



## School Radon Testing Reporting Form

### General Instructions

According to MS 123B.571, radon testing conducted in public school buildings eligible for health and safety (i.e., not charter schools) must be reported to the Minnesota Department of Health.

For the purpose of this form, a building is defined as an occupied facility that has a unique address, including administrative buildings. A building could be a single structure or a complex of structures. For reference, all district owned buildings entered on the Minnesota Department of Education "Facilities Age and Square Footage Report" should be utilized.

Please submit information about the most recent round or cycle of testing conducted for each building, unless this was already reported to MDH in the 4/4/11 survey. We do not need details of prior rounds of testing.

1. Submit summary information and raw data if either of the following apply:
  - a. Radon testing has been completed in a building since the MDH 'School Radon Testing Survey' dated April 4, 2011, or
  - b. Radon testing was completed at some time previously and your district did not report radon testing in the MDH 'School Radon Testing Survey' dated April 4, 2011.
2. Complete one survey for each building tested
3. Submit the survey, raw data (e.g., laboratory analysis report) and a building map to MDH by email, to [health.indoorair@state.mn.us](mailto:health.indoorair@state.mn.us)
4. If follow-up testing, mitigation, and/or post-mitigation testing is not yet completed, please submit a completed form and raw data when the work is completed.

### Contact Person for this Form

Name: Kain Smith

Phone: 952-496-5046

Email: KrSmith@Shakopee.k12.mn.us

Mailing Address: 1200 Shakopee Town Square Shakopee, MN 55379

### Radon Results for Each School Building

1. District Name & Number: Shakopee Public Schools #720
2. School Building Name: Central Family Center
3. School Building Address: 505 Holmes St. S.
4. What type of test kit was used? Manufacturer: Landauer Device name: Radtrak 2

Comments: \_\_\_\_\_

5. When were the test kits retrieved? 3 / 17 (month/year)  
More than one date can be entered if parts of buildings were tested at different times

Comments: \_\_\_\_\_

6. How long were the test kits deployed in the rooms? 138 (days)  
More than one number can be noted if durations varied

Comments: \_\_\_\_\_

7. Was testing conducted over:  
a. Weekends? Yes ☒ No \_\_\_\_\_ b. Holidays or Breaks? Yes ☒ No \_\_\_\_\_

Comments: \_\_\_\_\_

8. Were all frequently-occupied rooms in contact with the ground tested? Yes \_\_\_\_\_ No ☒  
This includes: 1) rooms on grade and; 2) rooms above unoccupied spaces that are in contact with the ground, such as rooms above storage rooms, crawl spaces, tunnels, and boiler rooms. If only a sample or portion of rooms were tested, then respond with 'no'.

Comments: 3 detectors were missing

9. How many frequently-occupied rooms were tested? 18

Comments: 3 missing only 15 results

10. How many frequently-occupied rooms were at or above four picocuries per liter ( $\geq 4$  pCi/L)? 0

Comments: \_\_\_\_\_

11. Were test results reported at a school board meeting? Yes ☒ No \_\_\_\_\_  
If results will be reported at the next meeting, note in comments the month and year of the scheduled meeting in the comments section.

Comments: \_\_\_\_\_

**If one or more rooms  $\geq 4$  pCi/L, complete Questions 12-14.**

12. How many of the rooms  $\geq 4$  pCi/L had follow-up testing results that were:

- a.  $\geq 4$  pCi/L \_\_\_\_\_ b.  $< 4$  pCi/L \_\_\_\_\_ c. not tested \_\_\_\_\_

'Follow-up' testing means testing done, prior to any radon mitigation, to confirm or verify initial test results in those rooms  $\geq 4$  pCi/L are, in fact,  $\geq 4$  pCi/L. If a continuous radon monitor (CRM) was used, indicate concentration during occupied times. If no follow-up testing was done, write the number of rooms not tested. If follow-up testing will be done in the future, note in comments the planned month and year in the comments section.

Comments: \_\_\_\_\_

13. How many of the rooms  $\geq 4$  pCi/L:

- a. were mitigated? \_\_\_\_\_ b. had other corrective measures? \_\_\_\_\_

'Mitigated' means building changes such as adjusting the existing HVAC system, increasing fresh air ventilation rate, balancing air flow to rooms, or other such modifications. 'Other corrective measures' could include moving staff out of a room and making a room unoccupied or trying to seal radon entry points. If mitigation or other corrective measure(s) will be completed in the future, note in comments the planned month and year in the comments section.

Comments: \_\_\_\_\_

14. How many rooms re-tested after mitigation were:

- a.  $\geq 4$  pCi/L \_\_\_\_\_ b.  $< 4$  pCi/L \_\_\_\_\_ c. not tested \_\_\_\_\_

If post-mitigation re-testing will be completed in the future, note the planned month and year in the comments section.

Comments: \_\_\_\_\_







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### Contact Person for this Form

Name: Kain Smith

Phone: 952-496-5046

Email: KrSmith@Shakopee.k12.mn.us

Mailing Address: 1200 Shakopee Town Square Shakopee, MN 55379

### Radon Results for Each School Building

1. District Name & Number: Shakopee Public Schools #720
2. School Building Name: District Office
3. School Building Address: 1200 Shakopee Town Square
4. What type of test kit was used? Manufacturer: Landaver Device name: Radtrak 2

Comments: \_\_\_\_\_

5. When were the test kits retrieved? 3/17 (month/year)  
More than one date can be entered if parts of buildings were tested at different times

Comments: \_\_\_\_\_

6. How long were the test kits deployed in the rooms? 138 (days)  
More than one number can be noted if durations varied

Comments: \_\_\_\_\_

7. Was testing conducted over:  
a. Weekends? Yes ☒ No \_\_\_\_\_ b. Holidays or Breaks? Yes ☒ No \_\_\_\_\_

Comments: \_\_\_\_\_

8. Were all frequently-occupied rooms in contact with the ground tested? Yes \_\_\_\_\_ No ☒  
This includes: 1) rooms on grade and; 2) rooms above unoccupied spaces that are in contact with the ground, such as rooms above storage rooms, crawl spaces, tunnels, and boiler rooms. If only a sample or portion of rooms were tested, then respond with 'no'.

Comments: 2 detectors missing

9. How many frequently-occupied rooms were tested? 20

Comments: 2 missing so only 18 results

10. How many frequently-occupied rooms were at or above four picocuries per liter ( $\geq 4$  pCi/L)? 0

Comments: \_\_\_\_\_

11. Were test results reported at a school board meeting? Yes ☒ No \_\_\_\_\_  
If results will be reported at the next meeting, note in comments the month and year of the scheduled meeting in the comments section.

Comments: \_\_\_\_\_

**If one or more rooms  $\geq 4$  pCi/L, complete Questions 12-14.**

12. How many of the rooms  $\geq 4$  pCi/L had follow-up testing results that were:

a.  $\geq 4$  pCi/L \_\_\_\_\_ b.  $< 4$  pCi/L \_\_\_\_\_ c. not tested \_\_\_\_\_

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Comments: \_\_\_\_\_

13. How many of the rooms  $\geq 4$  pCi/L:

a. were mitigated? \_\_\_\_\_ b. had other corrective measures? \_\_\_\_\_

'Mitigated' means building changes such as adjusting the existing HVAC system, increasing fresh air ventilation rate, balancing air flow to rooms, or other such modifications. 'Other corrective measures' could include moving staff out of a room and making a room unoccupied or trying to seal radon entry points. If mitigation or other corrective measure(s) will be completed in the future, note in comments the planned month and year in the comments section.

Comments: \_\_\_\_\_

14. How many rooms re-tested after mitigation were:

a.  $\geq 4$  pCi/L \_\_\_\_\_ b.  $< 4$  pCi/L \_\_\_\_\_ c. not tested \_\_\_\_\_

If post-mitigation re-testing will be completed in the future, note the planned month and year in the comments section.

Comments: \_\_\_\_\_





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Phone: 952-496-5046

Email: KrSmith@Shakopee.k12.mn.us

Mailing Address: 1200 Shakopee Town Square Shakopee, MN 55379

**Radon Results for Each School Building**

1. District Name & Number: Shakopee Public Schools #720
2. School Building Name: Eagle Creek Elementary
3. School Building Address: 6855 Woodward Ave
4. What type of test kit was used? Manufacturer: Landauer Device name: Radtrak 2

Comments: \_\_\_\_\_

5. When were the test kits retrieved? 3/17 (month/year)  
More than one date can be entered if parts of buildings were tested at different times

Comments: \_\_\_\_\_

6. How long were the test kits deployed in the rooms? 138 (days)  
More than one number can be noted if durations varied

Comments: \_\_\_\_\_

7. Was testing conducted over:  
a. Weekends? Yes ☒ No \_\_\_\_\_ b. Holidays or Breaks? Yes ☒ No \_\_\_\_\_

Comments: \_\_\_\_\_

8. Were all frequently-occupied rooms in contact with the ground tested? Yes \_\_\_\_\_ No ☒  
This includes: 1) rooms on grade and; 2) rooms above unoccupied spaces that are in contact with the ground, such as rooms above storage rooms, crawl spaces, tunnels, and boiler rooms. If only a sample or portion of rooms were tested, then respond with 'no'.

Comments: 6 missing detectors

9. How many frequently-occupied rooms were tested? 33

Comments: 6 missing so only 27 results

10. How many frequently-occupied rooms were at or above four picocuries per liter ( $\geq 4$  pCi/L)? 13

Comments: \_\_\_\_\_

11. Were test results reported at a school board meeting? Yes ☒ No \_\_\_\_\_  
If results will be reported at the next meeting, note in comments the month and year of the scheduled meeting in the comments section.

Comments: \_\_\_\_\_

**If one or more rooms  $\geq 4$  pCi/L, complete Questions 12-14.**

12. How many of the rooms  $\geq 4$  pCi/L had follow-up testing results that were:

a.  $\geq 4$  pCi/L \_\_\_\_\_ b.  $< 4$  pCi/L 12 c. not tested 1

'Follow-up' testing means testing done, prior to any radon mitigation, to confirm or verify initial test results in those rooms  $\geq 4$  pCi/L are, in fact,  $\geq 4$  pCi/L. If a continuous radon monitor (CRM) was used, indicate concentration during occupied times. If no follow-up testing was done, write the number of rooms not tested. If follow-up testing will be done in the future, note in comments the planned month and year in the comments section.

Comments: Room 119 was missed on the follow up testing

13. How many of the rooms  $\geq 4$  pCi/L:

a. were mitigated? 0 b. had other corrective measures? 0

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Comments: \_\_\_\_\_

14. How many rooms re-tested after mitigation were:

a.  $\geq 4$  pCi/L \_\_\_\_\_ b.  $< 4$  pCi/L \_\_\_\_\_ c. not tested \_\_\_\_\_

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Comments: \_\_\_\_\_







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Mailing Address: 1200 Shakopee Town Square Shakopee, MN 55379

### Radon Results for Each School Building

1. District Name & Number: Shakopee Public Schools # 720
2. School Building Name: Jackson Elementary
3. School Building Address: 1601 Lusitano St.
4. What type of test kit was used? Manufacturer: Landauer Device name: Radtrak 2

Comments: \_\_\_\_\_

5. When were the test kits retrieved? 3/17 (month/year)  
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Comments: \_\_\_\_\_

6. How long were the test kits deployed in the rooms? 138 (days)  
More than one number can be noted if durations varied

Comments: \_\_\_\_\_

7. Was testing conducted over:  
a. Weekends? Yes ☒ No \_\_\_\_\_ b. Holidays or Breaks? Yes ☒ No \_\_\_\_\_

Comments: \_\_\_\_\_

8. Were all frequently-occupied rooms in contact with the ground tested? Yes \_\_\_\_\_ No ☒  
This includes: 1) rooms on grade and; 2) rooms above unoccupied spaces that are in contact with the ground, such as rooms above storage rooms, crawl spaces, tunnels, and boiler rooms. If only a sample or portion of rooms were tested, then respond with 'no'.

Comments: 4 missing detectors

9. How many frequently-occupied rooms were tested? 33

Comments: 4 missing so only 29 results

10. How many frequently-occupied rooms were at or above four picocuries per liter ( $\geq 4$  pCi/L)? 2

Comments: \_\_\_\_\_

11. Were test results reported at a school board meeting? Yes ☒ No \_\_\_\_\_  
If results will be reported at the next meeting, note in comments the month and year of the scheduled meeting in the comments section.

Comments: \_\_\_\_\_

**If one or more rooms  $\geq 4$  pCi/L, complete Questions 12-14.**

12. How many of the rooms  $\geq 4$  pCi/L had follow-up testing results that were:

a.  $\geq 4$  pCi/L \_\_\_\_\_ b.  $< 4$  pCi/L 2 c. not tested \_\_\_\_\_

'Follow-up' testing means testing done, prior to any radon mitigation, to confirm or verify initial test results in those rooms  $\geq 4$  pCi/L are, in fact,  $\geq 4$  pCi/L. If a continuous radon monitor (CRM) was used, indicate concentration during occupied times. If no follow-up testing was done, write the number of rooms not tested. If follow-up testing will be done in the future, note in comments the planned month and year in the comments section.

Comments: \_\_\_\_\_

13. How many of the rooms  $\geq 4$  pCi/L:

a. were mitigated? 0 b. had other corrective measures? 0

'Mitigated' means building changes such as adjusting the existing HVAC system, increasing fresh air ventilation rate, balancing air flow to rooms, or other such modifications. 'Other corrective measures' could include moving staff out of a room and making a room unoccupied or trying to seal radon entry points. If mitigation or other corrective measure(s) will be completed in the future, note in comments the planned month and year in the comments section.

