7.3	15.1
Global Radiation (W/m2)	0	633	93.0	47.55	0.0	0.0	0.0	0.0	66.0	195.5	355.0
Relative Humidity (%)	0	633	93.0	70.11	27.4	50.9	57.8	72.2	83.3	88.5	95.0

Parkland Airshed Management Zone - Frequency Table

Bentley - SO2 - November 6 2002 18:00 to December 3 2002 12:00

Pollutant Classes (ppb)	Frequency (hours)
2 - 20	46
21 - 30	0
31 - 60	0
61 - 110	0
111 - 170	0
171 - 340	0
> 340	0

Total Number of Valid Data = 46

Bentley - H2S - November 6 2002 21:00 to December 4 2002 11:00

Pollutant Classes (ppb)	Frequency (hours)
2 - 3	71
4 - 10	27
11 - 50	1
> 50	0

Total Number of Valid Data = 99

Bentley - TRS - November 6 2002 21:00 to December 4 2002 11:00

Pollutant Classes (ppb)	Frequency (hours)
2 - 3	97
4 - 10	37
11 - 50	2
> 50	0

Total Number of Valid Data = 136

Bentley - NO2 - November 6 2002 19:00 to December 3 2002 11:00

Pollutant Classes (ppb)	Frequency (hours)
2 - 50	506
51 - 110	0
111 - 210	0
> 210	0

Total Number of Valid Data = 506

Bentley - Wind Speed - November 6 2002 00:00 to December 4 2002 11:00

Wind Speed Classes (kph)	Frequency (hours)
1 - 5	322
6 - 11	218
12 - 19	49
20 - 28	19
29 - 38	4
> 38	0

Total Number of Valid Data = 612

**Parkland Airshed Management Zone
Downtime Summary**

**AMS 110 Bentley
November / December 2002**

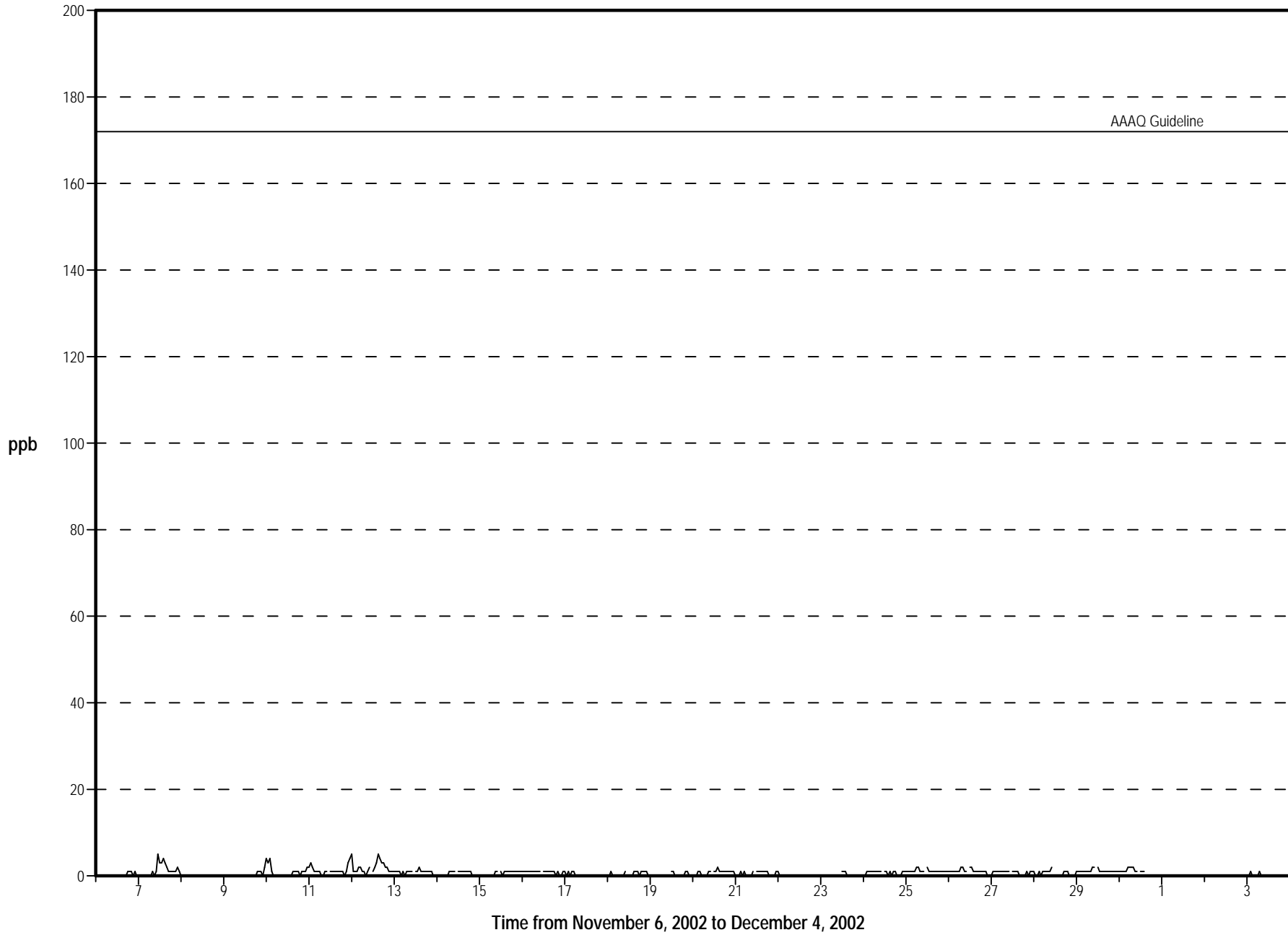
Parameter	Start	End	Duration (hrs)	Notes
SO ₂	30Nov02:16:00	02Dec02:16:00	49	Power cord unplugged
H ₂ S	30Nov02:16:00	02Dec02:16:00	49	Power cord unplugged
TRS	30Nov02:16:00	02Dec02:15:00	48	Power cord unplugged
NO / NO ₂ / NO _x	30Nov02:16:00	02Dec02:16:00	49	Power cord unplugged
O ₃	30Nov02:16:00	02Dec02:15:00	48	Power cord unplugged
THC	30Nov02:16:00	02Dec02:15:00	48	Power cord unplugged
CH ₄	30Nov02:16:00	02Dec02:15:00	48	Power cord unplugged
NH ₃	30Nov02:16:00	02Dec02:15:00	48	Power cord unplugged
Wind Speed	30Nov02:16:00	02Dec02:15:00	48	Power cord unplugged
	04Dec02:03:00	04Dec02:04:00	2	Wind sensor frozen
	04Dec02:08:00	04Dec02:09:00	2	Wind sensor frozen
Wind Direction	09Nov02:05:00	09Nov02:11:00	7	Wind sensor frozen
	09Nov02:13:00	09Nov02:15:00	3	Wind sensor frozen
	30Nov02:16:00	02Dec02:15:00	48	Power cord unplugged
External Temperature	30Nov02:16:00	02Dec02:15:00	48	Power cord unplugged
Relative Humidity	30Nov02:16:00	02Dec02:15:00	48	Power cord unplugged
Global Radiation	30Nov02:16:00	02Dec02:15:00	48	Power cord unplugged

Parkland Airshed Management Zone
Summary of Hourly Averages

AMS 110 (Bentley)
 November 6, 2002 to December 4, 2002
 SO2 (ppb)

Day	Hourly Period Ending At																								Daily Average	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
6	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	CAL	CAL	CAL	CAL	0	1	1	1	0	1	0	0.6	
7	0	ZS	0	0	0	0	0	0	0	1	0	1	5	3	3	4	3	2	1	1	1	1	1	2	1	1.3
8	0	ZS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	ZS	0	0	0	0	0	0	1	1	1	0	2	0.2
10	4	3	4	1	0	0	0	0	0	0	0	0	ZS	0	0	0	1	1	1	1	0	1	1	1	2	0.9
11	2	3	2	1	1	1	1	0	0	1	1	ZS	1	1	1	1	1	1	1	1	0	1	3	4	1.3	
12	5	1	1	1	2	2	1	1	0	1	2	ZS	1	2	3	5	4	3	3	2	2	1	1	1	2.0	
13	1	1	1	1	0	1	0	1	1	1	1	ZS	1	1	2	1	1	1	1	1	1	1	0	0	0.9	
14	0	0	0	0	0	0	0	1	1	1	1	ZS	1	1	1	1	1	1	1	1	0	0	0	0	0.5	
15	0	0	0	0	0	0	0	0	0	1	1	ZS	1	0	1	1	1	1	1	1	1	1	1	1	0.6	
16	1	1	1	1	1	1	1	1	1	1	1	ZS	1	1	1	1	1	1	1	0	1	0	0	1	0.9	
17	1	0	1	0	1	1	0	0	0	0	0	ZS	0	0	0	0	0	0	0	0	0	0	0	0	0.2	
18	0	0	1	0	0	0	0	0	0	0	1	ZS	0	0	0	1	1	1	0	1	1	1	1	0	0.4	
19	0	0	0	0	0	0	0	0	0	0	0	ZS	1	1	0	0	0	0	0	0	1	1	0	0	0.2	
20	0	0	0	1	1	0	0	0	0	1	1	ZS	1	1	2	1	1	1	1	1	1	1	1	1	0.7	
21	0	0	0	1	0	1	0	0	0	0	1	ZS	1	1	1	1	1	1	1	0	0	0	0	1	0.5	
22	1	0	0	0	0	0	0	0	0	0	0	ZS	0	0	0	0	0	0	0	0	0	0	0	0	0.0	
23	0	0	0	0	0	0	0	0	0	0	0	ZS	1	1	1	0	0	0	0	0	0	0	0	0	0.1	
24	0	0	1	1	1	1	1	1	1	1	1	ZS	1	1	0	1	0	1	1	0	0	0	1	1	0.7	
25	1	1	1	1	1	1	2	2	1	1	1	ZS	2	1	1	1	1	1	1	1	1	1	1	1	1.1	
26	1	1	1	1	1	1	1	2	2	1	1	ZS	2	2	1	1	1	1	1	1	1	0	0	0	1.1	
27	0	1	1	1	1	1	1	1	1	1	1	ZS	1	1	1	1	0	0	0	0	1	0	1	1	0.7	
28	1	0	0	1	0	1	1	1	1	1	2	ZS	0	0	0	0	0	1	1	1	0	0	0	0	0.5	
29	1	1	1	1	1	1	1	1	1	1	2	ZS	2	1	1	1	1	1	1	1	1	1	1	1	1.1	
30	1	1	1	1	1	2	2	2	2	1	1	ZS	1	1	1	PF	PF	PF	PF	PF	PF	PF	PF	PF	1.3	
1	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	---	
2	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	0	0	0	0	0	0	0	0.0	
3	0	0	1	0	0	0	0	1	0	0	0	ZS	CAL	CAL	CAL	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.2	
	0.8	0.6	0.7	0.6	0.5	0.6	0.5	0.6	0.5	0.6	0.8	2.5	0.9	0.8	0.9	1.0	0.8	0.7	0.7	0.6	0.6	0.5	0.6	0.7		
Diurnal Average																										
ZS - Zero/Span Calibration				CAL - Multipoint Calibration				M - Maintenance				DAF - Data Acquisition Failure														
AF - Analyzer Failure				UO - Unstable Operation				PF - Power Failure				NS - Not in Service														
Maximum Value in Table: 5				First Occurrence on Day 7 Hour 12				Frequency: 3				Hours in Service: 650														
Minimum Value in Table: 0				First Occurrence on Day 6 Hour 18				Frequency: 253				Hours of Data: 569														
Maximum Daily Value: 2.0				First Occurrence on Day 12				Minimum Daily Value: 0				Hours of Missing Data: 81														
Maximum Diurnal Value: 3				First Occurrence at Hour 12				Minimum Diurnal Value: 0				Hours of Calibration: 32														
Monthly Mean: 0.7				Percentiles: P10 = 0.1 Q1 = 0.3 Median = 0.6 Q3 = 0.9 P90 = 1.4				First Occurrence on Day 8				Percent Operational Time: 92.46														
								First Occurrence at Hour 5																		

Bentley SO2 Hourly Averages

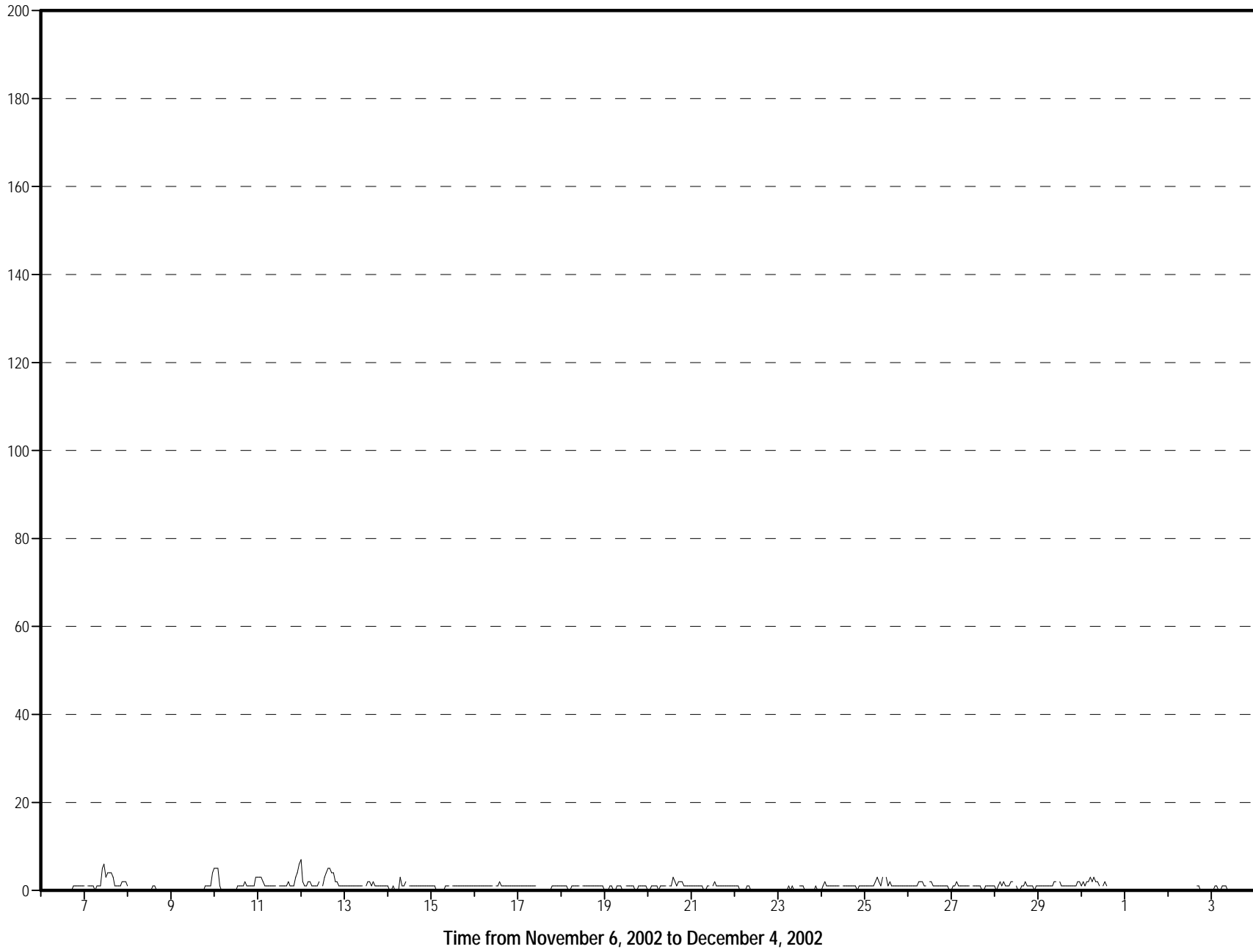


Parkland Airshed Management Zone
Summary of Maximum Value in each Hour

AMS 110 (Bentley)
 November 2002
 SO2 (ppb)

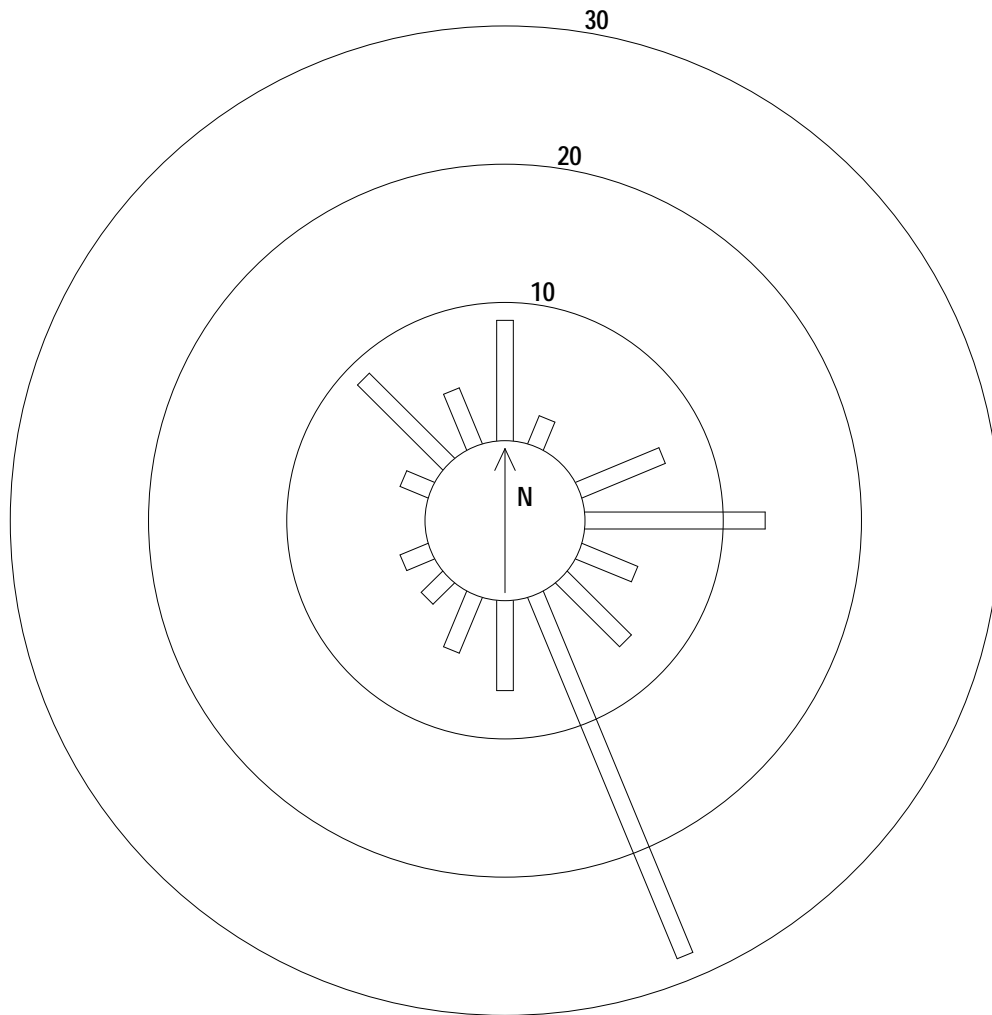
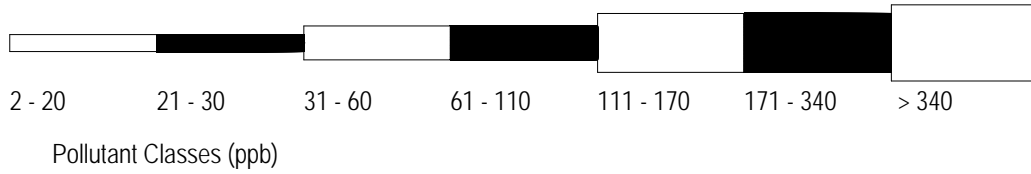
Day	Hourly Period Ending At																								Daily Average
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	1	1	1	1	1	1	1	0.9
7	1	--	1	1	1	1	0	1	1	1	5	6	3	4	4	4	3	1	1	1	1	2	2	2	2.0
8	1	--	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0.1
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0.3
10	5	5	5	1	0	0	0	0	0	0	0	--	0	1	1	1	1	2	1	1	1	1	1	3	1.3
11	3	3	3	2	1	1	1	1	1	1	1	--	1	1	1	1	1	2	1	1	1	3	4	6	1.8
12	7	2	1	1	2	2	1	1	1	1	2	--	1	3	4	5	5	4	4	2	2	1	1	1	2.3
13	1	1	1	1	1	1	1	1	1	1	1	--	1	2	2	1	2	1	1	1	1	1	1	1	1.1
14	1	0	0	1	0	0	0	3	1	1	2	--	1	1	1	1	1	1	1	1	1	1	1	1	0.9
15	1	1	1	0	0	0	0	0	1	1	1	--	1	1	1	1	1	1	1	1	1	1	1	1	0.8
16	1	1	1	1	1	1	1	1	1	1	1	--	1	1	2	1	1	1	1	1	1	1	1	1	1.0
17	1	1	1	1	1	1	1	1	1	1	1	--	0	0	0	0	0	0	0	1	1	1	1	1	0.7
18	1	1	1	1	0	0	1	1	1	1	1	--	1	1	1	1	1	1	1	1	1	1	1	1	0.9
19	0	0	0	1	1	0	0	1	1	1	0	--	1	1	1	1	1	0	0	1	1	1	1	1	0.7
20	0	0	1	1	1	1	0	1	1	1	1	--	1	1	3	2	1	2	2	2	1	1	1	1	1.1
21	1	1	1	1	1	1	1	0	0	1	1	--	1	2	1	1	1	1	1	1	1	1	1	1	1.0
22	1	1	1	0	0	0	0	1	1	0	0	--	0	0	0	0	0	0	0	0	0	0	0	0	0.2
23	0	0	0	0	0	0	1	0	1	0	0	--	1	1	1	0	0	0	0	0	0	1	0	0	0.3
24	0	1	2	1	1	1	1	1	1	1	1	--	1	1	1	1	1	1	1	1	0	1	1	1	1.0
25	1	1	1	1	1	1	2	3	2	1	3	--	3	1	2	1	1	1	1	1	1	1	1	1	1.4
26	1	1	1	1	1	1	2	2	2	1	1	--	2	2	1	1	1	1	1	1	1	1	1	0	1.2
27	0	1	1	2	1	1	1	1	1	1	1	--	1	1	1	1	1	0	0	1	1	1	1	1	0.9
28	1	0	1	2	1	2	1	1	1	2	2	--	1	0	0	1	1	2	1	1	1	1	0	1	1.0
29	1	1	1	1	1	1	1	1	1	2	2	--	2	1	1	1	1	1	1	1	1	1	2	2	1.2
30	1	2	1	2	2	3	2	3	2	2	1	--	1	2	1	--	--	--	--	--	--	--	--	--	1.8
1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	---
2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	1	0	0	0	0	0	0	0.3
3	0	0	1	1	0	0	1	1	1	0	0	--	--	--	--	--	--	--	--	--	--	--	--	--	0.5
	1.2	1.0	1.1	1.0	0.7	0.8	0.8	1.0	1.0	0.9	1.1	3.0	1.0	1.2	1.3	1.2	1.1	1.0	0.8	0.9	0.8	1.0	1.0	1.3	
Diurnal Average																									
ZS - Zero/Span Calibration	CAL - Multipoint Calibration						M - Maintenance						DAF - Data Acquisition Failure												
AF - Analyzer Failure	UO - Unstable Operation						SP - Spurious/Invalid Data						NS - Not in Service												
Maximum Value in Table: 7	First Occurrence on Day 12 Hour 1						Frequency: 1																		
Minimum Value in Table: 0	First Occurrence on Day 6 Hour 18						Frequency: 137																		
Maximum Daily Value: 2	First Occurrence on Day 12						Minimum Daily Value: 0						First Occurrence on Day 8												
Maximum Diurnal Value: 3	First Occurrence at Hour 12						Minimum Diurnal Value: 1						First Occurrence at Hour 5												
Monthly Mean: 1.0	Percentiles: P10 = 0.3 Q1 = 0.5 Median = 0.9 Q3 = 1.2 P90 = 1.8																								

Bentley SO2 Maximum Values



Parkland Airshed Management Zone

Bentley - SO2 - November 6, 2002 18:00 to December 3, 2002 12:00

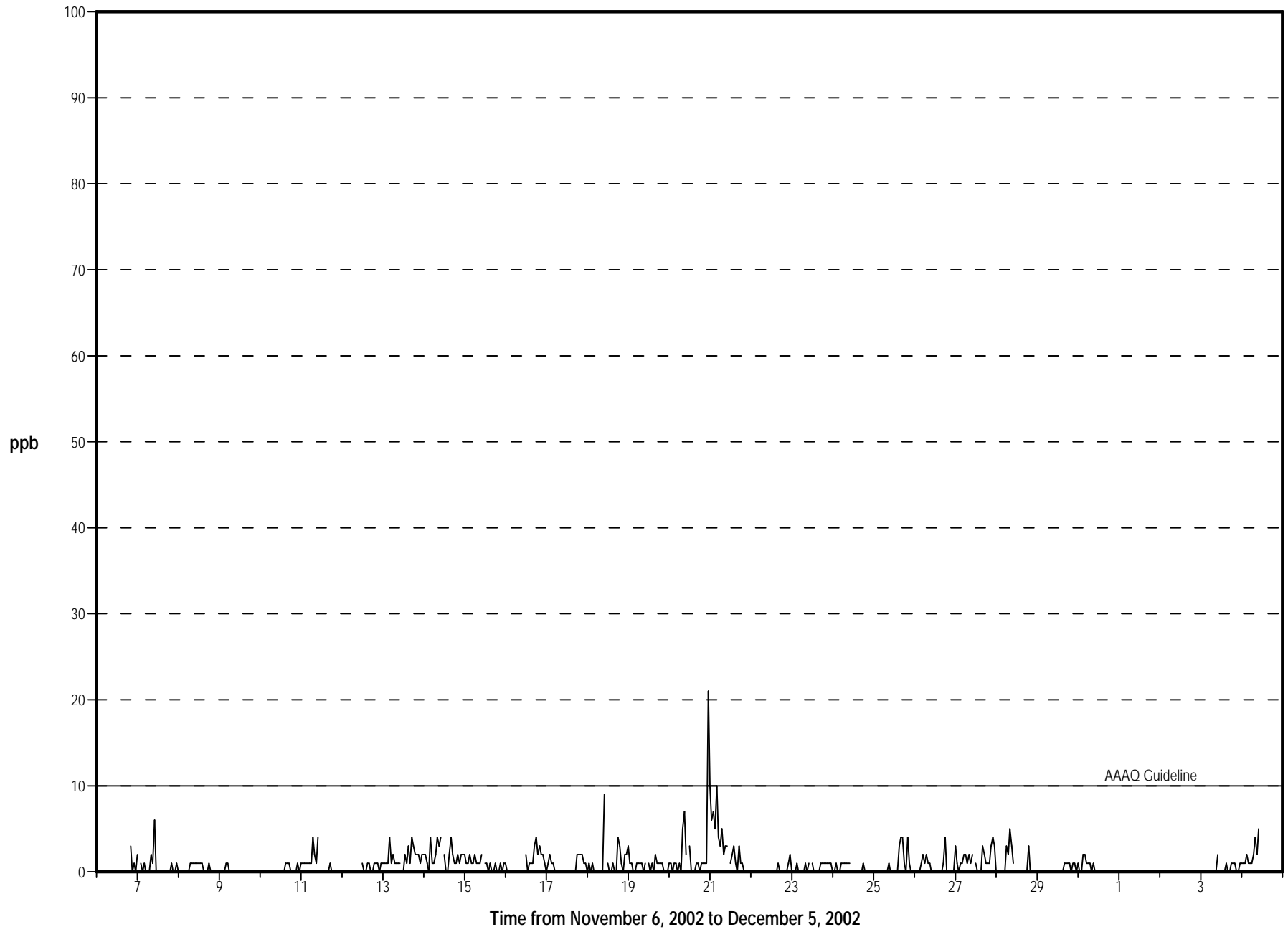


Parkland Airshed Management Zone
Summary of Hourly Averages

AMS 110 (Bentley)
 November 6, 2002 to December 5, 2002
 H2S (ppb)

