

Table 11: Concentrations of Actinolite/Tremolite Asbestos Fibers > 5µm Detected During Activities and Simulations Conducted in Containment System and Vermont Attic

Simulation or Day Number	Brief Description of Simulation or Activity Performed	PCM Equivalent (> 5µm) Airborne Asbestos Fibers											
		During Simulation						After Simulation					
		Inside Attic Space				Inside Living Space		Inside Living Space		Inside Change Room			
		Stationary Monitors		Personal Monitors		Stationary Monitors		Stationary Monitors		Stationary Monitors			
		PCM (f/cc)	TEM (s/cc)	PCM (f/cc)	TEM (s/cc)	PCM (f/cc)	TEM (s/cc)	PCM (f/cc)	TEM (s/cc)	PCM (f/cc)	TEM (s/cc)		
Simple Simulations Conducted in Phase 1 Containment System													
1	Dry disturbance of Zonolite Brand Vermiculite; WRMI	overloaded	<0.0070	overloaded	<0.0502	For the Phase 1 simulations, the entire large containment was the "attic" space, and the small containment (6x6 change room) was the "living" space.				overloaded	<0.0014		
		overloaded	<0.0071	overloaded	0.0501								
2	Dry disturbance of Zonolite Vermiculite, Lot# 17K02-1	0.029	0.0531	0.248	0.3981							overloaded	<0.0015
		0.032	0.0227	0.312	0.3006								
3	Dry disturbance of Zonolite Vermiculite, Lot# 6B03-2	0.043	<0.0080	overloaded	0.4968							overloaded	0.0131
		not analyzed	<0.2659	overloaded	0.5492								
4	Dry disturbance of Zonolite Vermiculite, Lot# 2111-2	overloaded	0.1668	0.537	1.4628			0.0200	0.0733				
		0.124	0.0987	0.734	2.6373								
5	Dry disturbance of Zonolite Attic Insulation	0.038	0.0724	0.148	0.1503			overloaded	0.0150				
		0.034	0.0290	0.187	0.3006								
6	Dry disturbance of Strong-Lite; Attic Insulation; Mica Flakes	0.015	<0.0071	0.050	<0.0495			0.007	<0.0016				
		overloaded	overloaded	0.061	<0.0492								
Complex Simulation Conducted in Phase 1 Containment System													
1	Installation of Vermiculite Attic Insulation	0.027	0.0475	0.181	0.0932	For the Phase 1 simulations, the entire large containment was the "attic" space, and the small containment (6x6 change room) was the "living" space.				0.007	0.0105		
		0.026	0.0397	0.147	<0.0461							0.006	0.0078
2	Residential Activities in the Attic	0.037	0.0712	0.268	0.2466							overloaded	overloaded
		0.034	0.0079	0.229	0.2412							overloaded	overloaded
3	Removal of Vermiculite Attic Insulation	0.020	<0.0079	0.131	<0.0494							overloaded	overloaded
		0.018	0.0238	0.115	0.2471							overloaded	overloaded
Simulations Conducted in Phase 2 Modified Containment System													
1	Dry Disturbance - No cutting	0.194	0.0997	1.195	0.2000	0.250	0.0850	0.035	0.1063	0.008	0.0452		
		0.229	0.1842	1.308	2.6476	0.188	0.2422	0.029	0.0080	0.016	0.0267		
2	Dry Disturbance - Hole cut in drywall from attic	0.135	0.1689	0.931	<0.1019	0.185	<0.0174	0.023	<0.0027	0.003	0.0053		
		0.092	0.0844	0.855	<0.1023	0.081	0.0174	0.020	0.0027	0.006	<0.0027		
3	Dry Disturbance - Hole cut in drywall from living space	0.127	0.0278	0.891	0.1994	0.106	<0.0140	0.018	0.0109	0.018	<0.0026		
		0.141	0.0698	1.092	0.1996	0.125	0.1401	0.017	0.0109	0.006	<0.0027		
4	Wet Disturbance - No cutting	0.198	0.1144	0.761	0.7000	0.168	0.0143	0.023	0.0026	0.021	0.0030		
		0.165	0.1568	0.907	1.0003	0.097	0.0285	0.019	0.0027	0.017	0.0081		
5	Wet Disturbance - Hole cut in drywall from attic	0.164	0.2692	1.083	0.4967	0.074	0.0283	0.018	0.0160	0.010	0.0053		
		0.129	0.3657	0.928	0.1986	0.081	0.0711	0.016	0.0160	0.011	<0.0026		
6	Wet Disturbance - Hole cut in drywall from living space	0.150	0.1144	0.386	<0.0993	0.061	0.0286	0.007	<0.0027	0.002	<0.0028		
		0.126	0.0286	0.462	<0.0990	0.057	<0.0142	0.006	<0.0027	0.004	<0.0027		
7	Dry Vermiculite - Removal by Homeowner	0.107	0.2112	0.528	0.4001	0.046	<0.0147	0.021	0.0440	0.009	0.0105		
		0.134	0.3954	0.950	<0.1002	0.046	0.0885	0.022	0.0385	0.007	<0.0026		

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		Stationary Monitors		Personal Monitors		Stationary Monitors		Stationary Monitors		Stationary Monitors	
		PCM (f/cc)	TEM (s/cc)	PCM (f/cc)	TEM (s/cc)	PCM (f/cc)	TEM (s/cc)	PCM (f/cc)	TEM (s/cc)	PCM (f/cc)	TEM (s/cc)
Simulations and Activities Conducted in Attic of Unoccupied House in Bethel, Vermont											
1	Dry Disturbance - <i>No cutting</i>	0.203	0.0985	1.841	0.2017	0.039	0.0408	0.019	<0.0026	For the simulations conducted in the house in Bethel, Vermont, there was not a change room, separate from the living space.	
		0.155	0.0284	1.814	0.4053	0.106	0.0271	0.018	<0.0027		
2	Wet Disturbance - <i>No cutting</i>	0.165	0.0566	0.803	<0.0994	0.036	<0.0135	0.011	<0.0026		
		0.135	0.0142	0.990	<0.1011	0.025	<0.0136	0.011	<0.0026		
3	Dry Disturbance - <i>Hole cut in plaster from attic</i>	0.067	<0.0133	1.472	<0.1004	<0.006	<0.0130	<0.001	<0.0026		
		0.084	0.0133	0.709	0.1013	0.007	<0.0130	<0.001	<0.0026		
4	Blower Door Test ¹ - <i>No Vermiculite Disturbance</i>	<0.006	<0.0142	<0.042	<0.0979	<0.006	<0.0133	<0.001	<0.0026		
		<0.006	<0.0142	<0.043	<0.1007	<0.006	<0.0133	<0.001	<0.0026		
5	Dry Vermiculite - <i>Removal by Homeowner</i>	0.123	0.0427	0.609	0.3013	<0.006	0.0142	0.009	0.0026		
		0.087	0.0852	0.662	<0.1003	<0.006	<0.0142	0.006	0.0026		
6	Dry Vermiculite - <i>Removal by Contractor</i>	0.009	<0.0139	0.293	<0.0992	0.013	<0.0141	<0.001	<0.0025		
		0.008	<0.0138	0.093	<0.0996	<0.006	<0.0142	0.001	<0.0025		

1 Note: For the blower door test, the personal monitors were located in the living space, not the attic.