

PARKLAND AIRSHED MANAGEMENT ZONE

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

**MOBILE MONITORING STATION
BENTLEY
MAY / JUNE 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

June 20, 2002

**Parkland Airshed Management Zone
Station Summary**

AMS 110 (Bentley)
May 2002

Parameter	Calibration Hours	Number of Data	Percent Up Time	Mean	Min	P10	Q1	Median	Q3	P90	Max
SO2 (ppb)	43	715	98.4	0.33	0.0	0.1	0.1	0.3	0.5	0.9	4.0
H2S (ppb)	44	718	98.8	1.37	0.0	0.0	0.1	0.3	0.9	4.1	30.0
TRS (ppb)	44	718	98.8	1.44	0.0	0.1	0.2	0.3	0.9	4.4	30.0
O3 (ppb)	44	717	98.7	38.51	2.0	22.3	30.0	39.1	47.7	54.0	63.0
NO (ppb)	46	716	98.7	0.49	0.0	0.0	0.1	0.3	0.5	1.1	20.0
NO2 (ppb)	46	716	98.7	3.71	0.0	0.7	1.5	2.8	5.2	7.8	19.0
NOX (ppb)	46	716	98.7	4.35	0.0	0.9	1.8	3.2	5.7	8.9	39.0
THC (ppm)	41	721	98.8	2.50	2.1	2.3	2.3	2.4	2.5	2.9	4.3
CH4 (ppm)	41	721	98.8	1.95	1.7	1.8	1.8	1.9	2.0	2.2	3.4
NH3 (ppm)	79	633	92.1	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Wind Speed (kph)	0	796	98.9	11.12	0.0	2.7	5.3	10.0	15.9	20.5	52.0
External Temperature (ppm)	0	794	98.6	11.14	-3.7	2.9	7.0	10.8	15.5	19.5	25.0
Global Radiation (W/m2)	0	794	98.6	252.01	0.0	0.8	0.9	133.5	471.9	702.2	977.0
Relative Humidity (ppm)	0	794	98.6	53.57	12.2	27.4	37.7	52.5	69.8	82.4	95.4

Parkland Airshed Management Zone - Frequency Table

Bentley - SO2 - May 9 2002 16:00 to June 10 2002 12:00

Pollutant Classes (ppb)	Frequency (hours)
2 - 20	26
21 - 30	0
31 - 60	0
61 - 110	0
111 - 170	0
171 - 340	0
> 340	0

Total Number of Valid Data = 26

Bentley - H2S - May 9 2002 19:00 to June 10 2002 15:00

Pollutant Classes (ppb)	Frequency (hours)
2 - 3	55
4 - 10	54
11 - 50	25
> 50	0

Total Number of Valid Data = 134

Bentley - TRS - May 9 2002 19:00 to June 10 2002 15:00

Pollutant Classes (ppb)	Frequency (hours)
2 - 3	60
4 - 10	52
11 - 50	27
> 50	0

Total Number of Valid Data = 139

Bentley - NO2 - May 9 2002 17:00 to June 10 2002 11:00

Pollutant Classes (ppb)	Frequency (hours)
2 - 50	516
51 - 110	0
111 - 210	0
> 210	0

Total Number of Valid Data = 516

Bentley - Wind Speed - May 9 2002 00:00 to June 11 2002 13:00

Wind Speed Classes (kph)	Frequency (hours)
1 - 5	206
6 - 11	244
12 - 19	237
20 - 28	85
29 - 38	13
> 38	4

Total Number of Valid Data = 789

**Parkland Airshed Management Zone
Downtime Summary**

**AMS 110 Bentley
May / June 2002**

Parameter	Start	End	Duration (hrs)	Notes
SO ₂	10May02:10:00	10May02:12:00	3	Maintenance: rewired channels
	10May02:20:00	10May02:20:00	1	Power temporarily shut down to move station
	14May02:22:00	15May02:05:00	8	Power failure at the station
H ₂ S	10May02:20:00	10May02:20:00	1	Power temporarily shut down to move station
	14May02:22:00	15May02:05:00	8	Power failure at the station
TRS	10May02:20:00	10May02:20:00	1	Power temporarily shut down to move station
	14May02:22:00	15May02:05:00	8	Power failure at the station
NO / NO ₂ / NO _x	10May02:20:00	10May02:20:00	1	Power temporarily shut down to move station
	14May02:22:00	15May02:05:00	8	Power failure at the station
	06Jun02:20:00	06Jun02:20:00	1	Unstable operation: undefined negative spike
O ₃	10May02:20:00	10May02:20:00	1	Power temporarily shut down to move station
	14May02:22:00	15May02:05:00	8	Power failure at the station
	17May02:12:00	17May02:12:00	1	Power fluctuation at the station
THC	10May02:20:00	10May02:20:00	1	Power temporarily shut down to move station
	14May02:22:00	15May02:05:00	8	Power failure at the station
CH ₄	10May02:20:00	10May02:20:00	1	Power temporarily shut down to move station
	14May02:22:00	15May02:05:00	8	Power failure at the station
NH ₃	14May02:22:00	15May02:05:00	8	Power failure at the station
	15May02:06:00	17May02:10:00	53	Power failure at the station, converter down
Wind Speed and Direction	14May02:22:00	15May02:06:00	9	Power failure at the station
External Temperature	10May02:20:00	10May02:20:00	1	Power temporarily shut down to move station
	14May02:22:00	15May02:06:00	9	Power failure at the station
	17May02:12:00	17May02:12:00	1	Power fluctuation at the station
Relative Humidity	10May02:20:00	10May02:20:00	1	Power temporarily shut down to move station
	14May02:22:00	15May02:06:00	9	Power failure at the station
	17May02:12:00	17May02:12:00	1	Power fluctuation at the station
Global Radiation	10May02:20:00	10May02:20:00	1	Power temporarily shut down to move station
	14May02:22:00	15May02:06:00	9	Power failure at the station

**Parkland Airshed Management Zone
Downtime Summary**

**AMS 110 Bentley
May / June 2002**

	17May02:12:00	17May02:12:00	1	Power fluctuation at the station

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

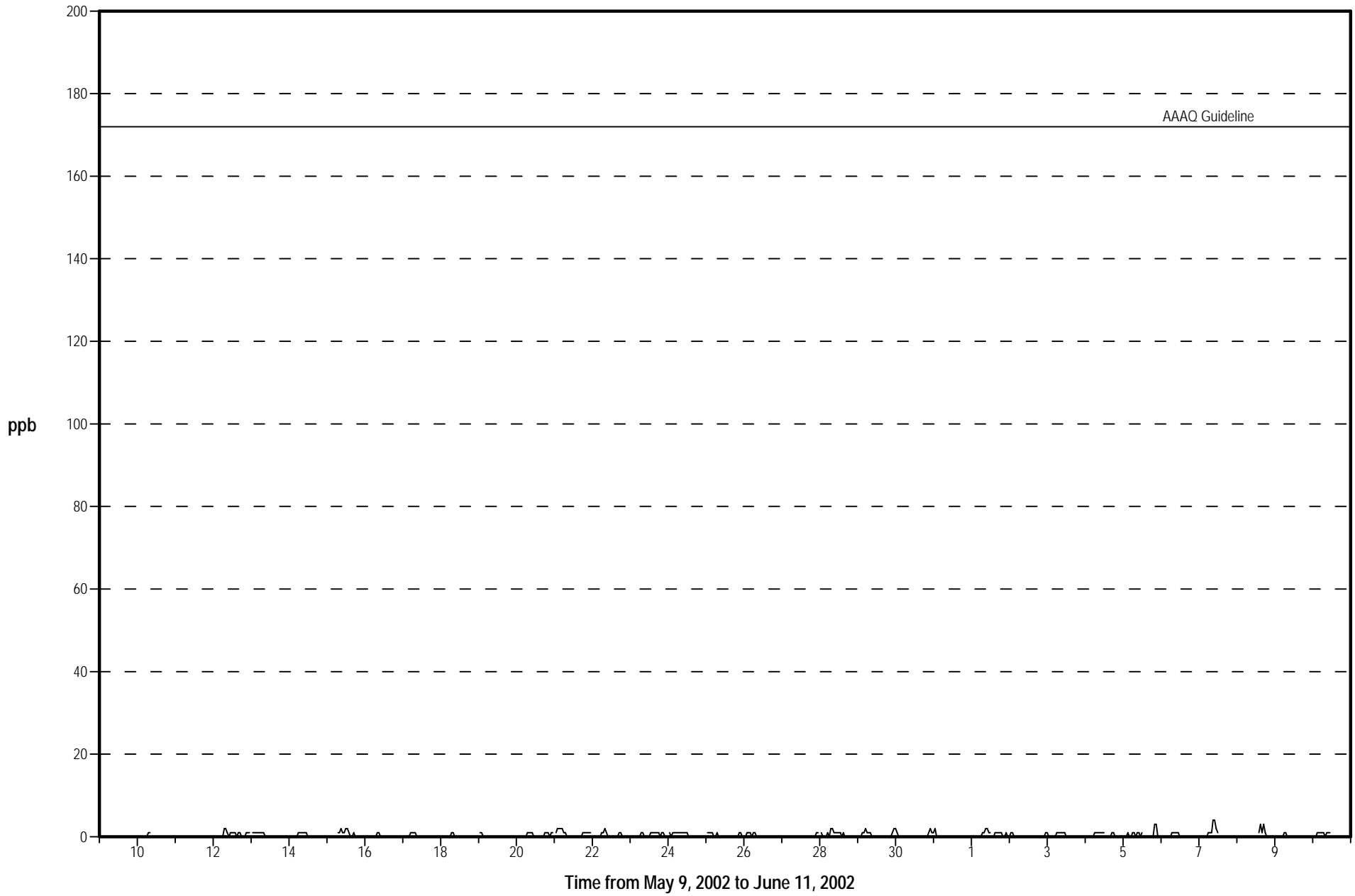
AMS 110 (Bentley)
May 9, 2002 to June 11, 2002
SO2 (ppb)

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	
9	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	CAL	CAL	CAL	CAL	0	0	0	0	0	0	0	0	0.0
10	ZS	0	0	0	0	0	0	1	1	M	M	M	0	0	0	0	0	0	0	PF	0	0	0	0	0.1
11	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
12	ZS	0	0	0	0	0	0	2	2	1	0	1	1	1	1	0	1	1	0	0	0	1	1	1	0.6
13	ZS	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3
14	ZS	0	0	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	PF	PF	PF	0.3
15	PF	PF	PF	PF	PF	ZS	ZS	1	1	2	1	1	2	2	1	0	0	1	0	0	0	0	0	0	0.7
16	ZS	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1
17	ZS	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2
18	ZS	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1
19	ZS	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1
20	ZS	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	1	1	1	0	1	1	0.4
21	ZS	1	2	2	2	2	1	1	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	0.7
22	ZS	0	0	0	0	0	1	1	2	1	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0.3
23	ZS	0	0	0	0	0	0	1	1	0	0	0	0	1	1	1	1	1	0	1	1	0	0	0	0.4
24	ZS	1	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0.5
25	ZS	1	1	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0.3
26	ZS	0	1	1	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2
27	ZS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.1
28	ZS	1	0	0	0	1	0	2	2	1	1	1	1	1	0	1	0	CAL	CAL	CAL	CAL	CAL	CAL	0	0.7
29	0	0	0	1	1	2	1	1	1	0	0	0	0	ZS	0	0	0	0	0	0	0	0	1	2	0.4
30	2	1	0	0	0	0	0	0	0	0	0	0	0	ZS	0	0	0	0	0	0	0	0	1	2	0.3
31	1	2	0	0	0	0	0	0	0	0	0	0	0	ZS	0	0	0	0	0	0	0	0	0	0	0.1
1	0	0	0	0	0	0	0	1	1	2	2	1	1	ZS	0	1	1	1	1	1	0	0	1	0	0.6
2	0	1	1	0	0	0	0	0	0	0	0	0	0	ZS	0	0	0	0	0	0	0	0	0	1	0.1
3	1	0	0	0	0	0	1	1	1	1	1	1	0	ZS	0	0	0	0	0	0	0	0	0	0	0.3
4	0	0	0	0	0	0	1	1	1	1	1	1	1	ZS	0	0	0	1	1	0	0	0	0	0	0.4
5	0	0	0	1	0	0	1	1	0	1	1	0	1	ZS	0	0	0	0	0	0	3	3	0	0	0.5
6	0	0	0	0	0	0	0	1	1	1	1	1	0	ZS	0	0	0	0	0	0	0	0	0	0	0.2
7	0	0	0	0	0	0	1	1	1	4	4	2	1	ZS	0	0	0	0	0	0	0	0	0	0	0.6
8	0	0	0	0	0	0	0	0	0	0	0	0	0	ZS	1	3	1	3	1	0	0	0	0	0	0.4
9	0	0	0	0	0	0	1	1	0	0	0	0	0	ZS	0	0	0	0	0	0	0	0	0	0	0.1
10	0	0	0	1	1	1	1	1	0	1	1	1	CAL	CAL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.7
	0.3	0.3	0.2	0.3	0.3	0.3	0.5	0.8	0.7	0.6	0.5	0.4	0.3	0.3	0.1	0.2	0.1	0.3	0.2	0.1	0.2	0.3	0.3	0.3	

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: 4	First Occurrence on Day 7 Hour 10	Frequency: 2	Hours in Service: 770
Minimum Value in Table: 0	First Occurrence on Day 9 Hour 17	Frequency: 514	Hours of Data: 715
Maximum Daily Value: 0.7	First Occurrence on Day 21	Minimum Daily Value: 0	Hours of Missing Data: 55
Maximum Diurnal Value: 1	First Occurrence at Hour 8	Minimum Diurnal Value: 0	Hours of Calibration: 43
Monthly Mean: 0.3	Percentiles: P10 = 0.1 Q1 = 0.1 Median = 0.3 Q3 = 0.5 P90 = 0.9	First Occurrence on Day 9	Percent Operational Time: 98.44
		First Occurrence at Hour 20	

Bentley SO2 Hourly Averages



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

AMS 110 (Bentley)
May 2002
SO2 (ppb)

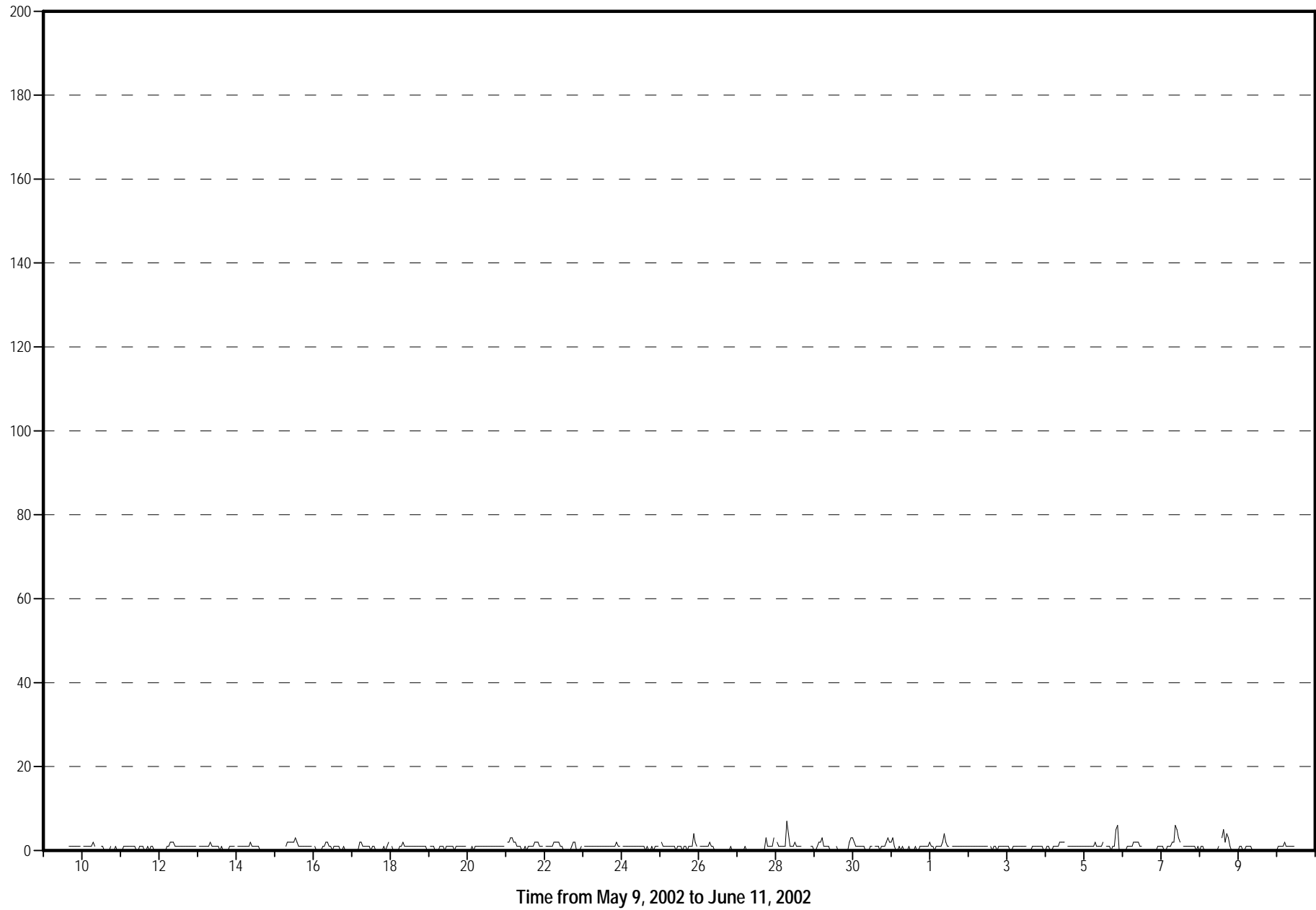
Day	Hourly Period Ending At																								Daily Average	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	1	1	1	1	1	1	1	1.0	
10	--	1	1	1	1	1	1	2	1	--	--	--	1	1	0	0	0	0	1	--	0	1	0	0	0.7	
11	--	0	1	1	1	1	1	1	1	1	0	0	1	1	1	0	0	1	0	1	1	0	0	0	0.6	
12	--	0	0	0	0	1	1	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.0	
13	--	1	1	1	1	1	1	1	2	1	1	1	1	1	0	1	0	0	0	0	0	1	1	1	0.8	
14	--	1	1	1	1	1	1	1	1	2	1	1	1	1	1	0	0	0	0	0	0	0	--	--	0.8	
15	--	--	--	--	--	--	--	1	2	2	2	2	2	3	2	1	1	1	1	1	1	1	1	1	1.5	
16	--	1	0	0	0	0	1	1	2	2	1	1	0	1	1	1	1	0	0	1	0	0	0	0	0.6	
17	--	0	0	0	0	2	2	1	1	1	1	1	0	1	1	0	0	0	0	0	1	0	1	2	0.7	
18	--	1	0	0	0	0	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0.8	
19	--	1	1	1	0	0	0	1	1	1	0	1	1	1	1	1	0	1	1	1	1	1	1	1	0.8	
20	--	0	0	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0.9	
21	--	2	2	3	3	2	2	1	1	1	0	0	1	0	1	1	1	1	2	2	2	1	1	1	1.3	
22	--	1	1	1	1	1	2	2	2	2	1	1	0	0	0	0	0	1	2	2	0	0	0	1	0.9	
23	--	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1.0	
24	--	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	0	0	1	0	1	1	1	0.8	
25	--	2	1	1	1	1	1	1	1	1	0	1	1	1	0	1	1	0	1	1	1	4	2	1	1.1	
26	--	1	1	1	1	1	1	2	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0.5	
27	--	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	3	1	1	1	1	3	0.5	
28	--	2	1	1	1	1	1	7	4	1	1	1	2	1	1	1	1	--	--	--	--	--	1	1	1.6	
29	0	0	1	2	2	3	1	1	1	1	0	0	0	--	1	0	0	0	0	0	0	0	2	3	0.8	
30	3	2	1	1	1	1	1	1	0	0	0	1	1	--	1	1	1	0	1	1	1	2	3	2	1.1	
31	2	3	1	0	0	1	0	1	0	0	0	1	0	--	0	1	0	0	1	1	1	1	1	1	0.7	
1	2	1	1	0	1	1	1	1	2	4	2	1	1	--	1	1	1	1	1	1	1	1	1	1	1.2	
2	1	1	1	1	1	1	1	1	1	1	1	1	1	--	1	0	1	1	1	0	1	1	1	1	0.9	
3	1	1	0	0	1	1	1	1	1	1	1	1	1	--	0	0	1	1	1	1	1	1	1	0	0.8	
4	0	1	1	0	0	1	1	1	1	2	2	2	2	--	1	1	1	1	1	1	1	1	1	1	1.0	
5	1	1	1	1	1	1	1	2	1	1	1	1	2	--	1	1	1	0	1	1	5	6	0	0	1.3	
6	0	0	0	1	1	1	1	2	2	2	2	1	1	--	0	0	0	0	0	0	0	0	1	1	0.7	
7	1	1	0	0	1	1	1	2	2	6	5	3	2	--	1	1	1	1	1	1	1	1	0	1	1.5	
8	0	1	1	0	0	0	0	0	0	0	0	0	1	--	3	5	2	4	3	1	0	0	0	0	0.9	
9	0	1	1	0	0	1	1	1	1	0	0	0	0	--	0	0	0	0	0	0	0	0	0	0	0.3	
10	0	1	1	1	1	2	1	1	1	1	1	1	--	--	--	--	--	--	--	--	--	--	--	--	1.0	
	0.8	1.0	0.7	0.7	0.7	1.0	1.0	1.3	1.3	1.3	0.9	0.9	0.9	0.9	0.8	0.7	0.6	0.6	0.6	0.8	0.8	0.9	1.0	0.8	0.9	

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

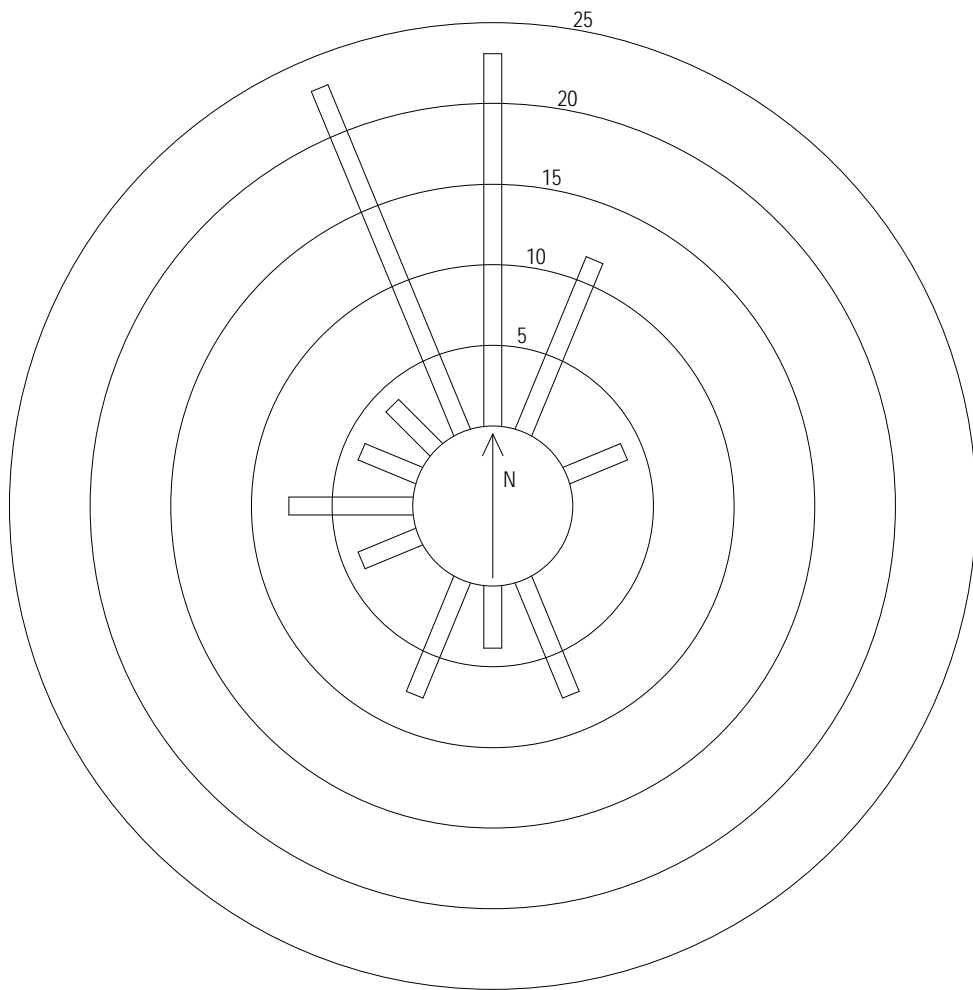
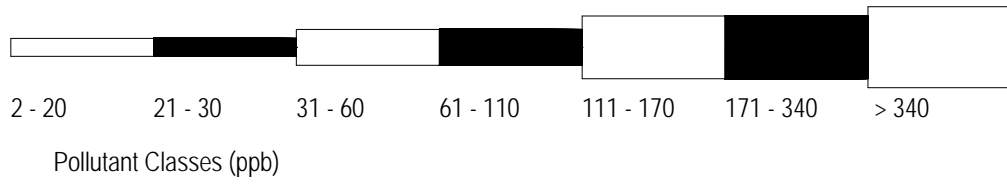
Maximum Value in Table: 7 First Occurrence on Day 28 Hour 8 Frequency: 1
 Minimum Value in Table: 0 First Occurrence on Day 10 Hour 15 Frequency: 199
 Maximum Daily Value: 2 First Occurrence on Day 28 Minimum Daily Value: 0 First Occurrence on Day 9
 Maximum Diurnal Value: 1 First Occurrence at Hour 8 Minimum Diurnal Value: 1 First Occurrence at Hour 18
 Monthly Mean: 0.9 Percentiles: P10 = 0.4 Q1 = 0.5 Median = 0.7 Q3 = 1.0 P90 = 1.7

Bentley SO2 Maximum Values



Parkland Airshed Management Zone

Bentley - SO2 - May 9, 2002 16:00 to June 10, 2002 12:00

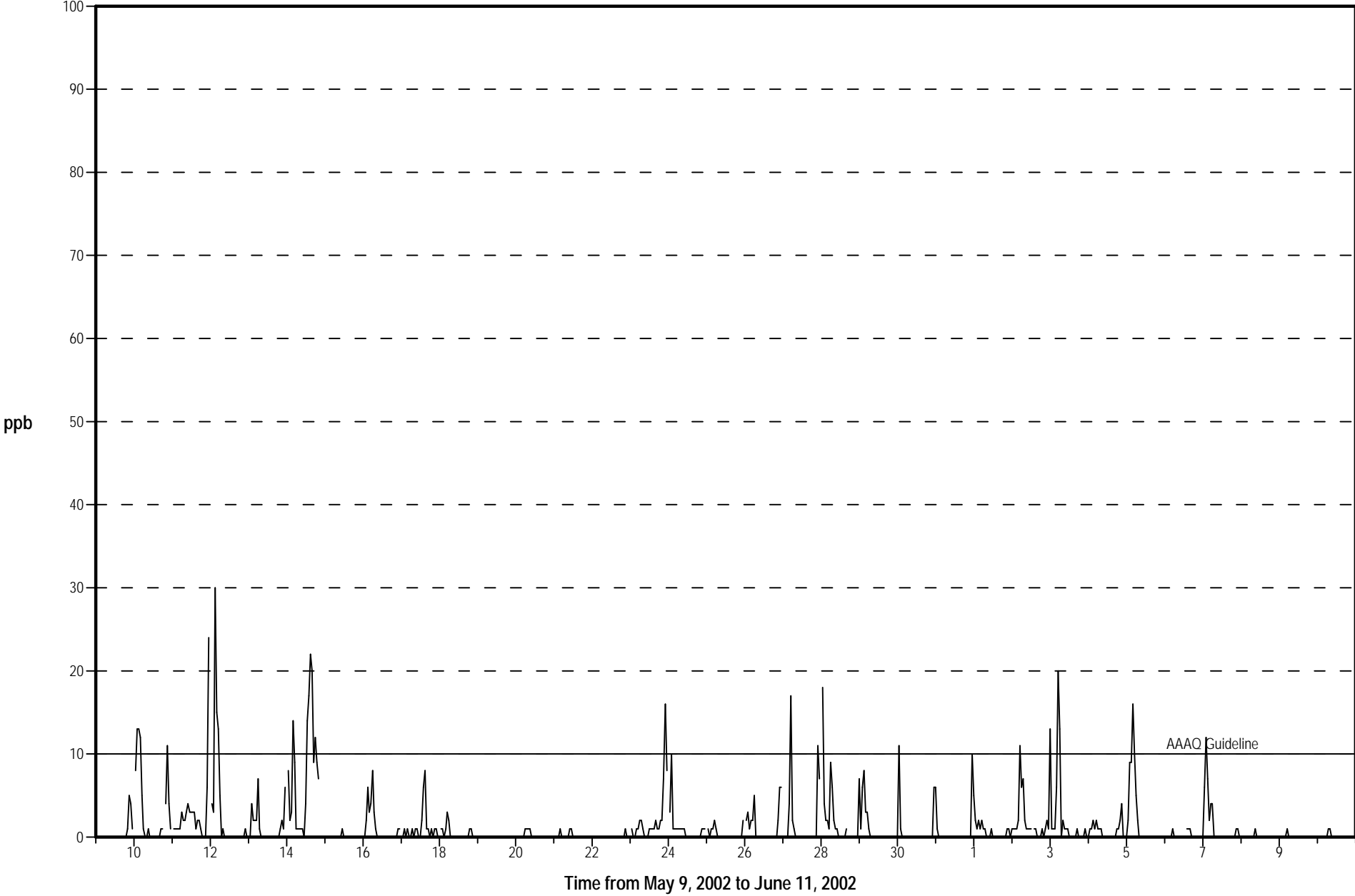


**Parkland Airshed Management Zone
Summary of Hourly Averages**

AMS 110 (Bentley)
May 9, 2002 to June 11, 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																	
9	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	CAL	CAL	CAL	CAL	0	0	1	5	4	1	1.8																
10	ZS	8	13	13	12	5	1	0	0	1	0	0	0	0	0	0	0	1	1	PF	4	11	4	1	3.4																
11	ZS	1	1	1	1	1	3	2	2	3	4	3	3	3	1	2	2	1	0	0	0	0	6	24	2.9																
12	ZS	4	3	30	15	13	5	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	3.1																
13	ZS	0	4	2	2	2	7	1	0	0	0	0	0	0	0	0	0	0	0	0	1	2	1	6	1.2																
14	ZS	8	2	3	14	9	1	1	1	1	1	0	4	14	17	22	20	9	12	9	7	PF	PF	PF	7.8																
15	PF	PF	PF	PF	PF	ZS	ZS	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.1																
16	ZS	0	2	6	3	4	8	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1.3																
17	ZS	0	1	0	1	0	0	1	0	1	1	0	0	2	6	8	1	1	0	1	0	1	1	0	1.1																
18	ZS	1	1	0	1	3	2	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0.4																
19	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																
20	ZS	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2																
21	ZS	0	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0.1																
22	ZS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0.0																
23	ZS	1	0	0	1	1	2	2	1	0	0	1	1	1	1	1	2	1	1	2	2	7	16	8	2.2																
24	ZS	3	10	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	1	1	1	1.0																
25	ZS	1	0	1	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0.3																
26	ZS	2	3	1	2	2	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	6	6	1.3																
27	ZS	0	0	0	4	17	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	7	1.8																
28	ZS	18	4	2	2	1	9	6	2	1	1	0	0	0	0	0	1	CAL	CAL	CAL	CAL	CAL	0	0	2.6																
29	7	1	6	8	3	3	1	0	0	0	0	0	0	ZS	0	0	0	0	0	0	0	0	0	0	1.3																
30	0	11	1	0	0	0	0	0	0	0	0	0	0	ZS	0	0	0	0	0	0	0	0	0	6	0.8																
31	6	1	0	0	0	0	0	0	0	0	0	0	0	ZS	0	0	0	0	0	0	0	0	0	10	0.7																
1	5	2	1	2	1	2	1	1	0	0	0	1	0	ZS	0	0	0	0	0	0	0	1	1	0	0.8																
2	1	1	1	1	2	11	6	7	2	1	1	1	1	ZS	1	1	0	0	0	1	0	1	2	1	1.9																
3	13	1	1	1	6	20	13	0	2	1	1	1	0	ZS	0	0	0	1	0	0	0	1	0	0	2.7																
4	0	1	1	2	1	2	1	1	1	0	0	0	0	ZS	0	0	0	0	1	1	2	4	0	0	0.8																
5	0	2	9	9	16	10	5	2	0	0	0	0	0	ZS	0	0	0	0	0	0	0	0	0	0	2.3																
6	0	0	0	0	0	1	0	0	0	0	0	0	0	ZS	1	1	1	0	0	0	0	0	0	0	0.2																
7	0	6	12	7	2	4	4	0	0	0	0	0	0	ZS	0	0	0	0	0	0	0	1	1	0	1.6																
8	0	0	0	0	0	0	0	0	0	1	0	0	0	ZS	0	0	0	0	0	0	0	0	0	0	0.0																
9	0	0	0	0	0	1	0	0	0	0	0	0	0	ZS	0	0	0	0	0	0	0	0	0	0	0.0																
10	0	0	0	0	0	0	0	1	1	0	0	0	0	ZS	0	CAL	CAL	NS	NS	NS	NS	NS	NS	NS	0.1																
	2.5	2.4	2.5	2.9	3.0	3.7	2.5	1.0	0.5	0.4	0.3	0.3	0.3	1.1	0.9	1.1	0.9	0.5	0.5	0.5	0.6	1.2	1.8	2.4																	
	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: 30				First Occurrence on Day 12 Hour 4				Frequency: 1				Hours in Service: 771				771																									
Minimum Value in Table: 0				First Occurrence on Day 9 Hour 19				Frequency: 452				Hours of Data: 718				718																									
Maximum Daily Value: 7.8				First Occurrence on Day 14				Minimum Daily Value: 0				First Occurrence on Day 19				53																									
Maximum Diurnal Value: 4				First Occurrence at Hour 6				Minimum Diurnal Value: 0				First Occurrence at Hour 12				44																									
Monthly Mean: 1.4				Percentiles: P10 = 0.0 Q1 = 0.1 Median = 0.3 Q3 = 0.9 P90 = 4.1								Percent Operational Time: 98.83				98.83																									

