

Louisville Metro Air Pollution Control District
850 Barret Avenue
Louisville, KY 40204

Subject: Exceptional Events Flagging

Parameter: PM_{2.5}

Dates: July 4, 2004
July 3 and 4 2005
July 3 and 4 2006

Reason: The Louisville Metro community like many large communities has a tradition of celebrating the fourth of July with several activities throughout the day ending with a huge fireworks display that typically begins between 9-10 pm. In 2005 the community added additional events on July 3rd which also ended with a fireworks display. There are also numerous other displays throughout the metro area including celebrations in New Albany Indiana, Clarksville Indiana, and Jeffersonville Indiana. Unfortunately this traditional celebration may have a short term impact on air quality especially if meteorological conditions are such that dispersion of the smoke plumes from these events are hindered. The short term effects typically last 2-4 hours and depending on the conditions and duration can substantially impact the particulate loading on PM_{2.5} samples. Therefore in accordance with the Final Rule on Treatment of Data Influenced by Exceptional Events the Louisville Metro Air Pollution Control District has flagged the data listed in Table 1 and respectfully request's EPA concurrence with this action.

Data: Attached are copies of 1-minute data collected by continuous PM samplers located throughout the network and ground level meteorological data that show calm conditions at the time fireworks displays were occurring.

Two of the primary components of fireworks are sulfur and potassium nitrate. Sulfur is used as the fuel and potassium nitrate is used as an oxidizer. Trace amounts of metals such as iron, aluminum, and magnesium are also typically used but most of these are consumed during the display and may not result in significant increases of these compounds on ambient samplers. Included are annual reports of potassium and sulfur measured at the PM_{2.5} speciation site that show elevated levels of sulfur and potassium on 7/3/2005 and 7/4/2006. The potassium reports show significantly higher levels occurred on the dates of the fireworks. Because there are numerous sources of sulfur emissions in and surrounding the Louisville Metro area the sulfur reports only show elevated levels on the dates of the fireworks. No speciation data was available for the 7/4/2004 event as this was not a scheduled run date for the speciation network.

Table 1
 FRM PM_{2.5} 24-hour Averages
 Values in **BOLD** have been flagged in AQS

Date	21-111-0048 Barret	21-111-0043 Southwick	21-111-0043 Southwick Collocated	21-111-0051 Watson	21-111-0044 Wyandotte
7/4/2004	No sample	33.1	25.4	No sample	26.4
7/3/2005	24.9	24.1	23.7	28.9	27.5
7/4/2005	No sample	29.5	29.7	No sample	32.2
7/3/2006	No sample	31.7	32.6	No sample	32.1
7/4/2006	35.3	29.6	31.5	32.8	31.7

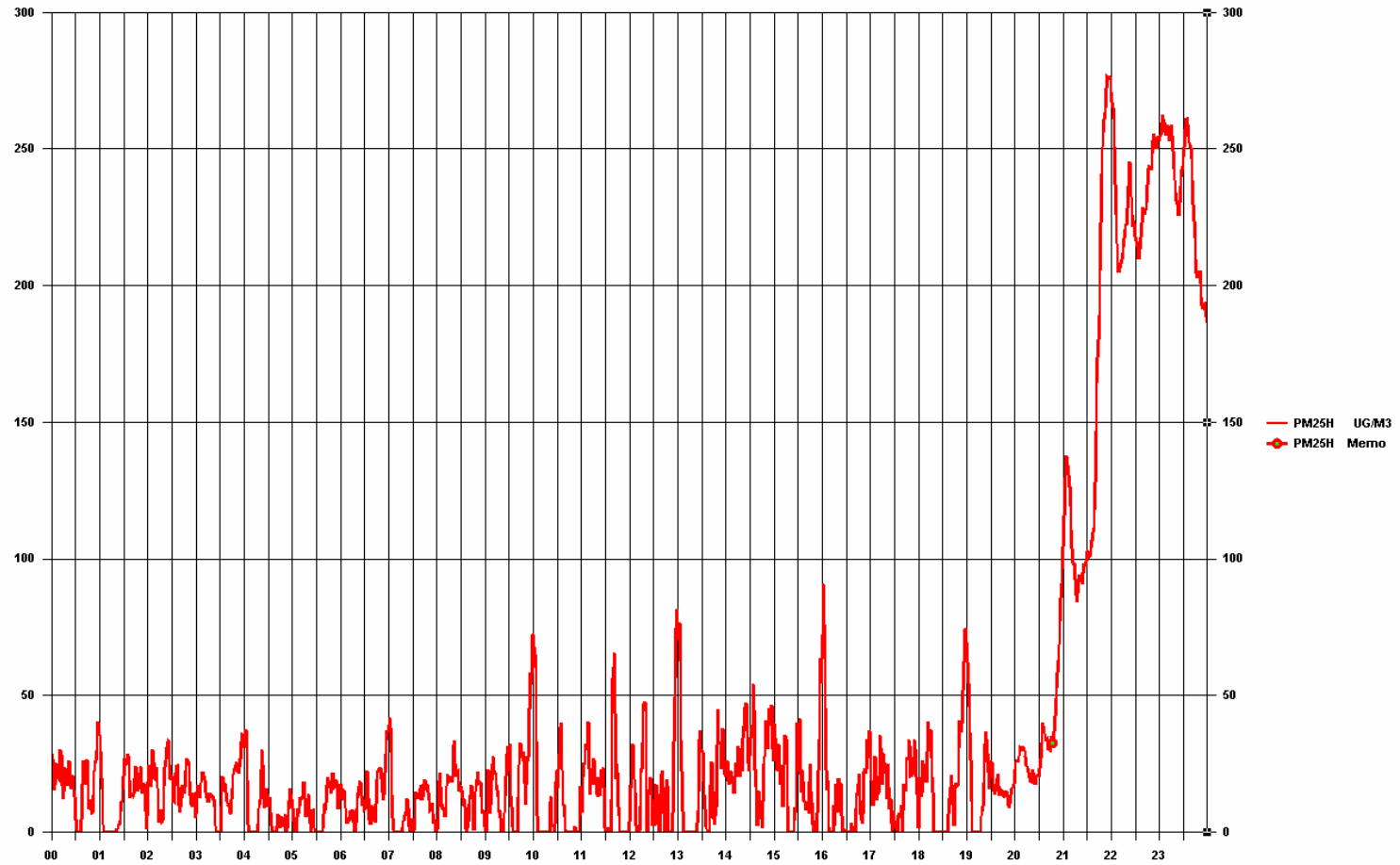
Daily Data Report - Hourly Averages
 Louisville Metro Air Pollution Control
 07/04/04

Logger Id : SW

Logger Name : Southwick Community Center

Interval : 001H

Param :	RH	WSPD	WDIR	OT	PRES	MPH	DEGF
Units :	%	M/S	DEGS	DEGC	MMHG	MPH	DEGF
Hour							
00	75	2.7	203	26	746	6.4	79
01	78	3.1	203	25	746	7.4	78
02	81	2.5	204	25	745	5.9	77
03	82	2.5	213	25	745	5.9	77
04	78	2.4	214	25	745	5.7	78
05	80	2.3	206	25	745	5.5	77
06	84	2.0	210	25	746	4.8	77
07	83	2.3	218	25	746	5.7	78
08	78	3.1	242	27	746	7.6	81
09	71	3.2	248	28	746	7.5	83
10	63	3.7	254	30	747	8.9	86
11	55	3.8	261	31	747	9.0	89
12	51	4.2	256	330	747	10.2	920
13	48	4.0	245	34	746	9.6	94
14	47	3.7	248	35	746	9.1	95
15	47	4.1	255	35	746	9.6	95
16	50	4.0	250	34	746	9.3	94
17	51	3.6	260	350	746	8.5	950
18	66	3.7	314	30	747	9.5	86
19	79	.9	177	24	747	3.4	76
20	81	.5	347	23	747	2.5	75
21	84	.7	239	23	747	2.1	74
22	86	1.1	211	23	747	2.7	74
23	87	1.4	208	23	747	3.3	74
Max :	87	4.2	347	35	747	10.2	95
Min :	47	.5	177	23	745	2.1	74
Mean :	70	2.3	239	27	746	6.6	82
Hours :	24	24	24	24	24	24	24



