

### Uniform Indoor Air Quality Inspection and Evaluation Program

Reporting Year: 2024

District:

Meriden Public Schools

School:

John Barry Elementary School

24 Columbia Street, Meriden, CT 06451

In accordance with section 10-220(d) of the Connecticut General Statutes ("CGS § 10-220(d)" or "IAQ Statute"), Meriden Public Schools completed a uniform Indoor Air Quality (IAQ) inspection and evaluation of "John Barry Elementary" in 2024. This report provides summaries of the School's inspections and evaluations undertaken pursuant to the 14 IAQ categories set forth in the IAQ Statute. Where applicable, Meriden Public Schools referred to and relied on the U.S. Environmental Protection Agency's (EPA's) IAQ Tools for Schools (TFS) guidance and checklists in its inspections and evaluations. The TFS checklists completed for the School in 2024 can be found at <a href="https://barry.meridenk12.org/news/tools-for-schools/">https://barry.meridenk12.org/news/tools-for-schools/</a>.

### 1. Heating, Ventilation and Air Conditioning (HVAC) Systems

Meriden Public Schools completed this assessment requirement using a combination of the TFS general Walkthrough Inspection Checklist and Ventilation Checklist. These checklists provide guidance for evaluating multiple elements of the School's HVAC systems, including the School building's outdoor intakes and potential pollutant sources, system cleanliness and preventative maintenance programs, control components, distribution systems, and exhaust systems.

In accordance with section 10-231e of the Connecticut General Statutes, Meriden Public Schools also ensures that the School's HVAC systems are (1) maintained and operated in accordance with the prevailing maintenance standards at the time of installation or renovation of such systems, and (2) operated continuously during the hours in which students or School personnel occupy School facilities, except (A) during scheduled maintenance and emergency repairs, and (B) during periods for which School officials can demonstrate that the quantity of outdoor air supplied provides sufficient air changes.

This year's assessment did not identify any issues with the HVAC system that required immediate action in connection with IAQ in the School or an update to reflect the findings

### 2. Radon Levels in Air

Meriden Public Schools has a long-established radon testing program for the School in accordance with CGS § 10-220(d) and the State of Connecticut Department of Public Health (CTDPH) guidance. This program currently requires qualified and trained professionals to evaluate each school building for radon through sampling and laboratory analysis every three years as well as reporting to CTDPH. Meriden Public Schools is conducting a radon evaluation in all school buildings during the 2024-2025 testing season. The District is due for the next periodic evaluation during the 2027-2028 school year.

3. Potential For Exposure to Microbiological Airborne Particles, Including, But Not Limited To, Fungi, Mold, and Bacteria

Meriden Public Schools addressed this assessment requirement using a combination of EPA's TFS general Walkthrough Inspection, Building and Grounds Maintenance, Food Service, and Teacher's Classroom Checklists.

The focus items include evaluation of drainage at the exterior and roof of the building, any evidence of interior moisture intrusion or moisture issues through roof or plumbing leaks or any consistent condensation, evidence of mold/mildew growth, etc.

The School's IAQ conditions were typical of school buildings and no concerns for microbiological airborne particles were noted in the assessment.

4. Chemical Compounds of Concern to Indoor Air Quality Including, But Not Limited To, Volatile Organic Compounds

Meriden Public Schools addressed this assessment requirement using a combination of EPA's TFS general Walkthrough Inspection and Building and Grounds Maintenance checklists. The focus items include the evaluation of building maintenance supplies and grounds maintenance supplies and how they are used, stored, and labeled as well as spill response, engineering, and administrative controls used in conjunction with these products.

The assessment did not reveal any issues with chemicals of concern impacting the IAQ. Additionally, the School continues to operate its green cleaning program utilizing environmentally preferable cleaning and disinfecting products or updates to reflect findings.

5. Degree Of Pest Infestation, Including, But Not Limited To, Insects and Rodents

Meriden Public Schools addressed this assessment requirement using a combination of EPA's TFS general Walkthrough Inspection, Teacher's Classroom, Waste Management, Food Service, and Integrated Pest Management checklists. The focus items include the evaluation of pest evidence, entry points, food, water, and identification of potential pest habitats as well as establishing a regular monitoring program.

Buildings are visually inspected bi-weekly by Total Pest Control (the district's integrated pest management company) to evaluate reported issues (if applicable), review potential exterior entry points and eliminate conditions that might be conducive to breeding or attracting pests. After the assessment, it was determined that any food stored in classrooms should be contained in plastic containers.

6. Degree Of Pesticide Usage

Meriden Public Schools operates an Integrated Pest Management (IPM) program in accordance with CGS § 10-231a-231d. The IPM program requires Meriden Public Schools to evaluate alternative pest management methods before using pesticides, utilize the least toxic method to address the pest problem and ensure all pest control products are used and stored in accordance with regulatory and manufacturer requirements by trained and qualified personnel. The plan further requires notifications to school occupants and parents of pesticide applications through posted notices and/or letters and that records of IPM practices and a pest management log be maintained for the School.

The application of pesticides on School grounds is avoided unless there is an emergency and it is only used under the direction of a licensed pesticide applicator.

 The Presence Of And The Plans For Removal Of Any Hazardous Substances That Are Contained On The List Prepared Pursuant To Section 302 Of The Federal Emergency Planning And Community Right-To-Know Act, 42 USC 9601 Et Seq. (EPCRA) Meriden Public Schools has evaluated the School for the potential presence of "extremely hazardous substances" as listed in EPCRA Section 302 and determined there are currently none present.