Bentley H2S Hourly Averages



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

AMS 110 (Bentley)
May 2002
H2S (ppb)

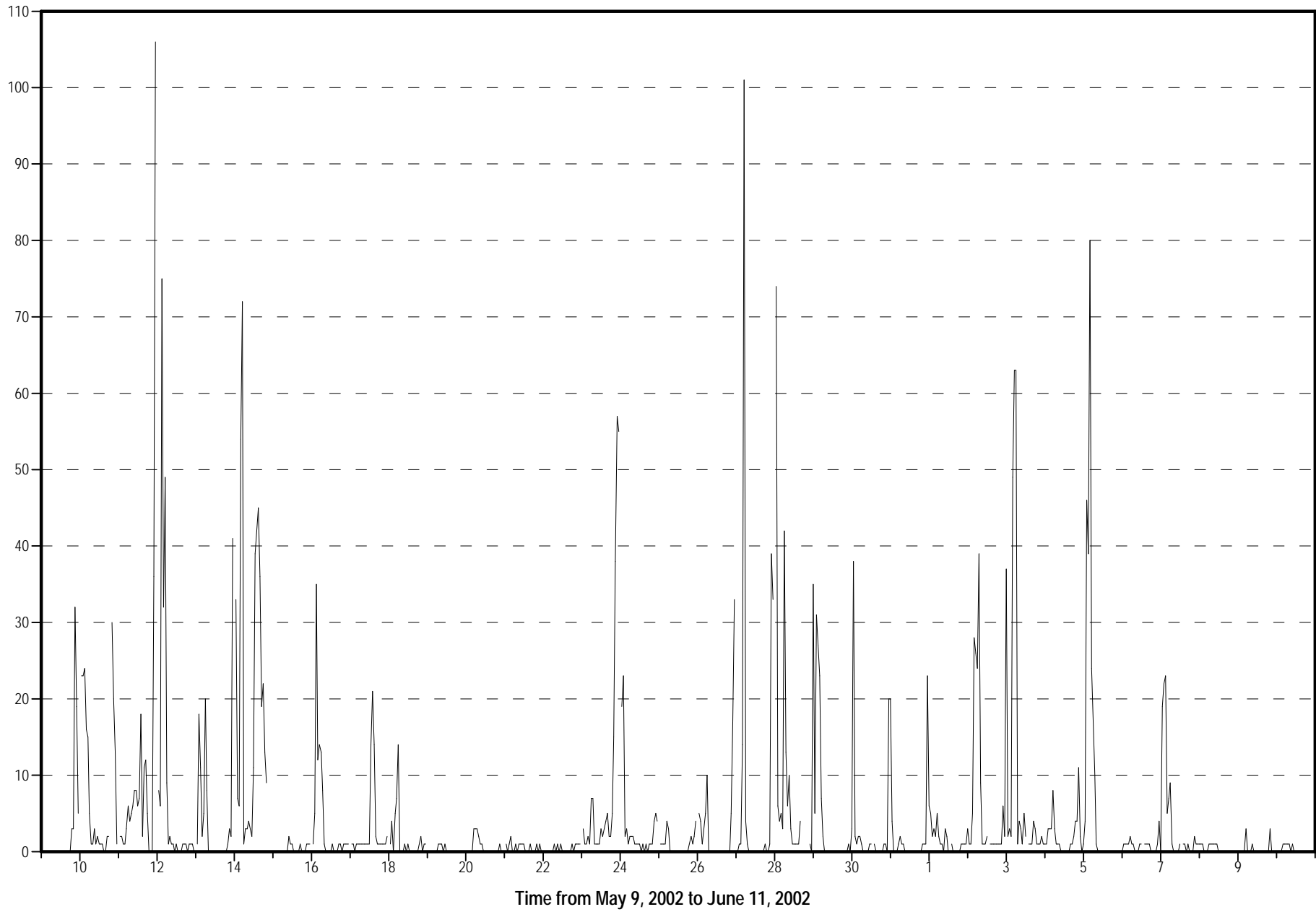
Day	Hourly Period Ending At																								Daily Average
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	3	3	32	19	5	10.3
10	--	23	23	24	16	15	5	1	1	3	1	2	1	1	1	0	0	2	2	--	30	20	13	1	8.4
11	--	2	2	1	1	3	6	4	5	6	8	8	6	7	18	2	11	12	5	0	0	0	36	106	10.8
12	--	8	6	75	32	49	9	1	2	1	1	0	1	0	0	0	1	1	1	0	1	1	1	0	8.3
13	--	1	18	11	2	5	20	8	0	0	0	0	0	0	0	0	0	0	0	0	1	3	2	41	4.9
14	--	33	7	6	54	72	1	3	3	4	3	2	11	39	42	45	36	19	22	13	9	--	--	--	21.2
15	--	--	--	--	--	--	--	0	0	0	2	1	1	0	0	0	0	1	0	0	0	1	1	1	0.5
16	--	1	5	35	12	14	13	8	1	0	0	0	0	1	0	0	0	1	1	0	1	1	1	1	4.2
17	--	1	1	0	1	1	1	1	1	1	1	1	1	14	21	14	2	1	1	1	1	1	1	2	3.0
18	--	1	4	0	5	7	14	0	0	0	1	0	1	0	0	0	0	0	0	1	2	0	1	1	1.7
19	--	0	0	0	0	0	0	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0.2
20	--	0	0	0	0	3	3	3	2	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0.6
21	--	1	0	1	2	0	0	1	0	1	1	1	1	0	0	0	1	0	0	0	1	0	1	0	0.5
22	--	0	0	0	0	0	0	1	0	1	0	1	0	0	0	0	0	0	1	0	1	1	1	1	0.3
23	--	3	1	1	2	1	7	7	1	1	1	1	3	2	3	4	5	2	2	5	15	38	57	55	9.4
24	--	19	23	2	3	1	2	2	2	1	1	1	1	0	1	0	1	0	1	1	1	4	5	4	3.3
25	--	1	1	1	1	4	3	0	0	0	0	0	0	0	0	0	0	0	0	1	2	1	2	4	0.9
26	--	5	4	1	3	5	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	17	33	3.6
27	--	0	1	1	14	101	4	1	0	0	0	0	0	0	0	0	0	0	1	0	0	1	39	33	8.5
28	--	74	6	4	5	3	42	13	6	10	3	1	1	1	1	1	4	--	--	--	--	--	1	0	9.8
29	35	5	31	27	23	7	2	0	0	0	0	0	0	--	0	0	0	0	0	0	0	0	1	0	5.7
30	3	38	2	1	2	2	1	0	0	0	0	1	1	--	1	0	0	0	0	0	1	1	0	20	3.2
31	20	4	0	0	0	1	2	1	1	0	0	0	0	--	0	0	0	0	0	0	1	1	1	23	2.4
1	6	5	2	3	2	5	2	1	1	0	3	2	0	--	1	0	0	0	0	0	1	1	1	1	1.6
2	3	1	1	5	28	26	24	39	9	1	1	1	2	--	1	1	1	1	1	1	1	1	6	2	6.8
3	37	2	3	2	49	63	63	1	4	3	1	5	2	--	1	1	1	4	3	1	1	1	2	1	10.9
4	1	1	3	3	3	8	3	1	1	1	0	0	0	--	0	0	1	1	2	4	4	11	2	0	2.2
5	1	4	46	39	80	24	17	10	1	0	0	0	0	--	0	0	0	0	0	0	0	0	0	0	9.7
6	0	1	1	1	1	2	1	1	0	0	0	1	1	--	1	1	1	1	0	0	0	0	1	4	0.8
7	0	19	22	23	5	7	9	1	0	0	0	0	1	--	1	1	0	1	0	0	0	2	1	1	4.1
8	1	1	1	0	0	0	1	1	1	1	1	1	0	--	0	0	0	0	0	0	0	0	0	0	0.4
9	0	0	0	0	0	3	0	0	0	1	0	0	0	--	0	0	0	0	0	0	3	0	0	0	0.3
10	0	0	0	0	1	1	1	1	1	0	1	0	0	--	1	--	--	--	--	--	--	--	--	--	0.5
	8.2	8.2	6.9	8.6	11.2	14.0	8.6	3.5	1.4	1.2	1.0	1.0	1.1	3.4	2.9	2.3	2.1	1.6	1.4	1.0	2.6	4.3	6.9	11.0	

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

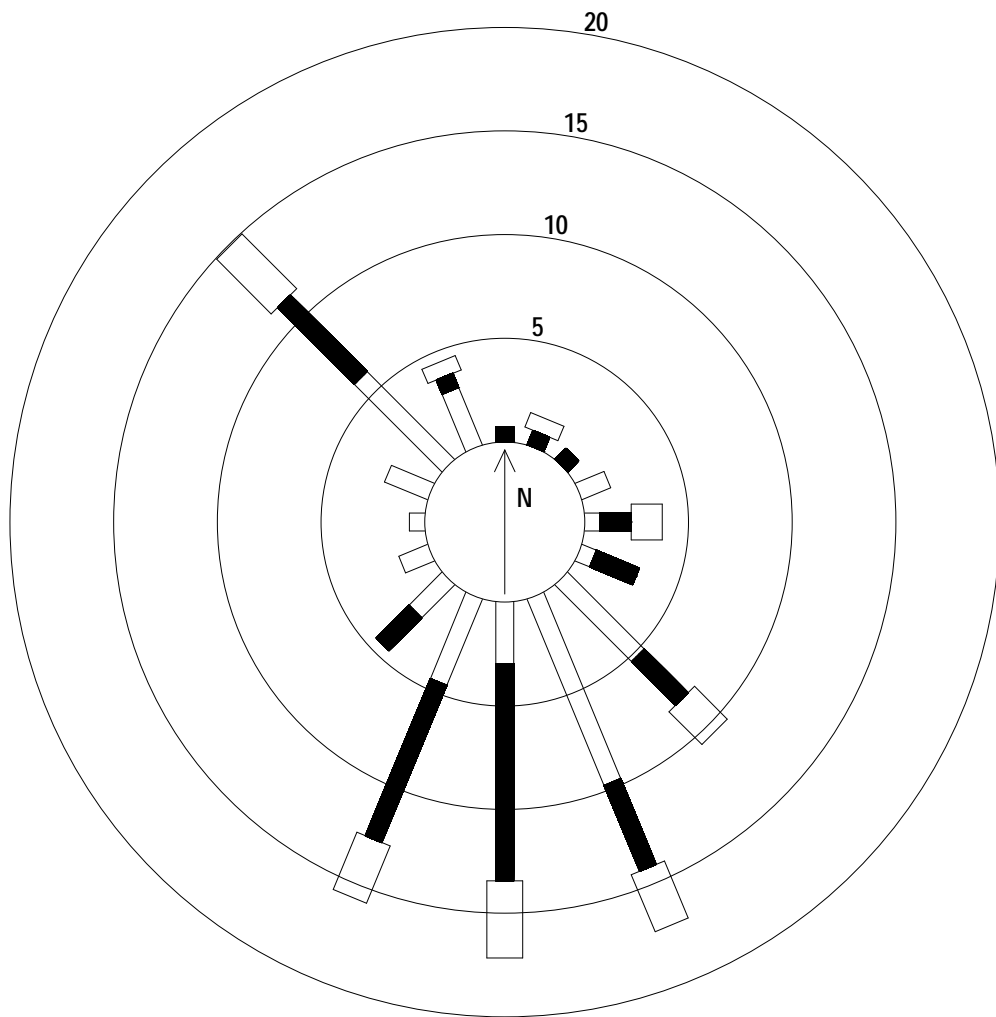
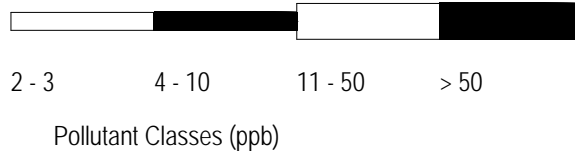
Maximum Value in Table: 106 First Occurrence on Day 11 Hour 24 Frequency: 1
Minimum Value in Table: 0 First Occurrence on Day 9 Hour 19 Frequency: 283
Maximum Daily Value: 21 First Occurrence on Day 14 Minimum Daily Value: 0 First Occurrence on Day 19
Maximum Diurnal Value: 14 First Occurrence at Hour 6 Minimum Diurnal Value: 1 First Occurrence at Hour 11
Monthly Mean: 4.7 Percentiles: P10 = 0.2 Q1 = 0.3 Median = 0.8 Q3 = 2.5 P90 = 12.9

Bentley H2S Maximum Values



Parkland Airshed Management Zone

Bentley - H2S - May 9, 2002 19:00 to June 10, 2002 15:00

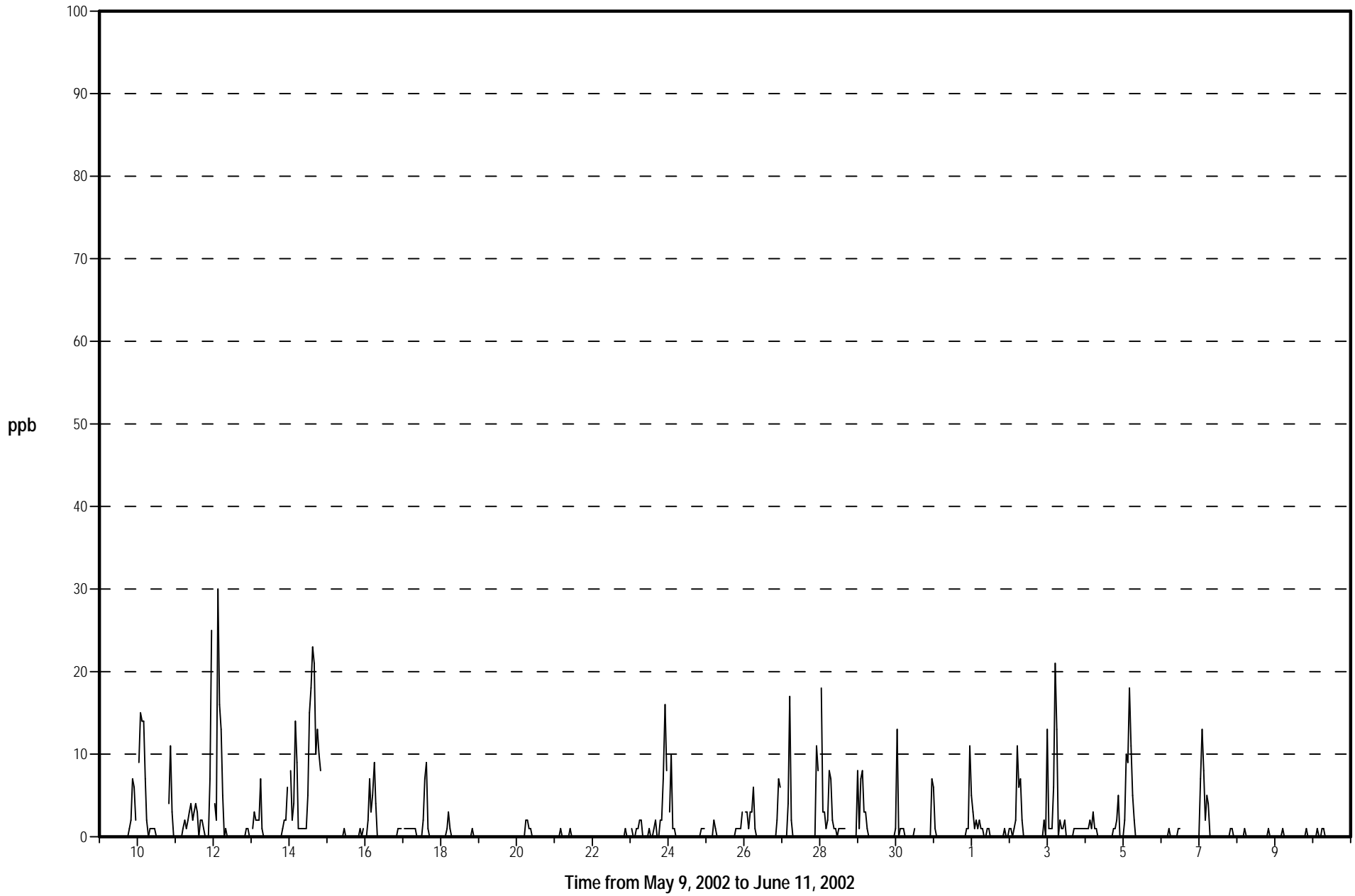


**Parkland Airshed Management Zone
Summary of Hourly Averages**

AMS 110 (Bentley)
May 9, 2002 to June 11, 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	
9	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	CAL	CAL	CAL	CAL	0	1	2	7	6	2	3.0
10	ZS	9	15	14	14	7	2	0	1	1	1	1	0	0	0	0	0	0	0	PF	4	11	3	0	3.8
11	ZS	0	0	0	0	1	2	1	2	3	4	2	3	4	3	0	2	2	1	0	0	0	7	25	2.7
12	ZS	4	2	30	16	13	5	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	3.2
13	ZS	1	3	2	2	2	7	1	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2	6	1.3
14	ZS	8	2	4	14	9	1	1	1	1	1	1	5	15	18	23	21	10	13	10	8	PF	PF	PF	8.3
15	PF	PF	PF	PF	PF	ZS	ZS	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0.2
16	ZS	0	2	7	3	5	9	4	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1.4
17	ZS	1	1	1	1	1	1	1	1	0	0	0	0	2	7	9	1	0	0	0	0	0	0	0	1.2
18	ZS	0	0	0	1	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0.3
19	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
20	ZS	0	0	0	0	0	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3
21	ZS	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1
22	ZS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0.0
23	ZS	1	0	0	1	1	2	2	0	0	0	1	0	0	0	1	2	0	0	2	2	7	16	8	2.0
24	ZS	3	10	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0.8
25	ZS	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	3	0.4
26	ZS	3	3	1	3	3	6	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	7	6	1.5
27	ZS	0	0	0	4	17	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	8	1.8
28	ZS	18	3	3	1	2	8	7	2	1	1	0	1	1	1	1	1	CAL	CAL	CAL	CAL	CAL	0	0	2.8
29	8	1	7	8	3	3	1	0	0	0	0	0	0	ZS	0	0	0	0	0	0	0	0	0	0	1.3
30	1	13	0	1	1	1	0	0	0	0	0	0	1	ZS	0	0	0	0	0	0	0	0	0	7	1.1
31	6	1	0	0	0	0	0	0	0	0	0	0	0	ZS	0	0	0	0	0	0	0	1	1	11	0.9
1	5	3	1	2	1	2	1	1	0	0	1	1	0	ZS	0	0	0	0	0	0	0	1	0	0	0.8
2	1	1	0	1	2	11	6	7	2	0	0	0	0	ZS	0	0	0	0	0	0	0	0	2	0	1.4
3	13	1	1	1	6	21	13	0	2	1	1	2	0	ZS	0	0	0	1	1	1	1	1	1	1	3.0
4	1	1	1	2	1	3	1	1	0	0	0	0	0	ZS	0	0	0	0	1	1	2	5	0	0	0.9
5	0	2	10	9	18	11	5	2	0	0	0	0	0	ZS	0	0	0	0	0	0	0	0	0	0	2.5
6	0	0	0	0	0	1	0	0	0	0	0	1	1	ZS	0	0	0	0	0	0	0	0	0	0	0.1
7	0	7	13	8	2	5	4	0	0	0	0	0	0	ZS	0	0	0	0	0	0	1	1	0	0	1.8
8	0	0	0	0	0	1	0	0	0	0	0	0	0	ZS	0	0	0	0	0	0	1	0	0	0	0.1
9	0	0	0	0	0	1	0	0	0	0	0	0	0	ZS	0	0	0	0	0	0	1	0	0	0	0.1
10	0	0	0	1	0	0	1	1	0	0	0	0	0	ZS	0	CAL	CAL	NS	NS	NS	NS	NS	NS	NS	0.2
	2.7	2.5	2.4	3.1	3.1	4.1	2.6	1.0	0.4	0.3	0.3	0.3	0.4	1.2	0.9	1.1	0.9	0.4	0.5	0.5	0.8	1.5	1.9	2.6	
	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: 30 First Occurrence on Day 12 Hour 4 Frequency: 1																									
Minimum Value in Table: 0 First Occurrence on Day 9 Hour 19 Frequency: 459																									
Maximum Daily Value: 8.3 First Occurrence on Day 14 Minimum Daily Value: 0 First Occurrence on Day 19																									
Maximum Diurnal Value: 4 First Occurrence at Hour 6 Minimum Diurnal Value: 0 First Occurrence at Hour 10																									
Monthly Mean: 1.4 Percentiles: P10 = 0.1 Q1 = 0.2 Median = 0.3 Q3 = 0.9 P90 = 4.4																									
Hours in Service: 771																									
Hours of Data: 718																									
Hours of Missing Data: 53																									
Hours of Calibration: 44																									
Percent Operational Time: 98.83																									

Bentley TRS Hourly Averages

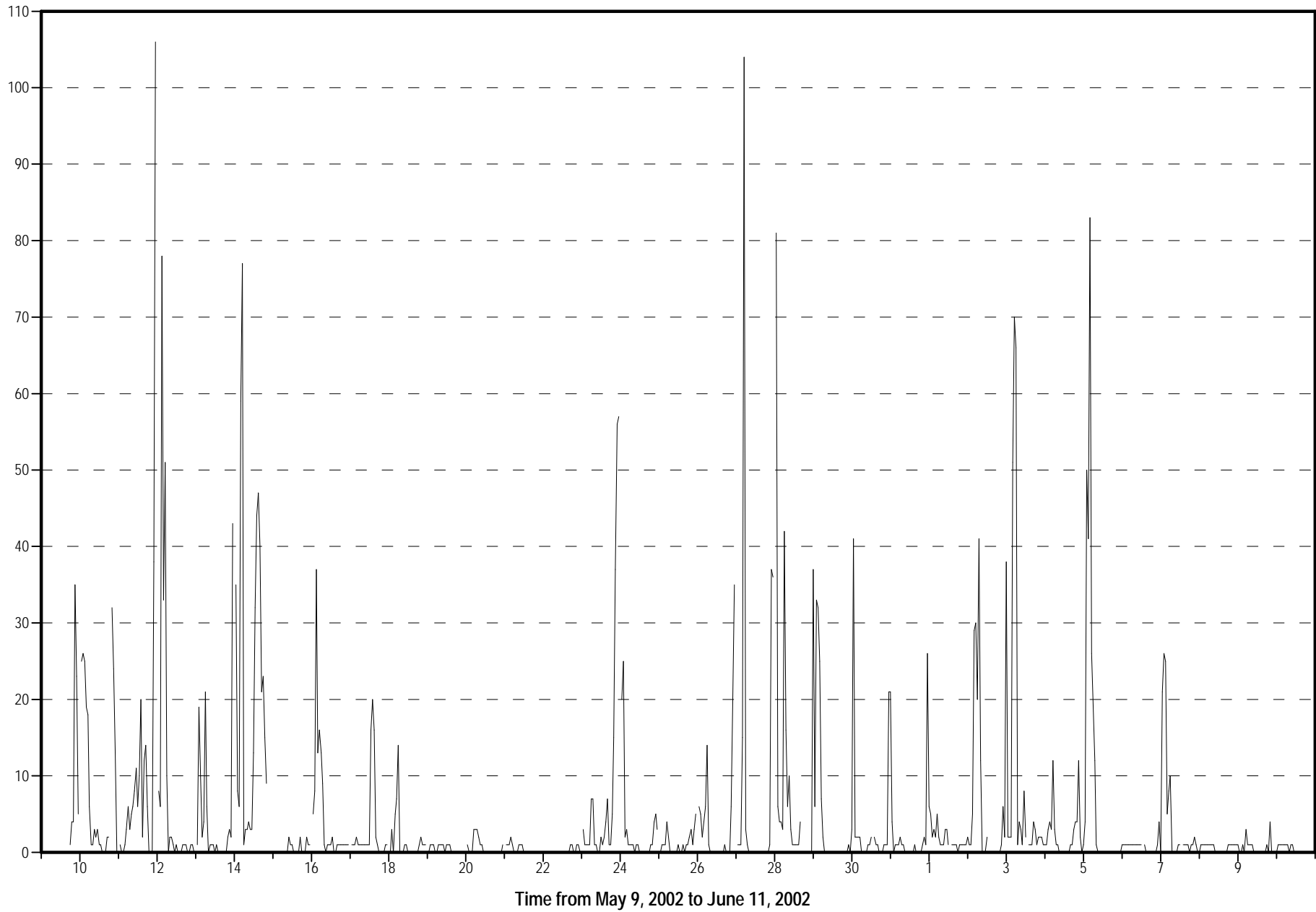


**Parkland Airshed Management Zone
Summary of Maximum Value in each Hour**

AMS 110 (Bentley)
May 2002
TRS (ppb)

