

Location: South Street Elementary School

Address: 376 South Street, Fitchburg, MA

Indoor Air Results

Date: 6/13/2008

Table 1

Location/ Room	Occupants in Room	Temp (°F)	Relative Humidity (%)	Carbon Dioxide (ppm)	Carbon Monoxide (ppm)	PM2.5 (µg/m ³)	Windows Openable	Ventilation		Remarks
								Supply	Exhaust	
background		81	28	391	ND	12				
326	0	76	31	480	ND	6	Y	Y		Plants on univent, FC, TB, cleaner, clutter
327	0	76	31	482	ND	7	Y		Y	FC, Food, microwave, 2 computers., windows open, dust on vent
328	0	76	29	495	ND	7	Y	N	N	DO, WDCT
330	0	76	28	446	ND	7	Y	N		DO, damaged floor tile (9x9"), possible asbestos, WDCT near light fixture, penetrations of pipes through floors
329	0	76	28	526	ND	7	N	N	N	DO
340	0	78	30	729	ND	7	Y	N	N	DO

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Comfort Guidelines

Carbon Dioxide: < 600 ppm = preferred
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Temperature: 70 - 78 °F
 Relative Humidity: 40 - 60%
 Particle matter 2.5 < 35 µg/m³

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Location/ Room	Occupants in Room	Temp (°F)	Relative Humidity (%)	Carbon Dioxide (ppm)	Carbon Monoxide (ppm)	PM2.5 ($\mu\text{g}/\text{m}^3$)	Windows Openable	Ventilation		Remarks
								Supply	Exhaust	
Gym	0	77	29	446	ND	7	N	Y univents above both doors	Y below stage	
Photocopy Room	0	76	24	419	ND	7	Y	N	Y small fan mounted on wall	DO Laminator near entry door Strong plastic odor near entry door Floor tiles in disrepair Water damaged ceiling plaster Efflorescence on ceiling 2 wet toner copiers
1 st floor 3-7	15	77	34	964	ND	10	Y	Y univent		missing CT, univent covered with papers, rusty water in sink
3-6	14	77	31	578	ND	9	Y	Y	Y In closet	DO, univent blocked by books, TB, Occupant reported and it was confirmed that rusty water was coming out of faucet of sink in classroom.

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								Supply	Exhaust	
Girls Rest Room							Y	N	Y Exhaust is in wall behind toilets	DO, bucket located under one sink due to possible leak.
112	7	78	32	544	ND	N/A*	Y	Y		windows open, univent covered with documents, teacher states paper placed on bulletin board exhibited mold. (Paper had been discarded and new paper was covering the bulletin board)
113	0	78	29	432	ND	N/A*	Y	Y		windows open, PF, CD, univent covered, Windex in classroom
114	21	79	31	675	ND	N/A*	Y	Y		DO, PF(2)
115	0	78	29	432	ND	8	Y	Y		DO, WDCT, WD carpet, windows open

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116 Library	0	78	29	485	ND	7	Y	Y	Y	water damage and mold colonization on ceiling of bowed window, ducts exhibit breaches, occupants state they experience a chronic ant problem and that there is a bird's nest near the ceiling.
138 Art Room	18	78	30	628	ND	N/A*	Y	Y		WDCTs, many papers in room, windows open, spray disinfectant, Comet cleanser observed.
473 Cafeteria	0	80	30	447	ND	8	Y	Y	Y	Discolored wall
236	22	79	29	686	ND	9	Y	Y		DO, Windows open, PF, AD, 2 computers, Broken CTs, Ajax cleanser Unit Ventilator Exhaust off
232	15	79	30	648	ND	9	Y	Y		DO, Numerous WDCTs, Windows open, Lysol spray cleaner Unit Ventilator Exhaust off
215	0	79	32	646	ND	6	Y	Y		DO, Missing CT, univent covered

