

Scientific Air Solutions



airPHX Companies
1311-A Dolley Madison Blvd.
McLean, VA 22101

July 15, 2019

Pre and In-treatment Surface Report – [REDACTED] Wrestling Room – Final Report

Pre and In-treatment surface (contact swab) samples results given below.

Sample Date	Number of samples	Location	Average (cfu/cm ²)	Range	Standard Deviation	% Decrease
06/12/19	9	Various	128.8	65.4/210	53.2	-
07/10/19			2.8	1.5/4.3	1.0	97.8
06/12/19	1	Negative Control	0	0/0	-	-
07/10/19			0	0/0	-	-

07-10-19 - In-treatment contact swab results in all the various locations are now < 5 cfu/cm² and considered **clean and acceptable**.

06-12-19 - Pre-treatment contact swab results in all the various locations are appreciably > 10 cfu/cm², which is not acceptable and needs corrective action.

Target Contact Surface Quality

Contact surface quality scale for workplaces, public buildings, schools, and homes are as follows:

- < 5 cfu/cm² is considered **clean and acceptable**.
- 5 to 10 cfu/cm² is considered **marginal**.
- > 10 cfu/cm² is considered **not acceptable** and needs corrective action.

In most cases, surface (swab) sample with < 5 cfu/cm² show a decrease in the overall bioburden and odors.

Please contact me if there are questions or if further information is needed.

Respectfully submitted,

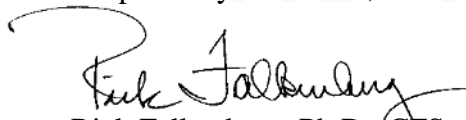

Rick Falkenberg, Ph.D., CFS
Senior Principal Scientist



Table #1

Wrestling Room
07/10/19 In-treatment Swab Sample Results - CFU/cm²

In-treatment 07/10/19 Wrestling Room					
Room	Swab Number	Surface Swab Sample Location	10x10x10 cm	Raw Count	CFU/cm ²
N/A	CTRL	Control swab	0	0	0
Surface	1	Bike handle	10x10x10	150	1.5
Surface	2	Office entry	10x10x10	410	4.1
Surface	3	Mat #1 Center	10x10x10	315	3.2
Surface	4	N wall	10x10x10	275	2.8
Surface	5	Center of room	10x10x10	425	4.3
Surface	6	Door knob Boy's RR	10x10x10	195	2.0
Surface	7	East mat - center	10x10x10	390	3.9
Surface	8	Front Bench Seat	10x10x10	205	2.1
Surface	9	Mat Edge S wall M#1	10x10x10	185	1.9

Avg 2.8 Max 4.3
Min 1.5 SD 1.00

Total Adjusted Raw Count 2,550
Total CFU/cm² 26

Table #1, continued

Wrestling Room
06/12/19 Pre-treatment Swab Sample Results - CFU/cm²

Pre-treatment 06/12/19 Wrestling Room					
Room	Swab Number	Surface Swab Sample Location	10x10x10 cm	Raw Count	CFU/cm ²
N/A	CTRL	Control swab	0	0	0
Surface	1	L bike handle	10x10x10	7,800	78.0
Surface	2	Entry onto mat	10x10x10	19,200	192.0
Surface	3	W. mat	10x10x10	14,950	149.5
Surface	4	Below speaker & wall mat	10x10x10	10,200	102.0
Surface	5	Center of room/mat	10x10x10	18,750	187.5
Surface	6	Door knob Boy's RR	10x10x10	7,625	76.3
Surface	7	East mat	10x10x10	21,000	210.0
Surface	8	Bleacher	10x10x10	9,850	98.5
Surface	9	MC	10x10x10	6,540	65.4

Avg 128.8 Max 210.0
Min 65.4 SD 53.19

Total Adjusted Raw Count 115,915
Total CFU/cm² 1,159