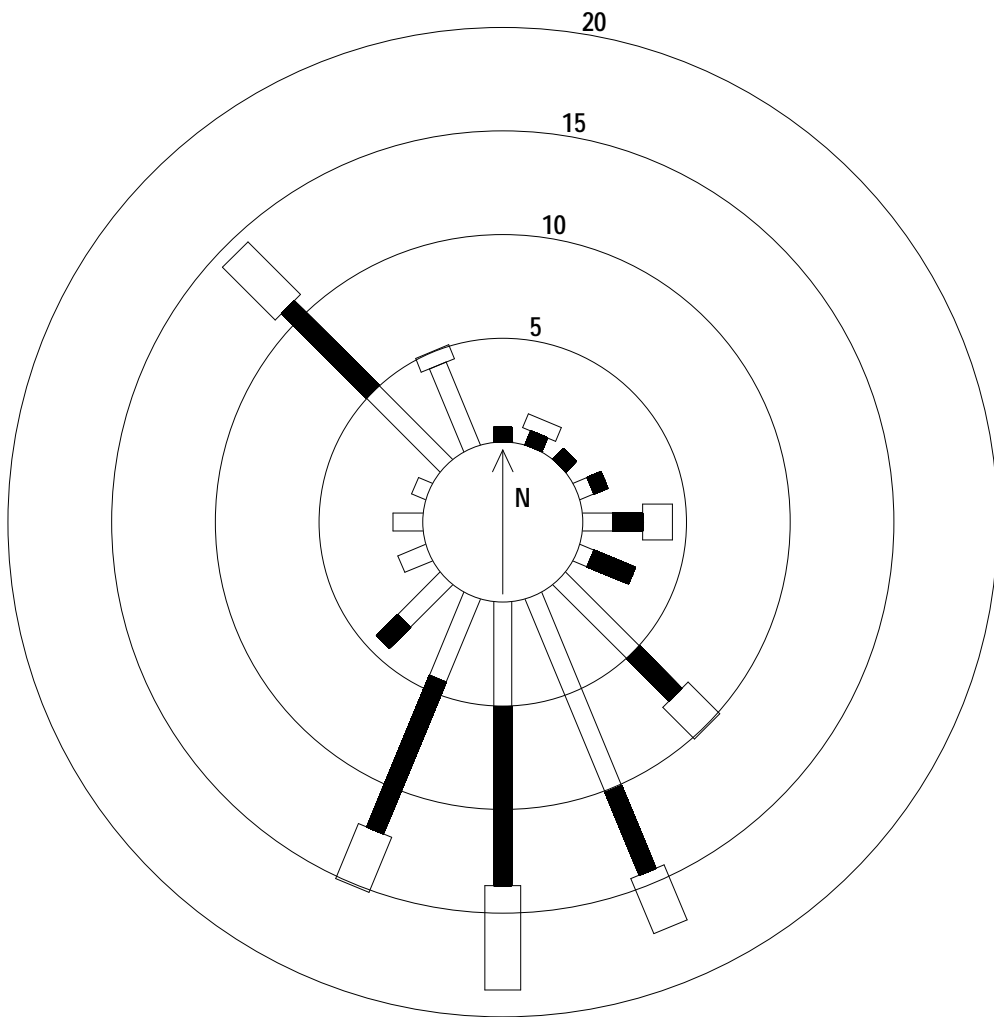
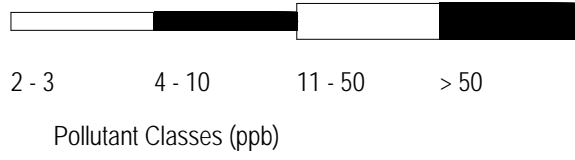
Day	Hourly Period Ending At																								Daily Average
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	4	4	35	23	5	12.0
10	--	25	26	25	19	18	6	1	1	3	2	3	1	1	0	0	0	2	2	--	32	24	13	0	9.3
11	--	1	0	0	1	3	6	3	5	6	8	11	6	10	20	2	12	14	6	0	0	0	38	106	11.2
12	--	8	6	78	33	51	10	0	2	2	1	0	1	0	0	0	1	1	1	0	0	1	1	0	8.6
13	--	1	19	10	2	4	21	6	0	1	1	1	0	1	0	0	0	0	0	0	2	3	2	43	5.1
14	--	35	8	6	59	77	1	3	3	4	3	3	13	32	44	47	40	21	23	15	9	--	--	--	22.3
15	--	--	--	--	--	--	--	0	0	0	2	1	1	0	0	0	0	2	0	0	0	2	1	1	0.6
16	--	5	8	37	13	16	13	9	1	0	1	1	1	2	0	0	1	1	1	1	1	1	1	1	5.0
17	--	1	1	1	2	1	1	1	1	1	1	1	1	16	20	16	2	1	0	0	0	0	1	1	3.0
18	--	0	3	0	5	7	14	0	0	0	1	1	0	0	0	0	0	0	0	1	2	1	1	1	1.6
19	--	0	1	1	1	0	0	1	1	1	1	0	1	1	1	0	0	0	0	0	0	0	0	0	0.4
20	--	1	0	0	0	3	3	3	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0.7
21	--	1	1	1	2	1	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0.4
22	--	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	1	1	0	0.2
23	--	3	1	1	1	1	7	7	1	1	0	2	1	2	4	7	1	1	1	5	15	37	56	57	9.2
24	--	20	25	2	3	1	1	1	1	0	1	1	0	0	0	0	0	0	0	1	1	4	5	3	3.0
25	--	0	1	1	1	4	2	0	0	0	0	0	1	0	0	1	0	1	1	2	3	1	3	5	1.2
26	--	6	5	2	4	6	14	1	0	0	0	0	0	0	0	0	0	1	0	0	0	6	20	35	4.3
27	--	1	1	1	15	104	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	37	36	8.7
28	--	81	6	4	4	3	42	16	6	10	3	1	1	1	1	1	4	--	--	--	--	--	0	0	10.2
29	37	6	33	32	25	7	2	0	0	0	0	0	0	--	0	0	0	0	0	0	0	0	1	0	6.2
30	3	41	2	2	2	2	0	0	0	0	1	1	2	--	2	1	1	0	0	0	1	1	1	21	3.7
31	21	4	0	1	1	1	2	1	1	0	0	0	0	--	0	1	0	0	0	0	1	2	1	26	2.7
1	6	5	2	3	2	5	2	1	1	1	3	3	1	--	1	1	1	1	0	1	1	1	1	1	1.9
2	2	1	1	5	29	30	20	41	12	0	0	0	2	--	0	0	0	0	0	0	0	1	6	2	6.6
3	38	2	2	2	51	70	66	1	4	3	1	8	2	--	1	1	1	4	3	1	2	2	2	1	11.7
4	1	1	3	4	3	12	3	1	1	0	0	0	0	--	0	0	1	1	3	4	4	12	2	0	2.4
5	1	4	50	41	83	26	19	12	1	0	0	0	0	--	0	0	0	0	0	0	0	0	0	0	10.3
6	1	1	1	1	1	1	1	1	1	1	1	1	1	--	1	0	0	0	0	0	0	0	1	4	0.8
7	0	21	26	25	5	8	10	0	0	0	0	1	1	--	1	1	1	1	0	1	1	2	1	0	4.6
8	0	1	1	1	1	1	1	1	1	1	0	0	0	--	0	0	0	0	1	1	1	1	1	1	0.7
9	1	0	0	1	0	3	1	1	1	1	0	0	0	--	0	0	0	0	1	0	4	0	0	0	0.6
10	0	1	1	1	1	1	1	1	0	1	1	0	0	--	0	--	--	--	--	--	--	--	--	--	0.6
	8.5	8.9	7.5	9.3	11.9	15.1	8.8	3.6	1.5	1.2	1.1	1.2	1.2	3.4	2.9	2.5	2.3	1.8	1.5	1.2	2.7	4.6	7.1	11.3	
	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: 106 First Occurrence on Day 11 Hour 24 Frequency: 1 Minimum Value in Table: 0 First Occurrence on Day 10 Hour 15 Frequency: 267 Maximum Daily Value: 22 First Occurrence on Day 14 Minimum Daily Value: 0 First Occurrence on Day 22 Maximum Diurnal Value: 15 First Occurrence at Hour 6 Minimum Diurnal Value: 1 First Occurrence at Hour 11 Monthly Mean: 5.0 Percentiles: P10 = 0.3 Q1 = 0.4 Median = 0.7 Q3 = 2.5 P90 = 14.7																									

Bentley TRS Maximum Values



Parkland Airshed Management Zone

Bentley - TRS - May 9, 2002 19:00 to June 10, 2002 15:00



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

AMS 110 (Bentley)
May 9, 2002 to June 11, 2002
NO2 (ppb)

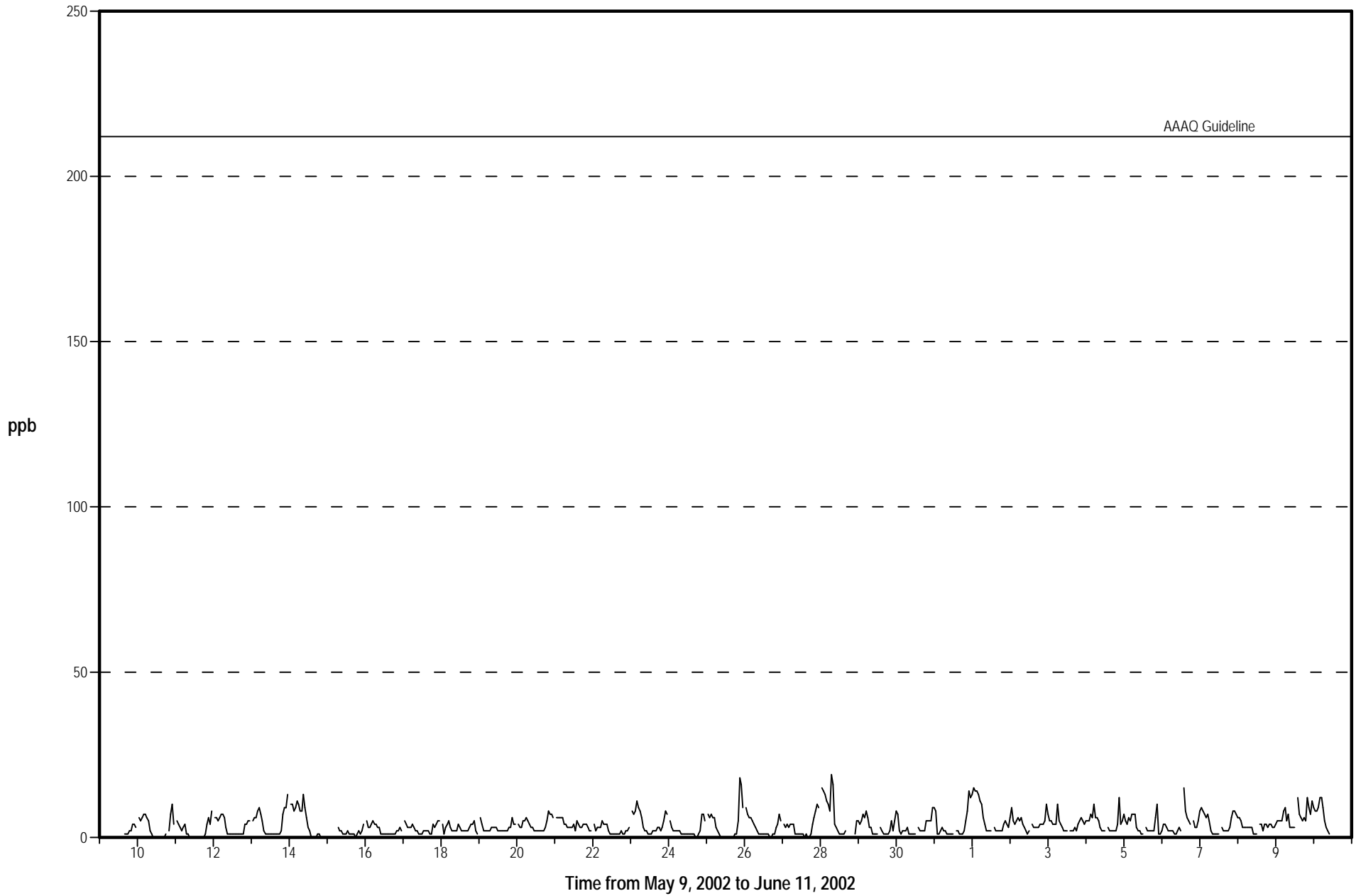
Day	Hourly Period Ending At																								Daily Average
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
9	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	CAL	CAL	CAL	CAL	CAL	1	1	1	2	2	4	4	3	2.3
10	ZS	6	5	6	7	7	6	5	2	1	0	0	0	0	0	0	0	0	1	PF	2	7	10	4	3.1
11	ZS	5	4	3	2	3	4	1	1	0	0	0	0	0	0	0	0	0	1	4	6	4	8	2.0	
12	ZS	6	6	5	6	7	7	6	3	1	1	1	1	1	1	1	1	1	1	1	4	4	5	5	3.3
13	ZS	5	6	6	8	9	7	5	2	1	1	1	1	1	1	1	1	1	1	2	7	9	9	13	4.3
14	ZS	10	10	8	9	11	10	8	8	13	9	6	3	2	0	0	0	0	1	1	0	PF	PF	PF	5.5
15	PF	PF	PF	PF	PF	ZS	ZS	3	2	2	1	1	1	2	1	1	1	1	0	1	2	1	2	4	1.5
16	ZS	5	3	3	4	5	4	4	3	3	1	1	1	1	1	1	1	1	1	2	2	3	2	2.3	
17	ZS	5	4	3	3	3	4	3	2	2	1	1	1	2	2	2	2	1	1	4	3	4	5	5	2.7
18	ZS	4	1	3	4	5	3	2	2	2	2	4	3	2	2	2	2	2	3	4	4	5	2	1	2.8
19	ZS	6	4	2	2	2	2	2	3	3	3	3	2	2	2	2	2	2	2	3	3	6	4	4	2.9
20	ZS	4	3	3	5	5	6	5	4	3	3	2	2	2	2	2	2	2	3	5	8	7	7	6	4.0
21	ZS	6	6	6	6	6	4	4	3	3	3	3	4	2	5	4	3	3	4	4	4	3	2	2	3.9
22	ZS	4	2	3	3	3	5	4	4	4	2	1	1	1	1	1	1	1	2	1	1	2	2	3	2.3
23	ZS	8	7	8	11	9	8	6	3	2	2	1	1	1	2	2	2	3	3	2	3	5	8	7	4.5
24	ZS	5	3	2	2	2	2	2	1	1	1	1	1	1	1	1	0	0	1	2	7	7	5	2.1	
25	ZS	7	6	7	6	6	3	2	1	0	0	0	0	0	0	0	0	0	1	1	5	18	16	9	3.8
26	ZS	9	7	6	6	5	4	3	2	1	1	1	1	1	1	1	0	0	1	1	3	4	7	5	3.0
27	ZS	4	3	4	3	4	4	4	1	1	1	1	1	1	0	1	0	0	1	4	6	8	10	9	3.1
28	ZS	15	14	13	11	10	8	19	16	4	3	2	1	1	1	1	2	CAL	CAL	CAL	CAL	CAL	1	5	7.1
29	5	4	5	7	6	8	6	3	3	1	1	1	1	ZS	3	2	1	1	1	1	2	5	2	5	3.2
30	8	7	2	1	2	2	2	3	1	1	1	1	1	ZS	3	2	2	2	2	5	5	5	5	9	3.1
31	9	8	1	1	2	3	2	2	1	1	1	1	1	ZS	2	2	1	1	1	2	5	8	14	12	3.5
1	13	15	14	14	13	11	10	6	4	2	2	2	2	ZS	3	2	2	2	2	2	4	5	4	3	6.0
2	6	9	5	4	5	6	5	6	4	3	2	1	2	ZS	4	3	3	3	3	4	4	4	5	10	4.4
3	7	5	5	4	4	4	10	5	4	3	2	2	2	ZS	2	2	2	3	2	4	5	6	5	4	4.0
4	5	5	5	7	6	10	6	6	5	3	2	2	2	ZS	3	2	2	2	2	2	4	12	4	5	4.4
5	7	5	4	6	5	7	7	7	3	2	2	1	1	ZS	3	2	2	2	2	2	6	10	1	1	3.8
6	2	4	4	3	2	2	2	2	1	1	2	3	2	ZS	15	8	6	5	4	UO	5	3	3	5	3.8
7	8	9	8	7	6	7	5	2	1	1	1	1	1	ZS	3	2	2	2	2	3	6	8	8	7	4.3
8	6	6	5	3	3	3	3	3	3	3	1	1	1	ZS	4	4	2	4	4	3	4	4	3	3	3.3
9	4	5	5	5	5	8	9	5	7	3	3	3	3	ZS	12	7	6	5	6	5	12	9	7	11	6.3
10	9	8	8	9	12	12	9	5	3	2	1	CAL	CAL	CAL	CAL	NS	NS	NS	NS	NS	NS	NS	NS	NS	7.1
	6.8	6.6	5.3	5.2	5.5	6.0	5.4	4.5	3.2	2.3	1.8	1.6	1.4	1.2	2.6	2.0	1.7	1.6	1.9	2.5	4.1	6.0	5.5	5.6	

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: 19	First Occurrence on Day 28 Hour 8	Frequency: 1	Hours in Service:	772
Minimum Value in Table: 0	First Occurrence on Day 10 Hour 11	Frequency: 40	Hours of Data:	716
Maximum Daily Value: 7.1	First Occurrence on Day 10	Minimum Daily Value: 2	Hours of Missing Data:	56
Maximum Diurnal Value: 7	First Occurrence at Hour 1	Minimum Diurnal Value: 1	Hours of Calibration:	46
Monthly Mean: 3.7	Percentiles: P10 = 0.7 Q1 = 1.5 Median = 2.8 Q3 = 5.2 P90 = 7.8	First Occurrence at Hour 14	Percent Operational Time:	98.70

Bentley NO2 Hourly Averages



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

AMS 110 (Bentley)
May 2002
NO2 (ppb)

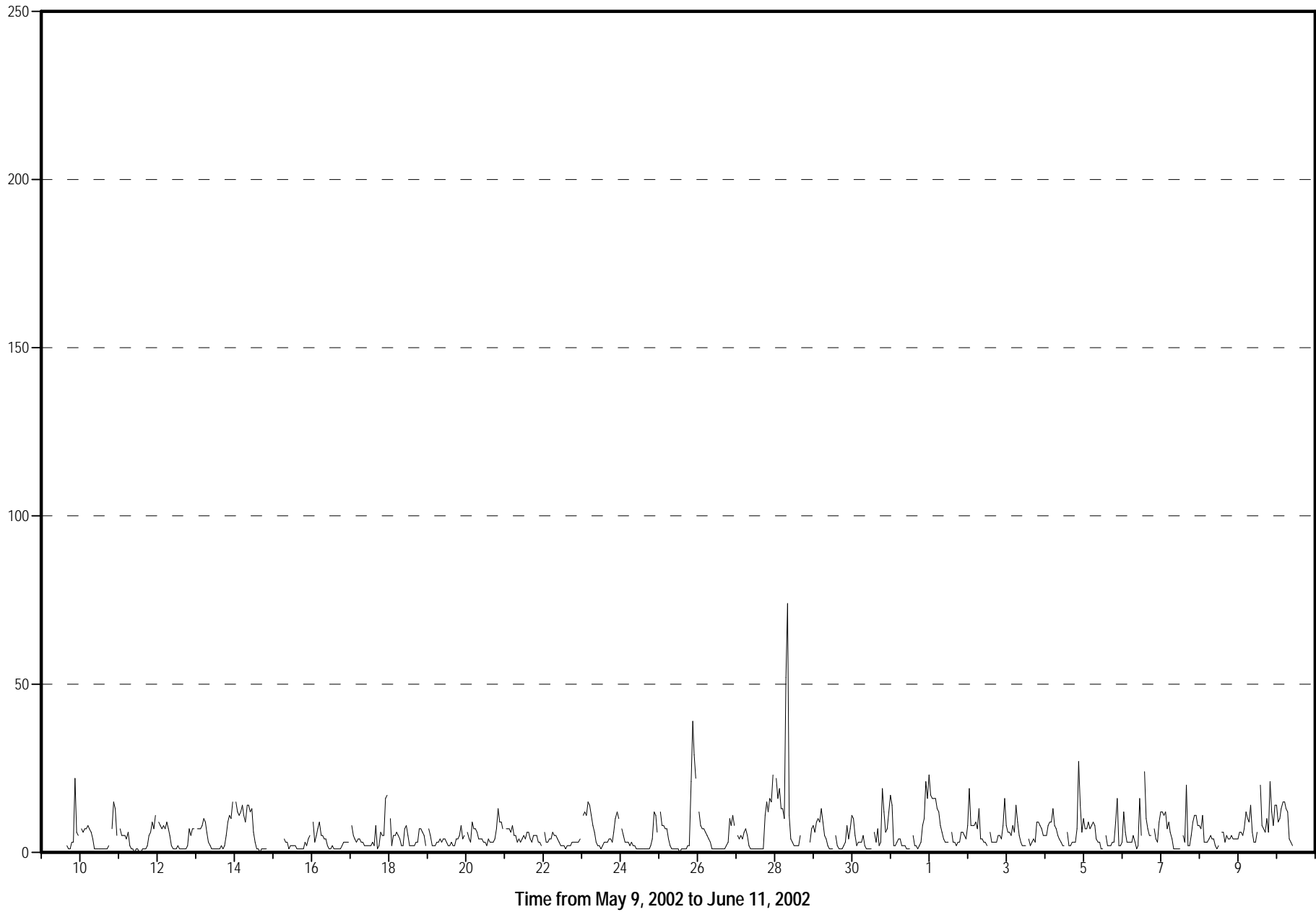
Day	Hourly Period Ending At																								Daily Average
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2	1	1	3	3	22	6	5	5.4
10	--	7	6	7	7	8	7	6	4	1	1	1	1	1	1	1	1	1	2	--	7	15	13	5	4.7
11	--	7	5	5	5	4	6	2	1	1	0	1	1	0	0	1	1	1	2	5	6	9	7	11	3.5
12	--	9	8	7	8	7	9	7	5	2	1	1	1	2	1	1	1	1	1	2	7	5	7	7	4.3
13	--	7	7	7	8	10	9	6	3	2	1	1	1	1	1	1	2	1	2	5	9	11	10	15	5.2
14	--	15	12	11	12	14	11	9	14	14	12	13	6	3	1	1	0	1	1	1	1	--	--	--	7.6
15	--	--	--	--	--	--	--	4	3	3	1	2	2	2	2	1	1	1	1	1	3	2	4	5	2.2
16	--	9	3	5	7	9	5	5	4	4	2	1	1	2	1	1	1	1	1	2	3	3	3	3	3.3
17	--	8	5	4	3	4	4	3	3	2	2	2	2	2	3	2	8	1	2	6	5	5	16	17	4.7
18	--	10	2	5	5	6	5	4	2	2	7	8	5	2	2	2	2	3	3	7	7	6	5	2	4.4
19	--	7	5	2	2	2	3	3	4	3	4	4	3	2	2	3	2	2	4	4	5	8	4	5	3.6
20	--	6	4	3	9	7	7	6	4	4	4	3	3	2	4	3	3	3	4	7	13	9	9	7	5.4
21	--	7	7	7	6	8	5	5	3	4	3	4	5	4	6	6	4	3	5	5	5	3	3	2	4.8
22	--	6	3	3	4	4	6	5	5	4	3	2	2	2	1	2	2	2	3	3	3	3	3	4	3.3
23	--	11	12	11	15	14	11	8	6	3	2	2	1	2	3	3	3	4	4	3	6	10	12	10	6.8
24	--	7	5	3	3	3	2	3	2	2	1	1	1	1	1	1	1	1	1	2	4	12	11	6	3.2
25	--	12	8	8	7	7	4	2	1	1	1	1	1	0	1	1	1	1	2	2	21	39	29	22	7.5
26	--	12	8	7	7	6	5	4	3	1	1	1	1	1	1	1	1	1	2	3	10	8	11	8	4.5
27	--	5	4	5	4	6	7	5	2	1	1	1	1	1	1	1	1	1	11	15	12	16	15	23	6.0
28	--	22	16	19	13	13	10	52	74	11	4	3	2	2	2	2	5	--	--	--	--	--	3	7	14.4
29	8	6	9	10	9	13	9	5	4	2	1	1	1	1	--	5	2	1	1	2	3	8	4	7	4.9
30	11	10	5	2	3	3	3	5	2	1	1	1	1	--	6	3	7	2	3	19	12	6	7	12	5.4
31	17	14	2	2	3	4	4	2	2	2	1	1	1	--	5	2	2	1	2	3	8	10	21	16	5.4
1	23	17	16	16	16	13	12	8	6	4	3	3	3	--	6	3	3	2	3	3	6	6	5	4	7.9
2	8	19	8	8	8	9	7	13	4	4	3	3	2	--	6	3	3	3	3	5	5	4	8	16	6.6
3	8	6	6	5	8	6	14	9	5	3	2	2	2	--	4	2	3	4	3	9	9	8	7	5	5.7
4	5	5	8	9	9	13	8	7	5	4	3	2	2	--	6	2	2	3	3	3	7	27	14	6	6.7
5	10	7	7	9	7	8	9	8	4	3	3	1	1	--	5	2	2	2	3	3	9	16	2	2	5.3
6	3	12	6	3	3	3	3	5	3	1	2	16	5	--	24	10	7	5	5	--	7	4	3	9	6.3
7	12	12	11	12	7	9	6	4	1	1	1	1	1	--	5	3	20	2	2	5	9	11	11	8	6.7
8	8	7	11	3	3	3	4	5	4	4	2	1	2	--	6	6	3	5	4	4	5	4	4	4	4.4
9	4	6	6	5	7	12	10	9	14	6	3	3	6	--	20	8	7	6	10	6	21	12	8	14	8.8
10	14	9	10	13	15	15	13	12	4	3	2	--	--	--	--	--	--	--	--	--	--	--	--	--	10.0
	10.1	9.6	7.3	7.0	7.2	7.8	7.0	7.2	6.3	3.2	2.4	2.8	2.2	1.7	4.3	2.6	3.2	2.1	3.0	4.8	7.5	10.1	8.5	8.6	

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

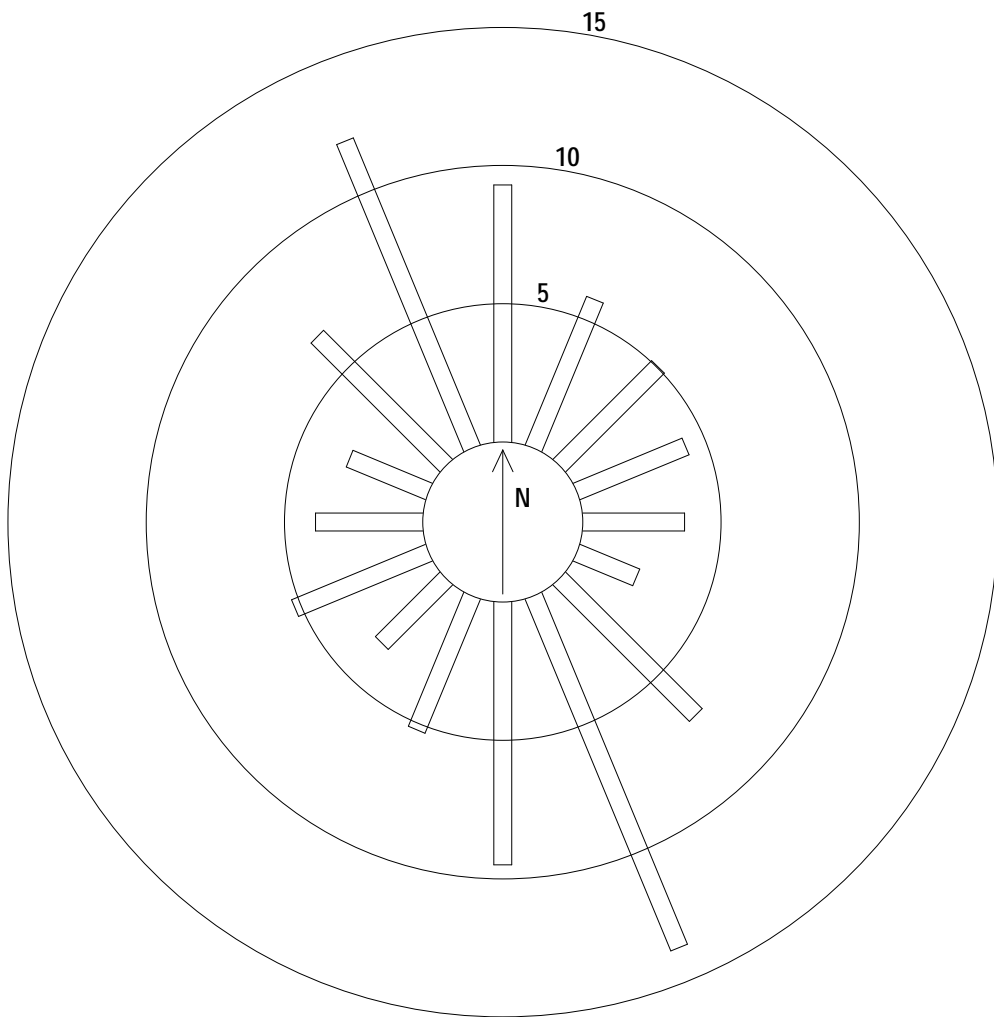
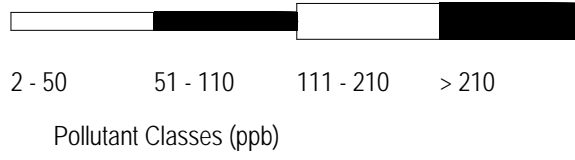
Maximum Value in Table: 74 First Occurrence on Day 28 Hour 9 Frequency: 1
Minimum Value in Table: 0 First Occurrence on Day 11 Hour 11 Frequency: 5
Maximum Daily Value: 14 First Occurrence on Day 28 Minimum Daily Value: 2 First Occurrence on Day 15
Maximum Diurnal Value: 10 First Occurrence at Hour 1 Minimum Diurnal Value: 2 First Occurrence at Hour 14
Monthly Mean: 5.6 Percentiles: P10 = 1.0 Q1 = 2.1 Median = 4.0 Q3 = 7.4 P90 = 11.8

Bentley NO2 Maximum Values



Parkland Airshed Management Zone

Bentley - NO2 - May 9, 2002 17:00 to June 10, 2002 11:00



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

AMS 110 (Bentley)
May 9, 2002 to June 11, 2002
NOX (ppb)

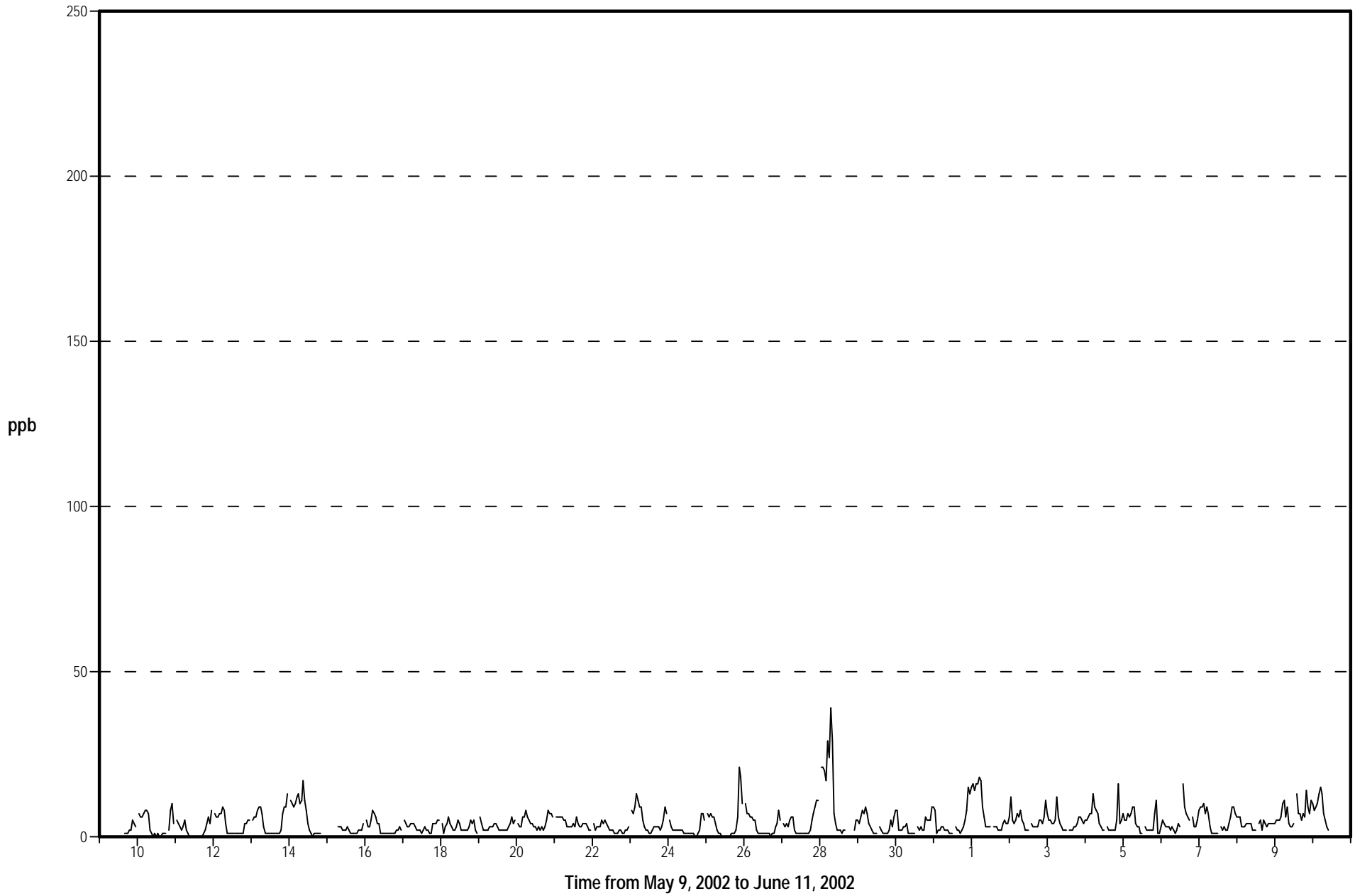
Day	Hourly Period Ending At																								Daily Average
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
9	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	CAL	CAL	CAL	CAL	CAL	1	1	1	2	2	5	4	3	2.4
10	ZS	7	6	6	7	8	8	7	2	1	0	1	0	1	0	0	1	1	1	PF	2	8	10	4	3.7
11	ZS	5	4	3	2	3	5	2	1	0	0	0	0	0	0	0	0	0	1	2	4	6	4	8	2.2
12	ZS	7	6	6	7	7	9	8	4	1	1	1	1	1	1	1	1	1	1	1	4	4	5	5	3.6
13	ZS	5	6	6	8	9	9	7	3	1	1	1	1	1	1	1	1	1	1	2	7	9	9	13	4.5
14	ZS	11	10	9	10	12	13	10	11	17	11	8	4	2	1	0	1	1	1	1	1	PF	PF	PF	6.7
15	PF	PF	PF	PF	PF	ZS	ZS	3	3	3	2	2	2	3	2	1	1	1	1	1	2	2	2	4	2.1
16	ZS	5	3	3	5	8	7	6	4	4	1	1	1	1	1	1	1	1	1	1	2	2	3	2	2.8
17	ZS	5	4	3	3	4	4	4	3	2	2	2	1	2	3	2	2	2	1	1	4	4	5	5	3.0
18	ZS	4	1	3	4	6	4	3	2	2	3	5	4	2	2	2	2	2	2	3	5	4	5	2	3.1
19	ZS	6	4	2	2	2	2	3	3	3	4	4	3	2	2	2	2	2	2	3	4	6	4	5	3.1
20	ZS	4	3	3	6	6	8	6	5	4	4	3	3	2	3	2	3	2	3	5	8	7	7	6	4.5
21	ZS	6	6	6	6	6	5	5	3	3	3	3	4	3	6	4	3	3	4	4	4	3	2	2	4.1
22	ZS	4	2	3	3	3	5	4	5	4	3	2	2	2	1	1	1	2	2	1	1	2	2	3	2.5
23	ZS	8	7	9	13	11	9	9	5	3	2	2	1	1	2	3	3	3	3	2	3	5	9	7	5.2
24	ZS	5	3	2	2	2	2	2	2	2	1	1	1	1	1	1	1	0	0	1	2	7	7	5	2.2
25	ZS	7	6	7	6	6	4	2	1	1	0	0	0	0	0	0	1	1	1	2	6	21	18	10	4.3
26	ZS	10	7	7	6	6	5	5	2	1	1	1	1	1	1	1	1	0	1	1	3	4	8	5	3.4
27	ZS	4	3	4	3	5	6	6	2	1	1	1	1	1	1	1	1	1	2	5	7	9	11	11	3.8
28	ZS	21	21	20	17	29	24	39	29	7	4	2	2	2	1	2	2	2	CAL	CAL	CAL	CAL	CAL	5	12.7
29	5	4	6	8	7	9	7	4	3	2	1	1	1	ZS	3	2	1	1	1	1	2	5	3	6	3.6
30	8	8	2	2	2	3	3	4	1	1	1	1	1	ZS	3	2	3	2	2	6	5	5	5	9	3.4
31	9	8	1	2	2	3	3	2	2	2	1	1	1	ZS	3	2	2	1	2	3	5	8	15	13	4.0
1	15	16	14	16	16	18	17	9	6	3	3	3	3	ZS	3	3	3	2	2	2	4	5	4	4	7.4
2	6	12	5	4	5	7	6	8	5	4	2	2	2	ZS	4	3	3	3	3	5	5	4	6	11	5.0
3	7	5	5	4	4	5	12	6	4	3	2	2	2	ZS	2	2	2	3	3	4	6	6	5	4	4.3
4	5	5	6	7	7	13	9	8	7	4	3	2	2	ZS	3	2	2	2	2	2	5	16	4	5	5.3
5	7	5	5	7	6	7	9	9	4	3	3	1	1	ZS	3	2	2	2	2	2	7	11	1	1	4.3
6	3	5	4	3	3	3	2	3	2	1	2	4	3	ZS	16	9	7	6	5	UO	6	3	3	5	4.5
7	8	9	9	10	7	9	7	3	1	1	1	1	1	ZS	3	2	3	2	2	4	6	9	9	7	5.0
8	6	6	6	3	3	3	4	4	4	4	2	2	2	ZS	4	5	2	5	4	3	4	4	4	4	3.8
9	4	5	5	5	6	10	11	6	9	4	3	3	4	ZS	13	7	7	5	7	6	14	9	7	11	7.0
10	10	8	9	10	13	15	13	7	5	3	2	CAL	CAL	CAL	CAL	NS	NS	NS	NS	NS	NS	NS	NS	NS	8.6
	7.2	7.1	5.8	5.9	6.2	7.7	7.5	6.4	4.5	3.0	2.2	2.0	1.8	1.5	2.9	2.1	2.1	1.9	2.1	2.8	4.5	6.5	5.8	5.9	