Comments: \_\_\_\_\_

14. How many rooms re-tested after mitigation were:

a.  $\geq 4$  pCi/L \_\_\_\_\_ b.  $< 4$  pCi/L \_\_\_\_\_ c. not tested \_\_\_\_\_

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Comments: \_\_\_\_\_





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Mailing Address: 1200 Shakopee Town Square Shakopee, MN 55379

### Radon Results for Each School Building

1. District Name & Number: Shakopee Public Schools #720
2. School Building Name: Pearson Middle School
3. School Building Address: 917 Dakota St. S.
4. What type of test kit was used? Manufacturer: Landauer Device name: Radtrak 2

Comments: \_\_\_\_\_

5. When were the test kits retrieved? 3/17 (month/year)  
More than one date can be entered if parts of buildings were tested at different times

Comments: \_\_\_\_\_

6. How long were the test kits deployed in the rooms? 138 (days)  
More than one number can be noted if durations varied

Comments: \_\_\_\_\_

7. Was testing conducted over:  
a. Weekends? Yes ☒ No \_\_\_\_\_ b. Holidays or Breaks? Yes ☒ No \_\_\_\_\_

Comments: \_\_\_\_\_

8. Were all frequently-occupied rooms in contact with the ground tested? Yes \_\_\_\_\_ No ☒  
This includes: 1) rooms on grade and; 2) rooms above unoccupied spaces that are in contact with the ground, such as rooms above storage rooms, crawl spaces, tunnels, and boiler rooms. If only a sample or portion of rooms were tested, then respond with 'no'.

Comments: 3 missing detectors

9. How many frequently-occupied rooms were tested? 43

Comments: missing 3 so only 40 results

10. How many frequently-occupied rooms were at or above four picocuries per liter ( $\geq 4$  pCi/L)? 1

Comments: \_\_\_\_\_

11. Were test results reported at a school board meeting? Yes ☒ No \_\_\_\_\_  
If results will be reported at the next meeting, note in comments the month and year of the scheduled meeting in the comments section.

Comments: \_\_\_\_\_

**If one or more rooms  $\geq 4$  pCi/L, complete Questions 12-14.**

12. How many of the rooms  $\geq 4$  pCi/L had follow-up testing results that were:

a.  $\geq 4$  pCi/L \_\_\_\_\_ b.  $< 4$  pCi/L 1 c. not tested \_\_\_\_\_

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Comments: \_\_\_\_\_

13. How many of the rooms  $\geq 4$  pCi/L:

a. were mitigated? 0 b. had other corrective measures? 0

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Comments: \_\_\_\_\_

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### Radon Results for Each School Building

1. District Name & Number: Shakopee Public Schools #720
2. School Building Name: Red Oak Elementary
3. School Building Address: 7700 Old Carriage Ct.
4. What type of test kit was used? Manufacturer: Landauer Device name: Radtrak 2

Comments: \_\_\_\_\_

5. When were the test kits retrieved? 3/17 (month/year)  
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Comments: \_\_\_\_\_

6. How long were the test kits deployed in the rooms? 138 (days)  
More than one number can be noted if durations varied

Comments: \_\_\_\_\_

7. Was testing conducted over:  
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Comments: \_\_\_\_\_

8. Were all frequently-occupied rooms in contact with the ground tested? Yes \_\_\_\_\_ No ☒  
This includes: 1) rooms on grade and; 2) rooms above unoccupied spaces that are in contact with the ground, such as rooms above storage rooms, crawl spaces, tunnels, and boiler rooms. If only a sample or portion of rooms were tested, then respond with 'no'.

Comments: 7 missing detectors

9. How many frequently-occupied rooms were tested? 33

Comments: missing 7 so only 26 results

10. How many frequently-occupied rooms were at or above four picocuries per liter ( $\geq 4$  pCi/L)? 0

Comments: \_\_\_\_\_

11. Were test results reported at a school board meeting? Yes ☒ No \_\_\_\_\_  
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Comments: \_\_\_\_\_

**If one or more rooms  $\geq 4$  pCi/L, complete Questions 12-14.**

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Comments: \_\_\_\_\_

14. How many rooms re-tested after mitigation were:

a.  $\geq 4$  pCi/L \_\_\_\_\_ b.  $< 4$  pCi/L \_\_\_\_\_ c. not tested \_\_\_\_\_

If post-mitigation re-testing will be completed in the future, note the planned month and year in the comments section.

Comments: \_\_\_\_\_





## School Radon Testing Reporting Form

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2. Complete one survey for each building tested
3. Submit the survey, raw data (e.g., laboratory analysis report) and a building map to MDH by email, to [health.indoorair@state.mn.us](mailto:health.indoorair@state.mn.us)
4. If follow-up testing, mitigation, and/or post-mitigation testing is not yet completed, please submit a completed form and raw data when the work is completed.

### Contact Person for this Form

Name: Kain Smith

Phone: 952-496-5046

Email: KrSmith@Shakopee.k12.mn.us

Mailing Address: 1200 Shakopee Town Square Shakopee, MN 55379

### Radon Results for Each School Building

1. District Name & Number: Shakopee Public Schools #720
2. School Building Name: Shakopee High School
3. School Building Address: 100 17<sup>th</sup> ave E.
4. What type of test kit was used? Manufacturer: Landauer Device name: Radtrak 2

Comments: \_\_\_\_\_

5. When were the test kits retrieved? 3/17 (month/year)  
More than one date can be entered if parts of buildings were tested at different times

Comments: \_\_\_\_\_

6. How long were the test kits deployed in the rooms? 138 (days)  
More than one number can be noted if durations varied

Comments: \_\_\_\_\_

7. Was testing conducted over:  
a. Weekends? Yes ☒ No ☐ b. Holidays or Breaks? Yes ☒ No ☐

Comments: \_\_\_\_\_

8. Were all frequently-occupied rooms in contact with the ground tested? Yes ☐ No ☒  
This includes: 1) rooms on grade and; 2) rooms above unoccupied spaces that are in contact with the ground, such as rooms above storage rooms, crawl spaces, tunnels, and boiler rooms. If only a sample or portion of rooms were tested, then respond with 'no'.

Comments: 12 missing detectors

9. How many frequently-occupied rooms were tested? 49

Comments: missing 12 so only 37 results

10. How many frequently-occupied rooms were at or above four picocuries per liter ( $\geq 4$  pCi/L)? 2

Comments: \_\_\_\_\_

11. Were test results reported at a school board meeting? Yes ☒ No ☐  
If results will be reported at the next meeting, note in comments the month and year of the scheduled meeting in the comments section.

Comments: \_\_\_\_\_

**If one or more rooms  $\geq 4$  pCi/L, complete Questions 12-14.**

12. How many of the rooms  $\geq 4$  pCi/L had follow-up testing results that were:

a.  $\geq 4$  pCi/L \_\_\_\_\_ b.  $< 4$  pCi/L 1 c. not tested 1

'Follow-up' testing means testing done, prior to any radon mitigation, to confirm or verify initial test results in those rooms  $\geq 4$  pCi/L are, in fact,  $\geq 4$  pCi/L. If a continuous radon monitor (CRM) was used, indicate concentration during occupied times. If no follow-up testing was done, write the number of rooms not tested. If follow-up testing will be done in the future, note in comments the planned month and year in the comments section.

Comments: Room E113A was being remodeled when follow up testing was done

13. How many of the rooms  $\geq 4$  pCi/L:

a. were mitigated? 0 b. had other corrective measures? 0

'Mitigated' means building changes such as adjusting the existing HVAC system, increasing fresh air ventilation rate, balancing air flow to rooms, or other such modifications. 'Other corrective measures' could include moving staff out of a room and making a room unoccupied or trying to seal radon entry points. If mitigation or other corrective measure(s) will be completed in the future, note in comments the planned month and year in the comments section.

Comments: \_\_\_\_\_

14. How many rooms re-tested after mitigation were:

a.  $\geq 4$  pCi/L \_\_\_\_\_ b.  $< 4$  pCi/L \_\_\_\_\_ c. not tested \_\_\_\_\_

If post-mitigation re-testing will be completed in the future, note the planned month and year in the comments section.

Comments: \_\_\_\_\_







## School Radon Testing Reporting Form

### General Instructions

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4. If follow-up testing, mitigation, and/or post-mitigation testing is not yet completed, please submit a completed form and raw data when the work is completed.

### Contact Person for this Form

Name: Kain Smith

Phone: 952-496-5046

Email: KrSmith@Shakopee.k12.mn.us

Mailing Address: 1200 Shakopee Town Square Shakopee, MN 55379

**Radon Results for Each School Building**

1. District Name & Number: Shakopee Public Schools #720

2. School Building Name: East Jr. High

3. School Building Address: 1137 Marshall Rd.

4. What type of test kit was used? Manufacturer: Landauer Device name: Radtrak 2

Comments: \_\_\_\_\_

5. When were the test kits retrieved? 3/17 (month/year)  
More than one date can be entered if parts of buildings were tested at different times

Comments: \_\_\_\_\_

6. How long were the test kits deployed in the rooms? 138 (days)  
More than one number can be noted if durations varied

Comments: \_\_\_\_\_

7. Was testing conducted over:  
a. Weekends? Yes ☒ No ☐ b. Holidays or Breaks? Yes ☒ No ☐

Comments: \_\_\_\_\_

8. Were all frequently-occupied rooms in contact with the ground tested? Yes ☐ No ☒  
This includes: 1) rooms on grade and; 2) rooms above unoccupied spaces that are in contact with the ground, such as rooms above storage rooms, crawl spaces, tunnels, and boiler rooms. If only a sample or portion of rooms were tested, then respond with 'no'.

Comments: 4 missing detectors

9. How many frequently-occupied rooms were tested? 34

Comments: missing 4 so only 30 results

10. How many frequently-occupied rooms were at or above four picocuries per liter ( $\geq 4$  pCi/L)? 0

Comments: \_\_\_\_\_

11. Were test results reported at a school board meeting? Yes ☒ No ☐  
If results will be reported at the next meeting, note in comments the month and year of the scheduled meeting in the comments section.

Comments: \_\_\_\_\_

**If one or more rooms  $\geq 4$  pCi/L, complete Questions 12-14.**

12. How many of the rooms  $\geq 4$  pCi/L had follow-up testing results that were:

a.  $\geq 4$  pCi/L \_\_\_\_\_ b.  $< 4$  pCi/L \_\_\_\_\_ c. not tested \_\_\_\_\_

'Follow-up' testing means testing done, prior to any radon mitigation, to confirm or verify initial test results in those rooms  $\geq 4$  pCi/L are, in fact,  $\geq 4$  pCi/L. If a continuous radon monitor (CRM) was used, indicate concentration during occupied times. If no follow-up testing was done, write the number of rooms not tested. If follow-up testing will be done in the future, note in comments the planned month and year in the comments section.

Comments: \_\_\_\_\_

13. How many of the rooms  $\geq 4$  pCi/L:

a. were mitigated? \_\_\_\_\_ b. had other corrective measures? \_\_\_\_\_

'Mitigated' means building changes such as adjusting the existing HVAC system, increasing fresh air ventilation rate, balancing air flow to rooms, or other such modifications. 'Other corrective measures' could include moving staff out of a room and making a room unoccupied or trying to seal radon entry points. If mitigation or other corrective measure(s) will be completed in the future, note in comments the planned month and year in the comments section.

Comments: \_\_\_\_\_

14. How many rooms re-tested after mitigation were:

a.  $\geq 4$  pCi/L \_\_\_\_\_ b.  $< 4$  pCi/L \_\_\_\_\_ c. not tested \_\_\_\_\_

If post-mitigation re-testing will be completed in the future, note the planned month and year in the comments section.

Comments: \_\_\_\_\_





## School Radon Testing Reporting Form

### General Instructions

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4. If follow-up testing, mitigation, and/or post-mitigation testing is not yet completed, please submit a completed form and raw data when the work is completed.

### Contact Person for this Form

Name: Kain Smith

Phone: 952-496-5046

Email: KrSmith@Shakopee.k12.mn.us

Mailing Address: 1200 Shakopee Town Square Shakopee, MN 55379

### Radon Results for Each School Building

1. District Name & Number: Shakopee Public Schools #720

2. School Building Name: West Jr. High

3. School Building Address: 200 10<sup>th</sup> Ave E.

4. What type of test kit was used? Manufacturer: Landauer Device name: Radtrak 2

Comments: \_\_\_\_\_

5. When were the test kits retrieved? 3/17 (month/year)  
More than one date can be entered if parts of buildings were tested at different times

Comments: \_\_\_\_\_

6. How long were the test kits deployed in the rooms? 138 (days)  
More than one number can be noted if durations varied

Comments: \_\_\_\_\_

7. Was testing conducted over:  
a. Weekends? Yes ☒ No \_\_\_\_\_ b. Holidays or Breaks? Yes ☒ No \_\_\_\_\_

Comments: \_\_\_\_\_

8. Were all frequently-occupied rooms in contact with the ground tested? Yes \_\_\_\_\_ No ☒  
This includes: 1) rooms on grade and; 2) rooms above unoccupied spaces that are in contact with the ground, such as rooms above storage rooms, crawl spaces, tunnels, and boiler rooms. If only a sample or portion of rooms were tested, then respond with 'no'.

Comments: 6 missing detectors

9. How many frequently-occupied rooms were tested? 41

Comments: missing 6 so only 35 results

10. How many frequently-occupied rooms were at or above four picocuries per liter ( $\geq 4$  pCi/L)? 0

Comments: \_\_\_\_\_

11. Were test results reported at a school board meeting? Yes ☒ No \_\_\_\_\_  
If results will be reported at the next meeting, note in comments the month and year of the scheduled meeting in the comments section.

