

Appendix 31

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*** AERMOD - VERSION 07026 ***
*** CFB Boiler- Monitoring Submittal
*** Model Executed on 09/24/07 at 11:55:42 ***
Input File - U:\Secure\06783D\Projects\PERMITS\Model\Lead Dep rogers city 092407_06_LEAD.DTA
Output File - U:\Secure\06783D\Projects\PERMITS\Model\Lead Dep rogers city 092407_06_LEAD.LST
Met File - u:\Secure\06783D\Projects\PERMITS\Model\Met Data\PZQ06.SFC

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Number of sources - 2
Number of source groups - 3
Number of receptors - 915

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*** POINT SOURCE DATA ***

CAP/	EMIS RATE	NUMBER EMISSION RATE	BASE	STACK	STACK	STACK	STACK	STACK	BLDG	URBAN			
HOR	SOURCE	PART.	(GRAMS/SEC)	X	Y	ELEV.	HEIGHT	TEMP.	EXIT	VEL.	DIAMETER	EXISTS	SOURCE
VARY	ID	BY	CATS.	(METERS)	(METERS)	(METERS)	(METERS)	(DEG.K)	(M/SEC)	(METERS)	(METERS)		
NO	CFB3	0	0.42839E-01	281094.0	5030395.0	191.1	137.16	347.04	17.45	5.79	5.79	YES	NO
NO	CFB4	0	0.42839E-01	281103.0	5030395.0	191.1	137.16	347.04	17.45	5.79	5.79	YES	NO

*** SOURCE IDS DEFINING SOURCE GROUPS ***

SOURCE IDS

GROUP ID

ALL CFB3 , CFB4 ,

*** THE SUMMARY OF MAXIMUM ANNUAL (1 YRS) RESULTS ***

** CONC OF LEAD IN MICROGRAMS/M**3 **

GROUP ID	GRID-ID	AVERAGE CONC	RECEPTOR	(XR, YR, ZELEV, ZHILL, ZFLAG)	NETWORK
CFB3	CFB3	0.00062 AT (280100.00,	5031900.00,	200.73,	0.00)
		0.00062 AT (280200.00,	5031900.00,	200.70,	0.00)
		0.00062 AT (280200.00,	5031800.00,	202.67,	0.00)
		0.00062 AT (280100.00,	5032000.00,	199.22,	0.00)
		0.00061 AT (280200.00,	5032000.00,	199.37,	0.00)
		0.00060 AT (280300.00,	5031800.00,	204.33,	0.00)
		0.00060 AT (280200.00,	5031700.00,	204.50,	0.00)
		0.00060 AT (280100.00,	5031800.00,	202.16,	0.00)
		0.00059 AT (280300.00,	5031900.00,	200.80,	0.00)
		0.00059 AT (280000.00,	5032000.00,	199.37,	0.00)
CFB3	1ST HIGHEST VALUE IS	0.00031 AT (280100.00,	5031900.00,	200.73,	0.00)
	2ND HIGHEST VALUE IS	0.00031 AT (280200.00,	5031800.00,	202.67,	0.00)
	3RD HIGHEST VALUE IS	0.00031 AT (280200.00,	5031900.00,	200.70,	0.00)
	4TH HIGHEST VALUE IS	0.00031 AT (280100.00,	5032000.00,	199.22,	0.00)
	5TH HIGHEST VALUE IS	0.00031 AT (280200.00,	5032000.00,	199.37,	0.00)
	6TH HIGHEST VALUE IS	0.00030 AT (280200.00,	5031700.00,	204.50,	0.00)
	7TH HIGHEST VALUE IS	0.00030 AT (280100.00,	5031800.00,	202.16,	0.00)
	8TH HIGHEST VALUE IS	0.00030 AT (280300.00,	5031800.00,	204.33,	0.00)
	9TH HIGHEST VALUE IS	0.00030 AT (280000.00,	5032000.00,	199.37,	0.00)
	10TH HIGHEST VALUE IS	0.00030 AT (280100.00,	5032100.00,	198.12,	0.00)

