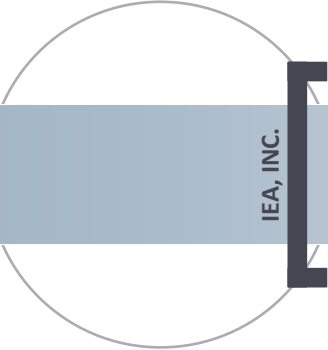


The logo for IEA, INC. features a large, thin-lined circle. A thick, dark grey horizontal bar is positioned across the middle of the circle. The text "IEA, INC." is written vertically in a dark grey, sans-serif font along the left side of this bar.

IEA, INC.

2023 - 2024 Ventilation Assessment



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Saint Paul Public Schools Wellstone Elementary School

Assessment Date:
Thursday, April 13, 2023

Project Description

IEA conducted a ventilation inspection in Wellstone Elementary School by IEA representative, Sashya Wandmaker, with the intent of gathering visual observations and overall ventilation information which will assist the District in making informed and proactive decisions to improve and maintain acceptable air quality in the building. This inspection is based upon the Environmental Protection Agency's (EPA's) Tools for Schools IAQ guidelines and the recommended Minnesota Department of Education (MDE) portion of a school district's IAQ management plan. Ventilation verification is also recommended by American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE).

Some observations gathered during the inspection may identify issues which may require additional testing, evaluation, further investigation, or maintenance on the ventilation systems.

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

GENERAL COMMENTS

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

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

Building Information

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

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

- Automation controls are managed internally.
- A Building Automation System is present. The automation control software program is Tridium and controls can not be accessed remotely.
- Schedules:

Ventilation operation:

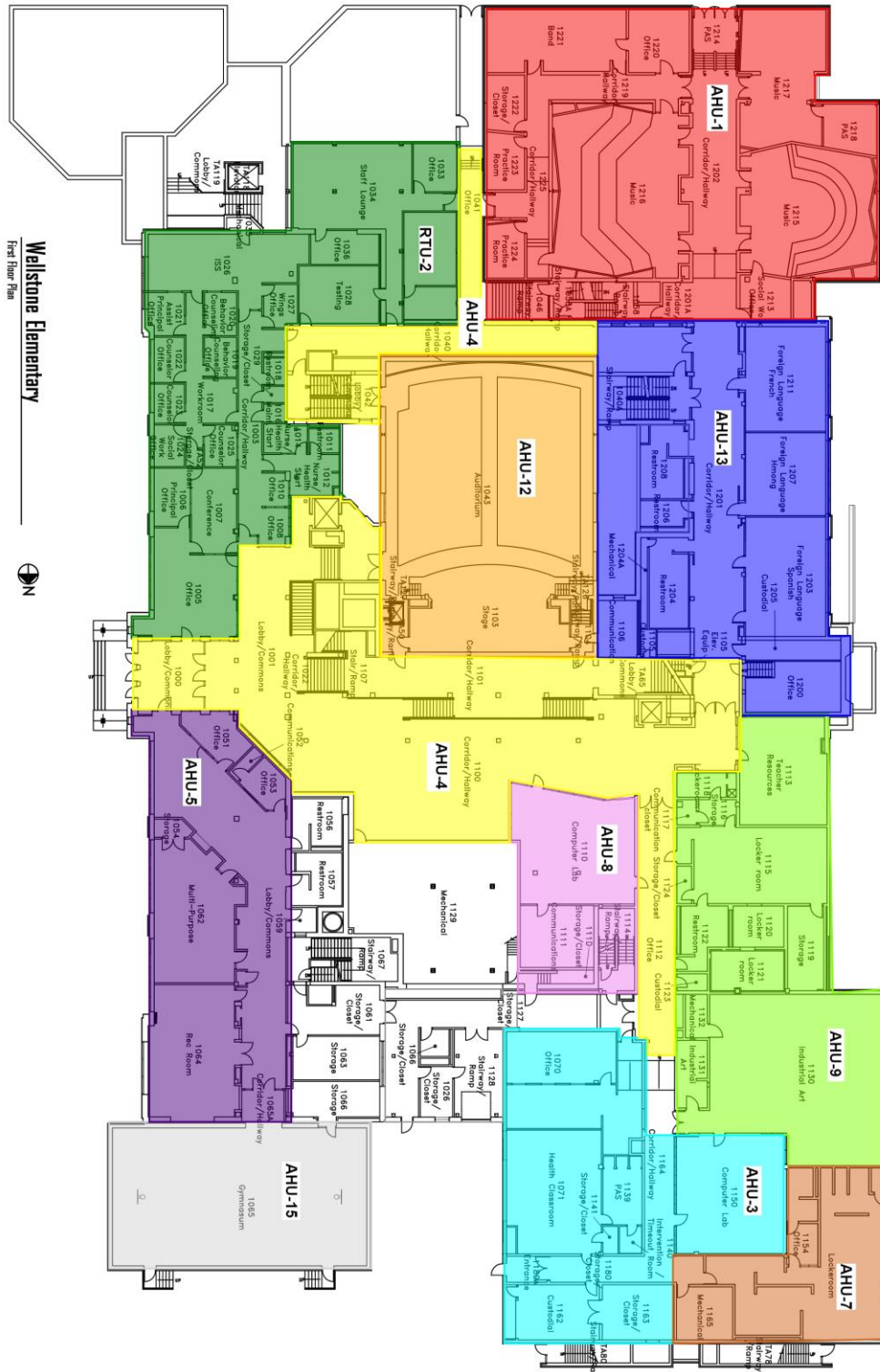
Day:	Occupied?	Start Time:	End Time:
Monday-Friday	Yes	5:29 AM	10:00 PM
Saturday	No		
Sunday	No		
Holiday	No		