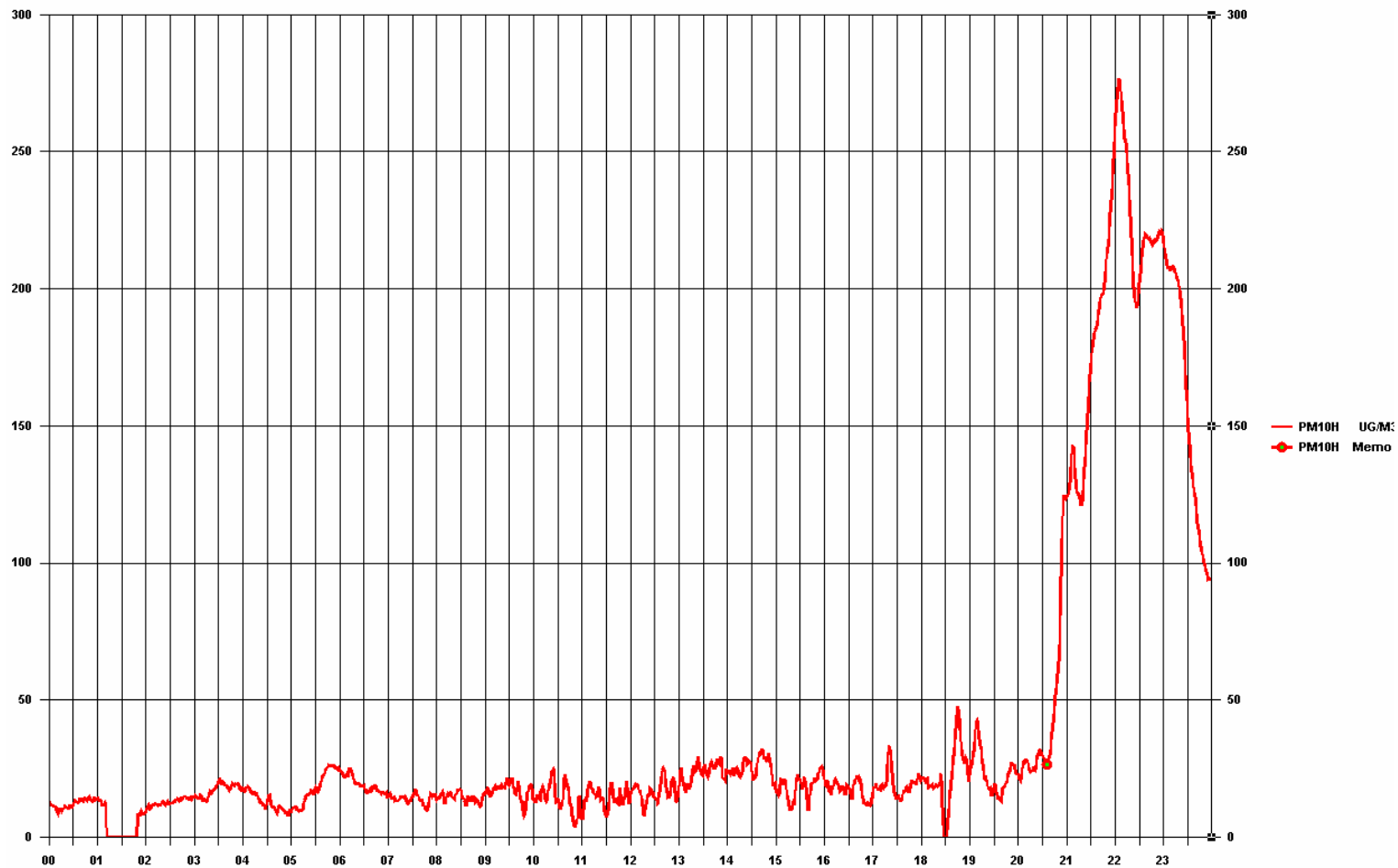
7/4/05

1-minute data for Southwick Continuous PM_{2.5} sampler

Peak value was 276 $\mu\text{g}/\text{m}^3$

24-hour average was 39.8 $\mu\text{g}/\text{m}^3$

FRM 24-hour average = 33.1 $\mu\text{g}/\text{m}^3$



7/4/05

1-minute data for Wyandotte Continuous PM₁₀ sampler

Peak value was 280 $\mu\text{g}/\text{m}^3$

24-hour average was 38.8 $\mu\text{g}/\text{m}^3$

PM_{2.5} FRM 24-hour average = 26.4 $\mu\text{g}/\text{m}^3$

Daily Data Report - Hourly Averages
 Louisville Metro Air Pollution Control
 07/03/05

Logger Id : SW

Logger Name : Southwick Community Center

Interval : 001H

Param :	RH	WSPD	WDIR	OT	PRESS	MPH	DEGF
Units :	%	M/S	DEGS	DEGC	MMHG	MPH	DEGF
Hour	-----						
00	64	1.2	17	23	749	2.8	74
01	68	1.1	21	22	749	2.7	72
02	70	1.1	8	22	748	2.7	71
03	71	1.1	11	21	748	2.5	71
04	72	1.1	39	21	748	2.7	70
05	74	1.3	26	21	749	3.3	70
06	73	1.4	43	21	749	3.4	70
07	68	1.5	48	22	749	3.7	73
08	62	.7	65	24	750	2.5	76
09	56	.3	6	27	750	2.2	80
10	52	.6	274	28	749	3.4	84
11	46	.1	220	30	749	2.4	87
12	43	1.5	273	31	749	4.6	89
13	41	2.0	265	32	748	5.5	90
14	40	1.8	249	33	748	5.4	91
15	40	2.7	287	33	748	6.6	91
16	38	2.5	282	33	748	6.4	91
17	39	2.2	289	32	748	5.5	90
18	41	2.3	309	32	748	5.7	90
19	44	1.2	294	31	749	3.0	88
20	48	.8	298	29	749	2.2	85
21	55	.7	309	28	749	1.8	82
22	60	.3	221	27	750	1.1	81
23	66	.7	259	25	750	1.9	78
Max :	74	2.7	309	33	750	6.6	91
Min :	38	.1	6	21	748	1.1	70
Mean :	55	.7	280	27	748	3.5	81
Hours :	24	24	24	24	24	24	24

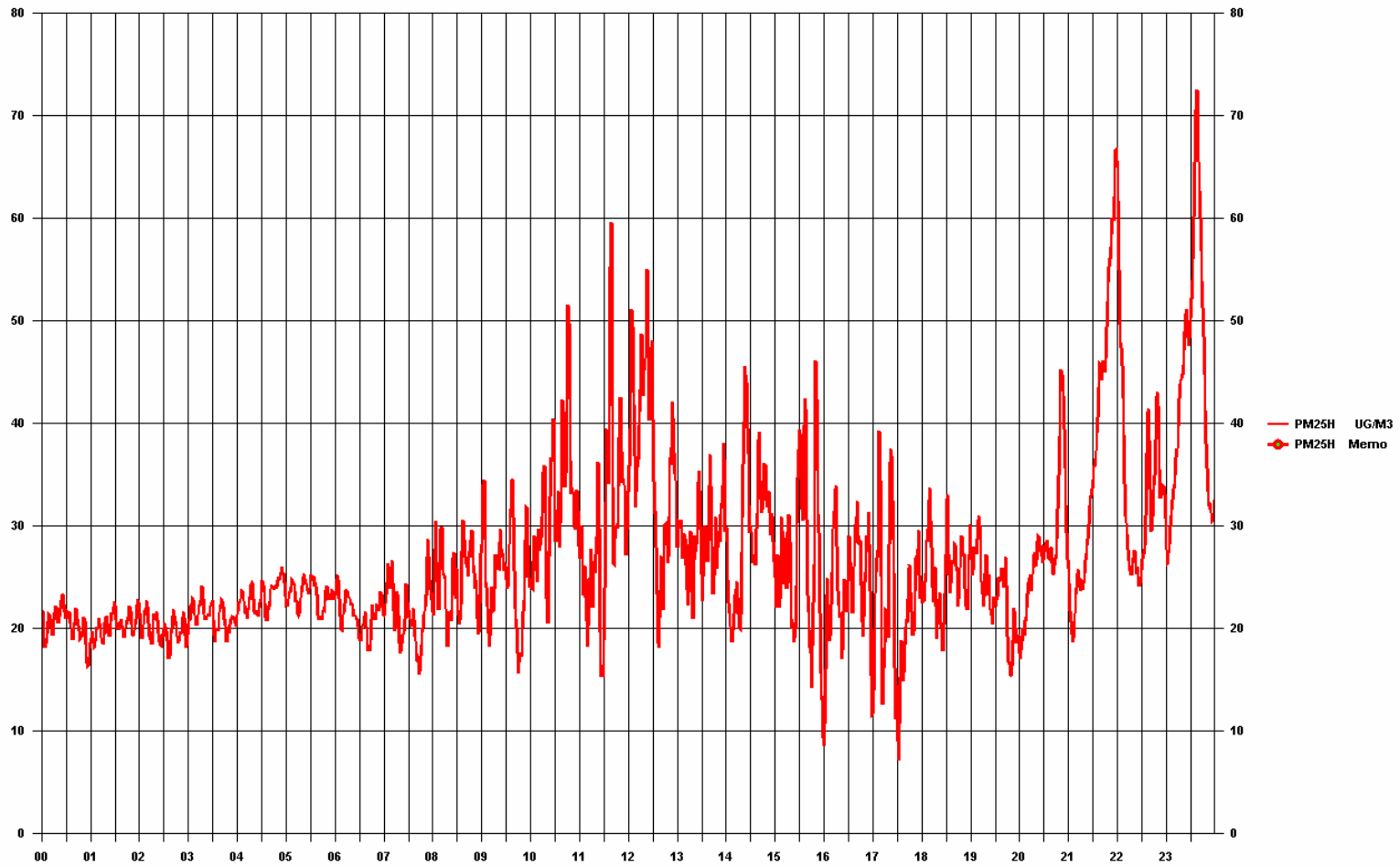
Daily Data Report - Hourly Averages
Louisville Metro Air Pollution Control
07/04/05

Logger Id : SW

Logger Name : Southwick Community Center

Interval : 001H

Param :	RH	WSPD	WDIR	OT	PRESS	MPH	DEGF
Units :	%	M/S	DEGS	DEGC	MMHG	MPH	DEGF
Hour	-----						
00	71	.6	282	24	750	2.0	76
01	72	.5	289	23	750	1.5	75
02	75	.1	68	23	750	1.0	74
03	76	.5	211	23	750	1.5	73
04	82	.4	293	21	750	1.6	71
05	82	.4	222	21	751	1.7	71
06	79	.3	220	22	751	1.9	72
07	67	.8	211	24	751	2.3	76
08	68	1.4	196	26	751	3.5	80
09	63	1.0	173	29	751	3.0	84
10	58	1.5	206	30	751	4.5	87
11	49	1.7	232	32	751	5.1	90
12	44	3.0	261	32	751	7.3	90
13	33	2.9	251	33	751	7.2	93
14	30	1.3	288	34	750	4.9	93
15	28	1.5	238	34	749	4.4	94
16	29	1.8	262	34	749	5.6	94
17	39	2.6	214	33	749	6.8	93
18	49	2.2	216	32	749	5.7	90
19	52	2.8	192	30	750	6.6	87
20	57	2.3	201	29	750	5.4	84
21	61	2.3	200	28	750	5.5	82
22	63	2.0	199	27	750	4.8	81
23	66	2.1	221	27	750	5.2	80
Max :	82	3.0	293	34	751	7.3	94
Min :	28	.1	68	21	749	1.0	71
Mean :	58	1.2	233	27	750	4.1	82
Hours :	24	24	24	24	24	24	24



