

School Year: **24-25**

| | | | |
|-----------------------|--|--|--|
| Facility: | Colonel Zadok Magruder High School | | |
| Address: | 5939 Muncaster Mill Rd. | | |
| | Derwood, MD 20855 | | |
| Reason for Testing: | Scheduled Re-Testing - <input type="checkbox"/> 2-year or <input checked="" type="checkbox"/> 5-year schedule <input type="checkbox"/> Clearance Testing (Post-Mitigation) <input type="checkbox"/> Building Envelope or HVAC Upgrades <input type="checkbox"/> New Construction – Addition or Facility | | |
| Current Radon Status: | <input type="checkbox"/> Active Mitigation (2-year regular schedule) <input checked="" type="checkbox"/> No Active Mitigation (5-year regular schedule) <input type="checkbox"/> Not Previously Tested (New Facility) | | |
| Round of Testing: | <input checked="" type="checkbox"/> Initial Testing -or- <input type="checkbox"/> Follow-up Testing | | |
| Testing Status: | <input checked="" type="checkbox"/> No Further Testing Needed -or- <input type="checkbox"/> Follow-Up Testing Required | | |

Conclusion (When Testing Status is - No Further Testing Needed)

| Mitigation - | Facility Radon Status: | | |
|--|--|-----------------------|------|
| <input checked="" type="checkbox"/> Not Required <input type="checkbox"/> Required (≥ 4.0 -pCi/L) Rooms: | <input checked="" type="checkbox"/> No Change in Status <input type="checkbox"/> Active Mitigation (2-year regular schedule) <input type="checkbox"/> No Active Mitigation (5-year regular schedule) | | |
| Number of Rooms Tested | 104 | Lowest Value (pCi/L) | <0.3 |
| Number of Rooms (≥ 4.0 -pCi/L) | 0 | Highest Value (pCi/L) | 1.9 |

Instructions: Submit one testing report form per-facility. Include the following as attachments:

Attachment 1- Summary Data Tables – containing the following: (see attached samples tables)

- Testing Results – lab/detector Identification, by room number/name (alpha-numeric order) as depicted on facility map/floor plan provided by the facility/school at the time of test device deployment;
- Summary Results – list of rooms by test result ≥ 2.0 -pCi/L; ≥ 2.7 -pCi/L; ≥ 4.0 -pCi/L; and ≥ 8.0 -pCi/L;
- QA/QC Results - (field blanks and duplicates) indicating location collected; trip and office blanks; and spike sample results;
- Invalid Measurement Locations – missed locations, missing and or damaged/compromised testing devices.

Attachment 2 – Laboratory Report(s)

Attachment 3 – Sampling Location Map(s) – indicating approximate location of samples, duplicates and blanks.

Detector and Deployment

| | | | | |
|--|--|--|----------------------------|--|
| Detector/Device Type: | <input checked="" type="checkbox"/> Passive <input type="checkbox"/> Continuous | <input checked="" type="checkbox"/> Charcoal Absorption (CAD) <input type="checkbox"/> Alpha Track (ATD) <input type="checkbox"/> Other <input type="checkbox"/> Electret ion Chamber (EIC) <input type="checkbox"/> Electronic Integration (EID) | <i>Other—Specify here:</i> | |
| Detector/Device Name: | Air Chek – Radon Test Kits | | | |
| Manufacturer: | Radon Labs | | | |
| Person(s) Deploying or Retrieving Test Devices and certification number | | | Organization/Company | |
| Shakia Dawkins | | | KCI Technologies, Inc. | |
| | | | | |
| | | | | |
| <i>If noncertified individuals, the qualified measurement professional providing oversight -</i> | | | | |
| Tyler McCleaf, CSP Cert. # 111004-RMP | | | KCI Technologies, Inc. | |