Day	Hourly Period Ending At																								Daily Average
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
6	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	CAL	CAL	CAL	CAL	3	0	1	0	1.0
7	2	ZS	1	0	1	0	0	0	2	1	6	0	0	0	0	0	0	0	0	0	1	0	0	1	0.7
8	0	ZS	0	0	0	0	0	1	1	1	1	1	1	1	1	0	0	0	1	0	0	0	0	0	0.4
9	0	0	0	0	1	1	0	0	0	0	0	ZS	0	0	0	0	0	0	0	0	0	0	0	0	0.1
10	0	0	0	0	0	0	0	0	0	0	0	ZS	0	0	0	1	1	1	0	0	0	0	1	0	0.2
11	1	1	1	1	1	1	1	1	4	2	1	4	ZS	0	0	0	0	0	1	0	0	0	0	0	0.8
12	0	0	0	0	0	0	0	0	0	0	0	ZS	1	0	0	1	1	0	0	1	1	1	0	1	0.3
13	1	1	1	1	4	1	2	1	1	1	1	ZS	0	2	1	3	1	4	3	2	2	2	1	2	1.7
14	2	2	1	0	4	1	1	2	4	3	4	ZS	2	0	0	2	4	2	1	1	2	1	2	2	1.9
15	2	1	1	2	1	1	2	1	1	1	2	ZS	1	1	0	1	0	0	1	0	0	1	0	1	0.9
16	1	0	0	0	0	0	0	0	0	0	0	ZS	2	0	1	1	1	3	4	2	3	2	2	1	1.0
17	0	1	2	1	1	0	0	0	0	0	0	ZS	0	0	0	0	0	0	2	2	2	2	1	1	0.7
18	0	1	0	1	0	0	0	0	0	0	9	ZS	1	0	0	1	0	0	4	3	1	0	2	2	1.1
19	3	1	1	0	0	1	1	1	1	0	1	ZS	1	0	1	0	2	1	1	1	1	0	0	0	0.8
20	1	1	0	1	1	0	1	0	5	7	2	ZS	3	0	0	0	1	1	0	1	1	1	1	21	2.1
21	10	6	7	5	10	4	3	5	2	3	3	ZS	1	2	3	1	0	3	1	1	0	0	0	0	3.0
22	0	0	0	0	0	0	0	0	0	0	0	ZS	0	0	0	0	1	0	0	0	0	0	1	2	0.2
23	0	0	0	1	0	0	0	0	0	1	0	1	ZS	1	0	0	0	0	1	1	1	1	1	1	0.5
24	0	0	1	0	0	1	1	1	1	1	1	ZS	0	0	0	0	0	0	1	0	0	0	0	0	0.3
25	0	0	0	0	0	0	0	0	0	0	1	0	ZS	0	0	0	3	4	4	1	0	4	1	0	0.8
26	0	0	0	0	1	2	1	2	1	1	0	ZS	0	0	0	0	0	1	4	0	0	0	0	0	0.6
27	3	1	0	1	1	2	2	1	2	1	2	ZS	1	0	0	0	3	2	1	1	1	3	4	3	1.5
28	0	0	0	0	0	0	3	2	5	3	1	ZS	0	0	CAL	0	0	0	0	3	0	0	0	0	0.8
29	0	0	0	0	0	0	0	0	0	0	0	ZS	0	0	0	0	1	1	1	1	0	1	1	0	0.3
30	1	0	0	2	2	1	1	1	0	1	0	ZS	0	0	0	PF	PF	PF	PF	PF	PF	PF	PF	PF	0.6
1	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	---
2	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	0	0	0	0	0	0	0	0.0
3	0	0	0	0	0	0	0	0	0	0	2	ZS	0	0	0	1	0	0	1	1	1	0	0	1	0.3
4	1	1	1	2	1	1	1	2	4	2	5	CAL	CAL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	1.9
	1.1	0.7	0.7	0.7	1.1	0.7	0.8	0.9	1.3	1.1	1.7	0.5	0.6	0.2	0.3	0.6	0.8	1.0	1.1	0.8	0.9	0.6	0.7	1.5	
	Diurnal Average																								
	ZS - Zero/Span Calibration						CAL - Multipoint Calibration						M - Maintenance						DAF - Data Acquisition Failure						
	AF - Analyzer Failure						UO - Unstable Operation						PF - Power Failure						NS - Not in Service						
	Maximum Value in Table: 21				First Occurrence on Day 20 Hour 24				Frequency: 1				Hours in Service: 669												
	Minimum Value in Table: 0				First Occurrence on Day 6 Hour 22				Frequency: 312				Hours of Data: 588												
	Maximum Daily Value: 3.0				First Occurrence on Day 21				Minimum Daily Value: 0				First Occurrence on Day 2												
	Maximum Diurnal Value: 2				First Occurrence at Hour 11				Minimum Diurnal Value: 0				First Occurrence at Hour 14												
	Monthly Mean: 0.9 Percentiles: P10 = 0.0 Q1 = 0.2 Median = 0.5 Q3 = 1.1 P90 = 2.4																								
	Hours of Missing Data: 81				Hours of Calibration: 32				Percent Operational Time: 92.68																

Bentley H2S Hourly Averages

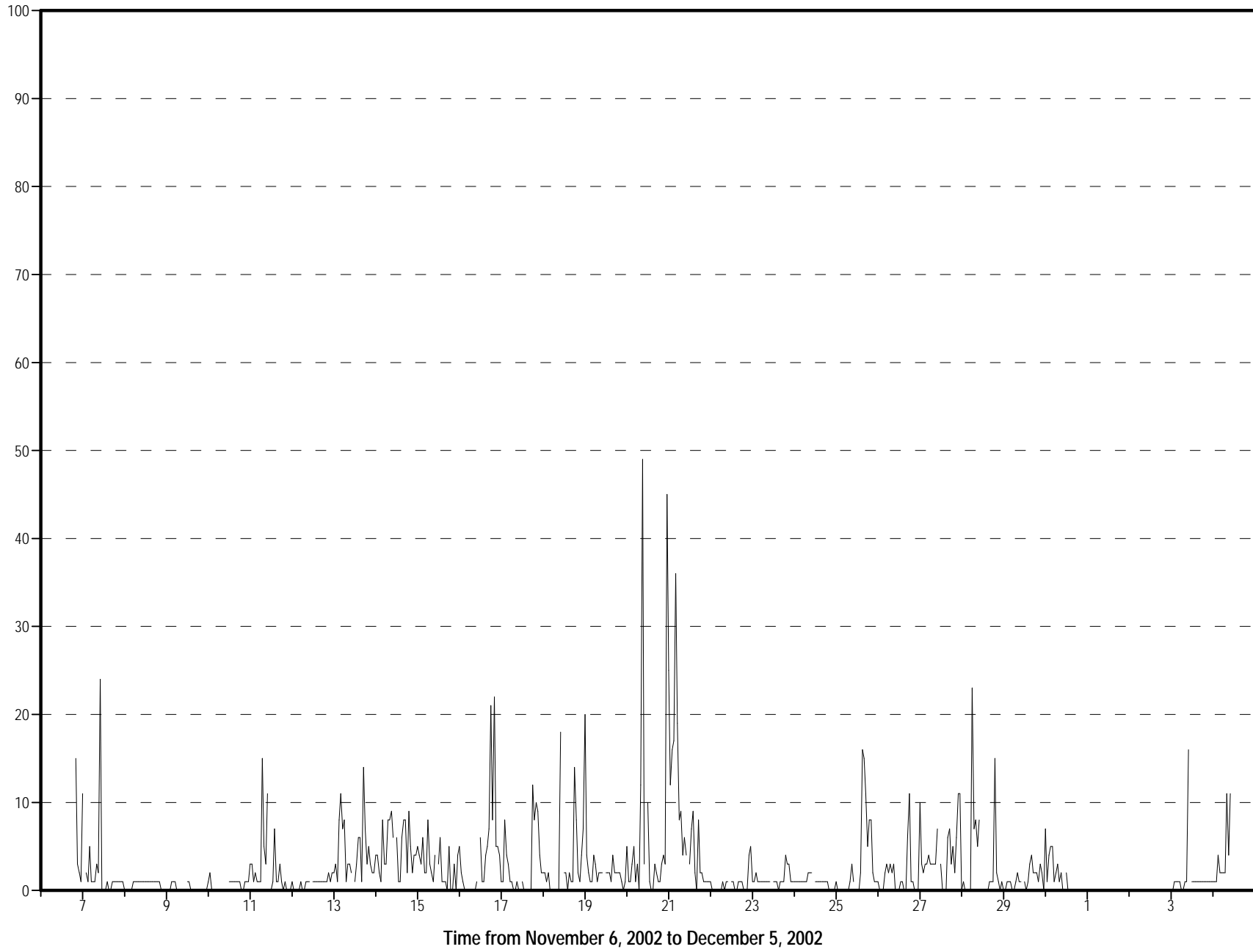


Parkland Airshed Management Zone
Summary of Maximum Value in each Hour

AMS 110 (Bentley)
 November 2002
 H2S (ppb)

Day	Hourly Period Ending At																								Daily Average
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	15	3	2	1	5.3
7	11	--	2	1	5	1	1	1	3	2	24	0	0	0	1	0	0	1	1	1	1	1	1	1	2.6
8	0	--	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0.7
9	0	0	0	1	1	1	0	0	0	0	0	--	1	1	0	0	0	0	0	0	0	0	0	0	0.2
10	1	2	0	0	0	0	0	0	0	0	0	--	1	1	1	1	1	1	1	0	0	1	1	1	0.6
11	3	3	1	2	1	1	1	15	5	3	11	--	0	1	7	1	1	3	1	0	1	0	0	0	2.7
12	1	0	0	0	0	1	0	0	1	1	1	--	1	1	1	1	1	1	1	1	1	2	1	2	0.8
13	2	3	1	8	11	7	8	1	3	3	2	--	1	3	6	6	1	14	7	3	5	3	2	2	4.4
14	4	4	2	1	8	3	3	8	8	9	6	--	6	1	1	6	8	8	2	9	5	2	4	4	4.9
15	5	4	3	6	2	2	8	3	2	1	4	--	3	6	1	1	1	0	5	0	0	3	0	4	2.8
16	5	2	1	0	0	0	0	0	0	0	1	--	6	1	1	4	5	7	21	8	22	5	5	4	4.3
17	1	1	8	4	3	1	1	0	0	1	0	--	1	0	0	0	0	0	12	8	10	9	4	2	2.9
18	2	2	1	2	0	0	0	0	0	0	18	--	2	2	0	2	1	1	14	8	2	1	4	7	3.0
19	20	4	2	1	1	4	3	1	2	2	2	--	2	2	2	1	4	2	2	2	2	1	0	1	2.7
20	5	1	1	3	5	1	3	0	12	49	3	--	10	1	0	0	3	2	1	1	3	4	3	45	6.8
21	25	12	16	17	36	19	8	9	4	6	4	--	3	7	9	2	0	8	2	2	1	1	1	1	8.4
22	1	0	0	0	0	0	0	1	0	1	1	--	1	1	0	0	1	1	1	0	0	0	4	5	0.8
23	1	1	2	1	1	1	1	1	1	1	1	--	1	1	1	0	1	1	1	4	3	3	1	1	1.3
24	1	1	1	1	1	1	1	1	1	2	2	2	--	1	1	1	1	1	1	1	0	0	0	0	1.0
25	1	0	0	0	0	0	0	0	1	3	1	--	0	0	2	16	15	11	5	8	8	2	1	1	3.3
26	1	0	0	0	2	3	2	3	2	3	0	--	0	1	1	0	0	6	11	1	1	0	0	0	1.6
27	10	3	2	3	3	4	3	3	3	3	7	--	3	0	0	0	6	7	3	5	2	6	11	11	4.3
28	0	1	0	0	0	0	23	7	8	5	8	--	0	0	--	0	1	1	1	15	2	1	0	1	3.4
29	0	0	1	1	1	0	0	1	2	1	1	--	1	0	1	3	4	2	2	2	1	3	2	0	1.3
30	7	1	4	5	5	1	2	3	1	2	0	--	2	0	0	--	--	--	--	--	--	--	--	--	2.4
1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	---
2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0	0.0
3	0	0	1	1	1	1	0	0	1	1	16	--	1	1	1	1	1	1	1	1	1	1	1	1	1.5
4	1	1	1	4	2	2	2	2	11	4	11	--	--	--	--	--	--	--	--	--	--	--	--	--	3.7
	4.2	1.9	1.9	2.4	3.4	2.1	2.7	2.3	2.8	4.0	4.8	0.5	1.9	1.3	1.6	2.0	2.3	3.2	3.9	3.2	3.3	2.0	1.8	3.7	
Diurnal Average																									
ZS - Zero/Span Calibration						CAL - Multipoint Calibration						M - Maintenance						DAF - Data Acquisition Failure							
AF - Analyzer Failure						UO - Unstable Operation						SP - Spurious/Invalid Data						NS - Not in Service							
Maximum Value in Table: 49				First Occurrence on Day 20 Hour 10				Frequency: 1																	
Minimum Value in Table: 0				First Occurrence on Day 7 Hour 12				Frequency: 152																	
Maximum Daily Value: 8				First Occurrence on Day 21				Minimum Daily Value: 0				First Occurrence on Day 2													
Maximum Diurnal Value: 5				First Occurrence at Hour 11				Minimum Diurnal Value: 1				First Occurrence at Hour 12													
Monthly Mean: 2.7 Percentiles: P10 = 0.2 Q1 = 0.5 Median = 0.9 Q3 = 3.0 P90 = 7.4																									

Bentley H2S Maximum Values

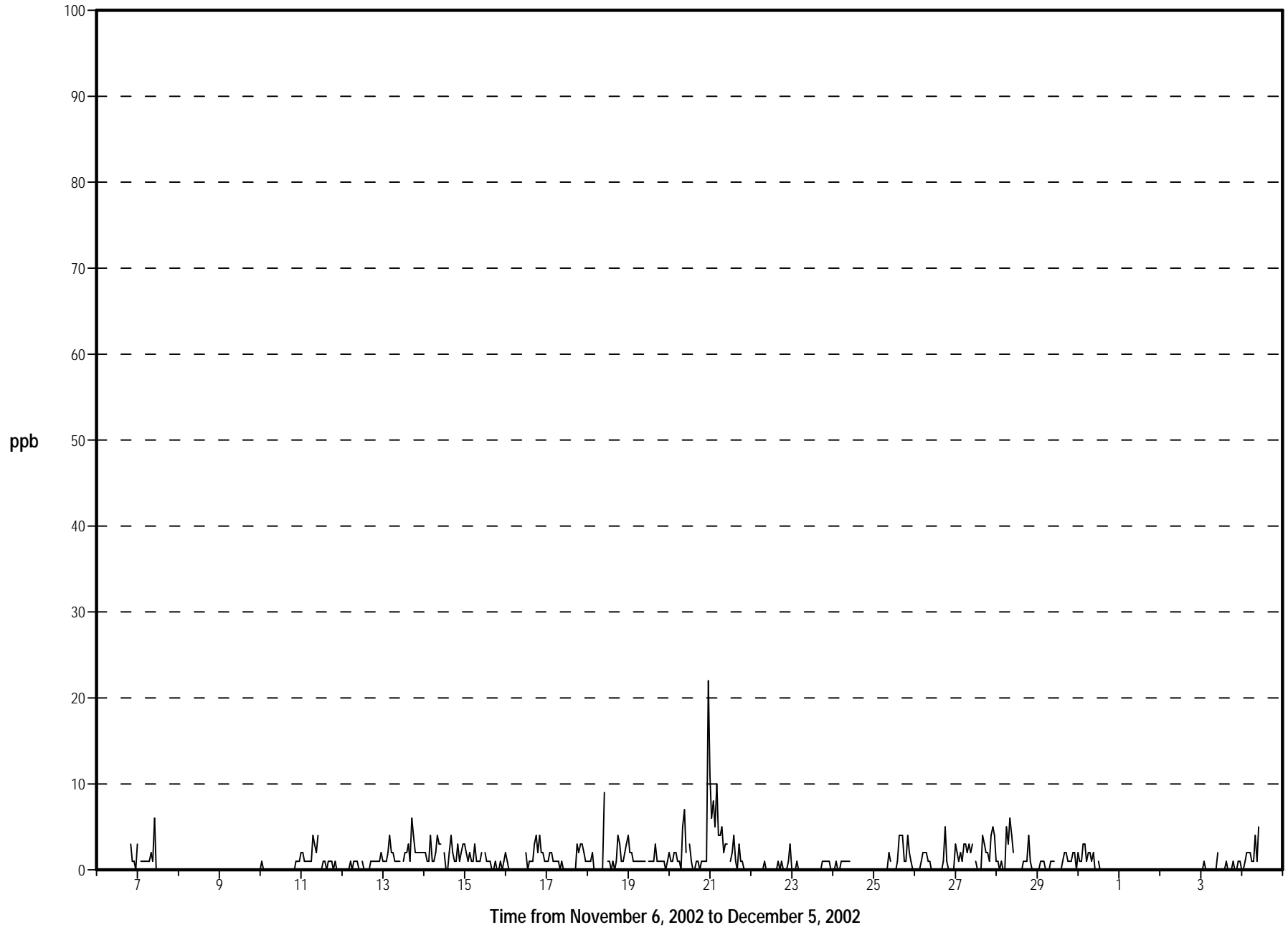


Parkland Airshed Management Zone
Summary of Hourly Averages

AMS 110 (Bentley)
 November 6, 2002 to December 5, 2002
 TRS (ppb)

Day	Hourly Period Ending At																								Daily Average
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
6	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	CAL	CAL	CAL	CAL	3	1	1	0	1.3
7	3	ZS	1	1	1	1	1	1	2	1	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0.8
8	0	ZS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0
9	0	0	0	0	0	0	0	0	0	0	0	ZS	0	0	0	0	0	0	0	0	0	0	0	0	0.0
10	0	1	0	0	0	0	0	0	0	0	0	ZS	0	0	0	0	0	0	0	0	0	1	1	1	0.2
11	2	2	1	1	1	1	1	4	3	2	4	ZS	0	1	1	0	1	1	1	0	1	0	0	0	1.2
12	0	0	0	0	0	1	0	1	1	1	0	ZS	1	0	0	0	0	1	1	1	1	1	1	2	0.6
13	1	1	1	2	4	2	2	1	1	1	1	ZS	1	2	2	3	1	6	4	2	2	2	2	2	2.0
14	2	2	1	1	4	1	1	2	4	3	3	ZS	2	0	0	2	4	2	1	1	3	1	2	3	2.0
15	3	2	1	2	1	1	3	1	1	1	2	ZS	2	1	1	1	0	0	1	0	0	1	0	1	1.1
16	2	1	0	0	0	0	0	0	0	0	0	ZS	2	0	1	1	1	3	4	2	4	2	2	1	1.1
17	1	1	2	2	1	1	1	1	0	1	0	ZS	0	0	0	0	0	0	3	2	3	3	2	1	1.1
18	1	1	1	2	0	0	0	0	0	0	9	ZS	1	1	0	1	0	1	4	3	1	1	2	3	1.4
19	4	2	2	1	1	1	1	1	1	1	1	ZS	1	1	1	1	3	1	1	1	1	1	0	1	1.3
20	2	1	1	2	2	1	1	0	5	7	2	ZS	3	1	0	0	1	1	0	1	1	1	1	22	2.4
21	11	6	8	5	10	4	4	5	2	3	3	ZS	1	2	4	1	0	3	1	1	0	0	0	0	3.2
22	0	0	0	0	0	0	0	0	1	0	0	ZS	0	0	0	0	1	0	1	0	0	0	1	3	0.3
23	0	0	0	1	0	0	0	0	0	0	0	ZS	0	0	0	0	0	0	1	1	1	1	1	0	0.3
24	0	0	1	0	0	1	1	1	1	1	1	ZS	0	0	0	0	0	0	0	0	0	0	0	0	0.3
25	0	0	0	0	0	0	0	0	0	2	1	ZS	0	0	1	4	4	4	1	1	4	2	1	0	1.1
26	0	0	0	0	1	2	2	2	1	1	0	ZS	0	0	0	0	0	1	5	1	0	0	0	0	0.7
27	3	2	1	2	1	3	3	2	3	2	3	ZS	1	0	0	0	4	3	2	2	1	4	5	4	2.2
28	1	1	0	1	0	0	5	3	6	4	2	ZS	0	0	0	0	1	1	1	4	1	0	0	0	1.3
29	0	0	1	1	1	0	0	0	1	1	1	ZS	0	0	0	1	2	2	1	1	1	2	2	0	0.8
30	2	1	1	3	3	1	2	2	1	2	0	ZS	1	0	0	PF	PF	PF	PF	PF	PF	PF	PF	PF	1.4
1	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	---
2	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	0	0	0	0	0	0	0	0	0	0.0
3	0	0	1	0	0	0	0	0	0	0	2	ZS	0	0	0	1	0	0	0	1	0	0	1	1	0.3
4	0	0	1	2	2	2	1	1	4	1	5	CAL	CAL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	1.7
	1.5	1.0	1.0	1.1	1.3	0.9	1.1	1.1	1.5	1.3	1.8	0.0	0.6	0.4	0.4	0.6	0.9	1.2	1.3	1.0	1.1	0.9	1.0	1.7	
	Diurnal Average																								
	ZS - Zero/Span Calibration						CAL - Multipoint Calibration						M - Maintenance						DAF - Data Acquisition Failure						
	AF - Analyzer Failure						UO - Unstable Operation						PF - Power Failure						NS - Not in Service						
	Maximum Value in Table: 22				First Occurrence on Day 20 Hour 24				Frequency: 1				Hours in Service: 669												
	Minimum Value in Table: 0				First Occurrence on Day 6 Hour 24				Frequency: 269				Hours of Data: 590												
	Maximum Daily Value: 3.2				First Occurrence on Day 21				Minimum Daily Value: 0				Hours of Missing Data: 79												
	Maximum Diurnal Value: 2				First Occurrence at Hour 11				Minimum Diurnal Value: 0				Hours of Calibration: 31												
	Monthly Mean: 1.1				Percentiles: P10 = 0.2 Q1 = 0.3 Median = 0.6 Q3 = 1.4 P90 = 2.8				First Occurrence on Day 8				Percent Operational Time: 92.83												
									First Occurrence at Hour 12																

Bentley TRS Hourly Averages

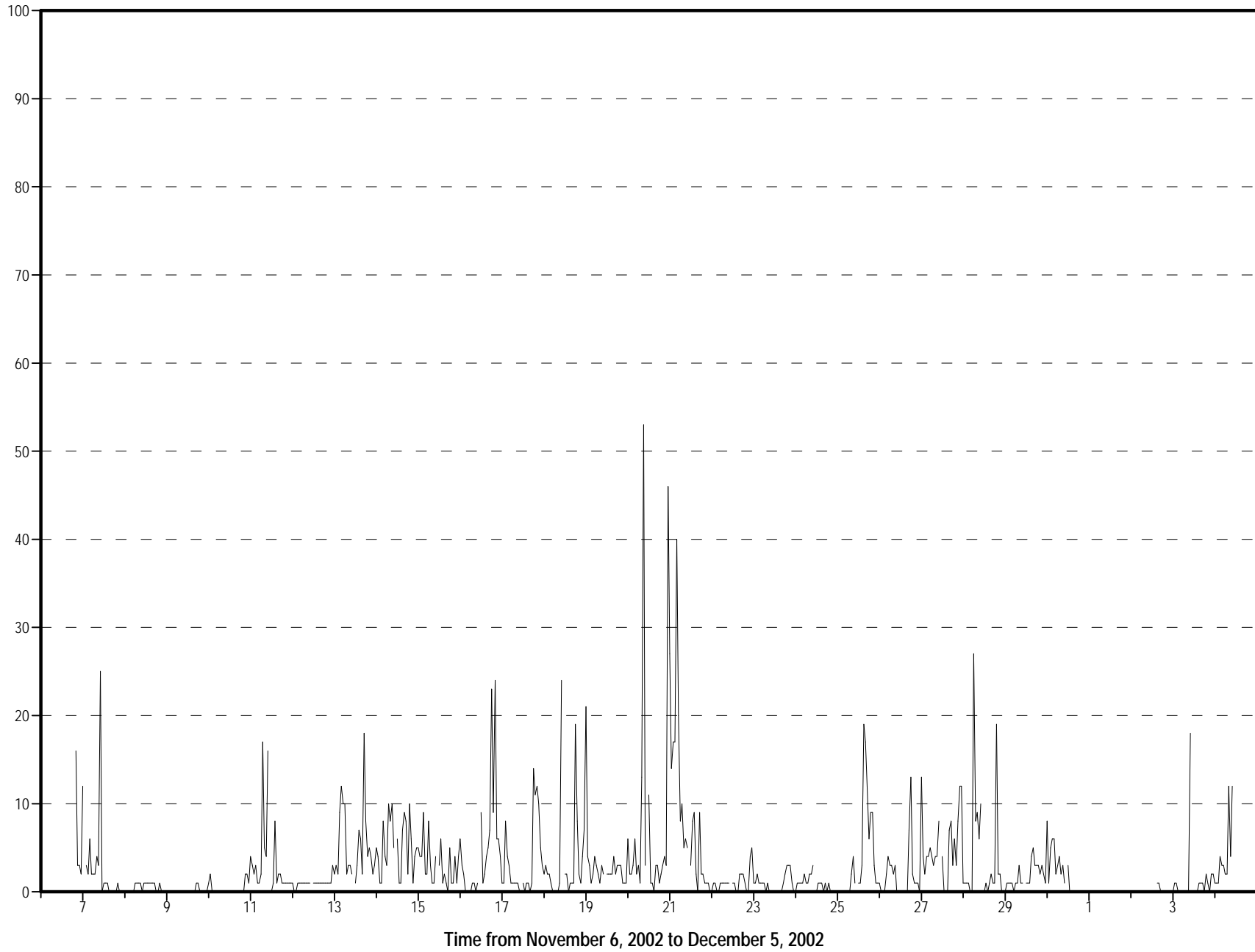


Parkland Airshed Management Zone
Summary of Maximum Value in each Hour

AMS 110 (Bentley)
 November 2002
 TRS (ppb)

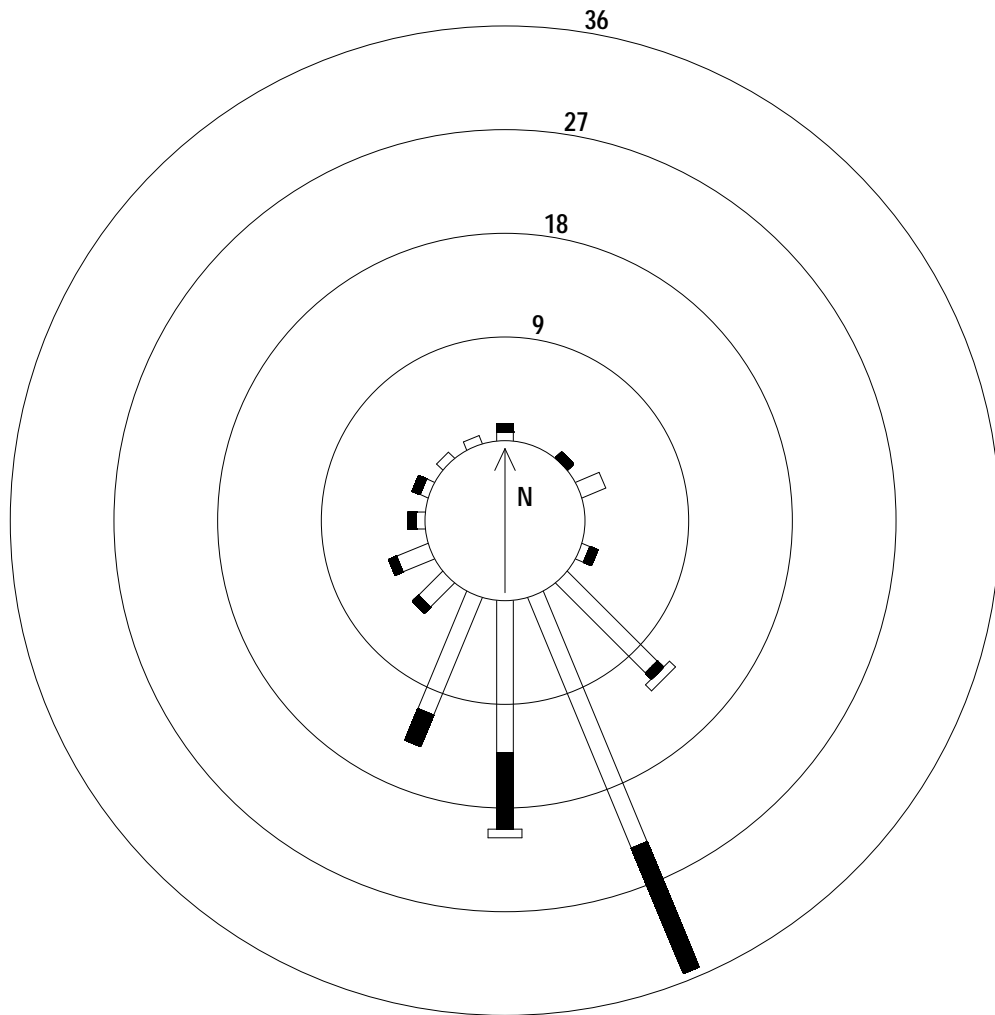
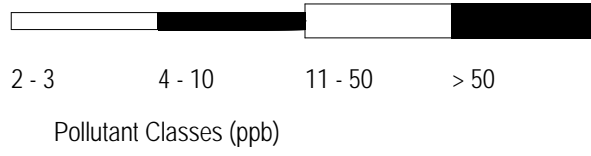
Day	Hourly Period Ending At																								Daily Average		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	16	3	3	2	6.0		
7	12	--	3	2	6	2	2	2	4	3	25	0	1	1	1	0	0	0	0	0	1	0	0	0	2.8		
8	0	--	0	0	0	0	1	1	1	1	0	1	1	1	1	1	1	1	0	0	1	0	0	0	0.5		
9	0	0	0	0	0	0	0	0	0	0	0	--	0	0	0	0	0	1	1	0	0	0	0	0	0.1		
10	1	2	0	0	0	0	0	0	0	0	0	--	0	0	0	0	0	0	0	0	0	2	2	1	0.3		
11	4	3	2	3	1	1	2	17	5	4	16	--	0	1	8	1	2	2	1	1	1	1	1	1	3.4		
12	1	0	0	1	1	1	1	1	1	1	1	--	1	1	1	1	1	1	1	1	1	1	1	3	1.0		
13	2	3	2	9	12	10	10	2	3	3	2	--	1	3	7	6	2	18	8	4	5	4	2	3	5.3		
14	5	4	1	1	8	4	3	10	8	10	5	--	6	1	1	7	9	8	2	10	6	1	4	5	5.2		
15	5	4	4	9	2	2	8	3	1	1	4	--	3	6	1	2	1	0	5	1	1	4	1	4	3.1		
16	6	3	2	0	0	0	0	1	1	0	1	--	9	1	2	4	5	7	23	9	24	6	6	4	5.0		
17	1	1	8	4	3	1	1	1	1	1	0	--	1	0	1	1	0	1	14	11	12	10	5	3	3.5		
18	2	3	2	2	1	0	0	0	0	1	24	--	2	2	0	1	1	1	19	8	2	1	4	7	3.6		
19	21	4	3	1	2	4	3	2	1	3	2	--	2	2	2	2	4	2	3	3	3	1	1	1	3.1		
20	6	2	2	3	6	2	3	1	13	53	3	--	11	1	1	0	3	3	1	2	3	4	3	46	7.5		
21	27	14	17	17	40	20	8	10	5	6	5	--	3	8	9	2	0	9	2	2	1	1	1	0	9.0		
22	0	1	1	0	0	1	1	1	1	1	1	--	1	1	0	0	2	2	2	1	0	0	4	5	1.1		
23	1	1	2	1	1	1	1	0	1	0	0	--	0	0	0	0	0	1	2	3	3	3	1	0	1.0		
24	0	1	1	1	1	2	1	1	2	2	3	--	0	1	1	1	0	1	0	1	0	0	0	0	0.9		
25	0	0	0	0	0	0	0	0	2	4	1	--	1	1	3	19	17	12	6	9	9	3	1	1	3.9		
26	1	0	0	0	2	4	3	3	2	3	0	--	0	0	0	0	0	7	13	2	1	1	1	0	1.9		
27	13	4	2	4	4	5	4	3	4	4	8	--	4	0	0	0	7	8	3	6	3	8	12	12	5.1		
28	1	1	1	1	0	0	27	8	9	6	10	--	0	1	0	1	2	1	1	19	2	2	0	0	4.0		
29	0	1	1	1	1	0	1	1	3	1	1	--	1	1	1	4	5	3	3	3	2	3	2	1	1.7		
30	8	1	5	6	6	2	3	4	2	3	1	--	3	0	0	--	--	--	--	--	--	--	--	--	3.1		
1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	---		
2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	1	0	0	0	0	0	0	0	0.2		
3	0	1	1	0	0	0	0	0	0	0	18	--	0	0	0	1	1	1	0	2	1	0	2	2	1.3		
4	1	1	1	4	3	3	2	2	12	4	12	--	--	--	--	--	--	--	--	--	--	--	--	--	4.1		
	4.5	2.3	2.3	2.7	3.8	2.5	3.3	2.8	3.2	4.4	5.5		0.5	2.0	1.3	1.6	2.2	2.6	3.6	4.4	3.9	3.8	2.3	2.2	3.9		
Diurnal Average																											
ZS - Zero/Span Calibration							CAL - Multipoint Calibration							M - Maintenance							DAF - Data Acquisition Failure						
AF - Analyzer Failure							UO - Unstable Operation							SP - Spurious/Invalid Data							NS - Not in Service						
Maximum Value in Table: 53							First Occurrence on Day 20 Hour 10							Frequency: 1													
Minimum Value in Table: 0							First Occurrence on Day 7 Hour 12							Frequency: 154													
Maximum Daily Value: 9							First Occurrence on Day 21							Minimum Daily Value: 0							First Occurrence on Day 9						
Maximum Diurnal Value: 6							First Occurrence at Hour 11							Minimum Diurnal Value: 1							First Occurrence at Hour 12						
Monthly Mean: 3.1							Percentiles: P10 = 0.3 Q1 = 0.5 Median = 1.2 Q3 = 3.5 P90 = 8.2																				