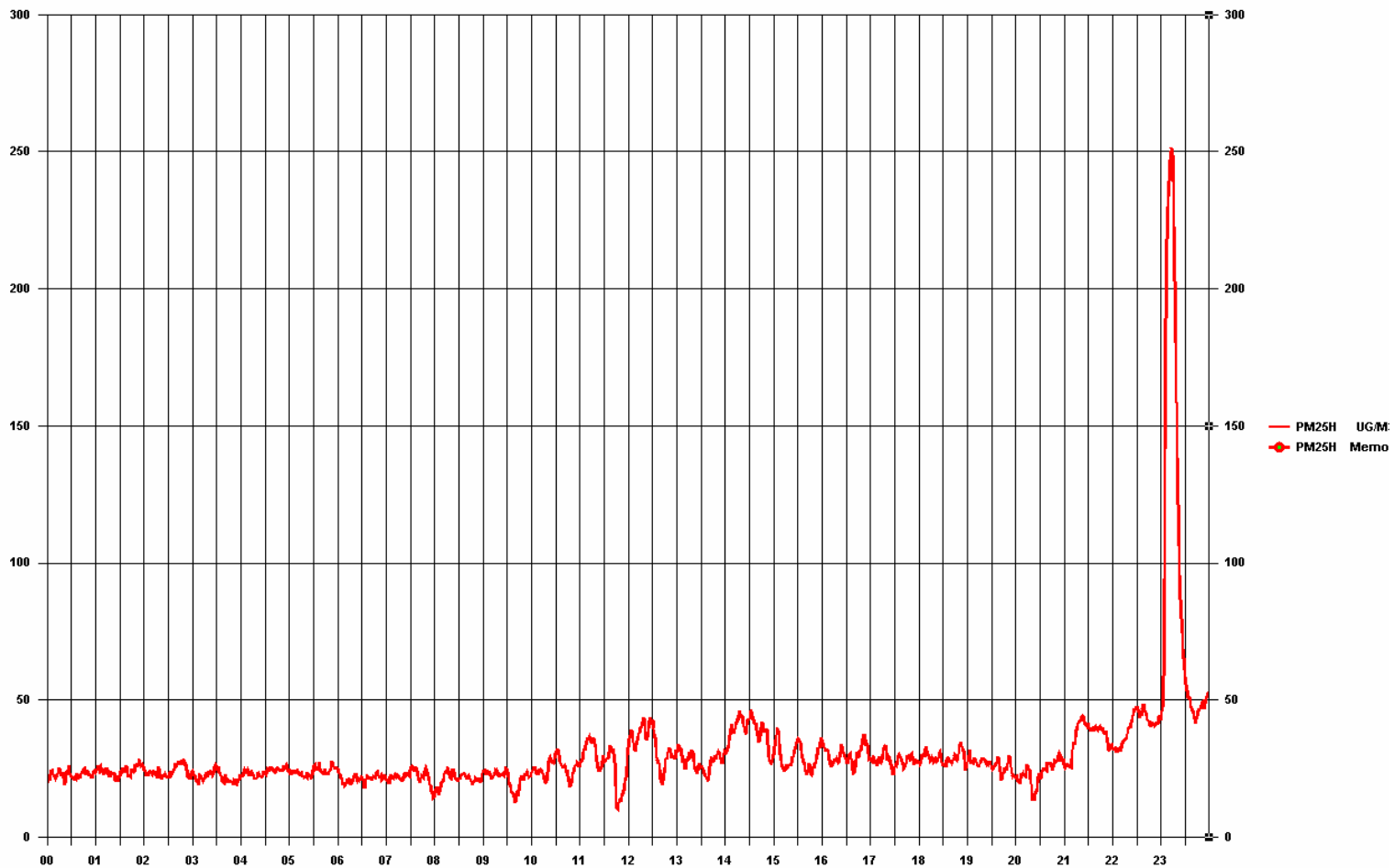
7/3/05

1-minute data for Southwick Continuous PM_{2.5} sampler

Peak value was 74 $\mu\text{g}/\text{m}^3$

24-hour average was 26.7 $\mu\text{g}/\text{m}^3$

FRM 24-hour average = 24.1 $\mu\text{g}/\text{m}^3$



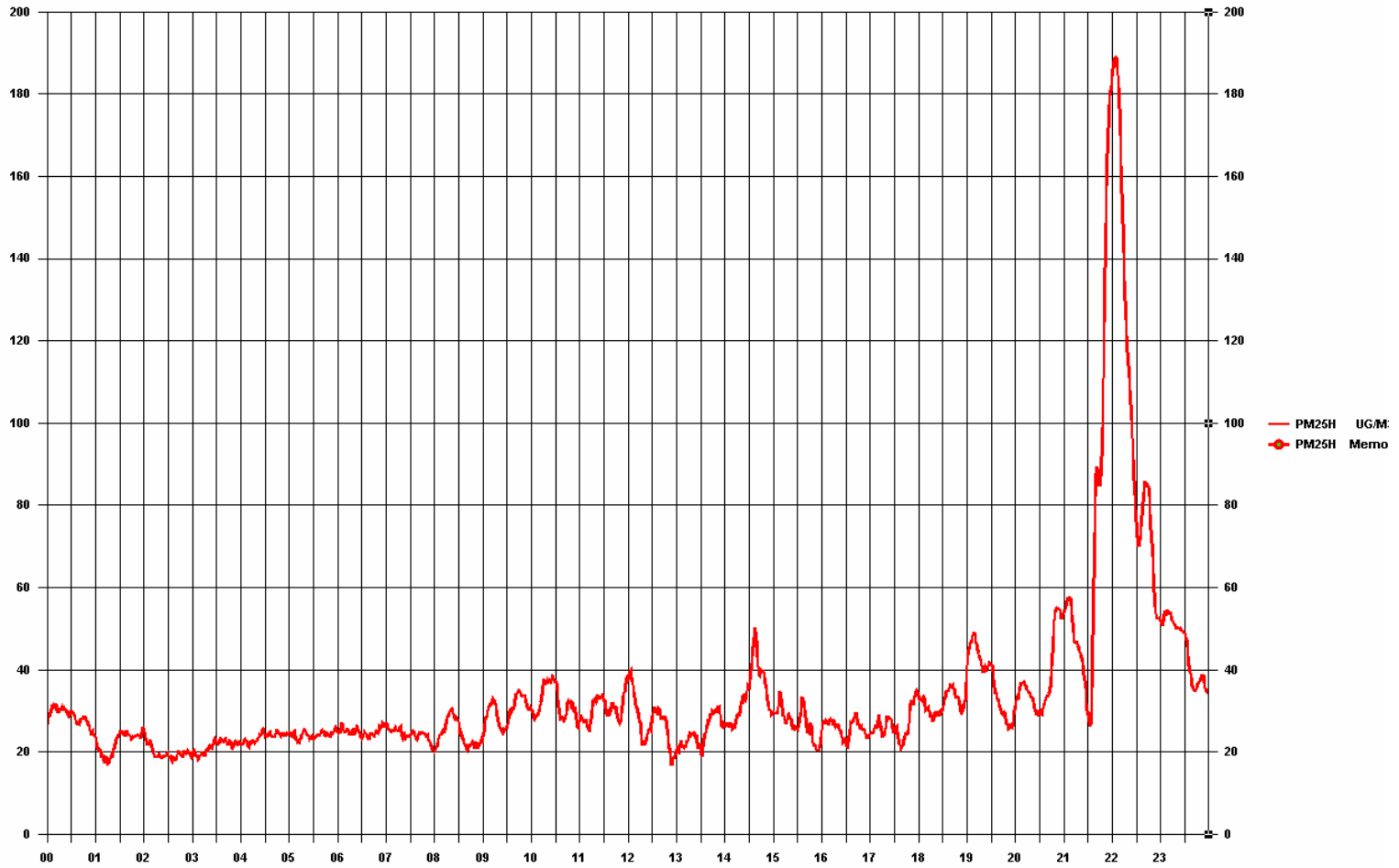
7/3/05

1-minute data for Barret PM_{2.5} sampler

Peak value was 251 $\mu\text{g}/\text{m}^3$

24-hour average was 29.9 $\mu\text{g}/\text{m}^3$

FRM 24-hour average = 24.9 $\mu\text{g}/\text{m}^3$



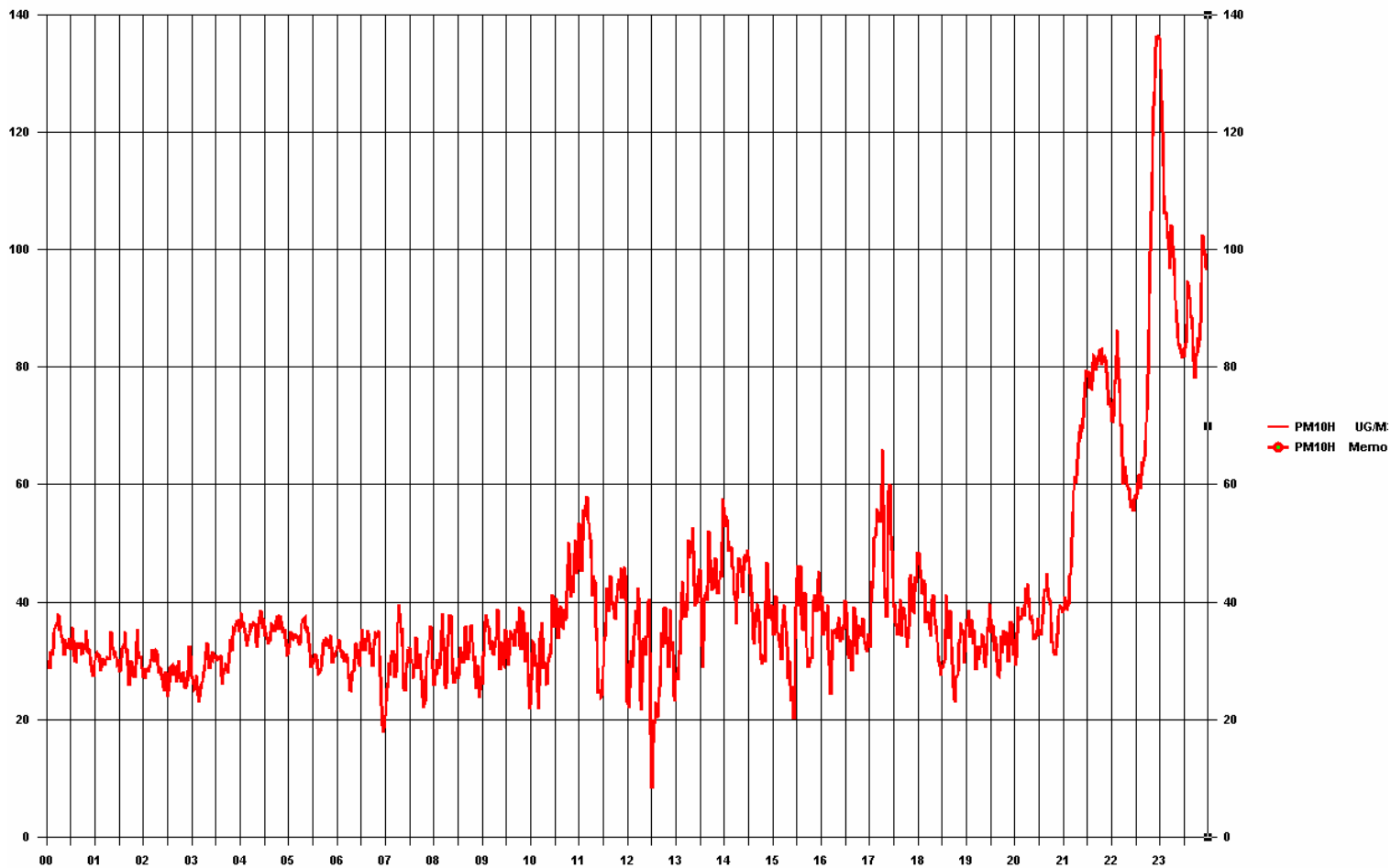
7/3/05

1-minute data for Watson Lane PM_{2.5} sampler

Peak value was 188 $\mu\text{g}/\text{m}^3$

24-hour average was 33.4 $\mu\text{g}/\text{m}^3$

FRM 24-hour average = 28.9 $\mu\text{g}/\text{m}^3$



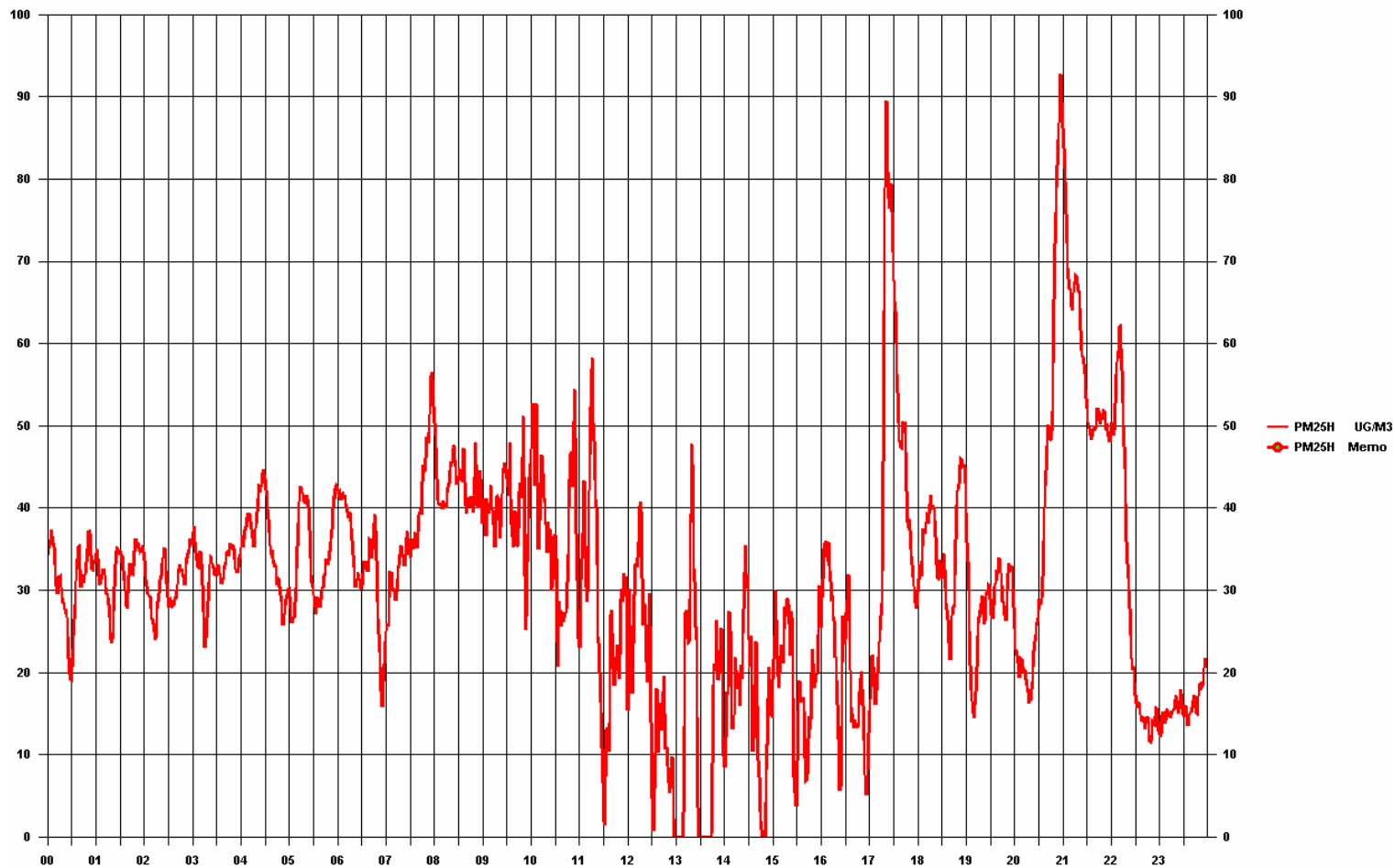
