

IEA, INC.

2022 - 2023 IAQ Walkthrough



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Jordan Public Schools Jordan Middle School

Walkthrough Date & Time:
Thursday, March 24, 2022
10:00 AM to 12:00 PM

Project Description

IEA conducted an Indoor Air Quality (IAQ) walkthrough at Jordan Middle School by IEA representative, Alex Liebl. This walkthrough was conducted with the intent of gathering basic air quality and visual observations which will assist the District in making informed and proactive decisions to improve and maintain acceptable air quality in the building. This walkthrough is based upon the Environmental Protection Agency's (EPA's) Tools for Schools IAQ guidelines.

Some observations gathered during the walkthrough may identify issues which may require additional testing, evaluation or further investigation.

The findings, conclusions and recommendations presented herein are believed to be accurate and representative of the building on the date and time of the walkthrough.

GENERAL COMMENTS

The analysis and opinions expressed in this report are based upon data obtained from Jordan Public Schools at the indicated locations. This report does not reflect variations in conditions that may occur across the site, property, or facility. Actual conditions may vary and may not become evident without further assessment.

The report is prepared for the exclusive use of our client for specific application to the project discussed and has been prepared in accordance with generally accepted indoor air quality practices. Other than as provided in the preceding sentence, no warranties are extended or made.

Building Information

General information regarding the building was collected during the walkthrough. The information gathered during this process is a vital component, as it is helpful in determining how these items may play a role in possible IAQ related issues.

Below is a summary of the information gathered during the walkthrough:

- The building has two (2) floors.
- The building was originally constructed in 1974.
- There are additions to the building, in the following year(s): 1993 and 2002.
- There are operable and inoperable windows in the exterior rooms within the building.
- The building does utilize walk-off mats.
- There are below grade floors.
- There are no tunnels under portions of the building.

Observations Summary and Air Quality Measurements

Room / Location	Number of Occupants	Flooring Type	Odor Present	Observations	Dust Accumulation	CO ₂ (ppm)	CO (ppm)	RH (%)	Temp (°F)
OUTDOORS						428	3.2	46.7	42.5
410	10	Carpet	No		No	980	2.5	32.0	68.4
403	28	Carpet	No		No	810	2.2	31.6	69.5
416	1	Carpet	No		No	706	1.9	26.8	69.6
305	1	Carpet	No		No	752	2.0	28.4	69.8
311	1	Tile	Yes Food		No	1,094	2.2	29.0	70.7
220 - BAND ROOM	1	Carpet	No		No	764	2.2	28.0	71.1
206	1	Carpet	No		No	555	1.7	25.5	71.8
204	5	Carpet	No		No	599	1.7	27.0	69.9
203	3	Carpet	No		No	651	1.7	27.8	69.8
203A	1	Carpet	No		No	587	1.7	27.4	70.1
414	1	Carpet	No		No	789	1.7	29.4	70.2
411	1	Carpet	No		No	1,054	1.7	30.8	70.5
409	1	Carpet	No		No	766	1.7	30.4	70.4
408	1	Carpet	No		No	804	1.7	29.5	70.3
407	1	Carpet	No		No	643	1.7	27.9	70.0
406	1	Carpet	No		No	717	1.7	28.8	70.2
404	1	Carpet	No		No	670	1.7	28.7	70.1
112	25	Carpet	No		No	920	1.7	31.0	70.5
117	25	Carpet	No		No	910	1.7	30.1	70.5

Room / Location	Number of Occupants	Flooring Type	Odor Present	Observations	Dust Accumulation	CO ₂ (ppm)	CO (ppm)	RH (%)	Temp (°F)
120	25	Carpet	Yes		No	1,029	1.7	30.7	70.3
123	10	Wood	No		No	671	1.7	25.2	71.2
123B	1	Carpet	No		No	795	1.6	26.6	71.1

Summary of Concerns & Recommendations

See below for IEA's list of concern areas and recommendations:

Indoor Air Quality Parameters/Guidelines

IEA recorded area(s) with humidity levels outside the ASHRAE recommended range of 30 - 60%. Relative humidity levels identified in area(s) listed below were found to be outside these guidelines. Low humidity levels tend to dry mucous membranes which may result in increased susceptibility to irritation. Elevated humidity levels can lead to condensation and provide conditions conducive to fungal growth. Low relative humidity is common in buildings during the heating season. An evaluation of the ventilation system controls, performance and operation is recommended.

- IEA identified fifteen (15) rooms with relative humidity levels below 30%. However, this is common for non-humidified buildings during the heating season and is not considered an issue.

Odors

Odors were detected during the site visit in the building. If the source of the odor cannot be easily identified, IEA can provide further investigation or recommendations.

- 120

- 311

Food