Comments: \_\_\_\_\_

**If one or more rooms  $\geq 4$  pCi/L, complete Questions 12-14.**

12. How many of the rooms  $\geq 4$  pCi/L had follow-up testing results that were:

- a.  $\geq 4$  pCi/L \_\_\_\_\_ b.  $< 4$  pCi/L \_\_\_\_\_ c. not tested \_\_\_\_\_

'Follow-up' testing means testing done, prior to any radon mitigation, to confirm or verify initial test results in those rooms  $\geq 4$  pCi/L are, in fact,  $\geq 4$  pCi/L. If a continuous radon monitor (CRM) was used, indicate concentration during occupied times. If no follow-up testing was done, write the number of rooms not tested. If follow-up testing will be done in the future, note in comments the planned month and year in the comments section.

Comments: \_\_\_\_\_

13. How many of the rooms  $\geq 4$  pCi/L:

- a. were mitigated? \_\_\_\_\_ b. had other corrective measures? \_\_\_\_\_

'Mitigated' means building changes such as adjusting the existing HVAC system, increasing fresh air ventilation rate, balancing air flow to rooms, or other such modifications. 'Other corrective measures' could include moving staff out of a room and making a room unoccupied or trying to seal radon entry points. If mitigation or other corrective measure(s) will be completed in the future, note in comments the planned month and year in the comments section.

Comments: \_\_\_\_\_

14. How many rooms re-tested after mitigation were:

- a.  $\geq 4$  pCi/L \_\_\_\_\_ b.  $< 4$  pCi/L \_\_\_\_\_ c. not tested \_\_\_\_\_

If post-mitigation re-testing will be completed in the future, note the planned month and year in the comments section.

Comments: \_\_\_\_\_







## School Radon Testing Reporting Form

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Phone: 952-496-5046

Email: KrSmith@Shakopee.k12.mn.us

Mailing Address: 1200 Shakopee Town Square Shakopee, MN 55379

### Radon Results for Each School Building

1. District Name & Number: Shakopee Public Schools #720
2. School Building Name: Sun Path Elementary
3. School Building Address: 2250 17th Ave E.
4. What type of test kit was used? Manufacturer: Landauer Device name: Radtrak 2

Comments: \_\_\_\_\_

5. When were the test kits retrieved? 3/17 (month/year)  
More than one date can be entered if parts of buildings were tested at different times

Comments: \_\_\_\_\_

6. How long were the test kits deployed in the rooms? 138 (days)  
More than one number can be noted if durations varied

Comments: \_\_\_\_\_

7. Was testing conducted over:  
a. Weekends? Yes ☒ No ☐ b. Holidays or Breaks? Yes ☒ No ☐

Comments: \_\_\_\_\_

8. Were all frequently-occupied rooms in contact with the ground tested? Yes ☐ No ☒  
This includes: 1) rooms on grade and; 2) rooms above unoccupied spaces that are in contact with the ground, such as rooms above storage rooms, crawl spaces, tunnels, and boiler rooms. If only a sample or portion of rooms were tested, then respond with 'no'.

Comments: 6 missing detectors

9. How many frequently-occupied rooms were tested? 32

Comments: missing 6 so only 26 results

10. How many frequently-occupied rooms were at or above four picocuries per liter ( $\geq 4$  pCi/L)? 0

Comments: \_\_\_\_\_

11. Were test results reported at a school board meeting? Yes ☒ No ☐  
If results will be reported at the next meeting, note in comments the month and year of the scheduled meeting in the comments section.

Comments: \_\_\_\_\_

**If one or more rooms  $\geq 4$  pCi/L, complete Questions 12-14.**

12. How many of the rooms  $\geq 4$  pCi/L had follow-up testing results that were:

- a.  $\geq 4$  pCi/L \_\_\_\_\_ b.  $< 4$  pCi/L \_\_\_\_\_ c. not tested \_\_\_\_\_

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Comments: \_\_\_\_\_

13. How many of the rooms  $\geq 4$  pCi/L:

- a. were mitigated? \_\_\_\_\_ b. had other corrective measures? \_\_\_\_\_

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Comments: \_\_\_\_\_

14. How many rooms re-tested after mitigation were:

- a.  $\geq 4$  pCi/L \_\_\_\_\_ b.  $< 4$  pCi/L \_\_\_\_\_ c. not tested \_\_\_\_\_

If post-mitigation re-testing will be completed in the future, note the planned month and year in the comments section.

Comments: \_\_\_\_\_





## School Radon Testing Reporting Form

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Phone: 952-496-5046

Email: KrSmith@Shakopee.k12.mn.us

Mailing Address: 1200 Shakopee Town Square Shakopee, MN 55379

**Radon Results for Each School Building**

1. District Name & Number: Shakopee Public Schools #720

2. School Building Name: Sweeney Elementary

3. School Building Address: 1001 Adams St. S.

4. What type of test kit was used? Manufacturer: Landauer Device name: Radtrak 2

Comments: \_\_\_\_\_

5. When were the test kits retrieved? 3/17 (month/year)  
More than one date can be entered if parts of buildings were tested at different times

Comments: \_\_\_\_\_

6. How long were the test kits deployed in the rooms? 138 (days)  
More than one number can be noted if durations varied

Comments: \_\_\_\_\_

7. Was testing conducted over:  
a. Weekends? Yes ☒ No ☐ b. Holidays or Breaks? Yes ☒ No ☐

Comments: \_\_\_\_\_

8. Were all frequently-occupied rooms in contact with the ground tested? Yes ☐ No ☒  
This includes: 1) rooms on grade and; 2) rooms above unoccupied spaces that are in contact with the ground, such as rooms above storage rooms, crawl spaces, tunnels, and boiler rooms. If only a sample or portion of rooms were tested, then respond with 'no'.

Comments: 3 missing detectors

9. How many frequently-occupied rooms were tested? 37

Comments: missing 3 so only 34 results

10. How many frequently-occupied rooms were at or above four picocuries per liter ( $\geq 4$  pCi/L)? 0

Comments: \_\_\_\_\_

11. Were test results reported at a school board meeting? Yes ☒ No ☐  
If results will be reported at the next meeting, note in comments the month and year of the scheduled meeting in the comments section.

Comments: \_\_\_\_\_

**If one or more rooms  $\geq 4$  pCi/L, complete Questions 12-14.**

12. How many of the rooms  $\geq 4$  pCi/L had follow-up testing results that were:

- a.  $\geq 4$  pCi/L \_\_\_\_\_ b.  $< 4$  pCi/L \_\_\_\_\_ c. not tested \_\_\_\_\_

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Comments: \_\_\_\_\_

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Comments: \_\_\_\_\_

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- a.  $\geq 4$  pCi/L \_\_\_\_\_ b.  $< 4$  pCi/L \_\_\_\_\_ c. not tested \_\_\_\_\_

If post-mitigation re-testing will be completed in the future, note the planned month and year in the comments section.

Comments: \_\_\_\_\_





March 7, 2018

Mr. Kain Smith  
Shakopee Public Schools  
1200 Town Square  
Shakopee, MN 55379



**RE: Shakopee Continuous Radon Monitoring Results  
IEA Project # 201710980**

Dear Mr. Smith:

As requested by Shakopee Public Schools, IEA assisted with continuous radon monitoring in the following district locations:

***Eagle Creek Elementary***

129, 113, 110, 108, 103, 104, 105, 111, 114, 101, 130, & Admin Office

***Jackson Elementary***

127

***Pearson Middle School***

108

***Shakopee High School***

Kitchen

The purpose of the monitoring was to document if radon levels were within an acceptable range during typical work hours.

## INTRODUCTION

Long-term radon testing, performed by IEA (see the report dated May 15, 2017), indicated radon levels above the EPA Action Level of 4.0 picoCuries per liter (pCi/L). The Minnesota Department of Health's (MDH's) *Best Practices for Radon Measurement in Minnesota Schools and Commercial Buildings* recommends follow-up testing in areas where initial testing results are at or above the action level. A continuous radon monitor (CRM) is recommended to determine if elevated levels are present during occupied times. Radon levels can fluctuate with the operation of the ventilation system as well as with changes in barometric pressure. The CRM provides hourly radon readings so that levels can be evaluated for periods while the room is occupied.

## EVALUATION CRITERIA

The MDH and the EPA have established a recommended Action Level in frequently occupied areas of 4.0 picoCuries per liter (pCi/L) for an annual average. The average radon level over each work day was compared to the Action Level.

INSTITUTE FOR ENVIRONMENTAL ASSESSMENT, INC.  
[www.ieasafety.com](http://www.ieasafety.com)

BROOKLYN PARK  
9201 West Broadway, #600  
Brooklyn Park, MN 55445  
763-315-7900 / FAX 763-315-7920  
800-233-9513

MANKATO  
610 North Riverfront Drive  
Mankato, MN 56001  
507-345-8818 / FAX 507-345-5301  
800-233-9513

ROCHESTER  
210 Woodlake Drive SE  
Rochester, MN 55904  
507-281-6664 / FAX 507-281-6695  
800-233-9513

BRAINERD  
601 NW 5<sup>th</sup> Street, Ste. #4  
Brainerd, MN 56401  
218-454-0703 / FAX 218-454-0703  
800-233-9513

MARSHALL  
1420 East College Drive  
Marshall, MN 56258  
507-476-3599 / FAX 507-537-6985  
800-233-9513

VIRGINIA  
5525 Emerald Avenue  
Mountain Iron, MN 55768  
218-410-9521  
800-233-9513

## RESULTS & DISCUSSION

From December 14, 2017 through February 26, 2018, the continuous radon monitoring was conducted in the district locations. The CRM was placed in each room for about 72 hours; the MDH recommends a minimum of 48 hours. The times of day when these rooms were not occupied (e.g., nights and weekends) were not included in the "Day Ranges" calculated averages. For comparison data, an "Overall Average" is displayed that did include all monitoring data. The hourly CRM data (hard copy tapes) is provided in Appendix A. The buildings floor plan maps with the locations of the continuous radon monitor locations marked are provided in Appendix B.

A summary of the continuous radon monitor data is provided in the following tables: *Long-Term testing results are shown in reference*

### Eagle Creek Elementary:

#### Continuous Radon Monitoring Results – December 14, 2017 to February 13, 2018

Date Range	Room #	<sup>1</sup> Day 1 Range (Ave.) (pCi/L)	<sup>1</sup> Day 2 Range (Ave.) (pCi/L)	<sup>1</sup> Day 3 Range (Ave.) (pCi/L)	<sup>2</sup> Overall Average (pCi/L)	Results from the Long-Term Testing (pCi/L)
12/14/17 to 12/19/17	129	0.39	0.91	0.86	5.1*	14.4
1/4/18 to 1/8/18	113	0.87	0.55	NA	4.9*	9.4
1/8/18 to 1/10/18	110	0.64	0.66	1.15	2.5	6.6
1/10/18 to 1/12/18	108	0.80	0.71	2.42	3.5	5.3
1/12/18 to 1/17/18	103	0.16	0.31	0.38	3.7*	5.0
1/17/18 to 1/19/18	104	0.34	1.11	NA	3.9	5.0
1/19/18 to 1/25/18	105	0.64	0.21	0.17	3.4*	4.9
1/25/18 to 1/31/18	111	0.26	0.56	0.33	4.2*	4.8
1/31/18 to 2/2/18	114	0.68	0.48	1.00	2.6	4.6
2/2/18 to 2/6/18	101	0.20	0.53	NA	3.3*	4.1
2/6/18 to 2/8/18	130	0.59	0.53	0.50	2.6	4.1
2/8/18 to 2/13/18	Admin Office	0.44	0.35	0.33	4.9*	5.1

<sup>1</sup>Readings during occupied times: 7 a.m. to 5 p.m.

<sup>2</sup>Overall average is average for entire test period including when room was not occupied

\*Includes an entire weekend, Saturday and Sunday

pCi/L – picoCuries per liter of air



**Jackson Elementary:**

**Continuous Radon Monitoring Results – February 13 to 15, 2018**

Date Range	Room #	<sup>1</sup> Day 1 Range (Ave.) (pCi/L)	<sup>1</sup> Day 2 Range (Ave.) (pCi/L)	<sup>1</sup> Day 3 Range (Ave.) (pCi/L)	<sup>2</sup> Overall Average (pCi/L)
2/13/18 to 2/15/18	127	1.16	1.74	NA	6.2
<sup>1</sup> Readings during occupied times: 7 a.m. to 5 p.m. <sup>2</sup> Overall average is average for entire test period including when room was not occupied					

pCi/L – picoCuries per liter of air

<i>Results from the Long-Term Testing (pCi/L)</i>
4.9 & 4.2

**Pearson Middle School:**

**Continuous Radon Monitoring Results – February 22 to 26, 2018**

Date Range	Room #	<sup>1</sup> Day 1 Range (Ave.) (pCi/L)	<sup>1</sup> Day 2 Range (Ave.) (pCi/L)	<sup>1</sup> Day 3 Range (Ave.) (pCi/L)	<sup>2</sup> Overall Average (pCi/L)
2/15/18 to 2/19/18	108	1.10	1.00	1.25	5.4*
<sup>1</sup> Readings during occupied times: 7 a.m. to 5 p.m. <sup>2</sup> Overall average is average for entire test period including when room was not occupied *Includes an entire weekend, Saturday and Sunday					

pCi/L – picoCuries per liter of air

<i>Result from the Long-Term Testing (pCi/L)</i>
4.1

**Shakopee High School:**

**Continuous Radon Monitoring Results – February 20 to 22, 2018**

Date Range	Room #	<sup>1</sup> Day 1 Range (Ave.) (pCi/L)	<sup>1</sup> Day 2 Range (Ave.) (pCi/L)	<sup>1</sup> Day 3 Range (Ave.) (pCi/L)	<sup>2</sup> Overall Average (pCi/L)
2/20/18 to 2/22/18	Kitchen	0.38	0.82	1.40	0.7
<sup>1</sup> Readings during occupied times: 7 a.m. to 5 p.m. <sup>2</sup> Overall average is average for entire test period including when room was not occupied					

pCi/L – picoCuries per liter of air

<i>Results from the Long-Term Testing (pCi/L)</i>
15.0

**Discussion of Results**

- The “Day Ranges” calculated averages show on average ranging from 0.16 to 1.85 picoCuries per liter (pCi/L); all below the EPA Action Level. These average radon levels are all over the working hours of the days during the work-week, the range of occupied time from 7am to 5 pm, in the locations denoted.
- The “Overall Average” that includes all monitoring data (including nights and weekends) ranged from 0.7 to 6.2 picoCuries per liter (pCi/L).