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: 39	First Occurrence on Day 28 Hour 8	Frequency: 1	Hours in Service:	772
Minimum Value in Table: 0	First Occurrence on Day 10 Hour 11	Frequency: 23	Hours of Data:	716
Maximum Daily Value: 12.7	First Occurrence on Day 28	Minimum Daily Value: 2	Hours of Missing Data:	56
Maximum Diurnal Value: 8	First Occurrence at Hour 6	First Occurrence on Day 15	Hours of Calibration:	46
Monthly Mean: 4.4	Percentiles: P10 = 0.9 Q1 = 1.8 Median = 3.2 Q3 = 5.7 P90 = 8.9	First Occurrence at Hour 14	Percent Operational Time:	98.70

Bentley NOX Hourly Averages



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

AMS 110 (Bentley)
May 2002
NOX (ppb)

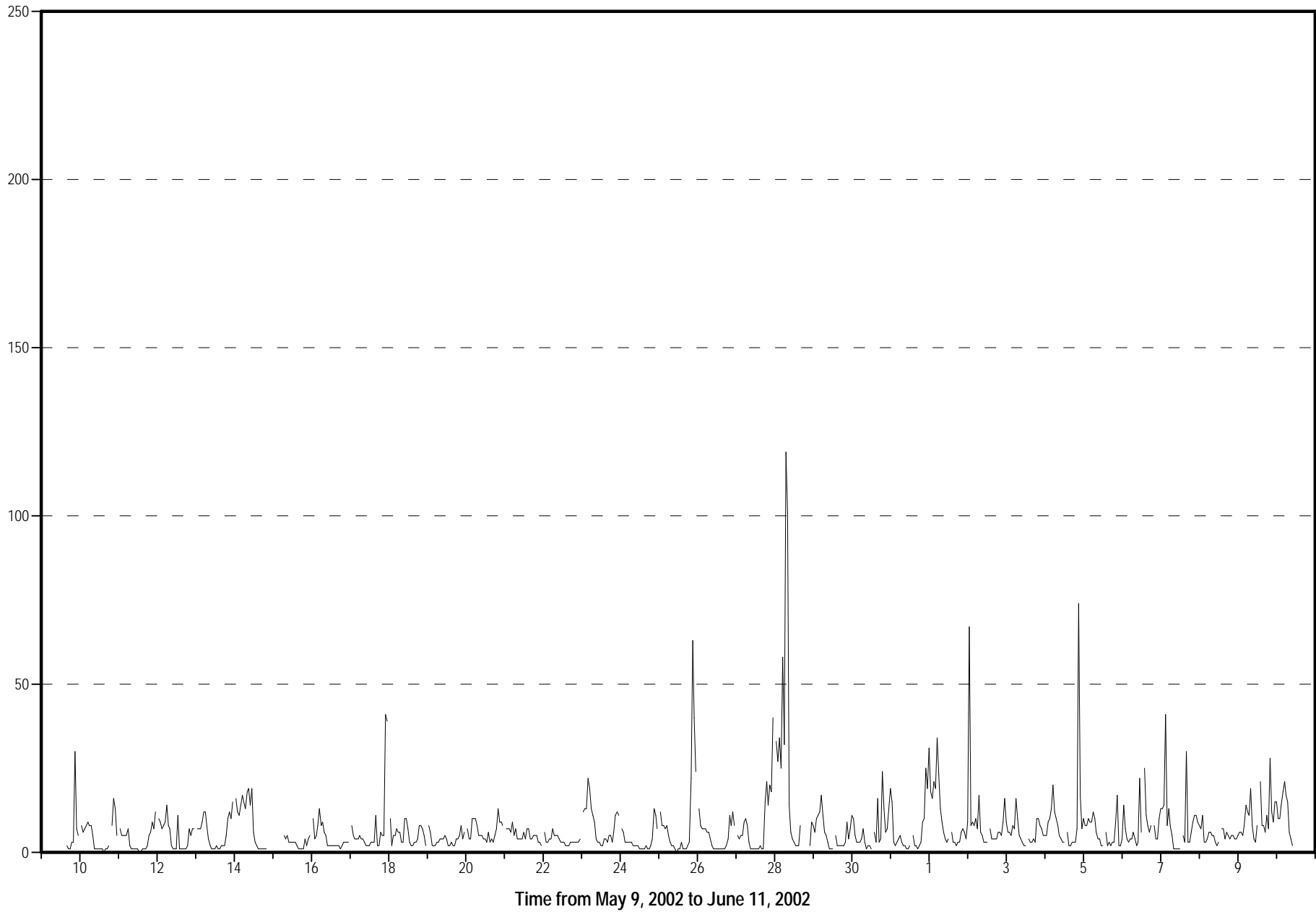
Day	Hourly Period Ending At																								Daily Average
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2	1	1	3	3	30	7	5	6.5
10	--	8	6	7	8	9	8	8	5	1	1	1	1	1	1	0	1	1	2	--	8	16	13	5	5.0
11	--	7	5	5	5	5	7	2	1	1	1	1	1	0	0	1	1	1	2	5	6	9	7	12	3.7
12	--	10	9	7	8	9	14	8	7	2	1	1	1	11	1	1	1	1	1	2	7	5	7	7	5.3
13	--	7	7	7	9	12	12	8	4	2	1	1	1	2	1	1	2	2	2	5	10	12	10	15	5.8
14	--	16	12	11	14	17	15	13	18	19	14	19	6	3	2	1	1	1	1	1	1	--	--	--	9.3
15	--	--	--	--	--	--	--	5	4	5	3	3	3	3	3	2	1	1	1	1	4	2	4	5	2.9
16	--	10	4	5	8	13	8	9	6	5	2	2	2	2	2	2	2	2	2	1	2	3	3	3	4.3
17	--	8	5	4	4	4	5	4	4	3	2	2	2	3	3	3	11	2	2	6	5	5	41	39	7.3
18	--	10	2	5	5	7	6	6	3	3	10	10	7	3	2	2	3	3	4	8	8	7	5	2	5.3
19	--	8	6	2	2	2	3	3	4	4	4	5	4	2	2	3	2	2	4	4	5	8	4	6	3.9
20	--	7	4	4	10	10	10	8	5	5	5	4	4	3	6	3	4	3	5	7	13	9	9	8	6.3
21	--	7	7	7	6	9	5	7	4	4	4	4	6	4	7	7	4	4	5	5	5	3	3	2	5.2
22	--	6	3	3	4	4	7	5	5	5	4	3	3	3	2	2	2	3	3	3	3	3	3	4	3.6
23	--	12	13	13	22	19	13	11	9	4	3	3	2	2	4	4	3	5	5	3	6	11	12	11	8.3
24	--	7	6	3	3	3	3	3	2	2	2	2	1	1	1	1	2	1	1	2	4	13	11	7	3.5
25	--	12	8	8	7	8	5	3	2	2	1	0	1	1	3	1	1	1	2	3	22	63	40	24	9.5
26	--	13	8	7	7	7	6	6	4	2	1	1	1	1	1	1	1	1	2	4	11	8	12	8	4.9
27	--	5	4	5	5	9	10	8	3	1	1	1	1	1	1	2	1	1	15	21	14	20	18	40	8.1
28	--	33	27	34	25	58	32	119	101	14	6	4	3	2	2	2	8	--	--	--	--	--	2	9	26.7
29	8	6	10	11	12	17	11	6	5	3	1	1	1	--	5	2	2	2	2	2	3	9	4	7	5.7
30	11	10	5	3	3	3	4	7	3	1	2	2	1	--	6	3	16	3	4	24	13	6	7	13	6.5
31	19	15	3	2	3	4	5	3	2	2	1	1	2	--	5	2	2	1	2	3	9	10	25	19	6.1
1	31	18	16	21	19	34	23	13	9	6	4	3	4	--	6	3	3	2	3	3	6	7	6	4	10.6
2	9	67	8	9	8	10	7	17	6	5	3	3	3	--	7	4	4	4	4	6	6	5	9	16	9.6
3	9	6	6	5	8	7	16	10	5	4	3	2	2	--	4	3	3	4	3	10	10	8	7	5	6.1
4	5	5	9	10	13	20	12	10	8	5	4	3	3	--	6	2	2	3	3	3	7	74	17	7	10.0
5	10	8	8	10	9	9	12	10	6	4	4	2	2	--	6	2	3	2	3	3	9	17	2	2	6.2
6	4	14	7	4	3	4	4	6	4	2	3	22	6	--	25	11	8	6	8	--	8	4	4	10	7.6
7	13	13	14	41	8	13	8	5	1	1	1	1	1	--	5	3	30	3	3	6	9	11	11	9	9.1
8	8	7	11	3	3	4	6	6	5	5	3	2	3	--	7	7	4	6	5	4	5	5	4	4	5.1
9	5	6	6	5	8	14	12	11	19	8	4	3	8	--	21	8	8	6	11	7	28	12	9	15	10.2
10	15	10	10	14	18	21	17	15	6	4	2	--	--	--	--	--	--	--	--	--	--	--	--	--	12.0
	11.3	12.0	8.0	8.9	8.6	11.8	9.9	11.1	8.4	4.2	3.2	3.6	2.8	2.5	4.7	2.9	4.3	2.5	3.5	5.4	8.1	13.2	10.2	10.4	

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: 119 First Occurrence on Day 28 Hour 8 Frequency: 1
Minimum Value in Table: 0 First Occurrence on Day 10 Hour 16 Frequency: 4
Maximum Daily Value: 27 First Occurrence on Day 28 Minimum Daily Value: 3 First Occurrence on Day 15
Maximum Diurnal Value: 13 First Occurrence at Hour 22 Minimum Diurnal Value: 3 First Occurrence at Hour 18
Monthly Mean: 7.1 Percentiles: P10 = 1.3 Q1 = 2.5 Median = 4.7 Q3 = 8.4 P90 = 13.8

Bentley NOX Maximum Values



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

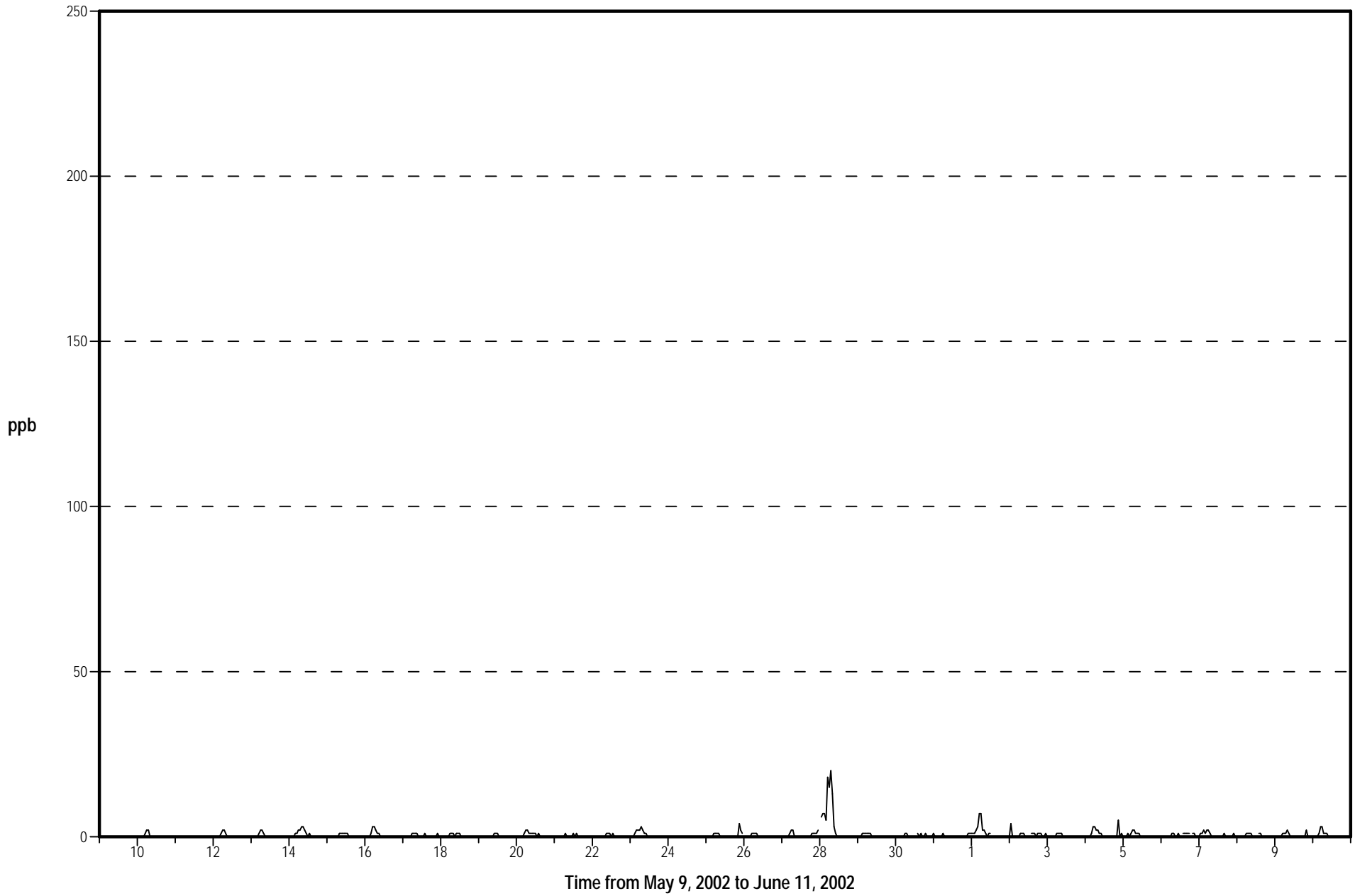
AMS 110 (Bentley)
May 9, 2002 to June 11, 2002
NO (ppb)

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	
9	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	CAL	CAL	CAL	CAL	CAL	0	0	0	0	0	0	0	0	0.0
10	ZS	0	0	0	0	1	2	2	0	0	0	0	0	0	0	0	0	0	0	PF	0	0	0	0	0.2
11	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
12	ZS	0	0	0	0	1	2	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3
13	ZS	0	0	0	0	1	2	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3
14	ZS	0	0	0	1	1	2	2	3	3	2	1	0	1	0	0	0	0	0	0	0	PF	PF	PF	0.8
15	PF	PF	PF	PF	PF	ZS	ZS	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0.4
16	ZS	0	0	0	1	3	3	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5
17	ZS	0	0	0	0	0	1	1	1	1	1	0	0	1	0	0	0	0	0	0	0	0	1	0	0.3
18	ZS	0	0	0	0	0	1	1	1	1	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0.3
19	ZS	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0.1
20	ZS	0	0	0	0	1	2	2	1	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0.5
21	ZS	0	0	0	0	0	0	1	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0.1
22	ZS	0	0	0	0	0	0	0	0	0	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0.2
23	ZS	0	0	1	2	2	2	3	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0.6
24	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
25	ZS	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	4	2	1	0.5
26	ZS	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2
27	ZS	0	0	0	0	1	2	2	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0.5
28	ZS	6	7	7	5	18	15	20	13	3	1	0	0	0	0	0	0	0	CAL	CAL	CAL	CAL	CAL	0	5.3
29	0	0	0	1	1	1	1	1	1	0	0	0	0	ZS	0	0	0	0	0	0	0	0	0	0	0.3
30	0	0	0	0	0	0	1	1	0	0	0	0	0	ZS	1	0	1	0	0	1	0	0	0	0	0.2
31	1	0	0	0	0	0	1	0	0	0	0	0	0	ZS	0	0	0	0	0	0	0	0	1	1	0.2
1	1	1	1	2	3	7	7	2	2	1	0	1	1	ZS	0	0	0	0	0	0	0	0	0	0	1.3
2	0	4	0	0	0	0	0	1	1	1	0	0	0	ZS	1	1	1	0	1	1	1	0	0	1	0.6
3	0	0	0	0	0	0	1	1	1	1	0	0	0	ZS	0	0	0	0	0	0	0	0	0	0	0.2
4	0	0	0	0	1	3	3	2	2	1	1	0	0	ZS	0	0	0	0	0	0	0	5	0	1	0.8
5	0	0	0	1	0	1	2	2	1	1	1	0	0	ZS	0	0	0	0	0	0	0	0	0	0	0.4
6	0	0	0	0	0	0	0	1	1	0	0	1	0	ZS	1	1	1	1	1	UO	1	1	0	0	0.5
7	0	1	1	2	1	2	2	1	0	0	0	0	0	ZS	0	0	1	0	0	0	0	0	1	0	0.5
8	0	0	0	0	0	0	1	1	1	1	0	0	0	ZS	1	1	0	0	0	0	0	0	0	0	0.3
9	0	0	0	0	0	1	1	1	2	1	0	0	0	ZS	0	0	0	0	0	0	2	0	0	0	0.3
10	0	0	0	0	1	3	3	1	1	1	0	CAL	CAL	CAL	CAL	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.9
	0.2	0.4	0.3	0.5	0.5	1.6	1.9	1.8	1.3	0.6	0.3	0.3	0.2	0.2	0.2	0.1	0.1	0.0	0.1	0.1	0.2	0.4	0.2	0.2	

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: 20	First Occurrence on Day 28 Hour 8	Frequency: 1	Hours in Service: 772
Minimum Value in Table: 0	First Occurrence on Day 9 Hour 17	Frequency: 521	Hours of Data: 716
Maximum Daily Value: 5.3	First Occurrence on Day 28	Minimum Daily Value: 0	Hours of Missing Data: 56
Maximum Diurnal Value: 2	First Occurrence at Hour 7	Minimum Diurnal Value: 0	Hours of Calibration: 46
Monthly Mean: 0.5	Percentiles: P10 = 0.0 Q1 = 0.1 Median = 0.3 Q3 = 0.5 P90 = 1.1	First Occurrence at Hour 18	Percent Operational Time: 98.70

Bentley NO Hourly Averages



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

AMS 110 (Bentley)
May 2002
NO (ppb)

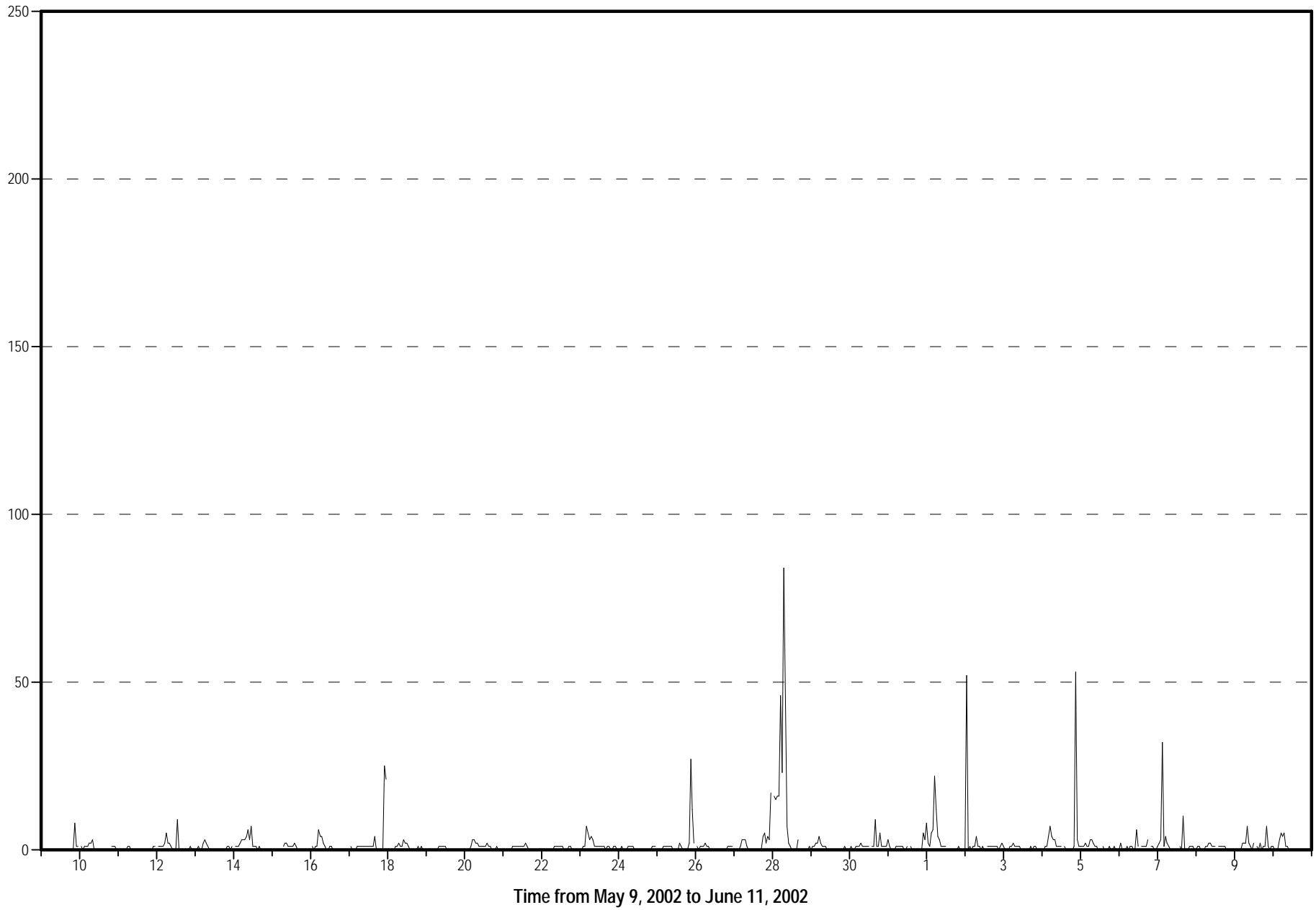
Day	Hourly Period Ending At																								Daily Average
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	8	1	1	1.3
10	--	1	0	1	1	1	2	2	3	0	0	0	0	0	0	0	0	0	0	--	1	1	1	0	0.6
11	--	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0.2
12	--	1	1	1	1	2	5	2	2	1	0	0	0	9	0	0	0	0	0	0	0	1	0	0	1.1
13	--	0	1	0	0	2	3	2	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1	0.5
14	--	1	1	1	2	3	3	3	4	6	3	7	1	1	1	0	1	0	0	0	0	--	--	--	1.9
15	--	--	--	--	--	--	--	1	2	2	1	1	1	1	2	1	0	0	0	0	0	0	0	0	0.7
16	--	1	0	1	1	6	4	4	2	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1.0
17	--	1	0	0	0	1	1	1	1	1	1	1	1	1	1	1	4	0	0	0	0	0	0	25	2.7
18	--	0	0	0	0	1	1	2	1	1	3	2	2	1	0	0	0	0	0	1	0	1	0	0	0.7
19	--	0	0	0	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0.2
20	--	0	0	0	1	3	3	2	2	1	1	1	1	1	2	1	1	0	0	0	1	0	0	0	0.9
21	--	0	0	0	0	0	1	1	1	1	1	1	1	1	2	1	0	0	0	0	0	0	0	0	0.5
22	--	0	0	0	0	0	0	0	1	1	1	1	1	1	0	0	0	1	1	0	0	0	0	0	0.3
23	--	0	1	1	7	5	3	4	3	1	1	1	1	1	1	0	1	1	1	0	0	1	1	0	1.5
24	--	0	1	0	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0.3
25	--	0	0	0	1	1	1	1	1	1	0	0	0	0	2	1	0	0	0	0	2	27	12	2	2.3
26	--	1	0	1	1	1	2	1	1	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0.5
27	--	0	0	0	1	3	3	3	1	0	0	0	0	0	0	0	0	0	0	4	5	2	4	3	2.0
28	--	16	15	16	16	46	23	84	46	7	2	1	0	0	0	0	3	--	--	--	--	--	0	1	15.3
29	0	1	1	2	2	4	2	1	1	1	0	0	0	--	0	0	0	0	0	0	1	0	0	0	0.7
30	0	1	0	0	1	1	1	2	1	1	1	1	1	--	1	1	9	1	1	5	1	1	1	1	1.4
31	3	1	0	0	0	1	1	1	1	1	0	0	1	--	1	0	0	0	0	0	0	0	5	3	0.8
1	8	2	1	5	6	22	12	4	3	1	1	1	1	--	0	0	0	0	0	0	1	0	0	0	3.0
2	0	52	0	1	0	1	1	4	1	1	0	1	0	--	1	1	1	1	1	1	1	0	1	2	3.1
3	1	0	0	0	1	1	2	1	1	1	0	0	--	0	0	0	1	0	1	1	0	0	0	0	0.5
4	0	0	1	1	4	7	4	3	3	1	1	1	1	--	1	0	0	0	0	0	1	53	3	1	3.7
5	1	1	1	2	1	1	3	3	2	1	1	0	0	--	1	0	0	0	1	0	0	1	0	0	0.9
6	0	2	0	0	0	1	0	1	1	0	0	6	1	--	1	1	1	1	3	--	1	1	0	0	1.0
7	1	2	3	32	1	4	2	1	0	0	0	0	0	--	1	0	10	0	0	0	1	1	1	0	2.6
8	0	1	1	0	0	0	1	1	2	2	1	1	1	--	1	1	1	1	1	0	0	0	0	0	0.7
9	0	0	0	0	0	2	2	7	2	1	0	2	--	1	0	2	0	1	1	7	1	0	1	0	1.4
10	1	0	0	0	3	5	4	5	1	1	0	--	--	--	--	--	--	--	--	--	--	--	--	--	1.8
	1.2	2.7	0.9	2.1	1.6	4.0	3.0	4.5	3.1	1.2	0.7	0.9	0.6	0.9	0.6	0.3	1.0	0.2	0.5	0.5	0.7	3.5	1.8	1.7	

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: 84 First Occurrence on Day 28 Hour 8 Frequency: 1
Minimum Value in Table: 0 First Occurrence on Day 9 Hour 17 Frequency: 336
Maximum Daily Value: 15 First Occurrence on Day 28 Minimum Daily Value: 0 First Occurrence on Day 11
Maximum Diurnal Value: 5 First Occurrence at Hour 8 Minimum Diurnal Value: 0 First Occurrence at Hour 18
Monthly Mean: 1.6 Percentiles: P10 = 0.3 Q1 = 0.3 Median = 0.6 Q3 = 1.2 P90 = 2.8

