

Uniform Indoor Air Quality Inspection and Evaluation Program

Reporting Year: 2024

District: Meriden Public Schools

School: Israel Putnam Elementary School

133 Parker Ave, Meriden, CT 06450

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 "Israel Putnam 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 https://putnam.meridenk12.org/news/tools-for-schools/.

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.

7. 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 Israel Putnam 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.



- 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.
- Return the checklist portion of this document to the IAQ Coordinator.

Building and Grounds Maintenance Checklist

Name: STEPHEN KOGUT	•
School: Israel Putnam Elementar	y School
Room or Area: ALL	Date Completed: 3/20/24
Signature: Styphen M. Kog	wt

1.	BUILDING MAINTENANCE SUPPLIES Yes	No	N/A
la.	Developed appropriate procedures and stocked supplies for spill control	0	
1b.	Reviewed supply labels	ш	
lc.	Ensured that air from chemical and trash storage areas vents to the outdoors	Ø	
	Stored chemical products and supplies in sealed, clearly labeled containers	, , a	-
le.	Researched and selected the safest products available		
lf.	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		
1h.	Substituted less- or non-hazardous materials (where possible)		
1i.	Scheduled work involving odorous or hazardous chemicals for periods when the school is unoccupied		۵
lj.	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)		
2b.	Ensured that supplies are used and stored according to manufacturers' instructions		۵
	from supplies		
2d.	Reviewed and followed manufacturers' guidelines for maintenance	/ 0	
2e.	Reviewed and followed manufacturers' guidelines for maintenance		
2f.	Stored chemical products and supplies in sealed, clearly-labeled containers	<i></i>	٥
2g.	Ensured that chemicals, chemical-containing wastes, and containers are disposed of according to manufacturers' instructions	1	۵
3.	DUST CONTROL	,	
3a.	Installed and maintained barrier mats for entrances	/ 0	
3b	Used high efficiency vacuum bags	, 0	
3c	Used proper dusting techniques	0	
3d	Wrapped feather dusters with a dust cloth	/ a	
	Cleaned air return grilles and air sunnby yents		

4.	FLOOR CLEANING Y	es	No	N/A
4b.	Established and followed schedule for vacuuming and mopping floors Cleaned spills on floors promptly (as necessary)			
5 .	DRAIN TRAPS			1
5a. 5b. 5c.	Poured water down floor drains once per week (about 1 quart of water) Ran water in sinks at least once per week (about 2 cups of water) Flushed toilets once each week (if not used regularly)	A CALL	000	8
	MOISTURE, LEAKS, AND SPILLS	,		
6a.	Checked for moldy odors	Q		u
6b.	Inspected ceiling tiles, floors, and walls for leaks or discoloration (may indicate periodic leaks)			
	Checked areas where moisture is commonly generated (e.g., kitchens, locker rooms, and bathrooms)	•	Q	۵
	condensate			
	Checked that indoor surfaces of exterior walls and cold water pipes are free of condensate	Z	ū	
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	অ	0000	0000
-	COMBUSTION APPLIANCES	1		
7b. 7с.	Checked for odors from combustion appliances			0
	PEST CONTROL	1		
8a.	Completed the Integrated Pest Management Checklist	Q		

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 - 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.