7/3/05

1-minute data for Wyandotte PM₁₀ sampler

Peak value was 137 $\mu\text{g}/\text{m}^3$

24-hour average was 40.1 $\mu\text{g}/\text{m}^3$

PM_{2.5} FRM 24-hour average = 27.5 $\mu\text{g}/\text{m}^3$



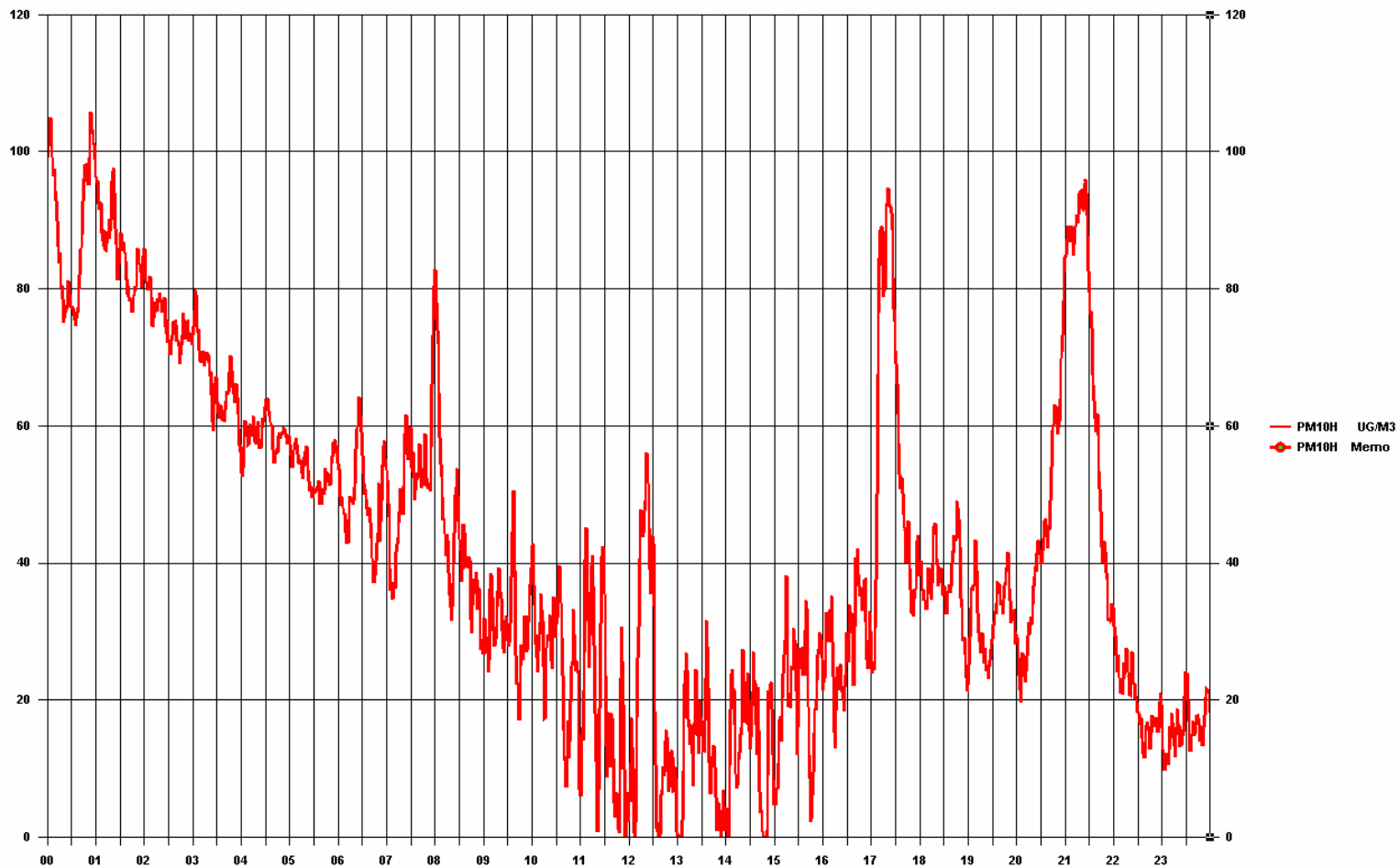
7/4/05

1-minute data for Southwick Continuous PM_{2.5} sampler

Peak value was 95 $\mu\text{g}/\text{m}^3$

24-hour average was 31.3 $\mu\text{g}/\text{m}^3$

FRM 24-hour average = 29.5 $\mu\text{g}/\text{m}^3$



7/4/05

1-minute data for Wyandotte PM₁₀ sampler

Peak value was 96 $\mu\text{g}/\text{m}^3$

24-hour average was 42.6 $\mu\text{g}/\text{m}^3$

PM_{2.5} FRM 24-hour average = 32.2 $\mu\text{g}/\text{m}^3$

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 AIR QUALITY SYSTEM
 RAW DATA REPORT