Bentley NO Maximum Values

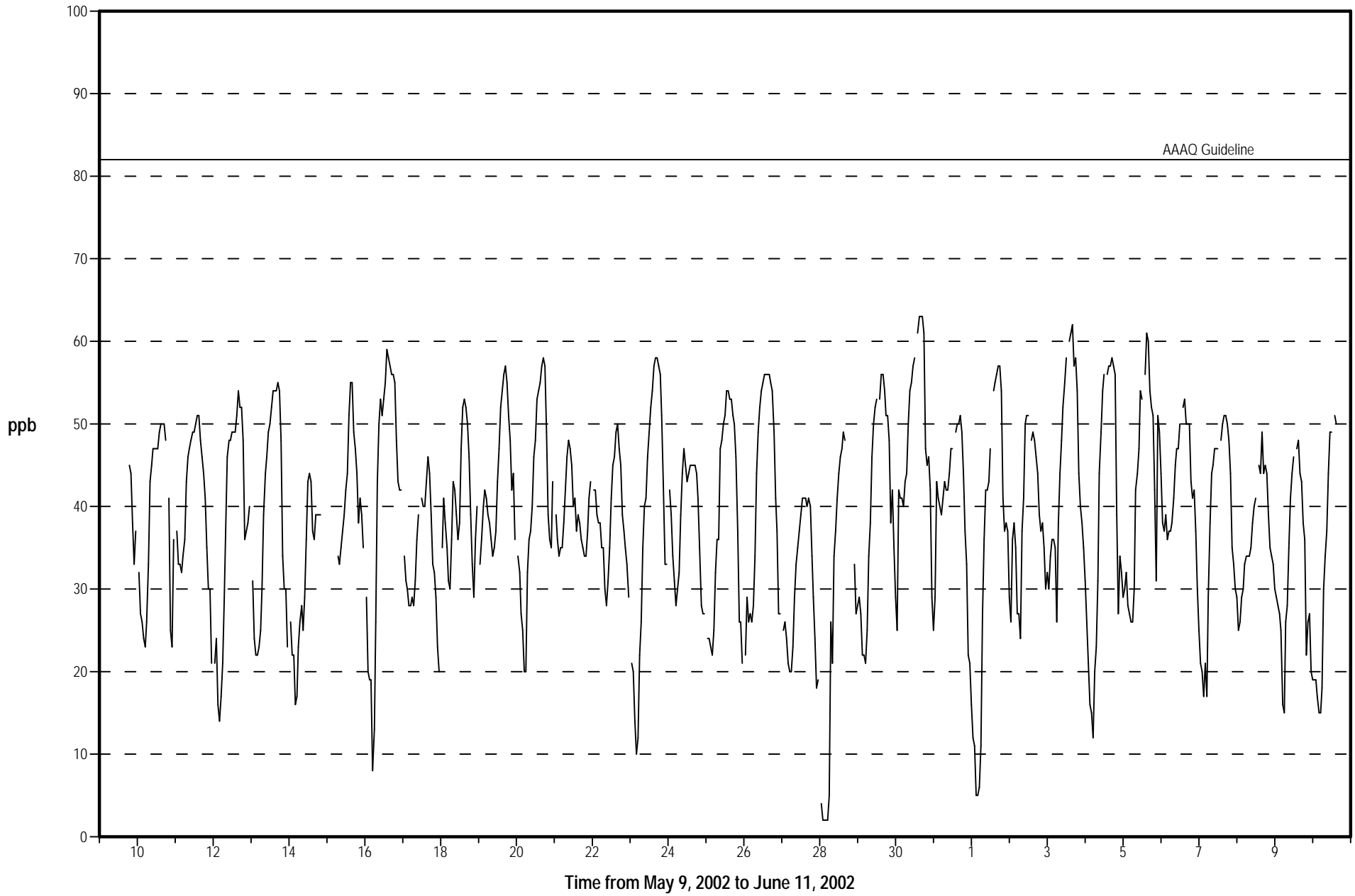


**Parkland Airshed Management Zone
Summary of Hourly Averages**

AMS 110 (Bentley)
May 9, 2002 to June 11, 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																	
9	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	CAL	CAL	CAL	CAL	45	44	38	33	37	39.4																
10	ZS	32	27	26	24	23	26	33	43	45	47	47	47	47	49	50	50	50	48	PF	41	25	23	36	38.1																
11	ZS	37	33	33	32	34	36	43	46	47	48	49	49	50	51	51	48	46	44	41	35	30	30	21	40.6																
12	ZS	21	24	16	14	17	21	29	37	46	48	48	49	49	49	51	54	52	52	48	36	37	38	40	38.1																
13	ZS	31	24	22	22	23	25	30	39	44	46	49	50	52	54	54	54	55	54	48	34	30	30	23	38.8																
14	ZS	26	22	22	16	17	23	26	28	25	29	36	43	44	43	37	36	39	39	39	39	PF	PF	PF	31.5																
15	PF	PF	PF	PF	PF	ZS	ZS	34	33	35	37	39	42	44	51	55	55	49	47	44	38	41	39	35	42.2																
16	ZS	29	20	19	19	8	13	26	43	50	53	51	53	55	59	58	57	56	56	55	48	43	42	42	41.5																
17	ZS	34	31	30	28	28	29	28	31	36	39	PF	41	40	40	43	46	44	39	33	32	29	23	20	33.8																
18	ZS	35	41	38	35	31	30	36	43	42	39	36	38	47	52	53	52	50	46	39	33	29	36	40	40.0																
19	ZS	33	36	40	42	41	39	38	36	34	35	37	43	47	52	54	56	57	55	51	48	42	44	36	43.3																
20	ZS	34	32	27	25	20	20	32	36	37	40	46	48	53	54	55	57	58	57	49	39	36	35	43	40.6																
21	ZS	39	36	34	35	35	38	42	46	48	47	45	40	41	37	39	38	36	35	34	34	37	41	43	39.1																
22	ZS	42	42	39	38	38	35	35	30	28	31	35	41	45	46	49	50	47	45	39	37	35	33	29	38.7																
23	ZS	21	20	14	10	12	22	26	35	40	41	46	49	52	54	57	58	58	57	56	51	43	33	33	38.6																
24	ZS	42	39	34	31	28	30	32	39	44	47	45	43	44	45	45	45	45	44	41	35	28	27	27	38.3																
25	ZS	24	24	23	22	25	32	36	36	47	48	50	51	54	54	53	53	51	50	46	37	26	26	21	38.7																
26	ZS	22	29	26	27	26	28	34	44	49	52	54	55	56	56	56	56	55	54	49	41	37	27	27	41.7																
27	ZS	25	26	24	21	20	20	23	29	33	35	37	39	41	41	41	40	41	40	34	29	24	18	19	30.4																
28	ZS	4	2	2	2	2	5	26	21	34	37	41	44	46	47	49	48	CAL	CAL	CAL	CAL	CAL	33	27	26.1																
29	28	29	27	22	22	21	25	34	38	46	50	52	53	ZS	53	56	56	54	51	51	48	38	42	35	40.5																
30	29	25	42	41	41	40	43	44	50	54	55	57	58	ZS	61	63	63	63	61	47	45	46	42	29	47.8																
31	25	29	43	41	40	39	41	43	42	42	44	47	47	ZS	49	50	50	51	49	44	37	33	22	21	40.4																
1	16	12	11	5	5	6	11	27	36	42	42	43	47	ZS	54	55	56	57	57	54	41	37	38	37	34.3																
2	29	26	36	38	35	27	27	24	37	41	50	51	51	ZS	48	49	48	46	44	39	37	38	35	30	38.5																
3	32	30	34	36	36	35	26	38	44	48	52	55	58	ZS	60	61	62	57	58	54	44	40	38	35	44.9																
4	31	26	21	16	15	12	20	23	31	44	49	54	56	ZS	56	57	57	58	57	56	39	27	34	32	37.9																
5	29	30	32	28	27	26	26	30	42	44	47	54	53	ZS	56	61	60	54	52	51	42	31	51	49	42.4																
6	44	38	37	39	36	37	37	38	41	45	47	47	50	ZS	52	53	50	50	50	43	41	42	37	30	42.8																
7	25	21	20	17	21	17	29	38	44	45	47	47	47	ZS	48	50	51	51	50	48	44	35	33	30	37.3																
8	29	25	26	29	30	33	34	34	34	35	38	40	41	ZS	45	44	49	44	45	44	39	35	34	33	36.5																
9	30	29	28	27	25	16	15	26	28	35	41	44	46	ZS	47	48	44	43	38	36	22	26	27	20	32.2																
10	19	19	19	17	15	15	18	30	34	37	44	49	49	ZS	51	50	CAL	CAL	NS	NS	NS	NS	NS	NS	31.1																
	28.2	28.1	28.5	26.6	25.5	24.3	26.6	32.4	37.4	41.3	43.9	46.2	47.5	47.7	50.4	51.5	51.6	50.6	49.1	45.3	39.0	34.6	33.7	31.6																	
	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: 63				First Occurrence on Day 30 Hour 16				Frequency: 3				Hours in Service: 771				771																									
Minimum Value in Table: 2				First Occurrence on Day 28 Hour 3				Frequency: 4				Hours of Data: 717				717																									
Maximum Daily Value: 47.8				First Occurrence on Day 30				Minimum Daily Value: 26				First Occurrence on Day 28				Hours of Missing Data: 54				54																					
Maximum Diurnal Value: 52				First Occurrence at Hour 17				Minimum Diurnal Value: 24				First Occurrence at Hour 6				Hours of Calibration: 44				44																					
Monthly Mean: 38.5				Percentiles: P10 = 22.3 Q1 = 30.0 Median = 39.1 Q3 = 47.7 P90 = 54.0								Percent Operational Time: 98.70				98.70																									

Bentley O3 Hourly Averages



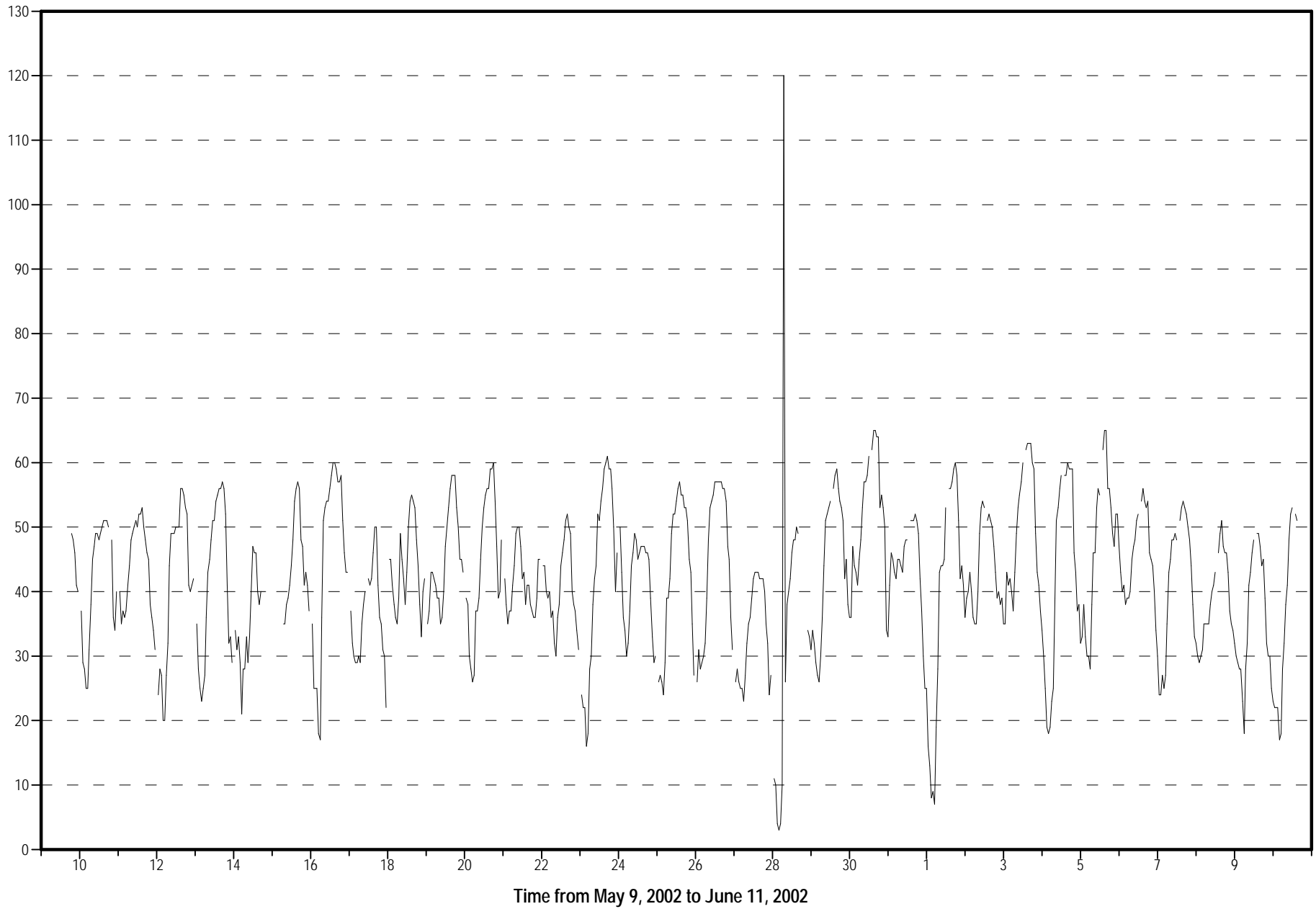
**Parkland Airshed Management Zone
Summary of Maximum Value in each Hour**

AMS 110 (Bentley)
May 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	
9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	49	48	46	41	40	44.8
10	--	37	29	28	25	25	31	38	45	47	49	49	48	49	50	51	51	51	50	--	48	36	34	40	41.4
11	--	40	35	37	36	37	41	44	48	49	50	51	50	52	52	53	50	48	46	45	38	36	34	31	43.6
12	--	24	28	27	20	20	27	32	44	49	49	49	50	50	50	56	56	55	53	52	41	40	41	42	41.5
13	--	35	28	25	23	25	27	36	43	45	48	51	51	54	55	56	56	57	56	52	41	32	33	29	41.7
14	--	34	31	33	29	21	28	28	33	29	33	40	47	46	46	40	38	40	40	40	40	--	--	--	35.8
15	--	--	--	--	--	--	--	35	35	38	39	41	44	48	54	56	57	56	48	47	41	43	41	37	44.7
16	--	35	25	25	25	18	17	36	51	53	54	54	56	58	60	60	59	57	57	58	51	46	43	43	45.3
17	--	37	32	30	29	29	30	29	35	38	40	--	42	41	42	46	50	50	41	36	35	31	30	22	36.1
18	--	45	45	41	38	36	35	39	49	45	42	38	43	50	54	55	54	53	48	44	38	33	40	42	43.8
19	--	35	37	43	43	42	41	39	39	35	36	40	47	50	53	56	58	58	58	53	50	45	45	43	45.5
20	--	39	38	30	28	26	27	37	37	39	45	50	53	55	56	56	59	59	60	54	47	39	40	48	44.4
21	--	42	38	35	37	37	41	44	49	50	50	47	42	43	38	41	41	38	37	36	36	39	45	45	41.3
22	--	44	44	40	39	40	36	37	32	30	36	38	44	46	48	51	52	50	49	40	38	37	34	31	40.7
23	--	24	22	22	16	18	28	30	38	42	44	52	51	54	56	59	60	61	59	59	56	50	40	46	42.9
24	--	50	43	36	34	30	32	37	44	46	49	48	45	46	47	47	47	46	46	45	39	33	29	30	41.3
25	--	26	27	26	24	29	39	39	42	49	52	52	54	56	57	55	55	53	53	51	45	43	35	27	43.0
26	--	26	31	28	29	30	32	39	48	53	54	55	57	57	57	57	57	56	56	54	47	45	36	31	45.0
27	--	26	28	26	25	25	23	27	32	35	36	39	42	43	43	43	42	42	42	40	35	32	24	27	33.8
28	--	11	10	4	3	4	10	120	26	38	40	42	46	48	48	50	49	--	--	--	--	--	34	33	34.2
29	31	34	32	29	27	26	30	36	44	51	52	53	54	--	56	58	59	56	54	53	51	42	45	38	44.0
30	36	36	47	44	43	41	45	48	53	57	57	58	61	--	62	65	65	64	64	53	55	53	50	34	51.8
31	33	41	46	45	43	42	45	45	44	43	47	48	48	--	51	51	51	52	51	49	42	37	30	25	43.9
1	25	16	13	8	9	7	19	28	43	44	44	45	53	--	56	56	57	59	60	58	51	42	44	41	38.2
2	36	39	40	43	40	36	35	35	40	49	53	54	53	--	51	52	51	50	47	43	39	40	38	39	43.6
3	35	35	43	41	42	40	37	43	49	53	55	57	60	--	62	63	63	63	60	59	49	43	41	37	49.1
4	34	30	25	19	18	19	23	25	39	51	53	56	58	--	58	58	60	59	59	46	43	37	38	42.0	
5	32	33	38	33	30	30	28	38	46	46	53	56	55	--	62	65	65	56	56	53	49	47	52	52	46.7
6	47	43	40	41	38	39	39	40	45	47	48	51	52	--	54	56	54	53	54	46	45	44	40	34	45.7
7	30	24	24	27	25	27	35	43	45	48	48	49	48	--	51	53	54	53	52	50	48	44	38	33	41.3
8	32	30	29	30	31	35	35	35	35	38	40	41	43	--	46	49	51	47	46	46	43	37	35	34	38.6
9	32	30	29	28	28	23	18	28	32	41	43	46	48	--	49	49	47	44	45	39	32	30	30	25	35.5
10	23	22	22	22	17	18	28	32	38	41	48	52	53	--	52	51	--	--	--	--	--	--	--	--	34.6
	32.8	33.0	32.2	30.5	28.8	28.2	31.0	38.8	41.3	44.3	46.5	48.5	49.9	49.8	52.4	53.6	53.8	52.9	51.6	48.8	44.0	40.3	38.0	36.0	
	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: 120		First Occurrence on Day 28 Hour 8	
Minimum Value in Table: 3		Frequency: 1	
Maximum Daily Value: 52		First Occurrence on Day 30	
Maximum Diurnal Value: 54		Minimum Daily Value: 34	
Monthly Mean: 42.1		First Occurrence on Day 27	
Percentiles: P10 = 27.2		First Occurrence at Hour 6	
Q1 = 35.0		Minimum Diurnal Value: 28	
Median = 42.8		P90 = 56.0	
Q3 = 50.6			

Bentley O3 Maximum Values

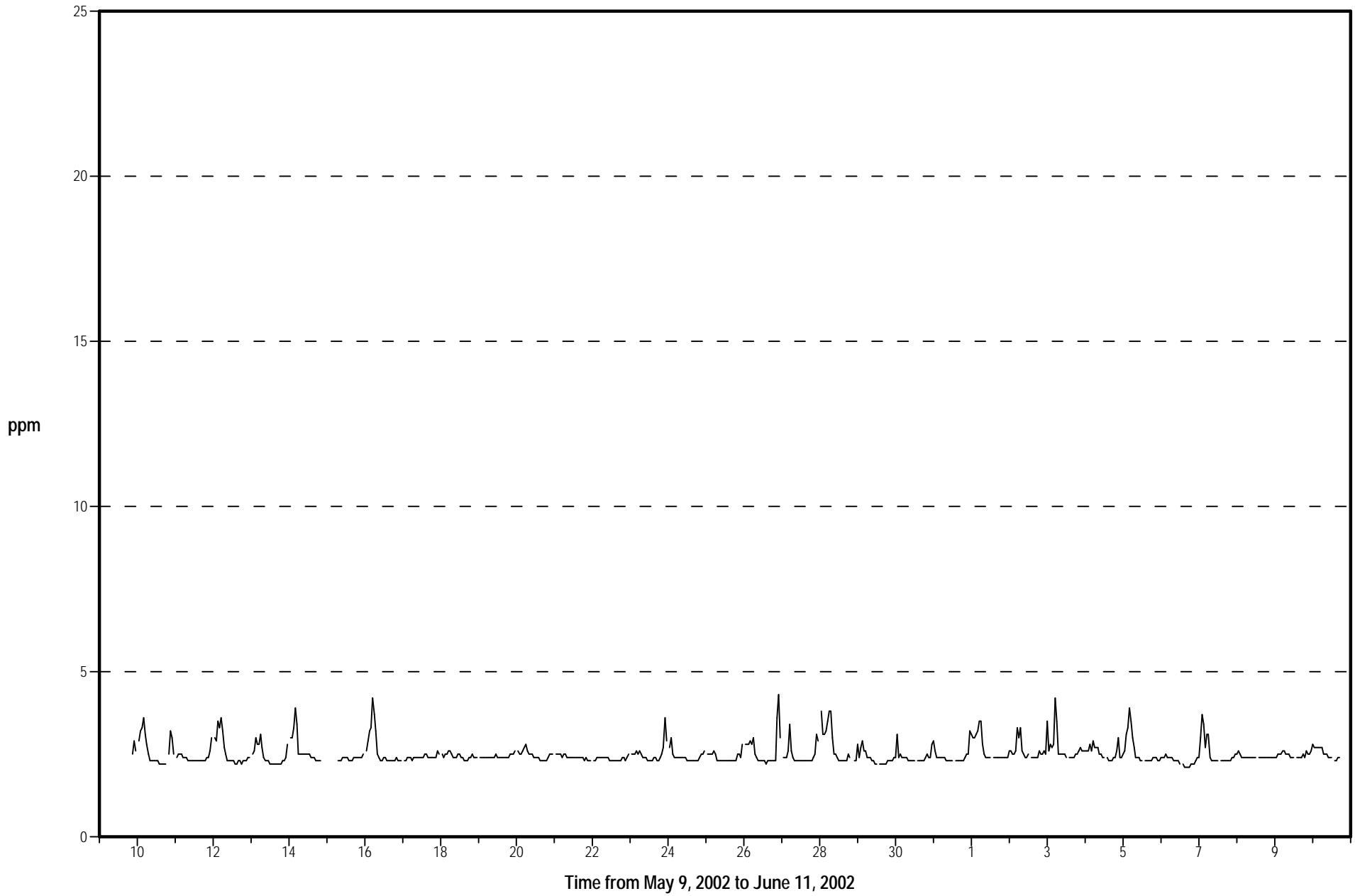


**Parkland Airshed Management Zone
Summary of Hourly Averages**

AMS 110 (Bentley)
May 9, 2002 to June 11, 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	
9	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	CAL	CAL	CAL	CAL	2.5	2.9	2.6	2.7
10	ZS	2.9	3.2	3.3	3.6	3.1	2.8	2.5	2.3	2.3	2.3	2.3	2.3	2.3	2.2	2.2	2.2	2.2	2.2	PF	2.5	3.2	3.0	2.5	2.6
11	ZS	2.4	2.5	2.5	2.5	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	2.3	2.3	2.4	2.4	2.6	3.0	2.4
12	ZS	3.0	2.9	3.5	3.3	3.6	3.2	2.7	2.5	2.3	2.3	2.3	2.3	2.3	2.2	2.2	2.3	2.3	2.2	2.3	2.3	2.3	2.4	2.4	2.6
13	ZS	2.5	2.6	3.0	2.8	2.8	3.1	2.7	2.4	2.3	2.3	2.3	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.3	2.4	2.8	2.4
14	ZS	3.0	3.0	3.3	3.9	3.4	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.4	2.4	2.4	2.3	2.3	2.3	2.3	PF	PF	PF	2.7
15	PF	PF	PF	PF	PF	ZS	ZS	2.3	2.3	2.3	2.4	2.4	2.4	2.4	2.3	2.3	2.3	2.4	2.4	2.4	2.4	2.4	2.4	2.5	2.4
16	ZS	2.6	2.9	3.2	3.3	4.2	3.7	3.2	2.5	2.4	2.3	2.3	2.4	2.4	2.3	2.3	2.3	2.3	2.3	2.3	2.4	2.3	2.3	2.3	2.6
17	ZS	2.3	2.3	2.4	2.4	2.4	2.3	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.5	2.5	2.4	2.4	2.4	2.4	2.4	2.4	2.6	2.5	2.4
18	ZS	2.5	2.4	2.5	2.5	2.6	2.6	2.5	2.4	2.4	2.4	2.4	2.5	2.5	2.4	2.4	2.3	2.3	2.3	2.4	2.4	2.5	2.4	2.4	2.4
19	ZS	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.5	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.5	2.5	2.5	2.6	2.4
20	ZS	2.6	2.5	2.5	2.6	2.7	2.8	2.6	2.5	2.5	2.5	2.4	2.4	2.4	2.4	2.3	2.3	2.3	2.3	2.3	2.4	2.5	2.5	2.5	2.5
21	ZS	2.5	2.5	2.5	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	2.3	2.4	2.3	2.3	2.3	2.4
22	ZS	2.3	2.3	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.4	2.4	2.3	2.4	2.5	2.4
23	ZS	2.5	2.5	2.5	2.6	2.5	2.6	2.5	2.4	2.4	2.4	2.3	2.3	2.3	2.3	2.4	2.4	2.3	2.3	2.4	2.5	2.7	3.6	2.9	2.5
24	ZS	2.7	3.0	2.5	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.4	2.5	2.5	2.6	2.4
25	ZS	2.5	2.5	2.5	2.5	2.6	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	2.3	2.5	2.5	2.4	2.8	2.4
26	ZS	2.8	2.8	2.8	2.9	2.8	3.0	2.5	2.4	2.3	2.3	2.3	2.3	2.3	2.2	2.3	2.3	2.3	2.3	2.3	2.3	3.6	4.3	3.0	2.6
27	ZS	2.4	2.4	2.4	2.6	3.4	2.6	2.4	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	2.5	3.1	2.9	2.5
28	ZS	3.8	3.1	3.1	3.2	3.5	3.8	3.8	3.0	2.5	2.5	2.4	2.3	2.3	2.3	2.3	2.3	2.3	2.5	2.4	CAL	CAL	2.3	2.3	2.8
29	2.8	2.4	2.7	2.9	2.6	2.6	2.4	2.4	2.4	2.3	2.3	2.2	2.2	ZS	2.2	2.2	2.2	2.2	2.2	2.3	2.3	2.3	2.3	2.4	2.4
30	2.4	3.1	2.4	2.5	2.4	2.4	2.4	2.4	2.3	2.3	2.3	2.3	2.3	ZS	2.3	2.3	2.3	2.3	2.3	2.4	2.5	2.4	2.4	2.8	2.4
31	2.9	2.6	2.4	2.4	2.4	2.4	2.4	2.4	2.3	2.3	2.3	2.3	2.3	ZS	2.3	2.3	2.3	2.3	2.3	2.3	2.4	2.5	2.5	3.2	2.4
1	3.1	3.0	3.0	3.1	3.2	3.5	3.5	2.8	2.5	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	2.4	2.7
2	2.6	2.6	2.5	2.5	2.6	3.3	3.0	3.3	2.6	2.5	2.4	2.4	2.5	ZS	2.4	2.4	2.4	2.4	2.4	2.6	2.5	2.5	2.6	2.5	2.6
3	3.5	2.6	2.8	2.7	2.8	4.2	3.5	2.5	2.5	2.5	2.5	2.5	2.4	ZS	2.4	2.4	2.4	2.4	2.5	2.5	2.6	2.7	2.6	2.6	2.7
4	2.6	2.6	2.6	2.8	2.6	2.9	2.7	2.7	2.7	2.5	2.5	2.4	2.4	ZS	2.4	2.3	2.3	2.3	2.4	2.4	2.6	3.0	2.4	2.4	2.5
5	2.5	2.6	3.1	3.3	3.9	3.5	3.0	2.7	2.4	2.4	2.4	2.3	2.3	ZS	2.3	2.3	2.3	2.3	2.3	2.4	2.4	2.4	2.3	2.3	2.6
6	2.4	2.4	2.4	2.5	2.4	2.4	2.4	2.4	2.3	2.3	2.3	2.3	2.2	ZS	2.2	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.3	2.4	2.3
7	2.4	3.0	3.7	3.4	2.7	3.1	3.1	2.4	2.3	2.3	2.3	2.3	2.3	ZS	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.4	2.4	2.5	2.6
8	2.5	2.6	2.5	2.4	2.4	2.4	2.4	2.4	2.4	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	2.4	2.4
9	2.4	2.4	2.5	2.5	2.5	2.6	2.6	2.5	2.5	2.5	2.4	2.4	2.4	ZS	2.4	2.4	2.4	2.4	2.5	2.4	2.6	2.5	2.5	2.6	2.5
10	2.8	2.7	2.7	2.7	2.7	2.7	2.7	2.5	2.5	2.5	2.4	2.4	2.4	ZS	2.3	2.3	2.4	2.4	CAL	CAL	NS	NS	NS	NS	2.5
	2.7	2.7	2.7	2.7	2.8	2.9	2.8	2.6	2.4	2.4	2.4	2.4	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.4	2.4	2.5	2.6	2.6	
	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: 4.3				First Occurrence on Day 26 Hour 23				Frequency: 1				Hours in Service: 771													
Minimum Value in Table: 2.1				First Occurrence on Day 6 Hour 16				Frequency: 4				Hours of Data: 721													
Maximum Daily Value: 2.8				First Occurrence on Day 28				Minimum Daily Value: 2.3				Hours of Missing Data: 50													
Maximum Diurnal Value: 2.9				First Occurrence at Hour 6				Minimum Diurnal Value: 2.3				Hours of Calibration: 41													
Monthly Mean: 2.50				Percentiles: P10 = 2.28 Q1 = 2.33 Median = 2.40 Q3 = 2.52 P90 = 2.87				First Occurrence at Hour 16				Percent Operational Time: 98.83													

Bentley THC Hourly Averages



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

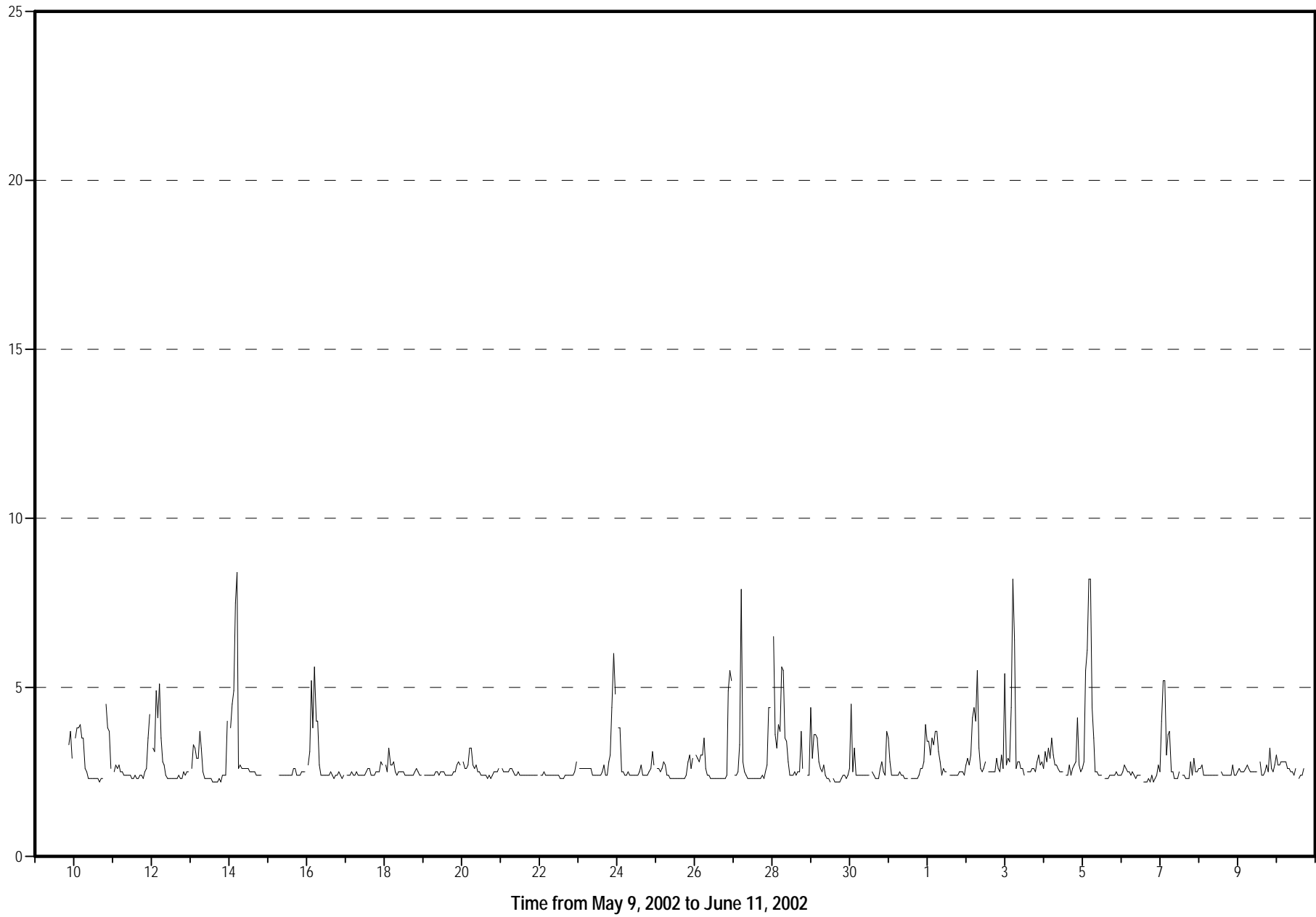
AMS 110 (Bentley)
May 2002
THC (ppm)