Bentley TRS Maximum Values



Parkland Airshed Management Zone

Bentley - TRS - November 6, 2002 21:00 to December 4, 2002 11:00

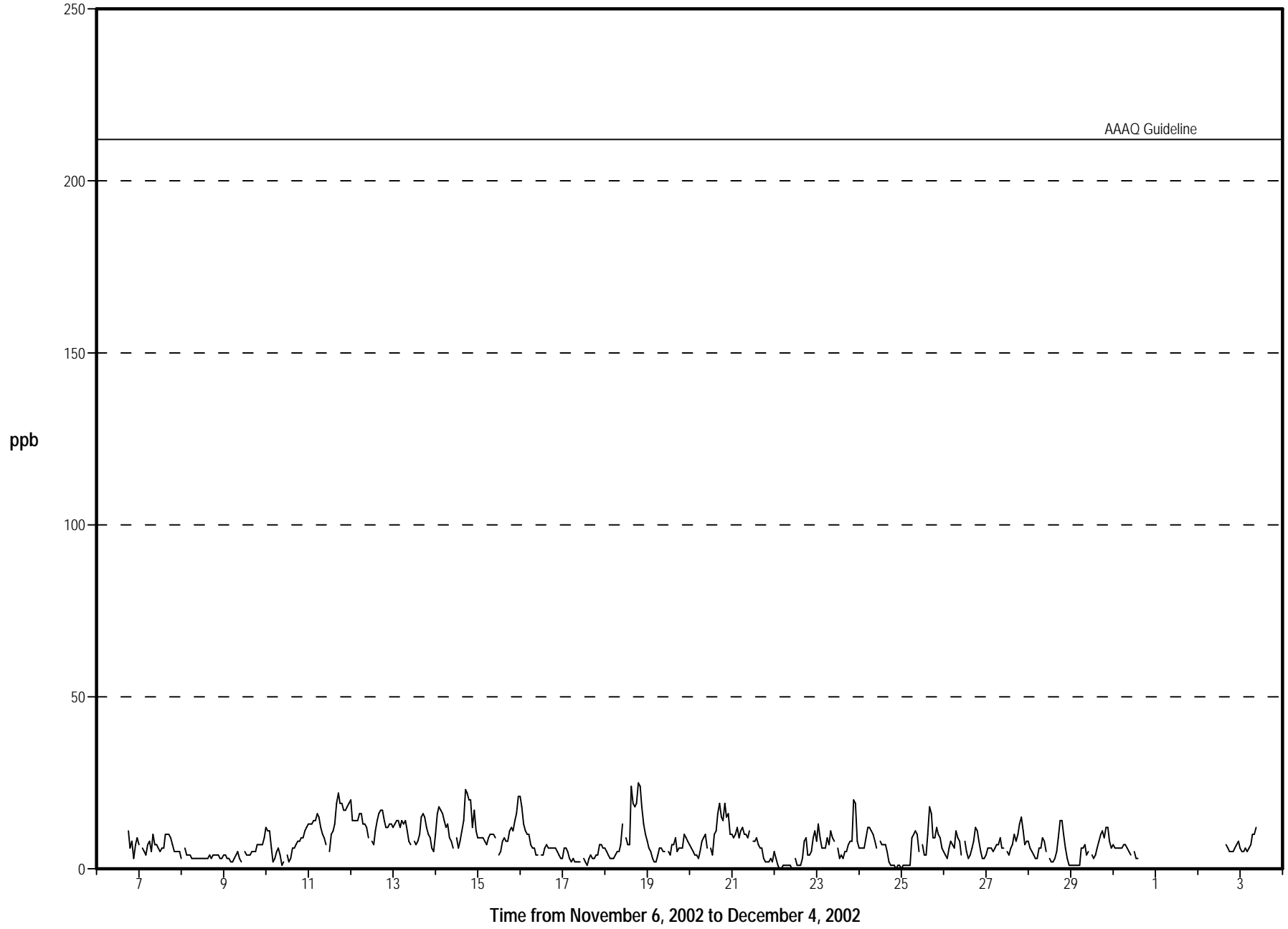


Parkland Airshed Management Zone
Summary of Hourly Averages

AMS 110 (Bentley)
 November 6, 2002 to December 4, 2002
 NO2 (ppb)

Day	Hourly Period Ending At																								Daily Average	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
6	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	CAL	CAL	CAL	CAL	CAL	11	6	8	3	7	9	7.3	
7	7	ZS	6	5	4	7	8	5	10	7	7	6	5	6	6	10	10	10	9	7	5	5	5	5	6.7	
8	3	ZS	6	4	4	4	3	3	3	3	3	3	3	3	3	3	4	3	4	4	4	4	3	3	3.5	
9	4	4	3	3	2	2	3	4	5	3	2	ZS	5	4	4	4	5	5	5	7	7	7	7	9	4.5	
10	12	11	11	6	2	3	5	6	4	1	2	ZS	4	2	3	6	6	7	8	8	9	9	11	12	6.4	
11	13	13	13	14	14	16	15	12	10	9	7	ZS	5	10	11	13	19	22	19	19	17	17	18	19	14.1	
12	20	14	14	14	14	16	16	13	13	12	9	ZS	8	7	11	14	16	17	17	14	12	12	13	13	13.4	
13	12	13	14	14	12	14	13	14	11	8	7	ZS	8	7	8	10	15	16	15	12	10	9	6	5	11.0	
14	10	16	18	17	16	14	12	13	9	8	6	ZS	9	6	8	11	14	23	22	20	20	12	17	11	13.6	
15	9	9	9	9	8	7	9	10	10	10	9	ZS	4	5	8	9	8	8	11	12	11	14	16	21	9.8	
16	21	18	13	11	10	10	7	6	6	4	4	ZS	4	4	6	7	6	6	6	6	6	5	4	3	7.5	
17	3	6	6	5	3	2	3	2	2	2	2	ZS	3	2	1	3	4	3	3	4	4	7	7	6	3.6	
18	6	5	4	3	3	3	4	5	5	7	13	ZS	9	7	7	24	19	18	19	25	24	18	13	10	10.9	
19	8	6	5	3	2	2	4	6	6	5	5	ZS	5	4	7	7	9	5	6	6	6	10	9	8	5.8	
20	7	6	5	4	4	3	5	8	9	10	6	ZS	6	4	10	11	16	19	15	14	19	15	16	10	9.7	
21	10	9	10	12	9	11	12	10	10	9	11	ZS	8	8	9	7	6	6	3	2	2	2	3	2	7.4	
22	5	3	1	0	0	1	1	1	1	1	0	ZS	3	1	1	1	3	8	9	4	4	5	9	11	3.2	
23	8	13	9	6	6	6	9	7	11	9	8	ZS	6	3	4	3	5	5	7	8	8	20	19	8	8.2	
24	6	6	6	6	9	12	12	11	10	8	6	ZS	8	7	7	7	5	2	1	1	1	0	1	1	5.8	
25	0	1	1	1	1	1	9	10	11	10	5	ZS	7	4	4	10	18	16	9	9	12	10	9	6	7.1	
26	5	4	3	6	8	7	6	11	9	8	4	ZS	8	5	3	4	6	8	12	11	8	5	3	3	6.4	
27	4	6	6	6	5	6	7	7	9	6	6	ZS	5	4	6	7	10	8	10	13	15	11	7	8	7.5	
28	8	6	5	4	3	3	6	6	9	8	5	ZS	3	2	2	3	5	9	14	14	10	6	3	1	5.9	
29	1	1	1	1	1	1	6	6	7	4	5	ZS	4	3	4	6	8	10	11	9	12	12	8	6	5.5	
30	7	6	6	6	6	6	7	7	6	5	4	ZS	5	3	3	PF	PF	PF	PF	PF	PF	PF	PF	PF	5.5	
1	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	---	
2	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	7	6	5	5	5	6	7	6.1
3	6	5	5	6	5	6	7	10	10	12	CAL	CAL	CAL	CAL	CAL	NS	NS	NS	NS	NS	NS	NS	NS	NS	7.2	
	7.8	7.9	7.2	6.6	6.0	6.5	7.6	7.7	7.8	6.8	5.7	4.5	5.6	4.6	5.7	7.8	9.3	10.0	10.0	9.6	9.6	9.0	8.8	7.9		
Diurnal Average																										
ZS - Zero/Span Calibration CAL - Multipoint Calibration M - Maintenance DAF - Data Acquisition Failure AF - Analyzer Failure UO - Unstable Operation PF - Power Failure NS - Not in Service																										
Maximum Value in Table: 25 First Occurrence on Day 18 Hour 20 Frequency: 1 Hours in Service: 650 Minimum Value in Table: 0 First Occurrence on Day 22 Hour 4 Frequency: 5 Hours of Data: 567 Maximum Daily Value: 14.1 First Occurrence on Day 11 Minimum Daily Value: 3 First Occurrence on Day 22 Hours of Missing Data: 83 Maximum Diurnal Value: 10 First Occurrence at Hour 19 Minimum Diurnal Value: 5 First Occurrence at Hour 12 Hours of Calibration: 34 Monthly Mean: 7.6 Percentiles: P10 = 2.5 Q1 = 4.2 Median = 6.6 Q3 = 10.1 P90 = 14.1 Percent Operational Time: 92.46																										

Bentley NO2 Hourly Averages

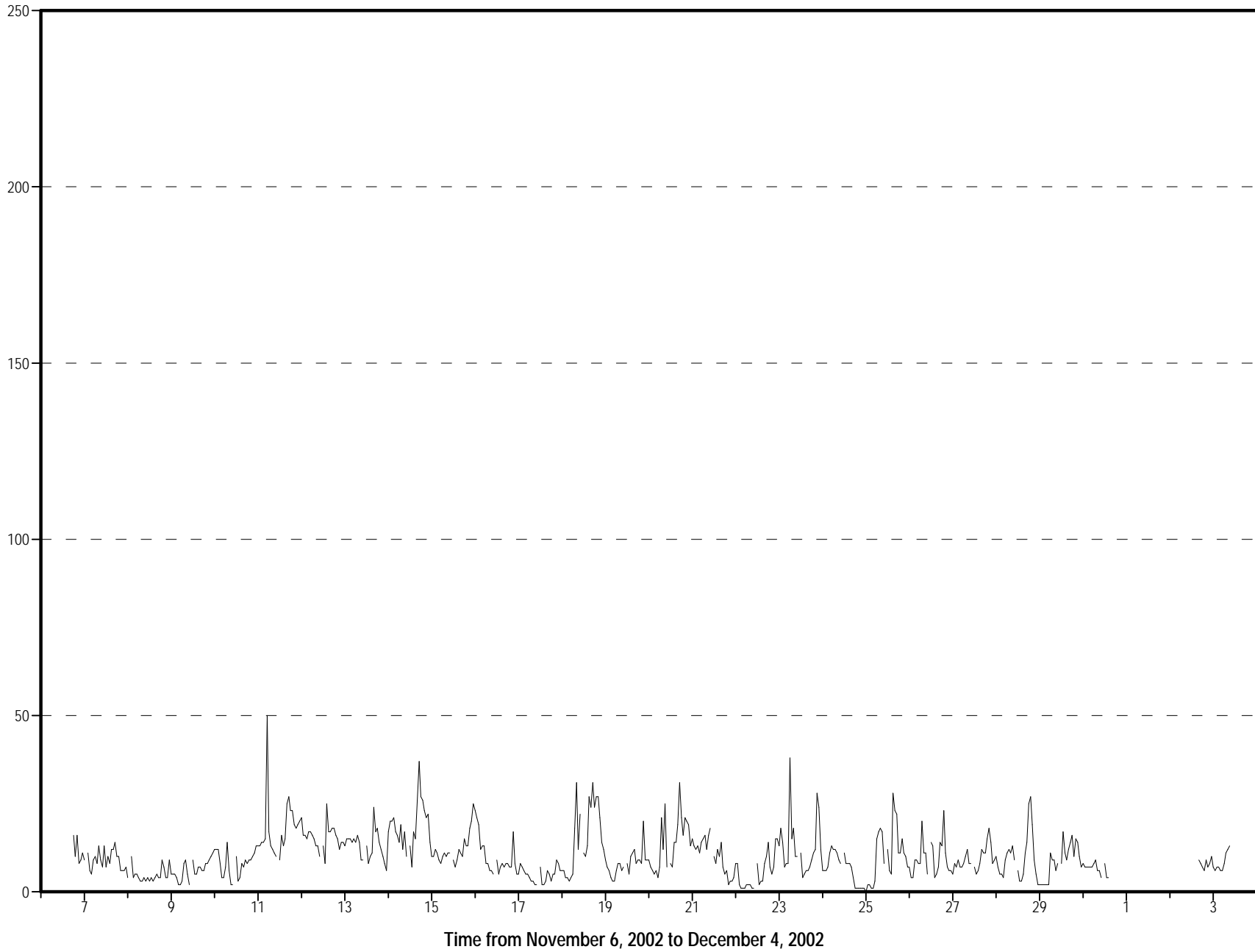


Parkland Airshed Management Zone
Summary of Maximum Value in each Hour

AMS 110 (Bentley)
 November 2002
 NO2 (ppb)

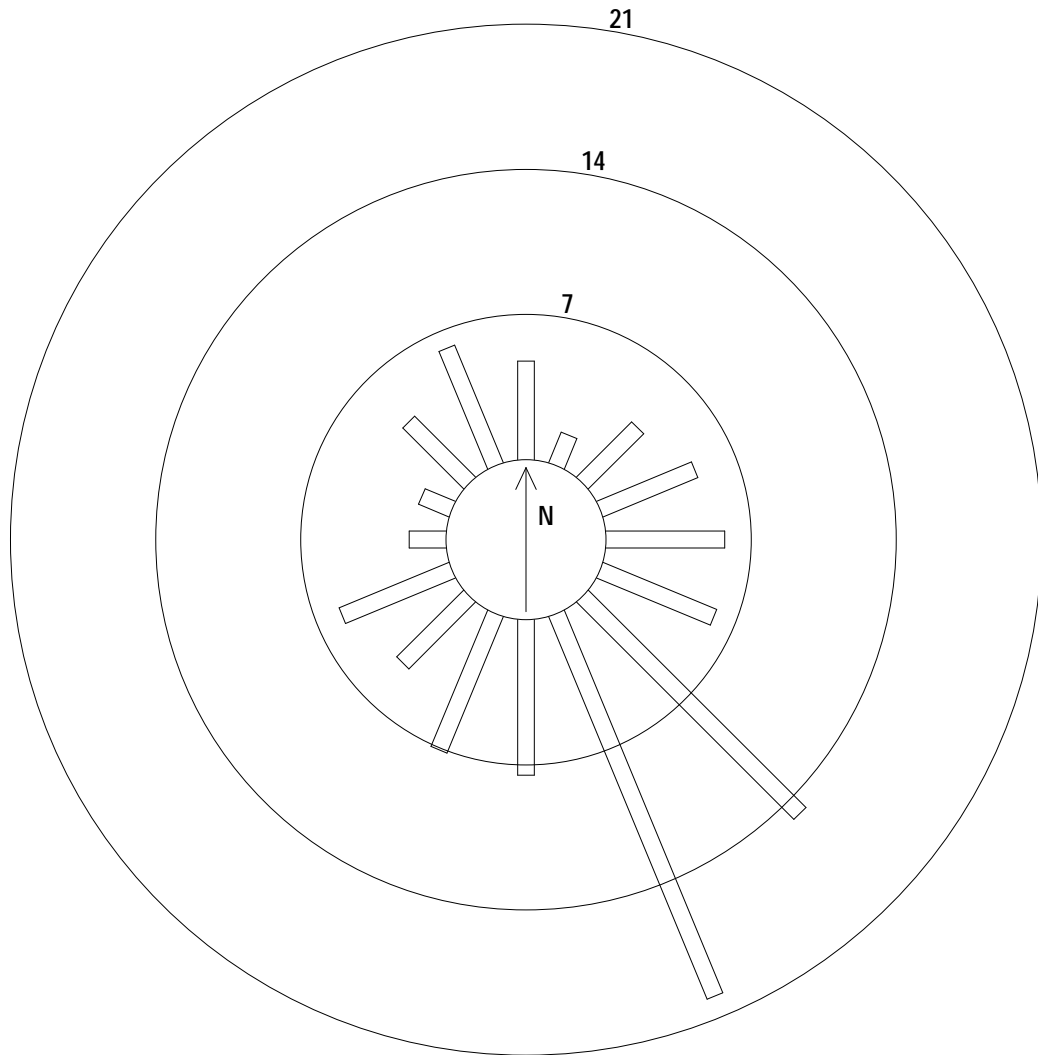
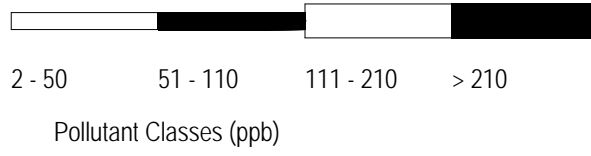
Day	Hourly Period Ending At																								Daily Average		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	16	10	16	8	9	11	11.7		
7	9	--	11	6	5	9	10	8	13	9	7	13	7	10	8	12	12	14	10	10	6	6	6	7	9.0		
8	4	--	10	4	5	5	4	3	3	4	3	4	3	4	3	4	5	4	4	9	7	4	4	9	4.7		
9	5	5	5	4	2	2	3	8	9	5	2	--	9	5	5	7	7	6	6	8	8	9	10	11	6.1		
10	12	12	12	8	4	4	7	14	6	2	2	--	10	3	4	8	7	9	8	9	9	10	11	13	8.0		
11	13	13	14	14	15	50	17	13	12	11	10	--	9	16	13	15	25	27	23	23	19	18	19	20	17.8		
12	21	16	16	15	17	17	16	15	13	13	10	--	13	8	25	17	17	18	18	16	15	12	14	14	15.5		
13	13	15	15	15	14	15	14	16	14	9	9	--	13	8	10	11	24	17	18	14	12	10	8	6	13.0		
14	17	20	20	21	17	16	14	19	12	17	10	--	13	7	17	15	26	37	27	26	23	21	22	14	18.7		
15	10	10	12	11	9	8	10	11	10	11	11	--	9	7	9	12	11	10	15	13	13	18	20	25	12.0		
16	23	21	19	12	13	13	8	8	6	6	5	--	9	5	7	8	7	8	8	7	7	17	8	5	10.0		
17	5	8	7	6	5	5	4	3	3	2	2	--	7	2	2	3	6	5	3	5	5	9	8	6	4.8		
18	6	6	4	4	3	4	5	18	31	12	22	--	11	10	13	27	24	31	24	27	27	21	14	12	15.5		
19	9	7	6	4	3	3	6	8	8	6	7	--	8	5	10	11	12	8	9	9	8	20	9	9	8.0		
20	9	7	6	5	6	4	7	21	12	25	7	--	8	7	14	14	19	31	21	16	21	20	19	13	13.6		
21	15	13	12	13	11	14	15	16	12	16	18	--	10	8	12	10	14	7	5	6	2	3	3	4	10.4		
22	8	8	2	1	1	1	2	2	2	1	1	--	8	2	3	3	8	10	14	7	5	7	15	15	5.5		
23	13	18	14	7	8	8	38	15	18	10	10	--	11	4	5	6	6	7	9	11	12	28	24	12	12.8		
24	6	6	6	7	11	13	12	12	11	9	8	--	11	8	8	8	7	4	1	1	1	1	1	1	6.7		
25	0	2	2	1	1	3	15	17	18	17	8	--	12	6	5	28	23	22	11	11	15	11	10	7	10.7		
26	7	4	4	9	9	8	8	20	11	11	5	--	14	13	4	5	7	14	13	23	11	7	6	6	9.5		
27	5	8	7	9	7	7	8	10	12	8	8	--	7	5	6	8	12	11	11	15	18	14	8	9	9.3		
28	10	7	5	5	4	9	11	12	11	13	9	--	6	3	3	5	11	14	25	27	19	9	5	2	9.8		
29	2	2	2	2	2	2	11	9	9	6	8	--	8	17	11	9	12	14	16	10	15	14	10	7	8.6		
30	8	7	7	7	7	7	8	9	6	6	4	--	8	4	4	--	--	--	--	--	--	--	--	--	6.6		
1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	---		
2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	9	8	7	6	9	7	8	10	8.0	
3	7	6	7	7	6	6	8	11	12	13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	8.3	
	9.5	9.6	9.0	7.9	7.4	9.3	10.4	11.9	11.0	9.7	7.8	8.5	9.3	7.0	8.4	10.7	13.0	14.0	12.9	12.8	12.1	12.2	10.8	9.9			
Diurnal Average																											
ZS - Zero/Span Calibration							CAL - Multipoint Calibration							M - Maintenance							DAF - Data Acquisition Failure						
AF - Analyzer Failure							UO - Unstable Operation							SP - Spurious/Invalid Data							NS - Not in Service						
Maximum Value in Table: 50				First Occurrence on Day 11 Hour 6				Frequency: 1																			
Minimum Value in Table: 0				First Occurrence on Day 25 Hour 1				Frequency: 1																			
Maximum Daily Value: 19				First Occurrence on Day 14				Minimum Daily Value: 5				First Occurrence on Day 8															
Maximum Diurnal Value: 14				First Occurrence at Hour 18				Minimum Diurnal Value: 7				First Occurrence at Hour 14															
Monthly Mean: 10.3 Percentiles: P10 = 3.4 Q1 = 6.0 Median = 8.8 Q3 = 13.3 P90 = 18.4																											

Bentley NO2 Maximum Values



Parkland Airshed Management Zone

Bentley - NO2 - November 6, 2002 19:00 to December 3, 2002 10:00

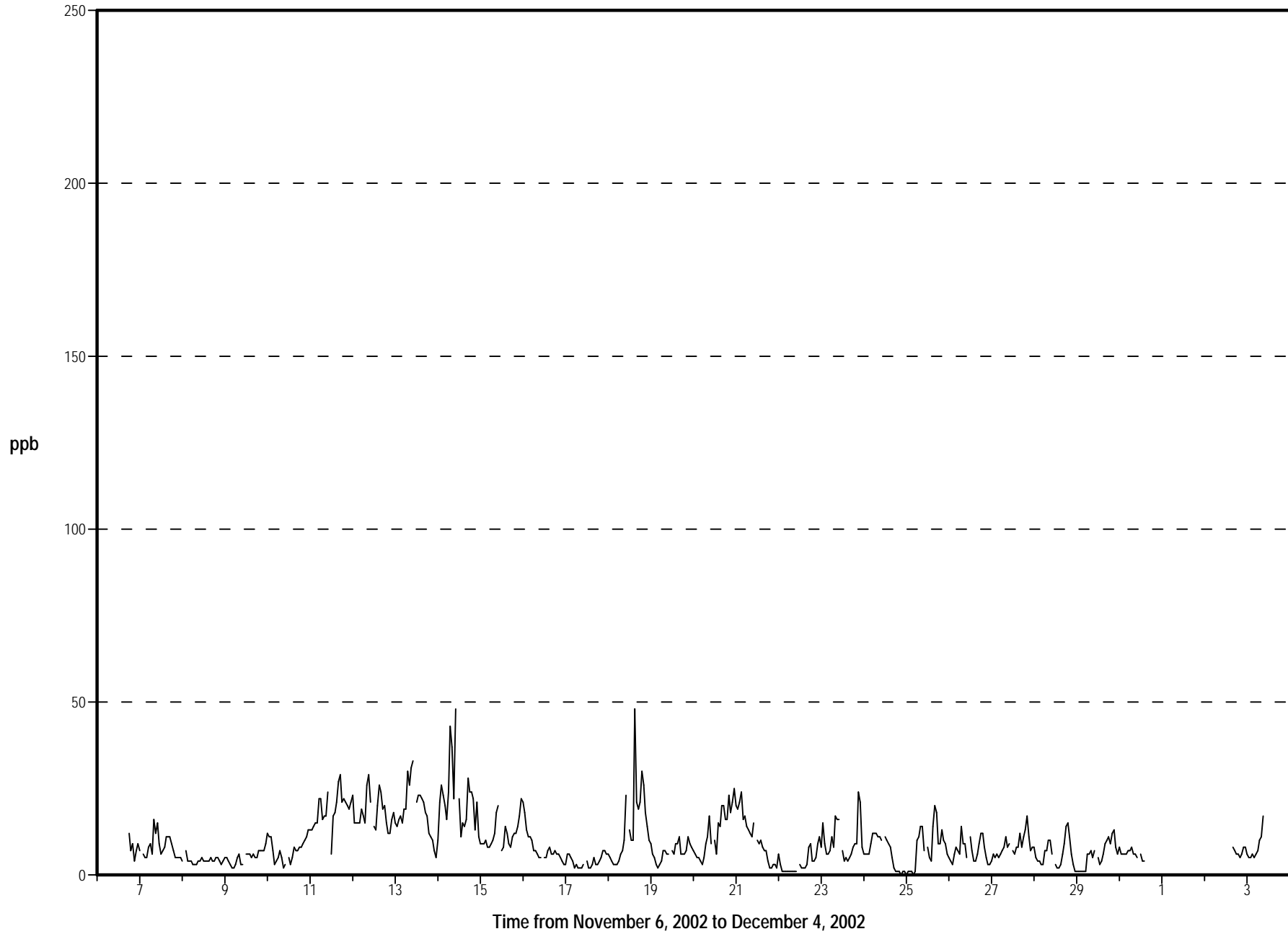


**Parkland Airshed Management Zone
Summary of Hourly Averages**

AMS 110 (Bentley)
November 6, 2002 to December 4, 2002
NOX (ppb)

