

INTEROFFICE MEMORANDUM

Date: January 05, 2007
 To: Arthur L. Williams, Director
 From: Arthur Chang, Technical Services Supervisor
 Re: December 2006 FRM PM_{2.5} Monitoring Update Report

This is a report of December 2006 Federal Reference Method PM_{2.5} monthly averages, annual averages, and 3-year annual design values data summaries. (These data are subject to further quality assurance and are not final.)

December 2006

Table 1. PM_{2.5} Monthly Data Summary (µg/m³)

	Daily Maximum	Daily Minimum		Monthly
Site Name	Conc. & Date	Conc. & Date	Run Time	Average
Southwick	23.0 (12/30)	5.4 (12/01)	64.5 %	13.3
Wyandotte	23.7 (12/29)	5.7 (12/01)	96.8 %	12.6
Barret	12.9 (12/19)	5.6 (12/01)	100.0 %	9.6
Watson	24.9 (12/01)	5.9 (12/07)	100.0 %	11.5
Overall				12.3

The 24-hour average standard is 65 µg/m³.

Table 2. PM_{2.5} Design Values and Annual Mean Comparisons

Site Name	Annual Mean (µg/m ³)							Annual Design Values (2000-2002)	Annual Design Values (2001-2003)	Annual Design Values (2002-2004)	Annual Design Values (2003-2005)	Annual Design Values (2004-2006)
	2006	2005	2004	2003	2002	2001	2000					
Southwick/ <i>Firearms Trn¹</i>	15.0	16.7	14.6	15.4	17.2	17.1/ 18.7 ¹	17.3	N/A	N/A	15.9 ²	15.6 ²	15.4 ²
Wyandotte	15.1	16.6	14.1	15.2	17.5	17.7	16.7	17.3 ²	16.8 ²	15.6	15.3	15.2
Barret	14.1	16.8	14.0	15.2	16.3	16.9	16.7	16.6	16.1	15.2	15.3	15.0
Watson	13.8	16.5	12.7	15.1	15.3	16.3	16.8	16.1	15.5	14.4	14.7	14.3

The annual average standard is 15.0 µg/m³.

¹ *Firearms Training* temporarily replaced Southwick Community Center monitoring during 2001, due to renovation. Twelve quarters of contiguous data are unavailable. ² Design value site for Louisville.

Table 3. Louisville Metro FRM PM_{2.5} Monthly Averages Tracking Table for 1999-2006

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Months > 15.0 µg/m ³
Ann Std	15	15	15	15	15	15	15	15	15	15	15	15	
99 M-Avg	14.7	13.8	12.4	12.7	18.1	23.4	26.6	19.5	15.6	17.4	16.1	12.6	7
00 M-Avg	15.8	16.4	13.4	13.6	17.1	17.7	23.5	21.2	13.3	19.7	15.6	17.1	9
01 M-Avg	21.9	13.9	15.2	13.3	17.7	20.5	24.6	27.4	16.1	13.8	15.8	12.4	8
02 M-Avg	13.1	10	12.3	11.4	15.9	22.3	30.4	23.8	21.7	13.2	11.8	15.6	6
03 M-Avg	12.2	16.3	15	14.6	13.1	18.6	21.7	23	17.3	12.5	12	10.6	5
04 M-Avg	11.2	15.5	10.5	11.5	14.3	16.6	17.8	18.3	18	15	11	12	5
05 M-Avg	12	17.1	14.3	12.9	14.9	20.5	19.7	21.1	23.4	16.4	12.7	14.8	6
06 M-Avg	10.6	12.5	12.6	12.5	12.1	18	23.9	23.3	14.2	10.2	14.1	12.3	3