

December 18, 2024

Mr. Nicholas Crupi, CEFM
Director, Buildings and Grounds
Scotch Plains - Fanwood Public Schools
512 Cedar Street
Scotch Plains, NJ 07076

Dear Mr. Crupi,

This report outlines findings from [ESM Corp's](#) December 12, 2024 Indoor Air Quality monitoring at each of the 8 Scotch Plains-Fanwood Schools. This assessment was conducted as part of the Scotch Plains – Fanwood Schools routine preventative indoor air quality program to ensure acceptable air quality for students, staff and visitors.

The purposes of this inspection were the following:

- Determine if air quality parameters including fresh air supply, volatile organic compounds, carbon monoxide, temperature and humidity were within expected ranges.
- Determine if the school is in general compliance with the PEOSHA Indoor Air Quality Standard and current guidelines by the State of New Jersey and the CDC with respect to ventilation in classrooms.

The inspections, data analysis and report were conducted Mr. Richard A. Lynch, MBA, CIH, CIEC and Dr. Richard M. Lynch, Ph.D., CIH of Environmental Safety Management Corporation.

Executive Summary

Findings revealed that fresh air supply was within normal ranges in a large majority of the 180 rooms inspected throughout the 8 schools in accordance with PEOSHA, CDC and NJ Department of Education guidelines. There were no musty odors, no widespread visible water damage, and no visible mold contamination observed. There were no elevations in carbon monoxide or volatile organic compounds. Temperature and relative humidity were within normal ranges given outdoor conditions at each of the schools. Recommendations for inspecting unit ventilator fan speed and damper position in specific classrooms as well as for encouraging teachers to open windows whenever feasible, are contained at the end of this report.

I. Evaluation Criteria

For mechanically ventilated schools, The [NJ PEOSHA Indoor Air Quality Standard](#) requires that HVAC systems be inspected and maintained in accordance with manufacturer specifications and that damaged components be repaired. According to the standard, when indoor air levels of carbon dioxide exceed 1,000 parts per million the employer inspect the system to ensure that it is operating as it should NJAC 12:100-13.3. The standard also requires that when indoor air temperatures cannot be maintained between 68-79°F during the heating season, that the HVAC system be inspected. This is based upon the ASHRAE 55 standard which recommends that air temperatures be maintained between 68-72°F during the heating

season, 74-78°F during the cooling season and 68-79°F during the transition seasons; all ideally at 30-60% relative humidity.

In non-mechanically ventilated buildings the PEOSHA standard requires that the employer “Assure that buildings without mechanical ventilation are maintained so that windows, doors, vents, stacks, and other portals designed or used for natural ventilation are in operable condition (NJAC 12: 100-13.3-6). In naturally ventilated classrooms (rooms with no mechanical ventilation systems such as unit ventilators, or rooftop air handlers), it is recommended that windows be opened to the maximum extent possible given temperature and security concerns.

II. Methods

Based upon the above, the following methods were observed:

1. A visual inspection of a representative sample of classrooms within each building was conducted for indications of air quality concerns including water damage, musty odors, air flow and general cleanliness.
2. Carbon Dioxide (CO₂) was measured as an indicator of fresh air supply in each of the representative areas evaluated at the center of the room, and where accessible, at the discharge of unit ventilators, using a TSI Q-Trak 7575 IAQ Monitor. Carbon monoxide, temperature and relative Humidity were also measured.
3. Volatile Organic Compounds (VOC's) were measured using a Toxi Rae or Mini Rae 2000 Photoionizer calibrated to isobutylene.

III. Findings and Results

General Observations

- Approximately 168 classrooms throughout the district were inspected and monitored during normal occupancy by students and staff.
- Classrooms were occupied by an average of 6 to 17 students at the time of assessment.
- Unit ventilators in over 87% of classrooms throughout the district were operating at the time of inspection.
- Windows were closed in most classrooms in each building.
- There were no indications of unusual accumulations of dust or debris in any areas.
- There were no mold-like or musty odors present, and no evidence of unusual mold growth in the areas inspected.