Food Service Checklist

			-
Na	me: Dan Shreliza		
Sch	hool: Israel Putnam Elementary School		
	om or Area; Caleria/Nitum Date Completed: 4/2/20	4	
	1		
Sig	gnature: William SMC MI	_	—,
_	COOKING AREA		
	COOKING AREA		
la.	Determined that local exhaust fans operate properly (note if fans are excessively noisy)		N/
1b.	Checked for odors near cooking, preparation, and eating areas (NO1940).		
1c.	Ensured that exhaust fans are used whenever cooking, washing dishes, and cleaning NOISUS	П	
14	Determined that gas appliances function properly	٥	
	Verified that gas appliances are vented outdoors	~	
	Ensured there are no combustion gas or natural gas odors, leaks, back-		
	drafting, or headaches when gas appliances are used		
1g.	Ensured that kitchen is clean after use		
1h.	Checked for signs of microbiological growth in the kitchen, including the upper walls and ceiling (for example, mold, slime, and algae)		C
1i.	Selected biocides registered by EPA (if required), followed the		
	manufacturer's directions for use, and carefully reviewed the		
1:	weithod of application	J	_
1j.	stains, discoloration, and damp areas)		C
2.	FOOD HANDLING AND STORAGE		
29	Checked food preparation, cooking, and storage areas for signs of insects		
24.	and vermin (for example, feces or remains)		-
2b.	Stored leftovers in well-sealed containers with no traces of food on outside		
_	surfaces	/ -	[
	Ensured that food preparation, cooking, and storage practices are sanitary		[
2a.	Disposed of food scraps properly and removed crumbs	_	
20,	school policy) Sanity et Stay 15 present	<u> </u>	C
2f.	Cleaned counters with soap and water or a disinfectant (according to school policy). San truet Stay Is present Swept and wet mopped floors. Are Cuan		C
3.	WASTE MANAGEMENT	,	
3a.	Selected and placed waste in appropriate containers	, a	. (
3Ъ.	Ensured that containers' lids are securely closed	. ۵	Į
3c.	Separated food waste and food-contaminated items from other wastes,	/, _	
	if possible	/ 🗀	(
	Stored waste containers in a well-ventilated area	/	l (
se.	Ensured that dumpsters are properly located (away from air intake vents, operable windows, and food service doors in relation to		

4.	DELIVERIES	Ves	Nο	N/A	The state of the s
4a.	Instructed vendors to avoid idling their engines during deliveries			Ö	
4b.	Posted a sign prohibiting vehicles from idling their engines in receiving areas \$190\$ by the door.	v			
4c.	Ensured that doors or air barriers are closed between receiving area and kitchen	d	۵	o	



NOTES



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- 3. Complete the Checklist.
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 - Make comments in the "Notes" section as necessary.
- Return the checklist portion of this document to the IAQ Coordinator.

Integrated Pest Management Checklist

Г			
	Name: STEPHEN ROGUT		
	School: Israel Putnam Elementary School		
	Room or Area: AU Date Completed: 3/20/24	1	
- 1	0+1 11 1) +		
1	Signature: Shiphin 19. Rojut		-4-51
L			
1	. OFFICIAL POLICY STATEMENT		
1	a. Developed or located the school's official policy statement for integrated	No	N/A
•	pest management (IPM)		
2	. DESIGNATING PEST MANAGEMENT ROLES		
2	a. Assigned and trained a qualified person to be the pest manager		
	b. Involved decision makers in the IPM program		
2	c. Educated students and staff (the occupants of the building) about IPM and asked them to keep their areas clean and free of clutter	/ _	П
2	d. Encouraged parents to learn about IPM practices and implement them		
	at home	<u>, v</u>	Q
	e. Developed a program to educate and train all IPM participants	0	
2	f. Included language about IPM into contracts with pest management professionals		П
		_	_
3	. SETTING PEST MANAGEMENT OBJECTIVES		
3	a. Set appropriate pest management objectives for school buildings (such as		
	preventing pests from interfering with students' learning environment		_
31	and preserving the integrity of the building structure)	, 0	u
J	providing safe playing areas and the best athletic surfaces possible)		۵
4	. INSPECTING, IDENTIFYING, AND MONITORING		
48	. Inspected all buildings and grounds for pest evidence, entry points,	/	
41	food, water, and harborage sites		
	o. Identified potential pest habitats in buildings and grounds		
	Pinpointed the source of any current pest problems	ū	
	populations		
4e	Developed plans to modify habitat (for example, exclusion, repair, and		
4f	sanitation efforts) to prevent or resolve any pest problems	u	
	estimate pest population levels and identify evidence of pests and	/	
	potential habitat		

