



Environmental Consultants and Engineers

1818 New York Avenue Suite 217
Washington, DC 20002

www.globalincusa.net

February 1, 2025

Prince Georges County
Environmental Safety Office
13306 Old Marlboro Pike
Upper Marlboro, MD 20772

Attention: Mr. Alex Baylor

RE: Post-fire Remediation Indoor Air Quality Screening Report - Barnaby Manor Elementary School (2411 Owens Rd, Oxon Hill, MD 20745)

Global Project Number: 25-001

Dear Mr. Baylor,

On January 13th and 21st, 2025, Global Inc.'s (GLOBAL) Certified Industrial Hygienist Channa Bambaradeniya conducted a post-fire cleanup Indoor Air Quality (IAQ) inspection in Classrooms 109, 110, 111, 113, 114, and 115, at the Barnaby Manor Elementary School (2411 Owens Rd, Oxon Hill, MD 20745).

Methodology

The IAQ evaluation included a thorough visual assessment, and real-time measurements of selected indoor air quality parameters mentioned below:

IAQ Parameter	Instrument
Formaldehyde (CH ₂ O)	Extech VFM200 Meter
Total Volatile Organic Compounds (TVOC)	MiniRAE 3000 Photo Ionization Detector
Carbon Monoxide (CO) / Carbon Dioxide (CO ₂)	FLUKE 975 IAQ Meter
Respirable Particulates (PM _{2.5} / PM ₁₀)	TempTop M2000C IAQ Meter

Note: The instruments were calibrated prior to the measurements

The measurements were compared against applicable industry standards.



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Observations

All six classrooms were thoroughly cleaned and sanitized. There were no odors related to fire damage. Commercial air scrubbers with MERV 16 filters were in operation in each classroom.

IAQ Parameter Measurements

The real-time measurements of IAQ Parameters, including applicable industry standards are summarized below in Tables 1 & 2 below.

Table 1: IAQ Parameter Measurements for Classrooms 109, 111, 113 and 115 (January 13, 2025)

IAQ Parameter	CH ₂ O (ppm)	TVOC (ppm)	CO (ppm)	C ₀₂ (ppm)	PM _{2.5} (ug/m ³)	PM _{10.0} (ug/m ³)
Industry Standard	OSHA PEL 0.75	LEED 0.25	NAAQS <9	ASHRAE (700 + 576)	NAAQS 12	NAAQS 150
Location						
Ambient	0	0	0	576	6.4	9.8
Room 109	0	0.10	0	574	6.9	9.9
Room 111	0	0	0	594	3.8	4.9
Room 113	0	0	0	551	5.0	7.1
Room 115	0	0	0	556	5.0	7.5



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Table 2: IAQ Parameter Measurements for Classrooms 110 and 114 (January 21, 2025)

IAQ Parameter	CH2O (ppm)	TVOC (ppm)	CO (ppm)	C02 (ppm)	PM2.5 (ug/m3)	PM10.0 (ug/m3)
Industry Standard	OSHA PEL 0.75	LEED 0.25	NAAQS <9	ASHRAE (700 + 612)	NAAQS 12	NAAQS 150
Location						
Ambient	0	0	0	612	4.0	5.2
Room 110	0	0	0	588	1.3	1.6
Room 114	0	0	0	661	1.8	2.6

Conclusions

The real-time measurements of Formaldehyde, total volatile organic compounds, carbon monoxide, carbon dioxide and respirable particulate matter (2.5 um and 10 um size classes) in all six Classrooms inspected were below the applicable industry standards. Based on the post-fire cleanup visual observations and real-time measurements of selected IAQ parameters, Classrooms 109, 110, 111, 113, 114 and 115 are safe for re-occupancy.

It has been our pleasure to provide IAQ inspection services for the Prince Georges County Public School system. If you have any questions, please feel free to contact us.

Regards,

Channa Bambaradeniya, Ph.D., CIH, CSP, CHMM
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