Day	Hourly Period Ending At																								Daily Average	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
6	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	CAL	CAL	CAL	CAL	CAL	12	7	9	4	7	9	8.0	
7	7	ZS	6	5	5	8	9	6	16	12	15	9	6	7	8	11	11	11	9	7	5	5	5	5	8.2	
8	4	ZS	7	4	4	4	3	3	3	4	4	5	4	4	4	5	4	4	5	5	4	3	4	4.1		
9	5	5	4	3	2	2	3	5	6	3	3	ZS	6	6	6	5	6	5	5	7	7	7	9	5.1		
10	12	11	11	7	3	4	5	7	5	2	3	ZS	5	3	5	8	7	7	8	8	9	10	11	13	7.1	
11	13	13	14	15	15	22	22	16	17	17	24	ZS	6	17	18	21	27	29	21	22	21	20	19	21	18.7	
12	23	15	15	15	15	19	17	15	26	29	21	ZS	14	13	20	26	24	19	20	15	12	12	16	18	18.2	
13	15	14	16	17	15	19	19	30	26	31	33	ZS	21	23	23	22	21	18	17	12	11	10	7	5	18.5	
14	10	21	26	23	20	16	24	43	37	22	48	ZS	22	11	15	14	16	28	24	24	22	13	21	11	22.2	
15	9	9	9	10	8	8	9	10	12	18	20	ZS	7	8	14	12	9	8	11	12	12	14	17	22	11.7	
16	21	18	13	11	11	10	7	7	6	5	5	ZS	5	5	7	8	6	6	7	6	6	5	4	3	7.9	
17	3	6	6	5	4	2	3	2	2	2	3	ZS	4	2	2	3	5	3	3	4	5	7	7	6	3.9	
18	6	5	4	3	3	3	4	6	7	10	23	ZS	13	10	10	48	21	19	21	30	26	18	14	10	13.7	
19	9	6	5	3	2	3	4	7	7	6	6	ZS	7	6	9	9	11	6	6	6	7	11	9	8	6.7	
20	7	6	5	5	4	3	5	9	11	17	9	ZS	10	6	15	14	20	20	16	16	23	18	21	25	12.4	
21	20	19	21	24	16	17	14	13	12	11	15	ZS	10	9	10	8	7	7	4	2	2	3	3	2	10.8	
22	6	3	1	1	1	1	1	1	1	1	1	ZS	3	2	2	2	3	8	9	4	4	5	9	11	3.5	
23	8	15	9	6	6	7	11	8	17	16	16	ZS	7	4	5	4	5	6	8	9	9	24	21	8	10.0	
24	6	6	6	6	9	12	12	12	11	11	10	ZS	11	10	9	8	5	2	1	1	1	0	1	1	6.6	
25	0	1	1	1	0	1	10	11	14	14	7	ZS	8	5	4	14	20	18	9	9	13	10	9	6	8.0	
26	5	4	3	6	8	7	6	14	9	9	5	ZS	11	7	4	4	6	9	12	12	8	5	3	3	7.0	
27	4	6	5	6	5	6	7	8	11	8	9	ZS	7	6	8	8	12	8	11	13	17	11	7	8	8.3	
28	8	5	4	4	3	3	7	7	10	10	6	ZS	3	2	2	3	6	9	14	15	11	6	3	1	6.2	
29	1	1	1	1	1	1	6	6	7	5	7	ZS	5	3	4	6	9	10	11	9	12	13	8	6	5.8	
30	8	6	6	6	6	7	7	8	6	6	5	ZS	6	4	4	PF	PF	PF	PF	PF	PF	PF	PF	PF	6.1	
1	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	---	
2	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	8	7	6	6	5	6	8	6.8
3	6	5	5	6	5	6	7	10	11	17	CAL	CAL	CAL	CAL	CAL	NS	NS	NS	NS	NS	NS	NS	NS	NS	7.8	
	8.6	8.7	8.1	7.7	6.8	7.6	8.9	10.6	11.6	11.4	12.4	7.0	8.4	7.2	8.7	11.4	11.3	11.1	10.8	10.4	10.5	9.6	9.6	8.9		
Diurnal Average																										
ZS - Zero/Span Calibration						CAL - Multipoint Calibration						M - Maintenance						DAF - Data Acquisition Failure								
AF - Analyzer Failure						UO - Unstable Operation						PF - Power Failure						NS - Not in Service								
Maximum Value in Table: 48				First Occurrence on Day 14 Hour 11				Frequency: 2				Hours in Service: 650														
Minimum Value in Table: 0				First Occurrence on Day 24 Hour 22				Frequency: 3				Hours of Data: 567														
Maximum Daily Value: 22.2				First Occurrence on Day 14				Minimum Daily Value: 3				First Occurrence on Day 22														
Maximum Diurnal Value: 12				First Occurrence at Hour 11				Minimum Diurnal Value: 7				First Occurrence at Hour 5														
Monthly Mean: 9.6				Percentiles: P10 = 2.8 Q1 = 4.9 Median = 7.4 Q3 = 12.5 P90 = 20.4				Hours of Missing Data: 83																		
												Hours of Calibration: 34														
												Percent Operational Time: 92.46														

Bentley NOX Hourly Averages

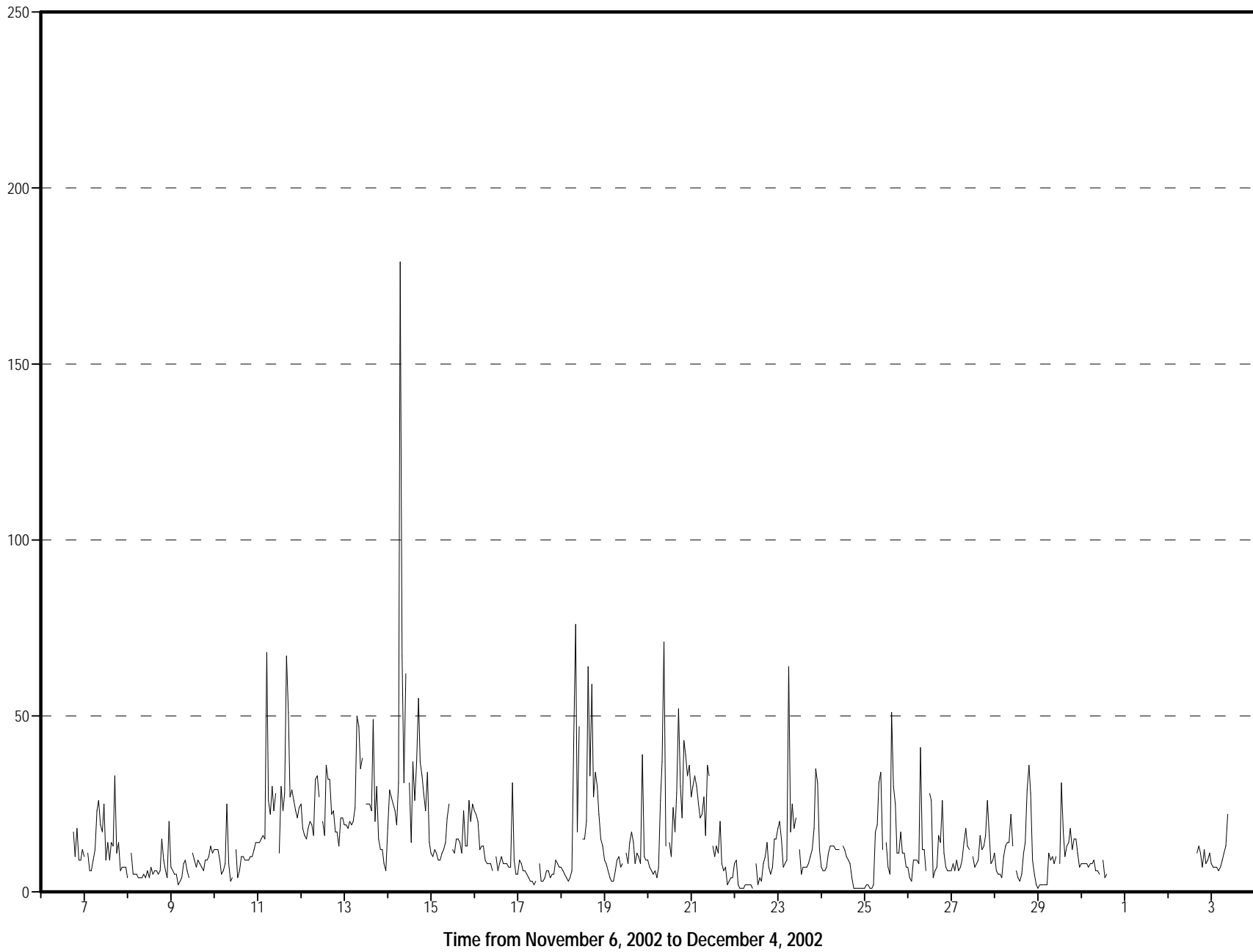


Parkland Airshed Management Zone
Summary of Maximum Value in each Hour

AMS 110 (Bentley)
 November 2002
 NOX (ppb)

Day	Hourly Period Ending At																								Daily Average		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	17	10	18	9	9	12	12.5		
7	10	--	11	6	6	9	12	23	26	19	17	25	9	14	9	14	13	33	11	14	6	7	7	7	13.4		
8	4	--	11	5	5	5	4	4	4	5	4	6	4	7	5	6	6	5	6	15	9	6	4	20	6.5		
9	7	6	5	5	2	3	4	8	9	6	4	--	11	9	7	9	8	7	6	9	9	10	13	11	7.3		
10	12	12	12	9	5	6	8	25	8	3	4	--	12	4	6	10	10	9	9	9	10	10	12	14	9.5		
11	14	14	15	16	15	68	26	22	30	23	28	--	11	30	23	28	67	51	27	29	26	23	21	24	27.4		
12	25	18	16	15	18	20	19	16	32	33	27	--	20	16	36	32	32	22	23	17	17	13	21	21	22.1		
13	19	19	18	20	19	20	24	50	47	35	38	--	25	25	25	23	49	20	30	15	12	12	8	6	24.3		
14	18	29	27	25	23	19	31	179	67	31	62	--	31	14	37	26	37	55	37	33	28	23	34	14	38.3		
15	11	10	12	11	9	9	11	12	14	21	25	--	12	11	15	15	14	11	23	13	13	26	20	25	14.9		
16	23	22	20	12	13	13	9	8	8	8	6	--	10	6	8	10	8	8	8	7	7	31	9	5	11.3		
17	5	9	8	6	6	5	4	3	3	2	3	--	8	3	3	4	6	6	4	5	5	9	8	7	5.3		
18	7	6	5	4	3	4	6	44	76	17	47	--	15	15	20	64	33	59	27	34	30	22	15	13	24.6		
19	9	8	6	4	3	3	6	9	10	7	8	--	11	8	14	17	14	8	11	10	8	39	10	9	10.1		
20	9	7	6	5	6	4	7	26	37	71	13	--	14	10	24	17	28	52	30	21	43	39	33	36	23.4		
21	27	30	33	30	25	21	22	27	16	36	33	--	13	10	13	11	20	8	6	7	2	3	4	4	17.4		
22	8	9	2	1	1	1	2	2	2	2	1	--	8	2	4	3	8	10	14	7	5	7	15	15	5.6		
23	18	20	15	7	8	9	64	17	25	18	21	--	12	5	7	7	7	8	10	12	18	35	31	12	16.8		
24	7	6	6	7	11	13	13	13	12	12	12	--	13	12	10	9	8	4	1	1	1	1	1	1	7.6		
25	1	2	2	1	1	2	17	19	31	34	12	--	14	7	5	51	30	25	11	11	17	11	11	7	14.0		
26	7	4	3	9	9	9	8	41	12	12	6	--	28	26	4	6	7	16	14	26	11	7	6	6	12.0		
27	6	8	6	9	6	7	9	14	18	13	12	--	10	7	8	9	16	12	13	16	26	16	8	9	11.2		
28	11	6	5	5	4	10	13	14	14	22	13	--	6	4	3	5	11	14	29	36	28	9	5	2	11.7		
29	1	2	2	2	2	2	11	9	10	8	10	--	8	31	17	10	13	14	18	12	15	15	11	7	10.0		
30	8	8	8	8	7	8	8	9	6	6	5	--	9	4	5	--	--	--	--	--	--	--	--	--	7.1		
1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	---	
2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	11	13	11	7	12	8	9	11	10.3	
3	8	7	7	7	6	7	9	11	13	22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	9.7	
	11.0	11.4	10.4	9.2	8.5	11.1	13.9	24.2	21.2	18.6	17.1	15.5	13.1	11.7	12.8	16.8	19.0	19.6	15.8	15.0	15.0	15.6	13.0	11.9			
Diurnal Average																											
ZS - Zero/Span Calibration							CAL - Multipoint Calibration							M - Maintenance							DAF - Data Acquisition Failure						
AF - Analyzer Failure							UO - Unstable Operation							SP - Spurious/Invalid Data							NS - Not in Service						
Maximum Value in Table: 179				First Occurrence on Day 14 Hour 8				Frequency: 1																			
Minimum Value in Table: 1				First Occurrence on Day 22 Hour 4				Frequency: 14																			
Maximum Daily Value: 38				First Occurrence on Day 14				Minimum Daily Value: 5				First Occurrence on Day 17															
Maximum Diurnal Value: 24				First Occurrence at Hour 8				Minimum Diurnal Value: 9				First Occurrence at Hour 5															
Monthly Mean: 14.6 Percentiles: P10 = 4.0 Q1 = 6.6 Median = 10.6 Q3 = 18.8 P90 = 30.1																											

Bentley NOX Maximum Values

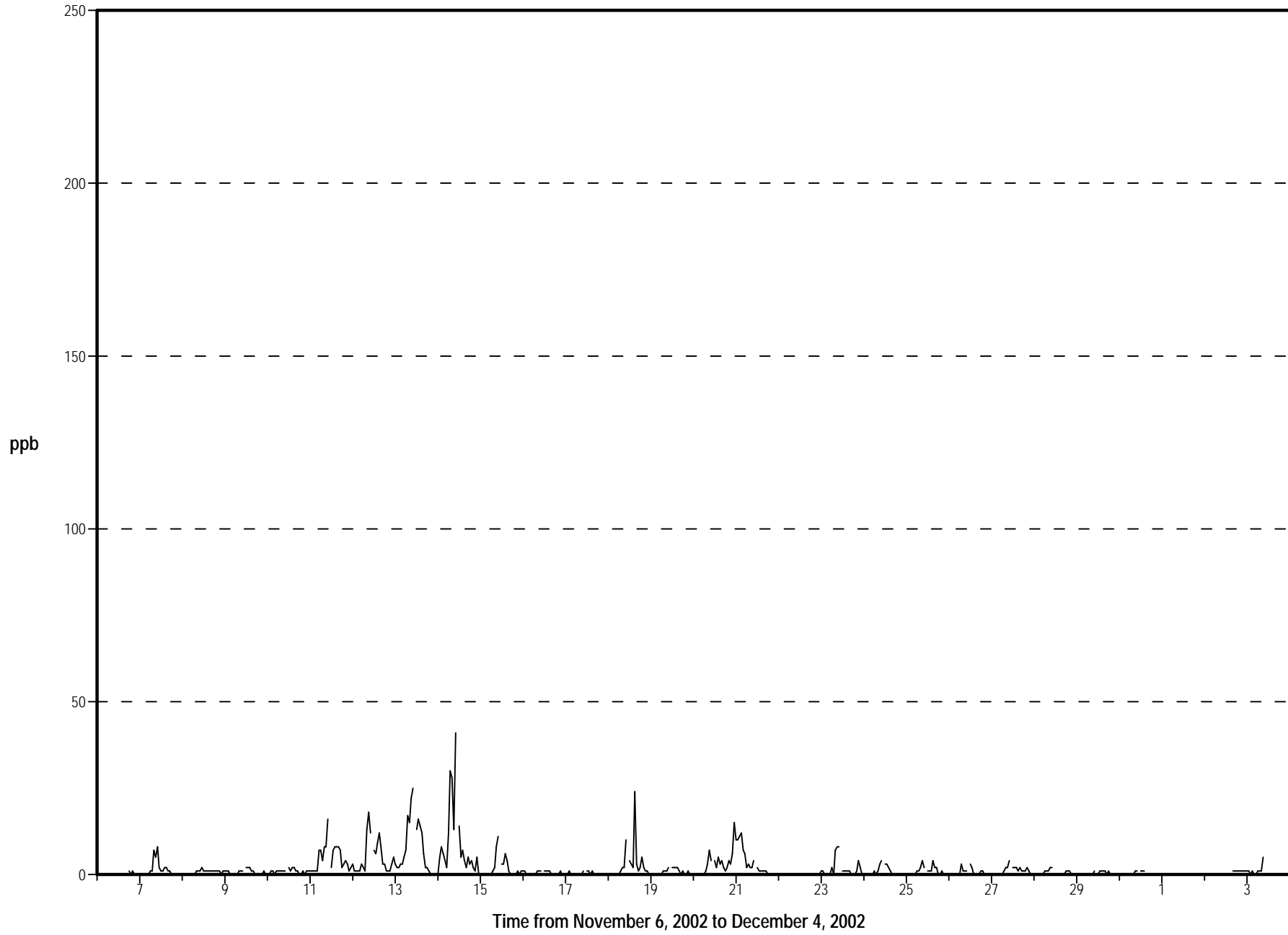


Parkland Airshed Management Zone
Summary of Hourly Averages

AMS 110 (Bentley)
 November 6, 2002 to December 4, 2002
 NO (ppb)

Day	Hourly Period Ending At																								Daily Average
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
6	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	CAL	CAL	CAL	CAL	CAL	1	0	1	0	0	0	0.3
7	0	ZS	0	0	0	0	1	1	7	5	8	2	1	1	2	2	1	1	0	0	0	0	0	0	1.4
8	0	ZS	0	0	0	0	0	0	1	1	1	2	1	1	1	1	1	1	1	1	1	1	0	1	0.7
9	1	1	1	0	0	0	0	0	1	1	1	1	ZS	2	2	2	1	1	0	0	0	0	1	0	0.7
10	0	0	1	1	0	1	1	1	1	1	1	ZS	2	1	2	2	1	1	0	0	1	0	1	1	0.9
11	1	1	1	1	1	7	7	4	8	8	16	ZS	2	7	8	8	8	7	2	3	4	3	1	2	4.8
12	3	1	1	1	1	3	2	1	13	18	12	ZS	7	6	9	12	8	3	3	1	1	1	3	5	5.0
13	3	2	2	3	3	5	7	17	15	22	25	ZS	13	16	14	12	6	2	2	1	0	0	0	0	7.4
14	0	5	8	6	4	2	12	30	28	13	41	ZS	14	5	7	4	2	5	3	4	2	1	5	0	8.7
15	0	0	0	0	0	0	0	1	2	8	11	ZS	3	3	6	4	1	0	0	0	0	1	0	1	1.8
16	1	1	0	0	0	0	0	0	1	1	1	ZS	1	1	1	1	0	0	0	0	0	1	0	0	0.4
17	0	0	1	0	0	0	0	0	0	0	1	ZS	1	1	0	1	0	0	0	0	0	0	0	0	0.2
18	0	0	0	0	0	0	0	1	2	2	10	ZS	4	3	2	24	3	1	2	5	2	1	1	0	2.7
19	0	0	0	0	0	0	0	1	1	1	2	ZS	2	2	2	2	1	0	1	0	0	1	0	0	0.7
20	0	0	0	0	0	0	0	1	3	7	4	ZS	4	2	5	3	4	2	1	2	4	3	6	15	2.9
21	10	10	11	12	7	6	2	3	2	2	4	ZS	2	1	1	1	1	1	0	0	0	0	0	0	3.3
22	0	0	0	0	0	0	0	0	0	0	0	ZS	0	0	0	0	0	0	0	0	0	0	0	0	0.0
23	1	1	0	0	0	0	2	0	7	8	8	ZS	1	1	1	1	1	0	0	0	1	4	2	0	1.7
24	0	0	0	0	0	0	1	0	1	3	4	ZS	3	3	2	1	0	0	0	0	0	0	0	0	0.8
25	0	0	0	0	0	0	1	1	2	4	2	ZS	1	1	1	4	2	2	0	0	1	0	0	0	1.0
26	0	0	0	0	0	0	0	3	1	1	1	ZS	3	2	0	0	0	0	1	1	0	0	0	0	0.6
27	0	0	0	0	0	0	0	1	2	2	4	ZS	2	2	2	1	2	1	1	1	2	1	0	0	1.0
28	0	0	0	0	0	0	1	1	1	2	2	ZS	0	0	0	0	0	0	1	1	1	0	0	0	0.4
29	0	0	0	0	0	0	0	0	0	0	1	ZS	0	1	1	1	1	0	1	0	0	0	0	0	0.3
30	0	0	0	0	0	0	0	0	0	1	1	ZS	1	1	1	PF	PF	PF	PF	PF	PF	PF	PF	PF	0.4
1	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	---
2	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	1	1	1	1	1	1	1.0
3	1	1	0	1	0	0	1	1	1	5	CAL	CAL	CAL	CAL	CAL	NS	NS	NS	NS	NS	NS	NS	NS	NS	1.1
	0.8	1.0	1.0	1.0	0.6	1.0	1.5	2.7	4.0	4.6	6.7	2.0	2.9	2.6	2.9	3.7	1.9	1.2	0.8	0.8	0.9	0.8	0.8	1.0	
Diurnal Average																									
ZS - Zero/Span Calibration						CAL - Multipoint Calibration						M - Maintenance						DAF - Data Acquisition Failure							
AF - Analyzer Failure						UO - Unstable Operation						PF - Power Failure						NS - Not in Service							
Maximum Value in Table: 41				First Occurrence on Day 14 Hour 11				Frequency: 1				Hours in Service: 650													
Minimum Value in Table: 0				First Occurrence on Day 6 Hour 20				Frequency: 248				Hours of Data: 567													
Maximum Daily Value: 8.7				First Occurrence on Day 14				Minimum Daily Value: 0				First Occurrence on Day 22													
Maximum Diurnal Value: 7				First Occurrence at Hour 11				Minimum Diurnal Value: 1				First Occurrence at Hour 5													
Monthly Mean: 2.0				Percentiles: P10 = 0.1 Q1 = 0.2 Median = 0.6 Q3 = 1.8 P90 = 5.2				Hours of Missing Data: 83				Hours of Calibration: 34													
												Percent Operational Time: 92.46													

Bentley NO Hourly Averages

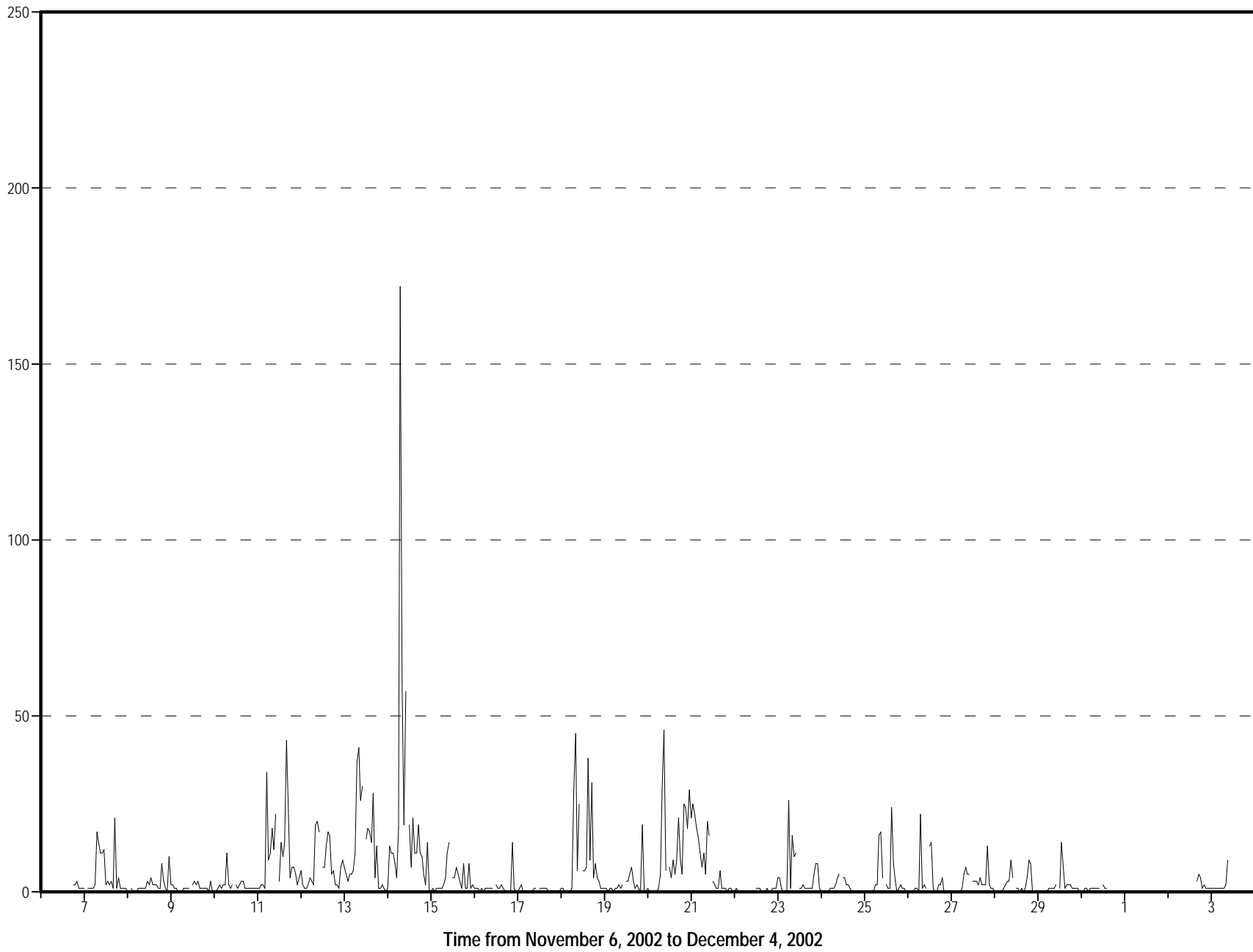


Parkland Airshed Management Zone
Summary of Maximum Value in each Hour

AMS 110 (Bentley)
 November 2002
 NO (ppb)

Day	Hourly Period Ending At																								Daily Average		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2	2	3	1	1	1	1.7		
7	1	--	1	1	1	1	2	17	14	11	11	12	2	3	2	3	1	21	1	4	1	1	1	1	4.9		
8	0	--	1	0	0	0	1	1	1	1	1	3	2	4	2	2	2	1	1	8	3	1	0	10	2.0		
9	2	2	1	1	0	0	0	1	1	1	1	--	2	3	2	3	1	1	1	1	1	0	3	0	1.2		
10	0	0	1	2	1	2	2	11	2	1	2	--	2	1	2	3	3	1	1	1	1	1	1	1	1.8		
11	1	1	2	2	1	34	9	11	18	12	22	--	3	14	10	14	43	23	4	7	7	5	2	4	10.8		
12	6	2	1	1	2	4	3	2	19	20	17	--	7	7	13	17	16	5	6	2	2	1	7	9	7.3		
13	7	5	3	5	5	6	11	37	41	26	30	--	15	18	17	14	28	4	13	1	1	2	1	0	12.6		
14	1	13	11	11	8	4	18	172	60	19	57	--	19	7	21	11	11	19	11	10	5	2	14	0	21.9		
15	0	1	0	1	1	1	1	2	4	11	14	--	4	4	7	5	3	1	8	1	1	8	1	2	3.5		
16	1	1	1	0	1	0	1	1	1	1	1	--	2	1	1	2	1	0	0	0	0	14	1	0	1.3		
17	0	1	2	0	0	0	0	0	0	1	1	--	1	1	1	1	1	0	0	0	0	0	0	0	0.4		
18	1	1	0	0	0	0	1	29	45	6	25	--	6	6	7	38	9	31	4	8	4	3	1	1	9.8		
19	1	1	0	1	1	0	1	1	2	1	2	--	3	3	5	7	3	1	2	1	0	19	0	0	2.4		
20	1	0	0	0	0	0	1	5	29	46	6	--	7	4	9	5	9	21	9	5	25	24	18	29	11.0		
21	21	25	22	18	15	11	7	11	5	20	16	--	3	2	1	1	6	1	1	1	0	1	1	0	8.2		
22	0	1	0	0	0	0	0	0	0	0	0	--	1	1	1	0	0	0	1	0	0	1	1	1	0.3		
23	4	4	1	0	0	0	26	1	16	10	11	--	1	1	2	1	1	1	1	1	5	8	8	1	4.5		
24	0	0	0	0	0	1	1	1	2	4	5	--	4	4	2	2	1	0	0	0	0	0	0	0	1.2		
25	0	0	0	0	0	0	2	2	16	17	4	--	2	1	1	24	8	3	0	1	2	1	1	0	3.7		
26	0	0	0	0	1	1	0	22	1	2	1	--	13	14	1	0	0	2	2	4	0	0	0	0	2.8		
27	0	0	0	0	0	0	1	5	7	5	5	--	3	3	3	2	4	2	2	2	13	2	1	1	2.7		
28	0	0	0	0	0	1	2	3	3	9	4	--	1	1	0	1	0	1	4	9	8	0	0	0	2.0		
29	0	0	0	0	0	0	1	1	1	1	2	--	1	14	7	1	2	2	2	1	1	1	1	0	1.7		
30	0	0	1	1	0	1	1	1	1	1	1	--	2	1	1	--	--	--	--	--	--	--	--	--	0.9		
1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3	5	4	1	2	1	1	1	2.3		
3	1	1	1	1	1	1	1	1	2	9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.9	
	1.9	2.6	2.0	1.8	1.5	2.7	3.7	13.5	11.6	9.4	10.0		7.5	4.4	4.9	4.9	6.8	6.5	6.1	3.2	2.8	3.4	3.9	2.6	2.5		
Diurnal Average																											
ZS - Zero/Span Calibration							CAL - Multipoint Calibration							M - Maintenance							DAF - Data Acquisition Failure						
AF - Analyzer Failure							UO - Unstable Operation							SP - Spurious/Invalid Data							NS - Not in Service						
Maximum Value in Table: 172							First Occurrence on Day 14 Hour 8							Frequency: 1													
Minimum Value in Table: 0							First Occurrence on Day 8 Hour 1							Frequency: 128													
Maximum Daily Value: 22							First Occurrence on Day 14							Minimum Daily Value: 0							First Occurrence on Day 22						
Maximum Diurnal Value: 14							First Occurrence at Hour 8							Minimum Diurnal Value: 2							First Occurrence at Hour 5						
Monthly Mean: 4.9 Percentiles: P10 = 0.3 Q1 = 0.5 Median = 1.3 Q3 = 4.7 P90 = 14.0																											