Typical occupancy:

Day:	Occupied?	Start Time:	End Time:
Monday-Friday	Yes	7:00 AM	8:30 AM
Saturday	No		
Sunday	No		
Holiday	No		
Notes: Rec center stays open until 8:30			

- It is not known whether or not CO2 sensors are associated with the ventilation system.
- VAVs are present. They are not fan powered.
- Building has variable frequency drives (VFD).
- The heating system is gas-fired.
- A cooling system is present and is a Dx type system.
- Filters used are:

Filter Type	MERV Rating
Pleated	MERV 11
- Filters are changed 3-4 times a year.
- Energy Recovery Units are not present.
- Units do not contain system Enhancements.
- Personal air purifiers are supplied for individual rooms. They are Winix /Plasmawave 2.0.
 - Location: In classrooms
- It is not known whether or not the building was commissioned during the original construction.



Wellstone Elementary



Assessment

Ventilation System

The following information was gathered by IEA on Thursday, April 13, 2023 with support from the district building representative during the on-site interview. The type of heating, ventilating and air-conditioning (HVAC) system and its assessment is included for each unit below:

Unit Designation:	AHU-1	
Location of Unit:	Mechanical room 0056	
Areas Served:	Music Rooms-See Attached Map	
System Enhancements:	None	
Supply System	Outdoor Air	Cleanliness and Observations
Type - Supply System - Constant Volume - Heating - None - Cooling - None - Energy Recovery Unit (ERU) - None	Outdoor air intake is accessible Outdoor air intake is located on the roof. No nearby pollution sources were found.	Outdoor air filters are not present. Return air filters are not present. Mixed air pre-filters are not present. Mixed air main filters are clean and not in need of replacement (scoring 2 out of 5) and fit well. Mixed air main filters are installed correctly. Drain pans are not applicable or not present. Drain pan condition is not known.
Filter Type - Mixed - Pre-filter: None - Main filter: Pleated, MERV 11	Outdoor air intake is in good condition.	Heat wheels are not present. Exterior ducting is visible. Exterior ducting insulation is not present. Interior ducting is visible. Interior ducting insulation is not present. Interior ducting is clean. Air handling room is free of trash/chemicals. Outside damper is open, and its condition is good. Return damper is open, and its condition is good. The general condition of the unit is good.