CFB4													
1ST HIGHEST VALUE IS	0.00031	AT (	280200.00,	5031900.00,	200.70,	200.70,	200.70,	0.00)	DC			
2ND HIGHEST VALUE IS	0.00031	AT (	280100.00,	5031900.00,	200.73,	200.73,	200.73,	0.00)	DC			
3RD HIGHEST VALUE IS	0.00031	AT (	280200.00,	5031800.00,	202.67,	202.67,	202.67,	0.00)	DC			
4TH HIGHEST VALUE IS	0.00031	AT (	280100.00,	5032000.00,	199.22,	199.22,	199.22,	0.00)	DC			
5TH HIGHEST VALUE IS	0.00031	AT (	280200.00,	5032000.00,	199.37,	199.37,	199.37,	0.00)	DC			
6TH HIGHEST VALUE IS	0.00030	AT (	280300.00,	5031800.00,	204.33,	204.33,	204.33,	0.00)	DC			
7TH HIGHEST VALUE IS	0.00030	AT (	280200.00,	5031700.00,	204.50,	204.50,	204.50,	0.00)	DC			
8TH HIGHEST VALUE IS	0.00030	AT (	280100.00,	5031800.00,	202.16,	202.16,	202.16,	0.00)	DC			
9TH HIGHEST VALUE IS	0.00030	AT (	280300.00,	5031900.00,	200.80,	200.80,	200.80,	0.00)	DC			
10TH HIGHEST VALUE IS	0.00029	AT (280100.00,	5032100.00,	198.12,	198.12,	198.12,	0.00)	DC				

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*** AERMOD - VERSION 07026 ***
*** CFB Boiler- Monitoring Submittal
*** Model Executed on 09/24/07 at 11:57:52 ***
Input File - U:\Secure\06783D\Projects\PERMITS\Model\Lead Deposition\Lead Dep 092407_05_LEAD.DTA
Output File - U:\Secure\06783D\Projects\PERMITS\Model\Lead Deposition\Lead Dep 092407_05_LEAD.LST
Met File - u:\Secure\06783D\Projects\PERMITS\Model\Met Data\PZQ05.SFC

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Number of sources - 2
Number of source groups - 3
Number of receptors - 9552

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*** POINT SOURCE DATA ***

CAP/	EMIS RATE	NUMBER EMISSION RATE	BASE	STACK	STACK	STACK	STACK	STACK	BLDG	URBAN		
SOURCE	PART.	(GRAMS/SEC)	X	Y	ELEV.	HEIGHT	TEMP.	EXIT VEL.	DIAMETER	EXISTS	SOURCE	
HOR	SCALAR	CATS.	(METERS)	(METERS)	(METERS)	(METERS)	(DEG.K)	(M/SEC)	(METERS)	(METERS)		
VARY BY	ID											
NO	CFB3	0	0.42839E-01	281094.0	5030395.0	191.1	137.16	347.04	17.45	5.79	YES	NO
NO	CFB4	0	0.42839E-01	281103.0	5030395.0	191.1	137.16	347.04	17.45	5.79	YES	NO

*** SOURCE IDS DEFINING SOURCE GROUPS ***

SOURCE IDS

GROUP ID

ALL CFB3 , CFB4 ,

*** THE SUMMARY OF MAXIMUM ANNUAL (1 YRS) RESULTS ***

** CONC OF LEAD IN MICROGRAMS/M**3 **

GROUP ID	GRID-ID	AVERAGE CONC	RECEPTOR	(XR, YR, ZELEV, ZHILL, ZFLAG)	NETWORK
CFB3					
CFB4					
ALL	1ST HIGHEST VALUE IS	0.00089 AT (	5031700.00,	203.44,	0.00)
	2ND HIGHEST VALUE IS	0.00089 AT (	5031600.00,	205.03,	0.00)
	3RD HIGHEST VALUE IS	0.00088 AT (	5031800.00,	202.00,	0.00)
	4TH HIGHEST VALUE IS	0.00088 AT (	5031800.00,	201.97,	0.00)
	5TH HIGHEST VALUE IS	0.00087 AT (	5031700.00,	203.76,	0.00)
	6TH HIGHEST VALUE IS	0.00087 AT (	5031600.00,	204.20,	0.00)
	7TH HIGHEST VALUE IS	0.00087 AT (	5031500.00,	206.70,	0.00)
	8TH HIGHEST VALUE IS	0.00087 AT (	5032300.00,	176.20,	0.00)
	9TH HIGHEST VALUE IS	0.00086 AT (	5031700.00,	203.10,	0.00)
	10TH HIGHEST VALUE IS	0.00086 AT (	5031500.00,	206.02,	0.00)
CFB3	1ST HIGHEST VALUE IS	0.00045 AT (	5031700.00,	203.44,	0.00)
	2ND HIGHEST VALUE IS	0.00045 AT (	5031600.00,	205.03,	0.00)
	3RD HIGHEST VALUE IS	0.00044 AT (	5031800.00,	202.00,	0.00)
	4TH HIGHEST VALUE IS	0.00044 AT (	5031800.00,	201.97,	0.00)
	5TH HIGHEST VALUE IS	0.00044 AT (	5031600.00,	204.20,	0.00)
	6TH HIGHEST VALUE IS	0.00044 AT (	5031700.00,	203.76,	0.00)
	7TH HIGHEST VALUE IS	0.00044 AT (	5031500.00,	206.70,	0.00)
	8TH HIGHEST VALUE IS	0.00044 AT (	5031500.00,	206.02,	0.00)
	9TH HIGHEST VALUE IS	0.00044 AT (	5031700.00,	203.10,	0.00)
	10TH HIGHEST VALUE IS	0.00043 AT (	5031600.00,	205.60,	0.00)