8. Ventilation Systems

The assessment of the School's ventilation systems is addressed in Section 1 herein.

9. Plumbing, Including Water Distribution Systems, Drainage Systems and Fixtures

Meriden Public Schools addressed this assessment requirement using a combination of EPA's TFS General Walkthrough Inspection, Building and Grounds Maintenance, Teacher's Classroom, and Food Service checklists. The focus items include the evaluation of drainage and plumbing systems for evidence of leaks, odors, staining, condensation, and evidence of mold/mildew growth.

Based on the walkthrough, no plumbing issues affecting IAQ were identified

### 10. Moisture Incursion

Meriden Public Schools addressed this assessment requirement using a combination of EPA's TFS general Walkthrough Inspection, Building and Grounds Maintenance, Teacher's Classroom and Food Service checklists. The focus items include evaluation of drainage at the exterior and roof of the building, evidence of interior moisture intrusion or moisture issues through roof or plumbing leaks or consistent condensation, and evidence of mold/mildew growth.

In Meriden, if school staff see issues of moisture incursion they report them to the head custodian. The head custodian enters a work order ticket. When these issues are identified via the ticket process or otherwise brought to the attention of the Facilities Department, they are repaired or replaced as applicable and the root cause of the moisture is evaluated and addressed.

### 11. Overall Cleanliness of The Facilities

Meriden Public Schools addressed this assessment requirement using a combination of EPA's TFS general Walkthrough Inspection, Teacher's Classroom, Waste Management, Food Service, and Integrated Pest Management checklists. The focus items include evaluation of sanitary conditions in food handling and storage areas, ensuring waste does not accumulate, verifying walk-off mats are present at each entrance, ensuring proper procedures are in place for dust control during cleaning activities and a schedule is established for vacuuming and mopping floors.

At John Barry Elementary School, minor dust collection was noted in limited areas, but overall, the School facility was acceptably clean.

12. Building Structural Elements, Including, But Not Limited To, Roofing, Basements or Slabs

Meriden Public Schools addressed this assessment requirement using a combination of EPA's TFS general Walkthrough Inspection and Building and Grounds Maintenance checklists. The focus items include visual evaluation of roofing materials and structural components of the building.

13. Use Of Space, Particularly Areas That Were Designed to Be Unoccupied



Meriden Public Schools continuously evaluates the use of space at the School. Meriden Public Schools staff understand that spaces not designed to be occupied may not have adequate ventilation or meet minimum requirements for heating or cooling.

The School's walkthrough did not identify the use of any spaces contrary to their intended use (e.g., the use of a closet as an office).

14. The Provision of Indoor Air Quality Maintenance Training for Building Staff

The School's building staff have been trained, most recently in 2024, in the use of the EPA TFS checklists to gather information related to the overall condition of the school building. Staff understand that findings must be documented and addressed promptly. Additionally, certain staff members have specialized training related to HVAC, plumbing, nursing, groundskeeping, etc., and serve a critical role in addressing identified concerns if/when they arise.



- Read the IAQ
   Backgrounder and
   the Background
   Information for
   this checklist.
- Keep the Background Information and make a copy of the checklist for future reference.
- 3. Complete the Checklist.
  - Check the "yes,"
     "no," or
     "not applicable"
     box beside each
     item. (A "no"
     response requires
     further attention.)
  - Make comments in the "Notes" section as necessary.
- 4. Return the checklist portion of this document to the IAQ Coordinator.

# **Building and Grounds Maintenance Checklist**

Name: STEPHEN I	KOGUT
School: John Barry Eleme	entary School
Room or Area: AU	Date Completed:
Signature: Styphen A	Cognit

1.	BUILDING MAINTENANCE SUPPLIES	No	BI/A
la.	Developed appropriate procedures and stocked supplies for spill control		
	Reviewed supply labels	_	_
	Ensured that air from chemical and trash storage areas vents to the outdoors		
	Stored chemical products and supplies in sealed, clearly labeled containers		٥
le.	Researched and selected the safest products available		
	Ensured that supplies are being used according to manufacturers' instructions		
	Ensured that chemicals, chemical-containing wastes, and containers are disposed of according to manufacturers' instructions	۵	
1h.	1		
li.	Scheduled work involving odorous or hazardous chemicals for periods when the school is unoccupied		
1j.	Ventilated affected areas during and after the use of odorous or hazardous chemicals		
2.	GROUNDS MAINTENANCE SUPPLIES		
2a.	Stored grounds maintenance supplies in appropriate area(s)		
2Ъ.	Ensured that supplies are used and stored according to manufacturers' instructions		
	Established and followed procedures to minimize exposure to fumes from supplies		
2d.	Reviewed and followed manufacturers' guidelines for maintenance		
2e.	Replaced portable gas cans with low-emission cans		
2f.	containers	ū	ū
2g.	Ensured that chemicals, chemical-containing wastes, and containers are disposed of according to manufacturers' instructions	ם	۵
3.	DUST CONTROL /		
3a.	Installed and maintained barrier mats for entrances		
	Used high efficiency vacuum bags		
	Used proper dusting techniques		
	Wrapped feather dusters with a dust cloth		
3e.	Cleaned air return grilles and air supply vents		