Bentley NO Maximum Values

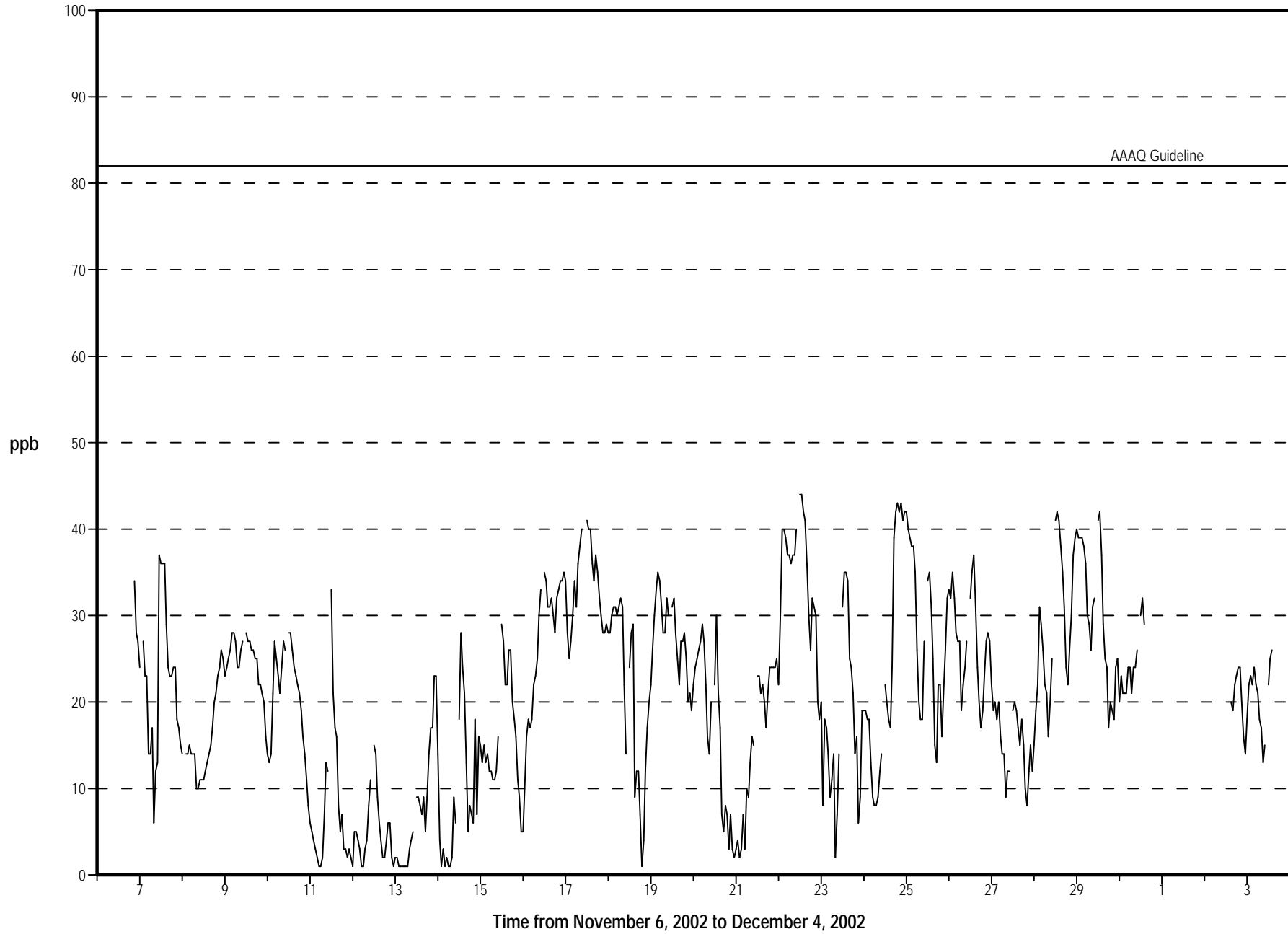


Parkland Airshed Management Zone
Summary of Hourly Averages

AMS 110 (Bentley)
 November 6, 2002 to December 4, 2002
 O3 (ppb)

Day	Hourly Period Ending At																								Daily Average	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
6	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	CAL	CAL	CAL	CAL	34	28	27	29.7	
7	24	ZS	27	23	23	14	14	17	6	12	13	37	36	36	36	29	24	23	23	24	24	18	17	15	22.4	
8	14	ZS	14	14	15	14	14	14	10	10	11	11	11	12	13	14	15	17	20	21	23	24	26	25	15.7	
9	23	24	25	26	28	28	27	24	24	26	27	ZS	28	27	27	26	26	25	25	22	22	21	20	16	24.7	
10	14	13	14	21	27	25	23	21	24	27	26	ZS	28	28	26	24	23	22	21	19	16	14	11	8	20.7	
11	6	5	4	3	2	1	1	2	7	13	12	ZS	33	21	17	16	8	5	7	3	3	2	3	2	7.7	
12	1	5	5	4	3	1	1	3	4	8	11	ZS	15	14	9	6	4	2	2	4	6	6	2	1	5.1	
13	2	2	1	1	1	1	1	1	3	4	5	ZS	9	9	8	7	9	5	9	14	17	17	23	23	7.5	
14	14	4	1	3	1	2	1	1	2	9	6	ZS	18	28	24	21	13	5	8	7	6	18	7	16	9.3	
15	15	13	15	13	14	12	12	11	11	12	16	ZS	29	27	22	22	26	26	20	18	16	11	9	5	16.3	
16	5	10	16	18	17	18	22	23	25	30	33	ZS	35	34	31	31	32	30	28	32	33	34	34	35	26.3	
17	34	28	25	27	30	34	31	36	38	40	40	ZS	41	40	40	36	34	37	35	32	30	28	28	29	33.6	
18	28	28	30	31	31	30	31	32	31	22	14	ZS	24	28	29	9	12	12	7	1	4	12	17	20	21.0	
19	22	26	30	33	35	34	31	28	28	32	30	ZS	31	32	28	25	22	27	27	28	25	20	21	19	27.6	
20	22	24	25	26	27	29	27	22	16	14	20	ZS	22	30	21	17	7	5	8	7	3	7	3	2	16.7	
21	3	4	2	3	7	3	10	9	13	16	15	ZS	23	23	21	22	20	17	21	24	24	24	24	25	15.3	
22	22	30	40	40	39	37	37	36	37	37	40	ZS	44	44	42	41	36	30	26	32	31	30	20	18	34.3	
23	20	8	18	17	14	9	11	14	2	7	14	ZS	31	35	35	34	25	24	21	14	16	6	9	19	17.5	
24	19	19	18	18	13	9	8	8	9	12	14	ZS	22	20	18	17	24	39	42	43	42	43	41	42	23.5	
25	42	40	39	38	38	35	26	20	18	18	27	ZS	34	35	31	25	15	13	22	22	16	21	26	32	27.5	
26	33	32	35	32	28	27	27	19	22	24	27	ZS	32	35	37	31	24	20	17	19	23	27	28	27	27.2	
27	22	19	20	18	20	16	14	14	9	12	12	ZS	19	20	19	17	15	18	15	10	8	12	15	12	15.5	
28	15	19	22	31	29	26	22	21	16	20	25	ZS	41	42	41	38	35	31	24	22	26	30	37	39	28.3	
29	40	39	39	39	38	36	30	29	26	31	32	ZS	41	42	37	29	25	24	17	20	19	18	24	25	30.4	
30	20	23	21	21	21	24	24	21	24	24	26	ZS	30	32	29	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	24.3
1	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	---
2	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	20.2
3	18	22	23	22	24	22	21	18	17	13	15	ZS	22	25	26	CAL	CAL	NS	NS	NS	NS	NS	NS	NS	NS	20.6
	19.1	19.0	20.4	20.9	21.0	19.5	18.6	17.8	16.9	18.9	20.4	24.0	28.0	28.8	26.7	23.2	20.5	20.0	19.5	19.3	19.0	19.9	19.6	19.8		
Diurnal Average																										
ZS - Zero/Span Calibration							CAL - Multipoint Calibration							M - Maintenance							DAF - Data Acquisition Failure					
AF - Analyzer Failure							UO - Unstable Operation							PF - Power Failure							NS - Not in Service					
Maximum Value in Table: 44				First Occurrence on Day 22 Hour 13				Frequency: 2				Hours in Service: 648														
Minimum Value in Table: 1				First Occurrence on Day 11 Hour 6				Frequency: 17				Hours of Data: 569														
Maximum Daily Value: 34.3				First Occurrence on Day 22				Minimum Daily Value: 5				First Occurrence on Day 12														
Maximum Diurnal Value: 29				First Occurrence at Hour 14				Minimum Diurnal Value: 17				First Occurrence at Hour 9														
Monthly Mean: 20.7				Percentiles: P10 = 4.9 Q1 = 13.3 Median = 21.5 Q3 = 28.2 P90 = 35.4				Percent Operational Time: 92.59																		

Bentley O3 Hourly Averages

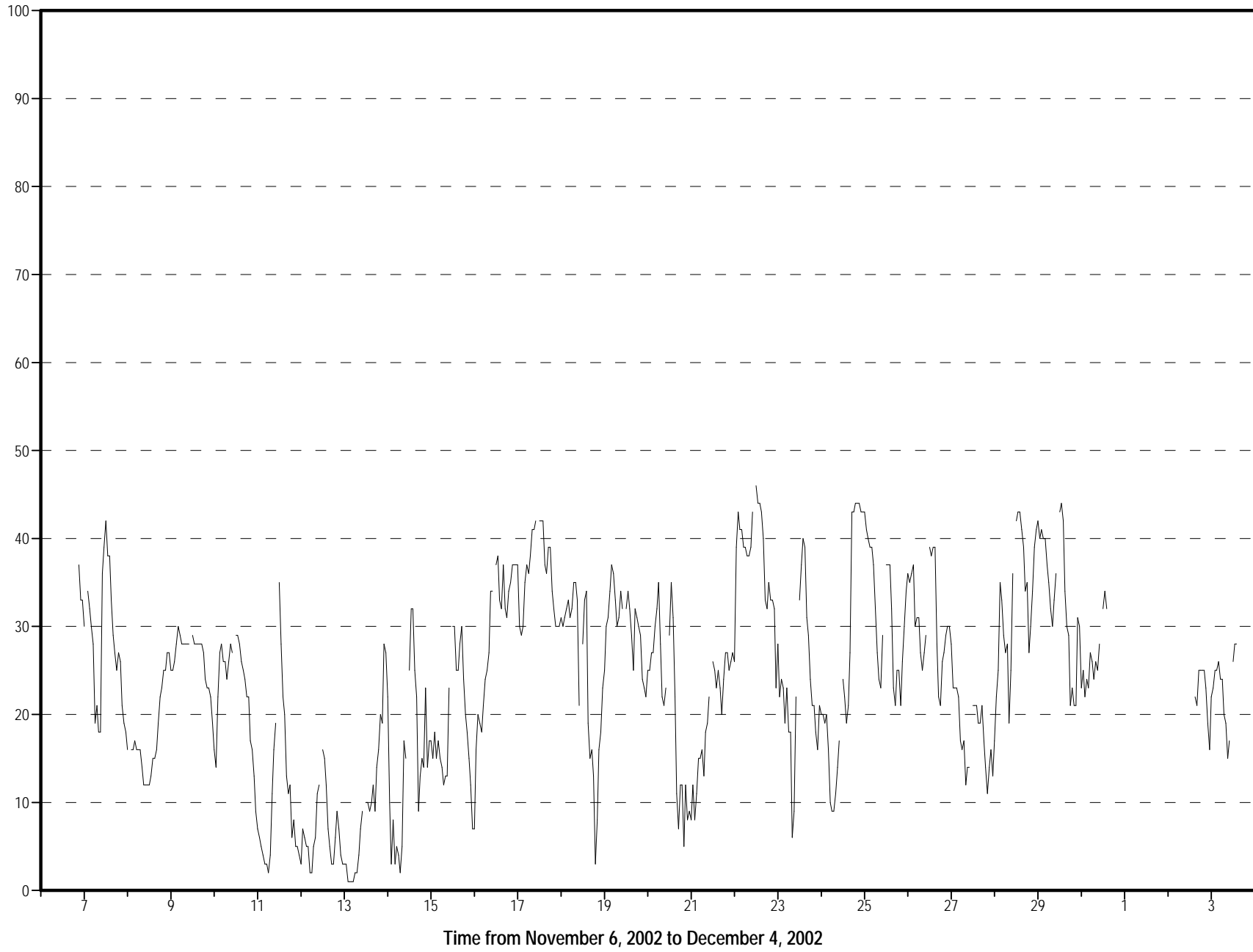


Parkland Airshed Management Zone
Summary of Maximum Value in each Hour

AMS 110 (Bentley)
 November 2002
 O3 (ppb)

Day	Hourly Period Ending At																								Daily Average	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	37	33	33	34.3	
7	30	--	34	32	30	28	19	21	18	18	36	39	42	38	38	33	29	27	25	27	26	21	19	18	28.2	
8	16	--	16	16	17	16	16	16	14	12	12	12	12	13	15	15	16	19	22	23	25	25	27	27	17.5	
9	25	25	26	28	30	29	28	28	28	28	28	--	29	28	28	28	28	28	27	24	23	23	22	19	26.5	
10	16	14	22	27	28	26	26	24	26	28	27	--	29	29	28	26	25	24	22	22	17	16	13	9	22.8	
11	7	6	5	4	3	3	2	4	11	16	19	--	35	28	22	20	13	11	12	6	8	5	5	4	10.8	
12	3	7	6	5	5	2	2	5	6	11	12	--	16	15	12	7	5	3	3	6	9	7	4	3	6.7	
13	3	3	1	1	1	1	2	2	4	7	9	--	10	10	9	10	12	9	14	16	20	19	28	27	9.5	
14	22	10	3	8	3	5	4	2	5	17	15	--	25	32	32	25	22	9	13	15	14	23	14	17	14.6	
15	17	15	18	15	17	15	14	12	13	13	23	--	30	30	25	25	28	30	24	20	18	15	12	7	19.0	
16	7	16	20	19	18	21	24	25	27	34	34	--	37	38	33	32	37	32	31	34	35	37	37	37	28.9	
17	37	30	29	30	35	37	36	38	41	41	42	--	42	42	42	37	36	39	39	34	32	30	30	30	36.0	
18	31	30	31	32	33	31	32	35	35	33	21	--	28	33	34	19	15	16	13	3	8	16	18	23	24.8	
19	25	30	31	34	37	36	33	30	31	34	32	--	32	34	32	29	25	32	31	30	29	24	23	22	30.3	
20	25	25	27	27	30	32	35	28	22	21	23	--	29	35	31	22	11	7	12	12	5	12	8	9	21.2	
21	8	12	8	11	15	15	16	13	18	19	22	--	26	25	23	25	23	20	24	27	27	25	26	27	19.8	
22	26	39	43	41	41	39	39	38	38	39	43	--	46	44	44	43	40	33	32	35	33	33	32	23	37.6	
23	28	22	24	23	19	23	18	18	6	9	22	--	33	37	40	39	31	29	24	21	21	18	16	21	23.6	
24	20	20	19	20	16	10	9	9	11	14	17	--	24	22	19	21	27	43	43	44	44	44	43	43	25.3	
25	43	41	40	39	39	37	32	27	24	23	29	--	37	37	37	32	23	21	25	25	21	26	30	34	31.4	
26	36	35	36	37	30	31	31	27	25	27	29	--	39	38	39	39	28	22	21	26	27	29	30	30	31.0	
27	28	23	23	23	22	17	16	17	12	14	14	--	21	21	21	19	19	21	17	14	11	14	16	13	18.1	
28	17	22	25	35	33	29	27	28	19	25	36	--	42	43	43	41	39	34	35	27	30	34	39	41	32.3	
29	42	40	41	40	40	37	35	32	30	33	36	--	43	44	42	34	30	29	21	23	21	21	31	30	33.7	
30	23	25	22	24	23	27	26	24	26	25	28	--	32	34	32	--	--	--	--	--	--	--	--	--	--	26.5
1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	---
2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	22	21	25	25	25	25	23	19	16	22.3	
3	22	23	25	25	26	24	24	20	19	15	17	--	26	28	28	--	--	--	--	--	--	--	--	--	--	23.0
	22.3	22.3	23.0	23.8	23.6	22.8	21.8	20.9	20.4	22.2	25.0		25.5	30.6	31.1	30.0	26.8	24.3	23.5	23.1	22.5	22.0	23.1	23.0	22.5	
	Diurnal Average																									
ZS - Zero/Span Calibration CAL - Multipoint Calibration M - Maintenance DAF - Data Aquisition Failure AF - Analyzer Failure UO - Unstable Operation SP - Spurious/Invalid Data NS - Not in Service																										
Maximum Value in Table: 46 First Occurrence on Day 22 Hour 13 Frequency: 1 Minimum Value in Table: 1 First Occurrence on Day 13 Hour 3 Frequency: 4 Maximum Daily Value: 38 First Occurrence on Day 22 Minimum Daily Value: 7 First Occurrence on Day 12 Maximum Diurnal Value: 31 First Occurrence at Hour 14 Minimum Diurnal Value: 20 First Occurrence at Hour 9 Monthly Mean: 24.0 Percentiles: P10 = 8.3 Q1 = 16.2 Median = 24.7 Q3 = 31.7 P90 = 38.3																										

Bentley O3 Maximum Values

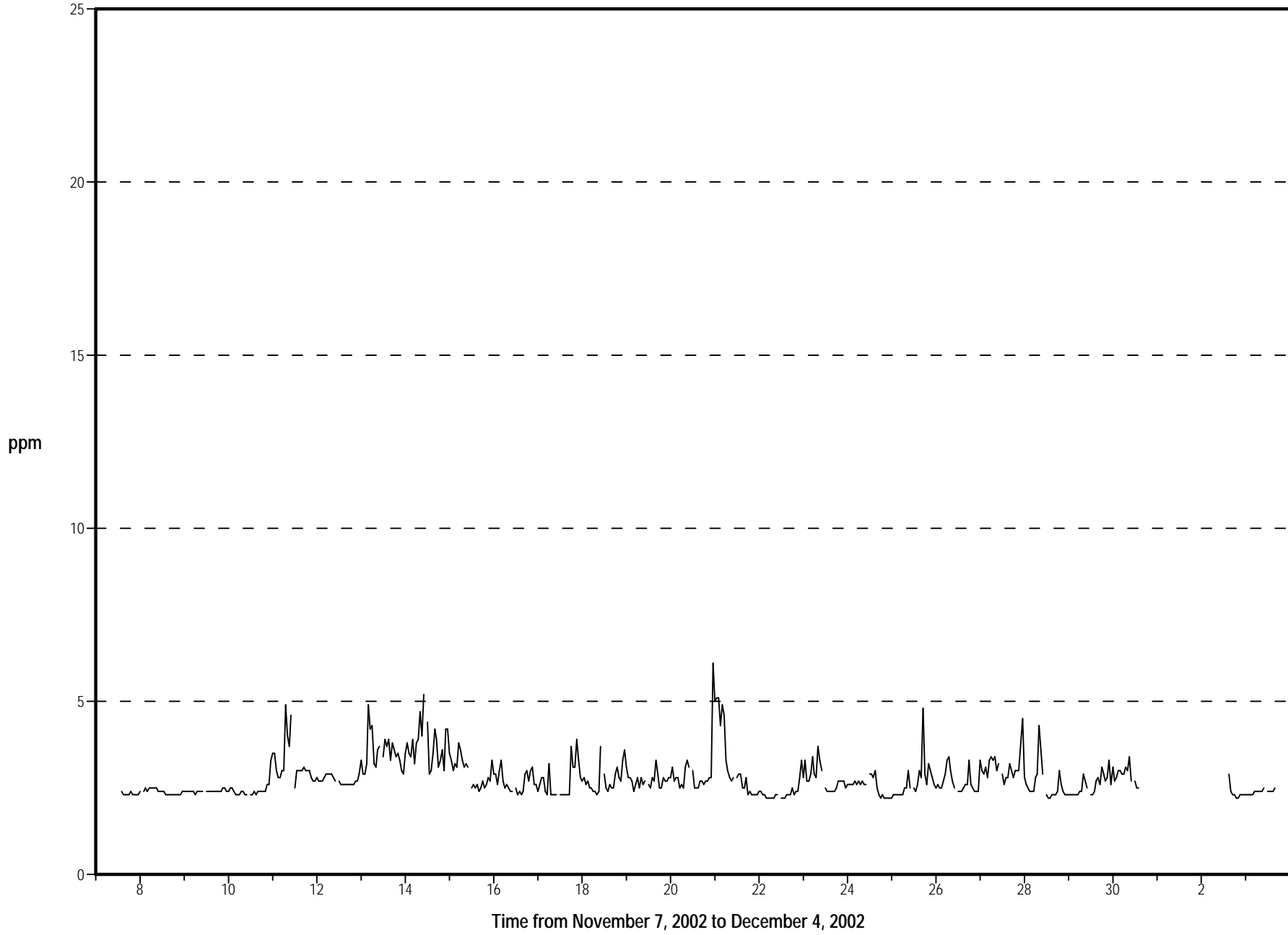


Parkland Airshed Management Zone
Summary of Hourly Averages

AMS 110 (Bentley)
 November 7, 2002 to December 4, 2002
 THC (ppm)

Day	Hourly Period Ending At																								Daily Average	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
7	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	CAL	CAL	CAL	CAL	2.4	2.3	2.3	2.3	2.3	2.4	2.3	2.3	2.3	2.3	2.3	2.3
8	2.4	ZS	2.4	2.5	2.4	2.5	2.5	2.5	2.5	2.5	2.4	2.4	2.4	2.4	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.4	2.4
9	2.4	2.4	2.4	2.4	2.4	2.4	2.3	2.4	2.4	2.4	2.4	ZS	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.5	2.5	2.4	2.4	2.4
10	2.4	2.5	2.5	2.4	2.3	2.3	2.3	2.4	2.4	2.3	2.3	ZS	2.3	2.3	2.4	2.3	2.4	2.4	2.4	2.4	2.4	2.6	2.6	3.3	3.3	2.4
11	3.5	3.5	3.0	2.8	2.8	3.0	3.0	4.9	4.0	3.7	4.6	ZS	2.5	3.0	3.0	3.0	3.0	3.1	3.0	3.0	3.0	2.8	2.7	2.7	2.7	3.2
12	2.8	2.7	2.7	2.7	2.8	2.9	2.9	2.9	2.9	2.8	2.7	ZS	2.7	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.7	2.7	2.9	2.9	2.7
13	3.3	2.9	2.9	3.2	4.9	4.2	4.3	3.2	3.1	3.6	3.7	ZS	3.4	3.9	3.7	3.9	3.3	3.8	3.6	3.4	3.5	3.3	3.0	2.9	2.9	3.5
14	3.5	3.8	3.5	3.4	3.9	3.2	3.8	3.9	4.7	4.0	5.2	ZS	4.4	2.9	3.0	3.5	4.2	3.9	3.1	3.3	3.6	3.0	4.2	4.2	4.2	3.7
15	3.5	3.3	3.0	3.2	3.1	3.8	3.6	3.3	3.1	3.2	3.1	ZS	2.5	2.6	2.5	2.6	2.4	2.5	2.7	2.5	2.6	2.8	2.7	3.3	3.0	3.0
16	2.9	2.9	2.6	3.0	3.3	2.7	2.5	2.6	2.5	2.4	2.4	ZS	2.5	2.3	2.4	2.3	2.4	2.9	3.0	2.7	3.0	3.1	2.6	2.6	2.6	2.7
17	2.4	2.6	2.8	2.8	2.4	2.3	3.2	2.3	2.3	2.3	2.3	ZS	2.3	2.3	2.3	2.3	2.3	2.3	3.7	3.1	3.1	3.9	3.3	2.8	2.7	2.7
18	2.7	2.8	2.6	2.7	2.5	2.5	2.4	2.4	2.3	2.4	3.7	ZS	2.9	2.5	2.4	2.6	2.5	2.5	2.9	3.1	2.8	2.7	3.3	3.6	2.7	2.7
19	3.1	2.8	2.8	2.7	2.4	2.6	2.8	2.5	2.8	2.6	2.7	ZS	2.6	2.5	2.8	2.7	3.3	2.9	2.5	2.5	2.8	2.7	2.7	2.8	2.7	2.7
20	2.8	3.1	2.7	2.8	2.8	2.5	2.6	2.5	3.1	3.3	3.1	ZS	3.0	2.5	2.5	2.5	2.7	2.7	2.6	2.7	2.7	2.8	2.8	6.1	2.9	2.9
21	5.0	5.1	5.1	4.3	4.9	4.6	3.3	3.0	2.8	2.7	2.8	ZS	2.8	2.9	2.9	2.5	2.5	2.8	2.3	2.4	2.3	2.3	2.3	2.3	2.3	3.2
22	2.4	2.4	2.3	2.3	2.2	2.2	2.2	2.2	2.2	2.3	2.3	ZS	2.2	2.2	2.2	2.3	2.3	2.3	2.5	2.3	2.4	2.4	2.8	3.3	2.4	2.4
23	2.8	3.3	2.7	2.7	2.9	3.4	2.9	2.8	3.7	3.3	3.0	ZS	2.5	2.4	2.4	2.4	2.4	2.4	2.5	2.7	2.7	2.7	2.7	2.5	2.8	2.8
24	2.6	2.6	2.6	2.6	2.7	2.6	2.7	2.6	2.7	2.6	2.6	ZS	2.9	2.9	2.8	3.0	2.5	2.3	2.2	2.3	2.2	2.2	2.2	2.2	2.2	2.5
25	2.2	2.3	2.3	2.3	2.3	2.3	2.3	2.5	2.5	3.0	2.5	ZS	2.5	2.4	2.6	3.0	2.8	4.8	2.9	2.6	3.2	3.0	2.8	2.6	2.7	2.7
26	2.5	2.6	2.5	2.5	2.7	2.9	3.3	3.4	3.0	2.7	2.5	ZS	2.4	2.4	2.4	2.5	2.6	2.6	3.3	2.6	2.5	2.4	2.4	2.4	2.7	2.7
27	3.3	3.0	2.9	3.1	2.8	3.3	3.4	3.3	3.4	3.0	3.2	ZS	2.9	2.6	2.8	2.8	3.2	3.0	2.8	3.0	3.0	3.0	3.8	4.5	3.1	3.1
28	2.8	2.6	2.5	2.4	2.4	2.4	2.8	2.9	4.3	3.6	2.9	ZS	2.3	2.2	2.2	2.3	2.3	2.3	2.4	3.0	2.6	2.4	2.3	2.3	2.6	2.6
29	2.3	2.3	2.3	2.3	2.3	2.3	2.4	2.4	2.9	2.7	2.5	ZS	2.3	2.3	2.4	2.7	2.8	2.6	3.1	2.9	2.7	2.8	3.3	2.6	2.6	2.6
30	3.1	2.7	2.8	3.0	3.0	2.9	2.9	3.1	3.0	3.4	2.7	ZS	2.7	2.5	2.5	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	2.9
1	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	---
2	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	2.9	2.4	2.3	2.3	2.2	2.2	2.3	2.3	2.3	2.4	2.4
3	2.3	2.3	2.3	2.3	2.3	2.4	2.4	2.4	2.4	2.4	2.5	ZS	2.4	2.4	2.4	2.4	2.5	CAL	CAL	NS	NS	NS	NS	NS	NS	2.4
Diurnal Average																										
ZS - Zero/Span Calibration CAL - Multipoint Calibration M - Maintenance DAF - Data Acquisition Failure AF - Analyzer Failure UO - Unstable Operation PF - Power Failure NS - Not in Service																										
Maximum Value in Table: 6.1 First Occurrence on Day 20 Hour 24 Frequency: 1 Hours in Service: 633 Minimum Value in Table: 2.2 First Occurrence on Day 22 Hour 5 Frequency: 18 Hours of Data: 555 Maximum Daily Value: 3.7 First Occurrence on Day 14 Minimum Daily Value: 2.3 First Occurrence on Day 7 Hours of Missing Data: 78 Maximum Diurnal Value: 3.0 First Occurrence at Hour 24 Minimum Diurnal Value: 2.4 First Occurrence at Hour 12 Hours of Calibration: 30 Monthly Mean: 2.78 Percentiles: P10 = 2.30 Q1 = 2.38 Median = 2.63 Q3 = 2.97 P90 = 3.41 Percent Operational Time: 92.42																										

Bentley THC Hourly Averages

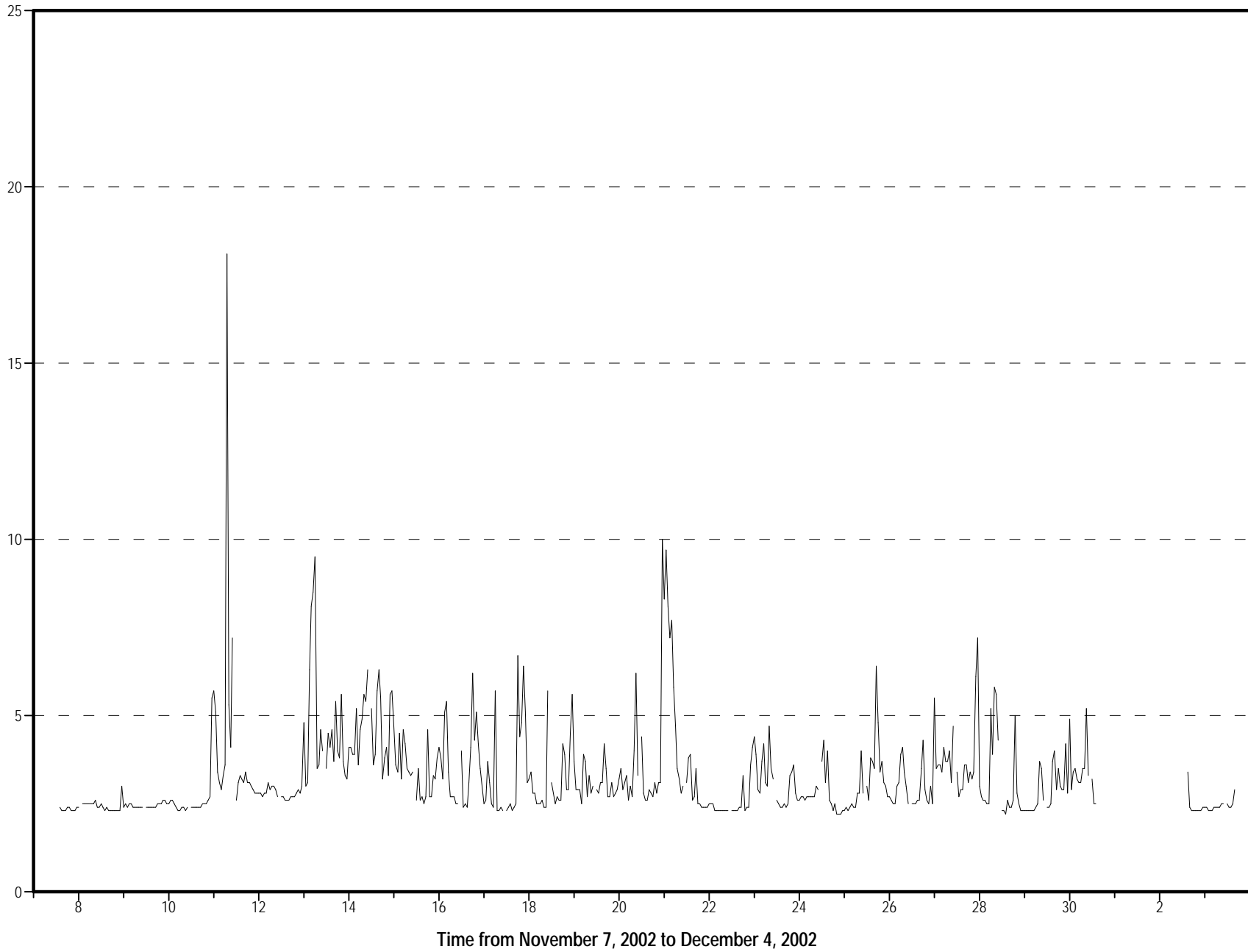


**Parkland Airshed Management Zone
Summary of Maximum Value in each Hour**

AMS 110 (Bentley)
November 2002
THC (ppm)

