



October 21, 2019

School District of Philadelphia
Office of Environmental Management & Services
440 N. Broad Street
Suite 373
Philadelphia, PA 19130

ATTENTION: Mr. Brian Joseph

REFERENCE: Dust Monitoring
Benjamin Franklin High School – ULCS #2010
550 North Broad Street, Philadelphia, PA
Criterion's Project Number: **192440**

Dear Mr. Joseph,

On October 14, 15, 16, 17 and 18, 2019, Mr. Sam Oseroff of Criterion Laboratories, Inc. (Criterion) conducted particulate dust monitoring in and around various construction areas at Benjamin Franklin High School.

The dust monitoring was conducted using the Met One Aerocet-531S Mass Particle Counter/Dust Monitor. This monitor measures PM 1, PM 2.5, PM 7, PM 10 (respirable dust) and Total Dust. The results for this monitoring are attached to this report.

Current Federal Regulations

Occupational Safety and Health Administration (OSHA) has set a limit of 5 milligrams/cubic meter (mg/m³) for PM 10 (respirable dust) and 15 mg/m³ for Total Dust.

The American Conference of Governmental Industrial Hygienists (ACGIH) has set a threshold limit value (TLV) over an average 8 hour work day over a 40 hour work week of 10 mg/m³ for Total Dust.

The Environmental Protection Agency (EPA) sets a limit of 35 mg/m³ for PM 2.5 over a 24 hour period and 150 mg/m³ for PM 10 over a 24 hour period.

Baseline Levels

On September 21, 2019, baseline levels of various particulates were established while the school was empty of all students, staff and construction personnel. The highest baseline levels recorded outside the work area for PM 10 (respirable dust) and Total Dust plus 50% of this initial highest reading will be used to compare dust levels to the non-construction areas for the remainder of the project.

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If the PM 10 or the Total Dust level of dust is found to be higher than the following baseline levels, corrective action must be taken to prevent continued elevated dust levels.

The baseline level to be used for comparison is 0.277mg for PM 10 and 0.413 mg for Total Dust (TD).

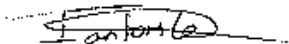
Conclusion

The readings for PM10 and total dust collected on October 14, 2019 at 12.16 pm in the 1st floor Gym Hallway, the 12.30 pm reading in the 6th floor Stairwell B and the 12.34 pm reading in the 5th floor Stairwell B were found to be above the baseline level that had previously been established. At this time, the technician contacted the cleaning crew to mop and clean the hallway and the contractor repaired all loose critical barriers in the construction areas.

The readings for PM10 and total dust collected on October 18, 2019 at 6.37 am in the 1st floor elevator lobby and at 6.41 am in the 1st floor Gym Hallway were found to be above the baseline level that had previously been established. When Mr. Oseroff entered the two areas, he noticed that the negative air machines had been shut down and he immediately turned them on and continued the air sampling. All readings collected after this were found to be below the baseline level and within the OSHA ACGIH, EPA limits.

Should you have any questions or concerns, please feel free to contact me at (215) 244-1300, extension 1033.

Sincerely,



Ian Forster
Project Manger

Attachment

Benjamin Franklin High School (UCLS# 2010)

Date of Sampling

10/14/19

Criterion Project Number

192440

Location	Time	PM 1 (mg)	PM 2.5 (mg)	PM 7 (mg)	PM 10 (mg)	Total Dust (mg)	Comments				
1st floor elevator lobby	8:28	0.000	0.003	0.022	0.029	0.041					
1st floor gym hallway	8:33	0.001	0.005	0.031	0.050	0.078					
1st floor hallway by Room 102	8:36	0.001	0.004	0.010	0.012	0.014					
Stairwell B-6th floor	8:41	0.002	0.006	0.025	0.035	0.048					
Stairwell B- 5th floor	8:46	0.002	0.006	0.039	0.046	0.059					
5th floor elevator lobby	8:53	0.000	0.005	0.032	0.047	0.068					
5th floor hallway at Room 507	8:58	0.001	0.004	0.020	0.032	0.052					
Room 507	9:04	0.000	0.001	0.002	0.002	0.002					
5th floor hallway at Room 517	9:09	0.001	0.003	0.005	0.006	0.008					
Room 517	9:15	0.001	0.002	0.005	0.006	0.008					
Outdoors	9:33	0.002	0.005	0.008	0.009	0.009					
Hallway at Room 406	9:42	0.000	0.002	0.020	0.024	0.027					
1st floor elevator lobby	12:12	0.004	0.036	0.129	0.183	0.241					
1st floor gym hallway	12:16	0.004	0.030	0.152	0.397	0.689	Grinding in adjacent area				
1st floor hallway by Room 102	12:20	0.002	0.015	0.093	0.137	0.183					
Stairwell B-6th floor	12:30	0.000	0.001	0.145	0.189	0.479					
Stairwell B- 5th floor	12:34	0.001	0.013	0.167	0.229	0.477					
5th floor elevator lobby	12:39	0.000	0.005	0.040	0.068	0.105					
5th floor hallway at Room 507	12:43	0.000	0.004	0.018	0.026	0.032					
Room 507	12:46	0.000	0.001	0.002	0.003	0.008					
5th floor hallway at Room 517	12:51	0.000	0.001	0.004	0.007	0.011					
Room 517	12:54	0.000	0.000	0.002	0.003	0.004					
Hallway at Room 406	13:00	0.000	0.003	0.011	0.015	0.017					
1st floor elevator lobby	14:33	0.000	0.003	0.031	0.054	0.092					
1st floor gym hallway	14:39	0.000	0.003	0.019	0.027	0.037					
1st floor hallway by Room 102	14:43	0.000	0.002	0.011	0.210	0.030					
Stairwell B-6th floor	14:50	0.001	0.014	0.100	0.161	0.211					
Stairwell B- 5th floor	14:54	0.001	0.010	0.088	0.121	0.179					
5th floor elevator lobby	15:00	0.000	0.007	0.052	0.100	0.154					
5th floor hallway at 507	15:05	0.000	0.003	0.017	0.023	0.028					
Room 507	15:11	0.000	0.003	0.014	0.016	0.022					
5th floor hallway at Room 517	15:15	0.000	0.001	0.006	0.009	0.010					
Room 517	15:20	0.000	0.002	0.007	0.008	0.012					
Hallway at Room 406	15:27	0.000	0.000	0.003	0.003	0.004					