4.	FLOOR CLEANING Yes	No	N/A	
4b.	Established and followed schedule for vacuuming and mopping floors	ū	0	
5.				
5b.	Poured water down floor drains once per week (about 1 quart of water) Z  Ran water in sinks at least once per week (about 2 cups of water)		<u> </u>	
6.	MOISTURE, LEAKS, AND SPILLS			
6a.	Checked for moldy odors	0		
6b.	Inspected ceiling tiles, floors, and walls for leaks or discoloration (may indicate periodic leaks)			
6c.	Checked areas where moisture is commonly generated (e.g., kitchens, locker rooms, and bathrooms)			
6d.	Checked that windows, windowsills, and window frames are free of condensate			
	Checked that indoor surfaces of exterior walls and cold water pipes are free of condensate	Q		
6f.	Ensured the following areas are free from signs of leaks and water damage:  Indoor areas near known roof or wall leaks  Walls around leaky or broken windows  Floors and ceilings under plumbing  Duct interiors near humidifiers, cooling coils, and outdoor air intakes		0 0	
7.	COMBUSTION APPLIANCES	,		
7b. 7с.	Checked for odors from combustion appliances			
8.	PEST CONTROL	/		
8a.	Completed the Integrated Pest Management Checklist	۵	۵	
NC	OTES  GF-TO THE EXTEND WE CAN SEE THE D  70-WE HAVE IT PROFESSIONALLY CLE	DUC ANG	T IN	TERTOR.



## **Food Service Checklist**

Name: Don Skirida
School: John Barry Elementary School
Room or Area: (Skillid Mitten Date Completed: 4/5/2024
Signature: Duniu Short

### Instructions

- Read the IAQ
   Backgrounder and
   the Background
   Information for
   this checklist.
- 2. Keep the
  Background
  Information and
  make a copy of
  the checklist for
  future reference.
- 3. Complete the Checklist.
  - Check the "yes," "no," or "not applicable" box beside each item. (A "no" response requires further attention.)
  - Make comments in the "Notes" section as necessary.
- 4. Return the checklist portion of this document to the IAQ Coordinator.

1a.	Determined that local exhaust fans operate properly (note if fans are excessively noisy) (anticle of the control of the contro	No∕ ☑	N/A
1b.	Checked for odors near cooking, preparation, and eating areas	ο.	
1c.	Ensured that exhaust fans are used whenever cooking, washing dishes, and cleaning	ର୍	
1d.	Determined that gas appliances function properly		
1e.	Verified that gas appliances are vented outdoors		
	Ensured there are no combustion gas or natural gas odors, leaks, backdrafting, or headaches when gas appliances are used		
_	Ensured that kitchen is clean after use		
	Checked for signs of microbiological growth in the kitchen, including the upper walls and ceiling (for example, mold, slime, and algae)		
li.	Selected biocides registered by EPA (if required), followed the manufacturer's directions for use, and carefully reviewed the method of application		<u> </u>
1j.	Verified the kitchen is free of plumbing and ceiling leaks (signs include stains, discoloration, and damp areas)		
2.	FOOD HANDLING AND STORAGE		
2a.	Checked food preparation, cooking, and storage areas for signs of insects and vermin (for example, feces or remains)		۵
2b.	Stored leftovers in well-sealed containers with no traces of food on outside surfaces		
2c.	Ensured that food preparation, cooking, and storage practices are sanitary		
2d.	Disposed of food scraps properly and removed crumbs		
2e.	Cleaned counters with soap and water or a disinfectant (according to school policy)	۵	
2f.	Swept and wet mopped floors		
3.	WASTE MANAGEMENT		
3a.	Selected and placed waste in appropriate containers		
3b.	Ensured that containers' lids are securely closed		
	Separated food waste and food-contaminated items from other wastes, if possible		۵
3d.	Stored waste containers in a well-ventilated area		
	Ensured that dumpsters are properly located (away from air intake vents, operable windows, and food service doors in relation to prevailing winds)	<b>a</b>	Q

4.	DELIVERIES Yes Alo	N/A
4a.	Instructed vendors to avoid idling their engines during deliveries	
4b.	Posted a sign prohibiting vehicles from idling their engines in receiving areas	۵
4c.	Ensured that doors or air barriers are closed between receiving area and kitchen	



### **NOTES**



- 1. Read the IAQ
  Backgrounder and
  the Background
  Information for
  this checklist.
- 2. Keep the
  Background
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  future reference.
- 3. Complete the Checklist.
  - Check the "yes,"
     "no," or
     "not applicable"
     box beside each
     item. (A "no"
     response
     requires further
     attention.)
  - Make comments in the "Notes" section as necessary.
- 4. Return the checklist portion of this document to the IAQ Coordinator.