Day	Hourly Period Ending At																								Daily Average
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2.4	2.3	2.3	2.3	2.4	2.4	2.3	2.3	2.3	2.4	2.34
8	2.4	--	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.6	2.4	2.4	2.5	2.4	2.3	2.4	2.3	2.3	2.3	2.3	2.3	2.3	2.3	3.0	2.43
9	2.4	2.5	2.4	2.5	2.5	2.4	2.4	2.4	2.4	2.4	2.4	--	2.4	2.4	2.4	2.4	2.4	2.4	2.5	2.5	2.5	2.6	2.6	2.5	2.45
10	2.5	2.6	2.6	2.5	2.4	2.3	2.3	2.4	2.4	2.3	2.4	--	2.4	2.4	2.4	2.4	2.4	2.4	2.5	2.5	2.5	2.6	2.7	5.5	2.58
11	5.7	5.1	3.4	3.1	2.9	3.3	3.6	18.1	5.3	4.1	7.2	--	2.6	3.1	3.3	3.2	3.1	3.4	3.1	3.1	3.0	2.9	2.8	2.8	4.27
12	2.8	2.8	2.7	2.8	2.8	3.1	2.9	3.0	3.0	2.9	2.7	--	2.7	2.7	2.6	2.6	2.6	2.7	2.7	2.7	2.8	2.9	2.8	3.0	2.80
13	4.8	3.0	3.1	6.3	8.1	8.5	9.5	3.5	3.6	4.6	4.0	--	3.5	4.5	4.1	4.6	3.7	5.4	4.0	3.8	5.6	3.7	3.3	3.2	4.71
14	4.1	4.1	3.9	3.9	5.2	3.6	4.6	4.9	5.6	5.4	6.3	--	5.2	3.6	3.9	5.7	6.3	5.5	3.2	3.8	4.1	3.3	5.6	5.7	4.67
15	4.7	3.6	3.4	4.5	3.2	4.6	4.2	3.5	3.4	3.3	3.4	--	2.6	3.5	2.6	2.7	2.5	2.7	4.6	2.7	2.7	3.3	3.2	3.8	3.42
16	4.1	3.8	3.2	5.1	5.4	3.4	2.7	2.7	2.7	2.5	2.5	--	4.0	2.4	2.5	2.4	3.1	4.1	6.2	4.3	5.1	4.2	3.5	3.0	3.60
17	2.5	2.6	3.7	3.1	2.5	2.4	5.7	2.3	2.3	2.4	2.3	--	2.3	2.4	2.5	2.3	2.4	2.5	6.7	4.4	4.8	6.4	5.1	3.1	3.33
18	3.2	3.4	2.8	2.8	2.5	2.5	2.5	2.6	2.4	2.4	5.7	--	3.1	2.8	2.5	2.7	2.6	2.6	4.2	3.9	2.9	2.9	4.5	5.6	3.18
19	3.7	2.9	2.9	2.9	2.5	3.9	3.7	2.7	3.3	2.8	3.0	--	2.9	2.8	3.1	3.1	4.2	3.5	2.7	2.7	3.1	2.7	2.8	2.9	3.08
20	3.2	3.5	2.9	3.1	3.3	2.6	3.0	2.7	4.0	6.2	3.3	--	4.4	2.8	2.6	2.6	2.9	2.8	2.7	3.1	2.8	3.1	3.1	10.0	3.51
21	8.3	9.7	8.1	7.2	7.7	5.8	4.7	3.5	3.2	2.8	3.0	--	3.1	3.8	3.9	2.6	2.7	3.5	2.5	2.4	2.4	2.4	2.4	2.4	4.27
22	2.5	2.5	2.5	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	--	2.3	2.3	2.3	2.3	2.4	2.4	3.3	2.3	2.4	2.4	3.6	4.1	2.52
23	4.4	3.9	2.9	2.8	3.7	4.2	3.1	3.0	4.7	3.5	3.2	--	2.6	2.5	2.4	2.4	2.5	2.4	2.5	3.3	3.4	3.6	2.8	2.6	3.15
24	2.6	2.7	2.7	2.6	2.7	2.7	2.7	2.7	2.7	3.0	2.9	--	3.7	4.3	3.1	4.0	2.6	2.5	2.3	2.5	2.2	2.2	2.2	2.3	2.78
25	2.3	2.4	2.3	2.4	2.5	2.4	2.4	2.8	2.8	4.0	2.8	--	3.0	2.6	3.8	3.7	3.5	6.4	4.8	3.4	3.7	3.1	3.0	2.7	3.17
26	2.7	2.6	2.5	2.5	3.0	3.1	3.9	4.1	3.4	3.0	2.5	--	2.5	2.5	2.5	2.6	2.6	3.5	4.3	2.9	2.6	2.5	3.0	2.5	2.93
27	5.5	3.5	3.6	3.6	3.4	4.1	3.7	3.7	4.0	3.1	4.7	--	3.4	2.7	2.9	2.9	3.6	3.6	3.1	3.4	3.2	3.4	6.1	7.2	3.84
28	3.0	2.7	2.6	2.6	2.5	2.5	5.2	3.9	5.8	5.6	4.3	--	2.3	2.3	2.2	2.6	2.4	2.4	2.6	5.0	2.8	2.5	2.3	2.3	3.15
29	2.3	2.3	2.3	2.3	2.3	2.3	2.4	2.5	3.7	3.5	2.6	--	2.4	2.4	2.5	3.7	4.0	2.9	3.5	3.0	2.9	2.9	4.2	2.8	2.86
30	4.9	2.9	3.4	3.5	3.2	3.1	3.1	3.5	3.5	5.2	3.3	--	3.2	2.5	2.5	--	--	--	--	--	--	--	--	--	3.41
1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	---
2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3.4	2.4	2.3	2.3	2.3	2.3	2.3	2.3	2.4	2.44
3	2.4	2.4	2.3	2.3	2.3	2.4	2.4	2.4	2.4	2.5	2.5	--	2.5	2.4	2.4	2.5	2.9	--	--	--	--	--	--	--	2.44
Diurnal Average																									
ZS - Zero/Span Calibration CAL - Multipoint Calibration M - Maintenance DAF - Data Acquisition Failure AF - Analyzer Failure UO - Unstable Operation SP - Spurious/Invalid Data NS - Not in Service																									
Maximum Value in Table: 18.1 First Occurrence on Day 11 Hour 8 Frequency: 1 Minimum Value in Table: 2.2 First Occurrence on Day 24 Hour 21 Frequency: 4 Maximum Daily Value: 4.7 First Occurrence on Day 13 Minimum Daily Value: 2.3 First Occurrence on Day 7 Maximum Diurnal Value: 3.7 First Occurrence at Hour 24 Minimum Diurnal Value: 2.4 First Occurrence at Hour 12 Monthly Mean: 3.25 Percentiles: P10 = 2.34 Q1 = 2.46 Median = 2.79 Q3 = 3.53 P90 = 4.67																									

Bentley THC Maximum Values

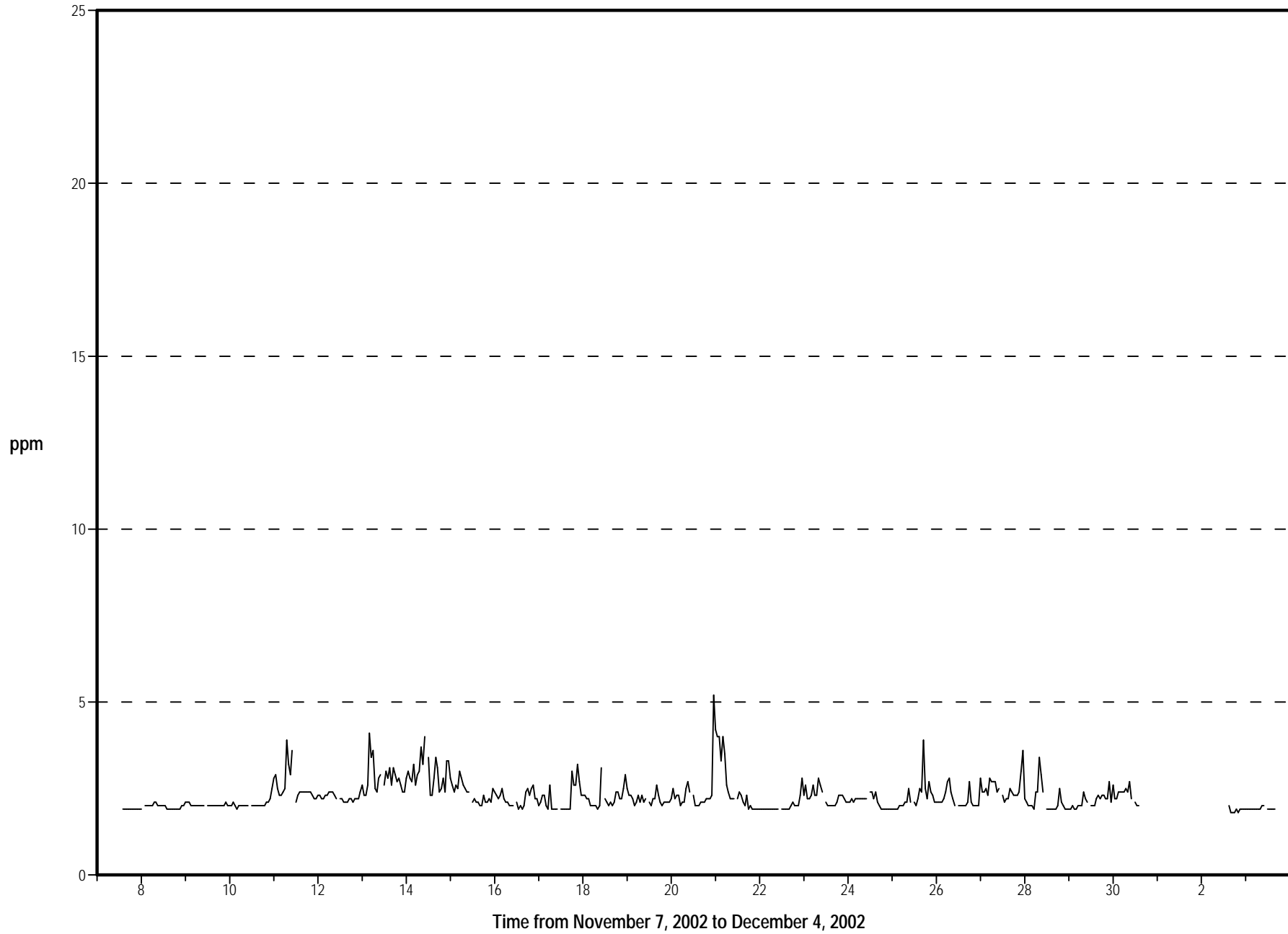


Parkland Airshed Management Zone
Summary of Hourly Averages

AMS 110 (Bentley)
 November 7, 2002 to December 4, 2002
 CH4 (ppm)

Day	Hourly Period Ending At																								Daily Average		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
7	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	CAL	CAL	CAL	CAL	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	
8	1.9	ZS	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.0	
9	2.1	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	ZS	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.2	2.5	2.0	
10	2.0	2.0	2.1	2.0	1.9	2.0	2.0	2.0	2.0	2.0	2.0	ZS	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.2	2.5	2.0	2.0	
11	2.8	2.9	2.5	2.3	2.3	2.4	2.5	3.9	3.2	2.9	3.6	ZS	2.1	2.3	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.3	2.2	2.2	2.6	2.6	
12	2.3	2.3	2.2	2.2	2.3	2.3	2.4	2.4	2.4	2.3	2.2	ZS	2.2	2.2	2.1	2.1	2.1	2.2	2.2	2.1	2.2	2.2	2.2	2.4	2.2	2.2	
13	2.6	2.3	2.3	2.6	4.1	3.4	3.6	2.5	2.4	2.8	2.9	ZS	2.6	3.0	2.8	3.1	2.6	3.1	2.9	2.7	2.8	2.6	2.4	2.4	2.8	2.8	
14	2.8	3.0	2.8	2.7	3.2	2.6	2.9	3.0	3.7	3.2	4.0	ZS	3.4	2.3	2.3	2.8	3.4	3.1	2.4	2.5	2.8	2.4	3.3	3.3	3.0	3.0	
15	2.8	2.6	2.4	2.6	2.5	3.0	2.8	2.6	2.5	2.4	2.4	ZS	2.1	2.2	2.1	2.1	2.0	2.0	2.3	2.1	2.1	2.2	2.1	2.5	2.4	2.4	
16	2.4	2.3	2.2	2.3	2.5	2.2	2.1	2.1	2.0	2.0	2.0	ZS	2.1	1.9	2.0	1.9	2.0	2.4	2.5	2.3	2.5	2.6	2.2	2.2	2.2	2.2	
17	2.0	2.1	2.3	2.3	2.0	1.9	2.6	1.9	1.9	1.9	1.9	ZS	1.9	1.9	1.9	1.9	1.9	1.9	3.0	2.6	2.6	3.2	2.7	2.3	2.2	2.2	
18	2.3	2.3	2.2	2.2	2.0	2.0	2.0	2.0	1.9	2.0	3.1	ZS	2.2	2.1	2.0	2.1	2.0	2.1	2.4	2.4	2.2	2.2	2.5	2.9	2.2	2.2	
19	2.5	2.3	2.3	2.2	2.0	2.1	2.3	2.1	2.3	2.1	2.2	ZS	2.1	2.0	2.2	2.2	2.6	2.3	2.1	2.0	2.1	2.1	2.1	2.1	2.2	2.2	
20	2.2	2.5	2.2	2.3	2.3	2.0	2.1	2.1	2.5	2.7	2.4	ZS	2.3	2.0	2.0	2.0	2.1	2.1	2.1	2.2	2.2	2.2	2.3	5.2	2.3	2.3	
21	4.2	4.0	4.0	3.3	4.0	3.5	2.6	2.4	2.2	2.2	2.2	ZS	2.2	2.4	2.3	2.1	2.0	2.3	1.9	2.0	1.9	1.9	1.9	1.9	2.6	2.6	
22	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	ZS	1.9	1.9	1.9	1.9	1.9	2.0	2.1	2.0	2.0	2.0	2.3	2.8	2.0	2.0	
23	2.3	2.6	2.2	2.2	2.3	2.6	2.3	2.3	2.8	2.6	2.4	ZS	2.1	2.0	2.0	2.0	2.0	2.0	2.1	2.3	2.3	2.3	2.2	2.1	2.3	2.3	
24	2.1	2.1	2.2	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2	ZS	2.4	2.4	2.2	2.4	2.1	2.0	1.9	1.9	1.9	1.9	1.9	1.9	2.1	2.1	
25	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.1	2.1	2.5	2.1	ZS	2.1	2.0	2.2	2.5	2.4	3.9	2.5	2.2	2.7	2.4	2.3	2.1	2.2	2.2	
26	2.1	2.1	2.1	2.1	2.2	2.4	2.7	2.8	2.4	2.2	2.0	ZS	2.0	2.0	2.0	2.0	2.0	2.1	2.7	2.1	2.0	2.0	2.0	2.0	2.2	2.2	
27	2.8	2.4	2.4	2.5	2.3	2.8	2.7	2.7	2.7	2.4	2.5	ZS	2.3	2.1	2.2	2.2	2.5	2.4	2.3	2.3	2.3	2.4	3.0	3.6	2.5	2.5	
28	2.2	2.1	2.0	2.0	2.0	1.9	2.4	2.4	3.4	2.9	2.4	ZS	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.5	2.1	2.0	1.9	1.9	2.2	2.2	
29	1.9	1.9	2.0	1.9	1.9	2.0	2.0	2.0	2.4	2.2	2.1	ZS	2.0	2.0	2.0	2.2	2.3	2.2	2.3	2.3	2.2	2.2	2.7	2.1	2.1	2.1	
30	2.6	2.2	2.2	2.4	2.4	2.4	2.4	2.5	2.4	2.7	2.2	ZS	2.1	2.0	2.0	PF	PF	PF	PF	PF	PF	PF	PF	PF	2.3	2.3	
1	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	---	---
2	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	2.0	1.8	1.8	1.8	1.9	1.8	1.9	1.9	1.9	1.9	1.9
3	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	ZS	1.9	1.9	1.9	1.9	1.9	1.9	CAL	CAL	NS	NS	NS	NS	NS	NS	NS
	2.4	2.3	2.3	2.2	2.3	2.3	2.4	2.3	2.4	2.3	2.4	2.0	2.2	2.1	2.1	2.1	2.1	2.3	2.2	2.2	2.2	2.2	2.3	2.4			
Diurnal Average																											
ZS - Zero/Span Calibration														CAL - Multipoint Calibration							M - Maintenance				DAF - Data Acquisition Failure		
AF - Analyzer Failure														UO - Unstable Operation							PF - Power Failure				NS - Not in Service		
Maximum Value in Table: 5.2				First Occurrence on Day 20 Hour 24				Frequency: 1				Hours in Service: 633															
Minimum Value in Table: 1.8				First Occurrence on Day 2 Hour 17				Frequency: 4				Hours of Data: 555															
Maximum Daily Value: 3.0				First Occurrence on Day 14				Minimum Daily Value: 1.9				Hours of Missing Data: 78															
Maximum Diurnal Value: 2.4				First Occurrence at Hour 24				Minimum Diurnal Value: 2.0				Hours of Calibration: 30															
Monthly Mean: 2.26				Percentiles: P10 = 1.92 Q1 = 1.98 Median = 2.14 Q3 = 2.40 P90 = 2.76				First Occurrence on Day 2				Percent Operational Time: 92.42															
								First Occurrence at Hour 12																			

Bentley CH4 Hourly Averages

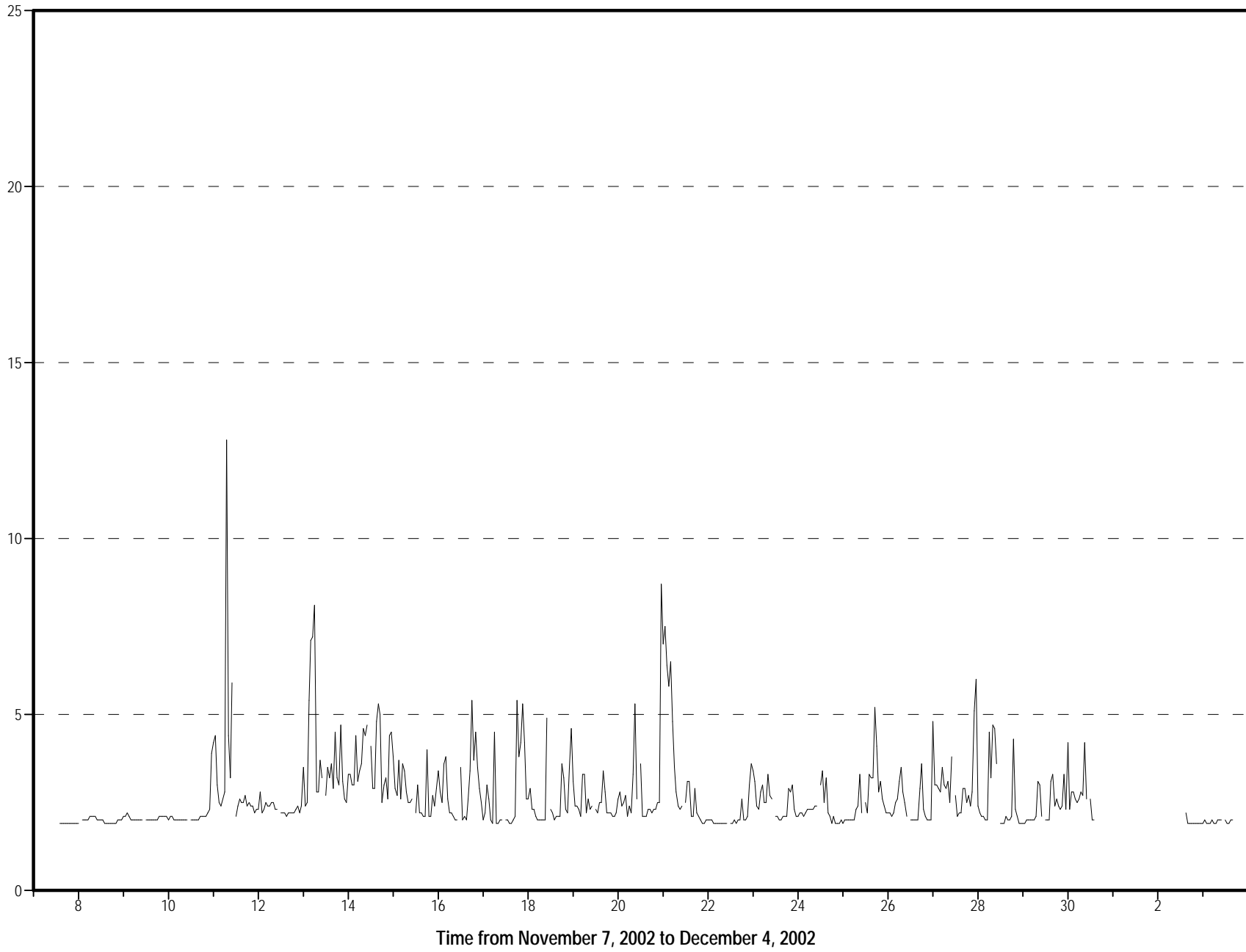


**Parkland Airshed Management Zone
Summary of Maximum Value in each Hour**

AMS 110 (Bentley)
November 2002
CH4 (ppm)

Day	Hourly Period Ending At																								Daily Average
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.90
8	1.9	--	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	1.98
9	2.1	2.1	2.2	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	--	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.04
10	2.0	2.1	2.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	--	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.2	2.3	3.9	2.13
11	4.2	4.4	3.0	2.5	2.4	2.6	2.8	12.8	4.4	3.2	5.9	--	2.1	2.4	2.6	2.5	2.5	2.7	2.4	2.5	2.4	2.4	2.2	2.3	3.36
12	2.3	2.8	2.2	2.3	2.5	2.4	2.4	2.5	2.5	2.3	2.3	--	2.2	2.2	2.2	2.1	2.2	2.2	2.2	2.2	2.3	2.4	2.2	2.4	2.32
13	3.5	2.4	2.5	5.4	7.1	7.2	8.1	2.8	2.8	3.7	3.2	--	2.7	3.5	3.2	3.6	2.9	4.5	3.2	3.0	4.7	3.1	2.6	2.5	3.83
14	3.3	3.3	3.0	3.0	4.4	3.1	3.4	3.6	4.6	4.4	4.7	--	4.1	2.9	2.9	4.8	5.3	5.0	2.5	3.0	3.2	2.6	4.4	4.5	3.74
15	3.8	2.9	2.7	3.7	2.6	3.6	3.4	2.8	2.5	2.5	2.6	--	2.2	3.0	2.2	2.2	2.1	2.1	4.0	2.1	2.1	2.7	2.4	2.9	2.74
16	3.4	2.8	2.5	3.6	3.8	2.6	2.2	2.2	2.1	2.0	2.0	--	3.5	2.0	2.1	2.0	2.6	3.4	5.4	3.7	4.5	3.5	2.9	2.5	2.93
17	2.0	2.2	3.0	2.6	2.0	1.9	4.5	1.9	1.9	2.0	2.0	--	2.0	2.0	1.9	1.9	2.0	2.1	5.4	3.8	4.2	5.3	4.2	2.6	2.76
18	2.6	2.9	2.3	2.3	2.1	2.0	2.0	2.0	2.0	2.0	4.9	--	2.3	2.2	2.0	2.1	2.1	2.1	3.6	3.2	2.3	2.2	3.5	4.6	2.58
19	3.1	2.4	2.4	2.3	2.1	3.3	3.3	2.2	2.6	2.3	2.4	--	2.3	2.2	2.5	2.5	3.4	2.8	2.2	2.2	2.2	2.1	2.1	2.2	2.48
20	2.6	2.8	2.4	2.5	2.7	2.1	2.4	2.2	3.3	5.3	2.6	--	3.6	2.1	2.1	2.1	2.3	2.3	2.2	2.3	2.3	2.5	2.5	8.7	2.87
21	7.0	7.5	6.4	5.8	6.5	4.8	3.5	2.8	2.4	2.3	2.4	--	2.5	3.1	3.1	2.1	2.1	2.9	2.2	2.1	2.0	1.9	1.9	2.0	3.45
22	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	--	1.9	1.9	2.0	1.9	2.0	2.0	2.6	2.0	2.0	2.1	3.0	3.6	2.10
23	3.4	3.1	2.4	2.3	2.8	3.0	2.5	2.5	3.3	2.7	2.6	--	2.1	2.1	2.0	2.0	2.1	2.1	2.1	2.9	2.8	3.0	2.3	2.1	2.53
24	2.1	2.2	2.2	2.1	2.2	2.3	2.3	2.3	2.3	2.4	2.4	--	3.0	3.4	2.5	3.2	2.2	2.1	1.9	2.1	1.9	1.9	1.9	2.0	2.30
25	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.3	2.4	3.3	2.2	--	2.5	2.2	3.3	3.2	3.2	5.2	4.1	2.8	3.1	2.6	2.4	2.2	2.65
26	2.2	2.2	2.1	2.2	2.5	2.6	3.1	3.5	2.8	2.5	2.1	--	2.0	2.0	2.0	2.0	2.0	2.9	3.6	2.3	2.1	2.0	2.0	2.0	2.38
27	4.8	3.0	3.0	2.9	2.8	3.5	3.0	2.9	3.1	2.5	3.8	--	2.7	2.1	2.2	2.2	2.9	2.9	2.5	2.7	2.4	2.8	5.1	6.0	3.12
28	2.4	2.2	2.1	2.1	2.0	2.0	4.5	3.2	4.7	4.6	3.6	--	1.9	1.9	1.9	2.1	2.0	2.0	2.1	4.3	2.3	2.1	1.9	1.9	2.60
29	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.1	3.1	3.0	2.1	--	2.0	2.0	2.0	3.1	3.3	2.4	2.6	2.4	2.3	2.4	3.3	2.3	2.36
30	4.2	2.3	2.8	2.8	2.6	2.5	2.6	2.8	2.7	4.2	2.6	--	2.6	2.0	2.0	--	--	--	--	--	--	--	--	--	2.76
1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	---
2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2.2	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.93
3	1.9	2.0	1.9	1.9	1.9	2.0	1.9	1.9	2.0	2.0	2.0	--	2.0	1.9	1.9	2.0	2.0	--	--	--	--	--	--	--	1.95
Diurnal Average																									
ZS - Zero/Span Calibration CAL - Multipoint Calibration M - Maintenance DAF - Data Acquisition Failure AF - Analyzer Failure UO - Unstable Operation SP - Spurious/Invalid Data NS - Not in Service																									
Maximum Value in Table: 12.8 First Occurrence on Day 11 Hour 8 Frequency: 1 Minimum Value in Table: 1.9 First Occurrence on Day 7 Hour 15 Frequency: 64 Maximum Daily Value: 3.8 First Occurrence on Day 13 Minimum Daily Value: 1.9 First Occurrence on Day 7 Maximum Diurnal Value: 3.0 First Occurrence at Hour 24 Minimum Diurnal Value: 2.0 First Occurrence at Hour 12 Monthly Mean: 2.65 Percentiles: P10 = 1.94 Q1 = 2.02 Median = 2.26 Q3 = 2.86 P90 = 3.73																									

