

Tolland School System

TOOLS FOR SCHOOL

2017/2018 ANNUAL SUMMARY REPORT

SCHOOL: Tolland Middle School: One Falcon Way

TEAM MEMBERS:	Christine C. Grulke, M.S., R.N.- Coordinator	Mary Grande, Principal
	Jeff Palmer, Custodian	Mary Ann Hoke, Teacher
	Tony Spangle - Assistant Principal	Scott Schneider: Teacher
	Chris White - Energy Manager	Peter Sztaba - Maintenance and parent

SCHOOL CENSUS: 6th grade: 191 7th grade: 188 8th grade: 202 110 adults

YEAR OF CONSTRUCTION: Main building 1965; science addition 1966; auditorium/gymnasium/lunch room addition 1988; TMS moved to 1 Falcon Way Summer 2008; Conversion to City Water 2011; All asbestos floor tiles removed 2012; geothermal completed Fall 2015

GOAL ACHIEVEMENTS/ACCOMPLISHMENTS FOR YEAR 2016/2017:

Tools for Schools Team met: September 28, 2017; November 16, 2017, December 9, 2015; January 2018 Survey completed; February 22, 2018; April 12, 2018 TMS Walk About Assessment; May 24, 2018.

March 17, 2016: District Wide DPH Tools for Schools Refresher Course hosted by Kenney Foscue

2017/2018 Recommendations

Short Term Goals:

Recommend leaving a/c on for summer months band and auditorium to prevent mold issues per EPA New England Indoor Air Quality Tools for Schools Summer tips.

" Schools in humid climates that are close up over the summer may need to keep ventilation running And monitor humidity levels within the building to a level below 60%. Also, a weekly check for Mold growth (sight and smell) is a good practice."

Monitor for science classroom aroma/symptoms especially in the fall -

Monitor for mice and aroma especially music/art wing

Plan abbreviated IAQ survey for January 2018

Continue to report TFS at Safety meeting.

Medium Term Goals:

Increase membership participation in walk around: Two staff did walkabout

Long Term Goals:

17/18: 75% of TMS roof replacement planned - pending budget vote

18/19: TMS Sky lights and window replacement planned

Radon Testing for One Falcon Way due 2021. (Completed spring 2006, 2011, 2016); per Connecticut Department of Health School Radon Testing Guidance Connecticut General Statute Section 10-220 (d) "...and every five years thereafter... "

INTERIOR INSPECTION:

Thermal

- 85% feel Temp/humidity comfortable (up from 84%)
- 7 complaints of being cold - given thermometer for 3 days - range between 68-72 in all but 1 room - set point adjusted in that room
- Complaints of dryness: humidity level 22-30% in winter

Walk Around Observations:

On walk around: comfortable to group walking around

Thermal regulation: Geothermal unit working, air circulation in summer improved in non-air conditioned areas

Windows & doors are closed during heating season

Blinds open to take advantage of natural lighting when possible

Blinds closed when direct sunlight enters rooms during summer

Humidity during winter months <20%. Constant air movement with geothermal has staff complaining of nose bleed, dry eyes, sinus issues; this is not a change from the forced hot air heat we use to have.

Humidity during summer/fall months above 50% geothermal/a/c and air movement eliminated mold growth noted in auditorium su 2013, 2014.

Ventilation System:

- 94% feel room is free of objectionable odors: (down from 96%)
 - Student body aroma noted x1
 - 1 responders comment that the unit is noisy (down from 9) - db readings <90 db allowed by OSHA
 - Air quality issue January to March regarding dead mouse aroma has not occurred since 2015 Perhaps the outdoor baiting helped and warmer weather kept mice outside.

Walk Around Observations

Pleasant aroma noted in hallways.. Air purifier in band room functioning.

- 98% felt no signs of mold or mildew growth
 - Room 14 noted Mold growth: none noted since repair of sink 2014
 - Room 102: bubbling exterior wall sealed and to be scraped and repainted su 2016

Walk Around Observations:

Girl's locker room: Dehumidifier not running in rear storage room; no mold noted

Boy's locker room: Dehumidifier not running in rear storage room; no mild noted; rear locker room wires covered

Band room: dehumidifier runs during summer

Negative pressure in school:

No Sewer aroma noted to restroom

Well Room across from gym handicap Restroom has stale smell

General Cleanliness:

- 90% felt area generally clean. Comments: "need to dust; office need vacuuming regularly; need to mop."
- All uneaten food/snacks stored in properly sealed containers.
- Exit vents cleaned annually by custodians, Unit Ventilator filters change August, December and April
 - Students diagnosed with asthma 138/579 or 2.4:10: National average is 1:10
 - 36 pulmonary medicine in nurses office 5/18
 - 3 cases of pneumonia
 - 55 cases of Flu syndrome
- Custodial Staff continues to be reduced