# Integrated Pest Management Checklist

Na	ame: Staffen Kogut			_
Sc	chool: John Barry Elementary School			
1	11.1	4		
K	oom or Area: Date Completed:	,	-	-
Si	ignature: Styphin M. Rogut			
_				
1.	OFFICIAL POLICY STATEMENT	/es	No	N/A
1a.	Developed or located the school's official policy statement for integrated	_/		
	pest management (IPM)	<b>Y</b>		u
_	DECIONATINO DECT MANIA CEMENT DOLEC	ý	ł.	
2.	DESIGNATING PEST MANAGEMENT ROLES	/		
	Assigned and trained a qualified person to be the pest manager	d		
	Involved decision makers in the IPM program	ĭ.		
2c.	Educated students and staff (the occupants of the building) about IPM	1	n	П
24	and asked them to keep their areas clean and free of clutter	<u></u>	<u> </u>	, "
zu.	at home		ď	
2e.	Developed a program to educate and train all IPM participants		Ø	
2f.	Included language about IPM into contracts with pest management	/		
	professionals	E.A		
2	SETTING PEST MANAGEMENT OBJECTIVES			
3a.	Set appropriate pest management objectives for school buildings (such as	,		
	preventing pests from interfering with students' learning environment and preserving the integrity of the building structure)	M	П	п
3h	Set appropriate pest management objectives for school grounds (such as	_ /	/	
50.	providing safe playing areas and the best athletic surfaces possible)	D/		
4.	INSPECTING, IDENTIFYING, AND MONITORING			
4a.	Inspected all buildings and grounds for pest evidence, entry points,	/		
	food, water, and harborage sites	D	a	0
4b.	Identified potential pest habitats in buildings and grounds		ū	
4c.	Pinpointed the source of any current pest problems	LNI /	<u>.</u>	
40.	Monitored to determine the extent of pest problems and to estimate pest populations	ď		
4e.	Population	_/	′ -	_
. •••	sanitation efforts) to prevent or resolve any pest problems	Ø		
Λf	Established a maniforing program that consists of routine inspections to			

estimate pest population levels and identify evidence of pests and

5	5. SETTING ACTION THRESHOLDS			
5	Evaluated all available data obtained through inspecting, identifying,     and monitoring	Yes	No	N/
5	b. Determined how many pests the school buildings, grounds, and	-/		_
5.	occupants can tolerate	d		
3(	c. Set action thresholds	Y		ū
6	. PREVENTIVE STRATEGIES			
	NDOOR SITES			
6a	a. Implemented appropriate strategies to prevent pests from inhabiting the following	owjn	g are	as:
	• Entryways	W/		
	Classrooms	Ф,		
	Gymnasiums	Ø		
	Locker rooms	Ο,		d
	Offices	d,		
	Staff lounges	M,		
	Bathrooms	0	0	
	Food preparation and serving areas	o/.		
	Rooms with extensive plumbing	W/		
	Maintenance areas	1		
	Other	छ		
ΩΙ	UTDOOR SITES			
	Implemented appropriate strategies to prevent pests from inhabiting the follo	<b>y</b>		20540
	• Playgrounds	Wing	garea	174000
	• Parking lots	3/		0
	• Lawns and athletic fields	٧,		
	• Lawns and athletic fields	7		0
	Teaching gardens or greenhouses     Loading docks	71		
	• Dumpsters	1/		
	Areas with ornamental shrubs and trees	1/4	0	
	• Other	M/		
	Cinci	71	O .	
7.	PESTICIDE USE AND STORAGE			
7a.	Explored alternative pest management methods before concluding that	/		
	pesticides were necessary	<b>v</b>	Q	
	Ensured that pest management professionals integrate IPM into their pest management methods		<u> </u>	
7c.	Identified the least toxic, target-specific chemical (or pesticide	,		
	formulation) that is the most effective to address the pest problem,	I	_	_
74	preferably as baitsand granules	3	u	u.
/u.	how to properly apply and handle these showingle	_	_	$\int$
7e	how to properly apply and handle these chemicals	ן נ	_	Z
,	pesticides whenever possible and only treated the obviously infested	1		
	plants in the area	1	٦.	
7f.	Used protective clothing or equipment when applying pesticides	1	7	<u>,                                    </u>
7g.	Placed all pesticides in tamper-resistant bait boxes or locations that are	a (	_	J
J	inaccessible to children and non-target species	1	ב	





7	DECTIONS LICE AND CTODAGE (		
	PESTICIDE USE AND STORAGE (cont.)		
7h.	runway of the box	No	N/A
7i.	Applied pesticides when occupants were not present or in areas where they would not be exposed to the chemicals	, 	0
7j.	Ensured that school occupants (students and staff) are notified of upcoming pesticide applications through posted notices and/or letters		_
7k.	Ensured that parents are notified of upcoming pesticide applications through letters	П	_
71.	Kept copies of current pesticide labels and information on pesticides easily accessible	n	_
7m.	Stored pesticides off site or in areas that are locked and accessible only to designated personnel.	, <u> </u>	ח
7n.	Ensured that storage areas are adequately ventilated and are located away from areas prone to flooding or where spills or leaks may contaminate	<u>.                                    </u>	_
70	the environment		0
	Ensured that pesticides are stored in their original containers and all lids are securely fastened	n	13
7q.	Ensured that air in the storage space cannot mix with the air in the central ventilation system	ٔ م	ū
8.	EVALUATING RESULTS AND RECORD KEEPING		
8a.	Ensured that accurate, up-to-date records of IPM practices and a pest management log for each property are kept	П	Д
8b.	Ensured that pesticide records necessary to meet all state, local, and school board requirements are maintained	_	
8c.	Ensured that each log book contains the following items:		_
	• Copy of the pest management plan		
	• Service schedules for maintenance of buildings and grounds		
	Current EPA-registered labels		
	• Current Material Safety Data Sheets (MSDS) for each pesticide project		

• Diagram noting the location of pest activity, traps, and bait stations .......

### **NOTES**

1 A - AVAILABLE GNOONE.

20 - POINT FOR FUTURE DISCUSSION 2E - DISCUSS DURING IAQ TEAM MEETING. 5B - GOAL IS ZERO PESTS.