CFB4	1ST HIGHEST VALUE IS	0.00044 AT (	280000.00,	5031700.00,	203.44,	203.44,	0.00)	DC
	2ND HIGHEST VALUE IS	0.00044 AT (	280100.00,	5031600.00,	205.03,	205.03,	0.00)	DC
	3RD HIGHEST VALUE IS	0.00044 AT (	282200.00,	5032300.00,	176.20,	176.20,	0.00)	DC
	4TH HIGHEST VALUE IS	0.00044 AT (	280000.00,	5031800.00,	201.97,	201.97,	0.00)	DC
	5TH HIGHEST VALUE IS	0.00044 AT (	279900.00,	5031800.00,	202.00,	202.00,	0.00)	DC
	6TH HIGHEST VALUE IS	0.00043 AT (	280100.00,	5031700.00,	203.76,	203.76,	0.00)	DC
	7TH HIGHEST VALUE IS	0.00043 AT (	280200.00,	5031500.00,	206.70,	206.70,	0.00)	DC
	8TH HIGHEST VALUE IS	0.00043 AT (	280000.00,	5031600.00,	204.20,	204.20,	0.00)	DC
	9TH HIGHEST VALUE IS	0.00043 AT (	279900.00,	5031700.00,	203.10,	203.10,	0.00)	DC
	10TH HIGHEST VALUE IS	0.00043 AT (	280100.00,	5031500.00,	206.02,	206.02,	0.00)	DC

*** AERMOD - VERSION 07026 ***
 *** CFB Boiler- Monitoring Submittal
 *** Model Executed on 09/24/07 at 12:21:24 ***
 Input File - U:\Secure\06783D\Projects\PERMITS\Model\Lead Dep 092407_06_LEAD.DTA
 Output File - U:\Secure\06783D\Projects\PERMITS\Model\Lead Dep 092407_06_LEAD.LST
 Met File - u:\Secure\06783D\Projects\PERMITS\Model\Met Data\PZQ06.SFC

Number of sources - 2
 Number of source groups - 3
 Number of receptors - 9552

*** POINT SOURCE DATA ***

CAP/	EMIS RATE	NUMBER EMISSION RATE	BASE	STACK	STACK	STACK	STACK	STACK	BLDG	URBAN	
SOURCE	PART.	(GRAMS/SEC)	ELEV.	HEIGHT	TEMP.	EXIT VEL.	DIAMETER	EXISTS	SOURCE		
HOR	SCALAR		(METERS)	(METERS)	(METERS)	(DEG.K)	(M/SEC)	(METERS)			
VARY BY	ID	CATS.	(METERS)	(METERS)	(METERS)	(DEG.K)	(M/SEC)	(METERS)			
CFB3	0	0.42839E-01	281094.0	5030395.0	191.1	137.16	347.04	17.45	5.79	YES	NO
CFB4	0	0.42839E-01	281103.0	5030395.0	191.1	137.16	347.04	17.45	5.79	YES	NO

*** SOURCE IDS DEFINING SOURCE GROUPS ***

SOURCE IDS

GROUP ID

ALL CFB3 , CFB4 ,

*** THE SUMMARY OF MAXIMUM ANNUAL (1 YRS) RESULTS ***

** CONC OF LEAD IN MICROGRAMS/M**3 **

GROUP ID GRID-ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	NETWORK OF TYPE
CFB3	CFB3		
CFB4	CFB4		
ALL	1ST HIGHEST VALUE IS	176.20,	0.00) DC
	2ND HIGHEST VALUE IS	176.20,	0.00) DC
	3RD HIGHEST VALUE IS	224.47,	0.00) DC
	4TH HIGHEST VALUE IS	176.20,	0.00) DC
	5TH HIGHEST VALUE IS	224.40,	0.00) DC
	6TH HIGHEST VALUE IS	176.20,	0.00) DC
	7TH HIGHEST VALUE IS	176.20,	0.00) DC
	8TH HIGHEST VALUE IS	225.45,	0.00) DC
	9TH HIGHEST VALUE IS	176.20,	0.00) DC
	10TH HIGHEST VALUE IS	224.37,	0.00) DC
CFB3	1ST HIGHEST VALUE IS	176.20,	0.00) DC
	2ND HIGHEST VALUE IS	176.20,	0.00) DC
	3RD HIGHEST VALUE IS	176.20,	0.00) DC
	4TH HIGHEST VALUE IS	224.47,	0.00) DC
	5TH HIGHEST VALUE IS	224.40,	0.00) DC
	6TH HIGHEST VALUE IS	176.20,	0.00) DC
	7TH HIGHEST VALUE IS	176.20,	0.00) DC
	8TH HIGHEST VALUE IS	225.45,	0.00) DC
	9TH HIGHEST VALUE IS	176.20,	0.00) DC
	10TH HIGHEST VALUE IS	176.20,	0.00) DC