Bentley CH4 Maximum Values

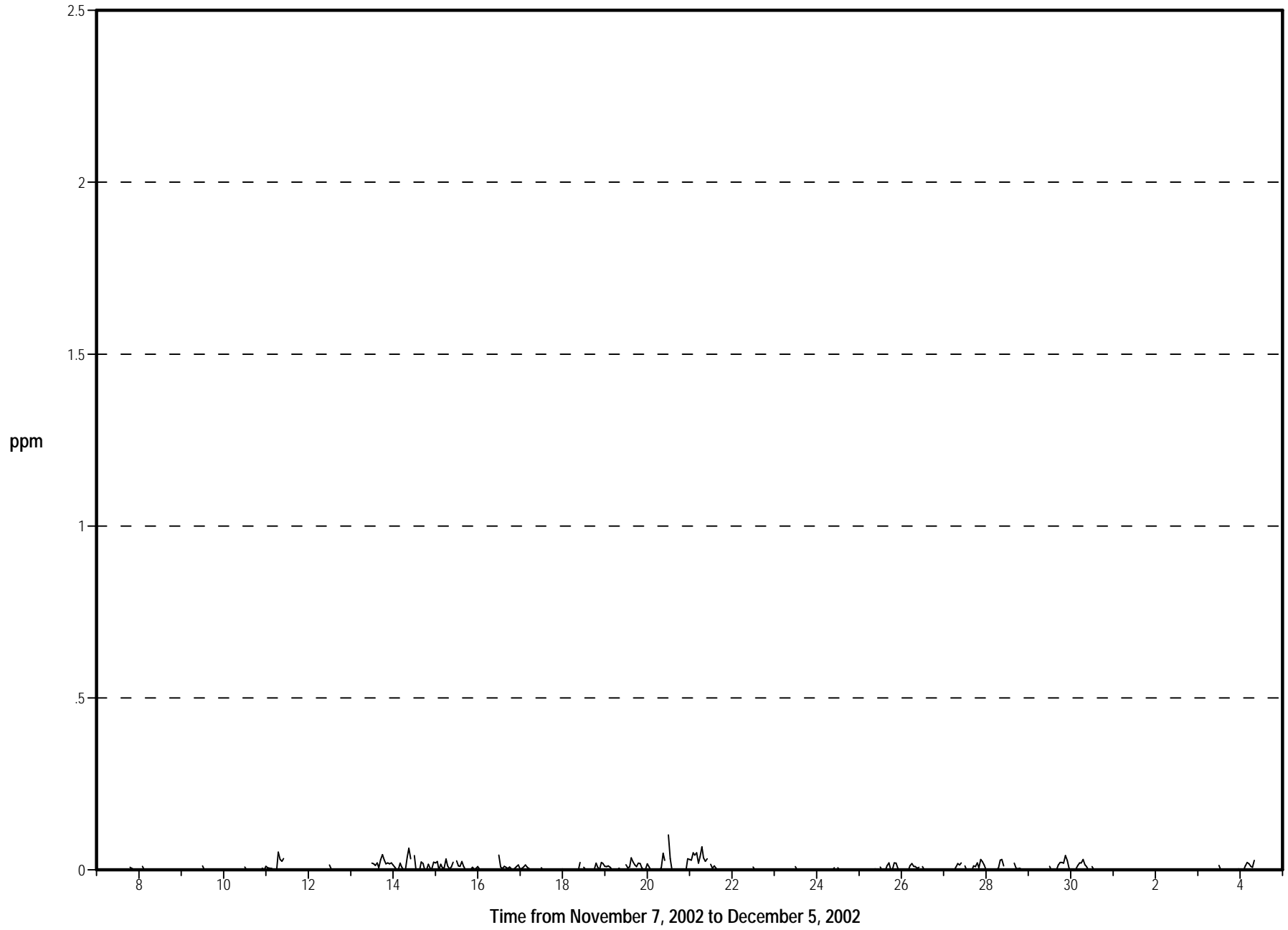


**Parkland Airshed Management Zone
Summary of Hourly Averages**

AMS 110 (Bentley)
November 7, 2002 to December 5, 2002
NH3 (ppm)

Day	Hourly Period Ending At																								Daily Average																				
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24																					
7	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	CAL	CAL	CAL	CAL	CAL	CAL	.01	.00	.00	.00	.00	.00																				
8	.00	ZS	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00																				
9	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	ZS	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00																				
10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	ZS	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00																				
11	.01	.01	.01	.00	.00	.00	.00	.05	.03	.03	.03	ZS	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01																				
12	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	ZS	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00																				
13	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	ZS	.02	.02	.01	.02	.01	.03	.04	.03	.02	.02	.02	.02	.01																				
14	.01	.01	.00	.00	.02	.01	.00	.00	.04	.06	.03	ZS	.04	.00	.00	.00	.02	.02	.00	.00	.02	.00	.00	.02	.01																				
15	.02	.02	.00	.02	.01	.01	.03	.01	.00	.01	.02	ZS	.03	.01	.01	.02	.01	.00	.00	.00	.00	.01	.00	.00	.01																				
16	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	ZS	.04	.01	.00	.01	.01	.00	.01	.00	.00	.01	.01	.01	.01																				
17	.00	.00	.01	.01	.01	.00	.00	.00	.00	.00	.00	ZS	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00																				
18	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	ZS	.01	.00	.00	.00	.00	.00	.00	.02	.01	.00	.02	.02	.00																				
19	.01	.01	.01	.01	.00	.00	.00	.00	.01	.00	.00	ZS	.02	.01	.01	.04	.02	.01	.01	.02	.02	.01	.00	.00	.01																				
20	.02	.01	.00	.00	.00	.00	.00	.00	.01	.05	.03	ZS	.10	.03	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03	.01																				
21	.03	.03	.05	.04	.05	.02	.04	.07	.04	.03	.03	ZS	.02	.01	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02																				
22	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	ZS	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00																				
23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	ZS	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00																				
24	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	ZS	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00																				
25	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	ZS	.01	.00	.00	.00	.01	.02	.00	.00	.02	.02	.00	.00	.00																				
26	.00	.00	.00	.00	.00	.01	.02	.01	.01	.01	.01	ZS	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00																				
27	.00	.00	.00	.00	.00	.00	.00	.01	.02	.01	.02	ZS	.01	.00	.00	.00	.00	.01	.01	.01	.02	.01	.03	.02	.01																				
28	.00	.00	.00	.00	.00	.00	.00	.01	.03	.03	.01	ZS	.00	CAL	CAL	CAL	.02	.01	.00	.01	.00	.00	.00	.00	.01																				
29	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	ZS	.01	.00	.00	.00	.00	.01	.02	.02	.02	.04	.03	.00	.01																				
30	.00	.00	.00	.00	.01	.02	.02	.03	.02	.01	.00	ZS	.01	.00	.00	PF	PF	PF	PF	PF	PF	PF	PF	PF	.01																				
1	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	---																				
2	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00																				
3	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	ZS	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00																				
4	.00	.00	.00	.01	.02	.02	.01	.01	.03	CAL	CAL	CAL	CAL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	.01																				
	.00	.00	.00	.00	.00	.00	.00	.01	.01	.01	.01	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.01																					
Diurnal Average																																													
ZS - Zero/Span Calibration CAL - Multipoint Calibration M - Maintenance DAF - Data Acquisition Failure AF - Analyzer Failure UO - Unstable Operation PF - Power Failure NS - Not in Service																																													
Maximum Value in Table: .10												First Occurrence on Day 20 Hour 13												Frequency: 1																					
Minimum Value in Table: .00												First Occurrence on Day 7 Hour 23												Frequency: 345																					
Maximum Daily Value: 0.0												First Occurrence on Day 21												Minimum Daily Value: .00											First Occurrence on Day 2										
Maximum Diurnal Value: .02												First Occurrence at Hour 13												Minimum Diurnal Value: .00											First Occurrence at Hour 12										
Monthly Mean: .01												Percentiles: P10 = 0.00 Q1 = 0.00 Median = 0.00 Q3 = 0.01 P90 = 0.02													Hours in Service: 648																				
																									Hours of Data: 563																				
																									Hours of Missing Data: 85																				
																									Hours of Calibration: 37																				
																									Percent Operational Time: 92.59																				

Bentley NH3 Hourly Averages

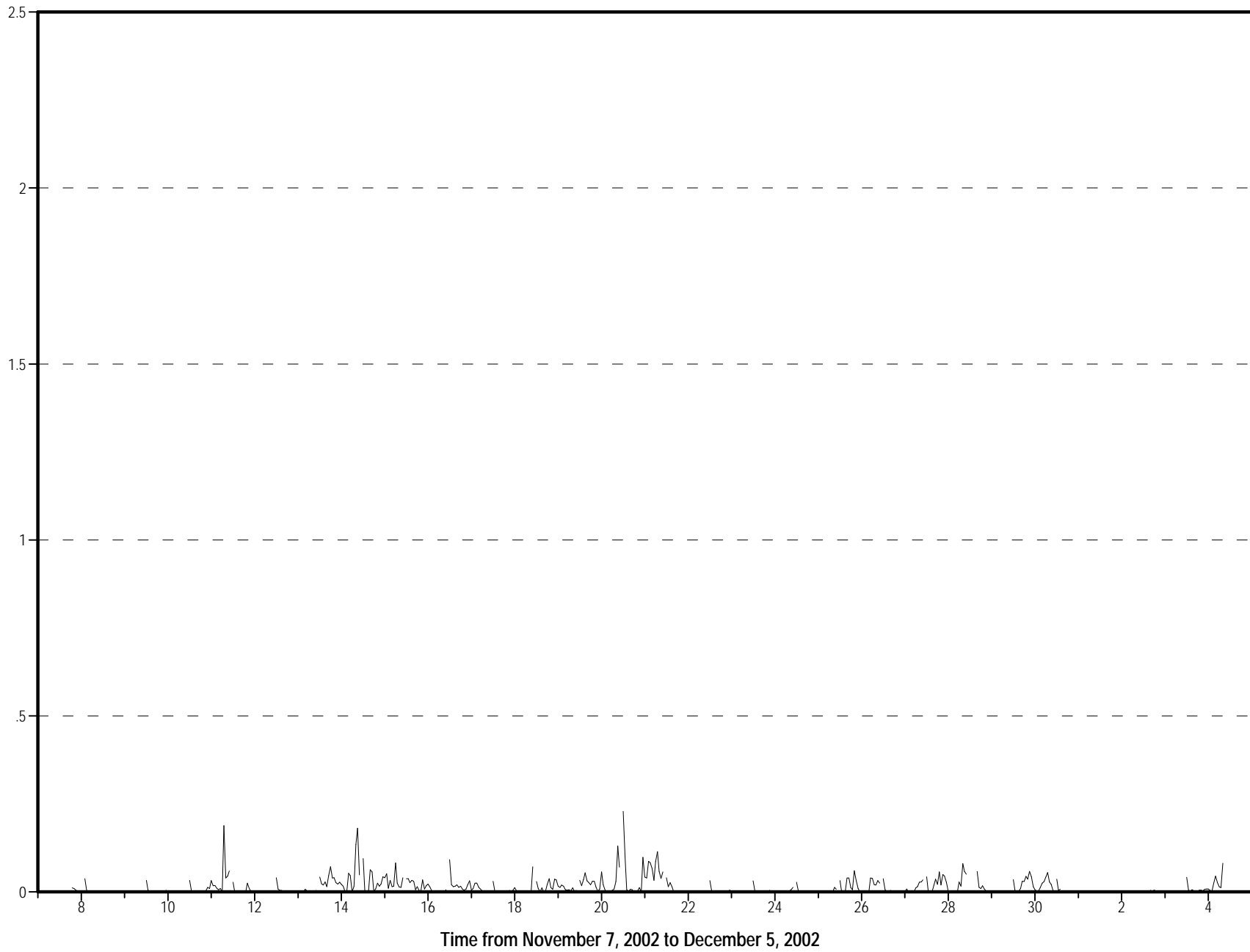


Parkland Airshed Management Zone
Summary of Maximum Value in each Hour

AMS 110 (Bentley)
 November 2002
 NH3 (ppm)

Day	Hourly Period Ending At																								Daily Average	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	.01	.01	.01	.00	.00	.01	
8	.00	--	.04	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
9	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	--	.03	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	--	.03	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.01	.00	.00
11	.03	.02	.02	.01	.01	.01	.00	.19	.04	.05	.06	--	.03	.00	.00	.00	.00	.00	.00	.00	.03	.01	.00	.00	.00	.02
12	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	--	.04	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
13	.00	.00	.00	.00	.01	.00	.00	.00	.00	.00	.00	--	.04	.02	.02	.03	.02	.05	.07	.04	.04	.03	.02	.03	.00	.02
14	.02	.02	.00	.00	.05	.05	.00	.02	.14	.18	.05	--	.10	.00	.00	.00	.06	.06	.00	.01	.03	.02	.02	.04	.00	.04
15	.04	.05	.01	.03	.02	.02	.08	.03	.01	.01	.04	--	.04	.04	.03	.03	.03	.01	.02	.00	.00	.03	.01	.02	.00	.03
16	.02	.01	.00	.00	.00	.00	.00	.00	.00	.00	.01	--	.09	.02	.02	.02	.02	.02	.01	.02	.01	.01	.01	.02	.03	.01
17	.01	.01	.03	.03	.01	.01	.00	.00	.00	.00	.00	--	.03	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.01
18	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.07	--	.03	.01	.00	.01	.00	.00	.02	.04	.01	.01	.04	.03	.00	.01
19	.02	.01	.02	.02	.01	.01	.01	.00	.01	.00	.00	--	.03	.02	.04	.05	.03	.03	.02	.03	.03	.01	.00	.01	.00	.02
20	.06	.02	.01	.00	.00	.00	.01	.01	.03	.13	.07	--	.23	.10	.01	.00	.01	.01	.00	.00	.00	.01	.00	.10	.00	.03
21	.04	.04	.09	.08	.07	.03	.09	.11	.06	.04	.06	--	.04	.02	.03	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03
22	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	--	.03	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00
23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	--	.03	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
24	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.01	--	.03	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.01	--	.03	.00	.00	.00	.04	.04	.01	.01	.06	.03	.01	.00	.00	.01
26	.00	.00	.00	.00	.00	.04	.04	.02	.02	.03	.03	--	.04	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
27	.00	.01	.00	.00	.00	.00	.01	.02	.03	.03	.03	--	.04	.00	.00	.00	.02	.04	.02	.06	.02	.05	.05	.03	.00	.02
28	.00	.00	.00	.00	.00	.00	.03	.02	.08	.06	.05	--	.03	--	--	--	.06	.01	.01	.02	.01	.00	.00	.00	.00	.02
29	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	--	.04	.00	.00	.00	.01	.03	.03	.04	.04	.06	.04	.02	.00	.01
30	.01	.00	.00	.01	.03	.03	.04	.06	.03	.02	.00	--	.04	.01	.01	--	--	--	--	--	--	--	--	--	.00	.02
1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	---
2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	.00	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00
3	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	--	.04	.01	.00	.01	.00	.00	.00	.01	.01	.00	.01	.01	.00	.00
4	.01	.00	.00	.02	.05	.03	.01	.01	.08	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	.02
Diurnal Average																										
ZS - Zero/Span Calibration CAL - Multipoint Calibration M - Maintenance DAF - Data Aquisition Failure AF - Analyzer Failure UO - Unstable Operation SP - Spurious/Invalid Data NS - Not in Service																										
Maximum Value in Table: .23 First Occurrence on Day 20 Hour 13 Frequency: 1 Minimum Value in Table: .00 First Occurrence on Day 7 Hour 24 Frequency: 222 Maximum Daily Value: .04 First Occurrence on Day 14 Minimum Daily Value: .00 First Occurrence on Day 22 Maximum Diurnal Value: .05 First Occurrence at Hour 13 Minimum Diurnal Value: .00 First Occurrence at Hour 12 Monthly Mean: .01 Percentiles: P10 = 0.00 Q1 = 0.00 Median = 0.00 Q3 = 0.02 P90 = 0.04																										

Bentley NH3 Maximum Values



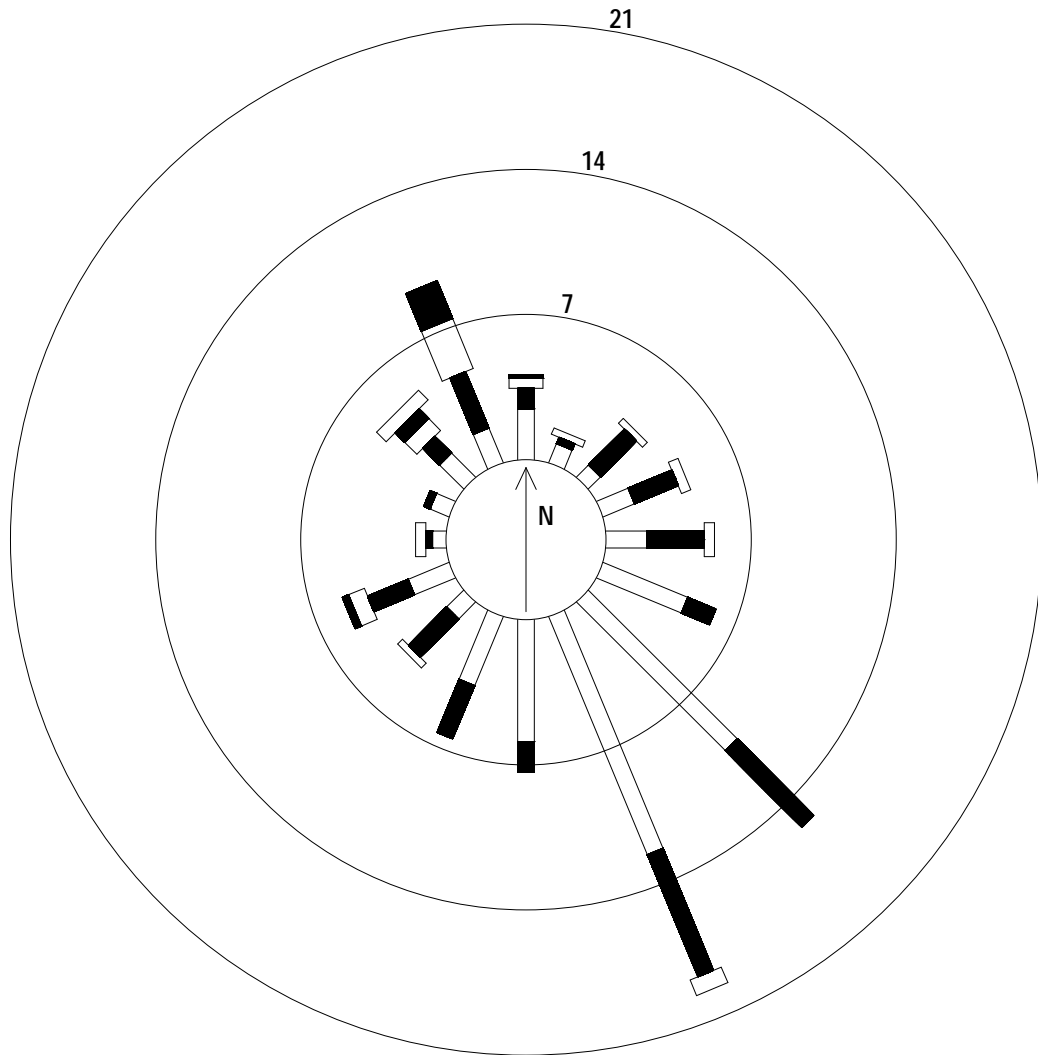
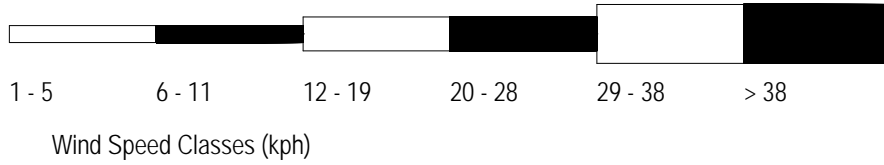
**Parkland Airshed Management Zone
Summary of Hourly Averages**

AMS 110 (Bentley)
November 6, 2002 to December 5, 2002
Wind Direction, Wind Speed (kph), 10 m

Day	Hourly Period Ending At																								Daily Average		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
6	SE2	SSE1	NE1	ENE2	SSW2	ESE2	NE2	ENE3	ESE1	SSE2	S5	SE4	S4	SSE5	NNW3	SE0	SW2	SSE3	NE0	SW3	SSW5	SW1	NNW5	N4	SSE1		
7	SSE3	SSE2	SE3	SE4	ESE2	NNW1	SE3	ESE4	SE1	SSE1	WSW2	NNE6	SSE4	SSE3	SSE4	E5	E9	E12	E13	E15	E10	E7	ENE8	E8	E5		
8	E10	ESE8	ESE10	ESE9	ESE7	E11	E9	E7	ENE10	ENE12	ENE12	ENE11	ENE11	ENE12	ENE10	ENE11	ENE11	ENE10	NE12	NE10	NE8	NE7	NE7	NE6	ENE9		
9	NE7	NE8	ENE6	ENE6	*4	*4	*4	*6	*6	*5	*4	E5	*4	*5	*6	ENE7	ENE5	E6	ENE4	NNE5	NNE6	NNE5	N5	N9	NE5		
10	NNW8	NNW5	N5	NE7	NE8	NE7	NE4	NE6	NE7	ENE6	ENE3	E5	SE4	ESE4	ESE5	ESE5	ESE4	ESE3	SE4	SE5	SE7	SSE9	SSE11	S9	E3		
11	SSW8	SW8	SSE3	SSE5	SSE3	N2	SSE1	SE4	SSE3	SE2	S3	SSW5	WSW2	NE6	NNW2	NNE5	WSW1	ESE2	NNE3	ESE4	E10	ENE6	ENE1	ENE4	SE2		
12	ESE4	E11	ESE6	ESE5	SE4	SE5	ESE7	ESE6	SE5	SSE7	SSE9	SSE11	SSE13	SSE12	SSE10	SE7	ESE4	E6	E10	E7	SSE8	SSE1	E3	WNW2	SE6		
13	NNW4	NNW6	NW4	ENE0	SSE0	WSW1	ESE3	NNE3	N4	E0	WSW3	S3	SSE3	S3	SSE4	S2	E3	SSE3	SSE4	SE4	SSW6	SSE4	SSE3	S3	SSE1		
14	SSW1	N3	NNE2	N2	ESE0	NE1	NNW2	ENE0	SSE1	SE2	W1	S1	SSW3	SSW5	SSW4	S2	SSE3	ENE1	N4	N2	SE2	E2	S4	SSE3	SSE1		
15	SE3	SE3	E1	SE1	SSE1	SE4	SSE4	SE5	SSE5	SSE5	SSE5	S7	SSE6	SSE8	SSE7	SSE5	SE6	SE6	SE5	SE6	SE5	SE3	SE6	SE4	SSE5		
16	SE5	SE7	SE7	ESE7	SE6	SE5	SE6	SE7	SE10	SSE11	SSE9	SSE9	S9	SE8	SSE15	SSE14	S10	SSW9	SW11	SW8	SSW5	SSE1	SE3	SE5	SSE7		
17	SE5	SSE5	SSE2	NNW10	NW10	WNW8	WSW11	WSW19	WSW19	WSW19	WSW21	WSW19	W17	W12	WSW14	WSW10	WSW7	W10	SW9	SSW8	SW7	SSW6	S3	SSE5	WSW9		
18	SE1	SSE6	SE4	S4	WSW11	WSW8	S2	E1	ESE2	ESE1	S2	ESE4	SSE3	ESE4	ESE4	SSE4	ESE5	ESE5	SSE3	SE4	SE5	SE5	S5	SSE5	SSE3		
19	SSE5	SSE7	SE6	SE6	SSW5	SSW7	S4	SE6	SE5	S4	WSW6	WSW5	SE5	SSE3	SE4	SSE6	SE5	SE4	SSE5	SSE5	SSE4	SE5	SE6	SE6	SSE4		
20	SSE4	SE3	SSW3	SSW7	SSW2	NNW9	WNW1	ENE3	SSE3	SSE3	SE3	E4	S3	E4	E9	E9	SE3	ESE4	ESE4	SE2	SE1	SE2	SE2	S2	SE2		
21	SE5	SSE3	S1	SSE5	SSE5	N1	SSE4	S4	SSE6	SSE6	SSE6	SSE6	SSE6	SSE6	SSW7	SSE5	SSW3	WSW4	SSW7	WSW11	SSE4	SW17	WSW22	NNW9	N10	SSW4	
22	N3	N15	NNW16	N20	NNW21	NNW15	NNW19	NNW18	NW23	NW26	NW33	NW37	NW36	NW32	NNW23	NNW20	NW12	NNW8	NW10	NNW10	NNW7	N9	NNW2	NW3	NNW17		
23	N6	NE0	N4	N1	NW2	NW2	NNW3	N5	SSW0	WNW1	NW3	NNW6	NNW5	NNW3	ENE5	E5	E3	ESE4	SE4	SSE3	S2	SE5	SE6	SE8	NE1		
24	SE9	SSE10	SSE10	SSE10	SSE9	SSE12	SSE10	SSE9	SSE10	S7	S8	SSW9	SW10	SW13	SW9	SW8	SW6	NW19	NNW21	NW23	NNW20	NNW22	NNW23	NNW24	W3		
25	NNW23	NNW18	NNW18	NNW19	NNW17	NNW13	N8	N2	SE3	SSE5	SSE6	S8	SSW9	SSW8	SW6	SSW2	S4	SSW5	SW5	SSW4	SSE3	S2	NW4	NW2	NW3		
26	NNW6	W3	WNW2	NW5	SE1	SSE3	SSE5	SSE4	S5	SSW5	WSW6	WSW8	NW10	NW11	W10	WSW9	SW8	SSW3	W2	NNW9	NNW10	NNW11	NNW9	NNW9	WNW4		
27	WSW2	WSW2	WSW2	S2	WSW1	SSW5	S5	SSE5	S6	S5	S5	SSW6	SW7	SW10	WSW10	SW6	S5	SSE6	SSE6	SSE5	SSE5	S4	S5	SSW4	SSW4		
28	SW3	WSW1	SSW4	W18	N16	N12	NE1	S3	S5	SSE3	WSW4	NNW14	NNW23	NNW24	NNW20	NNW11	NW8	NW4	NNW6	WNW2	NW7	NNW8	NNW15	NNW16	NNW8		
29	NNW18	NNW18	NW16	NW20	NNW17	NNW12	N7	WNW3	SSW3	WNW6	NW5	NW12	NW12	NW10	W5	SW5	SE4	SSE4	SSE4	SE4	SSE5	SSE4	S4	SSW7	NW5		
30	SSW7	SW5	SSW4	SSE4	SSE4	SSE3	SSE4	SSE6	S6	SSW7	SSW7	SW11	SW7	WSW8	WSW10	**	**	**	**	**	**	**	**	**	SSW5		
1	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	---		
2	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	NNE16	NNE13	NE14	NE10	NE9	ENE7	E7	ESE4	ESE4	NE8
3	SE4	SE5	ESE6	SE6	SE6	SE6	SE5	SE5	SE5	SE5	SSE8	SSE8	SSE8	SSE7	SSE8	SSE9	SE7	SE6	SE8	SSE8	SE6	SE7	SE8	SSE8	SE7		
4	SE8	SE7	SSE*	SSE*	SSE2	SSE4	SSE2	SSW*	SSE*	SSE1	S3	+	+	+	+	+	+	+	+	+	+	+	+	+	SSE4		
Diurnal Average																											
C - Calibration * - Instrument failure + - Not in service																											
Maximum Speed in Table: 37 First Occurrence on Day 22 Hour 12 Frequency: 1												Hours in Service: 683															
Minimum Speed in Table: 0 First Occurrence on Day 6 Hour 16 Frequency: 9												Hours of Speed Data: 631						Speed Percent Operational Time: 92.39									
Maximum Daily Speed: 17.0 First Occurrence on Day 22 Minimum Daily Speed: 0.6 First Occurrence on Day 14												Hours of Direction Data: 625						Direction Percent Operational Time: 91.51									
Maximum Diurnal Speed: 2.4 First Occurrence at Hour 11 Minimum Diurnal Speed: 0.6 First Occurrence at Hour 22												Hours of Velocity Data: 621						Velocity Percent Operational Time: 90.92									
Monthly Average Velocity: 0.4 kph 150 degrees																											

Parkland Airshed Management Zone

Bentley - Wind Speed - November 6, 2002 00:00 to December 4, 2002 11:00



Parkland Airshed Management Zone
Summary of Maximum Value in each Hour

AMS 110 (Bentley)
 November 2002
 Wind Speed (kph)