**CONCLUSIONS & RECOMMENDATIONS**

The results of the continuous radon monitoring indicate that radon levels in all the locations tested are below the action level during the working hours of the days during the work-week, the range of occupied time from 7am to 5 pm. The testing was performed during the Winter season of 2017/2018 so the testing is representative of “worst case” conditions.

**Recommendations:**

- Continue with the HVAC settings used for working hours of the days during the work-week, the range of occupied time from 7am to 5 pm, for these tested locations.
- For occupied time outside of the working hours of the days during the work-week, the range of occupied time from 7am to 5 pm, such as nights and weekends, when the buildings will be occupied for various functions in the tested rooms, IEA recommends implementing the HVAC settings used for working hours of the days during the work-week, the range of occupied time from 7am to 5 pm.
- The known methods for the radon reduction could include processes such as either diluting or pressurizing these areas to limit radon entry, or by implementing a combination of the two techniques. Increasing fresh air while keeping the return air unchanged or reduced can help pressurize work areas to limit radon entry. Knowledge of your systems and your buildings will guide your adjustments.
- For any future adjustments made to the HVAC system in the rooms tested, IEA recommends repeating this testing, keeping in mind to plan any retested to be during the winter heating season (i.e. under "closed" conditions) which is typically "worst case" conditions.
- Per Minnesota Statutes, section 123B.571, school districts are now required to report radon test results at a school board meeting and report results to the MDH. IEA is able to assist with presenting results to the school board, and the MDH reporting.

**GENERAL COMMENTS**


The analysis and opinions expressed in this report are based upon data obtained from continuous radon monitoring at district locations and are representative of those locations and time periods sampled. 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 radon testing practices. Other than as provided in the preceding sentence and in our proposal #6419 dated September 14, 2017, regarding radon testing services, including the General Conditions attached thereto, no warranties are extended or made. IEA appreciates the opportunity to submit this analysis to Shakopee Public Schools.

Should you require additional radon testing or have any questions regarding radon or any other health- or safety-related concerns, please do not hesitate to contact our office.

Sincerely,

Sincerely,  
IEA, INC.

  
Ben LaFond, CSPI  
EHS Account Manager

  
Karen Weiblen  
EHS/IEQ Consultant

BL/ep 3/07/18

Enc.

# **Appendix A**

*Continuous Radon Monitor  
Hourly Data*



< RADON TEST REPORT >

I/D                      Office

START DATE 2/08/18

START TIME 10:45

OPERATOR                     

SERIAL NO. CRM5106160  
C/F (CPM/pCi/l) .380  
KG (pCi/l) .5

Hr Conc. / L RH B/P deg  
pCi/l B % "Hg F

1	1.1	/	0	29.5	66
2	.6		0	29.5	66
3	.2		0	29.5	66
4	.1		0	29.5	66
5	.0		0	29.5	66
6	.1		0	29.5	66
7	.1		0	29.5	66
8	1.3		0	29.3	64
9	5.0		0	29.3	62
10	4.5		0	29.3	62
11	5.7		0	29.3	61
12	7.2		0	29.3	61
13	6.1		1	29.3	61
14	6.4		2	29.2	60
15	6.7		2	29.2	60
16	7.2		3	29.2	60
17	6.2		3	29.2	60
18	7.3		3	29.2	59
19	6.5		3	29.2	59
20	5.1		2	29.3	61
21	5.6		1	29.3	64
22	1.4		0	29.5	65
23	.4	/	0	29.3	66
24	.2		0	29.6	65
25	.2		0	29.5	66

26	.0	0	29.5	66
27	.0	0	29.5	66
28	.2	0	29.5	66
29	.0	0	29.5	66
30	.2	0	29.5	66
31	.5	0	29.3	65
32	1.8	0	29.3	64
33	3.4	0	29.3	63
34	5.4	0	29.3	62
35	6.1	0	29.3	61
36	8.4	0	29.3	61
37	9.2	0	29.3	61
38	8.1	0	29.3	61
39	8.9	0	29.2	60
40	8.2	1	29.2	60
41	9.2	1	29.2	60
42	8.6	1	29.2	60
43	9.8	1	29.2	59
44	8.2	2	29.2	59
45	9.3	2	29.2	59
46	8.0	2	29.2	59
47	8.3	2	29.2	59
48	7.8	2	29.2	59
49	9.1	2	29.2	59
50	9.6	2	29.0	59
51	9.2	3	29.2	59
52	8.8	3	29.0	59
53	9.7	3	29.0	59
54	9.6	3	29.0	59
55	7.7	3	29.0	59
56	6.5	3	29.0	59
57	7.3	3	29.0	59
58	7.3	3	29.0	59
59	7.9	3	29.0	60
60	8.4	3	28.9	59
61	7.1	3	28.9	59
62	7.2	3	28.9	60
63	6.4	3	28.9	60
64	8.6	3	28.9	60
65	6.9	3	28.9	60
66	7.9	2	28.9	60
67	5.4	2	28.9	60
68	6.8	2	28.9	60
69	6.0	2	28.9	60
70	7.6	2	28.9	60
71	7.6	2	28.9	60
72	6.2	2	28.9	60
73	4.9	2	28.9	60

Admin Office Cont.

74	4.9	2	28.9	60
75	6.5	2	28.9	60
76	6.0	2	29.0	61
77	5.6	2	29.0	61
78	6.9	2	29.0	61
79	5.8	3	29.2	61
80	5.9	3	29.2	61
81	5.3	3	29.2	61
82	5.6	3	29.3	61
83	5.7	3	29.3	61
84	4.3	3	29.3	61
85	4.4	3	29.5	61
86	4.6	3	29.5	61
87	4.5	3	29.5	61
88	4.2	3	29.5	61
89	4.8	3	29.6	61
90	4.3	3	29.6	61
91	4.3	3	29.6	61
92	2.3	2	29.6	62
93	1.4	0	29.6	64
94	1.4	0	29.9	66
95	.4	0	29.9	67
96	.5	0	29.9	67
97	.7	0	29.9	67
98	.0	0	29.9	67
99	.5	0	29.9	68
100	.6	0	29.9	68
101	.2	0	29.9	66
102	.0	0	29.9	60
103	.2	0	29.9	66
104	.2	0	29.9	66
105	.5	0	29.8	66
106	.0	0	29.8	66
107	1.9	0	29.6	64
108	4.4	0	29.6	63
109	5.3	0	29.6	62
110	7.1	0	29.6	61
111	8.6	0	29.6	61
112	7.2	0	29.5	60
113	8.6	0	29.5	60
114	7.7	0	29.3	50
115	8.8	0	29.3	59
116	6.1	0	29.5	61
117	3.5	0	29.5	64

Elapsed Time (min.) 7020  
Total Count 14594  
Avg. (pCi/l) 4.9

=====

< RADON TEST REPORT >

I/D Eagle Brook Classroom 1  
(01)

START DATE 2/02/18

START TIME 10:04

OPERATOR JB Petula

SERIAL NO.- CRM5106160

C/F (CPM/pCi/l) .380

BKG (pCi/l) .5

-----  
Hr Conc. / L RH B/P deg  
pCi/l B % "Hg F  
-----

1	.4	0	29.6	70
2	.3	0	29.6	70
3	.4	0	29.6	70
4	.0	0	29.6	70
5	.0	0	29.5	69
6	.2	0	29.3	69
7	.0	0	29.3	69
8	.3	0	29.0	68
9	1.2	0	29.3	66
10	2.9	0	29.3	60
11	3.1	0	29.2	66
12	4.5	0	29.2	60
13	4.5	1	29.0	65
14	5.2	1	29.0	65
15	5.6	2	29.0	65
16	4.6	2	29.0	64
17	5.4	2	29.0	64
18	5.7	2	28.9	64
19	5.4	2	28.9	64
20	5.6	2	28.9	64
21	5.1	2	28.9	64
22	4.6	2	28.9	64
23	4.7	3	28.9	64
24	4.6	3	28.7	64
25	4.0	3	28.7	64
26	3.6	3	28.7	64
27	5.5	3	28.7	64
28	5.8	3	28.7	64
29	5.9	3	28.7	64
30	5.5	3	28.7	64
31	5.2	4	28.7	64
32	4.9	4	28.7	64
33	4.7	4	28.7	63
34	5.5	4	28.9	63
35	3.6	4	28.9	63
36	3.3	4	28.9	63
37	3.4	4	28.9	64
38	3.4	4	29.0	64
39	2.6	4	29.0	64
40	3.8	4	29.0	64

41	3.3	4	29.0	64
42	2.3	4	29.0	64
43	2.7	4	29.2	64
44	2.1	3	29.2	64
45	2.4	3	29.2	64
46	3.0	3	29.2	64
47	2.0	3	29.3	64
48	3.1	3	29.3	64
49	2.7	3	29.3	65
50	3.0	3	29.3	65
51	3.1	3	29.3	66
52	4.7	3	29.3	66
53	4.7	3	29.3	66
54	5.5	3	29.3	66
55	6.4	3	29.3	66
56	5.6	4	29.2	65
57	6.9	4	29.2	64
58	6.3	4	29.2	64
59	7.0	5	29.2	63
60	5.8	4	29.2	64
61	4.7	3	29.2	64
62	5.4	3	29.2	64
63	4.2	3	29.0	64
64	4.7	2	29.0	64
65	5.6	2	29.0	64
66	4.9	2	29.0	65
67	5.3	2	29.0	64
68	4.5	2	29.0	60
69	2.6	0	29.3	71
70	1.6	0	29.3	73
71	1.4	0	29.5	75
72	.7	0	29.5	76
73	1.1	0	29.5	75
74	.5	0	29.3	72
75	.5	0	29.3	72
76	.0	0	29.3	72
77	.2	0	29.3	71
78	.2	0	29.3	70
79	.2	0	29.3	70
80	.5	0	29.2	69
81	1.3	0	29.2	67
82	1.9	1	29.3	66
83	2.0	2	29.3	60
84	1.8	2	29.2	65
85	2.7	2	29.2	65
86	3.1	2	29.3	64
87	3.9	2	29.3	64
88	3.7	3	29.3	64
89	3.1	3	29.3	64
90	3.5	3	29.3	64
91	3.3	3	29.3	63
92	3.1	2	29.3	64
93	2.1	0	29.6	70
94	1.4	0	29.6	73

Elapsed Time (min.) 5640  
Total Count 8328  
Avg. (pCi/l) 3.3  
=====



< RADON TEST REPORT >

1/D EC Classroom 103

START DATE 1/12/18

START TIME 12:31

OPERATOR DDP

SERIAL NO.- CRM510S160

WF (CPM/PC1/1) .380

WG (PC1/1) .5

=====

Hr	Conc.	/	L	RH	B/P	des
	PC1/1		B	%	"Hg	F

1	.2	/	0	29.6	70	
2	.2		0	29.6	69	
3	.1		0	29.6	69	
4	.1		0	29.6	69	
5	.2		0	29.8	67	
6	1.7		0	29.6	65	
7	3.3		0	29.6	64	
8	5.0		0	29.6	62	
9	5.8		0	29.6	62	
10	7.6		1	29.6	61	
11	6.5		2	29.6	61	
12	7.2		2	29.5	60	
13	7.5		3	29.5	60	
14	7.2		3	29.5	59	
15	5.7		3	29.5	60	
16	4.7		3	29.6	61	
17	4.4		2	29.6	61	
18	4.8		2	29.6	62	
19	4.5		2	29.6	62	
20	4.0		2	29.6	62	
21	3.7		2	29.6	62	
22	4.4		2	29.6	63	
23	3.9		2	29.6	62	
24	3.4		2	29.6	62	
25	4.4		2	29.6	62	
26	6.0		2	29.6	62	
27	5.5		2	29.6	62	
28	5.1		2	29.6	62	
29	4.2		2	29.6	62	
30	4.9		2	29.6	62	
31	3.8		2	29.6	62	
32	4.4		2	29.6	63	
33	3.2		2	29.6	63	
34	3.4		2	29.6	63	
35	4.9		2	29.6	63	
36	4.7		2	29.6	63	
37	4.1		2	29.5	63	
38	3.9		2	29.5	63	
39	4.8		2	29.5	63	
40	5.0		2	29.5	63	

