



MATRIX

Health & Safety Consultants, L.L.C.

June 30, 2015

Wake County Public School System
Department of Environmental Health & Safety
1551 Rock Quarry Road
Raleigh, North Carolina 27610

Attention: Mr. Stephen McLoughlin, CIH
Director, Environmental & Grounds

Subject: Limited Air Quality Testing
East Cary Middle School – Building 100
Matrix Project Number: 150701

Dear Mr. McLoughlin:

Matrix Health & Safety Consultants, L.L.C. (Matrix) was present at the referenced project site on June 30, 2015 to provide an assessment of the ambient air in selected areas of the referenced project site. Mr. Britt Wester, Certified Industrial Hygienist with Matrix, conducted the survey accompanied by Mr. Steve McLoughlin of Wake County Schools. The purpose of the assessment was to determine the presence of carbon monoxide, oxygen, hydrogen sulfide, methane, and total volatile organic compounds (VOCs) in response to recent concerns expressed by staff members. Matrix used a MiniRae 3000 photoionization detector and a Q-Rae Four Gas meter to perform the sampling.

The main areas of focus for the investigation and air testing were Rooms 115, 113, 111, and associated restrooms and hallways. Sampling was also conducted in the Boiler Room for Building 100, Mechanical Room 120, and outside the building for comparative purposes.

In all areas tested, the readings were as follows:

<u>Constituent Tested</u>	<u>Result</u>	<u>Permissible Exposure Limits</u>
Carbon Monoxide	0.0 ppm	50 ppm
Oxygen	20.9%	19.5% - 23.5%
Hydrogen Sulfide	0.0 ppm	10 ppm
Methane (natural gas)	0.0 ppm	none established
Total VOCs	0.0 ppm	varies with compound

Based on observations and testing data, it is our opinion that an air quality issue was not detectable at the time of our survey. It should be noted that the gas-powered boiler system in Building 100 was not operational at the time of our survey, and according to school officials, repairs will be completed and the system re-tested before this unit is put into service.

An effort was made to provide as complete and comprehensive an evaluation as professionally practical. Observations, findings, results, and conclusions are limited to those conditions apparent at the time. It should not be construed that actions taken as a result of this work will achieve complete compliance with every regulatory standard nor prevent every possible accident or loss. Neither should it be considered that any recommendations noted are the only possible actions to be taken. Owners should assess and analyze each recommendation in relation to resources and objectives.

Matrix appreciates the opportunity to have provided these services. If there are any questions concerning this report or results, please feel free to contact us.

Sincerely,

MATRIX HEATH & SAFETY CONSULTANTS, L.L.C.

A handwritten signature in blue ink, appearing to read "C. Britt Wester".

C. Britt Wester, CIH
Principal