Sep. 19, 2007

(88169) Sulfur PM2.5 LC

SITE ID: 21-111-0043 FOC: 5
 COUNTY: (111) Jefferson
 CITY: (48000) Louisville
 SITE ADDRESS: 37TH & SOUTHERN AVENUE
 SITE COMMENTS: NAMS NEIGHBORHOOD SCALE TSP REPLACES SITE 2380-028 G01
 MONITOR COMMENTS:

STATE: (21) Kentucky
 AQCR: (078) LOUISVILLE
 URBANIZED AREA: (4520) LOUISVILLE, KY-IN
 LAND USE: RESIDENTIAL
 LOCATION SETTING: SUBURBAN

CAS NUMBER: 7704-34-9
 LATITUDE: 38.233222
 LONGITUDE: -85.825278
 UTM ZONE: 16
 UTM NORTHING: 4232138.1
 UTM EASTING: 602814.25
 ELEVATION-MSL: 0
 PROBE HEIGHT:

SUPPORT AGENCY: (0549) Jefferson County, KY Air Pollution Control District
 MONITOR TYPE: SUPPLEMENT SPECIATION
 COLLECTION AND ANALYSIS METHOD: (811) Mt One SASS Teflon Energy Dispers
 PQAO: (1217) Research Triangle Institute RTP, NC

REPORT FOR: 2005

DURATION: 24 HOURS
 UNITS: Micrograms/cubic meter (LC)
 MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1												
2												
3		3.0900				1.5700	3.4000	4.6900	2.200	2.2500		
4	.4400			1.2200	2.1400							
5			1.4000									
6											1.5200	1.7600
7									4.3200	.4510		
8								1.9800				
9		1.3900				1.8200	2.3800					
10	1.9700			2.6800	2.2900							
11			.9080								1.1700	.7580
12												
13									7.0000	5.0300		
14								1.5100				
15		.9280				.7620	5.1000					
16	.6960			1.4200	.9090							
17			.9330									
18											.9170	.8860
19									3.1600	1.8200		
20								1.9400				
21		1.420				4.8600	2.2400					
22	1.7000			1.2900	3.320							
23			2.1200									
24											.6020	1.3100
25									AQ	.5450		
26								2.4600				
27		1.8800				5.3100	1.0700					
28	.9170			1.0700	.9800							
29			1.3800									
30											.8260	2.1200 5
31										2.1900		
NO.:	5	5	5	5	5	5	5	5	4	6	5	5
MAX:	1.9700	3.090	2.1200	2.6800	3.320	5.3100	5.1000	4.6900	7.000	5.0300	1.5200	2.1200
MEAN:	1.12460	1.7416	1.34820	1.53600	1.9278	2.86440	2.83800	2.51600	4.1700	2.04600	1.00700	1.36680
ANNUAL OBSERVATIONS:	60		ANNUAL MEAN:	2.0051		ANNUAL MAX:	7.000					

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk (**) indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 AIR QUALITY SYSTEM
 RAW DATA REPORT

Sep. 19, 2007

(88303) Potassium Ion PM2.5 LC

SITE ID: 21-111-0043 FOC: 5
 COUNTY: (111) Jefferson
 CITY: (49000) Louisville
 SITE ADDRESS: 37th & SOUTHERN AVENUE
 SITE COMMENTS: NAMS NEIGHBORHOOD SCALE ISF REPLACES SITE 2380-028 G01
 MONITOR COMMENTS:

STATE: (21) Kentucky
 AQCR: (079) LOUISVILLE
 URBANIZED AREA: (4520) LOUISVILLE, KY-IN
 LAND USE: RESIDENTIAL
 LOCATION SETTING: SUBURBAN

CAS NUMBER: 24203-36-9
 LATITUDE: 38.233222
 LONGITUDE: -85.825278
 UTM ZONE: 16
 UTM NORTHING: 4232138.1
 UTM EASTING: 602814.25
 ELEVATION-MSL: 0
 PROBE HEIGHT:

SUPPORT AGENCY: (0549) Jefferson County, KY Air Pollution Control District
 MONITOR TYPE: SUPPLEMENTAL SPECIATION
 COLLECTION AND ANALYSIS METHOD: (812) Met One SASS Nylon Ion Chromatogra
 PQAO: (1217) Research Triangle Institute RTP, NC

REPORT FOR: 2005

DURATION: 24 HOURS
 UNITS: Micrograms/cubic meter (LC)
 MIN DETECTABLE: .014

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1									.054	.105		
2								.041				
3		.107				.046	.649					
4	.007			.040	.058							
5			.050									
6											.007	.083
7									.133	.007		
8								.064				
9		.007				.040	.093					
10	.117			.053	.007							
11			.007								.364	.074
12									.071	.007		
13								.070				
14												
15		.101				.007	.007					
16	.065			.061	.007							
17			.209									
18											.075	.079
19									.060	.089		
20								.062				
21		.052				.007	.007					
22	.007			.007	.083							
23			.054								.007	.097
24									AQ	.007		
25								.097				
26												
27		.154				.090	.007					
28	.185			.053	.007							
29			.072									
30											.039	.007 5
31										.077		
NO.:	5	5	5	5	5	5	5	5	4	6	5	5
MAX:	.185	.154	.209	.061	.083	.090	.649	.097	.133	.105	.364	.097
MEAN:	.0762	.0842	.0784	.0428	.0324	.0380	.1526	.0668	.0795	.0487	.0984	.0680
ANNUAL OBSERVATIONS:	60		ANNUAL MEAN:		.0717		ANNUAL MAX:		.649			

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk ("**") indicates that the region has reviewed the value and does not concur with the qualifier.

Daily Data Report - Hourly Averages
Louisville Metro Air Pollution Control
07/03/06

Logger Id : SW

Logger Name : Southwick Community Center

Interval : 001H

Param :	RH	WSPD	WDIR	OT	PRESS	MPH	DEGF
Units :	%	M/S	DEGS	DEGC	MMHG	MPH	DEGF
Hour	-----						
00	67	1.2	215	28	754	2.9	82
01	68	1.1	217	27	754	2.6	81
02	69	.7	202	26	754	1.9	80
03	70	.8	200	26	753	1.9	79
04	70	.9	202	26	754	2.3	79
05	72	.8	182	25	754	1.9	78
06	70	.9	180	26	754	2.3	79
07	64	.8	243	27	755	2.4	82
08	58	2.0	248	29	755	4.9	85
09	53	2.3	249	31	755	5.5	87
10	48	2.4	255	32	754	6.0	90
11	41	2.9	256	33	754	7.2	92
12	40	3.2	255	34	754	7.9	93
13	39	3.6	260	34	753	8.6	93
14	37	3.8	256	34	753	9.2	94
15	38	3.6	256	34	752	8.6	94
16	39	3.4	251	34	752	8.1	94
17	41	3.2	252	34	752	7.6	93
18	45	2.4	255	33	752	5.5	92
19	49	1.1	253	32	752	2.9	91
20	53	1.0	223	31	752	2.5	89
21	60	1.0	232	30	752	2.6	86
22	62	1.4	209	29	752	3.3	85
23	65	.7	216	28	752	1.9	83
Max :	72	3.8	260	34	755	9.2	94
Min :	37	.7	180	25	752	1.9	78
Mean :	54	1.7	235	30	753	4.6	86
Hours :	24	24	24	24	24	24	24

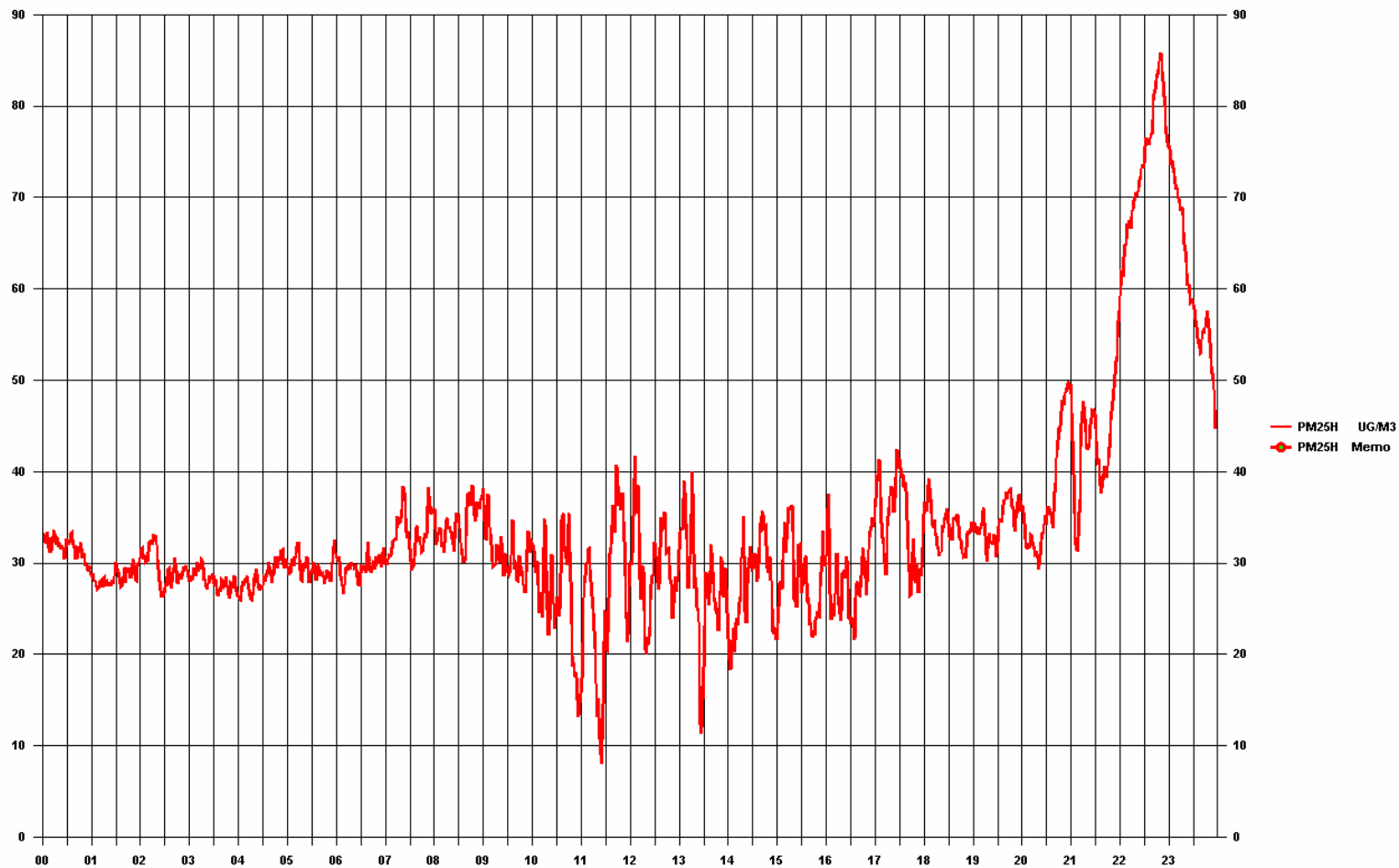
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Louisville Metro Air Pollution Control
07/04/06