41	5.2	2	29.5	63	
42	4.5	2	29.3	63	
43	4.5	2	29.3	63	
44	5.0	2	29.3	63	
45	5.3	2	29.3	63	
46	5.3	2	29.3	63	
47	4.9	2	29.3	63	
48	5.9	2	29.2	63	
49	5.5	2	29.2	63	
50	6.0	2	29.0	63	
51	5.6	2	29.0	63	
52	5.2	2	29.0	63	
53	5.3	2	29.0	63	
54	6.8	2	29.0	63	
55	5.6	3	29.0	63	
56	5.4	3	29.0	63	
57	6.1	3	29.0	63	
58	5.1	3	29.0	63	
59	4.5	3	29.0	63	
60	3.7	3	29.2	63	
61	3.8	3	29.2	63	
62	4.0	3	29.2	64	
63	3.7	3	29.2	64	
64	4.0	3	29.2	63	
65	4.1	3	29.3	64	
66	3.3	2	29.3	65	
67	1.8	0	29.5	66	
68	.8	0	29.5	60	
69	.7	0	29.5	69	
70	.3	0	29.5	69	
71	.2	0	29.6	70	
72	.1	0	29.6	71	
73	.2	0	29.6	72	
74	.3	0	29.6	73	
75	.0	0	29.6	72	
76	.1	0	29.8	71	
77	.4	0	29.6	68	
78	1.2	0	29.6	65	
79	2.1	0	29.5	64	
80	4.5	0	29.5	62	
81	5.7	0	29.5	61	
82	4.9	0	29.6	61	
83	7.1	1	29.5	60	
84	7.1	2	29.5	60	
85	5.1	2	29.5	59	
86	5.0	2	29.5	60	
87	5.0	2	29.6	61	
88	4.1	1	29.6	61	
89	4.1	1	29.6	62	
90	3.2	0	29.6	64	
91	1.6	0	29.8	66	
92	1.1	0	29.8	68	
93	.2	0	29.8	69	
94	.1	0	29.9	71	
95	.2	0	29.9	72	
96	.1	0	29.9	72	
97	.2	0	29.9	71	
98	.3	0	29.8	70	