GA - NO LOCKER ROOMS 70 - PESTICIDES ONLY APPLIED BY LICENSED PROPESSIONALS

7H - HANDLED BY PEST CONTROL COMPANY

8C - LOCATIONS DOCUMENTED ON SURVETUANCE SHEETS

# Integrated Pest Management

program. The law requires that the school system develop a registry of parents and staff that would like notification prior to application of a pesticide on school property. Meriden's Integrated Pest Management program entails some of the compliance with State law, the Meriden Public School system actively practices an Integrated Pest Management The Meriden Public School system places your child's safety above all else in operating its school facilities. In following procedures:

- 1. Buildings are visually inspected on a regular basis to determine if any infestation exists and to eliminate any condition that might be conducive to breeding or attracting of pests.
- 2. Corrective actions are taken immediately when there is a potential concern.
- Non-toxic solutions are utilized as a first course of action to abate any pest problem.
- When toxic measures (pesticides) must be used, the least toxic available product is utilized.
- 5. Chemical treatment is only performed by State licensed applicators.
- 6. Treatments, when necessary, are done during non-school hours.

Parents wishing to be placed on the school notification registry should indicate so by registering in their child's school



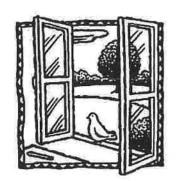
- Read the IAQ
   Backgrounder and the Background Information for this checklist.
- 2. Keep the
  Background
  Information and
  make a copy of
  this checklist for
  each ventilation
  unit in your school,
  as well as a
  copy for future
  reference.
- 3. Complete the Checklist.
  - Check the "yes," "no," or "not applicable" box beside each item. (A "no" response requires further attention.)
  - Make comments in the "Notes" section as necessary.
- 4. Return the checklist portion of this document to the IAQ Coordinator.

# **Ventilation Checklist**

Name: STOPHEN ROSUT		_
School: John Barry Elementary School		
Unit Ventilator/AHU No: AU		
Room or Area: ALL Date Completed: 4/2/24		
Room or Area:  AU  Date Completed: 4/2/24  Signature: Stiphin M. Kopt		_
Signature: Out 17. Notes		
1. OUTDOOR AIR INTAKES		
1a. Marked locations of all outdoor air intakes on a small floor plan (for example, a fire escape floor plan)	No □	N/A
1b. Ensured that the ventilation system was on and operating in "occupied" mode		
ACTIVITY 1: OBSTRUCTIONS	,	
1c. Ensured that outdoor air intakes are clear of obstructions, debris, clogs, or covers	ت ا	
ld. Installed corrective devices as necessary (e.g., if snowdrifts or leaves		_
frequently block an intake)		M
ACTIVITY 2: POLLUTANT SOURCES		
le. Checked ground-level intakes for pollutant sources (dumpsters, loading	′ _	ם
docks, and bus-idling areas)	ч	u
toilet or laboratory exhaust fans; middles; and mist from	r	
air-conditioning cooling towers)	, <b>u</b>	
lg. Resolved any problems with pollutant sources located near outdoor air intakes (e.g., relocated dumpster or extended exhaust pipe)		
ACTIVITY 3: AIRFLOW	,	
Ih. Obtained chemical smoke (or a small piece of tissue paper or light plastic) 💆	/ 0	
1i. Confirmed that outdoor air is entering the intake appropriately		۵
2. SYSTEM CLEANLINESS		
ACTIVITY 4: AIR FILTERS	/	
2a. Replaced filters per maintenance schedule		
2b. Shut off ventilation system fans while replacing filters (prevents dirt from blowing downstream)	<i>-</i> 0	
2c. Vacuumed filter areas before installing new filters		_
2d. Confirmed proper fit of filters to prevent air from bypassing (flowing	/	_
around) the air filter	. u	
commind proper instanguou of finers (correct direction for action)	_	_

### 2. SYSTEM CLEANLINESS (continued)

	CTIVITY 5: DRAIN PANS			
	Ensured that drain pans slant toward the drain (to prevent water from accumulating)	ď		
2g.	Cleaned drain pans	<b>1</b>		
2h.	Cleaned drain pans Checked drain pans for mold and mildew	<b>A</b>		
AC	CTIVITY 6: COILS	1		
2i.	Ensured that heating and cooling coils are clean	Z		
	CTIVITY 7: AIR-HANDLING UNITS, UNIT VENTILATORS		,	
	Ensured that the interior of air-handling unit(s) or unit ventilator (air-mixing chamber and fan blades) is clean	<b>a</b> /		
2k.	Ensured that ducts are clean	*		
AC	CTIVITY 8: MECHANICAL ROOMS	/		
21.	Checked mechanical room for unsanitary conditions, leaks, and spills	<b>A</b>		
2m	. Ensured that mechanical rooms and air-mixing chambers are free of trash, chemical products, and supplies	<b>~</b> /		
		_	•	J
	CONTROLS FOR OUTDOOR AIR SUPPLY	/		
3a.	Ensured that air dampers are at least partially open (minimum position)	₫ ,		
30.	Ensured that minimum position provides adequate outdoor air for occupants	4		
AC	TIVITY 9: CONTROLS INFORMATION			
3c.	Obtained and reviewed all design inside/outside temperature and humidity			
	requirements, controls specifications, as-built mechanical drawings,			′
	and controls operations manuals (often uniquely designed)	]	8	
AC	TIVITY 10: CLOCKS, TIMERS, SWITCHES	/		
3d.	Turned summer-winter switches to the correct position	য /	ū	
3e.	Turned summer-winter switches to the correct position	<b>a</b>		
3f.	Ensured that settings fit the actual schedule of building use (including night/weekend use)	4	a	
AC	TIVITY 11: CONTROL COMPONENTS			
3g.	Ensured appropriate system pressure by testing line pressure at both the			
	occupied (day) setting and the unoccupied (night) setting			ख
	Checked that the line dryer prevents moisture buildup	<b>그</b>		4
3i.	Replaced control system filters at the compressor inlet based on the compressor manufacturer's recommendation (for example, when you	_		<b>*/</b>
3j.	blow down the tank)	_		4
<i>J</i> J.	level (no leakage or obstructions)	ב		4
	TIVITY 12: OUTDOOR AIR DAMPERS	/		
3k.	Ensured that the outdoor air damper is visible for inspection	<b>T</b>		
31.	Ensured that the recirculating relief and/or exhaust dampers are visible for inspection			
3m.	Ensured that air temperature in the indoor area(s) served by each			
	outdoor air damper is within the normal operating range	J.Y	Ü	