Benjamin Franklin High School (UCLS# 2010)

Date of Sampling

10/18/19

Criterion Project Number

192440

Location	Time	PM 1 (mg)	PM 2.5 (mg)	PM 7 (mg)	PM 10 (mg)	Total Dust (mg)	Comments				
outdoors	11:06	0.001	0.004	0.007	0.009	0.014					
1st floor elevator lobby	6:37	0.006	0.074	0.550	0.702	0.811	not much work ongoing in area. flaps secure. 2 AFDs turned off. restarted AFDs,				
1st floor gym hallway	6:41	0.002	0.051	0.290	0.368	0.447	2 AFDs turned off. restarted AFDs				
1st floor entrance by Room 102	6:46	0.000	0.001	0.005	0.008	0.012					
Stairwell B-6th floor	6:54	0.000	0.004	0.035	0.052	0.050					
Stairwell B- 5th floor	6:58	0.000	0.003	0.014	0.029	0.072					
5th floor elevator lobby	7:03	0.000	0.012	0.061	0.074	0.090					
5th floor hallway at Room 507	7:07	0.000	0.009	0.017	0.044	0.061					
Room 507	7:11	0.000	0.001	0.007	0.008	0.015					
5th floor hallway at Room 517	7:15	0.000	0.003	0.008	0.012	0.019					
Room 518	7:20	0.000	0.001	0.004	0.007	0.010					
4th floor hallway at Room 406	7:25	0.000	0.004	0.012	0.015	0.018					
1st floor elevator lobby	10:02	0.000	0.000	0.160	0.200	0.029					
1st floor gym hallway	10:06	0.001	0.009	0.086	0.134	0.185					
1st floor entrance by Room 102	10:10	0.000	0.000	0.003	0.005	0.008					
Stairwell B-6th floor	10:18	0.000	0.005	0.071	0.150	0.240					
Stairwell B- 5th floor	10:24:00	0.000	0.007	0.097	0.160	0.223					
5th floor elevator lobby	10:29	0.000	0.001	0.022	0.038	0.060					
5th floor hallway at Room 507	10:34	0.000	0.003	0.024	0.048	0.085					
Room 507	10:38	0.000	0.000	0.001	0.002	0.003					
5th floor hallway at Room 517	10:43	0.000	0.002	0.025	0.034	0.043					
Room 518	10:48	0.000	0.001	0.011	0.013	0.024					
4th floor hallway at Room 406	10:55	0.000	0.003	0.031	0.049	0.087					
1st floor elevator lobby	13:02	0.000	0.003	0.029	0.042	0.059					
1st floor gym hallway	13:08	0.000	0.001	0.026	0.039	0.063					
1st floor entrance by Room 102	13:14	0.000	0.003	0.018	0.028	0.043					
Stairwell B-6th floor	13:22	0.000	0.002	0.016	0.028	0.045					
Stairwell B- 5th floor	13:27	0.000	0.001	0.036	0.047	0.061					
5th floor elevator lobby	13:32	0.001	0.016	0.098	0.129	0.159					
5th floor hallway at Room 507	13:37	0.000	0.004	0.050	0.072	0.096					
Room 507	13:41	0.000	0.002	0.014	0.028	0.054					
5th floor hallway at Room 517	13:47	0.000	0.000	0.005	0.007	0.009					
Room 518	13:51	0.000	0.000	0.005	0.008	0.015					
4th floor hallway at Room 406	14:00	0.000	0.002	0.025	0.040	0.066					