1	.3
2	.2
3	1.1
4	2.3
5	4.0
6	4.6
7	4.5
8	5.6
9	6.9
10	8.0
11	8.1
12	6.0
13	6.7
14	6.1
15	6.9
16	4.3
17	1.3
18	.9
19	1.3
20	.7
21	.2
22	.3

```

Elapsed Time (min.)      7200
Total Count              11756
Avg. (PCI/l)            3.7
=====

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< RADON TEST REPORT >

2 Creek Classroom #104

RT DATE 1/17/18

RT TIME 12:42

OPERATOR \_\_\_\_\_

IAL NO.- CRM5106160

(CPM/pCi/l) .380

(pCi/l) .5

Conc.	/	L	RH	B/P	deg
pCi/l		B	%	"Hg	F
.6	/	0	29.3	69	
.1		1	29.3	69	
.3		1	29.3	68	
.1		2	29.2	68	
.6		2	29.2	66	
1.2		3	29.0	65	
1.6		3	29.0	64	
2.9		4	29.0	64	
4.4		5	29.0	63	
5.8		6	29.0	62	
6.1		6	29.0	61	
7.9		7	29.0	61	
7.7		7	29.0	61	
8.5		7	29.0	61	
9.5		8	28.9	60	
8.2		8	28.7	60	
8.3		8	28.7	60	
7.3		8	28.9	61	
6.3		7	28.9	64	
3.3		6	28.9	65	
2.6		8	29.0	66	
1.4		10	29.0	68	
.9		10	29.0	69	
.5		9	29.0	68	
.8		11	28.9	69	
.2		13	28.9	68	
.4		13	28.9	67	

28	.5	13	28.9	67
29	.5	13	28.9	66
30	.5	13	28.9	66
31	1.9	13	28.7	65
32	2.2	14	28.7	64
33	4.5	14	28.7	64
34	4.1	14	28.7	63
35	6.2	14	28.7	62
36	6.5	15	28.7	62
37	6.0	15	28.7	62
38	7.6	15	28.7	61
39	9.1	15	28.7	61
40	8.8	15	28.7	61
41	7.5	15	28.7	61
42	8.2	14	28.6	62
43	5.2	13	28.6	64
44	3.1	12	28.7	66
45	2.2	13	28.7	68
46	.9	14	28.7	69
47	.5	14	28.7	68

Elapsed Time (min.) 2820  
Total Count 4785  
Avg. (pCi/l) 3.9

=====

< RADON TEST REPORT >

L/D Egle Creek Classroom  
105

START DATE 1/13/18

START TIME 12:39

OPERATOR JD

SERIAL NO.- GRM5106100  
C/F (CPM/PCi/l) .380  
BKG (PCi/l) .5

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Hr	Conc. PCi/l	/ L RH B %	B/P deg "Hg F
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1	.9	/	17 28.6 66
2	.7		19 28.5 64
3	.5		20 28.5 64
4	.5		21 28.5 64
5	.6		22 28.6 63
6	.9		23 28.6 62
7	1.1		23 28.6 62
8	2.3		23 28.6 61
9	2.9		22 28.6 61
10	4.6		22 28.7 61
11	4.4		22 28.7 61
12	4.7		22 28.7 61
13	5.4		22 28.6 60
14	4.9		22 28.6 60
15	6.1		21 28.6 60
16	6.2		21 28.6 60
17	6.5		21 28.6 59
18	6.5		21 28.7 59
19	7.3		21 28.7 59
20	8.2		21 28.7 59
21	8.8		21 28.7 58
22	7.7		21 28.7 58
23	6.0		20 28.7 58
24	5.4		20 28.7 58
25	5.8		20 28.7 58
26	5.1		20 28.7 58
27	5.9		20 28.7 58
28	6.6		20 28.7 58
29	6.6		21 28.7 58
30	5.1		21 28.7 59
31	5.1		21 28.7 59
32	5.8		21 28.7 59
33	4.6		22 28.7 59
34	4.3		22 28.7 58
35	4.3		22 28.9 59
36	5.5		22 28.7 59
37	4.0		22 28.7 59
38	4.1		22 28.7 59
39	5.4		21 28.9 59

40	3.9	22 28.7 58
41	4.2	22 28.7 59
42	5.4	22 28.7 58
43	3.8	22 28.7 59
44	4.5	22 28.9 59
45	4.7	22 28.9 59
46	4.6	21 28.9 60
47	4.5	21 28.7 59
48	5.2	21 28.7 59
49	4.4	22 28.7 59
50	4.1	22 28.7 59
51	4.0	22 28.7 60
52	4.8	22 28.7 59
53	3.7	22 28.7 59
54	4.5	22 28.7 59
55	4.5	22 28.7 60
56	3.4	22 28.7 59
57	4.0	22 28.7 59
58	4.5	22 28.7 59
59	3.5	22 28.7 60
60	4.0	21 28.7 60
61	4.6	22 28.7 59
62	4.0	22 28.7 59
63	3.9	21 28.7 60
64	5.0	22 28.6 59
65	4.5	22 28.6 59
66	3.0	21 28.7 62
67	1.3	18 28.7 65
68	.5	16 28.9 66
69	.6	15 28.9 67
70	.1	15 28.9 66
71	.0	15 28.9 66
72	.0	16 28.7 66
73	.0	16 28.7 66
74	.0	17 28.7 66
75	.1	17 28.7 65
76	.2	17 28.7 65
77	.6	17 28.7 63
78	.6	18 28.7 61
79	1.5	19 28.7 61
80	2.9	20 28.6 60
81	3.5	20 28.6 60
82	4.6	20 28.6 60
83	5.0	20 28.6 59
84	5.5	21 28.6 59
85	6.0	21 28.7 58
86	7.1	21 28.7 58
87	5.5	21 28.7 58
88	6.1	21 28.7 58
89	6.2	21 28.7 58
90	5.1	17 28.9 60
91	2.0	12 29.0 64
92	.7	9 29.0 65
93	.0	7 29.2 65
94	.6	6 29.2 66
95	.0	5 29.2 66
96	.0	5 29.2 66
97	.2	5 29.2 66
98	.0	5 29.2 66

105 cont.

99	.1	5 29.0	55
100	.1	5 29.0	55
101	.0	5 29.0	55
102	1.1	3 29.2	61
103	1.7	3 29.2	61
104	2.3	10 29.0	60
105	3.7	11 29.0	50
106	5.0	11 29.0	50
107	4.7	12 29.0	59
108	7.2	12 29.0	59
109	5.8	12 29.0	59
110	7.7	13 29.0	58
111	6.9	14 29.0	58
112	5.9	14 29.0	58
113	7.7	14 29.0	58
114	5.1	12 29.2	60
115	1.7	8 29.2	64
116	.9	7 29.3	66
117	.5	7 29.3	66
118	.1	7 29.3	66
119	.4	8 29.3	66
120	.1	8 29.2	65
121	.2	10 29.3	65
122	.0	11 29.2	65
123	.0	12 29.2	64
124	.1	12 29.2	64
125	.1	13 29.2	63
126	.6	15 29.2	62
127	1.4	16 29.2	61
128	1.6	17 29.2	61
129	4.0	17 29.0	60
130	3.9	17 29.0	60
131	4.2	17 29.0	59
132	5.1	17 29.0	59
133	5.0	17 29.0	59
134	7.7	18 29.0	59
135	7.4	18 29.0	59
136	7.0	18 29.0	59
137	6.4	18 29.0	59
138	5.0	17 29.2	60
139	2.1	14 29.2	64
140	.6	12 29.3	56
141	.0	14 29.3	50
142	.2	16 29.3	66
143	.2	15 29.3	66

Elapsed Time (min.) 8530  
 Total Count 13062  
 W. (PCI/L) 3.4  
 =====



< RADON TEST REPORT >

I/D Barryman 108 e.e.

START DATE 1/10/18

START TIME 12:16

OPERATOR BAR

SERIAL NO. - CRM5106160  
C/F (CPM/pCi/l) .380  
BKG (pCi/l) .5

Hr	Conc. / L	RH	B/P	deg
pCi/l	B	%	"Hg	F
1	.5	22	28.6	67
2	.9	22	28.6	67
3	.9	21	28.6	67
4	1.0	21	28.6	67
5	.7	22	28.6	67
6	.1	23	28.6	67
7	.5	23	28.6	67
8	.9	23	28.6	67
9	1.7	23	28.6	67
10	2.6	23	28.6	67
11	2.6	22	28.6	67
12	3.9	22	28.7	67
13	6.2	21	28.7	67
14	8.2	21	28.7	67
15	9.0	20	28.7	67
16	8.5	20	28.7	67
17	11.0	20	28.9	67
18	10.0	19	28.9	67

19	6.5	17	28.9	66
20	3.9	15	28.9	66
21	1.6	13	29.0	66
22	.8	11	29.0	66
23	.4	9	29.0	66
24	.3	8	29.0	66
25	.1	7	29.0	66
26	.0	6	29.0	66
27	.0	5	29.2	66
28	.0	4	29.2	66
29	.0	4	29.2	66
30	.5	5	29.2	66
31	1.2	5	29.2	66
32	2.0	6	29.3	66
33	4.1	6	29.3	66
34	4.8	7	29.3	66
35	4.6	7	29.3	66
36	6.1	7	29.5	66
37	8.1	7	29.5	66
38	6.5	7	29.5	66
39	7.9	7	29.5	66
40	7.9	7	29.5	66
41	7.5	7	29.5	66
42	7.3	7	29.5	66
43	4.7	6	29.5	66
44	3.6	4	29.6	66
45	1.9	3	29.6	66
46	1.3	2	29.6	66
47	.6	1	29.6	66

Elapsed Time (min.) 2620  
Total Count 4313  
vs. (pCi/l) 3.5

< RADON TEST REPORT >

I/D Classroom 110

START DATE 1/08/18

START TIME 8:21

OPERATOR DSP

SERIAL NO.-- CRM5106160  
C/F (CPM/pCi/l) .380  
BKG (pCi/l) .5

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Hr	Conc.	/ L RH	E/P deg
--	pCi/l	B= %	"Hg F

1	2.2	6	29.0 69
2	1.5	10	29.2 69
3	.3	10	29.2 69
4	.5	12	29.3 70
5	.3	11	29.2 71
6	.2	12	29.3 72
7	.3	13	29.3 72
8	.0	13	29.3 73
9	.1	10	29.3 72
10	.3	9	29.3 71
11	.7	9	29.2 70
12	.8	9	29.2 69
13	1.6	10	29.2 69
14	3.1	10	29.2 69
15	3.8	10	29.2 69
16	4.0	10	29.2 68
17	5.4	10	29.2 68
18	5.7	10	29.2 68
19	6.4	10	29.2 68
20	7.4	10	29.2 68
21	7.0	10	29.2 68
22	7.1	10	29.2 68
23	6.5	9	29.2 68

24	2.7	10	29.2 67
25	2.0	11	29.2 67
26	.2	14	29.2 68
27	.6	14	29.2 68
28	.6	16	29.2 69
29	.0	16	29.0 69
30	.5	18	29.2 70
31	.4	20	29.2 72
32	.5	18	29.2 74
33	.4	14	29.2 73
34	1.4	13	29.2 72
35	1.7	13	29.0 71
36	2.0	14	29.0 70
37	2.2	14	28.9 69
38	3.4	14	28.9 69
39	4.0	13	28.9 69
40	3.8	13	28.9 69
41	4.0	13	28.9 68
42	4.9	13	28.9 68
