

PUBLIC BUILDING COMMISSION OF CHICAGO
MICHAEL REESE HOSPITAL ABATEMENT AND DEMOLITION
AMBIENT AIR QUALITY MONITORING RESULTS
WEEK OF: **December 28, 2009**

Sample Location		Monday December 28			Tuesday December 29			Wednesday December 30			Thursday December 31			Friday January 1		
		Respirable Dust ($\mu\text{g}/\text{m}^3$) ^a	Asbestos (s/cc) ^b	Lead ($\mu\text{g}/\text{m}^3$)	Respirable Dust ($\mu\text{g}/\text{m}^3$)	Asbestos (s/cc)	Lead ($\mu\text{g}/\text{m}^3$)	Respirable Dust ($\mu\text{g}/\text{m}^3$)	Asbestos (s/cc)	Lead ($\mu\text{g}/\text{m}^3$)	Respirable Dust ($\mu\text{g}/\text{m}^3$)	Asbestos (s/cc)	Lead ($\mu\text{g}/\text{m}^3$)	Respirable Dust ($\mu\text{g}/\text{m}^3$)	Asbestos (s/cc)	Lead ($\mu\text{g}/\text{m}^3$)
Perimeter	North	<0.17	<0.005	<0.48	37.8	<0.004	<0.47	28.2	<0.004	<0.47	15.8	<0.004	<0.46	No Samples Taken	No Samples Taken	No Samples Taken
	East	35.3	<0.004	<0.47	184	<0.004	<0.47	83.8	<0.004	<0.61	27.9	<0.004	<0.73			
	South	37.4	<0.004	<0.47	16.9	<0.004	<0.47	45.4	<0.004	<0.49	24.5	<0.004	<0.46			
	West	8.93	<0.004	<0.46	49.4	<0.004	<0.47	33.2	<0.004	<0.47	24	<0.004	<0.46			
Sensitive Receptors	Advocate Health	9.92	<0.004	<0.47	41.3	<0.004	<0.47	31.4	<0.004	<0.46	25.9	<0.004	<0.47			
	Drake Elementary School	11.5	<0.004	<0.47	58.3	<0.004	<0.47	30.3	<0.004	<0.47	19.2	<0.008	<0.82			
	Prairie Shores Apartments	8.44*	<0.004	<0.47	47.5	<0.004	<0.47	37.8	<0.004	<0.46	27.1	<0.004	<0.47			
	Pershing Elementary School	15.7	<0.004	<0.47	38.5	<0.004	<0.47	26.9	<0.004	<0.47	21.7	<0.005	<0.48			

Comments: *Damaged filter

Notes: a – $\mu\text{g}/\text{m}^3$ denotes micrograms per cubic meter; b – s/cc denotes structures per cubic centimeter

Target Levels: Respirable Dust - $150 \mu\text{g}/\text{m}^3$, Asbestos - 0.02 s/cc, Lead $1.5 \mu\text{g}/\text{m}^3$ (when expressed as U.S. EPA standards the respirable dust is a 24-hour average and the lead is a quarterly average measured 24 hours per day)

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 WEEK OF: **December 21, 2009**

Sample Location		Monday December 21			Tuesday December 22			Wednesday December 23			Thursday December 24			Friday December 25		
		Respirable Dust ($\mu\text{g}/\text{m}^3$) ^a	Asbestos (s/cc) ^b	Lead ($\mu\text{g}/\text{m}^3$)	Respirable Dust ($\mu\text{g}/\text{m}^3$)	Asbestos (s/cc)	Lead ($\mu\text{g}/\text{m}^3$)	Respirable Dust ($\mu\text{g}/\text{m}^3$)	Asbestos (s/cc)	Lead ($\mu\text{g}/\text{m}^3$)	Respirable Dust ($\mu\text{g}/\text{m}^3$)	Asbestos (s/cc)	Lead ($\mu\text{g}/\text{m}^3$)	Respirable Dust ($\mu\text{g}/\text{m}^3$)	Asbestos (s/cc)	Lead ($\mu\text{g}/\text{m}^3$)
Perimeter	North	43.9	<0.005	<0.48	32.2	<0.005	<0.48	11.8	<0.005	<0.46	No Sample	<0.005	No Sample	No Samples Taken	No Samples Taken	No Samples Taken
	East	127	<0.004	<0.47	29.6	<0.005	<0.48	19.1	<0.005	<0.46	14.8	<0.005	<0.77			
	South	136	<0.004	<0.46	22.5	<0.005	<0.48	19.5	<0.005	<0.46	23.2	<0.005	<0.77			
	West	33.8	<0.004	<0.46	64.1	<0.005	<0.48	29	<0.005	<0.46	12	<0.004	<0.75			
Sensitive Receptors	Advocate Health	37.2*	<0.004	<0.47	23.4	<0.004	<0.47	13	<0.005	<0.46	13.2	<0.005	<0.8			
	Drake Elementary School	44.8	<0.004	<0.47	33.7	<0.004	<0.47	30.4	<0.005	<0.46	16.2	<0.005	<0.92			
	Prairie Shores Apartments	42.4	<0.004	<0.46	40.5	<0.004	<0.47	No Sample	<0.005	<0.46	13.4	<0.005	<0.8			
	Pershing Elementary School	41.1	<0.004	<0.47	14.7	<0.004	<0.47	14.2	<0.005	<0.46	12.9	<0.005	<0.83			

Comments: *Damaged filter.

