

**APPENDIX C PROJECT AREA MONITORING AND  
EMISSION SOURCE DATA**

---

**APPENDIX C PROJECT AREA MONITORING AND EMISSION SOURCE DATA**

---

**Table C-1. Kansas City Area Monitoring Data - CO**

Year	Site			1-Hr Average (ppm)			8-Hr Average (ppm)		
				1 <sup>st</sup> High	2 <sup>nd</sup> High	# of Exceedances	1 <sup>st</sup> High	2 <sup>nd</sup> High	# of Exceedances
2003	UMKC - 5130 Troost	Kansas City	Jackson Co	2.9	2.7	0	1.9	1.8	0
2004	UMKC - 5130 Troost	Kansas City	Jackson Co	3.6	3.4	0	3.1	2.2	0
2005	UMKC - 5130 Troost	Kansas City	Jackson Co	3.9	3.6	0	2.6	2.4	0
2006	UMKC - 5130 Troost	Kansas City	Jackson Co	2.2	2	0	1.5	1	0
2002	4928 Main Street	Kansas City	Jackson Co	11.3	10.2	0	3.3	3.3	0
2003	4928 Main Street	Kansas City	Jackson Co	3.3	3.2	0	2	1.8	0
2002	Broadway	Kansas City	Jackson Co	6.8	3.5	0	2.1	2.1	0
2003	Broadway	Kansas City	Jackson Co	4.5	3.5	0	2.1	1.7	0

**Table C-2. Kansas City Area Monitoring Data – O<sub>3</sub>**

Year	Site			One-Hour Average (ppm)					Eight-Hour Average (ppm)				
				1st Max	2nd Max	3rd Max	4th Max	# Exc.	1st Max	2nd Max	3rd Max	4th Max	3-Year Average 4th High
2002	1802 E 203rd St, Richards Gebaur-South	Belton	Cass Co	0.106	0.098	0.096	0.093	0	0.088	0.083	0.083	0.083	NA
2003	1802 E 203rd St, Richards Gebaur-South	Belton	Cass Co	0.107	0.092	0.091	0.09	0	0.097	0.082	0.082	0.082	NA
2004	1802 E 203rd St, Richards Gebaur-South	Belton	Cass Co	0.096	0.076	0.073	0.07	0	0.08	0.069	0.062	0.061	0.075
2005	1802 E 203rd St, Richards Gebaur-South	Belton	Cass Co	0.108	0.094	0.093	0.093	0	0.091	0.086	0.082	0.081	0.075
2002	Watkins Mill Road		Clay Co	0.104	0.102	0.098	0.094	0	0.091	0.086	0.085	0.083	NA
2003	Watkins Mill Road		Clay Co	0.107	0.106	0.104	0.098	0	0.096	0.087	0.086	0.085	NA
2004	Watkins Mill Road		Clay Co	0.081	0.08	0.079	0.079	0	0.073	0.073	0.068	0.067	0.078
2005	Watkins Mill Road		Clay Co	0.1	0.1	0.099	0.09	0	0.086	0.084	0.079	0.079	0.077
2002	Hwy33 & County Home Road		Clay Co	0.119	0.105	0.105	0.101	0	0.102	0.094	0.089	0.087	NA
2003	Hwy33 & County Home Road		Clay Co	0.115	0.112	0.106	0.098	0	0.099	0.094	0.09	0.088	NA
2004	Hwy33 & County Home Road		Clay Co	0.087	0.086	0.085	0.083	0	0.077	0.071	0.071	0.071	0.082
2005	Hwy33 & County Home Road		Clay Co	0.107	0.105	0.105	0.105	0	0.092	0.091	0.089	0.088	0.082
2002	13131 Hiway 169 NE	Kansas City	Clay Co	0.117	0.111	0.109	0.107	0	0.097	0.094	0.091	0.091	NA
2003	13131 Hiway 169 NE	Kansas City	Clay Co	0.112	0.107	0.101	0.101	0	0.101	0.089	0.089	0.088	NA
2004	13131 Hiway 169 NE	Kansas City	Clay Co	0.092	0.084	0.084	0.084	0	0.072	0.071	0.07	0.069	0.083
2005	13131 Hiway 169 NE	Kansas City	Clay Co	0.113	0.111	0.107	0.098	0	0.097	0.089	0.088	0.087	0.081
2004	Trimble 7536 SW O Highway		Clinton Co	0.097	0.092	0.092	0.088	0	0.079	0.076	0.072	0.071	NA
2005	Trimble 7536 SW O Highway		Clinton Co	0.109	0.103	0.1	0.099	0	0.093	0.088	0.087	0.087	NA
2002	11500 N 71 Hwy	Kansas City	Platte Co	0.112	0.104	0.101	0.098	0	0.092	0.088	0.085	0.085	NA
2003	11500 N 71 Hwy	Kansas City	Platte Co	0.109	0.096	0.094	0.092	0	0.092	0.079	0.079	0.077	NA
2004	11500 N 71 Hwy	Kansas City	Platte Co	0.087	0.086	0.081	0.081	0	0.073	0.073	0.071	0.07	0.077
2005	11500 N 71 Hwy	Kansas City	Platte Co	0.114	0.112	0.109	0.096	0	0.093	0.091	0.087	0.086	0.078

