INTEROFFICE MEMORANDUM

Date: March 08, 2007
To: Arthur L. Williams, Director
From: Arthur Chang, Technical Services Supervisor
Re: February 2007 FRM PM2.5 Monitoring Update Report

This is a report of February 2007 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.)

February 2007

Table 1. $PM_{2.5}$ Monthly Data Summary ($\mu g/m^3$)

Site Name	Daily Maximum Conc. & Date	Daily Minimum Conc. & Date	Run Time	Monthly Average
Southwick	23.7 (02/21)	5.2 (02/04)	92.9 %	11.8
Wyandotte	27.4 (02/21)	5.7 (02/04)	96.4 %	11.4
Barret	26.7 (02/21)	6.3 (02/24)	100.0 %	12.6
Watson	18.9 (02/11)	6.1 (02/05)	100.0 %	12.2
Overall				**11.8**

The 24-hour average standard is 65 $\mu g/m^3$.

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

Site Name	Annual Mean (ug/m^3) 2007[3]	2006	2005	2004	2003	2002	2001	Annual Design Values (2001-2003)	Annual Design Values (2002-2004)	Annual Design Values (2003-2005)	Annual Design Values (2004-2006)	Annual Design Values (2005-2007)[3]
Southwick/ *Firearms Trn*[1]	10.6	15.0	16.7	14.6	15.4	17.2	17.1/ *18.7*[1]	N/A	**15.9**[2]	**15.6**[2]	**15.4**[2]	**14.1**[2]
Wyandotte	10.4	15.1	16.6	14.1	15.2	17.5	17.7	**16.8**[2]	15.6	15.3	15.2	14.0
Barret	10.6	14.1	16.8	14.0	15.2	16.3	16.9	16.1	15.2	15.3	15.0	13.8
Watson	11.3	13.8	16.5	12.7	15.1	15.3	16.3	15.5	14.4	14.7	14.3	13.8

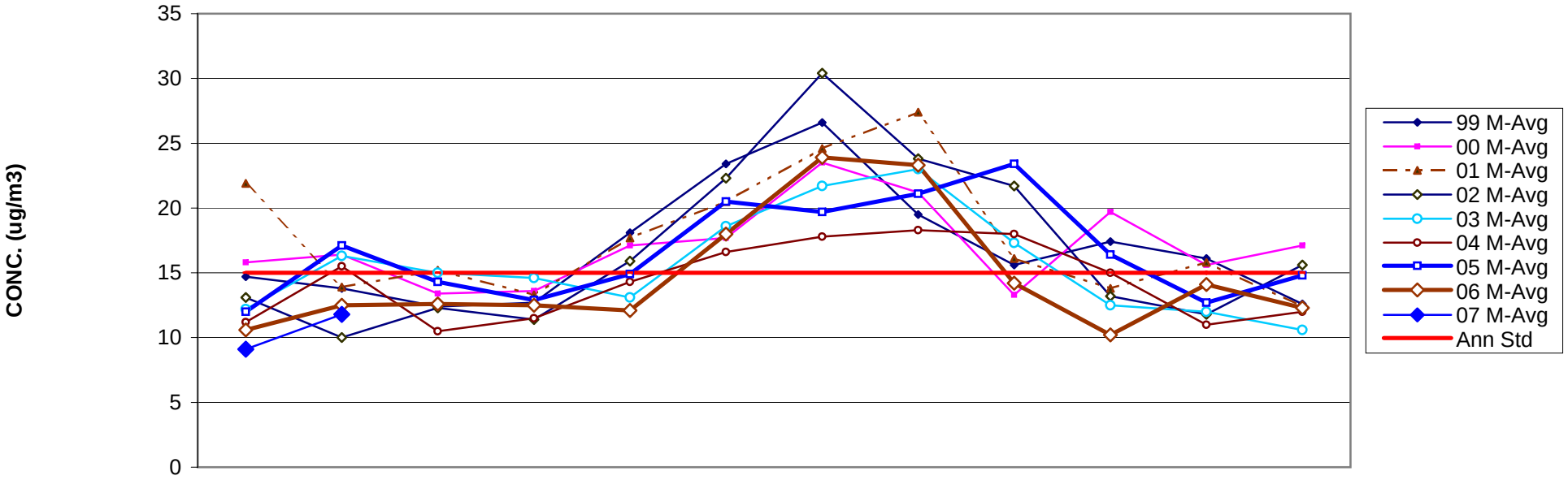
The annual average standard is 15.0 $\mu g/m^3$.

[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. [3] Year-to-date data for 2007.

Table 3. Louisville Metro FRM PM2.5 Monthly Averages Tracking Table for 1999-2007

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Months > 15.0 ug/m3
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**
07 M-Avg	9.1	11.8											**0**

LOUISVILLE METRO FRM PM2.5 MONTHLY AVERAGES TRENDS FOR 1999 - 2007



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
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
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
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
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
03 M-Avg	12.2	16.3	15	14.6	13.1	18.6	21.7	23	17.3	12.5	12	10.6
04 M-Avg	11.2	15.5	10.5	11.5	14.3	16.6	17.8	18.3	18	15	11	12
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
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
07 M-Avg	9.1	11.8										
Ann Std	15	15	15	15	15	15	15	15	15	15	15	15