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	
9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3.3	3.7	2.9	3.30
10	--	3.5	3.8	3.8	3.9	3.5	3.5	2.6	2.5	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.2	2.3	2.3	--	4.5	3.8	3.7	2.6	2.94
11	--	2.5	2.7	2.6	2.7	2.5	2.5	2.4	2.4	2.4	2.4	2.3	2.3	2.3	2.4	2.3	2.3	2.4	2.4	2.3	2.5	2.6	3.5	4.2	2.57
12	--	3.2	3.1	4.9	4.1	5.1	3.5	2.8	2.7	2.4	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.4	2.3	2.5	2.4	2.5	2.5	2.82
13	--	2.6	3.3	3.2	2.9	2.9	3.7	3.2	2.5	2.3	2.3	2.3	2.3	2.3	2.2	2.2	2.2	2.2	2.3	2.2	2.4	2.4	2.4	4.0	2.62
14	--	3.8	4.5	4.9	7.5	8.4	2.6	2.7	2.6	2.6	2.6	2.6	2.6	2.5	2.5	2.5	2.5	2.4	2.4	2.4	2.4	--	--	--	3.35
15	--	--	--	--	--	--	--	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.6	2.6	2.4	2.4	2.4	2.5	2.5	2.5	2.44
16	--	2.7	3.1	5.2	3.8	5.6	4.0	4.0	2.7	2.4	2.4	2.4	2.4	2.4	2.4	2.5	2.4	2.3	2.4	2.4	2.4	2.5	2.4	2.3	2.92
17	--	2.4	2.4	2.4	2.5	2.4	2.4	2.5	2.4	2.4	2.4	2.4	2.4	2.5	2.6	2.6	2.4	2.4	2.4	2.4	2.5	2.5	2.5	2.8	2.47
18	--	2.7	2.5	3.2	2.7	2.7	2.8	2.5	2.4	2.5	2.5	2.5	2.5	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.5	2.6	2.5	2.4	2.53
19	--	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.5	2.5	2.4	2.5	2.5	2.5	2.4	2.4	2.4	2.4	2.4	2.4	2.5	2.5	2.7	2.8	2.47
20	--	2.8	2.6	2.6	2.7	3.2	3.2	2.7	2.6	2.7	2.5	2.5	2.4	2.4	2.4	2.4	2.3	2.4	2.3	2.4	2.5	2.5	2.5	2.6	2.57
21	--	2.6	2.5	2.5	2.5	2.5	2.6	2.6	2.5	2.4	2.4	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	2.45
22	--	2.4	2.4	2.5	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.3	2.3	2.3	2.3	2.4	2.4	2.4	2.4	2.4	2.5	2.8	2.41
23	--	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.4	2.4	2.4	2.4	2.4	2.4	2.5	2.7	2.4	2.4	2.4	2.8	3.0	4.4	6.0	2.88
24	--	3.8	3.8	2.5	2.5	2.4	2.4	2.5	2.4	2.4	2.4	2.4	2.4	2.4	2.5	2.7	2.4	2.4	2.4	2.4	2.5	2.6	3.1	2.7	2.61
25	--	2.6	2.6	2.5	2.6	2.8	2.7	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	2.8	3.0	2.6	2.9	2.49
26	--	3.0	2.9	2.8	3.0	3.0	3.5	2.6	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	4.9	5.5	5.2	2.90
27	--	2.4	2.4	2.5	3.3	7.9	2.8	2.5	2.4	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.4	2.3	2.5	2.7	4.4	2.85
28	--	6.5	3.6	3.2	3.9	3.7	5.6	5.5	3.5	3.4	2.8	2.4	2.4	2.4	2.5	2.4	2.5	2.5	2.5	3.7	2.6	--	--	2.4	3.33
29	4.4	2.9	3.6	3.6	3.5	2.8	2.6	2.5	2.7	2.4	2.3	2.3	2.2	--	2.3	2.2	2.2	2.2	2.2	2.3	2.4	2.4	2.3	2.4	2.64
30	2.6	4.5	2.5	3.2	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	--	2.5	2.4	2.3	2.3	2.3	2.6	2.8	2.5	2.4	3.7	2.62
31	3.5	2.8	2.4	2.4	2.4	2.4	2.4	2.5	2.4	2.4	2.3	2.3	2.3	--	2.3	2.3	2.3	2.3	2.3	2.4	2.6	2.6	2.8	3.9	2.53
1	3.4	3.4	3.0	3.5	3.3	3.7	3.7	3.1	2.8	2.4	2.6	2.5	2.5	--	2.4	2.4	2.4	2.4	2.4	2.4	2.5	2.5	2.5	2.4	2.79
2	2.7	2.9	2.7	3.0	4.1	4.4	4.0	5.5	3.2	2.6	2.5	2.6	2.8	--	2.5	2.5	2.5	2.5	2.5	2.9	2.6	2.5	3.0	2.6	3.00
3	5.4	2.7	2.9	2.8	4.4	8.2	6.4	2.6	2.8	2.8	2.6	2.6	2.4	--	2.5	2.5	2.5	2.6	2.6	2.5	2.8	3.0	2.7	2.8	3.27
4	2.6	3.1	2.8	3.2	2.9	3.5	3.0	2.7	2.7	2.6	2.5	2.5	2.5	--	2.4	2.4	2.7	2.4	2.6	2.7	2.8	4.1	2.7	2.5	2.78
5	2.6	2.8	5.5	6.1	8.2	8.2	4.4	3.5	2.5	2.5	2.4	2.4	2.4	--	2.3	2.3	2.3	2.4	2.4	2.4	2.4	2.5	2.4	2.4	3.36
6	2.4	2.5	2.7	2.6	2.5	2.5	2.4	2.5	2.4	2.3	2.4	2.4	2.4	--	2.2	2.2	2.2	2.3	2.2	2.4	2.2	2.3	2.4	2.7	2.40
7	2.5	4.0	5.2	5.2	3.0	3.6	3.7	2.5	2.5	2.3	2.3	2.3	2.5	--	2.4	2.4	2.3	2.3	2.3	2.8	2.4	2.9	2.5	2.5	2.89
8	2.6	2.6	2.7	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	--	2.5	2.4	2.4	2.4	2.4	2.4	2.4	2.7	2.4	2.4	2.45
9	2.5	2.6	2.5	2.5	2.5	2.6	2.7	2.6	2.5	2.5	2.5	2.5	2.5	--	2.8	2.4	2.4	2.5	2.7	2.5	3.2	2.6	2.5	2.7	2.58
10	3.0	2.7	2.7	2.8	2.8	2.8	2.8	2.6	2.6	2.5	2.5	2.4	2.6	--	2.3	2.4	2.4	2.6	--	--	--	--	--	--	2.62
	3.09	3.03	3.05	3.21	3.30	3.73	3.16	2.83	2.57	2.47	2.42	2.41	2.41	2.37	2.40	2.38	2.38	2.39	2.43	2.46	2.61	2.82	2.92	2.97	

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: 8.4 First Occurrence on Day 14 Hour 6 Frequency: 1 Minimum Value in Table: 2.2 First Occurrence on Day 10 Hour 17 Frequency: 16 Maximum Daily Value: 3.4 First Occurrence on Day 5 Minimum Daily Value: 2.4 First Occurrence on Day 6 Maximum Diurnal Value: 3.7 First Occurrence at Hour 6 Minimum Diurnal Value: 2.4 First Occurrence at Hour 14 Monthly Mean: 2.74 Percentiles: P10 = 2.32 Q1 = 2.38 Median = 2.46 Q3 = 2.69 P90 = 3.51			

Bentley THC Maximum Values

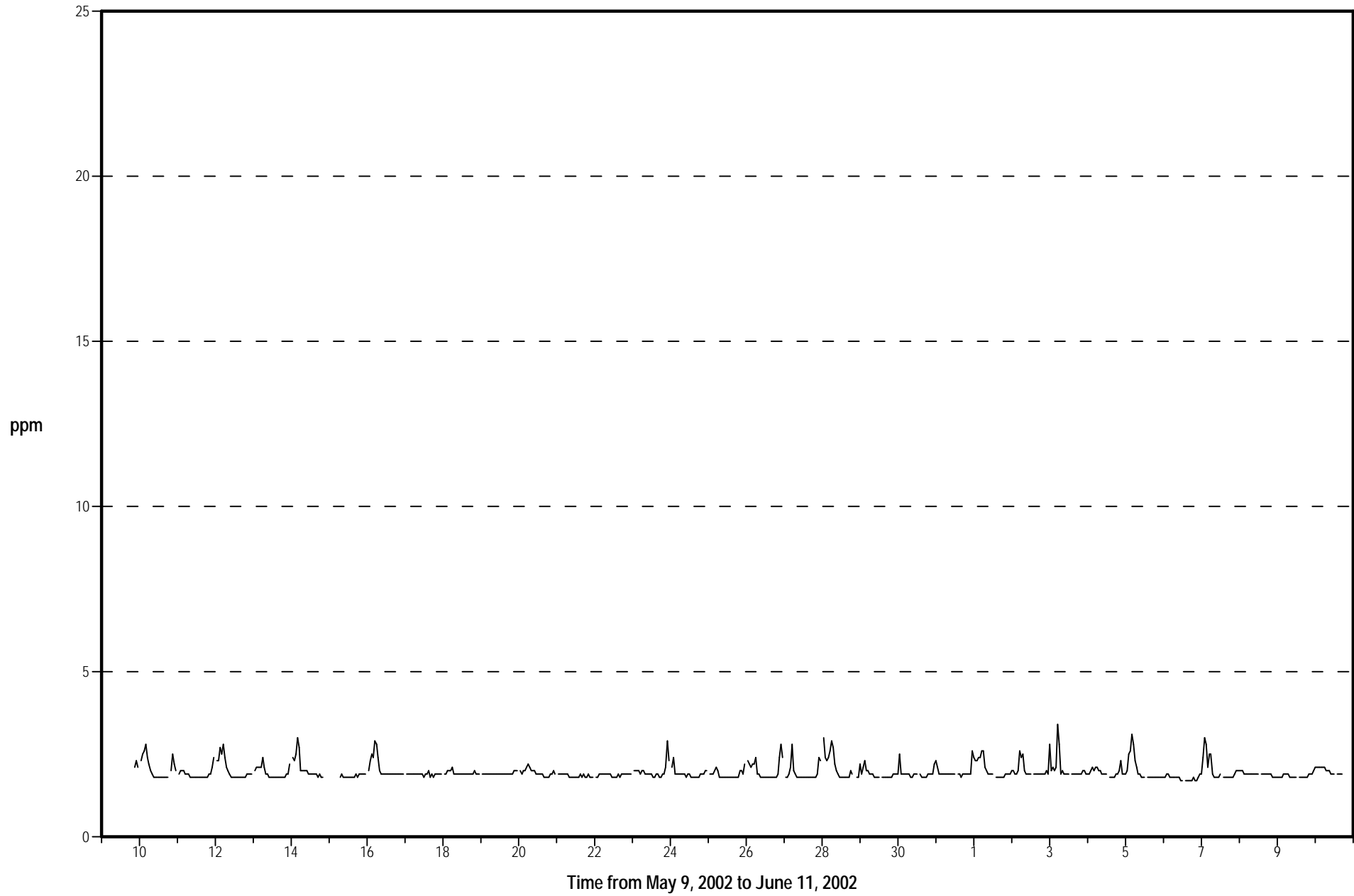


**Parkland Airshed Management Zone
Summary of Hourly Averages**

AMS 110 (Bentley)
May 9, 2002 to June 11, 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		
9	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	CAL	CAL	CAL	CAL	2.1	2.3	2.1	2.2	
10	ZS	2.3	2.5	2.6	2.8	2.4	2.2	2.0	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	PF	2.0	2.5	2.2	2.0	2.1
11	ZS	1.9	2.0	2.0	2.0	1.9	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.9	1.9	2.1	2.4	1.9
12	ZS	2.3	2.3	2.7	2.5	2.8	2.4	2.1	2.0	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.9	1.9	1.9	1.9	2.0
13	ZS	2.0	2.1	2.1	2.1	2.1	2.4	2.1	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.9	1.9	2.2	1.9	
14	ZS	2.4	2.3	2.5	3.0	2.7	2.0	2.0	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.8	1.9	1.8	1.8	PF	PF	PF	2.1	
15	PF	PF	PF	PF	PF	ZS	ZS	1.8	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.9	1.8	1.9	1.9	1.9	1.9	1.9	1.8	
16	ZS	2.0	2.3	2.5	2.4	2.9	2.8	2.4	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.1	
17	ZS	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.8	1.9	1.9	2.0	1.8	1.9	1.8	1.9	1.9	1.9	1.9	1.9	1.9	
18	ZS	1.9	1.9	2.0	2.0	2.0	2.1	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	1.9	1.9	1.9	
19	ZS	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	1.9	
20	ZS	2.0	1.9	2.0	2.0	2.1	2.2	2.1	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.9	1.9	2.0	1.9	
21	ZS	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.9	1.8	1.9	1.8	1.8	1.8	1.9	1.8	1.8	1.8	
22	ZS	1.8	1.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.8	1.8	1.8	1.8	1.9	1.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	
23	ZS	2.0	2.0	2.0	2.0	1.9	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.8	1.8	1.9	1.9	1.8	1.8	1.8	1.9	1.9	2.1	2.9	2.3	
24	ZS	2.1	2.4	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.8	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.9	1.9	1.9	2.0	2.0	
25	ZS	1.9	1.9	1.9	2.0	2.1	2.0	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.0	2.0	1.9	2.2	1.9	
26	ZS	2.3	2.2	2.1	2.2	2.2	2.4	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.9	2.4	2.8	2.4	2.0	
27	ZS	1.8	1.8	1.9	2.1	2.8	2.0	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.9	2.4	2.3	1.9	
28	ZS	3.0	2.4	2.3	2.4	2.6	2.9	2.7	2.2	2.0	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.0	1.9	CAL	CAL	1.8	1.8	2.1	
29	2.2	1.9	2.1	2.3	2.0	2.0	1.9	1.9	1.9	1.8	1.8	1.8	1.8	ZS	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.9	1.9	1.9	1.9	
30	1.9	2.5	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.8	1.8	1.9	1.9	ZS	1.9	1.8	1.8	1.8	1.8	1.8	1.9	1.9	1.9	1.9	2.2	
31	2.3	2.1	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	1.8	1.9	1.9	1.9	1.9	1.9	1.9	2.6	2.0	
1	2.4	2.3	2.3	2.4	2.4	2.6	2.6	2.1	2.0	1.9	1.9	1.9	1.9	ZS	1.8	1.8	1.8	1.8	1.8	1.8	1.9	1.9	1.9	1.9	2.0	
2	2.0	2.0	1.9	1.9	2.0	2.6	2.4	2.5	2.0	1.9	1.9	1.9	1.9	ZS	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	1.9	2.0	
3	2.8	2.0	2.1	2.0	2.1	3.4	2.8	1.9	2.0	1.9	1.9	1.9	1.9	ZS	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	1.9	2.1	
4	1.9	1.9	2.0	2.1	2.0	2.1	2.1	2.0	2.0	1.9	1.9	1.9	1.9	ZS	1.8	1.8	1.8	1.8	1.8	1.9	1.9	2.0	2.3	1.9	1.9	
5	1.9	2.0	2.5	2.6	3.1	2.8	2.3	2.1	1.9	1.9	1.8	1.8	1.8	ZS	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.0	
6	1.8	1.8	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.7	1.7	ZS	1.7	1.7	1.7	1.7	1.7	1.7	1.8	1.7	1.7	1.8	1.8	
7	1.9	2.4	3.0	2.8	2.1	2.5	2.5	1.9	1.8	1.8	1.8	1.8	1.9	ZS	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.9	2.0	2.0	
8	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	ZS	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.8	1.8	1.8	1.9	
9	1.8	1.8	1.8	1.8	1.9	1.9	1.9	1.9	1.8	1.8	1.8	1.8	1.8	ZS	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.9	1.9	2.0	1.8	
10	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.0	2.0	1.9	1.9	1.9	1.9	ZS	1.9	1.9	1.9	1.9	CAL	CAL	NS	NS	NS	NS	2.0	
	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.0	1.9	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.9	1.9	2.0	2.0	2.0	
	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: 3.4				First Occurrence on Day 3 Hour 6				Frequency: 1				Hours in Service: 771														
Minimum Value in Table: 1.7				First Occurrence on Day 6 Hour 12				Frequency: 9				Hours of Data: 721														
Maximum Daily Value: 2.2				First Occurrence on Day 9				Minimum Daily Value: 1.8				First Occurrence on Day 6														
Maximum Diurnal Value: 2.2				First Occurrence at Hour 6				Minimum Diurnal Value: 1.8				First Occurrence at Hour 17														
Monthly Mean: 1.95				Percentiles: P10 = 1.82 Q1 = 1.84 Median = 1.88 Q3 = 1.96 P90 = 2.24								Hours of Calibration: 41														
												Percent Operational Time: 98.83														

Bentley CH4 Hourly Averages



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

AMS 110 (Bentley)
May 2002
CH4 (ppm)

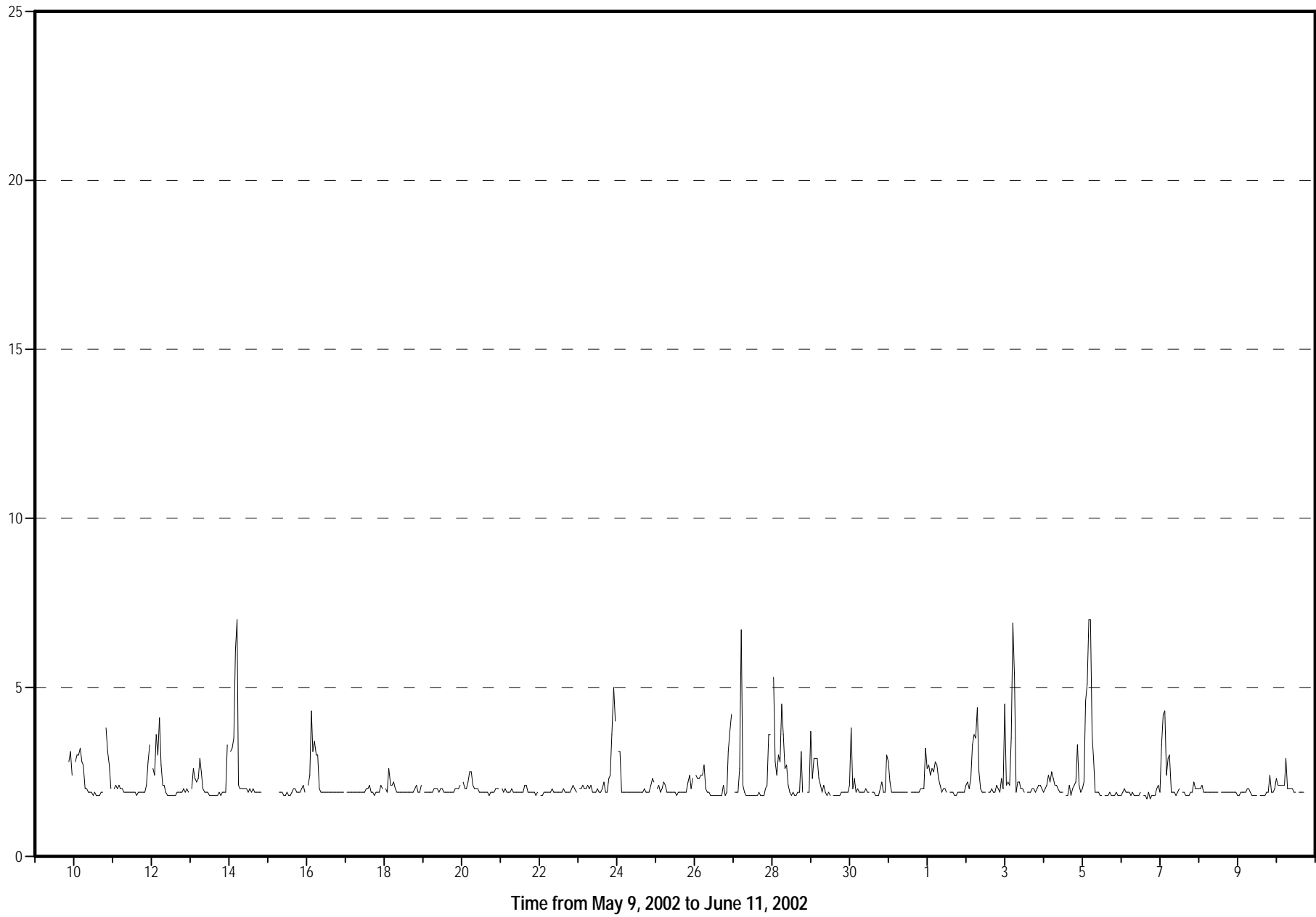
Day	Hourly Period Ending At																								Daily Average	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2.8	3.1	2.4	2.77	
10	--	2.8	3.0	3.0	3.2	2.8	2.7	2.0	2.0	1.9	1.9	1.9	1.8	1.9	1.8	1.8	1.8	1.9	1.9	--	3.8	3.1	2.7	2.0	2.35	
11	--	2.0	2.1	2.0	2.1	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.8	1.9	1.9	1.9	1.9	1.9	2.1	2.8	3.3	2.04	
12	--	2.6	2.4	3.6	3.0	4.1	2.7	2.1	2.1	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.9	1.9	1.9	1.9	2.0	1.9	2.0	1.9	2.20	
13	--	2.0	2.6	2.3	2.2	2.3	2.9	2.5	2.0	1.9	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.9	1.8	1.9	1.9	1.9	3.3	2.09	
14	--	3.1	3.2	3.5	6.1	7.0	2.1	2.0	2.0	2.0	2.0	2.0	1.9	2.0	1.9	2.0	1.9	1.9	1.9	1.9	1.9	--	--	--	2.62	
15	--	--	--	--	--	--	--	1.9	1.9	1.9	1.8	1.8	1.9	1.8	1.8	1.9	2.0	2.0	1.9	1.9	1.9	2.0	2.1	1.9	1.91	
16	--	2.1	2.4	4.3	3.1	3.4	3.0	3.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.25	
17	--	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.1	1.9	1.9	1.8	1.9	1.9	1.9	2.1	2.0	1.93	
18	--	2.0	1.9	2.6	2.1	2.1	2.2	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.1	1.9	1.9	2.1	1.99	
19	--	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	1.9	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.1	1.94	
20	--	2.2	2.0	2.0	2.2	2.5	2.5	2.1	2.0	2.0	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.8	1.9	1.9	1.9	2.0	2.0	2.0	2.02	
21	--	2.0	1.9	2.0	1.9	1.9	1.9	2.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.1	2.1	1.9	1.9	1.9	1.9	1.9	1.8	1.9	1.93	
22	--	1.8	1.8	1.9	1.9	1.9	1.9	1.9	2.0	1.9	1.9	1.9	1.9	1.9	1.9	2.0	1.9	1.9	1.9	1.9	2.0	2.1	2.0	1.9	1.92	
23	--	2.0	2.0	2.1	2.0	2.0	2.1	2.0	2.1	1.9	1.9	1.9	2.0	1.9	1.9	2.0	2.2	1.9	1.9	1.9	2.3	2.4	3.6	5.0	4.0	2.31
24	--	3.1	3.1	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	1.9	1.9	1.9	2.1	2.3	2.2	2.05	
25	--	2.0	2.1	1.9	2.0	2.2	2.1	1.9	1.9	1.9	1.9	1.9	1.9	1.8	1.9	1.9	1.9	1.9	1.9	1.9	2.2	2.4	2.0	2.3	1.99	
26	--	2.4	2.3	2.3	2.4	2.4	2.7	2.0	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.1	1.8	1.9	3.1	3.7	4.2	2.24	
27	--	1.9	1.9	1.9	2.6	6.7	2.1	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	2.0	2.1	3.6	3.6	2.26		
28	--	5.3	2.8	2.4	3.0	2.8	4.5	3.6	2.6	2.7	2.1	1.9	1.8	1.9	1.8	1.8	1.9	1.9	3.1	1.9	--	--	1.9	1.9	2.55	
29	3.7	2.3	2.9	2.9	2.9	2.3	2.1	1.9	2.1	1.9	1.8	1.9	1.8	--	1.8	1.8	1.8	1.8	1.8	1.9	1.9	1.9	1.9	1.9	2.13	
30	2.1	3.8	2.0	2.3	1.9	2.0	1.9	1.9	1.9	1.9	1.9	2.0	1.9	1.9	--	1.9	1.9	1.8	1.8	1.8	2.0	2.2	1.9	1.9	3.0	2.07
31	2.8	2.2	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	--	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	3.2	2.02
1	2.6	2.7	2.4	2.6	2.5	2.8	2.7	2.3	2.1	1.9	2.0	2.0	1.9	--	1.9	1.9	1.9	1.8	1.8	1.9	1.9	1.9	1.9	1.9	2.14	
2	2.1	2.2	2.0	2.3	3.3	3.6	3.5	4.4	2.5	2.0	1.9	1.9	1.9	--	1.9	1.9	2.0	1.9	1.9	2.1	2.0	1.9	2.3	2.0	2.33	
3	4.5	2.1	2.2	2.1	3.5	6.9	5.3	1.9	2.2	2.0	2.0	1.9	--	1.9	1.9	1.9	2.0	2.0	1.9	2.0	2.1	2.1	2.1	2.0	2.55	
4	1.9	2.0	2.1	2.4	2.2	2.5	2.3	2.1	2.1	2.0	1.9	1.9	1.9	--	1.8	1.8	2.1	1.8	2.0	2.1	2.2	3.3	2.1	1.9	2.10	
5	2.0	2.2	4.6	5.1	7.0	7.0	3.6	2.8	1.9	1.9	1.8	1.8	--	1.8	1.8	1.8	1.9	1.8	1.8	1.8	1.8	1.9	1.8	1.8	2.69	
6	1.8	1.9	2.0	1.9	1.9	1.9	1.8	1.9	1.8	1.8	1.8	1.8	1.9	--	1.8	1.8	1.7	1.9	1.7	1.8	1.8	1.8	2.0	2.1	1.85	
7	1.9	3.3	4.2	4.3	2.4	2.9	3.0	1.9	1.9	1.9	1.8	1.9	2.0	--	1.9	1.9	1.8	1.8	1.8	1.9	1.9	2.2	2.0	2.0	2.29	
8	2.0	2.0	2.1	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	--	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.92	
9	1.8	1.8	1.9	1.9	1.9	1.9	2.0	2.0	1.9	1.8	1.8	1.8	1.8	--	1.8	1.8	1.8	1.8	1.9	1.9	2.4	1.9	1.9	2.0	1.89	
10	2.3	2.1	2.1	2.1	2.1	2.1	2.9	2.0	2.0	2.0	2.0	1.9	1.9	--	1.9	1.9	1.9	1.9	--	--	--	--	--	--	2.06	
	2.42	2.38	2.38	2.49	2.61	2.95	2.52	2.17	2.00	1.94	1.90	1.89	1.88	1.88	1.87	1.88	1.90	1.88	1.92	1.92	2.05	2.18	2.28	2.34		

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: 7.0 First Occurrence on Day 14 Hour 6 Frequency: 3
Minimum Value in Table: 1.7 First Occurrence on Day 6 Hour 17 Frequency: 2
Maximum Daily Value: 2.8 First Occurrence on Day 9 Minimum Daily Value: 1.9 First Occurrence on Day 6
Maximum Diurnal Value: 3.0 First Occurrence at Hour 6 Minimum Diurnal Value: 1.9 First Occurrence at Hour 15
Monthly Mean: 2.15 Percentiles: P10 = 1.84 Q1 = 1.87 Median = 1.92 Q3 = 2.06 P90 = 2.76