Testing

| | | | | |
|--|------------------------|---|--|---|
| <input checked="" type="checkbox"/> Short-Term <input type="checkbox"/> Long-Term | Length of Test (days): | 3 | Date of Deployment and Retrieval (mm/dd/yy): | 3/3/2025 |
| | | | | 3/6/2025 |
| Does the test period include weekends, school breaks or holidays? | | | | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| <i>If “Yes” please explain/detail in the space below:</i> | | | | |
| | | | | |
| Was HVAC operating under occupied conditions? | | | | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| <i>If “No” please explain/detail in the space below:</i> | | | | |
| | | | | |

Testing (continued)

| Round of Testing | Detectors Deployed | | | | Total |
|-----------------------------|--------------------|-----------|----------------|-----------|-------|
| | Ground-Contact | | Upper-Level(s) | | |
| | Initial | Follow-Up | Initial | Follow-Up | |
| Test Locations ¹ | 93 | 0 | 11 | 0 | 104 |
| Duplicates ² | 10 | 0 | 0 | 0 | 10 |
| Field Blanks ³ | 4 | 0 | 0 | 0 | 4 |
| Grand Total | | | | | 118 |

1 – include all detectors deployed (duplicates, field blanks); 1 detector per occupied (or intended to be occupied) ground-contact space ≤ 2,000-square feet; large spaces ≥ 2,000-square feet - 1 detector per 2,000-square feet or part thereof); and upper floors - 10% of all occupied or intended to be occupied rooms per floor (these are in addition to ground contact locations)

2 - 10% of all locations tested, per floor

3 – 5% of all locations tested, per floor

Quality Assurance / Quality Control (QA/QC)

A Quality Assurance plan that is consistent with ANSI/AARST MS-QA (Radon Measurement Systems Quality Assurance) was submitted under separate cover, and is available to review at the MCPS Radon Testing and Mitigation Program website. The following number of QA/QC samples are associated this facility.

| Round of Testing | QA/QC Samples | | Total |
|-------------------------------|----------------|-----------|-------|
| | Initial | Follow-Up | |
| Spikes ¹ | Not applicable | | 10 |
| Trip Blanks ² | 1 | 0 | 1 |
| Office Blanks ^{3, 4} | 1 | 0 | 1 |
| | | | 12 |

1 - 3% of EIC detectors; and 3% from each LOT of CAD and ATD detectors; a maximum of 6-spiked measurements per month for both EIC detectors and each LOT of CAD and ATD detectors.

2 – One per shipping container from start of detector deployment

3 – One per facility tested as devices are removed/allocated from the storage location for deployment;

4 - One additional blank, analyzed prior to deployment, for storage locations that have not been evaluated or monitored, for detectors that have been stored for more than 30-day durations.

Quality Assurance / Quality Control (continued)

| | |
|---|--|
| Spike Sample Lab Results. Measured values are satisfactory, i.e., within $\pm 25\%$ of the chamber's reference value? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| Quality Control measurements comply with QA/QC requirements in the submitted testing organization's/company's QA plan? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| | Round of Testing |
| | Initial |
| | Follow-Up |
| All Field, Trip and Office Blanks are \leq (less than or equal to) to the Method Detection Limit? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes |
| For all Duplicate Samples ¹ , the higher value is $\leq 2x$ the lower value? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes |
| For all Duplicate Samples ¹ , Relative Percent Difference(s) (RPD) ² are less than the Warning Level ³ ? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes |
| For all Duplicate Samples ¹ , Relative Percent Difference(s) (RPD) ² are less than the Control Level ³ ? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes |

1 – Duplicate Control – a “NO” response constitute a control failure and the space/location represented by the duplicate sample becomes an invalid measurement location and should be listed in the “Invalid Measurement Locations” Table attached to this report.

2 - The objective of duplicate tests is to assess the precision error of the measurement method or, how well two side-by-side measurements agree or disagree. Precision involving duplicates is calculated by using Relative Percent Difference (RPD). RPD is equal to the difference between the higher test result minus the lower value test result divided by the average of the two duplicate test results, multiplied by 100. The RPD result is then compared to the warning and control limits.