NOTE: It is necessary to ensure that the damper is operating properly and within the normal range to continue.



3.	CONTROLS FOR OUTDOOR AIR SUPPLY (continued)		
3n.	Checked that the outdoor air damper fully closes within a few minutes of shutting off appropriate air handler	No	N/A
30.	Checked that the outdoor air damper opens (at least partially with no delay) when the air handler is turned on	۵	_
	If in heating mode, checked that the outdoor air damper goes to its minimum position (without completely closing) when the room thermostat is set to 85°F.  If in cooling mode, checked that the outdoor air damper goes to its minimum		
-	position (without completely closing) when the room thermostat is set to 60°F and mixed air thermostat is set to 45°F	0	Q
J1.	<ul> <li>The damper actuator links to the damper shaft, and any linkage set screws or bolts are tight</li></ul>	<u> </u>	Ø,
	<ul> <li>Electrical wire or pneumatic tubing connects to the damper actuator</li></ul>	0	B.
Pro	ceed to Activities 13–16 if the damper seems to be operating properly.		
	TIVITY 13: FREEZE STATS  Disconnected power to controls (for automatic reset only) to test continuity across terminals	<b>a</b>	4
3t.	Confirmed (if applicable) that depressing the manual reset button (usually red) trips the freeze stat (clicking sound indicates freeze stat was tripped)		۵
3u.	Assessed the feasibility of replacing all manual reset freeze-stats with automatic reset freeze-stats		
clos	TE: HVAC systems with water coils need protection from the cold. The freeze-stat se the outdoor air damper and disconnect the supply air when tripped. The typica ge is 35°F to 42°F.	may l trip	
	TIVITY 14: MIXED AIR THERMOSTATS	1	
	Ensured that the mixed air stat for heating mode is set no higher than 65°F	ے,	D
3w.	Ensured that the mixed air stat for cooling mode is set no lower than the room thermostat setting	o	ם
AC	TIVITY 15: ECONOMIZERS		
	Confirmed proper economizer settings based on design specifications or local practices		<b>5</b>
NO	TE: The dry-bulb is typically set at 65°F or lower.		,
3y. 3z.	Checked that sensor on the economizer is shielded from direct sunlight   Ensured that dampers operate properly (for outside air, return air,	<b>Q</b>	e¥ _/
	exhaust/relief air, and recirculated air), per the design specifications		Y
loa Dry and	TE: Economizers use varying amounts of cool outdoor air to assist with the cooled of the room or rooms. There are two types of economizers, dry-bulb and enthalpy-bulb economizers vary the amount of outdoor air based on outdoor temperatured enthalpy economizers vary the amount of outdoor air based on outdoor temperatured thumidity level.	oy. :,	

3.	CONTROLS FOR OUTDOOR AIR SUPPLY (continued)		
	ETIVITY 16: FANS  a. Ensured that all fans (supply fans and associated return or relief fans) that move outside air indoors continuously operate during occupied hours (even when room thermostat is satisfied)		N/A
NO ens	TE: If fan shuts off when the thermostat is satisfied, adjust control cycle as necess wre sufficient outdoor air supply.	ary I	to
4.	AIR DISTRIBUTION		
	TIVITY 17: AIR DISTRIBUTION		
4a.	Ensured that supply and return air pathways in the existing ventilation system perform as required		
4b.	Ensured that passive gravity relief ventilation systems and transfer grilles between rooms and corridors are functioning	_	<u> </u>
NO proj	TE: If ventilation system is closed or blocked to meet current fire codes, consult we fessional engineer for remedies.	ith a	
	Made sure every occupied space has supply of outdoor air (mechanical system or operable windows)	<u> </u>	۵
	Ensured that supply and fetting vents are open and unblocked	u	Ч
and	TE: If outlets have been blocked intentionally to correct drafts or discomfort, inve correct the cause of the discomfort and reopen the vents.	stiga	te
	Modified the HVAC system to supply outside air to areas without an outdoor air supply		Ø
	Modified existing HVAC systems to incorporate any room or zone layout and population changes		
4g.	Moved all barriers (for example, room dividers, large free-standing blackboards or displays, bookshelves) that could block movement of air in the room, especially those blocking air vents	<u>-</u>	В
4h.	Ensured that unit ventilators are quiet enough to accommodate classroom activities		_
	Ensured that classrooms are free of uncomfortable drafts produced by air from supply terminals	0	0
AC.	TIVITY 18: PRESSURIZATION IN BUILDINGS		
maii	TE: To prevent infiltration of outdoor pollutants, the ventilation system is designed ntain positive pressurization in the building. Therefore, ensure that the system, inc exhaust fans, is operating on the "occupied" cycle when doing this activity.	l to ludir	ıg
	Ensured that air flows out of the building (using chemical smoke) through windows, doors, or other cracks and holes in exterior wall (for example, floor joints, pipe openings)	<b>v</b>	•
5. E	EXHAUST SYSTEMS		
	Checked (using chemical smoke) that air flows into exhaust fan grille(s)		
	ns are running but air is not flowing toward the exhaust intake, check for the follo	wing	ī
·	<ul> <li>Inoperable dampers</li> <li>Obstructed, leaky, or disconnected ductwork</li> <li>Undersized or improperly installed fan</li> <li>Broken fan belt</li> </ul>	•	