Bentley CH4 Maximum Values

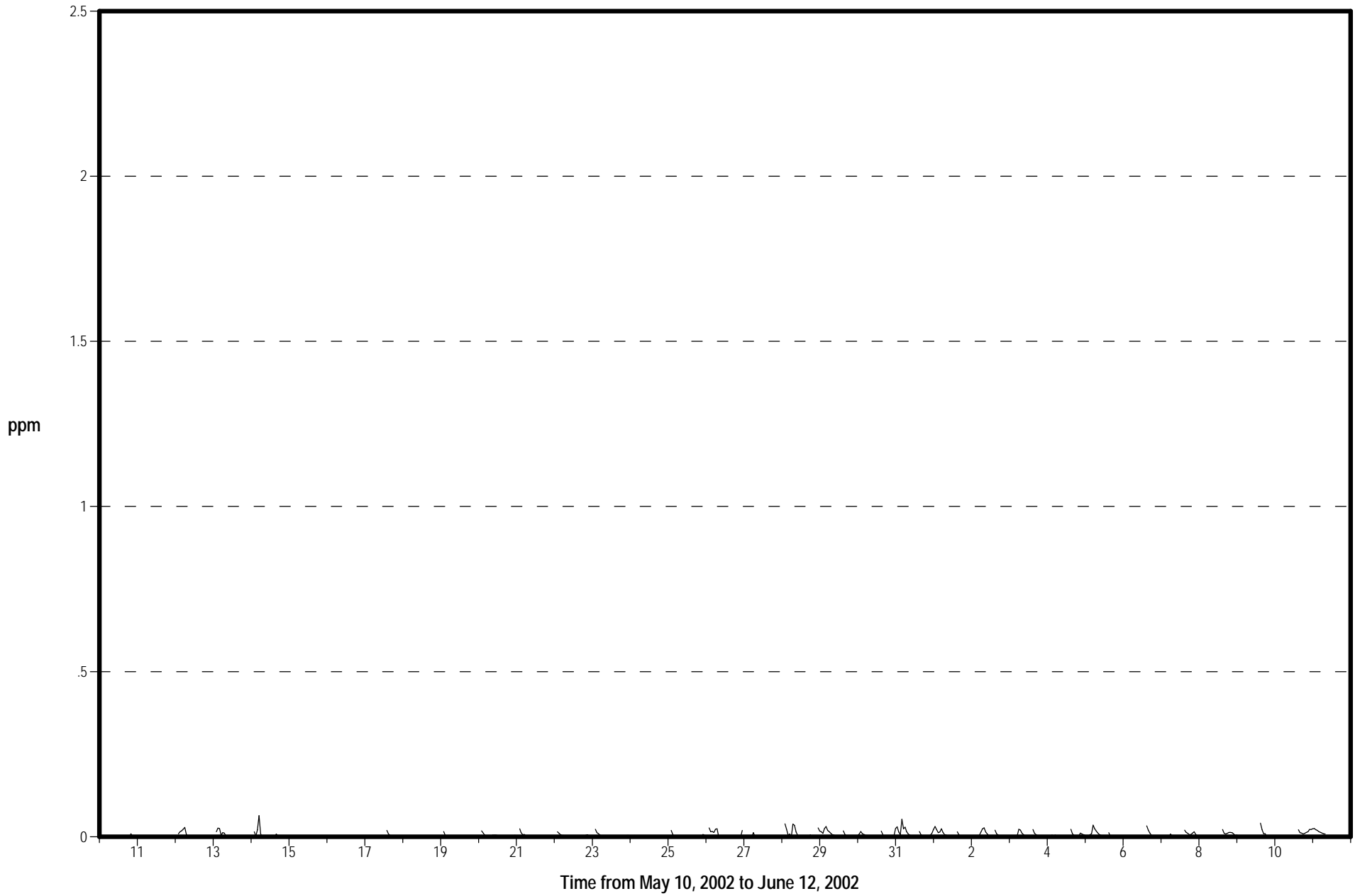


Parkland Airshed Management Zone
 Summary of Hourly Averages

AMS 110 (Bentley)
 May 10, 2002 to June 12, 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	
10	NS	NS	NS	NS	NS	NS	NS	NS	NS	CAL	CAL	CAL	CAL	CAL	CAL	CAL	CAL	CAL	CAL	.00	.01	.00	.00	.00	.00
11	ZS	ZS	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
12	ZS	ZS	.01	.02	.02	.02	.03	.01	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
13	ZS	ZS	.02	.03	.03	.01	.01	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
14	ZS	ZS	.02	.00	.02	.06	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00	.00	.00	PF	PF	PF	.01
15	PF	PF	PF	PF	PF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF
16	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF
17	AF	AF	AF	AF	AF	AF	AF	AF	AF	AF	ZS	ZS	ZS	ZS	.02	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00
18	ZS	ZS	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
19	ZS	ZS	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
20	ZS	ZS	.02	.01	.01	.00	.00	.00	.00	.01	.01	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
21	ZS	ZS	.02	.01	.01	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
22	ZS	ZS	.02	.01	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.01	.00	.00
23	ZS	ZS	.02	.01	.01	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
24	ZS	ZS	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	ZS	ZS	.02	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.01	.00
26	ZS	ZS	.03	.02	.02	.01	.02	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.01
27	ZS	ZS	.00	.00	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
28	ZS	ZS	.04	.02	.01	.01	.00	.04	.03	.01	.00	.00	.00	.00	.00	.00	.00	.00	.01	CAL	CAL	CAL	CAL	.03	.01
29	.02	.02	.01	.03	.03	.02	.02	.01	.01	.01	.00	.00	.00	ZS	ZS	.02	.01	.00	.00	.00	.00	.00	.00	.00	.01
30	.00	.01	.02	.01	.01	.00	.00	.00	.00	.00	.00	.00	.00	ZS	ZS	.02	.01	.00	.00	.00	.00	.00	.00	.00	.00
31	.03	.03	.01	.01	.05	.02	.03	.02	.01	.01	.00	.00	.00	ZS	ZS	.02	.01	.00	.00	.00	.00	.00	.01	.01	.01
1	.02	.03	.02	.01	.01	.02	.01	.01	.01	.00	.00	.00	.00	ZS	ZS	.02	.01	.00	.00	.00	.00	.00	.00	.00	.01
2	.00	.00	.00	.00	.00	.00	.01	.02	.03	.01	.01	.00	.00	ZS	ZS	.02	.01	.01	.00	.00	.00	.00	.00	.00	.01
3	.00	.00	.00	.00	.00	.00	.02	.02	.01	.01	.00	.00	.00	ZS	ZS	.02	.01	.01	.00	.00	.00	.00	.00	.00	.01
4	.00	.00	.00	.01	.00	.01	.00	.00	.00	.00	.00	.00	.00	ZS	ZS	.02	.01	.00	.00	.00	.00	.01	.01	.01	.00
5	.00	.00	.00	.01	.01	.04	.02	.02	.01	.01	.00	.00	.00	ZS	ZS	.01	.00	.00	.00	.00	.00	.00	.00	.00	.01
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	ZS	ZS	.03	.02	.01	.00	.00	.00	.00	.00	.00	.00
7	.00	.00	.00	.00	.00	.00	.01	.00	.00	.00	.00	.00	.00	ZS	ZS	.02	.01	.01	.01	.01	.01	.01	.02	.01	.00
8	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	ZS	ZS	.02	.01	.01	.01	.01	.01	.01	.01	.01	.01
9	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	ZS	ZS	.04	.02	.01	.01	.00	.00	.00	.00	.00	.00
10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	ZS	ZS	.02	.01	.01	.01	.01	.01	.02	.02	.02	.01
11	.02	.03	.02	.02	.02	.01	.01	.01	.01	CAL	CAL	CAL	CAL	CAL	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	.02
	.01	.01	.01	.01	.01	.01	.01	.01	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00
	Diurnal Average																								
ZS - Zero/Span Calibration				CAL - Multipoint Calibration				M - Maintenance				DAF - Data Aquisition Failure													
AF - Analyzer Failure				UO - Unstable Operation				PF - Power Failure				NS - Not in Service													
Maximum Value in Table: .06				First Occurrence on Day 14 Hour 6				Frequency: 1				Hours in Service: 773													
Minimum Value in Table: .00				First Occurrence on Day 10 Hour 20				Frequency: 321				Hours of Data: 633													
Maximum Daily Value: 0.0				First Occurrence on Day 11				Minimum Daily Value: .00				First Occurrence on Day 11				Hours of Missing Data: 140									
Maximum Diurnal Value: .01				First Occurrence at Hour 3				Minimum Diurnal Value: .00				First Occurrence at Hour 14				Hours of Calibration: 79									
Monthly Mean: .00				Percentiles: P10 = 0.00 Q1 = 0.00 Median = 0.00 Q3 = 0.01 P90 = 0.02								Percent Operational Time: 92.11													

Bentley NH3 Hourly Averages



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

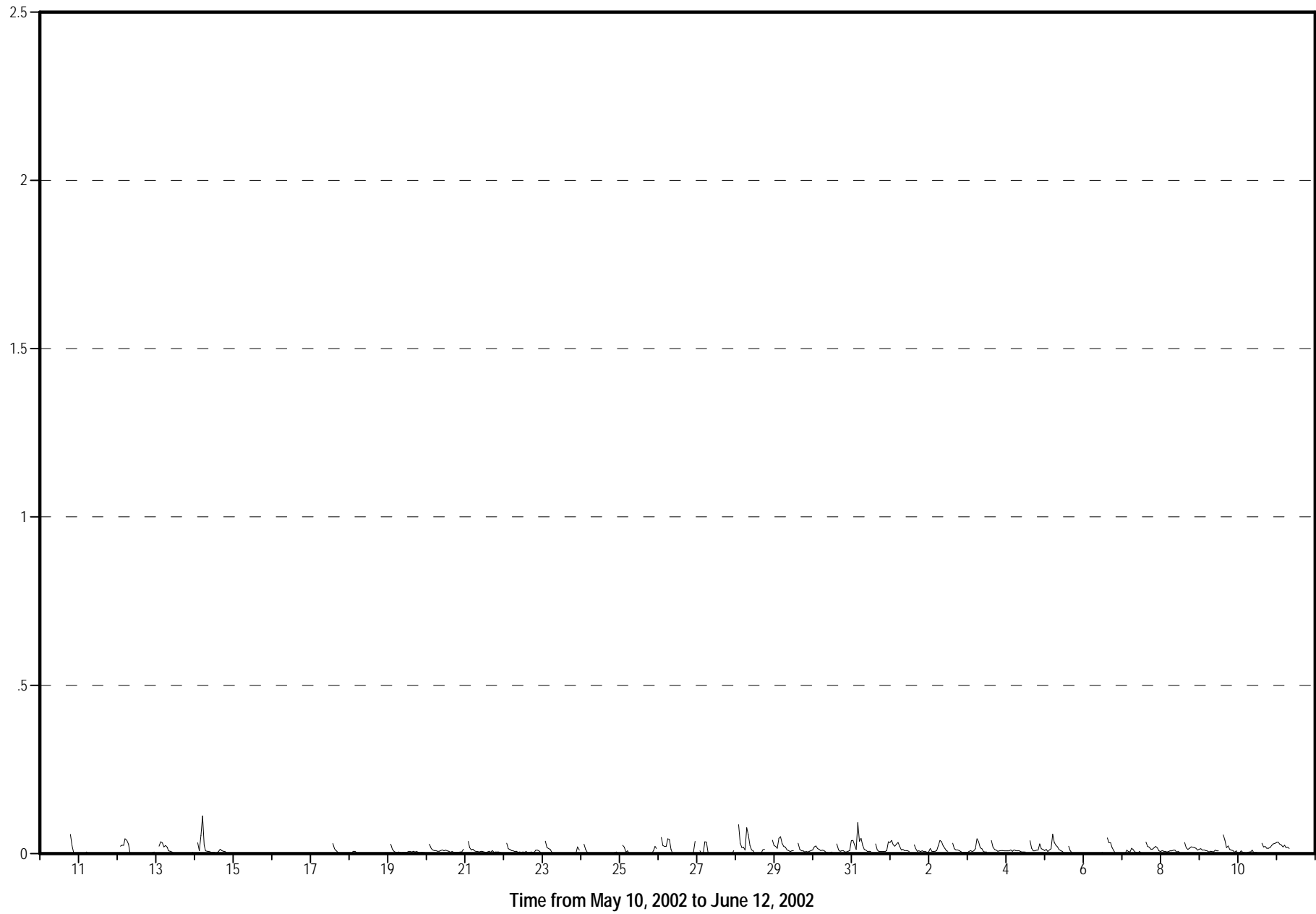
AMS 110 (Bentley)
May 2002
NH3 (ppm)

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	
10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	.06	.02	.00	.00	.00	.02
11	--	--	.00	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
12	--	--	.02	.03	.03	.04	.04	.03	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.01
13	--	--	.02	.04	.03	.02	.02	.02	.01	.01	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
14	--	--	.03	.01	.05	.11	.03	.01	.01	.01	.01	.00	.00	.00	.00	.01	.01	.01	.01	.01	.00	--	--	--	.02
15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	.03	.01	.01	.00	.00	.00	.00	.00	.00	.00	.01
18	--	--	.01	.01	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
19	--	--	.03	.01	.01	.00	.00	.01	.00	.00	.00	.00	.00	.01	.01	.01	.01	.01	.01	.00	.00	.00	.00	.00	.01
20	--	--	.03	.02	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.00	.01	.00	.00	.00	.00	.01	.01	.01	.01
21	--	--	.04	.02	.01	.01	.01	.01	.01	.01	.01	.01	.01	.00	.01	.01	.00	.01	.00	.01	.01	.01	.00	.00	.01
22	--	--	.03	.01	.01	.01	.01	.01	.01	.00	.01	.00	.01	.00	.01	.00	.00	.01	.00	.00	.01	.01	.01	.00	.01
23	--	--	.04	.02	.02	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.01	.01
24	--	--	.03	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00
25	--	--	.03	.02	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.02	.02	.00
26	--	--	.05	.02	.02	.02	.04	.04	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.04	.01
27	--	--	.01	.00	.00	.04	.03	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00
28	--	--	.09	.03	.02	.02	.01	.08	.06	.02	.01	.01	.00	.00	.00	.00	.00	.01	.01	--	--	--	--	.04	.02
29	.02	.02	.02	.05	.05	.03	.02	.02	.01	.01	.01	.01	.01	--	--	.03	.01	.01	.01	.01	.01	.01	.01	.01	.01
30	.01	.02	.02	.02	.01	.01	.01	.01	.01	.00	.00	.00	.01	--	--	.03	.01	.01	.01	.01	.01	.01	.01	.01	.01
31	.04	.04	.03	.01	.09	.04	.05	.03	.01	.01	.01	.01	.01	--	--	.03	.01	.01	.01	.01	.01	.01	.01	.01	.04
1	.03	.04	.03	.02	.03	.03	.02	.01	.01	.01	.01	.01	.01	--	--	.03	.02	.01	.01	.01	.01	.01	.01	.01	.00
2	.01	.02	.01	.01	.01	.01	.02	.04	.04	.02	.02	.01	.01	--	--	.03	.01	.01	.01	.01	.01	.01	.00	.00	.00
3	.00	.01	.01	.01	.01	.01	.04	.04	.02	.01	.01	.01	.01	--	--	.04	.02	.01	.01	.01	.01	.01	.01	.01	.01
4	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	--	--	.04	.02	.01	.01	.01	.01	.03	.01	.01	.01
5	.01	.01	.01	.01	.01	.06	.03	.03	.02	.01	.01	.01	.00	--	--	.02	.01	.00	.00	.00	.00	.00	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	--	--	.05	.03	.03	.02	.01	.00	.00	.00	.00	.00
7	.00	.00	.00	.01	.01	.01	.02	.01	.01	.00	.00	.01	.00	--	--	.03	.02	.02	.01	.01	.02	.02	.02	.01	.01
8	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.00	--	--	.03	.02	.01	.02	.02	.02	.02	.02	.01	.01
9	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	--	--	.06	.04	.02	.02	.01	.01	.01	.00	.01	.01
10	.00	.00	.01	.00	.00	.00	.00	.01	.01	.01	.00	.00	.00	--	--	.03	.02	.02	.02	.02	.02	.02	.03	.03	.01
11	.03	.03	.03	.03	.02	.03	.02	.02	.02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	.02
	.01	.02	.02	.01	.02	.02	.02	.01	.01	.01	.00	.00	.00	.00	.00	.02	.01	.01	.01	.01	.01	.01	.01	.01	.01

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: .11 First Occurrence on Day 14 Hour 6 Frequency: 1 Minimum Value in Table: .00 First Occurrence on Day 10 Hour 24 Frequency: 166 Maximum Daily Value: .02 First Occurrence on Day 11 Minimum Daily Value: .00 First Occurrence on Day 11 Maximum Diurnal Value: .02 First Occurrence at Hour 3 Minimum Diurnal Value: .00 First Occurrence at Hour 14 Monthly Mean: .01 Percentiles: P10 = 0.00 Q1 = 0.00 Median = 0.01 Q3 = 0.01 P90 = 0.03			

Bentley NH3 Maximum Values



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

AMS 110 (Bentley)
May 9, 2002 to June 12, 2002
Wind Direction, Wind Speed (kph), 10 m

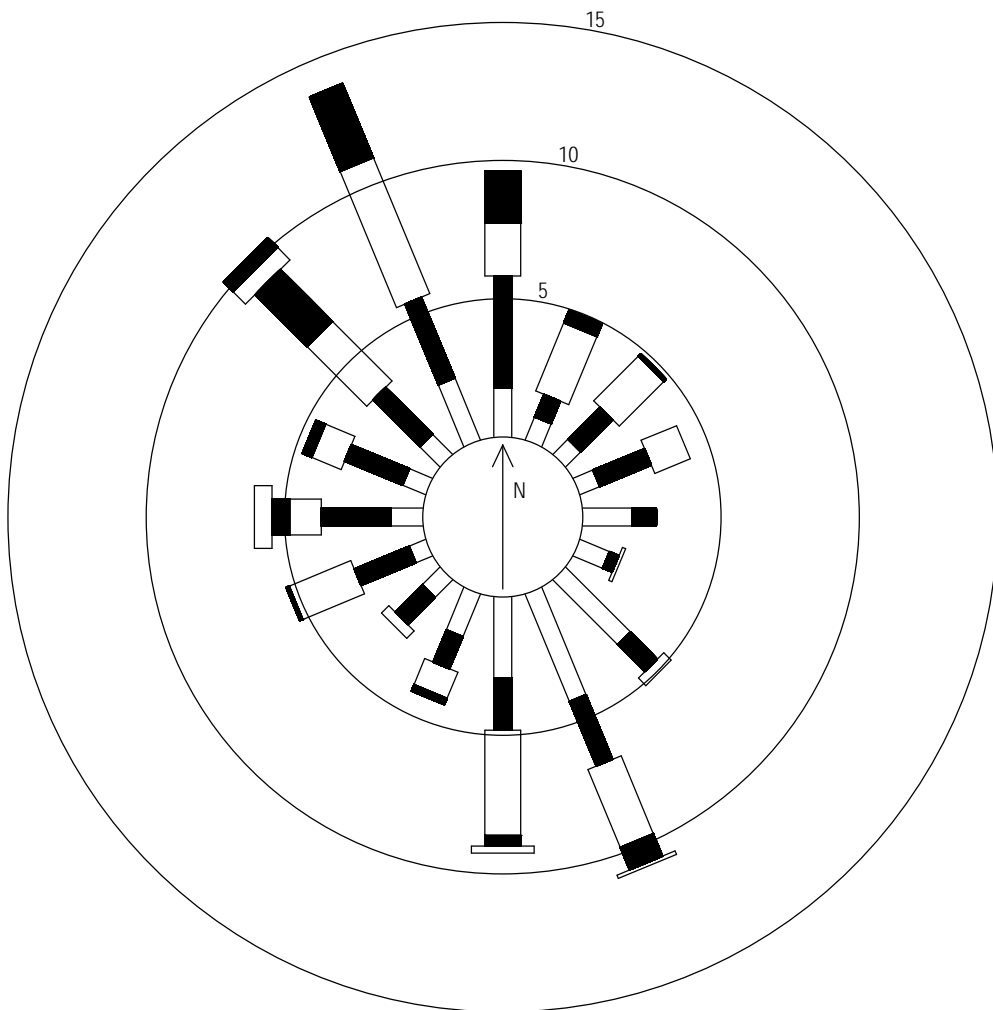
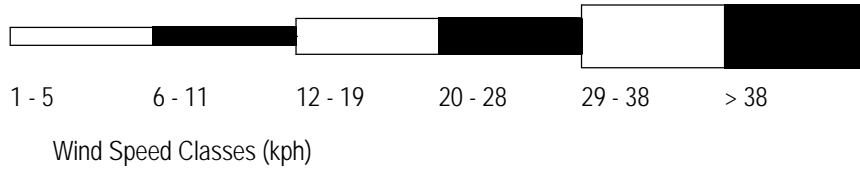
Day	Hourly Period Ending At																								Daily Average
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
9	SSE2	NNE0	N1	NE1	NNW2	N1	NNW3	WNW5	WNW8	NW9	NW10	NNW12	WNW10	NW10	WNW7	NNE6	NNW12	W10	W7	NNW6	NNW2	S3	E2	SSE4	NW4
10	SSE4	S4	SSE3	SSE3	S4	S4	S6	WSW3	NW17	NW17	WNW14	W11	W11	W10	WSW9	WSW12	W5	W4	NW1	E4	ESE3	NNE2	NNW4	N8	W4
11	N6	NNW8	NNW9	NNW10	NNW6	W2	W5	WNW17	NW24	NW28	NW28	NW25	NW22	NW22	NW21	NNW17	NW21	NNW20	NNW18	NNW9	N5	NNE5	NNE3	NNW1	NW13
12	SE2	SSE3	SE3	E1	SE2	SSE3	SSW5	WSW4	WNW5	W9	WSW8	WSW9	WSW7	SSW8	SW10	SW9	SSW9	S7	S5	ESE4	E5	ESE4	SE4	SE7	SSW4
13	SSE8	SE8	SSE5	SE5	SE7	SSE4	SSW5	SW8	W9	WNW9	WNW10	NW8	WSW5	WNW5	W6	NW3	ENE9	NE11	ENE8	ENE8	ENE9	E8	E7	SE2	ESE1
14	SE3	SSE3	SSE1	ENE2	SE2	ESE5	SE6	SSE4	ENE5	NNE2	NW8	NNW19	NW29	NW45	NW51	NW52	NW45	NW38	NW36	NW32	NW29	**	**	**	NW17
15	**	**	**	**	**	**	NNW18	NNW18	NNW18	N17	NNW17	NNW16	N12	NNE9	N6	NNW5	NNW3	SW10	WSW18	WSW13	SW4	WSW3	NW2	SSE1	NW8
16	SSE4	SE3	SE1	SE2	ESE4	NW1	SSW0	SSE3	SSE10	SSE14	SSE14	S16	SSE14	S16	S17	S18	S19	S19	S17	SSE14	SSE12	SSE11	SSE12	SSE16	SSE10
17	SSE15	SSE14	SSE13	SSE15	SSE11	SSE14	SSE17	SSE21	SSE23	SSE24	SSE29	S30	S30	S27	SSW23	SSW22	S24	SSE19	SSE11	ESE11	E10	ESE6	E1	ESE2	SSE16
18	NNW9	N12	NNW8	N8	NNW8	NNW5	NW1	N9	NNE7	ENE6	ENE7	E7	SE8	SE12	SSE12	SSE15	SSE16	SE14	SE11	SE9	SSE6	SE5	SSE17	SSE20	ESE4
19	SE11	ESE12	SE12	SE11	SSE11	SSE12	SSE11	SSE17	SSE15	S15	SSE15	SSE15	SSE20	SSE20	SSE20	SSE16	SSE11	SE5	E3	NE13	NE8	NE7	NE10	ENE7	SE10
20	SSE2	E4	E3	E4	ESE2	E2	W1	S4	S2	SSE3	NE8	ENE10	ENE12	ENE11	NE12	ENE12	NE11	NNE10	N11	N11	N9	N8	N12	NNW17	NE5
21	NNW18	NNW20	NNW22	NNW22	NW21	NNW22	N21	N25	NNE23	NE21	NE18	NNE21	NNE17	NNE25	N27	N22	NNW21	NNW22	NNW22	N20	NNW19	NNW21	NNW20	N18	N20
22	N20	N20	N20	NNW18	NNW20	NNW21	NNW19	NNW20	NNW17	NNW18	N20	N22	N24	NNE26	N23	N22	N19	NNW20	NNW20	NW21	NW19	NW14	NNW13	N10	NNW19
23	N7	N7	N4	ESE0	SE1	S2	SSE4	SSE10	S16	S16	S16	S17	S21	S18	S19	S19	SSW18	S12	S10	SSW10	S9	S6	S3	S4	S9
24	S8	S7	SSW8	NW9	NW12	NW16	NW18	NW20	NNW23	NNW18	NW20	NW22	NNW19	NNW16	NW14	NNW17	NW18	NNW19	NW15	WNW7	NW3	SW2	W3	NW12	NW12
25	WSW6	WNW6	W1	SSE1	SSE2	SW2	WNW7	NW15	WNW18	NW21	NW20	NW22	NW20	NW21	NW23	NW24	NNW20	NNW21	NNW18	NNW11	NNW5	N3	E0	SE3	NW11
26	SE3	SSE6	SSE5	SE5	SSE5	SE4	S5	SSW6	W13	WSW14	WNW10	W11	WSW11	W12	W11	WNW9	W8	N6	ENE9	ESE4	SE5	SSE4	S2	NW8	WSW3
27	NNW9	NNW3	NW6	N4	S3	SSW3	WNW3	WNW6	NNW11	NNW6	S3	WNW7	WNW8	NW6	W12	NW12	NW13	NW12	NW10	NNW7	NE8	NE3	S3	E3	NW5
28	ENE1	E1	SW1	NNW2	WNW2	NW0	SSW3	SSW5	S7	S14	S15	S16	S13	S14	S14	S14	SSW15	SSW12	SSW11	SSE8	WSW6	W17	W16	WSW10	SSW7
29	SSW8	SW11	S6	SSE5	WSW6	SSE4	SW10	W7	NW8	WNW13	W29	W25	W24	W19	W19	W31	W30	W31	W30	W26	W17	WNW10	NW15	N7	W14
30	N4	S1	NNW17	NNW15	NNW13	NNW10	NNW14	NW9	NNW7	WNW8	WSW12	SW14	SSW14	SSW12	SW12	S9	WSW7	W11	WSW10	W10	NW11	N12	N8	SSE2	WNW6
31	NE1	NNW17	NNW28	NNW15	NNW10	NW8	NW11	NNW18	NNW20	NNW16	NW15	NW17	NW14	NW12	NW14	NW8	WNW16	WNW16	NW13	WNW11	WNW7	N5	N2	S2	NW12
1	N1	WSW0	NW2	NNW1	NNW4	SW2	WNW3	NNW5	NE4	ENE8	SSE6	S10	SW3	S5	SSE5	SSE6	SSE5	ESE6	E5	E7	E6	ENE9	ENE11	ENE8	ESE2
2	NNW1	NNE4	NNE5	NE6	ENE3	SSE2	SE3	S10	SSW16	WSW17	WSW13	W11	W10	WNW13	WSW15	WSW14	WSW17	WSW16	WSW16	WSW16	WSW14	WSW9	SSW4	SW6	WSW8
3	SSW3	SE4	SSE6	SSE4	S6	S5	SSW5	WSW4	SSW7	SSW13	SSW13	S16	S17	S17	S15	S15	S13	WSW15	SSW9	S5	SE5	SE7	SSE8	SSE6	S8
4	SE7	SE8	SSE6	SSE5	SE5	SSW2	WSW7	SW7	WNW3	NNW6	ENE5	NE4	ENE6	ENE3	W15	W11	WSW10	WSW10	SW8	S7	SSE6	SSW4	W11	WSW8	SW3
5	SSW3	SE4	SW3	SW7	SSW4	S2	S3	SW6	SW17	WSW23	WSW18	WSW19	WSW17	WNW7	W9	W21	WNW18	NNW20	N18	N18	N12	NNW12	NNW24	NNW15	WNW7
6	N8	NNW5	NW9	NW11	NNW11	NW14	NNW16	NNW19	NNW19	NNW15	NNW6	NW12	NW14	WNW26	W26	WNW26	WNW23	NW24	WNW16	NNW21	NNW17	NNW17	N10	NNW8	NW14
7	N5	SE3	SE3	ESE3	SSE3	SSE4	SSW5	WSW9	W3	W2	W7	SSW6	S11	S14	WSW12	S5	ENE12	ENE16	ENE14	NE10	NE8	N7	N11	N10	E1
8	NNW12	N10	NE12	NE13	NE9	NNE11	NE12	NNE14	NNE15	NNE16	NE16	NE16	NNE17	NNE18	NNE18	NNE14	NNE14	NNE18	NNE18	N19	N17	N22	N23	NNE18	NNE15
9	N15	NNE19	NE17	NE14	NNE11	NNW10	NNW10	NNE13	NNE12	NE12	NE14	N17	NNE12	NE12	NE14	ENE14	NNE16	NNE15	NE4	E6	NW4	N9	N7	N9	NNE11
10	N10	N11	N10	N9	N10	N12	N11	NE13	NE12	ENE11	ENE14	ENE14	ENE14	ENE12	NE12	NE12	NE10	NNE10	NE7	NNE2	E3	SSE0	N5	N5	NE9
11	N5	NNW5	NNW5	NNW5	N8	N5	NW6	NNW10	NNW9	N11	NNE13	NNE15	NNE16	+	+	+	+	+	+	+	+	+	+	+	N8
	N2	NNE2	N3	N3	NNW2	NNW2	NW3	NW4	NW5	NW4	WNW4	WNW4	WNW4	WNW4	WNW6	WNW5	WNW5	NW6	NW5	NW4	NNW3	N3	N3	N2	

Diurnal Average

C - Calibration		* - Instrument failure				+ - Not in service			
Maximum Speed in Table: 52	First Occurrence on Day 14 Hour 16	Frequency: 1	Hours in Service: 805		Speed Percent Operational Time: 98.88				
Minimum Speed in Table: 0	First Occurrence on Day 9 Hour 2	Frequency: 7	Hours of Speed Data: 796		Direction Percent Operational Time: 98.88				
Maximum Daily Speed: 19.9	First Occurrence on Day 21	Minimum Daily Speed: 0.9	First Occurrence on Day 13	Hours of Direction Data: 796		Velocity Percent Operational Time: 98.88			
Maximum Diurnal Speed: 6.0	First Occurrence at Hour 18	Minimum Diurnal Speed: 1.7	First Occurrence at Hour 1	Hours of Velocity Data: 796					
Monthly Average Velocity: 3.3 kph 317 degrees									

Parkland Airshed Management Zone

Bentley - Wind Speed - May 9, 2002 00:00 to June 11, 2002 13:00



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

AMS 110 (Bentley)
May 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	
9	9	5	5	6	5	4	8	7	15	19	21	31	25	23	19	12	24	21	14	13	7	7	6	7	13.0
10	7	8	6	4	5	7	7	12	24	22	24	22	22	22	20	24	16	16	13	5	6	9	9	10	13.3
11	7	10	10	13	12	5	11	26	33	38	37	33	32	31	29	28	30	25	28	18	7	6	5	7	20.0
12	5	5	6	4	6	6	9	7	13	17	20	21	19	20	20	18	19	14	13	8	8	8	7	11	11.8
13	10	10	9	9	10	6	10	12	14	16	18	18	18	15	19	19	19	15	12	13	12	11	9	8	13.0
14	8	7	8	6	11	8	10	9	11	14	16	26	44	59	66	67	60	47	46	41	35	--	--	--	28.5
15	--	--	--	--	--	--	25	24	25	24	23	28	20	15	14	17	13	18	25	18	9	6	6	3	17.4
16	6	6	4	4	6	5	4	10	17	21	20	25	22	24	27	25	26	25	23	22	16	13	17	20	16.2
17	19	18	16	18	13	18	25	29	32	34	42	38	40	37	32	26	32	29	17	16	12	10	5	5	23.5
18	15	15	11	11	11	8	9	14	11	11	13	16	15	19	17	22	22	20	18	14	10	11	21	29	15.1
19	19	15	16	15	14	16	15	25	21	22	25	23	27	27	28	21	21	10	10	16	12	9	17	14	18.3
20	8	6	6	7	7	7	4	7	6	6	14	14	18	18	18	19	18	14	15	14	11	10	18	23	12.0
21	27	24	27	28	27	28	29	32	34	29	25	29	21	36	35	33	26	28	30	25	23	28	28	27	28.3
22	28	27	28	25	27	28	28	29	23	24	31	29	33	35	33	34	30	27	24	28	24	20	17	13	26.9
23	10	9	7	4	3	3	5	13	21	22	23	25	28	25	27	33	29	20	17	19	14	8	5	9	15.8
24	11	13	11	15	15	22	25	26	30	25	30	30	30	26	23	22	25	24	24	23	13	5	5	9	20.1
25	9	14	6	3	5	6	17	21	25	28	28	31	29	32	34	38	31	30	23	20	8	8	3	4	18.9
26	5	8	6	7	6	6	7	8	19	21	22	26	26	26	25	26	20	21	16	7	6	6	5	20	14.4
27	15	10	12	11	6	6	7	10	15	16	13	18	18	20	24	27	23	22	18	12	14	8	6	6	14.0
28	7	8	4	8	6	3	6	8	12	22	21	24	20	24	23	22	26	20	17	13	19	23	20	15	15.5
29	11	17	9	7	11	6	15	14	18	30	41	34	35	31	32	40	39	41	39	33	23	15	23	11	24.0
30	9	11	28	24	19	14	18	13	16	18	24	28	27	22	25	18	21	18	17	14	19	21	16	6	18.6
31	9	35	41	26	13	13	18	26	26	23	26	28	22	22	24	18	25	22	21	15	12	7	7	4	20.1
1	4	6	5	4	8	5	7	9	15	14	16	16	14	14	13	14	12	10	12	13	9	11	13	13	10.7
2	5	15	13	13	11	6	7	14	25	22	19	18	16	20	20	18	21	21	22	20	18	19	9	8	15.8
3	9	7	8	6	10	8	8	10	15	21	21	23	24	25	24	22	24	26	13	12	8	11	10	8	14.7
4	8	9	10	8	7	5	11	10	10	11	12	13	18	18	25	22	20	20	15	11	8	9	16	11	12.8
5	7	6	11	12	9	5	6	15	28	32	22	29	29	33	26	28	28	29	29	27	15	33	38	26	21.8
6	12	10	13	16	13	18	22	26	24	23	15	24	33	40	37	37	31	32	41	31	27	34	14	11	24.3
7	8	5	5	15	5	6	12	14	10	12	18	17	25	28	32	26	19	22	20	13	12	10	16	15	15.2
8	17	14	19	18	14	18	17	21	24	23	23	23	25	24	28	23	23	27	25	25	23	28	29	23	22.2
9	20	24	21	17	17	13	13	16	16	19	22	23	18	20	22	23	22	31	29	14	10	12	11	13	18.6
10	13	13	13	12	13	14	14	19	18	16	21	25	22	20	21	18	18	20	15	9	5	6	6	6	14.9
11	7	10	10	9	10	8	12	14	14	16	19	25	24	--	--	--	--	--	--	--	--	--	--	--	13.7
	11.0	12.1	12.2	11.7	10.8	10.0	13.0	16.2	19.3	20.9	22.5	24.5	24.7	25.8	26.1	25.5	24.6	23.2	21.2	17.6	13.8	13.2	13.0	12.3	