5.	SETTING ACTION THRESHOLDS		
5a.	Evaluated all available data obtained through inspecting, identifying, and monitoring	No	N/A
	Determined how many pests the school buildings, grounds, and occupants can tolerate	۵	
5c.	Set action thresholds		۵
6.	PREVENTIVE STRATEGIES		
	DOOR SITES		
6a.	Implemented appropriate strategies to prevent pests from inhabiting the following	ig are	eas:
	• Entryways		
	• Classrooms		
	• Gymnasiums		
	• Locker rooms		W
	• Offices		
	• Staff lounges		
	• Bathrooms		
	• Food preparation and serving areas		
	• Rooms with extensive plumbing	, 0	
	• Maintenance areas		a
	• Other		
ου	TDOOR SITES		
6b.		ng ar	
	• Playgrounds	П	
	• Parking lots	_	0
	• Lawns and athletic fields	. 0	
	• Teaching gardens or greenhouses		
	• Loading docks	-	۵
	• Dumpsters	<u> </u>	0
	• Areas with ornamental shrubs and trees		
	• Other		
7.	PESTICIDE USE AND STORAGE	,	
7a.	Explored alternative pest management methods before concluding that	, П	а
~ 1	pesticides were necessary	, –	_
	pest management methods	Q	ū
7c.	Identified the least toxic, target-specific chemical (or pesticide	,	
	formulation) that is the most effective to address the pest problem,	П	
- 1	preferably as baitsand granules	_	
	how to properly apply and handle these chemicals		
7e.	Used spot-treatment (or bait, crack, and crevice applications) to apply	,	
	pesticides whenever possible and only treated the obviously infested	Z D	
-	plants in the area		
7f.		/	_
/g.	Placed all pesticides in tamper-resistant bait boxes or locations that are inaccessible to children and non-target species		
	maccessing to children and non-target species	Ţ	





7.	PESTICIDE USE AND STORAGE (cont.)		
7h.	Locked or fastened lids of all bait boxes and placed bait away from the 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		
7j.	Ensured that school occupants (students and staff) are notified of upcoming pesticide applications through posted notices and/or letters		۵
7k.	Ensured that parents are notified of upcoming pesticide applications through letters		
71.	Kept copies of current pesticide labels and information on pesticides easily accessible	<i>'</i>	ū
7m.	Stored pesticides off site or in areas that are locked and accessible only to designated personnel	0	
7n.	Ensured that storage areas are adequately ventilated and are located away from areas prone to flooding or where spills or leaks may contaminate the environment	/	п
7-			n
	Ensured that flammable liquids are stored away from ignition sources	, n	
7q.	Ensured that air in the storage space cannot mix with the air in the central ventilation system		0
8.	EVALUATING RESULTS AND RECORD KEEPING	2	
8a.	Ensured that accurate, up-to-date records of IPM practices and a pest management log for each property are kept		0
8b.	Ensured that pesticide records necessary to meet all state, local, and school board requirements are maintained		О
8c.	Ensured that each log book contains the following items:	/	
	• Copy of the pest management plan	,0	
	• Service schedules for maintenance of buildings and grounds		
	Current EPA-registered labels		
	• Current Material Safety Data Sheets (MSDS) for each pesticide project	/0	
	• Pest surveillance data sheets	0	
	• Diagram noting the location of pest activity, traps, and bait stations	Ø	

NOTES

1(A) - IPM POLICY AVAILABLE ONLINE
2(D) - GOOD POINT FOR FUTURE DISCUSSION WITH PARENTS.
7(H) - BALT BOXES NOT NEEDED AT THIS TIME

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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.