Air Monitoring Findings

- Outdoor air was measured to contain approximately 398 to 445 parts per million carbon dioxide with temperature at 42 to 45°F. Outdoor Relative humidity averaged approximately 21% over the inspection period.
- The average carbon dioxide level in all classrooms monitored was 931 parts per million; lower than to the PEOSHA guideline of 1000 ppm and the ASHRAE guideline of 700 ppm above outdoor levels. Fresh air introduction rates as indicated by carbon dioxide levels were within PEOSHA/ASHRAE guidelines in a large majority of classrooms inspected, indicating that rooftop air handlers and unit ventilators were operating per design.
- There were no elevations in carbon monoxide or volatile organic compounds detected in any of the classrooms monitored.
- Temperature and relative humidity were within the PEOSH recommended range in most areas tested, averaging 72@ 25% RH, and considered normal.
- A few classrooms in Coles, Nettingham and McGinn had unit ventilators that were deactivated at

the time of inspection, reducing outdoor air introduction.
A summary of inspection findings and air quality results is displayed in Table #1 below.

Table #1 – Q2 Air Quality Summary December 12, 2024 - Scotch Plains Fanwood Schools

	Total Rooms inspected	Average CO2 levels (center of room)	Average Temperature (°F)	Average Relative Humidity (%)	Average number of windows open	Average number of students present
Scotch Plains - Fanwood High School	33	933	72	30	0	17
Evergreen Elementary	21	807	72	23	0	13
Coles Elementary	20	1001	71	23	0	13
Terrill Middle School	16	940	72	29	1	16
McGinn Elementary	21	951	72	22	0	16
Malcolm E. Nettingham Middle School	21	825	71	26	1	14
School One Elementary	19	822	70	20	0	6
Brunner Elementary	17	1218	72	27	0	13
Total	168	-	-	-	-	-
Average	21	931	72	25	0	13

Detailed classroom findings and recommendations are contained on Table #2 at the end of this report.

IV. Conclusions and Recommendations

The December 2024 routine Indoor Air Quality Assessment of the Scotch Plains – Fanwood schools revealed that fresh air supply rates were within normal expected ranges in a large majority of the 168 rooms inspected throughout the 8 schools in accordance with PEOSHA, CDC and NJ Department of Education guidelines. There were no musty odors, no widespread visible water damage, and no visible mold contamination observed. There were no elevations in carbon monoxide or volatile organic compounds. Temperature and relative humidity were within normal ranges given outdoor conditions at each of the schools.

Recommendations

1. Unit ventilators and rooftop HVAC systems in particular classrooms as shown in school-specific Tables at the end of this report should be inspected for airflow rates and/or fresh air damper position.
2. Teachers should be encouraged to open as many windows as is feasible given outdoor temperature and humidity conditions, keep unit ventilators running, and operate supplemental air filters in classrooms where provided by the district.

Thank you for the opportunity to assist you with the evaluation. Our next routine scheduled monitoring will be scheduled for February/March 2024. Please contact me with any questions at (856)764-3557.

Sincerely,

Richard A. Lynch

Richard A. Lynch, MBA, CIH, CIEC

Certified Industrial Hygienist

NJ Licensed Indoor Environmental Consultant

www.esmcorp.com

Reviewed and Authorized:

Richard M. Lynch

Richard M. Lynch, Ph.D., CIH, CMC, CMRS, CHFM

NJ Licensed Indoor Environmental Consultant

President, ESMCorp

rlynch@esmcorp.com

School Name **Scotch Plains - Fanwood High School**

Inspection Type **Mold/Air Quality Inspection**

Date of inspection **12/12/2024**

Inspected Reviewed and Finalized **Mr. Richard A. Lynch, MBA, CIH, CIEC**

by: **Dr. Richard M. Lynch, Ph.D., CIH, CMC, CMRS, CHI**



Location	General Observations						Average Room Measurements				Supply Measurements		
	visible mold	Musty Odors?	Visible Water Damage?	HVAC running	Actual students	Windows Open?	Carbon Dioxide (ppm)	Carbon Monoxide (ppm)	°F	Relative Humidity %	VOC	CO2 @ Supply	notes
outside	-	-	-	-	-	-	398	0.3	45	19	0	-	
274	no	no	no	yes	2	2	572	0	70	21	0	462	
158	no	no	no	yes	10	1	660	0	71	25	0	654	
164	no	no	no	yes	20	0	663	0	72	24	0	533	
267	no	no	no	yes	14	1	742	0	72	25	0	548	
111	no	no	no	yes	1	0	800	0	68	35	0	roof	
141	no	no	no	yes	0	0	825	0	69	32	0	roof	
202	no	no	no	yes	17	0	840	0	70	29	0	roof	
175	no	no	no	yes	23	0	844	0	70	23	0	662	
265	no	no	no	yes	20	1	850	0	72	24	0	650	
122	no	no	no	yes	16	0	851	0	71	28	0	roof	
215	no	no	no	yes	1	0	864	0	72	29	0	roof	
155	no	no	no	yes	20	0	882	0	72	25	0	690	
131	no	no	no	yea	20	0	907	0	71	30	0	roof	
245	no	no	no	yes	1	0	911	0	73	31	0	roof	
130	no	no	no	yes	8	0	917	0	70	32	0	roof	
243	no	no	no	yes	18	0	932	0	72	32	0	roof	
211	no	no	no	yes	15	0	935	0	72	31	0	roof	
206	no	no	no	yes	24	0	945	0	71	31	0	roof	
139	no	no	no	yes	20	0	961	0	70	36	0	roof	
224	no	no	no	yes	17	0	978	0	71	33	0	roof	
150	no	no	no	no	35	1	980	0	75	24	0	-	reactivate unit ventilator
137	no	no	no	yes	24	0	988	0	69	40	0	roof	
171	no	no	no	yes	22	0	988	0	72	28	0	840	

School Name **Scotch Plains - Fanwood High School**
 Inspection Type **Mold/Air Quality Inspection**
 Date of inspection **12/12/2024**
 Inspected Reviewed and Finalized **Mr. Richard A. Lynch, MBA, CIH, CIEC**
 by: **Dr. Richard M. Lynch, Ph.D., CIH, CMC, CMRS, CHI**



Location	General Observations						Average Room Measurements				Supply Measurements		
	visible mold	Musty Odors?	Visible Water Damage?	HVAC running	Actual students	Windows Open?	Carbon Dioxide (ppm)	Carbon Monoxide (ppm)	°F	Relative Humidity %	VOC	CO2 @ Supply	notes
outside	-	-	-	-	-	-	398	0.3	45	19	0	-	
135	no	no	no	yes	20	0	996	0	71	33	0	roof	
238	no	no	no	yes	25	0	997	0	72	34	0	roof	
271	no	no	no	yes	24	1	1025	0	76	28	0	931	
281	no	no	no	yes	22	1	1030	0	68	30	0	899	
247	no	no	no	yes	20	0	1034	0	73	32	0	roof	
234	no	no	no	yes	20	0	1060	0	72	34	0	roof	
225	no	no	no	yes	20	0	1085	0	72	34	0	roof	
260	no	no	no	yes	24	0	1181	0	78	23	0	1025	inspect unit ventilators for fan speed and damper position
254	no	no	no	yea	25	0	1250	0	75	27	0	989	inspect unit ventilators for fan speed and damper position
278	no	no	no	no	20	0	1300	0	72	32	0	-	reactivate unit ventilator
Average					17	0	933	0	72	30	0	740	

School Name **Evergreen Elementary**
Inspection Type **Mold/Air Quality Inspection**
Date of inspection **12/12/2024**
Inspected Reviewed and Finalized **Mr. Richard A. Lynch, MBA, CIH, CIEC**
by: **Dr. Richard M. Lynch, Ph.D., CIH, CMC, CMRS, CF**



