



January 21, 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 13, 14, 15, 16 and 17, 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.

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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.

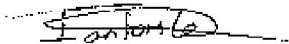
The baseline level to be used for comparison is 0.277mg for PM 10 and 0.413 mg for Total Dust (TD).

**Conclusion**

All readings collected during the week of January 13, 2020, to January 17, 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

13-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	8:40	0.002	0.003	0.016	0.023	0.029	
1st floor elevator lobby	8:12	0.003	0.012	0.056	0.07	0.081	
1st floor gym hallway	8:10	0.003	0.01	0.041	0.05	0.063	
1st floor entrance by 102	8:13	0.003	0.013	0.079	0.103	0.118	
Stairwell B-6th floor	8:21	0.002	0.006	0.032	0.052	0.077	
Stairwell B- 5th floor	8:24	0.002	0.007	0.036	0.064	0.092	
Basement Hallway at boiler room by elevator	8:36	0.004	0.026	0.194	0.276	0.301	
1st floor elevator lobby	11:19	0.002	0.009	0.092	0.134	0.189	
1st floor gym hallway	11:23	0.002	0.006	0.039	0.062	0.086	
1st floor entrance by 102	11:27	0.002	0.008	0.056	0.074	0.093	
Stairwell B-6th floor	11:35	0.002	0.009	0.061	0.086	0.113	
Stairwell B- 5th floor	11:37	0.002	0.01	0.054	0.074	0.109	
Basement Hallway at boiler room by elevator	11:44	0.003	0.021	0.197	0.241	0.322	
1st floor elevator	14:23	0.002	0.009	0.084	0.119	0.132	
1st floor gym hallway	14:28	0.002	0.008	0.073	0.101	0.124	
1st floor entrance by 102	14:31	0.002	0.008	0.078	0.105	0.131	
Stairwell B-6th floor	14:37	0.002	0.006	0.061	0.09	0.119	
Stairwell B- 5th floor	14:39	0.002	0.005	0.056	0.082	0.11	
Basement Hallway at boiler room by elevator	14:45	0.002	0.011	0.135	0.157	0.202	

Benjamin Franklin High School (UCLS# 2010)

Date of Sampling

14-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	9:20	0.007	0.03	0.138	0.155	0.169	
1st floor elevator lobby	9:23	0.007	0.031	0.126	0.147	0.184	
1st floor gym hallway	9:14	0.007	0.03	0.11	0.142	0.17	
1st floor entrance by Room 102	9:16	0.006	0.027	0.108	0.142	0.192	
Stairwell B-6th floor	9:25	0.006	0.022	0.089	0.111	0.132	
Stairwell B- 5th floor	9:27	0.006	0.022	0.086	0.123	154	
Basement Hallway at boiler room by elevator	9:43	0.006	0.025	0.102	0.119	0.135	

Benjamin Franklin High School (UCLS# 2010)

Date of Sampling

15-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	8:05	0.002	0.004	0.013	0.021	0.023	
1st floor elevator lobby	8:09	0.002	0.005	0.025	0.056	0.076	
1st floor gym hallway	8:12	0.002	0.007	0.032	0.051	0.073	
1st floor entrance by Room 102	8:16	0.002	0.006	0.037	0.046	0.068	
Stairwell B-6th floor	8:23	0.002	0.004	0.021	0.043	0.079	
Stairwell B- 5th floor	8:26	0.002	0.005	0.026	0.052	0.087	
Basement Hallway at boiler room by elevator	8:32	0.003	0.014	0.086	0.105	0.129	
1st floor elevator lobby	11:19	0.003	0.007	0.039	0.051	0.072	
1st floor gym hallway	11:24	0.002	0.006	0.024	0.043	0.077	
1st floor entrance by Room 102	11:28	0.002	0.006	0.028	0.05	0.065	
Stairwell B-6th floor	11:35	0.003	0.009	0.072	0.094	0.123	
Stairwell B- 5th floor	11:37	0.002	0.008	0.068	0.091	0.119	
Basement Hallway at boiler room by elevator	11:43	0.003	0.012	0.094	0.121	0.168	
1st floor elevator	14:20	0.002	0.004	0.035	0.062	0.091	
1st floor gym hallway	14:24	0.002	0.005	0.049	0.068	0.084	
1st floor entrance by Room 102	14:27	0.002	0.005	0.042	0.059	0.074	
Stairwell B-6th floor	14:34	0.002	0.003	0.026	0.046	0.069	
Stairwell B- 5th floor	14:37	0.002	0.004	0.031	0.062	0.088	
Basement Hallway at boiler room by elevator	14:43	0.002	0.009	0.073	0.091	0.131	

Benjamin Franklin High School (UCLS# 2010)

Date of Sampling

16-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	8:27	0.004	0.009	0.015	0.019	0.026	
1st floor elevator lobby	8:30	0.005	0.008	0.064	0.091	0.12	
1st floor gym hallway	8:34	0.007	0.007	0.051	0.079	0.094	
1st floor entrance by Room 102	8:41	0.006	0.008	0.076	0.095	0.109	
Stairwell B-6th floor	8:43	0.004	0.005	0.036	0.057	0.076	
Stairwell B- 5th floor	8:45	0.005	0.004	0.029	0.048	0.071	
Basement Hallway at boiler room by elevator	8:52	0.008	0.017	0.108	0.149	0.183	

Benjamin Franklin High School (UCLS# 2010)

Date of Sampling

17-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	8:42	0.002	0.003	0.011	0.026	0.028	
1st floor elevator lobby	8:46	0.003	0.006	0.059	0.082	0.109	
1st floor gym hallway	8:49	0.003	0.005	0.041	0.06	0.084	
1st floor entrance by Room 102	8:53	0.002	0.005	0.048	0.064	0.081	
Stairwell B-6th floor	9:01	0.002	0.007	0.067	0.083	0.118	
Stairwell B- 5th floor	9:03	0.002	0.006	0.061	0.085	0.124	
Basement Hallway at boiler room by elevator	9:10	0.003	0.024	0.136	0.179	0.213	
1st floor elevator lobby	11:32	0.002	0.005	0.04	0.053	0.079	
1st floor gym hallway	11:35	0.002	0.005	0.048	0.061	0.084	
1st floor entrance by Room 102	11:39	0.003	0.006	0.069	0.086	0.106	
Stairwell B-6th floor	11:46	0.002	0.004	0.037	0.062	0.091	
Stairwell B- 5th floor	11:49	0.002	0.005	0.062	0.088	0.111	
Basement Hallway at boiler room by elevator	11:55	0.004	0.013	0.084	0.092	0.13	
1st floor elevator	14:29	0.002	0.003	0.021	0.035	0.055	
1st floor gym hallway	14:32	0.003	0.006	0.059	0.075	0.094	
1st floor entrance by Room 102	14:35	0.002	0.004	0.037	0.051	0.063	
Stairwell B-6th floor	14:42	0.002	0.003	0.027	0.045	0.071	
Stairwell B- 5th floor	14:44	0.002	0.003	0.031	0.042	0.074	
Basement Hallway at boiler room by elevator	14:51	0.003	0.008	0.071	0.094	0.106	