Unit Designation:	AHU-2	
Location of Unit:	Mechanical Room 0056	
Areas Served:	Home Ec Rooms-See Attached Map	
System Enhancements:	None	
Supply System	Outdoor Air	Cleanliness and Observations
Type - Supply System - Constant Volume - Heating - None - Cooling - None - Energy Recovery Unit (ERU) - None	Outdoor air intake is accessible Outdoor air intake is located on the roof. No nearby pollution sources were found.	Outdoor air filters are not present. Return air filters are not present. Mixed air pre-filters are not present. Mixed air main filters are clean and not in need of replacement (scoring 1 out of 5) and fit well. Mixed air main filters are installed correctly. Drain pans are not applicable or not present. Drain pan condition is not known.
Filter Type - Mixed - Pre-filter: None - Main filter: Pleated, MERV 11	Outdoor air intake is in good condition.	Heat wheels are not present. Exterior ducting is visible. Exterior ducting insulation is not present. Interior ducting is visible. Interior ducting insulation is not present. Interior ducting is clean. Air handling room is free of trash/chemicals. Outside damper is open, and its condition is good. Return damper is open, and its condition is good. The general condition of the unit is good.

Unit Designation:	AHU-3	
Location of Unit:	Mechanical Room 2133	
Areas Served:	Rms 1150, 1070, 1071-See Attached Map	
System Enhancements:	None	
Supply System	Outdoor Air	Cleanliness and Observations
Type - Supply System - VAV - Heating - Hot Water - Cooling - Dx - Energy Recovery Unit (ERU) - None	Outdoor air intake is accessible Outdoor air intake is located on the roof. No nearby pollution sources were found.	Outdoor air filters are not present. Return air filters are not present. Mixed air pre-filters are not present. Mixed air main filters are somewhat dirty and on the border of needing replacement (scoring 3 out of 5) and fit well. Mixed air main filters are installed correctly. Drain pans are not plugged. Drain pan condition is good. Heating coils are clean and cooling coils are clean. Heat wheels are not present. Exterior ducting is visible. Exterior ducting insulation is in good condition. Interior ducting is not visible. Interior ducting insulation is in an unknown condition. Interior ducting is of unknown cleanliness. Air handling room is free of trash/chemicals. Outside damper is open, and its condition is good. Return damper is inaccessible, and its condition is not known. The general condition of the unit is good.
Filter Type - Mixed - Pre-filter: None - Main filter: Pleated, MERV 11	Outdoor air intake is in good condition.	

Unit Designation:	AHU-04	
Location of Unit:	Mechanical Room 2133	
Areas Served:	Technology-See Attached Map	
System Enhancements:	None	
Supply System	Outdoor Air	Cleanliness and Observations
Type - Supply System - Constant Volume - Heating - Hot Water - Cooling - None - Energy Recovery Unit (ERU) - None	Outdoor air intake is accessible Outdoor air intake is located on the roof. No nearby pollution sources were found.	Outdoor air filters are not present. Return air filters are not present. Mixed air pre-filters are not present. Mixed air main filters are somewhat dirty and on the border of needing replacement (scoring 4 out of 5) and fit poorly. Mixed air main filters are installed correctly. Drain pans are not applicable or not present. Drain pan condition is not known.
Filter Type - Mixed - Pre-filter: None - Main filter: Pleated, MERV 11	Outdoor air intake is in good condition.	Heating coils are dirty. Heat wheels are not present. Exterior ducting is visible. Exterior ducting insulation is in good condition. Interior ducting is not visible. Interior ducting insulation is in an unknown condition. Interior ducting is of unknown cleanliness. Air handling room is free of trash/chemicals. Outside damper is open, and its condition is good. Return damper is inaccessible, and its condition is not known. The general condition of the unit is good.

Unit Designation:	AHU-05	
Location of Unit:	Mechanical Room 2133	
Areas Served:	Parks and Rec-See Attached Map	
System Enhancements:	None	
Supply System	Outdoor Air	Cleanliness and Observations
Type - Supply System - VAV - Heating - Hot Water - Cooling - Dx - Energy Recovery Unit (ERU) - None	Outdoor air intake is accessible Outdoor air intake is located on the roof. No nearby pollution sources were found.	Outdoor air filters are not present. Return air filters are not present. Mixed air pre-filters are not present. Mixed air main filters are clean and not in need of replacement (scoring 2 out of 5) and fit well. Mixed air main filters are installed correctly. Drain pans are not plugged. Drain pan condition is good. Heating coils are clean and cooling coils are dirty.
Filter Type - Mixed - Pre-filter: None - Main filter: Pleated, MERV 11	Outdoor air intake is in good condition.	Heat wheels are not present. Exterior ducting is visible. Exterior ducting insulation is in good condition. Interior ducting is not visible. Interior ducting insulation is in an unknown condition. Interior ducting is of unknown cleanliness. Air handling room is free of trash/chemicals. Outside damper is open, and its condition is good. Return damper is inaccessible, and its condition is not known. The general condition of the unit is good.