CFB4	1ST HIGHEST VALUE IS	0.00043 AT (	282300.00,	5032200.00,	176.20,	0.00)	DC
	2ND HIGHEST VALUE IS	0.00042 AT (	281700.00,	5028200.00,	224.47,	0.00)	DC
	3RD HIGHEST VALUE IS	0.00042 AT (	282400.00,	5032100.00,	176.20,	0.00)	DC
	4TH HIGHEST VALUE IS	0.00042 AT (	282200.00,	5032300.00,	176.20,	0.00)	DC
	5TH HIGHEST VALUE IS	0.00042 AT (	281600.00,	5028200.00,	224.40,	0.00)	DC
	6TH HIGHEST VALUE IS	0.00042 AT (	282400.00,	5032200.00,	176.20,	0.00)	DC
	7TH HIGHEST VALUE IS	0.00041 AT (	282300.00,	5032300.00,	176.20,	0.00)	DC
	8TH HIGHEST VALUE IS	0.00041 AT (	281700.00,	5028100.00,	225.45,	0.00)	DC
	9TH HIGHEST VALUE IS	0.00041 AT (	281600.00,	5028100.00,	224.37,	0.00)	DC
	10TH HIGHEST VALUE IS	0.00041 AT (	282400.00,	5032300.00,	176.20,	0.00)	DC

*** AERMOD - VERSION 07026 ***
 *** CFB Boiler- Monitoring Submittal ***
 *** Model Executed on 09/24/07 at 11:53:26 ***
 Input File - U:\Secure\06783D\Projects\PERMITS\Model\Lead Dep rogers city 092407_05_LEAD.DTA
 Output File - U:\Secure\06783D\Projects\PERMITS\Model\Lead Dep rogers city 092407_05_LEAD.LST
 Met File - u:\Secure\06783D\Projects\PERMITS\Model\Met Data\PZQ05.SFC

Number of sources - 2
 Number of source groups - 3
 Number of receptors - 915

*** POINT SOURCE DATA ***

CAP/	EMIS RATE	NUMBER EMISSION RATE	BASE	STACK	STACK	STACK	STACK	BLDG	URBAN			
SOURCE	PART.	(GRAMS/SEC)	ELEV.	HEIGHT	TEMP.	EXIT VEL.	DIAMETER	EXISTS	SOURCE			
HOR	SCALAR	CATS.	(METERS)	(METERS)	(METERS)	(DEG.K)	(M/SEC)	(METERS)	(METERS)			
VARY BY	ID											
NO	CFB3	0	0.42839E-01	281094.0	5030395.0	191.1	137.16	347.04	17.45	5.79	YES	NO
NO	CFB4	0	0.42839E-01	281103.0	5030395.0	191.1	137.16	347.04	17.45	5.79	YES	NO