Notes: a – $\mu\text{g}/\text{m}^3$ denotes micrograms per cubic meter; b – s/cc denotes structures per cubic centimeter
 Target Levels: Respirable Dust - $150 \mu\text{g}/\text{m}^3$, Asbestos - 0.02 s/cc, Lead $1.5 \mu\text{g}/\text{m}^3$ (when expressed as U.S. EPA standards the respirable dust is a 24-hour average and the lead is a quarterly average measured 24 hours per day)

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 WEEK OF: **December 14, 2009**

Sample Location		Monday December 14			Tuesday December 15			Wednesday December 16			Thursday December 17			Friday December 18		
		Respirable Dust ($\mu\text{g}/\text{m}^3$) ^a	Asbestos (s/cc) ^b	Lead ($\mu\text{g}/\text{m}^3$)	Respirable Dust ($\mu\text{g}/\text{m}^3$)	Asbestos (s/cc)	Lead ($\mu\text{g}/\text{m}^3$)	Respirable Dust ($\mu\text{g}/\text{m}^3$)	Asbestos (s/cc)	Lead ($\mu\text{g}/\text{m}^3$)	Respirable Dust ($\mu\text{g}/\text{m}^3$)	Asbestos (s/cc)	Lead ($\mu\text{g}/\text{m}^3$)	Respirable Dust ($\mu\text{g}/\text{m}^3$)	Asbestos (s/cc)	Lead ($\mu\text{g}/\text{m}^3$)
Perimeter	North	18.8	<0.0043	<0.46	56.9	<0.0043	<0.46	57.1	<0.0043	<0.47	36.5	<0.006	<0.51	40.6	<0.005	<0.48
	East	94	<0.0043	<0.46	360	<0.0043	<0.46	397	0.0043	<0.46	32	<0.005	<0.46	41.1	<0.005	<0.47
	South	24.6	<0.0043	<0.46	289	<0.0043	<0.46	179	<0.0043	<0.46	11.5	<0.005	<0.46	37.5	<0.005	<0.47
	West	18.1	<0.0043	<0.46	58.7	<0.0043	<0.46	46	<0.0043	<0.46	46.4	<0.005	<0.46	39.7	<0.005	<0.48
Sensitive Receptors	Advocate Health	9.94	<0.0044	<0.47	<0.17	<0.0044	<0.47	32.2	<0.0044	<0.47	52.7	<0.005	<0.48	24.6	<0.005	<0.47
	Drake Elementary School	15.5	<0.0044	<0.47	9.91	<0.0044	<0.47	49.9	<0.0044	<0.47	54.2	<0.005	<0.48	32.6	<0.005	<0.47
	Prairie Shores Apartments	13.8	<0.0043	<0.47	<0.17	<0.0044	<0.47	42.4	<0.0043	<0.47	34.2	<0.006	<0.48	26.3	<0.005	<0.47
	Pershing Elementary School	13	<0.0044	<0.47	14.9	<0.0044	<0.47	44.8	<0.0043	<0.47	30.7	<0.005	<0.47	44.1	<0.005	<0.47

Comments: _____

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 WEEK OF: December 7, 2009

Sample Location		Monday December 7			Tuesday December 8			Wednesday December 9			Thursday December 10			Friday December 12		
		Respirable Dust ($\mu\text{g}/\text{m}^3$) ^a	Asbestos (s/cc) ^b	Lead ($\mu\text{g}/\text{m}^3$)	Respirable Dust ($\mu\text{g}/\text{m}^3$)	Asbestos (s/cc)	Lead ($\mu\text{g}/\text{m}^3$)	Respirable Dust ($\mu\text{g}/\text{m}^3$)	Asbestos (s/cc)	Lead ($\mu\text{g}/\text{m}^3$)	Respirable Dust ($\mu\text{g}/\text{m}^3$)	Asbestos (s/cc)	Lead ($\mu\text{g}/\text{m}^3$)	Respirable Dust ($\mu\text{g}/\text{m}^3$)	Asbestos (s/cc)	Lead ($\mu\text{g}/\text{m}^3$)
Perimeter	North	0.985	<0.0043	<0.46	42	<0.0043	<0.46	0.813	<0.0043	<0.46	34	<0.0044	<0.47	20.1	<0.0043	<0.46
	East	68.3	<0.0043	<0.46	38.7	<0.0043	<0.46	4.58	<0.0043	<0.46	76.9	<0.0044	<0.47	49.3	<0.0043	<0.46
	South	432	Data Not Available	<0.46	124	<0.0043	<0.46	86.2	<0.0043	<0.46	81.9	<0.0044	<0.47	55.4	<0.0043	<0.46
	West	35	<0.0043	<0.46	58.5	<0.0043	<0.46	7.54	<0.0043	<0.46	14	<0.0043	<0.46	15.2	<0.0043	<0.46
Sensitive Receptors	Advocate Health	86.7	<0.0044	<0.47	18.9	<0.0044	<0.47	<0.16	<0.0043	<0.46	28.1	<0.0044	<0.47	29.1	<0.0044	<0.47
	Drake Elementary School	52	<0.0043	<0.46	23.7	<0.0044	<0.47	2.63	<0.0043	<0.46	23.5	<0.0044	<0.47	32.3	<0.0044	<0.47
	Prairie Shores Apartments	53.7	<0.0043	<0.47	30*	<0.0044	<0.47	<0.16	<0.0043	<0.46	10.9	<0.0044	<0.47	12	<0.0044	<0.47
	Pershing Elementary School	58.1	<0.0044	<0.47	23.2	<0.0044	<0.47	8.52	<0.0043	<0.46	2.99	<0.0044	<0.47	39.9	<0.0044	<0.47

Comments: *Damaged filter.

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 Target Levels: Respirable Dust - $150 \mu\text{g}/\text{m}^3$, Asbestos - 0.02 s/cc, Lead $1.5 \mu\text{g}/\text{m}^3$ (when expressed as U.S. EPA standards the respirable dust is a 24-hour average and the lead is a quarterly average measured 24 hours per day)