Logger Id : SW

Logger Name : Southwick Community Center

Interval : 001H

Param :	RH	WSPD	WDIR	OT	PRESS	MPH	DEGF
Units :	%	M/S	DEGS	DEGC	MMHG	MPH	DEGF
Hour	-----						
00	64	1.0	212	28	752	2.6	82
01	65	1.4	228	28	752	3.5	82
02	65	1.7	224	28	751	4.1	82
03	66	1.7	227	27	752	4.2	81
04	68	1.6	217	26	752	3.9	80
05	69	1.6	210	26	752	4.0	79
06	68	1.3	243	26	752	3.3	80
07	65	2.4	251	27	752	5.8	81
08	62	2.3	267	28	752	5.6	83
09	59	2.4	254	29	752	5.8	85
10	54	2.6	253	31	752	6.4	88
11	51	3.1	257	32	752	7.6	90
12	51	2.7	261	32	751	6.6	90
13	63	1.7	247	29	751	6.4	85
14	75	1.9	213	26	751	5.3	79
15	77	2.4	210	25	750	6.0	78
16	82	2.2	323	25	751	5.5	77
17	86	1.0	347	23	751	3.6	74
18	86	.3	282	24	750	1.5	75
19	84	.6	223	24	750	1.9	76
20	87	.9	201	24	751	2.4	76
21	89	1.0	194	24	751	2.5	75
22	89	.2	222	24	751	1.5	75
23	91	.2	316	24	751	2.2	75
Max :	91	3.1	347	32	752	7.6	90
Min :	51	.2	194	23	750	1.5	74
Mean :	71	1.3	247	26	751	4.2	80
Hours :	24	24	24	24	24	24	24



7/3/06

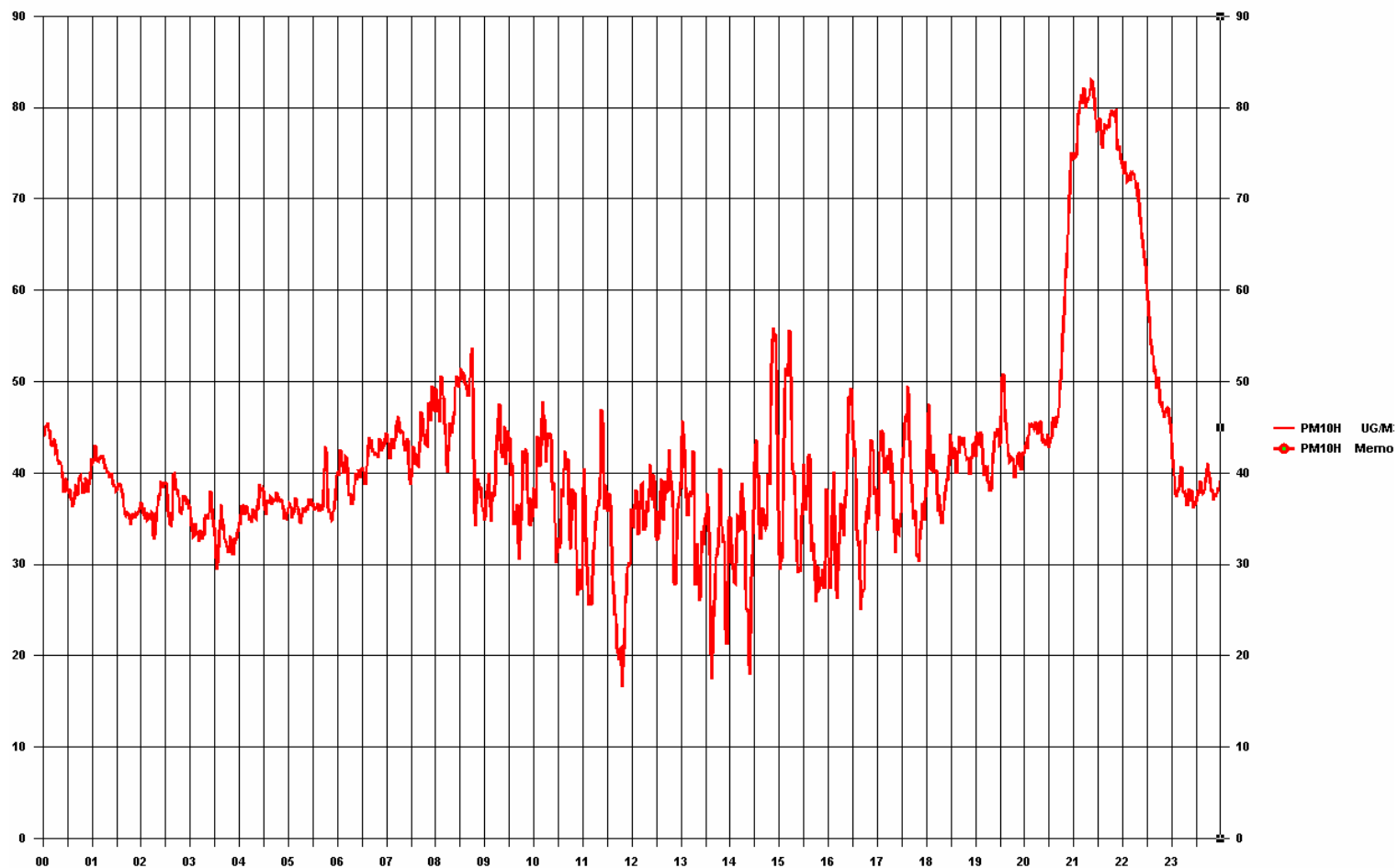
1-minute data for Southwick Continuous PM_{2.5} sampler

Peak value was 86 $\mu\text{g}/\text{m}^3$

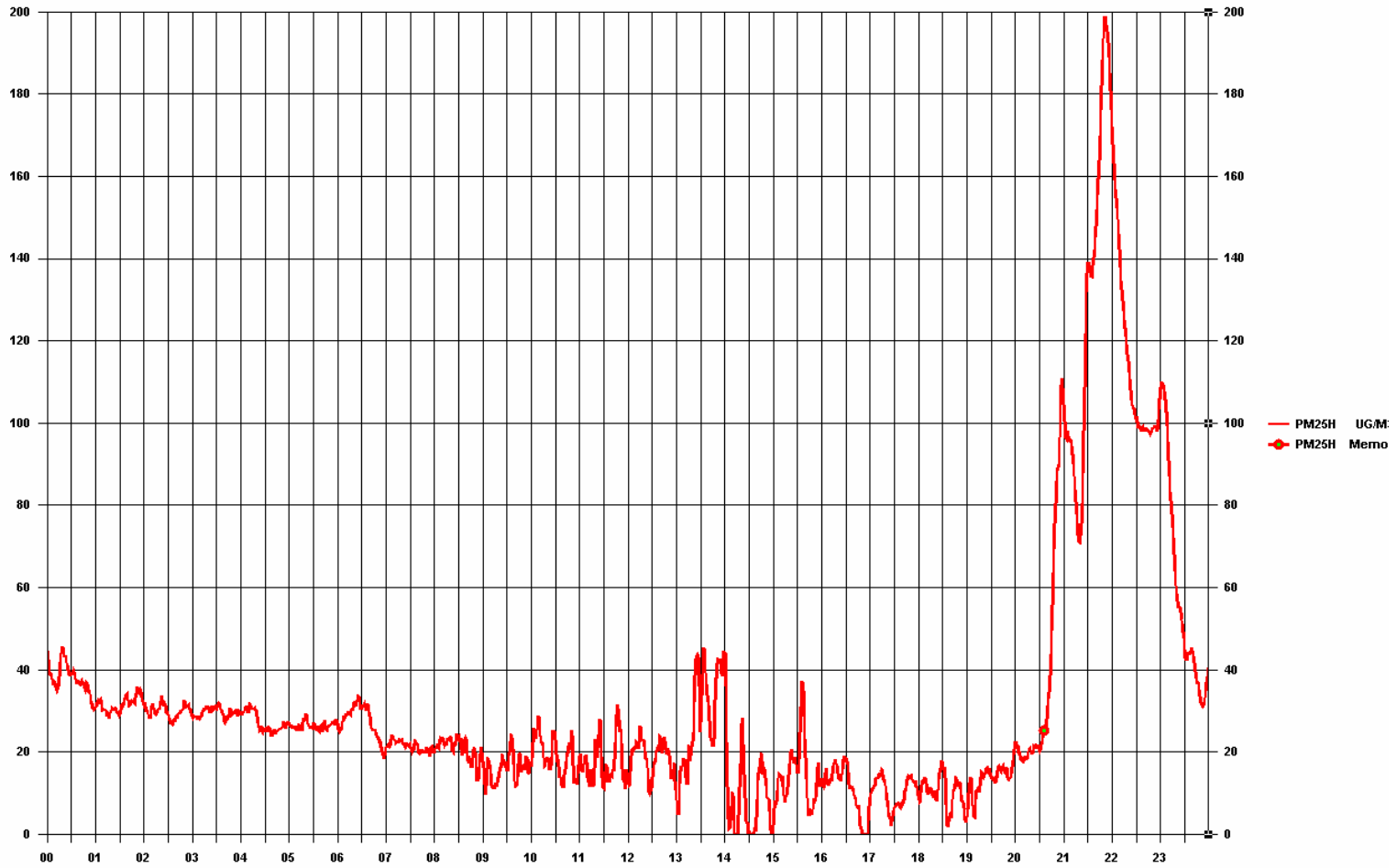
24-hour average was 33.9 $\mu\text{g}/\text{m}^3$