43	4.5	13	28.9 68
44	4.8	13	28.7 68
45	4.0	13	28.7 67
46	4.6	13	28.7 67
47	3.3	14	28.7 67
48	1.9	15	28.7 67
49	1.6	17	28.7 67
50	.7	20	28.7 69

Elapsed Time (min.) 3000  
Total Count 3509  
Ava. (pCi/l) 2.5

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< RADON TEST REPORT >

I/D E.L. Clessman III

START DATE 1/25/18

START TIME 12:12

OPERATOR JP Petrich

SERIAL NO. - CRM5106160  
C/F (CPM/PCi/l) .380  
BKG (PCi/l) .5

HR	Conc. PCi/l	/ L RH B %	B/D "He	dec F
1	.3	17	29.2	66
2	.2	18	29.2	66
3	.0	19	29.2	66
4	.7	20	29.2	66
5	.1	18	29.0	65
6	.7	18	29.0	64
7	1.5	19	29.0	64
8	2.3	19	29.0	64
9	3.4	20	29.0	63
10	4.4	20	28.9	62
11	4.4	20	28.9	61
12	6.5	20	28.9	61
13	5.6	20	28.9	61
14	6.4	20	28.7	61
15	7.2	20	28.7	61
17	7/9	31	39/7	71
17	9/5	31	39/7	71
19	9/3	31	39/7	71
19	5/7	16	28.7	65
20	2.1	13	28.7	69
21	1.1	12	28.9	70
22	.8	16	28.7	69
23	.5	18	28.7	68
24	.5	18	28.7	67
25	.3	21	28.7	66
26	.6	25	28.7	67
27	.7	27	28.7	68
28	.2	28	28.7	68
29	.3	27	28.7	66
30	.6	26	28.7	66
31	2.5	26	28.7	65
32	3.6	27	28.7	64
33	6.1	27	28.7	64
34	8.3	27	28.7	63
35	8.3	27	28.7	63
36	7.7	27	28.9	62
37	6.6	27	28.9	62
38	7.4	26	28.9	62
39	6.8	26	28.9	61
40	8.6	26	28.9	61
41	7.8	25	29.0	61
42	7.7	25	29.0	61
43	7.6	25	29.0	61
44	7.8	24	29.0	61
45	8.9	24	29.0	61
46	6.8	24	29.0	61

48	8.7	23	29.0	61
49	7.5	23	29.0	61
50	7.5	23	29.0	61
51	7.8	22	29.0	61
52	6.6	22	29.0	62
53	7.3	21	29.0	62
54	8.9	22	29.2	61
55	8.5	22	29.2	61
56	8.4	22	29.2	61
57	7.1	22	29.0	60
58	7.5	22	29.0	60
59	7.1	22	29.0	60
60	6.7	22	29.0	60
61	6.2	21	29.0	59
62	6.6	21	29.2	59
63	6.7	21	29.2	59
64	5.3	21	29.2	59
65	5.4	21	29.2	58
66	6.8	21	29.2	58
67	6.0	20	29.2	59
68	4.5	16	29.3	61
69	4.2	18	29.3	61
70	3.5	17	29.5	61
71	3.7	17	29.3	60
72	4.0	17	29.5	61
73	4.7	17	29.3	60
74	3.8	17	29.3	60
75	4.1	17	29.3	60
76	3.3	16	29.5	61
77	4.3	16	29.3	60
78	5.2	16	29.3	59
79	4.1	16	29.3	60
80	2.8	15	29.5	61
81	4.2	15	29.3	60
82	3.5	15	29.3	60
83	4.1	15	29.3	59
84	4.3	15	29.3	60
85	4.1	14	29.3	60
86	3.4	14	29.3	60
87	4.3	13	29.5	60
88	4.3	13	29.3	59
89	3.6	13	29.3	60
90	4.4	13	29.3	60
91	2.8	10	29.5	63
92	1.6	7	29.6	66
93	.9	3	29.6	67
94	.9	5	29.6	69
95	.3	4	29.8	71
96	.1	2	29.6	69
97	.1	2	29.6	67
98	.2	1	29.6	67
99	.0	1	29.6	67
100	.2	3	29.6	68
101	.1	2	29.6	66
102	.5	3	29.5	65
103	1.5	4	29.5	64
104	2.0	5	29.5	63
105	3.0	6	29.5	62
106	3.9	7	29.5	61
107	4.6	7	29.5	61
108	5.4	8	29.5	61
109	4.2	8	29.3	60
110	5.9	8	29.2	60
111	6.3	9	29.2	59
112	7.3	9	29.2	59
113	6.9	9	29.2	59
114	7.5	9	29.2	59
115	4.7	6	29.3	63



118	1.5	3	29.5	70
119	.9	3	29.3	70
120	.5	2	29.2	67
121	.4	3	29.2	67
122	.3	5	29.0	67
123	.7	4	29.0	66
124	.3	6	28.9	66
125	.1	6	28.7	65
126	.8	7	28.7	64
127	1.9	7	28.7	63
128	3.9	8	28.7	62
129	4.7	8	28.6	61
130	5.5	9	28.6	61
131	6.3	9	28.6	61
132	5.9	9	28.6	61
133	7.6	10	28.5	60
134	7.0	10	28.5	60
135	8.3	10	28.5	60
136	7.9	11	28.5	60
137	6.8	11	28.5	60
138	7.9	11	28.5	60
139	4.5	10	28.7	64
140	2.6	8	28.9	67

Elapsed Time (min.) 8400  
 Total Count 15321  
 Ave. (pCi/l) 4.2

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111 Cont.

# < RADON TEST REPORT >

I/D Classroom 113 Eagle

START DATE 1/04/18

START TIME 8:21

OPERATOR SSP

SERIAL NO. - CRM5106160  
C/F (CPM/pCi/l) .380  
BKG (pCi/l) .5

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Hr	Conc.	/	L RH	B/P	deg
	pCi/l		B %	"Hg	F

1	2.0	/	1	29.6	66
2	.9		2	29.5	68
3	.6		2	29.6	70
4	1.0		2	29.6	71
5	1.3		2	29.5	72
6	.4		1	29.6	72
7	.2		0	29.6	71
8	.3		1	29.6	70
9	.6		0	29.5	67
10	.5		0	29.3	64
11	1.3		0	29.3	62
12	1.5		1	29.3	61
13	2.2		1	29.3	60
14	2.8		2	29.3	59
15	3.7		2	29.3	58
16	3.8		2	29.3	58
17	3.8		3	29.3	58
18	3.8		3	29.3	58
19	3.5		3	29.3	57
20	3.2		4	29.3	57
21	3.7		3	29.3	53
22	3.7		3	29.3	58
23	2.7		1	29.5	62
24	2.8		0	29.5	65
25	1.2		0	29.6	66
26	1.2		0	29.6	68
27	.5		0	29.6	67
28	.5		0	29.6	66
29	.5		0	29.6	66
30	.3		0	29.6	66
31	.1		0	29.6	66
32	.0		0	29.6	65
33	.4		0	29.6	65
34	.8		0	29.6	62
35	1.1		0	29.6	61
36	2.0		0	29.5	60
37	2.9		0	29.5	58
38	4.9		1	29.5	58
39	5.8		2	29.5	57
40	6.9		2	29.3	56
41	7.4		3	29.3	55
42	7.3		3	29.3	55
43	7.3		3	29.3	55
44	7.3		3	29.3	55
45	6.6		3	29.5	58
46	5.1		3	29.5	58
47	6.1		3	29.5	58
48	7.7		3	29.5	58
49	6.3		3	29.5	59
50	6.3		3	29.3	58
51	6.3		3	29.3	58
52	5.7		3	29.3	58
53	6.7		3	29.3	58
54	7.9		3	29.2	58
55	7.5		3	29.2	58
56	6.7		3	29.2	59
57	8.8		3	29.2	59
58	7.4		3	29.2	58
59	7.9		4	29.0	59
60	8.1		4	29.0	58
61	6.1		4	29.0	58
62	6.7		4	28.9	58
63	7.3		4	28.9	58
64	6.6		4	28.9	58
65	7.8		4	28.9	58
66	7.9		4	28.9	58
67	7.5		5	28.9	58
68	6.9		5	28.7	58
69	7.5		5	28.7	58
70	8.0		5	28.7	58
71	7.8		5	28.7	58
72	7.4		5	28.7	58
73	7.6		5	28.7	58
74	6.5		5	28.7	58
75	6.7		5	28.7	58
76	8.1		5	28.7	58
77	7.0		5	28.7	58
78	7.0		5	28.6	58
79	6.8		6	28.7	58
80	7.8		5	28.7	60
81	6.2		6	28.7	58
82	6.0		6	28.7	58
83	7.2		6	28.7	59
84	7.1		7	28.7	59
85	7.2		7	28.7	58
86	7.4		7	28.7	59
87	6.7		8	28.7	58
88	6.8		8	28.7	58
89	7.3		8	28.7	58
90	6.8		8	28.7	58
91	5.8		9	28.7	58
92	6.8		8	28.7	59
93	6.9		9	28.7	58
94	4.3		9	28.7	59
95	5.0		8	28.9	62

Elapsed Time (min.) 5700  
Total Count 11777  
Avg. (pCi/l) 4.9

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# < RADON TEST REPORT >

*Eagle Creek Classroom 114*

ART DATE 1/31/18

ART TIME 3:37

ERATOR *[Signature]*

RIAL NO. CRM510G160  
F (CPM/PCI/1) .380  
G (PCI/1) .5

Conc. / L RH B/P des  
PCI/1 B % "Hg F

1	1.2	8	28.9	67
2	.9	10	28.9	69
3	.7	9	29.0	70
4	1.0	7	29.0	70
5	.8	7	29.0	70
6	.4	10	29.0	70
7	.7	10	29.0	71
8	.5	10	29.0	71
9	.2	8	28.9	70
10	.4	8	28.9	69
11	.8	8	28.9	68
12	.9	8	28.9	67
13	1.3	8	29.0	67
14	1.3	9	29.0	67
15	2.2	9	29.2	67
16	2.7	9	29.2	67
17	3.7	9	29.2	67
18	4.4	9	29.2	67
19	5.2	9	29.2	67
20	5.4	9	29.3	67
21	6.1	8	29.3	67
22	5.7	5	29.3	66
23	3.3	3	29.3	66
24	2.2			

25	.6	3	29.5	66
26	.9	4	29.5	68
27	.8	3	29.5	70
28	.6	1	29.6	70
29	.3	0	29.5	69
30	.1	1	29.6	71
31	.2	2	29.6	72
32	.0	2	29.6	72
33	.5	1	29.6	70
34	.8	0	29.5	69
35	1.6	1	29.5	69
36	2.2	2	29.5	68
37	3.4	2	29.5	68
38	4.4	2	29.6	68
39	5.1	2	29.6	68
40	5.7	2	29.6	67
41	6.8	3	29.6	67
42	6.5	3	29.6	67
43	7.5	3	29.6	67
44	7.5	3	29.6	67
45	7.4	3	29.6	67
46	6.9	2	29.6	66
47	3.8	1	29.6	66
48	1.7	0	29.6	66
49	1.0	0	29.6	66

Elapsed Time (min.) 2940  
Total Count 3550  
Avg. (PCI/1) 2.6

## &lt; RADON TEST REPORT &gt;

129

I/D \_\_\_\_\_

START DATE 12/14/17

START TIME 9:59

OPERATOR \_\_\_\_\_

SERIAL NO.-- CRM5100160

C/F (CFM/pCi/l) .380

BKG (pCi/l) .5

=====

Hr	Conc.	/ L RH	B/P deg
	pCi/l	B % "Hg	F

