

IEA, INC.

2022 - 2023 IAQ Walkthrough



Contact Us:

BROOKLYN PARK OFFICE

9201 W. BROADWAY, #600
BROOKLYN PARK, MN 55445
763-315-7900

MANKATO OFFICE

610 N. RIVERFRONT DRIVE
MANKATO, MN 56001
507-345-8818

ROCHESTER OFFICE

210 WOOD LAKE DRIVE SE
ROCHESTER, MN 55904
507-281-6664

BRAINERD OFFICE

601 NW 5TH STREET SUITE #4
BRAINERD, MN 56401
218-454-0703

MARSHALL OFFICE

1420 EAST COLLEGE DRIVE
MARSHALL, MN 56258
507-476-3599

VIRGINIA OFFICE

5525 EMERALD AVENUE
MOUNTAIN IRON, MN 55768
218-410-9521

www.ieasafety.com

info@ieasafety.com

800-233-9513

Saint Paul Public Schools Highland Park Elementary School

Walkthrough Date:
Thursday, March 2, 2023

Project Description

IEA conducted an Indoor Air Quality (IAQ) walkthrough at Highland Park Elementary School by IEA representative, Sashya Wandmaker. 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 Saint Paul 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 three (3) floors.
- The building has not had recent construction.
- There are operable windows in the exterior rooms within the building.
- The building was originally constructed in 1952.
- There are additions to the building, in the following year(s): 1954 and 1997.
- The building does utilize walk-off mats.
- There are below grade floors.
- There are tunnels under portions of the building.

Observations Summary and Air Quality Measurements

Room / Location	Number of Occupants	Odor Present	Observations	Dust Accumulation	CO ₂ (ppm)	CO (ppm)	RH (%)	Temp (°F)
OUTDOORS					442	2.7	80.0	36.0
1108	1	No		No	601	0.0	22.7	74.5
1105	26	No		No	1,071	0.0	30.0	73.8
1110	21	No		Yes Air Return	720	0.0	24.0	72.1
1111	22	No		Yes Air Return; In coat room	536	0.0	23.4	71.2
1109	2	No		Yes Air Return	543	0.0	23.9	71.1
1112	18	No		Yes Air Return	511	0.0	23.8	72.1
1113 STAFF LOUNGE	3	No		No	743	0.0	27.4	72.1
1120 GYM	18	No		No	560	0.0	24.6	69.9
1119 CAFETERIA	50	No		Yes Ceiling Tiles Around Air Supply	625	0.0	26.2	69.5
1120C	1	No		No	526	0.0	26.1	70.4
1118 KITCHEN	5	No		Yes Ceiling Tiles Around Air Supply	542	0.0	27.0	68.0

Room / Location	Number of Occupants	Odor Present	Observations	Dust Accumulation	CO ₂ (ppm)	CO (ppm)	RH (%)	Temp (°F)
1118A	1	No		Yes Air Return	459	0.0	26.5	69.0
1213	20	No	• Plants	No	852	0.0	29.2	69.5
1220	4	No	• Bubbling/Peeling Paint: Left of window • Stained Ceiling Tiles	No	570	0.0	26.4	70.2
1219	22	No		Yes Air Return	669	0.0	26.9	70.3
1214	2	No		No	517	0.0	25.3	70.5
1218	17	No		No	691	0.0	26.6	70.7
1215	28	No		No	722	0.0	26.6	71.3
1217	22	No	• Plants	No	691	0.0	26.4	71.1
1216	29	No		No	727	0.0	26.3	70.8
1303 MEDIA CENTER	1	No		No	520	0.0	24.5	71.5
1304	0	No		No	543	0.0	24.1	71.3
1305	2	No		No	523	0.0	24.3	71.5
1306	1	No	• Plants	No	570	0.0	24.6	71.8
2010	0	No		No	644	0.0	23.3	71.8
2011	13	No		No	677	0.0	22.1	71.4
2009	7	No		No	603	0.0	24.1	70.9
2012	14	No		No	820	0.0	22.9	71.1
2005	0	No		No	632	0.0	24.9	72.2
2014	13	No	• Plants	No	676	0.0	25.7	71.9
2001	2	No	• Plants	Yes Air Return	616	0.0	24.6	71.9
2002	1	No		No	524	0.0	23.5	72.2
2003	12	No	• Plants	No	660	0.0	24.7	69.8