3 - The Warning Level is set at the deviation from ideal performance that would be expected to occur by chance only 5% of the time, and Control Limits are set at that deviation from ideal performance that would be expected to occur by chance only 1% of the time. The Warning Level indicates a potential problem, which should be investigated. The Control Level indicates that the measurement system should be subject to corrective action.

The control and warning levels for duplicates, based on the averaged duplicate test result, are -

| Average concentration of the two duplicate test results | Warning Level | Control Level |
|---|---------------|----------------|
| < 2.0-pCi/L | 1-pCi/L | Not applicable |
| Between 2.0 and 3.9-pCi/L | 50% RPD | 67% RPD |
| ≥ 4.0 -pCi/L | 28% RPD | 36% RPD |

Summary of Test Results¹ and Determination of Valid Measurements²

| Round of Testing | Ground-Contact | | Upper-Level(s) | | Total |
|--|----------------|-----------|----------------|-----------|-------|
| | Initial | Follow-Up | Initial | Follow-Up | |
| Number of test locations: | 93 | 0 | 11 | 0 | 104 |
| Number of locations ≥ 8.0 -pCi/L: | 0 | 0 | 0 | 0 | 0 |
| Number of locations ≥ 4.0 and ≤ 8 -pCi/L: | 0 | 0 | 0 | 0 | 0 |
| Number of locations ≥ 2.7 and < 4 -pCi/L: | 0 | 0 | 0 | 0 | 0 |
| Number of locations ≥ 2.0 and < 2.7 -pCi/L: | 0 | 0 | 0 | 0 | 0 |
| Number of missing required test locations ³ : | 10 | 0 | 0 | 0 | 10 |
| Number of failed duplicate control locations: | 0 | 0 | 0 | 0 | 0 |
| Percentage of missing test locations for the facility ^{4,5} : | 10.7% | 0 | 0 | 0 | 10.7% |

1 – for locations with multiple test results, report consistent with Section 7.2(When Two Test Results Disagree) and 8.1.2 (Averaging) of ANSI/AARST MA-MFLB 2023 – Conducting Measurements of Radon in Multifamily, School, Commercial and Mix-Use Buildings;

2 - the allowance is to be calculated individually for Ground-Contact and Upper-Level(s) Test Locations;

3 – includes missed or inaccessible locations upon deployment or retrieval, damaged (not able to analyze) and missing detectors upon retrieval;

4 – if all valid measurements are < 4.0 -pCi/L and the total number of test locations are ≥ 18 , there is an allowance of $\leq 33\%$. If less than 18 test locations please review section 6.2 of the ANSI/AARST MA-MFLB 2023;

5 – if any valid measurements are ≥ 4.0 -pCi/L and the total number of test locations are ≥ 20 , there is an allowance of $\leq 25\%$ of the total locations tested. If less than 20 test locations please review section 6.2 of the ANSI/AARST MA-MFLB 2023.

Summary of Test Results¹ and Determination of Valid Measurements² (continued)

| | Round of Testing | Initial | Follow-Up |
|---|------------------|---|---|
| Were test devices deployed in all occupied and intended to be occupied rooms in contact with the ground, and, if applicable, 10% of upper floor rooms? | | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Were valid measurements obtained in all occupied and intended to be occupied rooms in contact with the ground, and, if applicable, 10% of upper floor rooms? | | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| <i>If Yes to both above – then Testing Status – ‘No Further Testing Needed’ mark ‘NA’ below and complete Conclusions section</i> | | | |
| If No to either above, were all results obtained under 4.0-pCi/L and were sufficient valid measurements obtained?^{1,2} <i>If Yes, then - ‘No Further Testing Needed’ complete Conclusion section on first page. If No, then - ‘Follow-up Testing Required’ continue below.</i> | | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA |

1 – if all valid measurements are <4.0-pCi/L and the total number of test locations are ≥18, there is an allowance of ≤33%. If less than 18 test locations please review section 6.2 of the ANSI/AARST MA-MFLB 2023 – Conducting Measurements of Radon in Multifamily, School, Commercial and Mix-Use Buildings to determine the allowance;
 2 – if any valid measurements are ≥4.0-pCi/L and the total number of test locations are ≥20, there is an allowance of ≤25% of the total locations tested. If less than 20 test locations please review section 6.2 of the ANSI/AARST MA-MFLB 2023 – Conducting Measurements of Radon in Multifamily, School, Commercial and Mix-Use Buildings to determine the number the allowance.

Follow-Up Testing

Required –

- If an insufficient number (greater than the allowance provided above) of valid measurements were obtained during the initial round of testing (the “missing required test locations” in the table above);
- Any location test results ≥ 4.0-pCi/L;
- Any location where duplicates fail QC checks; and or
- At the discretion of MCPS IAQ Staff

| Reason for Follow-Up Testing | Testing Procedure | Follow-up Result | Conclusion |
|-------------------------------------|--|------------------|-----------------------------------|
| Insufficient Number of Measurements | Follow same procedures as Initial Testing | Not Applicable | Follow Initial Testing procedures |
| Results ≥ 4.0-pCi/L | Deploy two Short-term follow-up tests and required blanks and duplicates; Average the results of the two tests | ≥4.0 | Mitigation Required |
| Failed QC checks | | ≥2.0 and <4.0 | Consider Mitigation |
| | | <2.0 | Mitigation Not Required |

➤ *If follow-up testing identifies additional spaces requiring additional testing it will be performed as part of the ongoing follow-testing round.*

Attachment 1:
Summary Data Tables

| Table 1- Radon Testing Results | | |
|---|---------------------|-------------|
| Col. Zadok Magruder High School | | |
| Test Period: 3/3/2025 - 3/6/2025 | | |
| Kit Number | Room / Area | Result |
| 11887037 | A100 | < 0.3 |
| 11887052 | A100 | < 0.3 |
| 11887001 | A100 OFFICE | < 0.3 |
| 11887047 | A102 | < 0.3 |
| 11887055 | A102 OFFICE | < 0.3 |
| 11887053 | A103 | 0.8 |
| 11887054 | A104 | < 0.3 |
| 11887031 | A104 OFFICE | < 0.3 |
| 11887006 | A105 | < 0.3 |
| 11887003 | A106 | < 0.3 |
| 11887014 | A107 | < 0.3 |
| 11887016 | A107 | < 0.3 |
| 11887007 | A108 | < 0.3 |
| 11887004 | A108 OFFICE | < 0.3 |
| 11887005 | A108 OFFICE | < 0.3 |
| 11887025 | A109 | < 0.3 |
| 11887033 | A205 | < 0.3 |
| 11887041 | A210 | < 0.3 |
| 11887027 | A215 | < 0.3 |
| 11887119 | ADMIN SECRETARY | < 0.3 |
| 11887117 | AP 1 | < 0.3 |
| 11887111 | AP 2 | < 0.3 |
| 11887110 | AP 3 | < 0.3 |
| 11887106 | AP 4 | < 0.3 |
| 11887092 | ATHLETIC SPECIALIST | Missing Kit |
| 11887095 | ATTENDANCE | < 0.3 |
| 11887051 | AUDITORIUM | 1.9 |
| 11887081 | AUDITORIUM | 0.6 |
| 11887009 | AUX GYM | 1.6 |
| 11887068 | B110 | < 0.3 |
| 11887075 | B110 | < 0.3 |
| 11887059 | B111 | 1.1 |
| 11887088 | B113 | < 0.3 |
| 11887050 | B114 | < 0.3 |
| 11887048 | B115 | < 0.3 |
| 11887042 | B220 | < 0.3 |
| 11887028 | B229 | < 0.3 |
| 11887012 | B230 | < 0.3 |