-----

46	7.8	17 28.7	61
47	7.2	18 28.7	61
48	7.1	18 28.9	61
49	7.0	18 28.9	61
50	6.7	18 28.9	61
51	6.5	18 28.9	61
52	5.8	19 28.9	61
53	5.3	19 28.9	61
54	6.6	19 29.0	61
55	7.2	19 28.9	60
56	5.9	19 28.9	60
57	7.5	19 28.9	60
58	7.6	19 28.9	60
59	6.4	19 28.9	60
60	6.6	19 28.9	60
61	5.8	19 28.9	59
62	6.2	19 28.9	59
63	6.4	19 28.9	59
64	5.7	18 28.9	59
65	5.4	18 28.9	59
66	6.7	18 28.9	59
67	6.2	18 28.9	58
68	7.6	18 28.9	58
69	6.6	18 28.9	58
70	5.3	18 28.9	58
71	5.3	18 28.9	58
72	6.1	18 28.9	58
73	7.2	18 28.9	58
74	8.0	18 28.9	58
75	7.0	18 28.9	58
76	6.6	19 28.9	58
77	7.2	19 28.9	58
78	6.8	19 28.9	58
79	7.3	19 28.7	57
80	7.5	19 28.7	57
81	7.9	20 28.9	57
82	7.7	20 28.7	57
83	7.9	20 28.7	57
84	7.5	20 28.7	57
85	7.6	20 28.7	57
86	6.8	20 28.7	57
87	7.6	21 28.7	57
88	6.4	21 28.7	57
89	7.2	21 28.7	57
90	6.5	21 28.7	57
91	8.9	21 28.7	57
92	8.3	21 28.6	57
93	5.6	20 28.6	59
94	2.5	17 28.7	62
95	1.6	15 28.7	64
96	.8	15 28.9	66

1	.7	5 29.2	69
2	.8	5 29.2	69
3	.5	5 29.2	69
4	.1	5 29.2	69
5	.2	4 29.3	70
6	.0	4 29.3	70
7	.3	4 29.3	70
8	.5	3 29.3	70
9	2.6	5 29.2	68
10	4.3	6 29.2	66
11	5.1	7 29.0	55
12	7.3	8 29.0	64
13	7.8	9 29.0	64
14	6.4	10 29.0	64
15	5.8	10 29.0	63
16	6.5	11 29.0	62
17	6.2	11 29.0	62
18	6.1	12 28.9	61
19	8.5	12 29.0	61
20	6.2	12 28.9	61
21	4.5	11 28.9	53
22	2.4	9 29.0	66
23	1.6	8 29.0	63
24	.7	8 29.0	63
25	.7	8 29.0	69
26	.6	8 29.0	69
27	.7	8 29.0	70
28	.5	8 29.0	70
29	.4	8 29.0	70
30	.1	8 29.0	71
31	1.0	9 29.0	70
32	2.8	10 28.9	68
33	3.7	11 28.9	66
34	7.2	12 28.9	66
35	7.2	12 28.7	65
36	7.0	13 28.7	64
37	7.2	14 28.7	64
38	7.2	15 28.7	64
39	7.3	15 28.6	64
40	7.8	16 28.7	63
41	6.7	16 28.7	63
42	8.6	17 28.7	62
43	8.2	17 28.7	62
44	3.5	17 28.7	62
45	7.5	17 28.7	61

129  
Cont.

97			
98	.4	13	28.9 68
99	.6	12	28.9 68
100	.5	13	28.9 69
101	.9	14	28.7 69
102	.6	14	28.7 69
103	.1	15	28.7 69
104	.6	15	28.7 69
105	2.3	17	28.7 67
106	4.3	18	28.7 66
107	5.4	19	28.7 65
108	4.9	19	28.6 64
109	6.7	20	28.6 64
110	7.1	21	28.6 64
111	7.6	21	28.7 63
112	6.7	21	29.7 63
113	6.6	22	28.7 62
114	6.9	22	29.7 62
115	8.4	23	28.7 61
116	7.8	23	28.7 61
117	7.5	23	29.9 61
118	5.0	21	29.9 63
119	1.8	17	29.0 68
120	1.2	16	29.0 69
121	.8	15	29.0 69
	.1	13	29.0 69

Elapsed Time (min.) 7260  
 Total Count 15535  
 Avg. (pCI/l) 5.1  
 =====

< RADON TEST REPORT >

I/D Englewood Classroom 130

START DATE 2/06/18

START TIME 8:51

OPERATOR J.P. [Signature]

SERIAL NO. - CRM5106130  
C/F (CPM/pCi/l) .380  
BKG (pCi/l) .5

Hr	Conc. / pCi/l	L	RH	B/P	deg
		B	%	"Hs	F
1	.5	0	29.6	70	
2	.4	0	29.5	69	
3	.4	0	29.5	69	
4	.5	0	29.5	68	
5	.0	0	29.5	68	
6	.5	0	29.5	63	
7	.9	0	29.5	67	
8	.4	0	29.5	66	
9	.5	0	29.5	66	
10	1.8	0	29.3	65	
11	2.4	0	29.3	64	
12	2.6	0	29.3	64	
13	3.7	0	29.3	63	
14	3.6	0	29.3	63	
15	4.7	1	29.3	63	
16	5.4	1	29.3	62	
17	5.0	1	29.3	62	
18	5.0	1	29.3	62	
19	5.8	1	29.3	61	
20	4.9	2	29.3	61	
21	6.0	2	29.3	61	
22	4.1	0	29.3	64	
23	2.3	0	29.5	67	
24	.9	0	29.5	69	

25	.9	0	29.6	70
26	.5	0	29.5	69
27	.3	0	29.5	68
28	.4	0	29.5	68
29	.3	0	29.5	68
30	.3	0	29.5	67
31	.5	0	29.5	66
32	.0	0	29.5	66
33	.9	0	29.5	66
34	1.2	0	29.3	64
35	1.9	0	29.3	64
36	4.0	0	29.3	64
37	3.7	0	29.3	63
38	4.4	1	29.3	63
39	4.1	1	29.3	63
40	5.5	1	29.3	62
41	6.0	1	29.3	62
42	5.9	2	29.3	62
43	6.2	2	29.3	62
44	5.6	2	29.3	61
45	6.1	2	29.3	61
46	3.6	1	29.3	64
47	1.4	0	29.5	66
48	1.1	0	29.5	68
49	.5	0	29.5	69

Elapsed Time (min.) 2940  
Total Count 3533  
Avg. (pCi/l) 2.6

< RADON TEST REPORT >

I/D \_\_\_\_\_

START DATE 2/20/18

START TIME Kitchen 9:16

OPERATOR David Hollar

SERIAL NO.- CRM5106180  
C/F (CPM/pCi/l) .380  
BKG (pCi/l) .5

=====

Hr	Conc.	/ L RH	B/P deg
pCi/l	B %	"Hg	F

=====

1	.9	/	14 28.9 62
2	.5		19 28.7 58
3	.3		23 28.7 59
4	.7		22 28.7 59
5	.5		17 28.9 60
6	.5		18 28.9 60
7	.2		14 29.0 61
8	.0		12 29.0 61
9	.0		14 29.0 61
10	.2		12 29.2 61
11	.5		13 29.0 60
12	.1		13 29.2 60
13	.0		12 29.2 59
14	.3		12 29.2 59
15	.0		12 29.2 59
16	.1		12 29.2 58
17	.3		12 29.2 58
18	.1		12 29.2 58
19	.0		12 29.3 58
20	.1		11 29.3 58
21	.5		11 29.2 51
22	.2		18 29.0 47
23	.2		15 29.2 53
24	.2		13 29.2 55
25	.4		14 29.2 55
26	.8		17 29.3 57
27	.2		20 29.5 59
28	.5		18 29.3 58
29	.6		15 29.3 59
30	.3		14 29.3 59
31	.8		15 29.3 59

32	.9	15 29.3 59
33	1.6	15 29.3 59
34	1.5	13 29.3 59
35	.9	8 29.5 61
36	.9	11 29.3 60
37	1.2	12 29.3 59
38	1.0	11 29.3 60
39	.7	11 29.3 59
40	1.2	12 29.3 59
41	1.2	12 29.3 58
42	1.2	12 29.3 58
43	1.7	12 29.3 58
44	1.2	12 29.3 58
45	1.5	12 29.3 58
46	1.9	11 29.3 58
47	2.3	11 29.2 57
48	1.6	13 29.2 56
49	1.4	14 29.2 56

Elapsed Time (min.) 2940  
Total Count 1083  
Avg. (pCi/l) .7  
=====

< RADON TEST REPORT >

I/D Jackson School/Room 127

START DATE \* 2/13/18

START TIME 8:29

OPERATOR Marty Schmitt

SERIAL NO.- CRM5106160  
C/F (CPM/pCi/l) .380  
BKG (pCi/l) .5

=====

Hr	Conc.	/	L RH	B/P	des
	pCi/l		B %	"Hg	F

=====

1	1.8	/	8	29.5	69
2	1.1		7	29.5	69
3	1.7		9	29.6	70
4	1.3		8	29.5	70
5	1.2		8	29.5	71
6	1.1		10	29.5	72
7	.8		10	29.3	72
8	1.2		8	29.3	71
9	1.4		8	29.3	70
10	3.0		8	29.3	70
11	3.8		8	29.2	69
12	3.7		8	29.2	69
13	5.6		8	29.2	69
14	6.8		8	29.2	69
15	9.6		8	29.2	69
16	11.2		8	29.2	69
17	12.8		8	29.0	69
18	13.4		8	29.0	69
19	15.0		8	29.0	69
20	15.8		9	29.0	69
21	16.5		9	29.0	69
22	13.5		8	29.0	69
23	11.1		8	29.0	69
24	5.8		8	29.0	69
25	3.2		9	29.0	69

26	2.3	11	29.0	70
27	1.4	11	29.0	70
28	1.3	9	29.0	70
29	.7	11	29.0	70
30	1.0	12	28.9	70
31	1.3	11	28.9	70
32	1.4	11	28.7	69
33	2.0	11	28.7	69
34	2.8	11	28.7	69
35	3.8	11	28.7	69
36	4.4	11	28.7	69
37	6.5	11	28.7	69
38	8.2	12	28.7	69
39	9.3	12	28.7	69
40	8.3	12	28.7	69
41	8.2	12	28.7	69
42	11.0	12	28.7	69
43	11.7	12	28.7	69
44	10.5	12	28.7	69
45	11.9	12	28.7	69
46	11.7	12	28.9	69
47	7.3	12	28.9	69

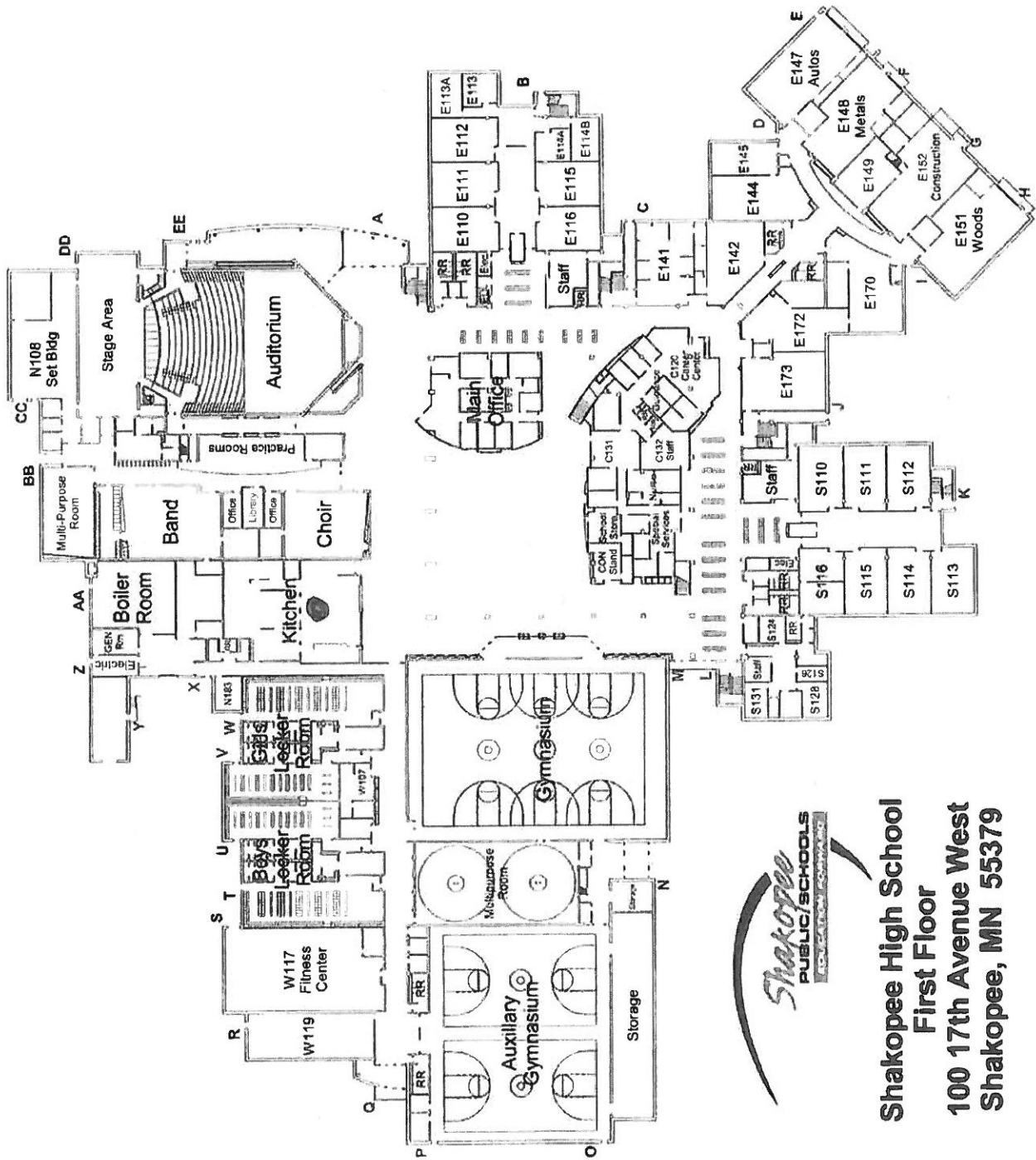
Elapsed Time (min.) 2620  
Total Count 7209  
Avg. (pCi/l) 6.2

=====

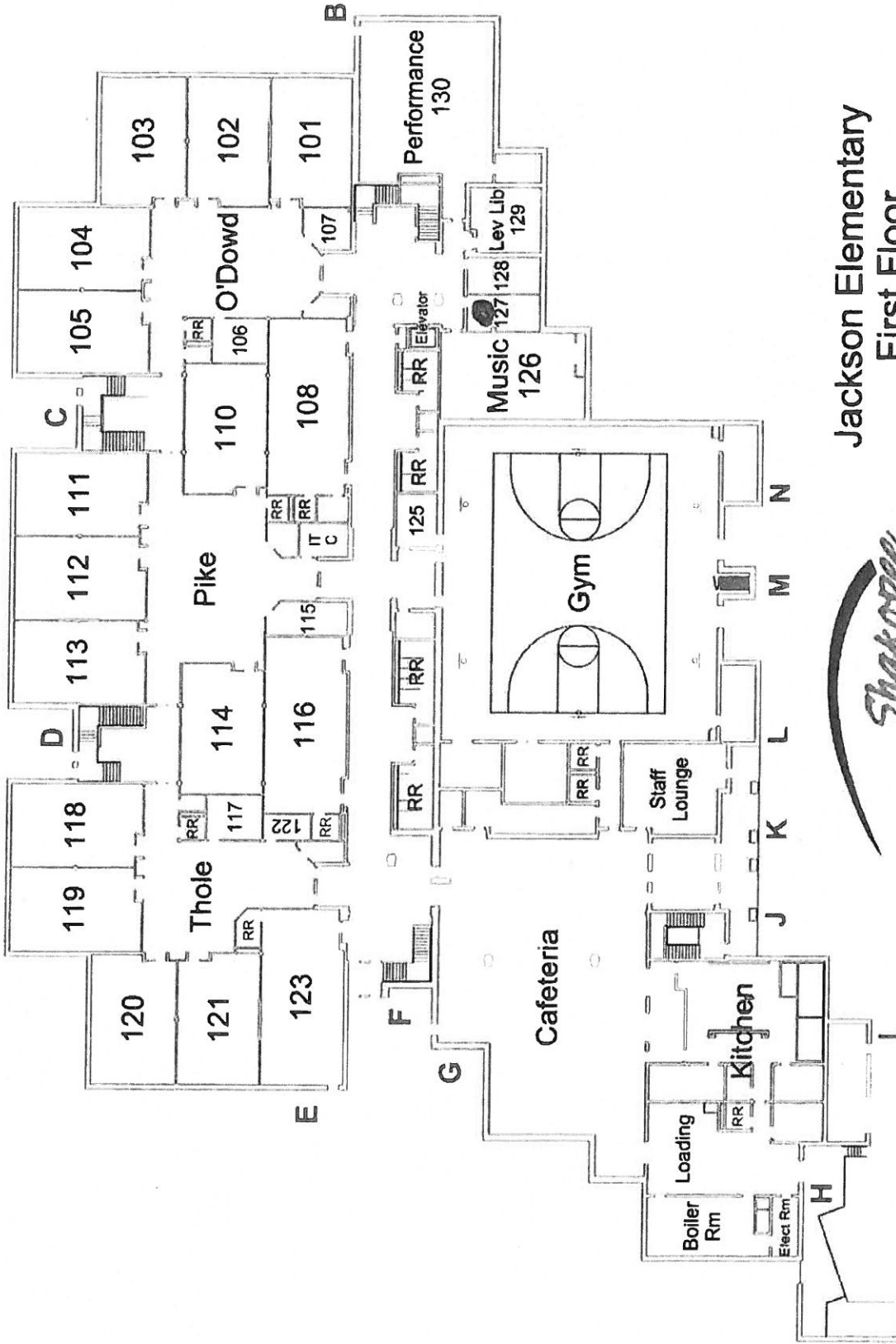


# **Appendix B**

## *Maps*



**Shakopee High School**  
**First Floor**  
**100 17th Avenue West**  
**Shakopee, MN 55379**

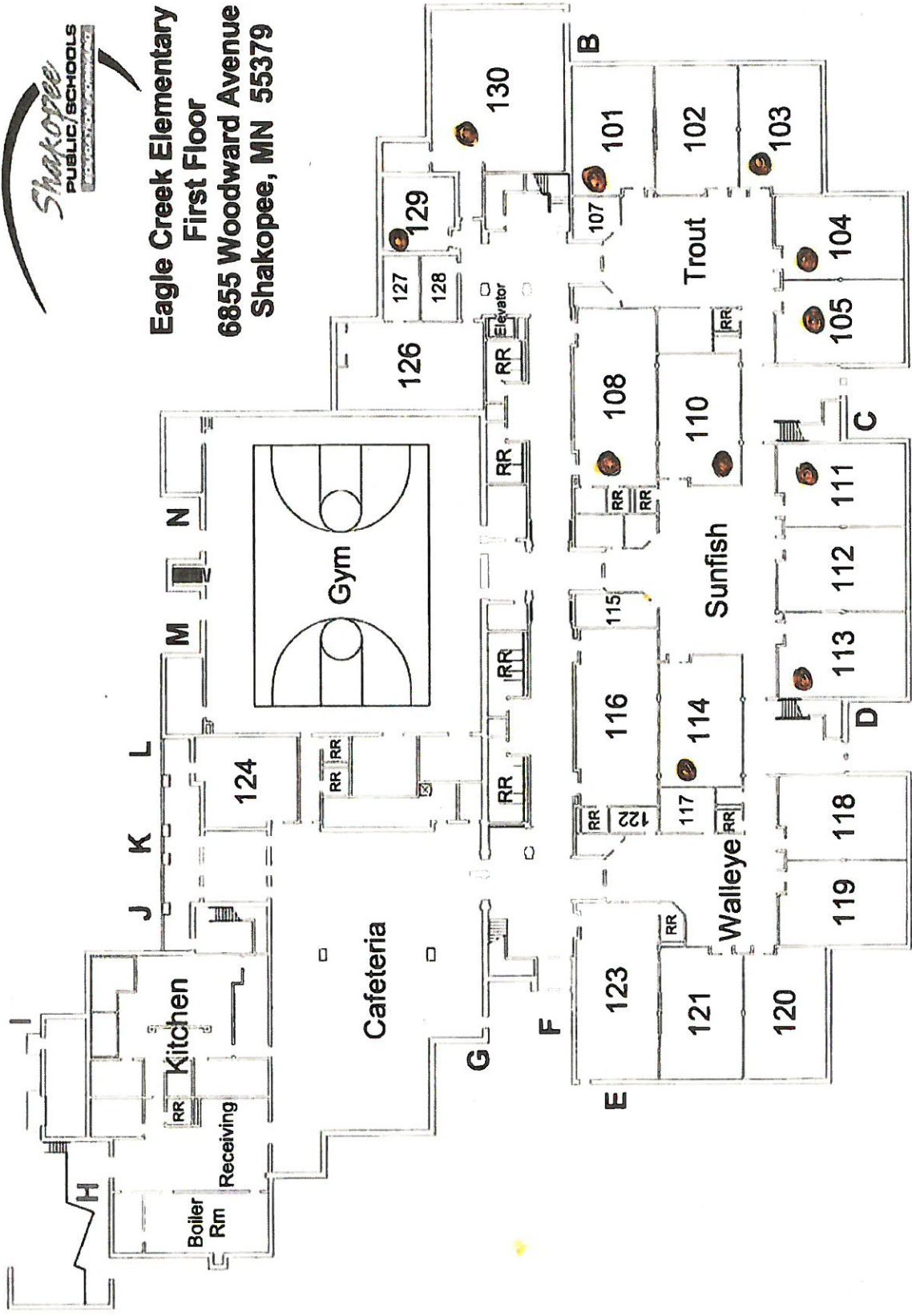


Jackson Elementary  
First Floor  
1601 Lusitano Street  
Shakopee, MN 55379



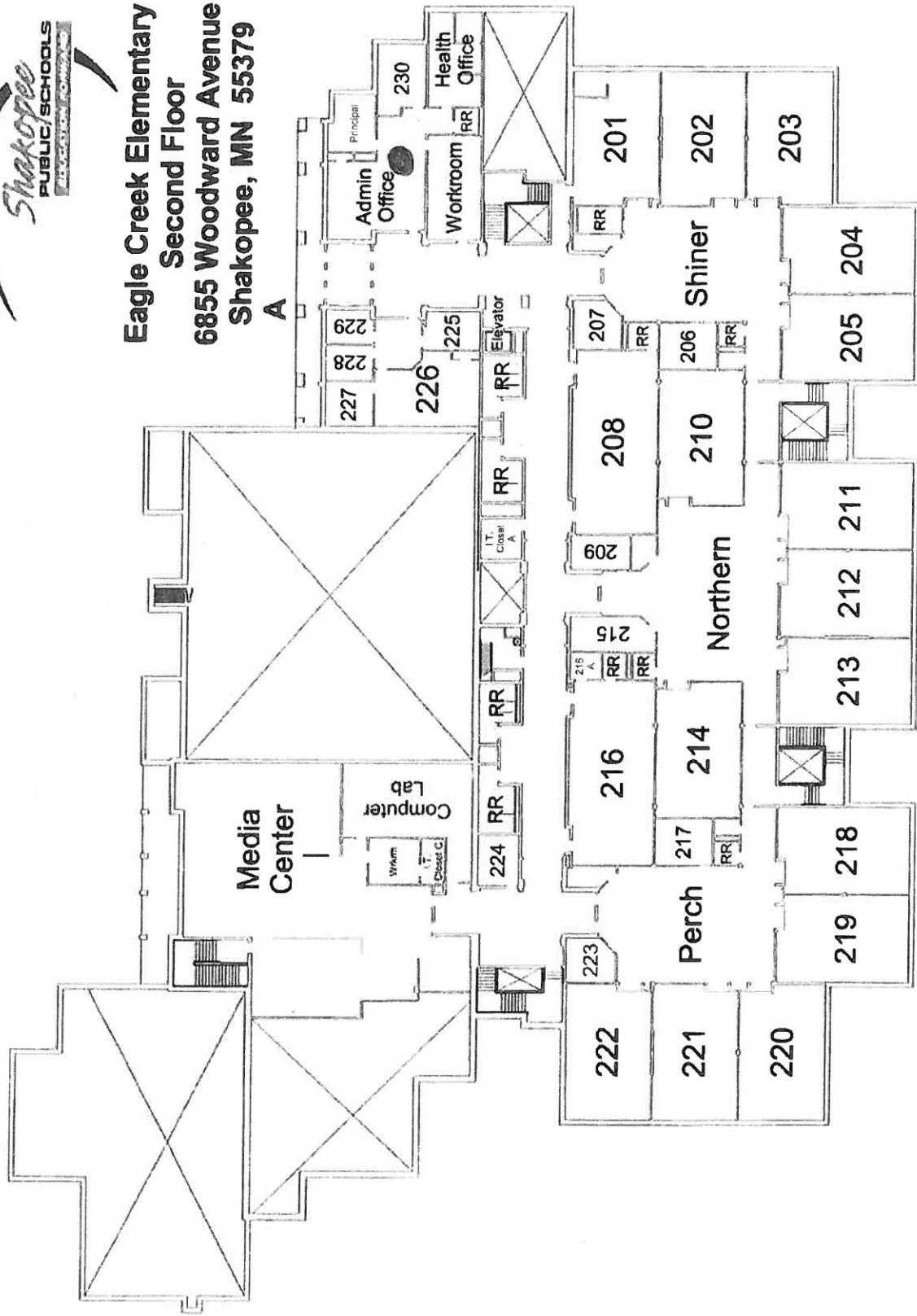


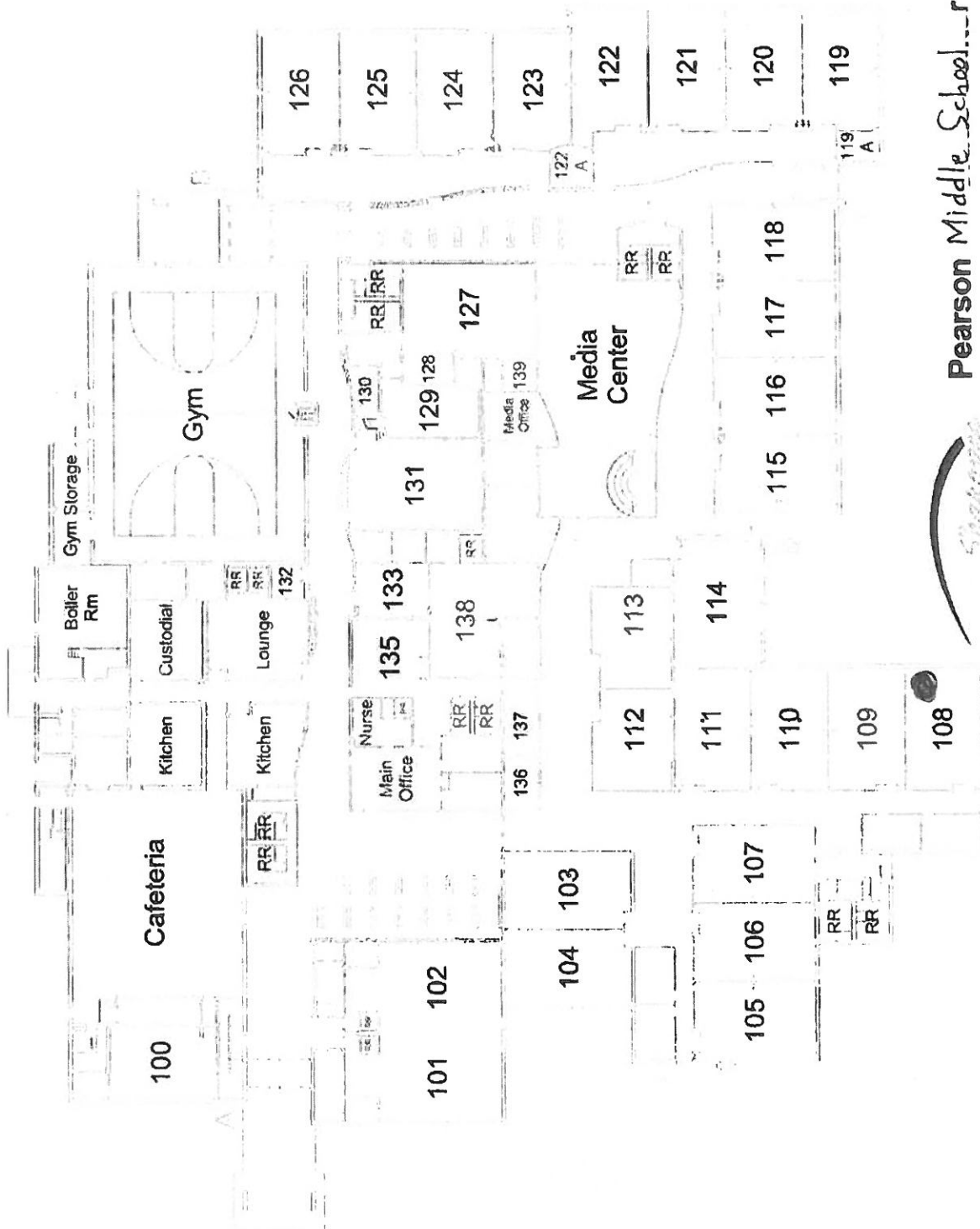
**Eagle Creek Elementary**  
**First Floor**  
**6855 Woodward Avenue**  
**Shakopee, MN 55379**





**Eagle Creek Elementary  
Second Floor  
6855 Woodward Avenue  
Shakopee, MN 55379**





**Pearson Middle School**  
 PUBLIC SCHOOLS 917 South Dakota Street  
 Shakopee, MN 55379