Source: USEPA Air Data (<http://www.epa.gov/air/data>)

**Table C-3. Kansas City Area Monitoring Data – NO<sub>2</sub>**

<b>Year</b>	<b>Monitoring Site</b>		<b>Annual Mean(ppm)</b>
2002		Clay Co	0.008
2003		Clay Co	0.007
2004		Clay Co	0.007
2005		Clay Co	0.007
2006		Clay Co	0.008
2002	Kansas City	Clay Co	0.008
2003	Kansas City	Clay Co	0.008
2004	Kansas City	Clay Co	0.006
2002	Kansas City	Clay Co	0.014
2002	Kansas City	Jackson Co	0.018
2003	Kansas City	Jackson Co	0.022
2004	Kansas City	Jackson Co	0.020
2005	Kansas City	Jackson Co	0.018
2006	Kansas City	Jackson Co	0.020
2002	Kansas City	Platte Co	0.008
2003	Kansas City	Platte Co	0.009
2004	Kansas City	Platte Co	0.010

Source: USEPA Air Data (<http://www.epa.gov/air/data>)

**Table C-4. Kansas City Area Monitoring Data – SO<sub>2</sub>**

Year	Monitoring Site			3-Hour (ppm)		24-Hour (ppm)		Annual (ppm)
				1st Max	2nd Max	1st Max	2nd Max	
2003	724 Troost (Rear)	Kansas City	Jackson Co	0.155	0.155	0.074	0.073	0.008
2004	724 Troost (Rear)	Kansas City	Jackson Co	0.182	0.137	0.101	0.052	0.006
2005	724 Troost (Rear)	Kansas City	Jackson Co	0.154	0.151	0.061	0.059	0.006
2003	11500 N 71 Hwy	Kansas City	Platte Co	0.018	0.015	0.009	0.008	0.002
2004	11500 N 71 Hwy	Kansas City	Platte Co	0.023	0.019	0.008	0.008	0.003
2005	11500 N 71 Hwy	Kansas City	Platte Co	0.021	0.018	0.008	0.007	0.003

Source: USEPA Air Data (<http://www.epa.gov/air/data>)

**Table C-5. Kansas City Area Monitoring Data – PM<sub>10</sub>**

Year	Site		1st Max ( $\mu\text{gm}/\text{m}^3$ )	2nd Max ( $\mu\text{gm}/\text{m}^3$ )	3rd Max ( $\mu\text{gm}/\text{m}^3$ )	4th Max ( $\mu\text{gm}/\text{m}^3$ )	Annual Mean ( $\mu\text{gm}/\text{m}^3$ )	
2003	North Kansas City		Clay Co	42	38	36	35	21
2004	North Kansas City		Clay Co	47	45	41	37	18
2005	North Kansas City		Clay Co	56	51	50	45	22
2003	724 Troost (Rear)	Kansas City	Jackson Co	46	45	45	42	26
2004	724 Troost (Rear)	Kansas City	Jackson Co	44	39	36	36	23
2005	724 Troost (Rear)	Kansas City	Jackson Co	60	56	47	47	26
2006	724 Troost (Rear)	Kansas City	Jackson Co	52	38	27	27	22
2002	27th And Van Brunt	Kansas City	Jackson Co	56	55	44	42	25
2003	27th And Van Brunt	Kansas City	Jackson Co	42	38	38	36	23
2003	27th And Van Brunt	Kansas City	Jackson Co	30	28	28	28	ND
2004	27th And Van Brunt	Kansas City	Jackson Co	40	36	34	33	20
2005	27th And Van Brunt	Kansas City	Jackson Co	49	42	42	40	22
2006	27th And Van Brunt	Kansas City	Jackson Co	40	29	22	21	17
2002	Fire Sta#8 , 1517 Locust St.	Kansas City	Jackson Co	67	66	64	63	36
2003	Fire Sta#8 , 1517 Locust St.	Kansas City	Jackson Co	52	37	33	29	34

Source: USEPA Air Data (<http://www.epa.gov/air/data>)

