

J.C. Broderick & Associates, Inc.

Environmental/Construction Consulting & Testing



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March 19, 2019

Mr. Greg Hamilton
Syosset Central School District
99 Pell Lane
Syosset, New York 11791

**Re: Summary of Indoor Air Quality Sampling and Monitoring
Syosset High School
Sampling/Inspection Dates: February 13 and 22, 2019
Monitoring Dates: February 12 - March 1, 2019**

JCB#: 19-42555

Dear Mr. Hamilton:

J.C. Broderick & Associates, Inc. (JCB) was retained to perform indoor air quality sampling and monitoring within the above referenced school building. The sampling was requested due to indoor air quality concerns within the spaces.

The sampling and monitoring revealed the following significant findings:

- The visual inspection of the subject spaces revealed isolated areas of moisture stained ceiling tiles, however no visible mold growth was observed. In addition to the typical approved contents of school spaces, many areas were observed to contain household cleaners, scented products, and other similar items.
- The moisture in building materials sampling did not identify any thermal anomalies which were indicative of elevated moisture. The moisture meter confirmed that the sampled materials contained acceptable levels of moisture.
- Airborne mold results for each of the sampled spaces did not reveal concentrations typically indicative of chronic indoor mold amplification.
- Temperature and Relative Humidity grab sampling and monitoring did, at times, reveal levels which were outside of the recommended ranges.
- Airborne particulate grab sampling and monitoring reveal all data points to be below the OSHA PELs and ACGIH TLVs.
- Carbon Dioxide monitoring did not reveal any concentrations which exceeded the OSHA PEL. However, concentrations were observed, at times, which exceeded the ASHRAE guidance values.
- Carbon Monoxide grab sampling and monitoring did not reveal any detectable concentrations within the subject spaces.
- Total Volatile Organic Compound (VOC) grab sampling and monitoring revealed a concentration of 0.1 ppm was recorded in Room C-2 on February 25, 2019 from 17:59-18:19. Further investigation did not identify a definitive source of these readings. No detectable concentrations of VOCs were reported within the any of the remaining subject spaces during the grab sampling or monitoring periods.

In summary, the results of the inspection, sampling and monitoring performed did not reveal evidence of any significant indoor air quality conditions within the subject space. That is, the sampling and monitoring performed did not reveal the presence of any contaminants at hazardous concentrations.

In an effort to improve the quality of the indoor air, the following is recommended:

- Based upon the Temperature, Relative Humidity, and Carbon Dioxide levels observed, it is recommended that the HVAC systems servicing the spaces be inspected to ensure they are operating in accordance with manufacturer's specifications.
- Based upon the presence of moisture stained ceiling tiles, it is recommended that any sources of moisture be identified and eliminated. Impacted materials should be removed/replaced, or effectively dried, as applicable after any moisture event. The district should continue to monitor remaining building materials until they have been effectively dried, and the sources of moisture have been eliminated.
- Based upon the contents observed within the school building it is generally recommended that the district review contents and all sources of VOCs and determine if they are approved for use, being utilized in accordance with established procedures/labeling requirements, and/or are necessary for instruction.

For details pertaining to the sampling and monitoring performed, please reference the full report. If you have any questions, or if more information is needed, please contact our office.

Sincerely,

A handwritten signature in black ink, appearing to read 'Edward McGuire', with a stylized flourish at the end.

Edward McGuire
J. C. Broderick & Associates, Inc.