Room / Location	Number of Occupants	Odor Present	Observations	Dust Accumulation	CO ₂ (ppm)	CO (ppm)	RH (%)	Temp (°F)
1104	20	No	• Plants	Yes Ceiling Tiles Around Air Supply	830	0.0	25.5	71.9
1101B	1	No	• Stained Ceiling Tiles	No	559	0.0	23.3	71.8
1101	2	No		No	553	0.0	23.8	72.2
1101A	2	No	• Plants	No	646	0.0	24.5	72.4
1102	0	No		No	608	0.0	23.0	72.8
1106	0	No		No	523	0.0	22.6	72.9
1107	3	No		No	602	0.0	23.9	73.2
2102	0	No	• Plants	No	567	0.0	22.6	73.2
2103	4	No	• Plants	No	698	0.0	23.6	73.3
2109	0	No		No	513	0.0	22.8	73.0
2112	4	No		No	511	0.0	22.9	72.6
2111	0	No		No	449	0.0	22.4	72.5
2109B	0	No		No	449	0.0	22.4	72.8
2104	1	No		No	612	0.0	22.6	73.1
2105	0	No		No	506	0.0	22.2	73.5
2106	2	No		No	583	0.0	23.3	73.4
2115	6	No		No	606	0.0	24.5	72.6
2117	25	No		No	866	0.0	26.3	72.7
2118	23	No		No	1,004	0.0	28.3	73.3
2115A	0	No		No	589	0.0	24.2	73.0
2122A	0	No		No	479	0.0	24.2	72.5
2123	0	No		No	502	0.0	24.3	72.7
2124	25	No		No	718	0.0	25.7	72.5

Room / Location	Number of Occupants	Odor Present	Observations	Dust Accumulation	CO ₂ (ppm)	CO (ppm)	RH (%)	Temp (°F)
2125	6	Yes Slight natural gas smell		No	668	0.0	24.1	72.2
2122B	1	No		No	619	0.1	26.1	71.9
2101	4	No		No	664	0.0	24.8	72.3
5TH GRADE COMMONS	0	No		No	531	0.0	25.1	71.3
2110	1	No	• Stained Ceiling Tiles	No	473	0.0	22.4	72.8
0205	3	No		Yes Air Return	520	0.0	23.4	71.3
0251	0	No		Yes Air Return	510	0.0	23.7	71.1

Plants

Plants in an occupied location can be a source of allergens to sensitized individuals due to the pollen and soil mold. It is recommended that plants be removed from locations occupied by sensitized individuals. If plants are to remain in the area, IEA recommends that plants should not be placed near air unit ventilators or air supply diffusers. Additionally, plants should be watered from the bottom. These measures will help control pollen and mold spores from becoming airborne.

- 1101A
- 1104
- 1213
- 1217
- 1306
- 2001
- 2003
- 2014
- 2102
- 2103

Dust Accumulation

IEA observed dust accumulation in the following room(s) and recommend that the specified area is wiped clean using a damp rag.

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|--------|--|----------------|--|
| • 0205 | <i>Air Return</i> | • 1118 KITCHEN | <i>Ceiling Tiles Around
Air Supply</i> |
| • 0251 | <i>Air Return</i> | • 1118A | <i>Air Return</i> |
| • 1104 | <i>Ceiling Tiles Around
Air Supply</i> | • 1119 | <i>Ceiling Tiles Around
Air Supply</i> |
| • 1109 | <i>Air Return</i> | CAFETERIA | |
| • 1110 | <i>Air Return</i> | • 1219 | <i>Air Return</i> |
| • 1111 | <i>Air Return; In coat
room</i> | • 2001 | <i>Air Return</i> |
| • 1112 | <i>Air Return</i> | | |