Unit Designation:	AHU-06	
Location of Unit:	Mechanical Room 3114 off of resource center storage. Enter from office	
Areas Served:	Gymnasium-See Attached Map	
System Enhancements:	None	
Supply System	Outdoor Air	Cleanliness and Observations
Type - Supply System - Constant Volume - Heating - Hot Water - Cooling - None - Energy Recovery Unit (ERU) - None	Outdoor air intake is accessible Outdoor air intake is located on the roof. No nearby pollution sources were found.	Outdoor air filters are not present. Return air filters are not present. Mixed air pre-filters are not present. Mixed air main filters are clean and not in need of replacement (scoring 2 out of 5) and fit well. Mixed air main filters are installed correctly. Drain pans are not plugged. Drain pan condition is good. Heating coils are dirty.
Filter Type - Mixed - Pre-filter: None - Main filter: Pleated, MERV 11	Outdoor air intake is in good condition.	Heat wheels are not present. Exterior ducting is visible. Exterior ducting insulation is not present. Interior ducting is visible. Interior ducting insulation is not present. Interior ducting is clean. Air handling room is free of trash/chemicals. Outside damper is open, and its condition is good. Return damper is open, and its condition is good. The general condition of the unit is good.

Unit Designation:	AHU-07 (100% OA)	
Location of Unit:	Mechanical Room 3114	
Areas Served:	Locker Rooms-See Attached Map	
System Enhancements:	None	
Supply System	Outdoor Air	Cleanliness and Observations
Type - Supply System - Constant Volume - Heating - Hot Water - Cooling - None - Energy Recovery Unit (ERU) - None	Outdoor air intake is accessible Outdoor air intake is located on the roof. No nearby pollution sources were found.	Outdoor air pre-filters are not present. Outdoor air main filters are clean and not in need of replacement (scoring 2 out of 5) and fit well. Outdoor air main filters are installed correctly. Return air filters are not present. Drain pans are not applicable or not present. Drain pan condition is not known. Heating coils are clean.
Filter Type - Outdoor - Pre-filter: None - Main filter: Pleated, MERV 11	Outdoor air intake is in good condition.	Heat wheels are not present. Exterior ducting is visible. Exterior ducting insulation is in good condition. Interior ducting is visible. Interior ducting insulation is not present. Interior ducting is clean. Air handling room is free of trash/chemicals. Outside damper is open, and its condition is good. Return damper is not present. The general condition of the unit is good.

Unit Designation:	AHU-08	
Location of Unit:	Mechanical Room 3114	
Areas Served:	See Attached Map	
System Enhancements:	None	
Supply System	Outdoor Air	Cleanliness and Observations
Type - Supply System - VAV - Heating - Hot Water - Cooling - Dx - Energy Recovery Unit (ERU) - None	Outdoor air intake is accessible Outdoor air intake is located on the roof. No nearby pollution sources were found.	Outdoor air filters are not present. Return air filters are not present. Mixed air pre-filters are not present. Mixed air main filters are clean and not in need of replacement (scoring 2 out of 5) and fit well. Mixed air main filters are installed correctly. Drain pans are plugged. Drain pan condition is good. Heating coils are dirty and cooling coils are clean.
Filter Type - Mixed - Pre-filter: None - Main filter: Pleated, MERV 11	Outdoor air intake is in good condition.	Heat wheels are not present. Exterior ducting is visible. Exterior ducting insulation is in good condition. Interior ducting is not visible. Interior ducting insulation is in an unknown condition. Interior ducting is of unknown cleanliness. Air handling room is free of trash/chemicals. Outside damper is open, and its condition is good. Return damper is open, and its condition is good. The general condition of the unit is good.