3. Non-toxic solutions are utilized as a first course of action to abate any pest problem.

4. 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

Adult & Continuing

Education

Arts

Bilingual and ESOL Department

Business Office

Curriculum and Instructional Technology

Equity and Instruction

Facilities

Green Cleaning

Integrated Pest Management COVID-19 Resources

Family-School Liaison

Food and Nutrition Services

Pupil Personnel Programs Development

Personnel and Talent

Research and Evaluation

Teaching and Innovation

Finance and Operations

Transportation



- 1. 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: STEPHEN ROGUT	_	
School: Israel Putnam Elementary School		_
Unit Ventilator/AHU No: ALL		_
Room or Area: Au Date Completed: 3/20/24		
0+1 M D F		
Signature: Syphon 1. Roya	_	-
L		
1. OUTDOOR AIR INTAKES		
	Nα	N/Δ
THE RESERVE AND THE PROPERTY OF THE PROPERTY O		
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 🗹		
1d. Installed corrective devices as necessary (e.g., if snowdrifts or leaves	_	10/
frequently block an intake)	u	123
ACTIVITY 2: POLLUTANT SOURCES		
le. Checked ground-level intakes for pollutant sources (dumpsters, loading		
docks, and bus-idling areas)		
If. Checked rooftop intakes for pollutant sources (plumbing vents; kitchen,	/	
toilet, or laboratory exhaust fans; puddles; and mist from air-conditioning cooling towers)	ū	
lg. Resolved any problems with pollutant sources located near outdoor air		
intakes (e.g., relocated dumpster or extended exhaust pipe)		V
ACTIVITY 3: AIRFLOW		
1h. Obtained chemical smoke (or a small piece of tissue paper or light plastic) \(\sigma\)		
li. Confirmed that outdoor air is entering the intake appropriately		
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)		
2d. Confirmed proper fit of filters to prevent air from bypassing (flowing	_	_
around) the air filter		
2e. Confirmed proper installation of filters (correct direction for airflow)		

2. SYSTEM CLEANLINESS (continued) **ACTIVITY 5: DRAIN PANS** Ensured that drain pans slant toward the drain (to prevent water from accumulating) Cleaned drain pans 2f. Ensured that drain pans slant toward the drain (to prevent water from



2g. Cleaned drain pans		
ACTIVITY 6: COILS 2i. Ensured that heating and cooling coils are clean	0	۵
ACTIVITY 7: AIR-HANDLING UNITS, UNIT VENTILATORS 2j. Ensured that the interior of air-handling unit(s) or unit ventilator (air-mixing chamber and fan blades) is clean	\ 0 0	0
ACTIVITY 8: MECHANICAL ROOMS 21. Checked mechanical room for unsanitary conditions, leaks, and spills 2m. Ensured that mechanical rooms and air-mixing chambers are free of trash, chemical products, and supplies		<u> </u>
3. CONTROLS FOR OUTDOOR AIR SUPPLY		
3a. Ensured that air dampers are at least partially open (minimum position) 3b. Ensured that minimum position provides adequate outdoor air for occupants	0	٥
ACTIVITY 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)		,
ACTIVITY 10: CLOCKS, TIMERS, SWITCHES 3d. Turned summer-winter switches to the correct position	0 0	
night/weekend use)	ш	ш
ACTIVITY 11: CONTROL COMPONENTS 3g. Ensured appropriate system pressure by testing line pressure at both the occupied (day) setting and the unoccupied (night) setting		
compressor manufacturer's recommendation (for example, when you blow down the tank)	<u> </u>	
level (no leakage or obstructions)	u	ت
ACTIVITY 12: OUTDOOR AIR DAMPERS 3k. Ensured that the outdoor air damper is visible for inspection	۵	
for inspection		
outdoor air damper is within the normal operating range		