Location	General Observations						Average Room Measurements				Supply Measurements		
	visible mold	Musty Odors?	Visible Water Damage?	HVAC running	Actual students	Windows Open?	Carbon Dioxide (ppm)	Carbon Monoxide (ppm)	°F	Relative Humidity %	VOC	CO2 @ Supply	notes
outside	-	-	-	-	-	-	421	0	44	22	0	-	
128	no	no	no	yes	0	0	520	0	73	19	0	489	
104	no	no	no	yes	0	0	521	0	72	14	0	467	
107	no	no	no	yes	3	0	584	0	75	18	0	469	
127	no	no	no	yes	0	0	602	0	71	18	0	567	
108	no	no	no	yes	0	0	621	0	75	15	0	471	
131	no	no	no	yes	20	0	653	0	75	15	0	587	
141	no	no	no	yes	6	0	687	0	71	25	0	564	
143	no	no	no	yes	1	0	748	0	69	24	0	roof	
132	no	no	no	yes	20	0	765	0	76	19	0	625	
150	no	no	no	yes	15	0	770	0	69	24	0	roof	
152	no	no	no	yes	15	0	803	0	70	30	0	roof	
119	no	no	no	yes	19	0	812	0	73	21	0	620	
153	no	no	no	yes	20	0	850	0	68	24	0	roof	
120	no	no	no	yes	11	0	852	0	74	29	0	765	
117	no	no	no	yes	16	0	853	0	74	28	0	roof	
118	no	no	no	yes	18	0	865	0	72	25	0	678	
115	no	no	no	yes	16	0	943	0	72	29	0	roof	
114	no	no	no	yes	22	0	954	0	71	27	0	roof	
134	no	no	no	no	19	0	1009	0	72	21	0	-	
124	no	no	no	yes	20	0	1250	0	74	32	0	1113	inspect unit ventilator for fan speed and damper position
112	no	no	no	yes	22	0	1279	0	73	30	0	roof	inspect rooftop ventilator for fan speed and damper position
Average					13	0	807	0	72	23	0	618	

School Name **Coles Elementary**

Inspection Type **Mold/Air Quality Inspection**

Date of inspection **12/12/2024**

Inspected Reviewed and Finalized **Mr. Richard A. Lynch, MBA, CIH, CIEC**

by: **Dr. Richard M. Lynch, Ph.D., CIH, CMC, CMRS, CHFI**



Location	General Observations						Average Room Measurements				Supply Measurements		
	visible mold	Musty Odors?	Visible Water Damage?	HVAC running	Actual students	Windows Open?	Carbon Dioxide (ppm)	Carbon Monoxide (ppm)	°F	Relative Humidity %	VOC	CO2 @ Supply	notes
outside	-	-	-	-	-	-	421	0	44	22	0	-	
128	no	no	no	yes	7	0	797	0	71	26	0	roof	
130	no	no	no	yes	8	0	842	0	71	26	0	roof	
142	no	no	no	no	1	0	853	0	70	24	0	742	
110	no	no	no	yes	18	0	854	0	70	23	0	721	
145	no	no	no	no	1	0	855	0	72	24	0	-	reactivate unit ventilator
126	no	no	no	yes	1	0	858	0	70	24	0	roof	
117	no	no	no	yes	19	0	866	0	74	13	0	731	
120	no	no	no	yes	16	0	867	0	73	17	0	710	
138	no	no	no	yes	19	0	967	0	70	17	0	619	
111	no	no	no	yes	17	0	988	0	73	23	0	862	
118	no	no	no	yes	19	0	988	0	75	20	0	930	
139	no	no	no	yes	22	0	1036	0	70	20	0	761	
116	no	no	no	no	18	0	1037	0	75	18	0	753	
113	no	no	no	yes	0	0	1060	0	75	21	0	764	
134	no	no	no	yes	21	0	1074	0	70	24	0	953	
114	no	no	no	yes	20	0	1083	0	74	19	0	944	
149	no	no	no	yes	0	0	1098	0	67	27	0	1042	
141	no	no	no	yes	21	0	1185	0	70	26	0	956	inspect unit ventilator for fan speed and damper position
137	no	no	no	no	0	0	1247	0	69	32	0	-	reactivate unit ventilator
135	no	no	no	yes	22	0	1467	0	69	30	0	1368	inspect unit ventilator for fan speed and damper position
Average					13	0	1001	0	71	23	0	857	

