



January 14, 2020

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 January 6, 7, 8, 9 and 10, 2020, Ms. Alyssa Cartagena 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/m<sup>3</sup>) for PM 10 (respirable dust) and 15 mg/m<sup>3</sup> 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/m<sup>3</sup> for Total Dust.

The Environmental Protection Agency (EPA) sets a limit of 35 mg/m<sup>3</sup> for PM 2.5 over a 24 hour period and 150 mg/m<sup>3</sup> 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.

School District of Philadelphia  
Mr. Brian Joseph  
January 14, 2019  
Page 2

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.

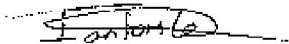
The baseline level to be used for comparison is 0.277mg for PM 10 and 0.413 mg for Total Dust (TD).

**Conclusion**

All readings collected during the week of January 6, 2020, to January 10, 2020 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

6-Jan Criterion Project Number

Location	Time	PM 1 (mg)	PM 2.5 (mg)	PM 7 (mg)	PM 10 (mg)	Total Dust (mg)	Comments
outdoors	8:12	0.002	0.008	0.012	0.015	0.019	
1st floor elevator lobby	8:16	0.002	0.004	0.024	0.035	0.041	
1st floor gym hallway	8:18	0.002	0.005	0.032	0.061	0.084	
1st floor entrance by Room 102	8:19	0.002	0.005	0.029	0.042	0.055	
Stairwell B-6th floor	8:25	0.003	0.007	0.041	0.068	0.083	
Stairwell B- 5th floor	8:27	0.002	0.006	0.069	0.116	0.162	
Basement Hallway at boiler room by elevator	8:36	0.003	0.009	0.064	0.092	0.125	
1st floor elevator lobby	11:23	0.002	0.009	0.046	0.068	0.095	
1st floor gym hallway	11:26	0.002	0.008	0.032	0.047	0.071	
1st floor entrance by Room 102	11:29	0.002	0.009	0.039	0.058	0.076	
Stairwell B-6th floor	11:35	0.003	0.011	0.057	0.074	0.089	
Stairwell B- 5th floor	11:37	0.004	0.013	0.063	0.084	0.097	
Basement Hallway at boiler room by elevator	11:46	0.005	0.018	0.073	0.102	0.158	
1st floor elevator	14:26	0.002	0.005	0.027	0.039	0.052	
1st floor gym hallway	14:29	0.002	0.004	0.044	0.063	0.077	
1st floor entrance by Room 102	14:31	0.002	0.004	0.051	0.06	0.082	
Stairwell B-6th floor	14:38	0.002	0.008	0.022	0.029	0.038	
Stairwell B- 5th floor	14:40	0.002	0.006	0.024	0.033	0.041	
Basement Hallway at boiler room by elevator	14:47	0.002	0.01	0.058	0.073	0.116	

Benjamin Franklin High School (UCLS# 2010)

Date of Sampling

7-Jan Criterion Project Number

192440

Location	Time	PM 1 (mg)	PM 2.5 (mg)	PM 7 (mg)	PM 10 (mg)	Total Dust (mg)	Comments
outdoors	8:12	0.002	0.006	0.015	0.027	0.042	
1st floor elevator lobby	8:17	0.002	0.008	0.042	0.073	0.094	
1st floor gym hallway	8:20	0.003	0.009	0.063	0.094	0.132	
1st floor entrance by Room 102	8:21	0.002	0.007	0.038	0.056	0.088	
Stairwell B-6th floor	8:27	0.002	0.004	0.028	0.045	0.071	
Stairwell B- 5th floor	8:29	0.001	0.005	0.033	0.051	0.078	
Basement Hallway at boiler room by elevator	8:38	0.002	0.007	0.054	0.079	0.106	

Benjamin Franklin High School (UCLS# 2010)