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
	Checked that the outdoor air damper opens (at least partially with no delay) when the air handler is turned on	' •	<u> </u>
	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	ď	0
	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	V	a
3r.	If the outdoor air damper does not move, confirmed the following items: • The damper actuator links to the damper shaft, and any linkage set	П	
	screws or bolts are tight		4
	• Electrical wire or pneumatic tubing connects to the damper actuator		
	• The outside air thermostat(s) is functioning properly (e.g., in the right	_	
	location, calibrated correctly)		Q.
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	а	¥
OR			
3t.	Confirmed (if applicable) that depressing the manual reset button (usually red) trips the freeze stat (clicking sound indicates freeze stat was tripped)	/	
3u.	Assessed the feasibility of replacing all manual reset freeze-stats with automatic reset freeze-stats	/	0
clos	TE: HVAC systems with water coils need protection from the cold. The freeze-sta e the outdoor air damper and disconnect the supply air when tripped. The typica ge is 35°F to 42°F.		
AC'	FIVITY 14: MIXED AIR THERMOSTATS		
	Ensured that the mixed air stat for heating mode is set no higher than 65°F		۵
3w.	Ensured that the mixed air stat for cooling mode is set no lower		
	than the room thermostat setting		
AC'	FIVITY 15: ECONOMIZERS		
3x.	Confirmed proper economizer settings based on design specifications or local practices	۵	A
NO	E: The dry-bulb is typically set at 65°F or lower.		
	Checked that sensor on the economizer is shielded from direct sunlight Ensured that dampers operate properly (for outside air, return air,		ø
•	exhaust/relief air, and recirculated air), per the design specifications		Q
load Dry- and	E: Economizers use varying amounts of cool outdoor air to assist with the cool of the room or rooms. There are two types of economizers, dry-bulb and enthally bulb economizers vary the amount of outdoor air based on outdoor temperature enthalpy economizers vary the amount of outdoor air based on outdoor temperature humidity level.	ру. e,	

3. CONTROLS FOR OUTDOOR AIR SUPPLY (continued) **ACTIVITY 16: FANS** 3aa. Ensured that all fans (supply fans and associated return or relief fans) that move outside air indoors continuously operate during occupied Yes No N/A hours (even when room thermostat is satisfied) NOTE: If fan shuts off when the thermostat is satisfied, adjust control cycle as necessary to ensure sufficient outdoor air supply. 4. AIR DISTRIBUTION **ACTIVITY 17: AIR DISTRIBUTION** 4a. Ensured that supply and return air pathways in the existing ventilation system, 4b. Ensured that passive gravity relief ventilation systems and transfer grilles between rooms and corridors are functioning NOTE: If ventilation system is closed or blocked to meet current fire codes, consult with a professional engineer for remedies. 4c. Made sure every occupied space has supply of outdoor air (mechanical system or operable windows) 4d. Ensured that supply and return vents are open and unblocked NOTE: If outlets have been blocked intentionally to correct drafts or discomfort, investigate and correct the cause of the discomfort and reopen the vents. 4e. Modified the HVAC system to supply outside air to areas without an outdoor air supply 🖸 4f. 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 4h. Ensured that unit ventilators are quiet enough to accommodate classroom \Box 4i. Ensured that classrooms are free of uncomfortable drafts produced by air from supply terminals **ACTIVITY 18: PRESSURIZATION IN BUILDINGS** NOTE: To prevent infiltration of outdoor pollutants, the ventilation system is designed to maintain positive pressurization in the building. Therefore, ensure that the system, including any exhaust fans, is operating on the "occupied" cycle when doing this activity. 4j. 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) 5. EXHAUST SYSTEMS **ACTIVITY 19: EXHAUST FAN OPERATION** 5a. Checked (using chemical smoke) that air flows into exhaust fan grille(s) 🗹 If fans are running but air is not flowing toward the exhaust intake, check for the following: Inoperable dampers · Obstructed, leaky, or disconnected ductwork