School Name **Terrill Middle School**
 Inspection Type **Mold/Air Quality Inspection**
 Date of inspection **12/12/2024**
 Inspected Reviewed and Finalized **Mr. Richard A. Lynch, MBA, CIH, CIEC**
 by: **Dr. Richard M. Lynch, Ph.D., CIH, CMC, CMRS, CHFM**



Location	General Observations						Average Room Measurements				Supply Measurements		
	visible mold	Musty Odors?	Visible Water Damage?	HVAC running	Actual students	Windows Open?	Carbon Dioxide (ppm)	Carbon Monoxide (ppm)	°F	Relative Humidity %	VOC	CO2 @ Supply	notes
outside	-	-	-	-	-	-	398	0.3	45	19	0	-	
7	no	no	no	yes	0	2	445	2	72	23	0	410	
8	no	no	no	yes	20	1	629	0	69	32	0	538	
13	no	no	no	yes	24	1	658	0	73	22	0	505	
25	no	no	no	yes	3	0	736	0	76	23	0	555	
14	no	no	no	yes	24	3	770	0	73	28	0	550	
22	no	no	no	yes	14	0	817	0	72	23	0	587	
21	no	no	no	yes	24	1	838	0	74	25	0	732	
29	no	no	no	yes	1	0	843	0	75	25	0	689	
3	no	no	no	yes	20	0	908	0	70	32	0	690	
2	no	no	no	yes	17	0	928	0	71	31	0	734	
35	no	no	no	yes	15	0	1033	0	68	28	0	630	
27	no	no	no	yes	27	0	1125	0	74	30	0	914	inspect unit ventilator for fan speed and damper position
34	no	no	no	yes	25	0	1257	0	69	40	0	1240	inspect unit ventilator for fan speed and damper position
10	no	no	no	yes	20	0	1286	0	70	35	0	936	inspect unit ventilator for fan speed and damper position
18	no	no	no	yes	15	0	1350	0	74	26	0	661	inspect unit ventilator for fan speed and damper position
40	no	no	no	cycling	5	0	1415	0	68	42	0	1478	inspect unit ventilator for fan speed and damper position
Average					16	1	940	0	72	29	0	741	-

School Name **McGinn Elementary**
 Inspection Type **Mold/Air Quality Inspection**
 Date of inspection **12/12/2024**

Inspected Reviewed and Finalized **Mr. Richard A. Lynch, MBA, CIH, CIEC**
 by: **Dr. Richard M. Lynch, Ph.D., CIH, CMC, CMRS, CHFM**



Location	General Observations						Average Room Measurements				Supply Measurements		
	visible mold	Musty Odors?	Visible Water Damage?	HVAC running	Actual students	Windows Open?	Carbon Dioxide (ppm)	Carbon Monoxide (ppm)	°F	Relative Humidity %	VOC	CO2 @ Supply	notes
outside	-	-	-	-	-		421	0	44	22	0	-	
118	no	no	no	yes	0	1	518	0	72	11	0	500	
150	no	no	no	yes	25	0	753	0	70	19	0	roof	
108	no	no	no	yes	17	0	768	0	71	20	0	roof	
151	no	no	no	yes	20	0	818	0	69	21	0	roof	
148	no	no	no	yes	22	0	843	0	70	21	0	roof	
120	no	no	no	yes	20	0	878	0	75	16	0	705	
107	no	no	no	yes	16	0	894	0	72	19	0	roof	
152	no	no	no	yes	23	0	895	0	69	25	0	roof	
129	no	no	no	no	7	0	900	0	71	26	0	-	reactivate unit ventilator
105	no	no	no	no	11	0	953	0	73	26	0	-	reactivate unit ventilator
130	no	no	no	no	20	0	957	0	71	21	0	-	reactivate unit ventilator
128	no	no	no	yes	17	0	984	0	72	27	0	735	
117	no	no	no	yes	0	0	1004	0	73	22	0	725	
122	no	no	no	yes	23	2	1018	0	75	19	0	758	
133	no	no	no	no	1	0	1020	0	72	23	0	-	reactivate unit ventilator
124	no	no	no	no	0	0	1027	0	76	20	0	-	reactivate unit ventilator
136	no	no	no	no	25	0	1068	0	71	23	0	-	reactivate unit ventilator
137	no	no	no	no	22	0	1150	0	71	28	0	-	reactivate unit ventilator
132	no	no	no	no	19	0	1167	0	72	26	0	-	reactivate unit ventilator
103	no	no	no	no	18	0	1175	0	73	33	0	-	reactivate unit ventilator
121	no	no	no	yes	25	0	1184	0	78	22	0	1133	inspect unit ventilator for fan speed and damper position
Average					16	0	951	0	72	22	0	759	