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SOURCE IDs

GROUP ID

ALL CFB3 , CFB4 ,

*** THE SUMMARY OF MAXIMUM ANNUAL (1 YRS) RESULTS ***

** CONC OF LEAD IN MICROGRAMS/M**3 **

GROUP ID GRID-ID	GROUP ID	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	NETWORK OF TYPE				
CFB3	CFB3	0.00089 AT (	280000.00,	5031700.00,	203.44,	203.44,	0.00)	DC
		0.00089 AT (	280100.00,	5031600.00,	205.03,	205.03,	0.00)	DC
		0.00088 AT (	279900.00,	5031800.00,	202.00,	202.00,	0.00)	DC
		0.00088 AT (	280000.00,	5031800.00,	201.97,	201.97,	0.00)	DC
		0.00087 AT (	280100.00,	5031700.00,	203.76,	203.76,	0.00)	DC
		0.00087 AT (	280000.00,	5031600.00,	204.20,	204.20,	0.00)	DC
		0.00087 AT (	280200.00,	5031500.00,	206.70,	206.70,	0.00)	DC
		0.00086 AT (	279900.00,	5031700.00,	203.10,	203.10,	0.00)	DC
		0.00086 AT (	280100.00,	5031500.00,	206.02,	206.02,	0.00)	DC
		0.00086 AT (	280200.00,	5031600.00,	205.60,	205.60,	0.00)	DC
ALL	1ST HIGHEST VALUE IS	0.00045 AT (	280000.00,	5031700.00,	203.44,	203.44,	0.00)	DC
	2ND HIGHEST VALUE IS	0.00045 AT (	280100.00,	5031600.00,	205.03,	205.03,	0.00)	DC
	3RD HIGHEST VALUE IS	0.00044 AT (	279900.00,	5031800.00,	202.00,	202.00,	0.00)	DC
	4TH HIGHEST VALUE IS	0.00044 AT (	280000.00,	5031800.00,	201.97,	201.97,	0.00)	DC
	5TH HIGHEST VALUE IS	0.00044 AT (	280000.00,	5031600.00,	204.20,	204.20,	0.00)	DC
	6TH HIGHEST VALUE IS	0.00044 AT (	280100.00,	5031700.00,	203.76,	203.76,	0.00)	DC
	7TH HIGHEST VALUE IS	0.00044 AT (	280200.00,	5031500.00,	206.70,	206.70,	0.00)	DC
	8TH HIGHEST VALUE IS	0.00044 AT (	280100.00,	5031500.00,	206.02,	206.02,	0.00)	DC
	9TH HIGHEST VALUE IS	0.00044 AT (	279900.00,	5031700.00,	203.10,	203.10,	0.00)	DC
	10TH HIGHEST VALUE IS	0.00043 AT (	280200.00,	5031600.00,	205.60,	205.60,	0.00)	DC
CFB3	CFB3	0.00045 AT (	280000.00,	5031700.00,	203.44,	203.44,	0.00)	DC
	2ND HIGHEST VALUE IS	0.00045 AT (	280100.00,	5031600.00,	205.03,	205.03,	0.00)	DC
	3RD HIGHEST VALUE IS	0.00044 AT (	279900.00,	5031800.00,	202.00,	202.00,	0.00)	DC
	4TH HIGHEST VALUE IS	0.00044 AT (	280000.00,	5031800.00,	201.97,	201.97,	0.00)	DC
	5TH HIGHEST VALUE IS	0.00044 AT (	280000.00,	5031600.00,	204.20,	204.20,	0.00)	DC
	6TH HIGHEST VALUE IS	0.00044 AT (	280100.00,	5031700.00,	203.76,	203.76,	0.00)	DC
	7TH HIGHEST VALUE IS	0.00044 AT (	280200.00,	5031500.00,	206.70,	206.70,	0.00)	DC
	8TH HIGHEST VALUE IS	0.00044 AT (	280100.00,	5031500.00,	206.02,	206.02,	0.00)	DC
	9TH HIGHEST VALUE IS	0.00044 AT (	279900.00,	5031700.00,	203.10,	203.10,	0.00)	DC
	10TH HIGHEST VALUE IS	0.00043 AT (	280200.00,	5031600.00,	205.60,	205.60,	0.00)	DC

CFB4	1ST HIGHEST VALUE IS	0.00044	AT (	280000.00,	5031700.00,	203.44,	203.44,	0.00)	DC
	2ND HIGHEST VALUE IS	0.00044	AT (	280100.00,	5031600.00,	205.03,	205.03,	0.00)	DC
	3RD HIGHEST VALUE IS	0.00044	AT (	280000.00,	5031800.00,	201.97,	201.97,	0.00)	DC
	4TH HIGHEST VALUE IS	0.00044	AT (	279900.00,	5031800.00,	202.00,	202.00,	0.00)	DC
	5TH HIGHEST VALUE IS	0.00043	AT (	280100.00,	5031700.00,	203.76,	203.76,	0.00)	DC
	6TH HIGHEST VALUE IS	0.00043	AT (	280200.00,	5031500.00,	206.70,	206.70,	0.00)	DC
	7TH HIGHEST VALUE IS	0.00043	AT (	280000.00,	5031600.00,	204.20,	204.20,	0.00)	DC
	8TH HIGHEST VALUE IS	0.00043	AT (	279900.00,	5031700.00,	203.10,	203.10,	0.00)	DC
	9TH HIGHEST VALUE IS	0.00043	AT (	280100.00,	5031500.00,	206.02,	206.02,	0.00)	DC
	10TH HIGHEST VALUE IS	0.00043	AT (	280200.00,	5031600.00,	205.60,	205.60,	0.00)	DC