FRM 24-hour average = 31.7 $\mu\text{g}/\text{m}^3$

Historical 1 Minute Strip Chart for Site : WY Wyandotte Park Date : 07/03/06



7/3/06
1-minute data for Wyandotte PM₁₀ sampler
Peak value was 83 $\mu\text{g}/\text{m}^3$
24-hour average was 41.0 $\mu\text{g}/\text{m}^3$
FRM 24-hour average = 32.1 $\mu\text{g}/\text{m}^3$



7/4/06

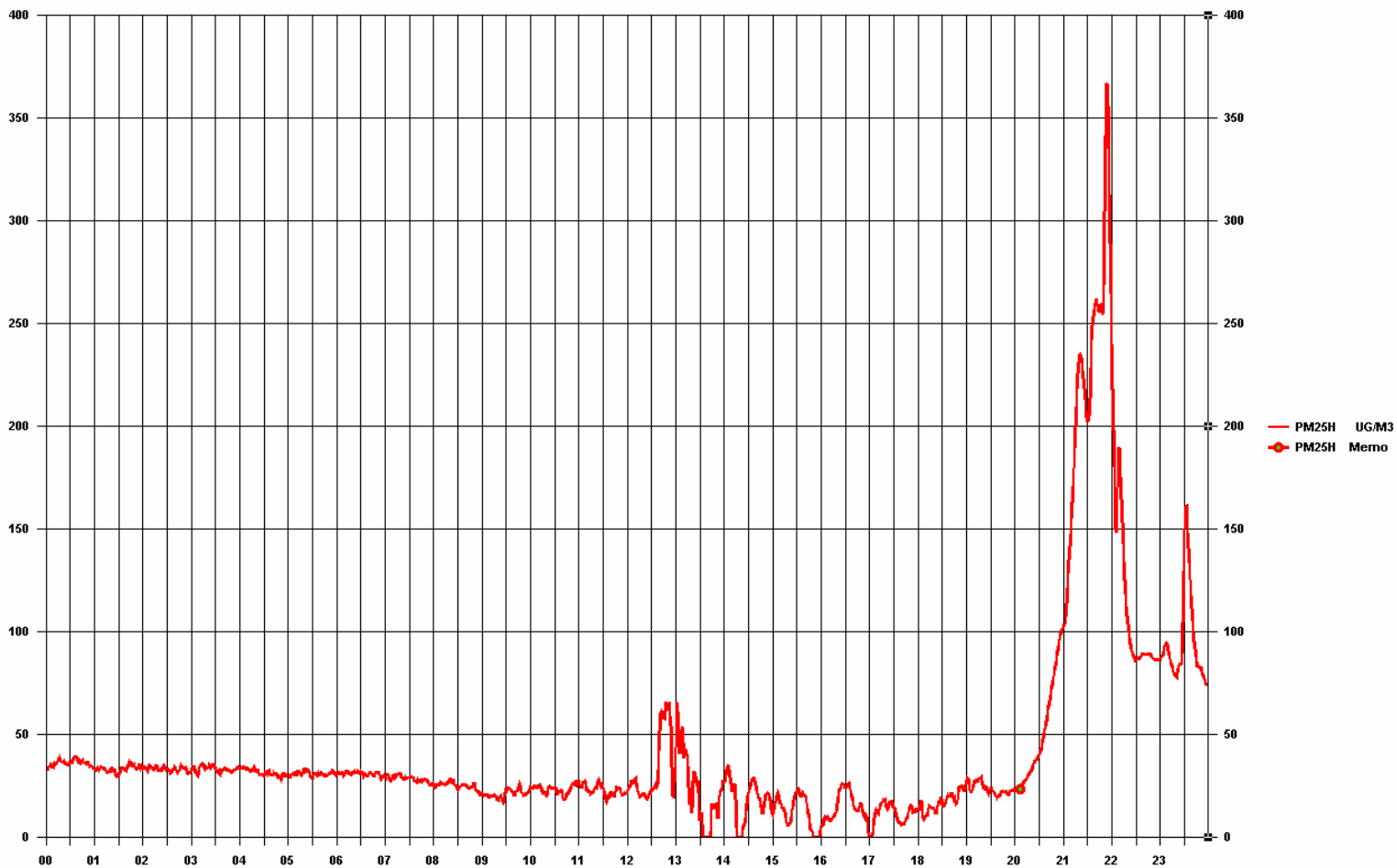
1-minute data for Southwick Continuous PM_{2.5} sampler

Peak value was 199 $\mu\text{g}/\text{m}^3$

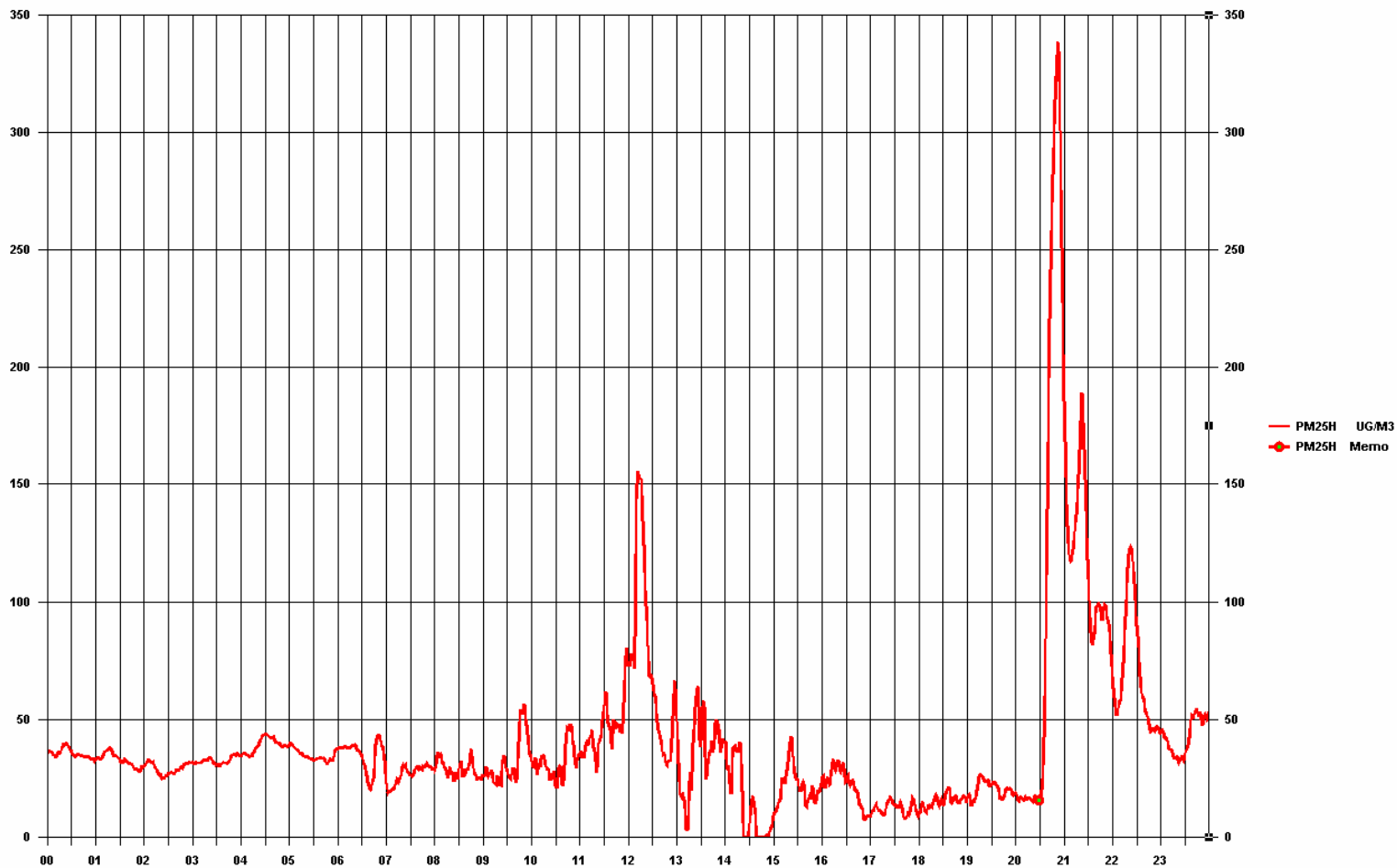
24-hour average was 31.7 $\mu\text{g}/\text{m}^3$

FRM 24-hour average = 29.6 $\mu\text{g}/\text{m}^3$

Historical 1 Minute Strip Chart for Site : BT APCD Office, Barret Ave Date : 07/04/06



7/4/06
1-minute data for Barret Avenue PM_{2.5} sampler
Peak value was 365 $\mu\text{g}/\text{m}^3$
24-hour average was 41.0 $\mu\text{g}/\text{m}^3$
FRM 24-hour average = 35.3 $\mu\text{g}/\text{m}^3$