School Name **Malcolm E. Nettingham Middle School**
 Inspection Type **Mold/Air Quality Inspection**
 Date of inspection **12/12/2024**

Inspected Reviewed and Finalized **Mr. Richard A. Lynch, MBA, CIH, CIEC**
 by: **Dr. Richard M. Lynch, Ph.D., CIH, CMC, CMRS, CHFM**



General Observations							Average Room Measurements				Supply Measurements		
Location	visible mold	Musty Odors?	Visible Water Damage?	HVAC running	Actual students	Windows Open?	Carbon Dioxide (ppm)	Carbon Monoxide (ppm)	°F	Relative Humidity %	VOC	CO2 @ Supply	notes
outside	-	-	-	-	-	-	399	0	44	22	0		
119f	no	no	no	yes	0	na	502	0	68	20	0	roof	
media center	no	no	no	yes	10	na	553	0	68	21	0	roof	
110	no	no	no	yes	1	0	574	0	69	26	0	458	
118	no	no	no	yes	8	na	592	0	70	25	0	roof	
113	no	no	no	yes	8	0	611	0	69	22	0	462	
119d	no	no	no	yes	18	na	615	0	70	25	0	roof	
103	no	no	no	yes	8	2	618	0	71	21	0	roof	
202	no	no	no	yes	20	0	690	0	70	23	0	516	
212	no	no	no	yes	0	0	712	0	71	24	0	500	
205	no	no	no	yes	16	1	725	0	66	25	0	568	
213	no	no	no	yes	3	3	799	0	77	23	0	540	
303	no	no	no	yes	16	0	807	0	73	23	0	509	
311	no	no	no	yes	20	0	833	0	72	23	0	600	
217	no	no	no	yes	25	0	855	0	76	23	0	600	
319	no	no	no	yes	22	0	909	0	72	23	0	525	
314	no	no	no	yes	20	3	950	0	71	28	0	824	
207	no	no	no	yes	18	0	970	0	71	28	0	684	
307	no	no	no	yea	20	1	980	0	71	29	0	686	
218	no	no	no	no	20	0	1047	0	75	33	0	800	
104	no	no	no	no	25	0	1250	0	72	35	0	-	reactivate unit ventilator
108	no	no	no	no	10	0	1736	0	71	38	0	-	reactivate unit ventilator
Average					14	1	825	0	71	26	0	591	