### 5. EXHAUST SYSTEMS (continued)

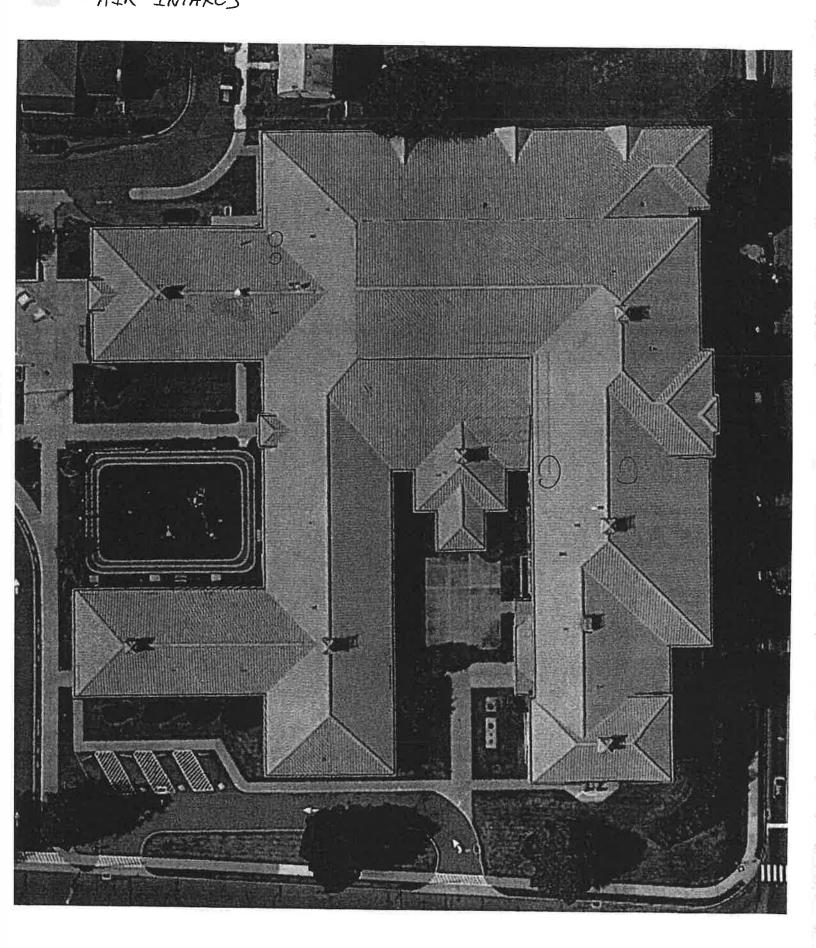
	ACTIVITY 20: EXHAUST AIRFLOW  NOTE: Prevent migration of indoor contaminants from areas such as bathrooms, kitch	chens,
	and labs by keeping them under negative pressure (as compared to surrounding spaces).  5b. Checked (using chemical smoke) that air is drawn into the room from adjacent spaces	No N/
	Stand outside the room with the door slightly open while checking airflow high and le the door opening (see "How to Measure Airflow").	ow in
	5c. Ensured that air is flowing toward the exhaust intake	0 0
	ACTIVITY 21: EXHAUST DUCTWORK  5d. Checked that the exhaust ductwork downstream of the exhaust fan (which is under positive pressure) is sealed and in good condition	
	6. QUANTITY OF OUTDOOR AIR	
	ACTIVITY 22: OUTDOOR AIR MEASUREMENTS AND CALCULATIONS	
	NOTE: Refer to "How to Measure Airflow" for techniques.	
	6a. Measured the quantity of outdoor air supplied (22a) to each ventilation unit	
	of the existing quantity of outdoor air supply (22a) by the number of occupants (22b) to determine the existing quantity of outdoor air supply per person (22c)	
	ACTIVITY 23: ACCEPTABLE LEVELS OF OUTDOOR AIR QUANTITIES  6d. Compared the existing outdoor air per person (22c) to the recommended levels in Table 1	
NOTES 1_1 - No CORRECTIVE	DEVICES NEDED AT THIS TIME,	
1 H - USED TISSUE 2 C - AS NODOSO	R IF AN ISSUE WE HAVE A COMPANY CLOSU CO	nTS.
	CLEAN TO EXTENT WE CAN SEE.	
3 A+B-CONTROLLED 3 D-F-HANDLED BY 3 G-J-NO FNUEM 3 R-DAMPORS MOD 3 X-Z NO ECONO	BY CTC, CTC ATTCS VE DOMITORS	
4 F-L HIN CONDI	TIONING ADDOD TO UPSTATES ROOMS	