Day	Hourly Period Ending At																								Daily Average
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
6	5	8	8	6	6	5	6	8	5	6	8	8	8	8	7	6	5	6	7	10	12	14	12	8	7.6
7	7	5	7	8	9	8	7	7	5	5	9	10	9	7	9	11	12	14	16	19	15	13	19	13	10.2
8	13	12	15	13	13	16	14	12	17	18	17	15	16	19	15	17	17	15	19	14	12	11	13	11	14.8
9	12	10	10	10	8	6	5	8	7	7	7	10	6	8	9	9	8	7	9	8	8	8	8	12	8.4
10	11	6	10	11	13	10	7	9	11	10	7	8	7	6	7	7	6	6	6	8	10	11	14	13	8.9
11	12	12	7	8	6	7	6	6	7	5	6	10	10	12	9	11	6	5	9	8	14	9	5	8	8.3
12	9	14	12	8	7	10	10	8	9	10	14	15	18	15	15	11	7	13	13	14	12	6	5	4	10.8
13	7	11	8	5	7	7	5	6	7	5	7	6	5	8	8	9	6	7	8	6	10	6	5	5	6.8
14	5	8	9	8	5	4	6	5	5	4	4	7	8	6	5	7	5	9	9	5	6	8	5	5	6.2
15	6	5	5	6	4	6	7	7	6	7	11	11	9	11	11	8	8	8	10	8	9	7	9	10	7.9
16	9	10	11	10	8	8	10	10	13	14	13	14	14	13	19	19	24	14	17	14	10	4	6	9	12.2
17	9	8	6	23	13	17	17	25	21	22	26	23	23	16	20	14	9	14	12	10	10	9	5	8	15.0
18	7	11	8	8	14	11	9	7	6	4	5	7	5	6	7	8	7	7	8	8	7	8	10	8	7.8
19	7	11	9	9	8	12	9	8	8	7	14	11	8	6	7	9	7	7	9	7	6	8	9	7	8.5
20	7	6	13	12	9	19	12	7	8	5	6	8	7	9	15	14	10	5	6	7	4	8	8	7	8.8
21	13	9	5	8	10	6	6	8	8	9	9	7	9	13	8	11	10	13	15	9	25	31	23	13	11.6
22	7	25	21	33	29	26	25	27	31	35	42	52	50	44	31	33	17	11	15	13	9	12	12	7	25.3
23	9	4	6	5	4	7	5	7	5	3	7	9	9	6	9	7	6	6	6	6	5	7	8	10	6.5
24	10	12	12	12	11	14	16	13	12	11	13	13	15	20	14	13	9	31	28	28	25	28	27	31	17.4
25	30	23	23	25	22	15	10	8	7	8	9	11	12	11	9	5	6	8	11	8	6	7	7	5	11.9
26	9	9	4	8	4	5	6	5	8	9	13	12	20	15	15	15	12	6	4	13	12	14	13	13	10.2
27	8	4	5	4	7	7	6	7	8	7	7	9	12	13	14	9	7	8	8	7	7	6	8	6	7.7
28	10	8	9	29	28	16	12	7	8	8	12	23	33	30	27	16	15	8	11	10	10	12	19	21	15.9
29	23	24	21	25	22	15	9	7	6	9	9	18	16	13	9	8	7	6	8	7	8	6	8	11	12.3
30	10	9	7	6	6	5	6	7	10	10	11	18	19	11	13	--	--	--	--	--	--	--	--	--	9.9
1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	---
2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	21	18	18	14	13	11	9	8	6	13.1
3	8	8	10	9	10	8	9	8	8	8	12	10	11	10	11	13	9	10	11	11	8	9	10	10	9.6
4	11	8	--	--	5	6	3	--	--	4	4	--	--	--	--	--	--	--	--	--	--	--	--	--	5.9
	10.1	10.4	10.0	11.9	10.7	10.2	9.0	9.1	9.5	9.3	11.2	13.2	13.8	13.0	12.5	11.9	9.8	10.0	11.0	10.6	10.4	10.3	10.7	10.0	
Diurnal Average																									
ZS - Zero/Span Calibration CAL - Multipoint Calibration M - Maintenance DAF - Data Acquisition Failure AF - Analyzer Failure UO - Unstable Operation SP - Spurious/Invalid Data NS - Not in Service																									
Maximum Value in Table: 52 First Occurrence on Day 22 Hour 12 Frequency: 1 Minimum Value in Table: 3 First Occurrence on Day 23 Hour 10 Frequency: 2 Maximum Daily Value: 25 First Occurrence on Day 22 Minimum Daily Value: 6 First Occurrence on Day 4 Maximum Diurnal Value: 14 First Occurrence at Hour 13 Minimum Diurnal Value: 9 First Occurrence at Hour 7 Monthly Mean: 10.8 Percentiles: P10 = 5.5 Q1 = 6.9 Median = 8.8 Q3 = 12.6 P90 = 18.2																									

Parkland Airshed Management Zone
Summary of Hourly Standard Deviations

AMS 110 (Bentley)
 November 6, 2002 to December 5, 2002
 Wind Direction (degrees), 10 m

Day	Hourly Period Ending At																								Daily Average	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
6	61	81	76	68	51	49	44	57	63	41	20	23	30	16	70	90	64	48	90	80	49	100	37	40	56.2	
7	54	67	33	38	68	84	35	22	75	70	52	27	39	46	55	30	10	6	8	12	16	24	33	18	38.4	
8	15	21	18	24	26	16	16	17	18	19	20	20	19	18	20	20	20	22	15	15	20	18	21	20	19.1	
9	18	18	21	17	AF	AF	AF	AF	AF	AF	AF	14	AF	AF	AF	17	11	11	12	20	17	17	18	19	16.4	
10	11	14	25	22	19	20	23	22	24	22	36	21	28	26	23	21	27	36	30	22	14	13	11	10	21.7	
11	17	13	45	21	49	41	56	27	59	50	38	32	78	40	77	26	98	58	70	34	13	23	81	39	45.2	
12	33	12	21	24	26	26	20	20	29	19	20	17	14	16	19	24	34	26	15	26	18	69	28	31	24.5	
13	21	26	37	101	92	77	28	34	32	93	23	32	28	49	40	67	50	48	31	33	22	19	29	27	43.3	
14	91	52	67	85	94	74	40	96	84	34	85	57	34	21	14	44	51	79	60	82	33	46	35	18	57.3	
15	26	24	80	63	70	18	18	15	14	13	16	15	18	14	13	14	10	11	21	13	23	40	28	41	25.8	
16	30	30	19	15	22	19	16	15	13	12	18	19	25	22	12	14	42	18	13	14	53	70	32	24	23.6	
17	19	14	86	42	12	40	12	5	7	6	7	8	9	11	11	10	16	15	11	11	19	21	32	26	18.8	
18	81	34	47	31	14	9	65	80	69	60	63	38	26	22	32	45	29	19	56	27	14	21	18	29	38.7	
19	33	17	15	21	32	20	42	16	36	35	51	46	25	43	24	21	18	30	18	14	16	13	12	14	25.5	
20	25	48	77	28	74	36	97	68	52	41	26	36	32	49	17	14	58	23	27	63	68	80	70	58	48.6	
21	49	47	81	24	27	83	37	18	15	25	16	36	26	26	33	68	61	26	9	56	16	8	59	25	36.3	
22	28	23	14	24	14	11	10	10	9	10	10	10	10	10	12	11	8	16	17	11	14	21	82	50	18.1	
23	35	103	18	43	45	46	34	15	91	55	24	22	25	51	24	22	13	15	16	32	36	32	13	12	34.3	
24	12	13	12	12	13	12	13	14	14	21	11	17	15	9	14	23	27	28	9	9	10	13	11	14	14.4	
25	14	14	15	13	15	10	24	78	29	17	15	14	14	17	22	31	19	16	42	36	41	73	27	29	26.0	
26	23	50	33	19	57	27	19	29	31	33	19	12	42	16	15	19	13	28	53	10	5	6	11	9	24.1	
27	56	39	33	23	71	18	17	13	11	21	20	15	19	9	11	12	18	15	17	22	16	24	23	28	23.0	
28	58	92	45	48	23	28	89	38	27	50	57	16	17	12	11	14	14	29	22	63	13	14	9	10	33.3	
29	11	9	8	8	8	9	18	48	45	14	21	11	10	12	29	22	14	31	25	23	18	14	29	14	18.8	
30	13	34	30	36	18	33	24	16	18	16	15	13	23	16	8	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	20.9
1	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	---
2	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	19.3
3	37	35	30	25	23	23	27	26	25	25	16	16	15	18	16	13	14	16	13	14	15	13	17	13	20.2	
4	13	15	54	20	37	21	34	87	56	61	17	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	37.7	
	32.7	35.0	38.5	33.1	38.5	32.7	33.0	34.1	36.4	33.2	27.5	22.6	24.8	23.6	24.9	27.3	29.1	26.3	27.7	29.3	23.5	31.1	30.1	24.6		
	Diurnal Average																									
ZS - Zero/Span Calibration AF - Analyzer Failure																										
CAL - Multipoint Calibration UO - Unstable Operation												M - Maintenance PF - Power Failure						DAF - Data Acquisition Failure NS - Not in Service								
Maximum Value in Table: 103				First Occurrence on Day 23 Hour 2				Frequency: 1				Hours in Service: 683														
Minimum Value in Table: 5				First Occurrence on Day 17 Hour 8				Frequency: 2				Hours of Data: 625														
Maximum Daily Value: 57.3				First Occurrence on Day 14				Minimum Daily Value: 14				First Occurrence on Day 24														
Maximum Diurnal Value: 39				First Occurrence at Hour 3				Minimum Diurnal Value: 23				First Occurrence at Hour 12														
Monthly Mean: 30.0				Percentiles: P10 = 11.4 Q1 = 15.2 Median = 22.4 Q3 = 36.8 P90 = 63.3								Hours of Calibration: 0														
												Percent Operational Time: 91.51														

Parkland Airshed Management Zone
Summary of Hourly Averages

AMS 110 (Bentley)
 November 6, 2002 to December 5, 2002
 External Temperature (C), 2 m

Day	Hourly Period Ending At																								Daily Average
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
6	0.0	-0.6	-1.4	-1.2	0.2	-0.2	0.3	0.3	0.7	1.4	1.6	3.0	4.8	6.4	6.9	7.2	8.4	7.1	7.4	8.2	7.4	7.4	6.3	5.6	3.6
7	3.8	3.5	2.8	1.0	1.4	0.1	-0.4	0.6	0.6	3.3	6.3	9.2	8.8	9.0	9.7	7.5	4.7	4.3	3.8	3.4	2.8	1.5	0.9	0.8	3.7
8	0.5	0.2	-0.3	-0.5	-0.6	-0.8	-1.0	-1.1	-2.1	-2.7	-2.9	-2.9	-2.9	-3.1	-3.2	-3.5	-3.9	-4.5	-5.1	-5.8	-6.4	-6.7	-7.0	-7.1	-3.1
9	-7.4	-7.5	-7.6	-7.7	-7.6	-7.5	-7.4	-7.3	-7.3	-6.9	-5.8	-5.4	-4.5	-4.9	-5.2	-5.8	-6.1	-6.4	-6.5	-6.4	-6.5	-6.6	-6.6	-6.8	-6.6
10	-7.3	-7.7	-7.5	-7.8	-8.6	-8.8	-9.2	-9.2	-9.5	-9.2	-8.2	-7.8	-7.2	-7.4	-8.0	-8.0	-8.6	-9.3	-8.8	-8.4	-8.4	-7.7	-7.4	-6.9	-8.2
11	-6.5	-5.8	-7.2	-8.6	-9.2	-10.8	-11.0	-11.3	-8.9	-5.2	-2.2	1.0	3.0	1.4	0.5	1.0	-0.4	-0.7	-0.7	-1.2	-1.9	-2.5	-2.4	-2.4	-3.8
12	-2.9	-4.3	-5.0	-4.6	-4.5	-4.6	-5.8	-6.2	-5.7	-4.0	-3.1	-1.7	-1.3	-1.5	-1.5	-1.9	-2.3	-2.9	-3.0	-3.0	-3.0	-3.2	-3.3	-3.4	-3.4
13	-3.3	-3.0	-3.0	-3.2	-3.5	-3.8	-4.6	-3.8	-3.3	-3.1	-1.8	-0.3	0.2	1.9	2.2	2.5	2.6	1.6	2.3	2.2	2.5	2.0	1.7	0.3	-0.6
14	-2.2	-4.3	-5.6	-5.5	-7.1	-8.1	-9.1	-8.7	-8.4	-4.6	-2.0	2.6	4.8	5.5	4.6	3.4	1.8	1.3	1.9	1.7	1.4	1.6	0.3	0.9	-1.4
15	-0.4	-1.0	-2.4	-3.6	-4.7	-5.5	-5.0	-4.0	-3.4	-2.0	1.3	4.1	5.1	3.8	4.5	4.1	2.0	0.8	-0.5	-0.5	-1.7	-2.7	-1.8	-1.9	-0.6
16	-1.9	-2.0	-2.1	-1.4	-1.3	-0.3	0.4	0.5	0.6	2.0	4.1	4.7	5.4	5.3	5.8	6.4	6.2	4.2	2.9	3.2	3.1	2.8	2.6	2.1	2.2
17	1.2	1.3	1.1	1.8	2.0	2.0	-0.5	1.1	1.0	1.7	3.6	5.7	7.3	7.8	6.3	4.7	4.2	3.1	2.5	1.7	1.5	1.7	1.6	1.8	2.8
18	1.4	0.6	1.1	1.7	1.4	1.5	1.4	2.6	2.8	1.9	1.8	3.5	5.6	6.1	5.8	5.5	3.0	1.1	0.5	0.6	2.7	3.5	3.6	3.7	2.6
19	2.7	2.8	3.3	3.5	5.1	5.0	4.3	4.2	4.5	6.5	7.0	8.7	11.5	12.4	12.1	11.7	8.9	7.8	7.4	8.0	7.3	6.7	6.9	5.8	6.8
20	6.2	6.1	5.8	6.6	8.0	10.1	9.7	8.0	5.2	7.7	10.1	13.5	14.3	15.1	12.4	9.9	6.8	5.2	4.7	2.3	1.7	2.2	0.8	-0.1	7.2
21	0.0	-0.2	-0.7	-0.7	-0.2	-0.2	1.3	1.3	2.4	3.9	5.3	7.8	8.6	8.3	9.0	10.2	10.3	8.6	9.6	9.4	8.9	8.6	8.2	7.0	5.3
22	6.1	6.9	6.8	5.4	4.6	3.0	2.5	1.7	1.8	2.6	3.7	4.4	4.8	4.9	4.6	3.5	1.2	-0.4	-1.4	-1.6	-2.7	-2.7	-4.4	-5.1	2.1
23	-5.0	-7.2	-6.4	-7.9	-8.5	-9.4	-9.1	-8.6	-9.7	-8.2	-5.1	-3.0	-1.7	-0.6	-1.5	-2.4	-4.4	-5.6	-6.5	-8.1	-8.9	-8.8	-8.7	-8.6	-6.4
24	-8.9	-8.8	-8.7	-8.9	-9.3	-9.3	-9.7	-10.0	-9.5	-8.1	-6.6	-4.4	-2.7	-1.1	-0.9	-0.5	0.3	3.6	4.6	4.9	4.6	4.8	4.5	4.3	-3.2
25	4.0	2.9	1.7	0.6	-0.6	-2.1	-3.5	-4.9	-5.8	-3.5	-0.4	1.1	2.5	3.1	2.8	1.8	0.5	-0.5	0.0	0.1	-0.5	0.0	1.0	1.5	0.1
26	2.0	1.3	1.7	1.5	-0.1	-0.9	-0.9	-1.5	-1.2	0.1	2.7	4.4	5.5	6.0	6.6	5.9	4.4	3.7	3.4	4.5	4.6	4.8	5.3	5.4	2.9
27	4.0	3.1	3.7	3.5	3.6	3.0	2.4	2.9	2.3	3.4	4.9	7.1	9.7	11.3	12.0	11.3	9.4	7.9	7.4	6.2	5.7	5.7	6.4	6.0	6.0
28	6.5	7.2	8.6	11.7	9.7	6.5	5.3	4.4	3.6	5.3	8.0	10.4	9.8	9.4	8.9	8.1	6.4	4.4	3.6	1.9	1.5	1.1	1.9	2.0	6.1
29	2.1	1.4	1.0	0.7	0.3	-1.1	-2.1	-2.8	-3.0	-0.9	2.0	3.4	4.5	5.3	4.8	3.8	1.5	0.1	-0.6	-0.8	0.0	0.6	1.5	2.0	1.0
30	1.3	1.9	1.1	0.4	-0.1	0.6	0.9	0.6	0.9	2.5	6.1	8.2	10.5	12.4	12.2	PF	PF	PF	PF	PF	PF	PF	PF	PF	4.0
1	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	---
2	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	-9.6
3	-12.3	-11.2	-11.4	-11.4	-11.4	-11.8	-12.1	-12.5	-13.1	-12.2	-10.8	-9.5	-8.2	-8.0	-7.7	-8.0	-10.3	-11.8	-12.6	-12.9	-13.4	-13.3	-13.3	-13.5	-11.4
4	-13.9	-14.1	-15.9	-16.8	-17.3	-16.5	-15.6	-17.7	-18.2	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	-16.2
	-1.1	-1.4	-1.7	-1.9	-2.2	-2.6	-2.9	-3.0	-3.1	-1.1	0.8	2.6	3.8	4.2	4.0	2.7	1.5	0.5	0.3	0.0	-0.3	-0.4	-0.5	-0.8	
	Diurnal Average																								
	ZS - Zero/Span Calibration						CAL - Multipoint Calibration						M - Maintenance						DAF - Data Acquisition Failure						
	AF - Analyzer Failure						UO - Unstable Operation						PF - Power Failure						NS - Not in Service						
	Maximum Value in Table: 15.1				First Occurrence on Day 20 Hour 14				Frequency: 1				Hours in Service: 681												
	Minimum Value in Table: -18.2				First Occurrence on Day 4 Hour 9				Frequency: 1				Hours of Data: 633												
	Maximum Daily Value: 7.2				First Occurrence on Day 20				Minimum Daily Value: -16.2				First Occurrence on Day 4												
	Maximum Diurnal Value: 4.2				First Occurrence at Hour 14				Minimum Diurnal Value: -3.1				First Occurrence at Hour 9												
	Monthly Mean: -0.13				Percentiles: P10 = -8.68 Q1 = -4.45 Median = 0.71 Q3 = 4.19 P90 = 7.32				Percent Operational Time: 92.95																

Parkland Airshed Management Zone
Summary of Hourly Averages

AMS 110 (Bentley)
 November 6, 2002 to December 5, 2002
 Relative Humidity (%)

Day	Hourly Period Ending At																								Daily Average
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
6	69.6	74.4	78.1	77.4	74.9	75.7	76.5	78.4	78.5	78.0	77.8	73.4	70.6	66.5	64.1	62.5	60.8	62.2	58.4	54.3	56.0	55.8	58.7	59.8	68.4
7	66.6	66.1	68.0	73.4	73.8	79.2	80.3	79.8	81.8	76.2	70.3	53.6	55.1	54.2	52.3	59.4	67.6	69.6	72.6	75.9	80.6	86.6	88.6	89.1	71.7
8	91.0	91.8	93.4	94.5	94.8	94.9	95.0	95.0	94.6	93.6	93.0	93.1	93.0	92.8	92.5	92.0	91.4	90.7	89.8	89.1	88.7	88.4	88.3	88.3	92.3
9	87.9	87.5	87.2	87.3	87.5	87.4	87.5	87.5	87.3	87.0	86.0	84.6	83.2	83.2	82.6	83.3	83.9	84.2	84.0	83.3	83.7	85.0	85.3	83.4	85.4
10	84.2	85.7	84.8	83.7	81.7	81.7	82.0	82.3	84.7	83.7	82.4	80.2	78.3	78.0	82.1	83.1	83.9	84.8	85.0	85.2	85.5	85.3	85.0	85.7	83.3
11	86.7	85.6	88.1	88.1	88.6	86.8	85.2	86.2	86.6	86.9	76.2	67.9	65.5	74.6	76.6	75.5	80.8	84.0	84.0	87.1	89.2	90.2	89.7	89.2	83.3
12	89.0	87.9	87.5	88.3	89.6	91.1	91.9	91.2	91.2	89.4	87.6	83.4	81.2	82.4	84.7	86.3	87.6	89.1	90.1	90.3	90.8	91.3	91.5	91.5	88.5
13	91.8	91.6	91.5	91.5	92.1	92.6	93.0	92.6	90.0	87.9	83.6	79.5	79.7	76.2	76.1	77.5	76.0	81.2	78.7	78.3	76.2	76.8	74.9	77.3	83.6
14	85.0	90.5	92.6	90.3	91.1	89.6	88.3	88.1	87.9	89.5	84.3	69.3	58.5	55.9	60.1	63.7	70.9	73.2	70.3	73.7	75.9	72.2	78.6	74.8	78.1
15	78.4	79.5	82.5	86.2	88.7	90.6	90.2	85.7	85.0	79.3	70.0	60.0	55.6	57.4	57.5	58.6	61.7	64.9	70.2	72.9	76.8	80.1	78.9	79.3	74.6
16	78.3	74.3	73.9	72.8	74.4	73.7	71.4	70.9	69.8	65.3	59.4	60.5	60.1	60.2	57.4	56.2	56.3	61.3	63.6	57.6	55.8	58.1	60.0	61.3	64.7
17	63.1	64.1	65.5	63.5	65.4	66.3	72.1	62.2	54.4	52.9	49.4	47.6	43.2	42.7	45.2	50.9	49.8	52.2	53.9	56.4	59.5	56.8	56.5	56.8	56.3
18	57.1	57.6	56.1	55.3	59.1	59.8	58.2	52.2	51.7	60.4	62.6	58.0	54.4	52.1	53.3	56.1	63.4	66.8	70.2	72.0	65.8	62.6	61.4	61.8	59.5
19	62.4	59.3	56.6	56.5	52.6	53.0	56.1	57.2	57.1	52.5	53.7	53.1	46.4	44.4	46.5	50.7	56.3	55.5	56.3	54.6	56.8	59.0	59.2	63.4	55.0
20	62.7	63.4	64.5	63.6	61.4	56.5	59.8	63.1	71.7	65.2	58.6	51.2	53.5	48.4	56.5	63.7	72.4	77.6	79.0	85.0	88.6	85.4	89.8	88.6	67.9
21	88.4	86.1	87.5	87.6	84.6	83.8	78.8	78.4	72.2	66.6	61.3	52.5	50.5	54.2	54.4	54.7	59.0	66.1	62.8	63.3	65.3	65.6	64.9	67.4	69.0
22	68.7	65.2	63.3	67.6	60.2	64.1	67.4	70.7	70.7	66.4	58.2	51.6	46.2	45.0	45.5	46.7	54.9	59.8	62.4	61.4	64.7	65.9	73.2	75.0	61.5
23	74.3	82.1	80.2	84.4	86.5	86.8	85.9	86.1	84.7	83.8	80.9	78.6	74.0	64.7	61.5	64.4	73.7	75.7	80.6	83.1	84.2	83.8	80.9	79.2	79.2
24	79.5	80.7	81.2	80.9	81.4	81.3	80.6	80.2	78.6	76.6	75.9	71.9	65.2	63.1	65.4	67.5	55.8	35.5	30.9	28.1	28.1	27.4	28.5	28.5	61.4
25	29.1	32.0	35.1	39.1	42.5	48.5	53.4	57.7	60.7	57.7	51.0	46.2	41.1	38.6	43.0	43.6	47.0	52.5	49.1	48.0	51.8	48.7	46.2	45.6	46.2
26	47.7	53.3	52.8	51.2	56.3	59.1	59.6	61.7	59.4	56.3	52.2	47.8	59.9	66.5	72.2	77.0	77.5	81.4	82.3	77.5	76.3	76.8	77.1	77.0	65.0
27	81.3	83.7	82.3	83.4	84.5	85.9	87.2	86.5	87.9	84.8	80.6	74.1	62.9	56.4	53.5	53.6	54.6	57.4	60.9	65.5	65.9	65.8	64.9	65.7	72.1
28	58.9	53.0	46.7	39.3	44.4	53.0	58.4	60.9	63.9	61.1	56.2	46.6	39.6	38.0	38.8	41.7	43.8	47.0	49.1	54.6	55.0	54.7	51.1	49.8	50.2
29	49.2	51.9	53.1	53.5	54.9	59.2	62.0	63.9	64.4	60.2	53.9	49.6	46.7	44.3	46.8	52.1	56.6	60.0	65.7	64.8	61.8	61.7	58.1	55.5	56.2
30	58.5	54.5	57.9	59.1	61.4	60.7	62.9	66.0	63.9	60.7	54.4	51.5	47.3	44.2	44.9	PF	PF	PF	PF	PF	PF	PF	PF	PF	56.5
1	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	---
2	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	82.8
3	83.0	82.0	81.3	81.1	81.2	81.5	81.1	81.3	81.4	79.1	75.7	73.8	72.1	73.4	74.0	73.8	78.8	81.9	82.2	82.1	82.8	82.5	82.2	81.8	79.6
4	81.8	81.6	80.3	79.9	79.3	80.0	80.9	77.5	78.4	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	80.0
	72.4	72.8	73.0	73.3	73.8	74.9	75.8	75.7	75.5	73.1	69.0	63.8	60.9	59.9	61.1	64.6	67.3	69.2	69.8	70.3	71.1	71.1	71.4	71.5	
	Diurnal Average																								
ZS - Zero/Span Calibration AF - Analyzer Failure CAL - Multipoint Calibration UO - Unstable Operation M - Maintenance PF - Power Failure DAF - Data Acquisition Failure NS - Not in Service																									
Maximum Value in Table: 95.0 Minimum Value in Table: 27.4 Maximum Daily Value: 92.3 Maximum Diurnal Value: 75.8 Monthly Mean: 70.11												First Occurrence on Day 8 Hour 7 First Occurrence on Day 24 Hour 22 First Occurrence on Day 8 First Occurrence at Hour 7 Percentiles: P10 = 50.95 Q1 = 57.79 Frequency: 2 Frequency: 1 Minimum Daily Value: 46.2 Minimum Diurnal Value: 59.9 Median = 72.19 Q3 = 83.31 P90 = 88.50												Hours in Service: 681 Hours of Data: 633 Hours of Missing Data: 48 Hours of Calibration: 0 Percent Operational Time: 92.95	

Parkland Airshed Management Zone
Summary of Hourly Averages

AMS 110 (Bentley)
 November 6, 2002 to December 5, 2002
 Global Radiation (W/m2)

Day	Hourly Period Ending At																								Daily Average
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
6	0	0	0	0	0	0	0	3	30	96	113	121	203	154	85	73	59	0	0	0	0	0	0	0	39.0
7	0	0	0	0	0	0	0	3	28	146	283	308	231	217	267	66	10	0	0	0	0	0	0	0	65.0
8	0	0	0	0	0	0	0	0	6	19	44	48	34	47	36	21	9	0	0	0	0	0	0	0	11.0
9	0	0	0	0	0	0	0	2	21	57	151	211	229	168	150	64	10	0	0	0	0	0	0	0	44.3
10	0	0	0	0	0	0	0	2	21	108	125	215	239	144	79	47	16	0	0	0	0	0	0	0	41.5
11	0	0	0	0	0	0	0	3	22	60	152	218	247	217	140	126	10	0	0	0	0	0	0	0	49.8
12	0	0	0	0	0	0	0	5	47	150	159	229	191	139	74	39	12	0	0	0	0	0	0	0	43.5
13	0	0	0	0	0	0	0	2	36	116	158	173	180	185	138	82	12	0	0	0	0	0	0	0	45.1
14	0	0	0	0	0	0	0	4	38	144	212	271	285	355	165	59	8	0	0	0	0	0	0	0	64.2
15	0	0	0	0	0	0	0	3	33	113	220	273	241	207	251	85	11	0	0	0	0	0	0	0	59.9
16	0	0	0	0	0	0	0	0	29	105	115	116	129	94	70	102	28	0	0	0	0	0	0	0	32.8
17	0	0	0	0	0	0	0	2	28	78	208	333	348	313	195	84	13	0	0	0	0	0	0	0	66.8
18	0	0	0	0	0	0	0	0	24	79	113	143	188	165	160	133	15	0	0	0	0	0	0	0	42.5
19	0	0	0	0	0	0	0	0	16	70	145	254	338	247	170	123	14	0	0	0	0	0	0	0	57.4
20	0	0	0	0	0	0	0	0	26	149	240	299	315	282	210	107	12	0	0	0	0	0	0	0	68.3
21	0	0	0	0	0	0	0	2	10	40	80	118	66	34	27	51	20	0	0	0	0	0	0	0	18.7
22	0	0	0	0	0	0	0	0	23	150	246	307	324	291	216	107	11	0	0	0	0	0	0	0	69.8
23	0	0	0	0	0	0	0	0	18	97	196	285	282	251	189	85	12	0	0	0	0	0	0	0	59.0
24	0	0	0	0	0	0	0	2	23	73	126	232	223	204	104	74	17	0	0	0	0	0	0	0	44.9
25	0	0	0	0	0	0	0	0	17	137	234	235	266	230	125	50	5	0	0	0	0	0	0	0	54.1
26	0	0	0	0	0	0	0	0	10	68	101	113	129	105	95	39	4	0	0	0	0	0	0	0	27.7
27	0	0	0	0	0	0	0	0	14	58	133	192	218	255	197	108	15	0	0	0	0	0	0	0	49.6
28	0	0	0	0	0	0	0	0	18	85	181	284	248	213	150	93	13	0	0	0	0	0	0	0	53.5
29	0	0	0	0	0	0	0	0	14	109	186	233	253	240	141	84	9	0	0	0	0	0	0	0	52.9
30	0	0	0	0	0	0	0	0	8	111	206	269	288	261	194	PF	PF	PF	PF	PF	PF	PF	PF	PF	89.1
1	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	---
2	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	PF	14	2	0	0	0	0	0	0	0	1.8
3	0	0	0	0	0	0	0	0	8	60	135	177	193	119	90	81	5	0	0	0	0	0	0	0	36.2
4	0	0	0	0	0	0	0	0	8	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.9
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	21.3	95.3	163.9	217.6	226.5	197.6	143.0	76.8	13.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Diurnal Average																									
ZS - Zero/Span Calibration						CAL - Multipoint Calibration						M - Maintenance						DAF - Data Acquisition Failure							
AF - Analyzer Failure						UO - Unstable Operation						PF - Power Failure						NS - Not in Service							
Maximum Value in Table: 355				First Occurrence on Day 14 Hour 14				Frequency: 1				Hours in Service: 681													
Minimum Value in Table: 0				First Occurrence on Day 6 Hour 1				Frequency: 386				Hours of Data: 633													
Maximum Daily Value: 89.1				First Occurrence on Day 30				Minimum Daily Value: 1				Hours of Missing Data: 48													
Maximum Diurnal Value: 226				First Occurrence at Hour 13				Minimum Diurnal Value: 0				Hours of Calibration: 0													
Monthly Mean: 47.5				Percentiles: P10 = 0.0 Q1 = 0.0 Median = 0.0 Q3 = 66.0 P90 = 195.5				First Occurrence at Hour 1				Percent Operational Time: 92.95													

Field Sampling Date	Sample ID#	Concentration ug/m ³
11/10/2002	PM 2.5 44274	2.3
11/10/2002	PM 2.5 - 10 55069	9.7
11/10/2002	PM 10	12.0
11/20/2002	PM 2.5 26373	2.9
11/20/2002	PM 2.5 - 10 53691	3.5
11/20/2002	PM 10	6.4
11/22/2002	PM 2.5 46113	1.5
11/22/2002	PM 2.5 - 10 41568	0.9
11/22/2002	PM 10	2.4
11/28/2002	PM 2.5 53120	4.0
11/28/2002	PM 2.5 - 10 40105	1.6
11/28/2002	PM 10	5.6
12/4/2002	PM 2.5 46666	6.7
12/4/2002	PM 2.5 - 10 38951	9.9
12/4/2002	PM 10	16.6

Portable AQM Station Particulate Sampling Results Bentley Site