Unit Designation:	AHU-09	
Location of Unit:	Mechanical Room 1119, in back of 1115 (used as storage now not a locker room)	
Areas Served:	Wood Shop-See Attached Map	
System Enhancements:	None	
Supply System	Outdoor Air	Cleanliness and Observations
Type - Supply System - Constant Volume - Heating - Hot Water - Cooling - None - Energy Recovery Unit (ERU) - None	Outdoor air intake is accessible Outdoor air intake is located on the roof. No nearby pollution sources were found.	Outdoor air filters are not present. Return air filters are not present. Mixed air pre-filters are not present. Mixed air main filters are somewhat dirty and on the border of needing replacement (scoring 3 out of 5) and fit well. Mixed air main filters are installed correctly. Drain pans are not applicable or not present. Drain pan condition is not known.
Filter Type - Mixed - Pre-filter: None - Main filter: Pleated, MERV 11	Outdoor air intake is in good condition.	Heating coils are dirty. Heat wheels are not present. Exterior ducting is visible. Exterior ducting insulation is in good condition. Interior ducting is not visible. Interior ducting insulation is in an unknown condition. Interior ducting is of unknown cleanliness. Air handling room is free of trash/chemicals. Outside damper is open, and its condition is good. Return damper is inaccessible, and its condition is not known. The general condition of the unit is good.

Unit Designation:	AHU-10	
Location of Unit:	Boiler Room	
Areas Served:	Old Building SE and NE-See Attached Map	
System Enhancements:	None	
Supply System	Outdoor Air	Cleanliness and Observations
Type - Supply System - Constant Volume - Heating - Hot Water - Cooling - None - Energy Recovery Unit (ERU) - None	Outdoor air intake is accessible	Outdoor air filters are not present. Return air filters are not present.
	Outdoor air intake is located on the roof.	Mixed air pre-filters are not present. Mixed air main filters are somewhat dirty and on the border of needing replacement (scoring 3 out of 5) and fit well. Mixed air main filters are installed correctly.
	No nearby pollution sources were found.	Drain pans are not plugged. Drain pan condition is good.
Filter Type - Mixed		Heating coils are clean.
- Pre-filter: None - Main filter: Pleated, MERV 11	Outdoor air intake is in good condition.	Heat wheels are not present.
		Exterior ducting is visible. Exterior ducting insulation is not present.
		Interior ducting is not visible. Interior ducting insulation is in an unknown condition. Interior ducting is of unknown cleanliness.
		Air handling room is free of trash/chemicals.
		Outside damper is open, and its condition is good.
		Return damper is inaccessible, and its condition is not known.
		The general condition of the unit is good.

Unit Designation:	AHU-11	
Location of Unit:	Boiler Room	
Areas Served:	Old Building SE and NE-See Attached Map	
System Enhancements:	None	
Supply System	Outdoor Air	Cleanliness and Observations
Type - Supply System - Constant Volume - Heating - Hot Water - Cooling - None - Energy Recovery Unit (ERU) - None	Outdoor air intake is accessible Outdoor air intake is located on the roof. No nearby pollution sources were found.	Outdoor air filters are not present. Return air filters are not present. Mixed air pre-filters are not present. Mixed air main filters are somewhat dirty and on the border of needing replacement (scoring 3 out of 5) and fit well. Mixed air main filters are installed correctly. Drain pans are not plugged. Drain pan condition is good. Heating coils are clean.
Filter Type - Mixed - Pre-filter: None - Main filter: Pleated, MERV 11	Outdoor air intake is in good condition.	Heat wheels are not present. Exterior ducting is visible. Exterior ducting insulation is not present. Interior ducting is not visible. Interior ducting insulation is in an unknown condition. Interior ducting is of unknown cleanliness. Air handling room is free of trash/chemicals. Outside damper is open, and its condition is good. Return damper is inaccessible, and its condition is not known. The general condition of the unit is good.

