

Mr. Jeffery Fritz, Superintendent  
Dr. Timothy Rayle, Assistant Superintendent for Curriculum & Instruction  
Mr. Michael Howard II, Director of Extended Services  
Mrs. Kathy Knust, Curriculum and Grants Coordinator  
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October 24, 2017

Rick Plew  
Indoor Air Program  
Environmental Public Health Division  
2 North Meridian Street  
Indianapolis, Indiana 46204

## **RE: Clay Community School's response to the IAQ Evaluation by ISDH**

Dear Mr. Plew:

The purpose of this letter is to serve as the response from Clay Community Schools (CCS) in accordance with the requirements for resolving the issues identified in your recent air quality evaluation requested by myself of East Side Elementary School located in Brazil, Indiana on October 10, 2017.

1) **410 IAC 33-4-2 (b):** states “carbon dioxide concentrations in the breathing zone shall never exceed 700 ppm over the outdoor concentration”. Classrooms A-108, A-118, A- 119, and A-120 exceeded the carbon dioxide concentration limit of 1167 ppm. Please ensure there is a sufficient amount of outdoor air being supplied into the classrooms.

### **CCS Response:**

Dampers were set to 5% due to the recent high humidity and abnormally high temperatures, causing humidity levels to be high inside. They have been adjusted to 10% to 20% as of Monday, October 24, 2017. Readings from our instrumentation of the rooms showed the CO<sub>2</sub> levels were in a range of 810 to 1,210 ppm the next morning, compared to an outside level of 761 ppm.

2) **410 IAC 33-4-4 Sec. 4 (b)** states: “where provided air-conditioning systems shall be capable of providing and shall be operated to maintain a temperature not to exceed seventy-eight (78) degrees Fahrenheit and sixty-five percent (65%) relative humidity during periods of student’s occupancy”. As shown in Table 1, relative humidity in the classrooms exceeded the allowed limit. Humidity at the levels measured can promote mold growth. The outdoor relative humidity was 87% and likely impacted the humidity levels inside the classrooms. We urge the school to take the necessary steps in lowering the humidity levels when they exceed 65%. Please ensure the HVAC system is operating within its specifications.

**CCS Response:**

Maintenance staff investigated HVAC system, they were all operating within normal parameters. Humidity levels have decreased with recent weather cooling and humidity levels becoming lower. Humidity levels on Monday, October 24, 2017 were in a range of 47 – 58%. Dehumidifiers can be made available if the humidity levels increase beyond 65% when students are present.

If you have any questions or would like to have further discussion on any of the remedies implemented please do not hesitate to contact me at your convenience.

Sincerely,

Michael R. Howard II  
Director of Extended Services  
Clay Community Schools