· Undersized or improperly installed fan

Broken fan belt

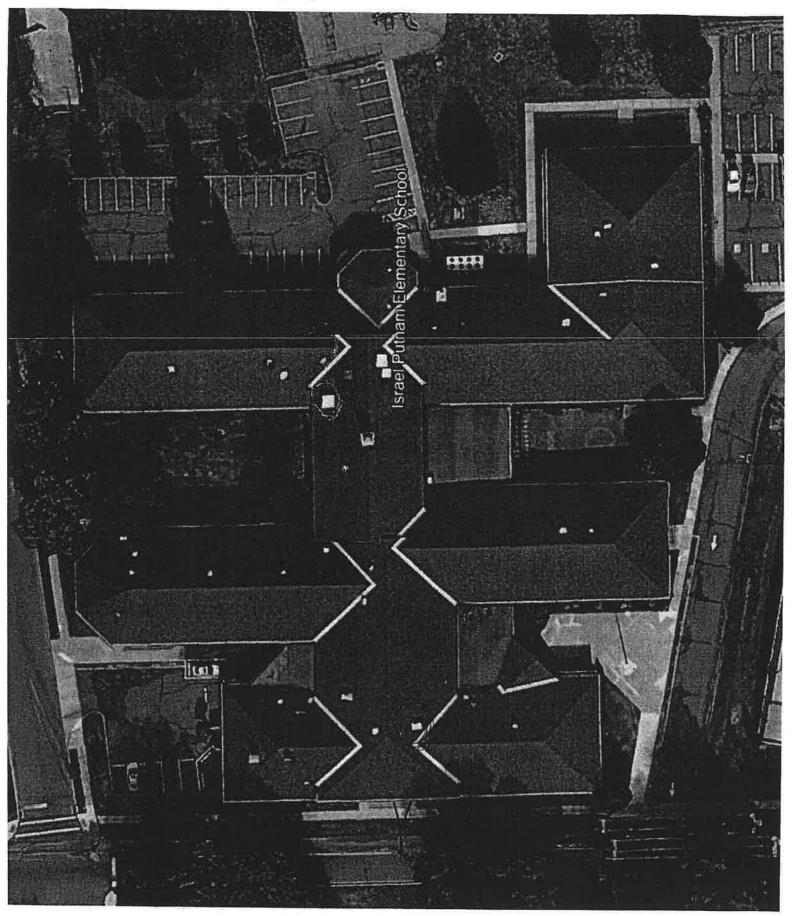


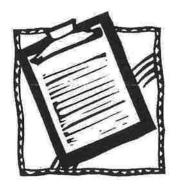


5. EXHAUST SYSTEMS (continued)

	ACTIVITY 20: EXHAUST AIRFLOW
	NOTE: Prevent migration of indoor contaminants from areas such as bathrooms, kitchens, 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
	Stand outside the room with the door slightly open while checking airflow high and low in the door opening (see "How to Measure Airflow").
	5c. Ensured that air is flowing toward the exhaust intake
	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
	under consideration
	6c. Divided 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
	6e. Corrected problems with ventilation units that supplied inadequate quantities of outdoor air to ensure that outdoor air quantities (22c) meet the recommended levels in Table 1
2 (K) CHOCK 3 (B) CTC 3 (G-J) NO 3 (S) WE HA 3 (U) NOT FO 3 (X-Z) NO 4 (J) USEN	STRUCTIONS REPLACED 3 TIMES/VEAR. DUCTS TO EXTEND WE CAN SEE. LHECKS. PNUEMATIC SYSTEM, VE MANUAL FREEZE STATS, VASIBLE AT THIS TIME, ECONOMIZERS A TISSUE INSTEAD OF SMOKE. A TISSUE INSTEAD OF SMOKE. IS WILL BE DONE WHEN SYSTEM IS COMMISTONED.

LOCATIONS OP REAR





- 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.