Unit Designation:	AHU-12	
Location of Unit:	Boiler Room	
Areas Served:	Auditorium-See Attached Map	
System Enhancements:	None	
Supply System	Outdoor Air	Cleanliness and Observations
Type - Supply System - Constant Volume - Heating - Hot Water - Cooling - None - Energy Recovery Unit (ERU) - None	Outdoor air intake is accessible Outdoor air intake is located on the roof. No nearby pollution sources were found.	Outdoor air filters are not present. Return air filters are not present. Mixed air pre-filters are not present. Mixed air main filters are somewhat dirty and on the border of needing replacement (scoring 3 out of 5) and fit well. Mixed air main filters are installed correctly. Drain pans are not plugged. Drain pan condition is good. Heating coils are clean.
Filter Type - Mixed - Pre-filter: None - Main filter: Pleated, MERV 11	Outdoor air intake is in good condition.	Heat wheels are not present. Exterior ducting is visible. Exterior ducting insulation is not present. Interior ducting is not visible. Interior ducting insulation is in an unknown condition. Interior ducting is of unknown cleanliness. Air handling room is free of trash/chemicals. Outside damper is open, and its condition is good. Return damper is inaccessible, and its condition is not known. The general condition of the unit is good.

Unit Designation:	AHU-13	
Location of Unit:	Mechanical Room 1200	
Areas Served:	SW Classrooms - 3 floors-See Attached Map	
System Enhancements:	None	
Supply System	Outdoor Air	Cleanliness and Observations
Type - Supply System - Constant Volume - Heating - Hot Water - Cooling - None - Energy Recovery Unit (ERU) - None	Outdoor air intake is accessible	Outdoor air filters are not present. Return air filters are not present.
	Outdoor air intake is located on the roof.	Mixed air pre-filters are not present. Mixed air main filters are somewhat dirty and on the border of needing replacement (scoring 4 out of 5) and fit well. Mixed air main filters are installed incorrectly.
	No nearby pollution sources were found.	Drain pans are not plugged. Drain pan condition is good.
Filter Type - Mixed		Heating coils are clean.
- Pre-filter: None - Main filter: Pleated, MERV 11	Outdoor air intake is in good condition.	Heat wheels are not present.
		Exterior ducting is visible. Exterior ducting insulation is not present.
		Interior ducting is not visible. Interior ducting insulation is in an unknown condition. Interior ducting is of unknown cleanliness.
		Air handling room is free of trash/chemicals.
		Outside damper is open, and its condition is good.
		Return damper is inaccessible, and its condition is not known.
		The general condition of the unit is good.

Unit Designation:	AHU-14	
Location of Unit:	0010	
Areas Served:	Cafeteria & Kitchen-See Attached Map	
System Enhancements:	None	
Supply System	Outdoor Air	Cleanliness and Observations
Type - Supply System - Constant Volume - Heating - Hot Water - Cooling - None - Energy Recovery Unit (ERU) - None	Outdoor air intake is accessible Outdoor air intake is located on an exterior wall. No nearby pollution sources were found. Outdoor air intake is in good condition.	Outdoor air filters are not present. Return air filters are not present. Mixed air pre-filters are not present. Mixed air main filters are clean and not in need of replacement (scoring 2 out of 5) and fit poorly. Mixed air main filters are installed correctly. Drain pans are not plugged. Drain pan condition is good. Heating coils are dirty. Heat wheels are not present. Exterior ducting is visible. Exterior ducting insulation is in good condition. Interior ducting is not visible. Interior ducting insulation is in an unknown condition. Interior ducting is of unknown cleanliness. Air handling room is free of trash/chemicals. Outside damper is open, and its condition is good. Return damper is open, and its condition is good. The general condition of the unit is good.
Filter Type - Mixed - Pre-filter: None - Main filter: Pleated, MERV 11		