7/4/06

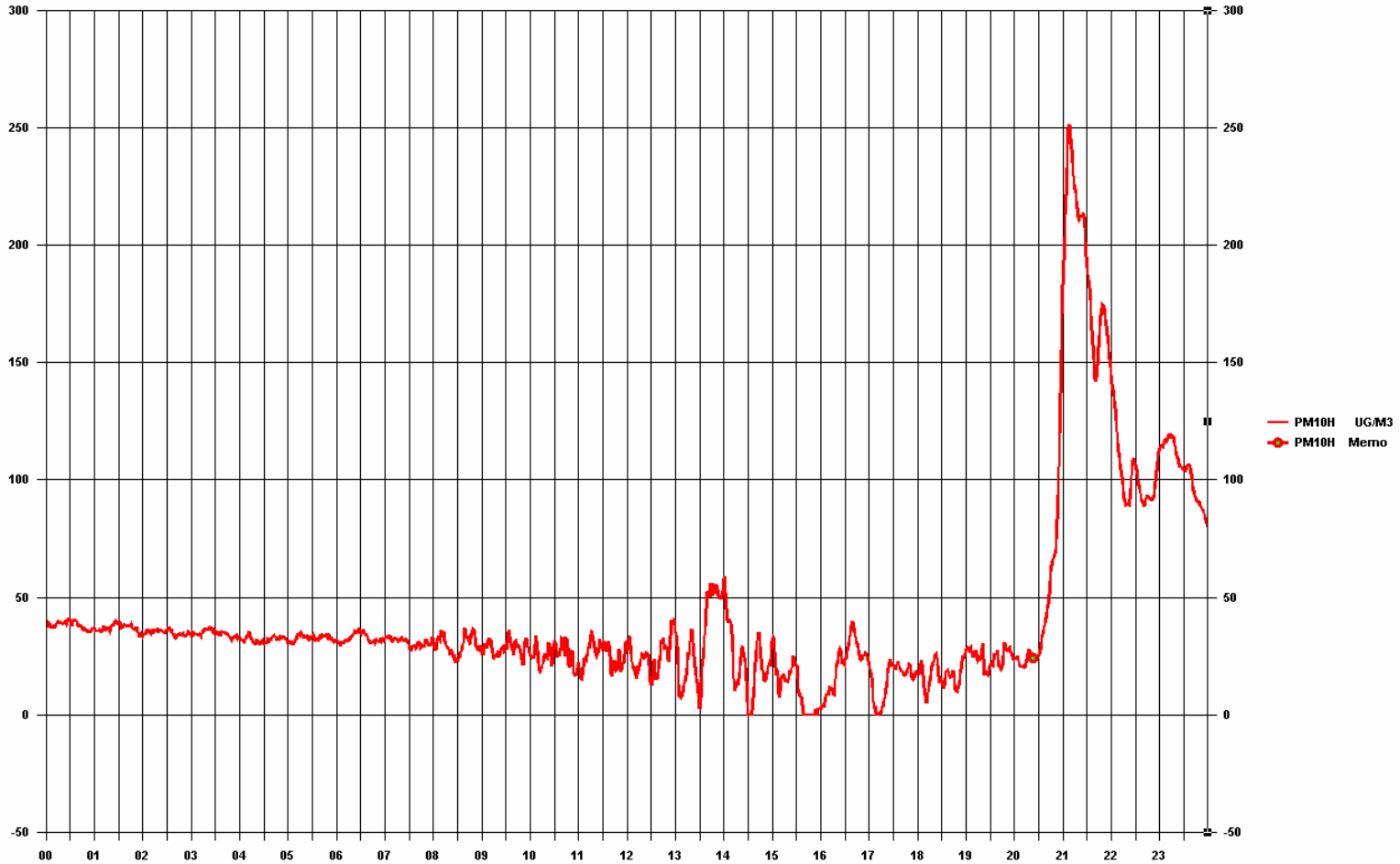
1-minute data for Watson Lane PM_{2.5} sampler

Peak value was 336 $\mu\text{g}/\text{m}^3$

24-hour average was 40.0 $\mu\text{g}/\text{m}^3$

FRM 24-hour average = 32.8 $\mu\text{g}/\text{m}^3$

Historical 1 Minute Strip Chart for Site : WY Wyandotte Park Date : 07/04/06



7/4/06
1-minute data for Wyandotte PM₁₀ sampler
Peak value was 249 $\mu\text{g}/\text{m}^3$
24-hour average was 41.3 $\mu\text{g}/\text{m}^3$
FRM 24-hour average = 31.7 $\mu\text{g}/\text{m}^3$

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM
RAW DATA REPORT

Sep. 19, 2007

(88169) Sulfur PM2.5 LC

SITE ID: 21-111-0043 FOC: 5
COUNTY: (111) Jefferson
CITY: (49000) Louisville
SITE ADDRESS: 37TH & SOUTHERN AVENUE
SITE COMMENTS: NAMS NEIGHBORHOOD SCALE TSP REPLACES SITE 2380-028 G01
MONITOR COMMENTS:

STATE: (21) Kentucky
AQCR: (078) LOUISVILLE
URBANIZED AREA: (4520) LOUISVILLE, KY-IN
LAND USE: RESIDENTIAL
LOCATION SETTING: SUBURBAN

CAS NUMBER: 7704-34-9
LATITUDE: 38.233222
LONGITUDE: -85.825278
UTM ZONE: 16
UTM NORTHING: 4232138.1
UTM EASTING: 602814.25
ELEVATION-MSL: 0
PROBE HEIGHT:

SUPPORT AGENCY: (0549) Jefferson County, KY Air Pollution Control District
MONITOR TYPE: SUPPLEMENTAL SPECIATION
COLLECTION AND ANALYSIS METHOD: (811) Wet One SASS Teflon Energy Dispers
FOAC: (1217) Research Triangle Institute RTP, NC

REPORT FOR: 2006

DURATION: 24 HOURS
UNITS: Micrograms/cubic meter (LC)
MIN DETECTABLE:

MONTH	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1											.4780	.6850
2			.8920			.8460	3.4200	2.2200 5	1.2000	1.1800		
3		.7540		.7090	.5520 5							
4	1.1400								4.3800 5	.8690	.8620	.5980
5						1.4600	3.2800	2.1600				
6												
7												
8												
9												
10		AQ	.8190	1.2600 5	.6920	1.4600	3.2800	2.1600	4.3800 5	.8690		
11	.9810										2.5000	1.0500
12												
13									1.3900	.3890		
14												
15		1.1800		1.5700	1.8100	1.8000	1.4700	1.4700				
16	.6880 5											
17			.3270								1.3100	.3260
18												
19												
20									.6090	1.2200		
21								1.9200				
22		2.2300		1.0100	.9240	2.4400	1.1600					
23	.6700										1.1400	1.2600
24			.8690						.9690	.7360		
25												
26												
27		1.9100				2.3800	1.0300	4.2100				
28				1.2700 5	3.0300							
29	.9220											
30			1.7300									
31												.7750
NO.:	5	4	5	5	5	5	5	5	5	5	5	6
MAX:	1.1400	2.2300	1.7900	1.5700	3.0300	2.4400	3.4200	4.2100	4.3800	1.2200	2.5000	1.2600
MEAN:	.89020	1.36850	.92740	1.16380	1.28160	1.78520	2.07200	2.39600	1.70840	.87880	1.25800	.78233
ANNUAL OBSERVATIONS:	60		ANNUAL MEAN:		1.36542		ANNUAL MAX:		4.3800			

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk ("*") indicates that the region has reviewed the value and does not concur with the qualifier.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM
RAW DATA REPORT

Sep. 19, 2007

(88180) Potassium PM2.5 LC

SITE ID: 21-111-0043 FOC: 5
COUNTY: (111) Jefferson
CITY: (48000) Louisville
SITE ADDRESS: 37th & SOUTHERN AVENUE
SITE COMMENTS: NAMS NEIGHBORHOOD SCALE TSP REPLACES SITE 2380-028 G01
MONITOR COMMENTS:

STATE: (21) Kentucky
AQCR: (078) LOUISVILLE
URBANIZED AREA: (4520) LOUISVILLE, KY-IN
LAND USE: RESIDENTIAL
LOCATION SETTING: SUBURBAN

CAS NUMBER: 7440-09-7
LATITUDE: 38.233222
LONGITUDE: -85.825278
UDM ZONE: 16
UDM NORTHING: 4232138.1
UDM EASTING: 602814.25
ELEVATION-MSL: 0
PROBE HEIGHT:

SUPPORT AGENCY: (0549) Jefferson County, KY Air Pollution Control District
MONITOR TYPE: SUPPLEMENTAL SPECIATION
COLLECTION AND ANALYSIS METHOD: (811) Wet One SASS Teflon Energy Dispers
FOAD: (1217) Research Triangle Institute RTP, NC

REPORT FOR: 2006

DURATION: 24 HOURS
UNITS: Micrograms/cubic meter (LC)
MIN DETECTABLE:

Day	MONTH											
	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
1											.083	.0420
2												
3			.046					.2370 5	.079	.052		
4		.036				.0465	3.7000					
5	.0163			.0793	.0527 5							
6												
7										.1250	.0330	
8								.0588	.1350 5	.070		
9												
10		AQ				.0809	.088					
11	.0486		.1320	.071	.0188							
12												
13									.024	.056	.033	.052
14												
15								.0363				
16		.067				.0644	.0814					
17	.049 5			.0638	.044							
18			.0374								.0432	.0525
19												
20								.0452	.023	.030		
21												
22		.083				.096	.0404					
23	.0750			.0452	.0653							
24			.0473								.145	.039
25												
26								.0712	.0340	.069		
27												
28		.153				.065	.1620					
29	.059			.123	.0932							
30			.0956									
31												.056
NO.:	5	4	5	5	5	5	5	5	5	5	5	6
MAX:	.075	.153	.132	.123	.093	.096	3.700	.2370	.195	.070	.145	.056
MEAN:	.0496	.0848	.0717	.0753	.0548	.0706	.8144	.08970	.0590	.0554	.0858	.0458
ANNUAL OBSERVATIONS:	60		ANNUAL MEAN:	.1291	ANNUAL MAX:	3.700						

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk ("*") indicates that the region has reviewed the value and does not concur with the qualifier.