| Table 1- Radon Testing Results | | |
|---|-------------------------|-------------|
| Col. Zadok Magruder High School | | |
| Test Period: 3/3/2025 - 3/6/2025 | | |
| | | |
| 11887026 | B233 | 0.7 |
| 11887020 | B234 | < 0.3 |
| 11887018 | BOYS LOCKER ROOM | 0.7 |
| 11887036 | BOYS LOCKER ROOM OFFICE | < 0.3 |
| 11887011 | BS OFFICE | < 0.3 |
| 11887065 | C116 | < 0.3 |
| 11887066 | C116 | < 0.3 |
| 11887035 | C117 | < 0.3 |
| 11887083 | C117 | < 0.3 |
| 11887067 | C118 | < 0.3 |
| 11887063 | C118 OFFICE | < 0.3 |
| 11887024 | C119 | < 0.3 |
| 11887010 | C119A | < 0.3 |
| 11887021 | C120 | < 0.3 |
| 11887002 | C120 OFFICE | < 0.3 |
| 11887079 | C120 OFFICE | < 0.3 |
| 11887022 | C121 | < 0.3 |
| 11887064 | C122 | < 0.3 |
| 11887030 | C123 | < 0.3 |
| 11887069 | C124 | < 0.3 |
| 11887070 | C125 | < 0.3 |
| 11887078 | C126 | Missing Kit |
| 11887008 | C249 | < 0.3 |
| 11887015 | C251 | < 0.3 |
| 11887019 | C251 | < 0.3 |
| 11887043 | CAFETERIA | < 0.3 |
| 11887061 | CAFETERIA | < 0.3 |
| 11887090 | CAREER CENTER | < 0.3 |
| 11887100 | CAREER CENTER | < 0.3 |
| 11887097 | CONFERENCE | < 0.3 |
| 11887101 | CONFERENCE | 0.9 |
| 11887113 | CONFERENCE | < 0.3 |
| 11887115 | COUNSELING | < 0.3 |
| 11887089 | COUNSELING 1 | 0.8 |
| 11887121 | COUNSELING 2 | < 0.3 |
| 11887091 | COUNSELING 3 | < 0.3 |
| 11887109 | COUNSELING 4 | < 0.3 |
| 11887105 | COUNSELING 5 | < 0.3 |

| Table 1- Radon Testing Results | | |
|---|----------------------|-------|
| Col. Zadok Magruder High School | | |
| Test Period: 3/3/2025 - 3/6/2025 | | |
| | | |
| 11887114 | COUNSELING 5 | < 0.3 |
| 11887103 | COUNSELING 6 | < 0.3 |
| 11887104 | COUNSELING 6 | < 0.3 |
| 11887099 | COUNSELING 7 | < 0.3 |
| 11887120 | COUNSELING 8 | < 0.3 |
| 11887102 | COUNSELING 9 | < 0.3 |
| 11887107 | COUNSELING REGISTRAR | < 0.3 |
| 11887118 | COUNSELING WORKROOM | < 0.3 |
| 11887023 | D127 | < 0.3 |
| 11887039 | D128 | < 0.3 |
| 11887058 | D128 | < 0.3 |
| 11887084 | D129 | < 0.3 |
| 11887032 | D130 | < 0.3 |
| 11887034 | D131 | < 0.3 |
| 11887072 | D132 | < 0.3 |
| 11887040 | D133 | < 0.3 |
| 11887017 | D134 | < 0.3 |
| 11887060 | D135 | < 0.3 |
| 11887071 | D136 | < 0.3 |
| 11887077 | D136 | < 0.3 |
| 11887029 | D137 | < 0.3 |
| 11887073 | DRESSING ROOM | 1.3 |
| 11887049 | GYM | < 0.3 |
| 11887082 | GYM | < 0.3 |
| 11887085 | GYM 2 | < 0.3 |
| 11887086 | GYM 2 | < 0.3 |
| 11887038 | HEALTH | < 0.3 |
| 11887087 | HEALTH | < 0.3 |
| 11887045 | HEALTH OFFICE | < 0.3 |
| 11887062 | KITCHEN OFFICE | < 0.3 |
| 11887116 | MAILROOM | < 0.3 |
| 11887122 | MAIN OFFICE | < 0.3 |
| 11887056 | MAKEUP ROOM | 0.8 |
| 11887013 | MUSIC OFFICE | 1.2 |
| 11887046 | PE OFFICE | < 0.3 |
| 11887125 | PRINCIPAL | < 0.3 |
| 11887080 | SECURITY | < 0.3 |
| 11887076 | SECURITY 2 | < 0.3 |
| 11887044 | STAFF LOUNGE | < 0.3 |

