



The Louis Berger Group, Inc.

199 Water Street, 23rd Floor, New York, NY 10038

Tel: (212) 612-7900 Fax: (212) 363-4341

**Room 205 Emergency Air Quality Screening Results Range
March 11, 2010**

Location Date and Time	Carbon Monoxide (CO)	Carbon Dioxide (CO2)	Temperature	Relative Humidity	Volatile Organic Compounds (VOCs)	Hydrogen Sulfide (H2S)	Lower Explosive Limit (LEL)	Nitric Oxide (NO)	Nitrogen Dioxide (NO2)	Sulfur Dioxide (SO2)	Total Dust	Within Acceptable Standards	Comments
Room 205 3/11/10 7:30 AM to 9:30 AM	ND ppm	480 to 1820 ppm 1419 ppm (average)	68 to 74°F 72°F	22 to 28% 25% (average)	ND ppm	ND ppm	ND ppm	0.1 to 0.2 ppm 0.2 ppm (average)	ND ppm	ND to 0.1 ppm 0.0 ppm (average)	0.012 to 0.032 mg/m ³ 0.019 mg/m ³ (average)	Yes; with the exception of Co2 (please see below)	Emergency Complaint Room; Student experienced symptoms of headaches

*Room 205: A review of the CO2 data indicated that the levels were above the standard. As per ASHRAE 62.1 2001, which presents the most recent numerical based standard for CO2 (outside air) + 700, carbon dioxide levels of 1,000 to 1,200 ppm should be considered as normal, depending on a variety of transportation system, industrial, time and population variables. Peak CO2 levels measured in Room 205 (e.g., approximately 1,820 ppm on this day) were above this range, and were transient in nature (e.g., present only as long as class was in session; approximately one hour). Lastly, these transient levels were also well below the allowable eight (8) hour time weighted average (TWA) level of 5,000 ppm as cited by OSHA and ACGIH and therefore should not be a cause for concern.

In addition, Berger was informed that the fan for the HVAC unit in the room was operating properly during the screening period. School Facilities staff will be further examining the HVAC intake set up to make sure that the equipment is operating under optimal conditions.



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Where excessive CO₂ levels are identified within the School, Berger is actively working with School Facilities staff to provide the proper volume of outside air utilizing either ASHRAE 62.1 2007 and/or assist with the installation of additional carbon dioxide sensors within classroom unit ventilators as needed.