Unit Designation:	AHU-15	
Location of Unit:	Mechanical Room 1063	
Areas Served:	NE Rec Center-See Attached Map	
System Enhancements:	None	
Supply System	Outdoor Air	Cleanliness and Observations
Type - Supply System - Constant Volume - Heating - Hot Water - Cooling - None - Energy Recovery Unit (ERU) - None	Outdoor air intake is accessible Outdoor air intake is located on the roof. No nearby pollution sources were found.	Outdoor air filters are not present. Return air filters are not present. Mixed air pre-filters are not present. Mixed air main filters are somewhat dirty and on the border of needing replacement (scoring 3 out of 5) and fit well. Mixed air main filters are installed correctly. Drain pans are not applicable or not present. Drain pan condition is not known.
Filter Type - Mixed - Pre-filter: None - Main filter: Pleated, MERV 11	Outdoor air intake is in good condition.	Heating coils are dirty. Heat wheels are not present. Exterior ducting is visible. Exterior ducting insulation is not present. Interior ducting is not visible. Interior ducting insulation is in an unknown condition. Interior ducting is of unknown cleanliness. Air handling room is free of trash/chemicals. Outside damper is open, and its condition is good. Return damper is open, and its condition is good. The general condition of the unit is good.

Unit Designation:	AHU-16	
Location of Unit:	open area next to cafeteria, access through small door on wall in 1040A stairwell	
Areas Served:	See attached map.	
System Enhancements:	None	
Supply System	Outdoor Air	Cleanliness and Observations
Type - Supply System - Constant Volume - Heating - Hot Water - Cooling - Dx - Energy Recovery Unit (ERU) - None	Outdoor air intake is inaccessible Outdoor air intake is located in an unknown location. It is not known if there are nearby pollution sources.	Outdoor air filters are not present. Return air filters are not present. Mixed air pre-filters are not present. Mixed air main filters are clean and not in need of replacement (scoring 2 out of 5) and fit well. Mixed air main filters are installed correctly. Drain pan plugged status is not known. Drain pan condition is not known.
Filter Type - Mixed - Pre-filter: None - Main filter: Pleated, MERV 11	Outdoor air intake is in good condition.	Heating coils are clean and cooling coils are clean. Heat wheels are not present. Exterior ducting is visible. Exterior ducting insulation is not present. Interior ducting is not visible. Interior ducting insulation is in an unknown condition. Interior ducting is of unknown cleanliness. Air handling room is free of trash/chemicals. Outside damper is inaccessible, and its condition is not known. Return damper is open, and its condition is good. The general condition of the unit is good.

Unit Designation:	RTU-01	
Location of Unit:	Roof	
Areas Served:	Administration & Title 1-See Attached Map	
System Enhancements:	None	
Supply System	Outdoor Air	Cleanliness and Observations
Type - Supply System - VAV - Heating - Hot Water - Cooling - Dx - Energy Recovery Unit (ERU) - None	Outdoor air intake is accessible Outdoor air intake is located on the roof. No nearby pollution sources were found.	Outdoor air filters are not present. Return air filters are not present. Mixed air pre-filters are not present. Mixed air main filters are somewhat dirty and on the border of needing replacement (scoring 4 out of 5) and fit well. Mixed air main filters are installed correctly. Drain pans are not plugged. Drain pan condition is good. Heating coils are dirty and cooling coils are dirty. Heat wheels are not present. Exterior ducting is not visible. Exterior ducting insulation is in an unknown condition. Interior ducting is not visible. Interior ducting insulation is in an unknown condition. Interior ducting is of unknown cleanliness. Air handling room is free of trash/chemicals. Outside damper is open, and its condition is good. Return damper is inaccessible, and its condition is not known. The general condition of the unit is good.
Filter Type - Mixed - Pre-filter: None - Main filter: Pleated, MERV 11	Outdoor air intake is in good condition.	

Recommendations

Dirty Coils were observed on units AHU-04, AHU-05, AHU-06, AHU-08, AHU-09, AHU-14, AHU-15 and RTU-01 during the ventilation inspection.

Recommendation: Impacted/dirty coils can result in poor ventilation air supply as well as be a source for mold and bacterial growth on the coils. Coils should be cleaned annually, or as needed, as identified in the operations and maintenance program.

The drain pan for unit AHU-08 was plugged or damaged at the time of the site inspection.

Recommendation: Damage to the drain pan should be repaired, or the drain pan should be inspected more frequently to ensure that it does not become plugged.

Dirty or poorly fitting filters were observed in units AHU-04, AHU-13 and AHU-14 during the ventilation inspection.

Recommendation: The operations and maintenance program for filter changes should be reviewed and revised to ensure proper filter changes to optimize filtration capacity.