**Table C-6. Kansas City Area Monitoring Data – PM<sub>2.5</sub>**

Year	Monitoring Site			1st Max	2nd Max	3rd Max	4th Max	98%tile	3-Year Avg.	Annual	3-Year Avg.
									98%tile	Mean	Annual Mean
				( $\mu\text{g}/\text{m}^3$ )	( $\mu\text{g}/\text{m}^3$ )	( $\mu\text{g}/\text{m}^3$ )	( $\mu\text{g}/\text{m}^3$ )	( $\mu\text{g}/\text{m}^3$ )	( $\mu\text{g}/\text{m}^3$ )	( $\mu\text{g}/\text{m}^3$ )	( $\mu\text{g}/\text{m}^3$ )
2002	1802 E 203rd St, Richards Gebaur-South	Belton	Cass Co	31	28	26	25	26	-	11.7	-
2003	1802 E 203rd St, Richards Gebaur-South	Belton	Cass Co	50	36	30	27	30	-	11.1	-
2004	1802 E 203rd St, Richards Gebaur-South	Belton	Cass Co	30	23	23	22	23	26	9.8	10.9
2005	1802 E 203rd St, Richards Gebaur-South	Belton	Cass Co	32	32	31	30	31	28	11.6	10.8
2006	1802 E 203rd St, Richards Gebaur-South	Belton	Cass Co	20	20	17	16	20	Year Incomplete	10.7	Year Incomplete
2002	Hwy33 & County Home Road		Clay Co	38	31	30	30	30	-	12.3	-
2003	Hwy33 & County Home Road		Clay Co	42	34	28	27	28	-	11.7	-
2004	Hwy33 & County Home Road		Clay Co	33	28	27	26	27	28	9.5	11.2
2005	Hwy33 & County Home Road		Clay Co	34	33	31	30	31	29	12.2	11.1
2006	Hwy33 & County Home Road		Clay Co	26	24	17	15	26	Year Incomplete	11	Year Incomplete
2002	North Kansas City	North Kansas City	Clay Co	39	38	36	35	33	-	12.7	-
2003	North Kansas City	North Kansas City	Clay Co	42	35	32	31	32	-	12.8	-
2004	North Kansas City	North Kansas City	Clay Co	39	27	24	19	39	35	15.3	13.6
2003	UMKC - 5130 Troost	Kansas City	Jackson Co	30	22	21	18	30	-	9.7	-
2004	UMKC - 5130 Troost	Kansas City	Jackson Co	34	28	27	25	27	-	11	-
2005	UMKC - 5130 Troost	Kansas City	Jackson Co	34	34	31	27	34	30	12.5	11.1
2006	UMKC - 5130 Troost	Kansas City	Jackson Co	26	21	16	15	26	Year Incomplete	11	Year Incomplete

**Table C-6. Kansas City Area Monitoring Data – PM<sub>2.5</sub>**

Year	Monitoring Site			1st Max	2nd Max	3rd Max	4th Max	98%tile	3-Year Avg.	Annual	3-Year Avg.	
				( $\mu\text{g}/\text{m}^3$ )	( $\mu\text{g}/\text{m}^3$ )	( $\mu\text{g}/\text{m}^3$ )	( $\mu\text{g}/\text{m}^3$ )	( $\mu\text{g}/\text{m}^3$ )	( $\mu\text{g}/\text{m}^3$ )	( $\mu\text{g}/\text{m}^3$ )	( $\mu\text{g}/\text{m}^3$ )	( $\mu\text{g}/\text{m}^3$ )
2003	724 Troost (Rear)	Kansas City	Jackson Co	42	37	36	34	31	-	13.5	-	
2004	724 Troost (Rear)	Kansas City	Jackson Co	37	35	32	31	27	-	12	-	
2005	724 Troost (Rear)	Kansas City	Jackson Co	39	37	36	36	34	31	14.1	13.2	
2006	724 Troost (Rear)	Kansas City	Jackson Co	27	22	22	22	22	Year Incomplete	12.2	Year Incomplete	
2002	4928 Main Street	Kansas City	Jackson Co	32	30	30	30	30	-	13.3	-	
2003	4928 Main Street	Kansas City	Jackson Co	71	34	32	31	34	-	13.8	-	
2002	Sugar Creek	Sugar Creek	Jackson Co	40	39	34	34	32	-	12.4	-	
2003	Sugar Creek	Sugar Creek	Jackson Co	38	30	30	29	30	-	11.9	-	
2004	Sugar Creek	Sugar Creek	Jackson Co	33	26	25	19	33	32	15.3	13.2	
2002	Fire Sta#8 1517 Locust St.	Kansas City	Jackson Co	38	35	34	33	34	-	14	-	

Source: USEPA Air Data (<http://www.epa.gov/air/data>)