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: 67 First Occurrence on Day 14 Hour 16 Frequency: 1
Minimum Value in Table: 3 First Occurrence on Day 15 Hour 24 Frequency: 6
Maximum Daily Value: 29 First Occurrence on Day 14 Minimum Daily Value: 11 First Occurrence on Day 1
Maximum Diurnal Value: 26 First Occurrence at Hour 15 Minimum Diurnal Value: 10 First Occurrence at Hour 6
Monthly Mean: 17.8 Percentiles: P10 = 6.3 Q1 = 10.2 Median = 16.8 Q3 = 24.2 P90 = 29.2

**Parkland Airshed Management Zone
Summary of Hourly Standard Deviations**

AMS 110 (Bentley)
May 9, 2002 to June 12, 2002
Wind Direction (degrees)

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	
9	55	96	96	78	63	86	56	24	28	33	33	44	42	48	74	41	53	37	29	30	79	33	45	18	50.9
10	24	21	21	25	12	23	12	55	14	15	28	29	28	41	45	32	58	73	89	32	48	72	34	21	35.5
11	19	9	21	22	38	42	26	13	19	18	15	20	19	20	20	32	23	23	23	16	21	14	55	79	25.3
12	33	20	31	84	50	28	25	39	36	36	49	43	67	48	40	41	44	38	45	30	21	35	26	17	38.6
13	16	15	35	15	14	22	18	16	25	30	32	56	73	68	58	86	30	20	17	11	13	19	26	52	32.0
14	54	40	74	66	56	37	24	32	34	76	31	24	14	11	14	12	10	13	12	12	12	PF	PF	PF	31.3
15	PF	PF	PF	PF	PF	PF	20	22	26	29	29	22	29	29	51	73	82	44	10	9	21	30	61	28	34.2
16	24	32	74	22	16	86	86	41	21	22	23	22	25	21	22	19	17	17	16	17	16	18	19	15	28.8
17	15	18	19	16	18	18	19	17	17	20	16	15	15	17	12	12	14	15	24	23	19	28	67	60	21.4
18	23	24	21	21	18	28	92	22	31	34	36	39	40	31	27	22	20	27	28	23	20	28	20	20	29.0
19	28	24	29	31	25	24	21	18	23	17	21	19	19	21	20	21	26	43	58	8	16	14	19	33	24.1
20	49	34	20	27	54	71	66	31	54	46	35	25	25	27	22	23	20	23	23	24	20	22	25	32	33.3
21	28	26	34	35	16	29	36	26	15	12	14	12	18	17	27	36	36	36	35	34	35	36	35	34	27.6
22	33	32	34	30	25	26	31	30	28	30	32	35	26	24	30	28	32	24	19	8	10	14	20	25	26.1
23	19	19	37	84	40	24	21	18	14	15	19	18	19	19	16	17	19	22	28	18	16	13	25	39	24.1
24	14	21	12	42	10	9	11	12	17	21	23	17	24	25	27	28	25	20	16	12	19	35	42	68	22.9
25	23	37	94	50	33	40	29	12	15	16	20	17	19	17	18	16	24	18	22	16	32	34	78	23	29.3
26	22	16	14	13	14	18	16	18	19	23	41	42	37	43	45	46	49	58	24	29	12	26	52	48	30.2
27	20	54	30	66	22	27	64	28	26	55	69	57	58	60	36	37	32	24	30	21	22	69	40	35	40.9
28	88	66	66	100	53	94	31	24	27	22	16	17	22	22	24	21	18	22	14	16	59	8	9	13	35.5
29	14	19	23	22	31	31	21	43	47	43	15	15	19	26	20	13	11	11	11	8	8	19	27	20	21.5
30	62	74	21	18	12	12	21	21	42	42	33	35	28	29	39	43	52	25	23	11	37	27	37	52	33.2
31	84	35	41	21	18	20	20	22	21	24	25	24	22	40	25	41	18	17	17	8	31	22	87	25	29.5
1	76	75	54	67	31	68	50	34	78	32	56	30	82	56	52	40	46	36	33	25	19	11	12	19	45.1
2	88	69	49	59	65	56	33	14	16	9	18	20	29	20	11	14	11	10	8	10	10	24	34	15	28.8
3	72	34	16	19	21	15	18	28	20	18	19	17	20	20	22	20	20	24	18	28	18	14	14	15	22.1
4	14	14	17	18	22	17	13	18	67	41	62	61	61	76	25	36	36	36	32	16	14	45	11	23	32.3
5	31	29	77	17	40	42	24	26	17	11	14	19	33	78	68	11	34	22	28	28	18	27	32	32	31.6
6	28	62	23	20	12	13	15	18	26	29	54	42	36	20	16	13	17	14	48	15	25	26	29	24	26.0
7	15	46	43	40	23	22	30	18	80	80	93	52	33	28	58	65	35	18	20	18	17	32	24	23	38.0
8	23	24	24	18	27	21	19	16	14	19	18	19	20	19	26	23	22	19	20	22	22	21	19	19	20.7
9	19	11	11	10	17	17	19	16	14	23	24	24	25	23	23	20	23	28	85	35	66	24	22	17	24.8
10	21	20	20	12	12	19	22	16	19	21	23	21	23	24	25	19	20	28	26	19	52	23	67	14	23.6
11	15	26	34	34	24	42	43	24	27	23	22	21	25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	27.7
	34.8	34.6	36.8	36.4	28.2	34.2	30.9	23.9	28.7	29.0	31.1	28.6	31.6	32.4	31.5	30.3	29.6	26.8	28.2	19.2	25.7	27.0	34.8	29.9	

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: 100	First Occurrence on Day 28 Hour 4	Frequency: 1	Hours in Service:	805
Minimum Value in Table: 8	First Occurrence on Day 19 Hour 20	Frequency: 7	Hours of Data:	796
Maximum Daily Value: 50.9	First Occurrence on Day 9	Minimum Daily Value: 21	Hours of Missing Data:	9
Maximum Diurnal Value: 37	First Occurrence at Hour 3	Minimum Diurnal Value: 19	Hours of Calibration:	0
Monthly Mean: 30.2	Percentiles: P10 = 14.1 Q1 = 18.3 Median = 23.7 Q3 = 35.4 P90 = 57.8	First Occurrence on Day 8	Percent Operational Time:	98.88
		First Occurrence at Hour 20		

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

AMS 110 (Bentley)
May 9, 2002 to June 12, 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																	
9	-1.4	-1.7	-2.5	-3.7	-3.2	-2.1	1.2	4.3	7.7	9.4	9.2	9.6	9.1	9.9	10.5	9.6	8.6	9.3	9.4	6.4	4.5	2.4	0.4	0.9	4.5																
10	-0.4	-0.1	-1.8	-2.4	-2.9	-2.1	1.2	6.4	8.6	9.9	10.7	10.6	11.6	12.8	13.2	13.7	13.8	15.1	13.1	PF	8.1	6.3	5.4	5.9	6.8																
11	5.1	4.4	3.8	4.7	4.7	4.8	6.2	8.6	10.1	10.3	11.3	12.0	12.3	13.6	14.4	15.2	15.2	13.7	13.5	11.5	9.1	7.2	5.6	2.9	9.2																
12	2.0	2.0	1.8	-0.4	-1.7	-0.3	3.4	9.1	13.2	14.4	15.3	16.1	17.1	18.0	18.3	18.8	19.2	19.7	18.8	17.7	12.5	11.3	10.3	9.8	11.1																
13	8.7	7.0	5.2	3.3	3.8	4.4	6.5	11.6	16.4	18.9	20.0	21.0	21.9	23.0	22.9	23.1	22.1	21.9	21.1	18.6	14.3	13.2	13.4	11.8	14.8																
14	11.0	9.4	7.3	6.9	4.7	6.1	9.8	12.4	14.9	14.7	14.9	15.6	13.0	10.9	7.9	3.3	1.1	0.5	0.3	0.1	0.1	PF	PF	PF	7.9																
15	PF	PF	PF	PF	PF	PF	1.4	2.0	3.2	4.6	6.2	7.2	7.9	8.5	10.0	11.6	11.6	9.2	8.6	7.6	4.7	3.7	3.0	2.1	6.3																
16	0.9	0.2	-1.7	-2.1	-1.7	-1.6	1.9	6.6	8.8	9.9	9.4	10.3	11.4	12.1	12.9	13.4	13.4	13.2	12.6	11.2	8.5	6.6	5.8	5.6	7.0																
17	5.0	3.9	3.2	3.0	2.5	3.0	4.6	6.1	9.2	11.1	12.0	PF	12.3	11.3	9.9	9.1	8.1	7.9	8.1	7.7	7.5	7.0	5.9	4.9	7.1																
18	4.6	5.6	3.9	3.0	2.4	3.1	5.0	7.2	9.0	10.3	11.1	12.6	14.6	16.2	17.0	17.5	17.3	16.8	14.8	12.6	10.0	9.5	10.1	9.6	10.2																
19	9.0	8.9	8.7	8.5	8.1	8.2	8.3	8.9	7.4	7.3	8.4	11.7	15.1	17.0	18.8	19.3	19.8	21.0	20.5	17.7	15.9	14.5	14.0	12.4	12.9																
20	12.2	10.9	9.5	8.0	7.2	7.0	10.1	13.2	14.0	15.5	16.0	17.0	18.4	19.2	19.3	19.1	18.9	19.1	19.0	17.6	15.4	13.4	12.6	11.5	14.3																
21	10.0	9.1	8.4	7.9	7.6	7.5	8.4	9.4	10.8	9.8	8.9	7.6	6.7	6.6	6.0	5.1	3.4	2.2	1.5	1.0	0.4	0.2	0.0	0.3	5.8																
22	0.4	0.3	0.4	0.2	0.1	0.2	0.3	0.5	0.7	1.4	2.6	3.3	4.3	5.1	5.3	6.0	7.0	6.9	6.8	4.5	3.5	2.7	1.9	1.3	2.7																
23	1.0	0.1	-0.6	-1.1	-1.9	-0.9	0.8	2.8	5.0	6.7	8.2	9.7	10.5	10.8	10.9	10.3	9.3	9.0	9.1	8.4	7.4	6.5	5.9	5.4	5.6																
24	4.7	4.6	3.5	3.9	3.8	3.7	3.8	5.0	6.1	7.0	8.2	8.8	9.1	10.1	9.9	9.9	9.9	9.7	9.2	8.3	6.9	4.8	3.2	3.1	6.6																
25	3.8	4.3	3.6	3.0	3.3	5.2	7.8	9.1	10.6	12.3	13.5	13.5	13.9	15.0	15.8	15.8	16.3	15.5	15.2	14.4	11.5	8.9	6.8	3.9	10.1																
26	3.7	3.0	4.1	3.2	2.9	4.5	8.4	13.0	15.6	16.6	17.7	18.7	19.3	20.0	20.6	21.3	21.8	22.0	20.9	19.5	16.3	13.1	11.8	12.9	13.8																
27	12.0	10.6	10.8	9.6	7.8	9.5	13.1	16.3	18.9	19.9	21.3	21.8	22.5	23.5	23.2	23.6	23.1	23.2	22.5	21.1	17.9	16.2	14.2	12.4	17.3																
28	10.0	8.4	6.7	6.0	5.6	6.3	9.9	12.7	16.6	19.5	20.4	21.2	22.0	23.3	24.0	24.5	24.1	25.0	24.3	21.7	19.8	18.9	17.9	16.1	16.9																
29	15.0	15.0	14.2	12.7	11.0	13.0	14.3	17.0	19.1	20.8	21.7	22.2	22.6	22.8	22.4	23.7	23.5	23.0	21.9	20.2	17.4	15.0	15.4	12.8	18.2																
30	10.9	8.7	11.5	10.7	9.0	9.1	11.7	14.6	17.0	17.9	18.2	19.1	19.4	20.9	21.7	23.0	23.7	23.6	22.8	20.2	17.7	16.0	14.7	11.4	16.4																
31	9.9	10.3	9.7	7.4	7.1	7.6	9.8	10.8	12.5	11.7	13.7	15.7	14.9	17.2	17.2	17.4	17.5	17.5	17.0	15.3	13.8	12.4	9.9	7.6	12.7																
1	6.1	4.2	3.2	2.3	1.5	2.9	6.2	10.2	13.8	14.7	15.0	15.1	17.7	17.4	18.3	18.0	18.4	17.9	17.6	17.0	14.9	13.6	13.1	12.8	12.2																
2	11.5	11.3	12.0	12.1	11.7	10.8	11.0	10.8	12.6	13.3	14.4	14.4	13.6	11.8	12.1	13.1	12.9	12.3	11.7	11.1	10.4	9.5	9.1	9.1	11.8																
3	8.8	8.5	8.3	7.9	7.7	7.8	8.3	9.5	11.5	13.3	14.5	15.4	17.3	17.9	18.8	19.2	18.9	17.1	18.0	16.7	14.5	12.0	11.2	10.0	13.0																
4	9.0	8.2	7.2	5.8	5.7	6.9	10.4	12.7	16.9	20.0	21.4	22.6	23.3	22.4	23.1	23.4	23.7	23.6	23.0	21.9	18.4	16.0	15.9	15.1	16.5																
5	13.8	13.0	13.0	11.8	10.2	11.6	13.3	17.0	19.4	20.5	20.8	23.5	23.5	20.8	23.4	23.1	23.5	22.9	18.9	18.2	15.8	13.0	11.7	10.3	17.2																
6	9.4	8.8	8.6	8.4	7.6	8.1	8.9	10.1	12.2	14.0	14.8	14.7	15.8	16.7	17.7	17.7	17.0	16.6	15.4	12.9	10.2	9.8	8.2	6.2	12.1																
7	4.6	2.6	1.3	-0.1	0.5	1.8	7.1	10.6	13.3	12.6	14.0	14.1	15.0	15.3	13.4	12.2	12.3	13.5	12.5	12.0	11.4	9.6	8.7	8.4	9.4																
8	7.2	5.8	6.2	6.0	5.3	5.6	5.8	6.3	7.8	9.3	10.7	12.3	13.2	13.7	14.5	14.9	15.0	14.7	14.7	14.5	13.8	13.1	12.1	11.7	10.6																
9	11.2	11.0	10.3	9.3	8.8	7.5	8.4	10.0	10.5	12.9	14.1	15.0	15.5	16.1	17.4	17.8	15.9	15.6	11.1	11.0	10.4	9.9	9.3	8.0	12.0																
10	7.2	6.8	6.7	6.5	6.4	7.0	9.0	11.1	13.5	15.0	16.6	16.9	16.4	17.7	17.9	16.6	17.1	17.1	16.9	16.1	14.8	12.2	9.7	9.5	12.7																
11	9.1	8.1	7.8	7.3	7.2	8.2	9.4	12.0	15.2	16.0	15.9	17.1	17.4	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	11.6																
	7.2	6.5	5.9	5.1	4.6	5.3	7.2	9.6	11.8	13.0	13.9	14.7	15.3	15.7	16.0	16.1	15.9	15.6	14.9	13.6	11.4	10.3	9.3	8.3																	
	Diurnal Average																																								
ZS - Zero/Span Calibration																								CAL - Multipoint Calibration						M - Maintenance						DAF - Data Aquisition Failure					
AF - Analyzer Failure																								UO - Unstable Operation						PF - Power Failure						NS - Not in Service					
Maximum Value in Table: 25.0				First Occurrence on Day 28 Hour 18				Frequency: 1				Hours in Service: 805																													
Minimum Value in Table: -3.7				First Occurrence on Day 9 Hour 4				Frequency: 1				Hours of Data: 794																													
Maximum Daily Value: 18.2				First Occurrence on Day 29				Minimum Daily Value: 2.7				First Occurrence on Day 22																													
Maximum Diurnal Value: 16.1				First Occurrence at Hour 16				Minimum Diurnal Value: 4.6				First Occurrence at Hour 5																													
Monthly Mean: 11.14				Percentiles: P10 = 2.94 Q1 = 6.96 Median = 10.82 Q3 = 15.53 P90 = 19.49				Percent Operational Time: 98.63																																	

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

AMS 110 (Bentley)
May 9, 2002 to June 12, 2002
Relative Humidity (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	
9	71.2	70.9	74.0	80.5	75.3	71.6	64.9	61.1	47.5	40.0	34.2	31.0	32.9	34.1	32.5	32.6	38.0	37.9	35.8	45.8	51.2	56.4	62.9	59.8	51.8
10	66.0	65.3	72.6	74.7	76.3	74.6	69.2	55.0	44.4	39.6	35.3	33.5	28.9	27.0	24.8	23.0	22.3	20.8	24.4	PF	34.3	46.0	49.8	44.6	45.8
11	46.3	48.7	53.4	56.5	61.9	64.4	63.6	54.5	46.6	45.1	42.0	37.5	36.2	32.2	29.9	28.0	27.1	28.7	29.5	33.6	39.8	46.3	50.3	59.7	44.2
12	60.5	64.5	62.9	73.8	77.8	72.5	63.7	50.8	39.6	31.8	30.0	28.5	26.9	25.5	23.8	22.6	22.0	21.4	21.0	24.4	36.3	37.9	41.0	44.5	41.8
13	51.2	58.5	65.4	71.8	68.6	62.8	57.7	47.8	34.4	25.6	22.2	20.5	20.1	18.3	17.4	17.4	18.3	18.1	19.3	23.0	34.8	38.2	37.8	42.7	37.2
14	44.1	47.5	55.8	57.5	63.8	61.4	51.8	45.6	41.4	41.5	41.3	39.6	56.9	68.2	70.8	85.1	91.4	93.5	94.1	95.0	95.4	PF	PF	PF	63.9
15	PF	PF	PF	PF	PF	PF	88.1	86.1	81.5	77.0	75.4	70.0	63.3	57.5	48.5	43.1	42.1	58.2	63.8	67.1	74.6	73.9	75.7	79.8	68.1
16	84.9	86.4	92.1	94.5	95.1	90.0	83.5	69.8	60.4	51.9	46.5	44.9	42.4	42.6	39.3	37.5	36.6	36.5	35.5	36.4	46.0	52.6	55.6	59.6	59.2
17	63.5	69.5	73.1	74.0	74.7	73.6	70.1	67.9	60.5	53.8	50.5	PF	49.9	56.9	68.1	74.6	80.1	81.7	83.1	85.3	84.2	85.4	88.6	91.3	72.2
18	93.2	89.6	91.4	94.4	94.5	93.8	89.0	84.4	77.6	74.0	72.1	66.6	55.8	42.1	38.9	36.4	37.2	40.1	50.7	66.8	85.9	90.9	88.7	86.5	72.5
19	85.9	78.2	68.5	60.7	57.1	55.9	56.3	58.2	73.0	77.8	75.7	67.1	56.4	52.2	46.2	43.8	41.5	38.8	41.2	47.6	53.5	58.1	58.7	62.7	59.0
20	58.4	59.8	63.4	69.7	69.1	72.1	66.7	49.4	47.0	45.0	45.0	42.6	41.6	39.3	39.2	39.7	38.6	36.9	36.9	41.5	48.3	55.2	56.9	59.5	50.9
21	64.5	68.0	71.8	74.2	74.9	74.2	71.5	67.3	62.1	64.1	69.4	78.1	84.4	82.4	75.9	75.8	80.5	82.4	82.2	83.6	85.3	83.3	82.8	80.8	75.8
22	82.0	85.5	84.3	86.7	88.2	87.6	86.2	84.6	83.3	80.0	67.6	57.8	51.5	46.0	43.4	39.8	38.7	41.8	42.5	55.7	60.7	63.0	69.5	73.1	66.6
23	75.8	79.8	82.6	84.9	88.4	84.6	72.0	61.7	48.4	40.4	39.2	34.4	32.1	30.3	32.9	38.3	45.9	47.1	49.1	55.6	63.3	70.5	75.2	81.7	58.9
24	83.5	83.8	88.1	85.4	85.6	84.4	84.0	81.9	75.5	69.1	61.8	57.8	54.4	50.3	48.2	47.8	48.7	49.0	50.9	55.0	62.2	68.1	73.6	77.2	67.8
25	78.7	77.9	79.2	81.0	81.2	73.8	65.6	59.6	54.9	43.2	38.1	35.8	33.5	29.5	27.5	28.5	28.7	31.1	31.6	34.1	42.3	46.3	51.8	62.9	50.7
26	62.6	64.5	60.2	63.5	65.2	62.0	56.6	48.9	37.6	31.8	27.0	24.2	23.7	22.3	20.6	19.8	19.1	19.0	21.4	23.6	29.4	37.8	43.8	43.2	38.7
27	45.2	48.8	48.1	52.1	57.5	54.4	48.9	42.6	34.7	31.5	29.6	27.8	27.1	25.7	25.1	24.9	26.7	25.6	27.3	30.2	40.9	48.1	52.5	58.1	38.9
28	67.0	74.5	80.0	84.3	84.5	82.8	73.5	65.3	54.2	41.4	39.9	32.9	30.9	29.7	28.7	29.4	30.2	29.2	31.2	37.1	42.6	39.1	39.8	43.1	49.6
29	46.6	44.8	48.3	52.7	56.9	53.9	52.1	44.6	40.4	34.4	28.1	24.5	22.9	23.2	22.7	19.2	17.8	19.5	22.2	25.2	29.9	36.6	39.3	50.2	35.7
30	58.7	64.0	55.2	60.7	65.6	66.1	58.6	46.4	37.1	34.5	34.5	32.8	30.7	26.8	24.3	22.3	19.0	17.8	18.7	24.1	32.8	38.5	39.6	49.3	39.9
31	56.4	54.7	58.2	71.2	71.2	69.2	62.4	52.5	46.1	45.6	39.1	30.8	30.5	28.1	26.4	26.3	25.4	25.3	26.7	32.1	36.9	40.2	47.9	55.4	44.1
1	63.8	68.6	71.6	75.1	77.0	73.4	66.4	54.4	41.0	35.4	34.8	36.4	33.9	33.5	31.8	32.6	32.3	32.4	32.3	34.2	40.5	45.5	47.0	46.4	47.5
2	54.1	54.5	49.5	49.1	52.6	57.5	56.0	61.2	60.5	60.6	54.3	53.5	57.7	71.6	72.4	66.2	66.3	68.3	70.1	73.4	75.2	78.4	78.9	77.3	63.3
3	78.4	80.0	82.5	87.9	88.8	88.6	87.4	82.0	73.7	67.0	61.8	55.2	49.1	45.0	44.5	43.7	44.9	49.4	47.2	50.8	55.5	62.9	70.5	77.9	65.6
4	82.7	85.7	87.5	92.0	92.1	87.0	77.2	69.8	53.7	39.1	36.9	32.0	29.8	28.5	25.3	24.8	24.4	25.1	26.4	28.8	36.4	42.9	42.2	43.5	50.6
5	47.2	49.8	49.0	52.4	57.7	55.6	51.4	45.2	39.5	38.5	36.8	29.9	28.5	41.2	28.2	21.8	21.7	27.5	42.5	43.9	53.9	58.4	58.2	63.6	43.4
6	70.2	74.0	72.0	68.2	67.1	62.2	58.1	52.4	43.7	39.0	37.4	32.7	23.7	15.7	14.0	12.2	14.0	15.6	19.1	28.9	38.4	42.6	49.0	54.1	41.8
7	55.8	62.8	66.2	70.1	67.7	66.0	50.0	40.6	31.7	30.5	27.0	28.2	29.3	29.6	33.6	38.5	41.2	36.7	38.7	41.2	44.4	48.5	49.6	53.0	45.0
8	58.0	63.7	66.5	70.1	73.2	71.9	71.9	72.5	69.0	64.9	58.8	54.6	52.6	47.6	44.6	40.7	40.2	41.2	42.3	43.6	49.1	53.8	58.9	61.5	57.1
9	65.2	67.5	70.4	73.5	76.1	81.9	81.2	78.4	74.8	66.6	58.8	55.0	52.1	48.6	42.2	39.6	50.1	54.2	75.3	80.3	84.5	81.5	81.2	84.3	67.6
10	85.5	86.6	86.1	85.2	84.9	84.2	81.4	71.7	65.3	61.6	48.0	39.3	39.5	35.1	32.5	35.3	34.5	32.7	33.4	38.0	45.4	49.6	54.5	58.1	57.0
11	62.3	67.4	65.5	69.2	67.6	65.5	65.6	57.7	46.5	39.0	37.9	36.8	34.8	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	55.1
	65.7	68.1	69.6	72.7	73.9	72.1	67.7	60.9	53.8	48.9	45.2	41.6	40.1	39.0	37.1	36.7	37.7	38.9	41.4	46.4	52.5	55.5	58.5	62.0	
	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: 95.4				First Occurrence on Day 14 Hour 21				Frequency: 1				Hours in Service: 805													
Minimum Value in Table: 12.2				First Occurrence on Day 6 Hour 16				Frequency: 1				Hours of Data: 794													
Maximum Daily Value: 75.8				First Occurrence on Day 21				Minimum Daily Value: 35.7				First Occurrence on Day 29													
Maximum Diurnal Value: 73.9				First Occurrence at Hour 5				Minimum Diurnal Value: 36.7				First Occurrence at Hour 16													
Monthly Mean: 53.57				Percentiles: P10 = 27.41 Q1 = 37.69 Median = 52.46 Q3 = 69.76 P90 = 82.43								Hours of Missing Data: 11													
												Hours of Calibration: 0													
												Percent Operational Time: 98.63													

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

AMS 110 (Bentley)
May 9, 2002 to June 12, 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	
9	0	0	0	0	2	45	146	356	530	684	443	660	451	579	631	253	160	339	191	33	5	0	0	0	229.5
10	0	0	0	0	3	58	163	387	552	703	671	425	652	669	648	636	387	414	133	PF	2	0	0	0	282.7
11	0	0	0	0	0	34	116	316	555	617	833	568	549	655	644	682	505	199	172	47	5	0	0	0	270.7
12	0	0	0	0	3	35	167	399	567	713	820	898	918	891	808	706	572	406	212	100	6	0	0	0	342.5
13	0	0	0	0	3	57	175	403	575	724	837	907	933	864	782	709	475	383	195	71	7	0	0	0	337.5
14	0	0	0	0	3	48	174	169	312	180	178	197	127	438	252	26	9	6	7	5	0	PF	PF	PF	101.5
15	PF	PF	PF	PF	PF	PF	90	209	441	675	803	703	599	523	705	701	466	176	167	73	5	0	0	0	352.0
16	0	0	0	0	6	94	178	402	582	650	351	526	606	737	841	742	585	426	251	92	8	0	0	0	294.9
17	0	0	0	0	9	59	151	335	522	513	449	PF	279	177	253	183	103	90	63	36	5	0	0	0	140.3
18	0	0	0	0	7	76	141	299	395	450	437	571	674	600	479	377	276	164	43	10	0	0	0	0	208.3
19	0	0	0	0	4	25	36	140	112	171	275	654	883	696	749	517	373	329	168	60	11	0	0	0	216.8
20	0	0	0	0	5	69	197	342	307	469	594	818	870	786	655	495	353	262	170	69	10	0	0	0	269.6
21	0	0	0	0	2	28	123	204	316	94	74	55	56	307	174	80	34	25	9	5	0	0	0	0	66.1
22	0	0	0	0	0	5	10	25	56	134	255	339	446	621	493	462	433	295	187	55	7	0	0	0	159.3
23	0	0	0	0	7	77	112	309	396	484	579	708	784	627	522	376	259	200	154	53	6	0	0	0	235.5
24	0	0	0	0	4	35	123	281	377	354	540	412	390	517	372	294	261	234	138	57	11	0	0	0	183.3
25	0	0	0	0	7	82	238	329	570	733	729	634	590	656	655	560	487	262	201	112	15	0	0	0	285.8
26	0	0	0	0	9	105	210	427	592	723	793	922	948	929	862	753	612	446	279	90	16	0	0	0	363.2
27	0	0	0	0	9	105	209	425	555	662	827	827	943	837	760	661	546	434	217	99	10	0	0	0	338.6
28	0	0	0	0	14	65	170	365	469	607	651	713	742	923	827	713	437	448	242	53	5	0	0	0	310.2
29	0	0	0	0	11	90	114	281	557	631	838	821	751	665	403	768	625	468	288	137	15	0	0	0	311.0
30	0	0	0	0	7	103	231	430	592	737	714	923	747	937	854	736	624	463	232	78	15	0	0	0	351.0
31	0	0	0	0	7	49	256	285	561	263	608	680	304	838	508	549	593	503	258	71	17	0	0	0	264.6
1	0	0	0	0	15	104	218	293	511	536	363	483	889	575	570	411	383	258	198	87	10	0	0	0	246.0
2	0	0	0	0	2	13	24	81	191	317	404	267	181	209	279	221	202	119	72	45	11	0	0	0	109.9
3	0	0	0	0	3	15	31	152	267	526	616	525	892	778	816	736	467	229	260	89	21	0	0	0	267.6
4	0	0	0	0	17	105	272	275	568	737	826	780	853	477	720	588	568	421	256	112	10	0	0	0	316.0
5	0	0	0	0	10	98	163	323	590	685	526	977	622	565	459	392	443	421	171	135	21	0	0	0	275.0
6	0	0	0	0	5	47	135	250	486	687	558	388	583	685	926	712	430	321	227	68	12	0	0	0	271.7
7	0	0	0	0	9	119	261	448	538	547	644	568	917	887	299	196	490	440	164	64	21	0	0	0	275.5
8	0	0	0	0	11	81	94	197	318	338	405	597	637	558	619	484	337	241	187	96	23	0	0	0	217.6
9	0	0	0	0	7	40	89	128	102	489	422	554	329	360	521	348	162	115	21	34	15	2	0	0	155.8
10	0	0	0	0	12	109	191	298	553	718	866	778	440	727	573	243	375	265	154	100	36	2	0	0	268.3
11	0	0	0	0	6	45	152	336	422	464	513	713	645	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	253.5
	0.0	0.0	0.0	0.0	6.6	64.2	151.8	291.1	442.3	529.9	571.8	624.0	624.4	645.2	595.7	494.2	394.9	297.0	172.3	69.9	10.9	0.1	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: 977					First Occurrence on Day 5 Hour 12					Frequency: 1					Hours in Service: 805										
Minimum Value in Table: 0					First Occurrence on Day 9 Hour 1					Frequency: 231					Hours of Data: 794										
Maximum Daily Value: 363.2					First Occurrence on Day 26					Minimum Daily Value: 66					Hours of Missing Data: 11										
Maximum Diurnal Value: 645					First Occurrence at Hour 14					Minimum Diurnal Value: 0					First Occurrence at Hour 1										
Monthly Mean: 252.0					Percentiles: P10 = 0.8 Q1 = 0.9 Median = 133.5 Q3 = 471.9 P90 = 702.2										Percent Operational Time: 98.63										

Portable AQM Station, Bentley

MAY - JUNE 2002

Field Sampling Date	Sample ID#	Concentration ug/m ³
5/14/2002	PM 2.5 54595	6.3
5/14/2002	PM 2.5 - 10 46094	34.9
5/14/2002	PM 10	41.2
5/20/2002	PM 2.5 54600	16.2
5/20/2002	PM 2.5 - 10 40119	36.5
5/20/2002	PM 10	52.7
5/26/2002	PM 2.5 54424	5.8
5/26/2002	PM 2.5 - 10 46880	25.8
5/26/2002	PM 10	31.6
6/1/2002	PM 2.5 51140	15.2
6/1/2002	PM 2.5 - 10 54482	28.8
6/1/2002	PM 10	44.0
6/7/2002	PM 2.5 38948	5.0
6/7/2002	PM 2.5 - 10 36942	14.1
6/7/2002	PM 10	19.1

Portable AQM Station Particulate Sampling Results Bentley Site