Appendix A

Photo Documentation



AHU-3

Mixed Main Filter Cleanliness



AHU-04

Mixed Main Filter Cleanliness



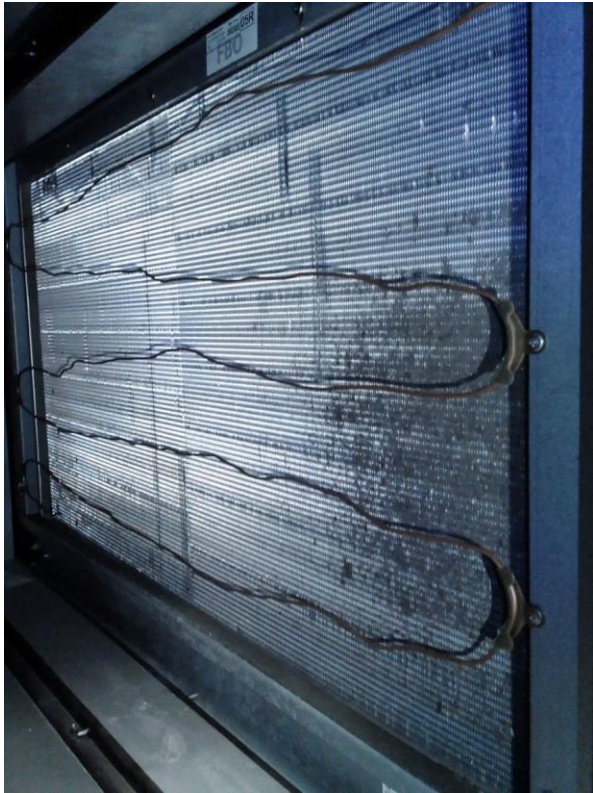
AHU-04

Mixed Main Filter Fit



AHU-04

Heating Coils



AHU-05
Cooling Coils



AHU-06
Heating Coils



AHU-08
Drain Pans



AHU-08
Heating Coils



AHU-09

Mixed Main Filter Cleanliness



AHU-09

Heating Coils



AHU-10

Mixed Main Filter Cleanliness



AHU-11

Mixed Main Filter Cleanliness



AHU-12

Mixed Main Filter Cleanliness



AHU-13

Mixed Main Filter Cleanliness



AHU-13

Mixed Main Filter Installation



AHU-14

Mixed Main Filter Fit



AHU-14
Heating Coils



AHU-15
Mixed Main Filter Cleanliness



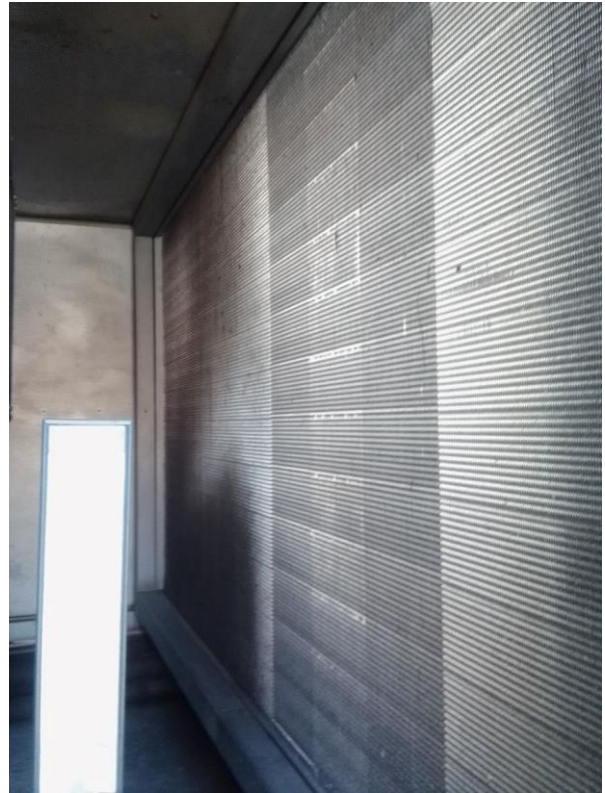
AHU-15
Heating Coils



RTU-01
Mixed Main Filter Cleanliness



RTU-01
Heating Coils



RTU-01
Cooling Coils