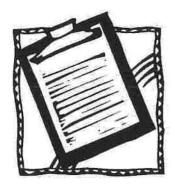
**NOTES** 

4 J - DON'T USE CHEMICAL SMOKE

5B - USED A TISSUE TO CHECK

O - LOCATIONS OF AIR HANDLERS'





# Walkthrough Inspection Checklist

Name:	STEPHEN	KOGUT	
School:	John Barry Ele	mentary School	
Room or	Area: All	Date Completed:	4/2/24
Signature	Stylm 1	4. Kojut	

### 1. GROUND LEVEL Yes/No N/A Instructions 1. Read the IAQ Backgrounder and 1c. Checked for nests and droppings near outdoor air intakes ..... the Background 1d. Determined that dumpsters are located away from doors, windows, and Information for outdoor air intakes ...... this checklist. 1e. Checked potential sources of air contaminants near the building 2. Keep the Background 1f. Ensured that vehicles avoid idling near outdoor air intakes ...... Information and 1g. Minimized pesticide application ..... make a copy of 1h. Ensured that there is proper drainage away from the building (including the checklist for roof downspouts) ..... future reference. 1i. Ensured that sprinklers spray away from the building and outdoor 3. Complete the Checklist. li. Ensured that walk-off mats are used at exterior entrances and that they are cleaned regularly ...... Check the "ves." "no," or "not applicable" 2. ROOF box beside each While on the roof, consider inspecting the HVAC units (use the Ventilation Checklist). item. (A "no" response requires further attention.) 2c. Checked that ventilation units operate properly (air flows in)...... Make comments 2d. Ensured that exhaust fans operate properly (air flows out)...... in the "Notes" 2e. Ensured that air intakes remain open, even at minimum setting ...... section as 2f. Checked for nests and droppings near outdoor air intakes ...... necessary. 2g. Ensured that air from plumbing stacks and exhaust outlets flows away from outdoor air intakes 4. Return the checklist portion of this document to the 3. ATTIC IAQ Coordinator. 3a. Checked for evidence of roof and plumbing leaks...... 3b. Checked for birds and animal nests.... 4. GENERAL CONSIDERATIONS 4a. Ensured that temperature and humidity are maintained within ассерtable ranges ...... 🗹 4b. Ensured that no obstructions exist in supply and exhaust vents ...... 4c. Checked for odors

4.	GENERAL CONSIDERATIONS (continued)  Yes No N/A
	Checked for signs of water damage
	Checked for evidence of pests and obvious food sources
5.	
5a. 5b.	Ensured that bathrooms and restrooms have operating exhaust fans
	Water is poured down floor drains once per week (approx. 1 quart of water)
	Water is poured into sinks at least once per week (about 2 cups of water)   Toilets are flushed at least once per week
6.	MAINTENANCE SUPPLIES
	Ensured that chemicals are used only with adequate ventilation and when
6b.	building is unoccupied
	properly
6c.	Ensured that nower equipment, like enough owers and lower moviers, hours
000	been serviced and maintained according to manufacturers' guidelines
7.	COMBUSTION APPLIANCES
7a.	Checked for combustion gas and fuel odors
7b.	Checked for combustion gas and fuel odors
7d.	Ensured there is no soot on inside or outside of flue components
	OTHER
	Checked for peeling and flaking paint (if the building was built before
	1980, this could be a lead hazard)
8Ъ.	Determined date of last radon test
NC	TES 1 f - GOING TO PUT UP NEW 'NO ICCING' STENS.
	DE - CONTROLLED BY BMS SYSTEM.
7 (	GA - CONTINUALLY CLEANING THROUGHOUT THE DAY.
•	8B-DUE + SCHEDULED FOR 2024.



- 1. Read the IAQ
  Backgrounder and
  the Background
  Information for
  this checklist.
- 2. Keep the
  Background
  Information and
  make a copy of
  the checklist for
  future reference.
- 3. Complete the Checklist.
  - Check the "yes," "no," or "not applicable" box beside each item. (A "no" response requires further attention.)
  - Make comments in the "Notes" section as necessary.
- 4. Return the checklist portion of this document to the IAQ Coordinator.

# **Waste Management Checklist**

Name: S	ophen Koa	П	
School: Joh	n Barry Elementa	ary School	
Room or Area:	ALL	Date Completed:	4/2/24
	Stighm M. K	ont	

1.	WASTE MANAGEMENT	Yes	No	N/A
1a	Ensured that waste containers are appropriate for use (for example, food waste containers should have lids)	.⊌,		
16	. Ensured that waste containers are lined	, র্ম্ব		
1c	Ensured that waste from art, science, vocational classes, etc., are handled separately	.0/	, ,	
1d	. Labeled recycling bins clearly			
le	. Ensured number of bins and dumpsters is adequate	. W		
1f.	Ensured appropriate location of dumpsters (i.e., away from air intakes, doors, and operable windows in relation to prevailing winds)	. 🗹	· • •	
1g	. Ensured waste containers are emptied regularly	.ď/	<i>,</i> $\Box$	
lh	. Ensured appropriate waste removal schedule	. <b>T</b>		ر 🛭
1i.	Ensured waste is stored in a well-ventilated room	. 🗆		Θ',
lj.	Ensured any exhaust fans in the room are operating properly	Ο,		<b>'</b>
1k	. Checked waste storage areas for odors, contaminants, or signs of vermin	Ω.		

### **NOTES**

IJ-K-NO WASTE IS STORED INDOORS,