School Name **School One Elementary**

Inspection Type **Mold/Air Quality Inspection**

Date of inspection **12/12/2024**

Inspected Reviewed and Finalized **Mr. Richard A. Lynch, MBA, CIH, CIEC**

by: **Dr. Richard M. Lynch, Ph.D., CIH, CMC, CMRS, CHI**



General Observations							Average Room Measurements				Supply Measurements		
Location	visible mold	Musty Odors?	Visible Water Damage?	HVAC running	Actual students	Windows Open?	Carbon Dioxide (ppm)	Carbon Monoxide (ppm)	°F	Relative Humidity %	VOC	CO2 @ Supply	notes
outside	-	-	-	-	-	-	421	0	44	22	0	-	
208	no	no	no	yes	0	0	656	0	70	15	0	roof	
104	no	no	no	yes	0	0	700	0	70	19	0	roof	
106	no	no	no	yes	1	0	705	0	70	21	0	roof	
212	no	no	no	yes	0	0	720	0	70	15	0	roof	
109	no	no	no	yes	0	0	741	0	70	21	0	roof	
110	no	no	no	yes	0	0	742	0	70	20	0	roof	
213	no	no	no	yes	13	0	747	0	70	15	0	roof	
112	no	no	no	yea	14	0	762	0	71	20	0	roof	
207				yes	6	0	765	0	71	16	0	roof	
210	no	no	no	yes	13	0	765	0	70	15	0	roof	
108	no	no	no	yes	1	0	768	0	69	23	0	roof	
130T				no	7	0	771	0	68	30	0	-	reactivate unit ventilator
103	no	no	no	yea	0	0	772	0	70	20	0	roof	
101	no	no	no	yes	1	0	825	0	70	23	0	roof	
203	no	no	no	yes	0	0	861	0	70	13	0	roof	
204	no	no	no	yes	12	0	938	0	70	20	0	roof	
131T	no	no	no	no	7	0	985	0	69	31	0	-	reactivate unit ventilator
206	no	no	no	yes	18	0	1122	0	71	23	0	roof	inspect rooftop unit for fan speed and damper position
201	no	no	no	yes	18	0	1272	0	71	22	0	roof	inspect rooftop unit for fan speed and damper position
Average					6	0	822	0	70	20	0	-	

School Name **Brunner Elementary**
 Inspection Type **Mold/Air Quality Inspection**
 Date of inspection **12/12/2024**

Inspected Reviewed and Finalized **Mr. Richard A. Lynch, MBA, CIH, CIEC**
 by: **Dr. Richard M. Lynch, Ph.D., CIH, CMC, CMRS, CHFM**



General Observations							Average Room Measurements				Supply Measurements		
Location	visible mold	Musty Odors?	Visible Water Damage?	HVAC running	Actual students	Windows Open?	Carbon Dioxide (ppm)	Carbon Monoxide (ppm)	°F	Relative Humidity %	VOC	CO2 @ Supply	notes
outside	-	-	-	-	-	-	445	0	42	16	0	-	
119	no	no	no	yes	1	0	689	0	71	21	0	574	
106	no	no	no	yes	0	0	726	0	72	28	0	679	
126	no	no	no	yes	0	0	735	0	71	20	0	roof	
128	no	no	no	yes	0	0	737	0	72	20	0	roof	
125	no	no	no	yes	12	0	828	0	71	22	0	roof	
123	no	no	no	yes	4	0	924	0	71	28	0	roof	
121	no	no	no	no	1	0	1036	0	72	26	0	no	reactivate unit ventilator
118	no	no	no	yes	17	0	1058	0	72	22	0	1041	
204	no	no	no	yes	3	0	1164	0	74	30	0	1029	inspect unit ventilator for fan speed and damper position
111	no	no	no	yes	22	0	1225	0	76	31	0	1121	inspect unit ventilator for fan speed and damper position
208	no	no	no	yes	20	0	1258	0	74	23	0	972	inspect unit ventilator for fan speed and damper position
207	no	no	no	yes	24	0	1294	0	71	26	0	964	inspect unit ventilator for fan speed and damper position
113	no	no	no	yes	22	0	1358	0	72	29	0	1263	inspect unit ventilator for fan speed and damper position
112	no	no	no	yes	22	0	1458	0	72	29	0	1048	inspect unit ventilator for fan speed and damper position
206	no	no	no	yes	23	0	1805	0	71	36	0	1778	inspect unit ventilator for fan speed and damper position
210	no	no	no	yes	24	0	1952	0	74	34	0	1768	inspect unit ventilator for fan speed and damper position
201	no	no	no	yes	21	0	2458	0	75	41	0	2435	inspect unit ventilator for fan speed and damper position
Average					13	0	1218	0	72	27	0	1223	