Walkthrough Inspection Checklist

Name:	STEPHEN	KOGUT	-	
School:	Israel Putnam	Elementa	ry School	
Room or A	0.1		Date Completed:	3/20/24
	Stephen		it	

	ROUND LEVEL	Yes, N	lo	N/A
la. En	sured that ventilation units operate properly	⊠		0/
1b. En	sured there are no obstructions blocking air intakes	🗀		4 /
1c. Ch	ecked for nests and droppings near outdoor air intakes	□		Z
out	termined that dumpsters are located away from doors, windows, and door air intakes	o	۵	
(ch	ecked potential sources of air contaminants near the building imneys, stacks, industrial plants, exhaust from nearby buildings)	⊈∕	a	0
1f En	sured that vehicles avoid idling near outdoor air intakes	ر 🖭		
1g. Mi	nimized pesticide application	Y		
1h. En	sured that there is proper drainage away from the building (including of downspouts)		a	0
li. En air	sured that sprinklers spray away from the building and outdoor intakes	0		0
200	sured that walk-off mats are used at exterior entrances and that y are cleaned regularly	,	0	
2. RC	OOF			
	n the roof, consider inspecting the HVAC units (use the Ventilation Che	/		
2a. En	sured that the roof is in good condition	<u>u</u>		
2b. Ch	ecked for evidence of water ponding	<u>v</u>	u	
2c. Ch	ecked that ventilation units operate properly (air flows in)	7	0	_
2d. En	sured that exhaust fans operate properly (air flows out)		0	_
2e. En	sured that air intakes remain open, even at minimum setting	Z		
2f. Ch	ecked for nests and droppings near outdoor air intakes	u	·	_
2g. En	sured that air from plumbing stacks and exhaust outlets flows away m outdoor air intakes	🖬	ū	۵
3. A1	and the second s	/		
3a. Ch	ecked for evidence of roof and plumbing leaks	ਓ/		
3b. Ch	ecked for birds and animal nests	Ø		
4. G	ENERAL CONSIDERATIONS			
ace	sured that temperature and humidity are maintained within ceptable ranges	d/	/_	۵
4b. En	sured that no obstructions exist in supply and exhaust vents	🛂 🗸	a	_
4c. Ch	ecked for odors	T O/		
4d. Ch	ecked for signs of mold and mildew growth	D Z		

4.	GENERAL CONSIDERATIONS (continued) Yes/No N/A
4f.	Checked for signs of water damage
5.	BATHROOMS AND GENERAL PLUMBING
5a. 5b.	Ensured that bathrooms and restrooms have operating exhaust fans
6.	MAINTENANCE SUPPLIES
6b. 6с.	Ensured that chemicals are used only with adequate ventilation and when building is unoccupied
7.	COMBUSTION APPLIANCES
7b. 7c.	Checked for combustion gas and fuel odors
8.	OTHER
	Checked for peeling and flaking paint (if the building was built before 1980, this could be a lead hazard) Determined date of last radon test
NC	THES I (B) NO GROWN LEVER ATR INTAKES. G(A) BUTLOTING IS CLEANED THROUGHOUT DAY WITH GREEN PRODUCTS G(B) NO TRASH STORED INSIDE 8(B) RADON TESTING BEING DONE IN JULY 2024.



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 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:	STEPHEN	KOGUT)		
School: Israel Putnam Elementary School					
Room or	Area: ALL		Date Completed:	3/20/24	
Signature: Styphm M. Kogut					

1.	WASTE MANAGEMENT	es	No	N/A
1a.	Ensured that waste containers are appropriate for use (for example, food waste containers should have lids)	4		
lb.	Ensured that waste containers are lined	4		
1c.	Ensured that waste from art, science, vocational classes, etc., are handled separately	⊴/		
1d.	Labeled recycling bins clearly	1		
1e.	Ensured number of bins and dumpsters is adequate	প্র		
1f.	Ensured appropriate location of dumpsters (i.e., away from air intakes, doors, and operable windows in relation to prevailing winds)	√,	۵	
1g.	Ensured waste containers are emptied regularly	V/		
1h.	Ensured appropriate waste removal schedule	M		0/
1i.	Ensured waste is stored in a well-ventilated room			B/
lj.	Ensured any exhaust fans in the room are operating properly			4 /
1k.	Checked waste storage areas for odors, contaminants, or signs of vermin			

NOTES

(i-k) NO WASTE STORED INDOORS.