Walk Around Observations:

*1st floor cleanliness: less paper/dust debris noted in hallways- wax build-up removed below lockers
2ⁿ floor cleanliness visibly better
2013 Installed NonAsbestos flooring scratched and finish worn off
Classrooms ready for cleaning with chairs up
Library: carpet and couch noted source of dust/mold
Numerous classroom windows without screens
Gymnasium wall mats intact and available for collision control
Custodial closets noted to be tidy, chemicals in appropriate labeled bottles, rinsing areas are dry and no active dripping of water. No battery storage noted. Aroma clean, no must/mildew noted
eyewash stations present and weekly tag checks present*

- **6 areas have evidence of evidence of pests: (mice, bees, ants) - Richland Pest Control handles**
 - Mice noted Room 16, Guidance, Main Office, and Kitchen.
 - Ants noted Rooms 102, guidance, nursing
 - Spider mites noted Office 3 early May (pretreated May 2017) and averted influx
 - Per Richland: Dumpster lids to be kept shut when not in use - dumpster replaced due to broken lid
 - Locker clean out prior to week vacations helps reduce locker storage of food.
 - Food storage in sealed containers - 17/18 mouse droppings noted in flour in room 16 recommended to put sealed flour container in refrigerator
 - Kitchen area all items wrapped in plastic or in sealed cans.
 - Teacher Lounge table tops and microwave cleanliness improved and has not been noted in Richland visits
 - New 3/2018 Propell pesticide applied (6 gallons) to outside perimeter for mice repellent

Walk Around Results:

*Mouse droppings visualized in Room 14 and 16
Food and sticky bait placed by Richland helping. Bait traps visible under sinks. - new perimeter bait to help border mice influx for 17/18*

- **100% store food in a tightly sealed container**

Walk Around results

*Kitchen: cleaning supplies (bleach and ammonia) separated; food away from cleaning supplies
Kitchen: all food in air tight containers
During Walkabout food items in classrooms was limited but stored in air tight plastic containers.
Custodial closets: supplies in original bottles, no batteries noted,*

- **100% fill "u" joint with water weekly or it is n/a**
 - Floor drains in restroom near gym obstructed with dust
 - Science rooms 10, 11, 17, and 30 no aroma noted
 - Unknown when girl's/boy's locker room showers were used
- **100% have unit ventilators and vent ducts free of obstruction**
 - 4 air purifiers: room 17, Girl's locker room, 217, and band room.
 - Outer filters changed December, March and June
 - Inner filters changed annually or every 3 years per unit utilized
- **Staff utilizing only custodian provided "green cleaners"**
 - No non-green cleaners seen during walk about when cabinets/under sinks checked
- **Staff documented that needed fixed: 11 items entered into School Dude repaired promptly and are closed items**

EXTERIOR/OUTDOOR INSPECTION:

Ground Level

Tolland Middle School was built in 3 sections: Main school 1965; science addition in 1966; and auditorium addition in 1988. Asbestos flooring removed summer 2011
School entry floor mats removable and are cleaned and air-dried with season moisture.
"No Idling" signs are present along front, rear and loading dock
Geothermal completed Fall 2015

Walk Around Observations:

Foundation intact- no leaking noted

No water ponding noted within 50 feet of school- water drainage in rear of building flowing parking lot repaved fall 2011

"No Idling" signage on school property

Vines scale two courtyard walls near cafeteria trimmed and away from air intakes and off roof line.

Roof:

No Ponding around air vents noted

No tree branches resting on roof

Intakes free of debris

Plumbing stacks 10 feet away from outdoor air intakes

Roof appears intact -

Sky light flashings intact

Penthouse

No visible evidence of roof or plumbing leaks

No bird or animal nests visible

Miscellaneous: Walk Around Observations:

*Dumpster lids close, Loading dock area clean, No smoking sign present - no smoking "butts" visible -
No ponding noted, Circumference of school air intakes free of weeds, No bee/wasp nest seen
2 portables vacant, numerous holes under foundation noted -*

2018/2019 Recommendations

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And monitor humidity levels within the building to a level below 60%. Also, a weekly check for
Mold growth (sight and smell) is a good practice."*

Monitor for mice activity Room 14 &16 (new perimeter bait 2/2018)

Plan abbreviated IAQ survey for January 2019

Continue to report TFS at Safety meeting.

Medium Term Goals:

Increase membership participation in walk around:

Long Term Goals:

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Respectfully Submitted,

Christine Grulke RN

Christine C. Grulke, M.S., R.N., N.C.S.N.

Tolland Middle School

Tools for Schools Indoor Air Quality Coordinator