Date of Sampling

8-Jan Criterion Project Number

192440

Location	Time	PM 1 (mg)	PM 2.5 (mg)	PM 7 (mg)	PM 10 (mg)	Total Dust (mg)	Comments
outdoors	8:04	0.002	0.005	0.021	0.027	0.036	windy conditions
1st floor elevator lobby	8:09	0.002	0.008	0.07	0.099	0.121	
1st floor gym hallway	8:12	0.001	0.007	0.087	0.123	0.155	
1st floor entrance by Room 102	8:14	0.002	0.006	0.062	0.084	0.118	
Stairwell B-6th floor	8:22	0.002	0.01	0.084	0.119	0.145	
Stairwell B- 5th floor	8:24	0.002	0.009	0.091	0.12	0.146	
Basement Hallway at boiler room by elevator	8:45	0.003	0.012	0.106	0.144	0.209	
1st floor elevator lobby	11:36	0.002	0.009	0.092	0.134	0.189	
1st floor gym hallway	11:39	0.002	0.006	0.039	0.062	0.086	
1st floor entrance by Room 102	11:41	0.002	0.008	0.056	0.074	0.093	
Stairwell B-6th floor	11:53	0.002	0.009	0.061	0.086	0.113	
Stairwell B- 5th floor	11:55	0.002	0.01	0.054	0.074	0.109	
Basement Hallway at boiler room by elevator	12:03	0.003	0.021	0.197	0.241	0.367	
1st floor elevator	14:26	0.002	0.006	0.04	0.052	0.097	
1st floor gym hallway	14:29	0.002	0.005	0.038	0.046	0.073	
1st floor entrance by Room 102	14:31	0.002	0.005	0.031	0.072	0.086	
Stairwell B-6th floor	14:38	0.002	0.003	0.024	0.051	0.078	
Stairwell B- 5th floor	14:40	0.002	0.004	0.029	0.054	0.041	
Basement Hallway at boiler room by elevator	14:47	0.002	0.011	0.086	0.142	0.187	

Benjamin Franklin High School (UCLS# 2010)

Date of Sampling

9-Jan Criterion Project Number

192440

<b>Location</b>	<b>Time</b>	<b>PM 1 (mg)</b>	<b>PM 2.5 (mg)</b>	<b>PM 7 (mg)</b>	<b>PM 10 (mg)</b>	<b>Total Dust (mg)</b>	<b>Comments</b>
outdoors	8:12	0.0004	0.001	0.006	0.008	0.009	
1st floor elevator lobby	8:44	0.001	0.006	0.08	0.121	0.162	
1st floor gym hallway	8:46	0.003	0.009	0.063	0.094	0.132	
1st floor entrance by 102	8:49	0.001	0.004	0.043	0.06	0.084	
Stairwell B-6th floor	8:27	0.002	0.004	0.028	0.045	0.071	
Stairwell B- 5th floor	8:29	0.001	0.005	0.033	0.051	0.078	
Basement Hallway at boiler room by elevator	8:38	0.003	0.008	0.063	0.082	0.141	

Benjamin Franklin High School (UCLS# 2010)

Date of Sampling

10-Jan Criterion Project Number

Location	Time	PM 1 (mg)	PM 2.5 (mg)	PM 7 (mg)	PM 10 (mg)	Total Dust (mg)	Comments
outdoors	8:42	0.002	0.002	0.015	0.015	0.018	
1st floor elevator lobby	8:46	0.001	0.005	0.029	0.052	0.079	
1st floor gym hallway	8:49	0.001	0.003	0.012	0.016	0.019	
1st floor entrance by Room 102	8:51	0.001	0.004	0.022	0.035	0.049	
Stairwell B-6th floor	8:57	0.003	0.007	0.051	0.074	0.113	
Stairwell B- 5th floor	8:59	0.002	0.005	0.046	0.067	0.096	
Basement Hallway at boiler room by elevator	9:08	0.004	0.023	0.136	0.206	0.345	dry sweeping occuring.
1st floor elevator lobby	11:36	0.002	0.009	0.092	0.134	0.189	
1st floor gym hallway	11:39	0.002	0.006	0.039	0.062	0.086	
1st floor entrance by Room 102	11:41	0.002	0.008	0.056	0.074	0.093	
Stairwell B-6th floor	11:53	0.002	0.009	0.061	0.086	0.113	
Stairwell B- 5th floor	11:55	0.002	0.01	0.054	0.074	0.109	
Basement Hallway at boiler room by elevator	12:03	0.003	0.021	0.197	0.241	0.367	
1st floor elevator	14:12	0.002	0.009	0.081	0.113	0.159	
1st floor gym hallway	14:16	0.002	0.008	0.065	0.093	0.104	
1st floor entrance by Room 102	14:19	0.002	0.009	0.069	0.091	0.106	
Stairwell B-6th floor	14:26	0.002	0.005	0.047	0.075	0.094	
Stairwell B- 5th floor	14:29	0.002	0.004	0.04	0.072	0.086	
Basement Hallway at boiler room by elevator	14:39	0.003	0.01	0.092	0.131	0.152	