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								Supply	Exhaust	
242	0	78	28	444	ND	7	Y	Y		DO, PF, WDCT, Missing CT PF Unit Ventilator Exhaust off
246	23	79	35	1796	ND	9	Y	Y		TB, DEM, PF, Windows open, excessive paper on all surfaces Unit Ventilator Exhaust off
247	6	79	31	961	ND	12	Y	Y		DO, WDCT, Window open, univent covered Unit Ventilator Exhaust off
248	1	79	30	600	ND	8	Y	Y		TB, PF, FC, AD, 2 Comp., Window open, Cylinder of compressed oxygen on window sill – appeared to belong to an individual for health reasons.
Women's Room									Y Covered with dust	Water damaged ceiling with efflorescence
258	2	80	27	494	ND	7	Y	Y	y	DO, Window open, WDCTs, 1 comp., unlabeled spray bottle Unit Ventilator Exhaust off
257	0	80	26	470	ND	7	Y	Y	y	Plants over univent, windows open, WDCT Unit Ventilator Exhaust off

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								Supply	Exhaust	
256	0	80	27	601	ND	9	Y	Y	y	WDCT, DO, PF, CD, 2 comp. Unit Ventilator Exhaust off
255	0	80	28	690	ND	9	Y	Y	y	DO, missing CT, TB, PF, Multiple WDCTs, AD, Spray cleanser, Chlorox Greenworks Unit Ventilator Exhaust off
26	16	80	28	551	ND	7	Y	Y	y	DO, Ceiling Fan, PF, windows open Unit Ventilator Exhaust off
2-8	14	80	27	491	ND	8	Y	Y		PF, Buckled WDCT, possible asbestos on pipe
4 Nurses' Room	2	78	33	664	ND	19	Y	Y	Y	DO, Exhaust from restroom may go into back closet of nurses room. Sump in back room
2	1	77	35	723	ND	9	Y	N	N	DO, AP, Efflorescence on wall/window area, PF, frayed carpet
025	0	79	33	602	ND	7	Y	Y	N	DEM, univent blocked

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								Supply	Exhaust	
511	0	80	30	572	ND	8	Y	Y	N	DO, window open
024	0	81	29	622	ND	8	Y	Y	N	DO
003	16	80	31	833	ND	9	Y	Y	N	PF, DEM
342	20	78	33	659	ND	10	Y	Y	Y	Ceiling fan Window open cleaners
343	22	79	30	545	ND	9	Y	Y	Y	Window open Tennis balls on chairs Bird's nest in univent Sink running water continuously
344	0	79	27	407	ND	5	Y	Y	Y	Ceiling fan
345	25	79	29	575	ND	9	Y	Y	Y	Ceiling fan Tennis balls on chairs
346	0	79	28	482	ND	6	Y	Y	Y	Exhaust vent obstructed by curtain cleaners

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								Supply	Exhaust	
315	18	78	35	648	ND	8	Y	Y	Y	PF Water damaged ceiling
314	18	79	33	508	ND	N/A*	Y	Y	Y	PF
313	19	79	33	722	ND	N/A*	Y	Y	Y	DEM 4 AT
312	17	79	33	732	ND	N/A*	Y	Y	Y	
311	13	79	33	526	ND	N/A*	Y	Y	Y	AT
108	0	77	34	561	ND	7	Y	Y	Y	
105	1	78	33	661	ND	17	Y	Y	Y	Reported water damaged carpet
107	0	79	34	581	ND	12	y	y	y	Clutter
106	1	78	30	518	ND	6	Y	Y	Y	Soap odor

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								Supply	Exhaust	
Gymnasium south building	15	79	31	580	ND	N/A*	Y	Y	Y	Damage to ceiling
223	0	76	35	599	ND	N/A*	Y	N	N	
215	0	77	35	425	ND	6	Y	Y	Y	Supply off Unit ventilator exhaust off
243	22	78	37	818	ND	N/A*	Y	Y	Y	Supply off Unit ventilator exhaust off
252	0	81	32	712	ND	N/A*	Y	Y	Y	Supply off Unit ventilator exhaust off
244	0	78	33	448	ND	N/A*	Y	Y	Y	Supply off Unit ventilator exhaust off
253	0	80	30	504	ND	N/A*	Y	Y	Y	Supply off Unit ventilator exhaust off
012	0	79	34	678	ND	9	Y	Y	N	Supply off Supply blocked Clutter
010	0	81	33	701	ND	N/A*	Y	Y	N	Supply off

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009	0	80	29	489	ND	9	Y	Y	N	Clutter Pets Pet bedding on carpet
29-30	14	79	35	843	ND	N/A*	Y	Y	N	Supply off
29-31	0	79	32	451	ND	8	Y	Y	N	

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