| Table 1- Radon Testing Results | | |
|---|----------|-------|
| Col. Zadok Magruder High School | | |
| Test Period: 3/3/2025 - 3/6/2025 | | |
| | | |
| 11887057 | STAGE | < 0.3 |
| 11887093 | WORKROOM | < 0.3 |
| 11887112 | WORKROOM | < 0.3 |

| Table 3 - QC Radon Testing Results | | | |
|---|----------------|--------------------|---------------|
| Col. Zadok Magruder High School | | | |
| Test Period: 3/3/2025 - 3/6/2025 | | | |
| Kit Number | QC Type | Room / Area | Result |
| 11887052 | D | A100 | < 0.3 |
| 11887016 | FB | A107 | < 0.3 |
| 11887004 | D | A108 Office | < 0.3 |
| 11887068 | D | B110 | < 0.3 |
| 11887066 | D | C116 | < 0.3 |
| 11887079 | D | C120 Office | < 0.3 |
| 11887015 | D | C251 | < 0.3 |
| 11887043 | D | Cafeteria | < 0.3 |
| 11887090 | D | Career Center | < 0.3 |
| 11887114 | D | Counseling 5 | < 0.3 |
| 11887104 | FB | Counseling 6 | < 0.3 |
| 11887058 | D | D128 | < 0.3 |
| 11887077 | FB | D136 | < 0.3 |
| 11887038 | FB | Health | < 0.3 |
| 11886966 | OB | OFFICE BLANK | < 0.3 |
| 11886999 | TB | TRAVEL BLANK | < 0.3 |

Table 3a - Duplicate Worksheet / Data Validation

Zadok Col. Magruder High School

Test Period: 3/3/2025 - 3/6/2025

| Sample ID | | Duplicate Concentrations (pCi/L) and OC Checks | | | | | | | | |
|-------------|-------------|--|-------|-------------------------|-----------------|-------------------------|---------|--------------------------------------|----------|---|
| Kit Numbers | Room / Area | Higher | Lower | Check #1 (Pass/Fail) | 2x the Lower | Check #2 (Pass/Fail) | Average | Relative Percent Difference (RPD) | Check #3 | |
| 11887052 | 11887037 | A100 | 0.3 | 0.3 | ✓ | 0.6 | PASS | 0.3 | <1-pCi/L | ✓ |
| 11887004 | 11887005 | A108 Office | 0.3 | 0.3 | ✓ | 0.6 | PASS | 0.3 | <1-pCi/L | ✓ |
| 11887068 | 11887075 | B110 | 0.3 | 0.3 | ✓ | 0.6 | PASS | 0.3 | <1-pCi/L | ✓ |
| 11887066 | 11887065 | C116 | 0.3 | 0.3 | ✓ | 0.6 | PASS | 0.3 | <1-pCi/L | ✓ |
| 11887079 | 11887002 | C120 Office | 0.3 | 0.3 | ✓ | 0.6 | PASS | 0.3 | <1-pCi/L | ✓ |
| 11887015 | 11887019 | C251 | 0.3 | 0.3 | ✓ | 0.6 | PASS | 0.3 | <1-pCi/L | ✓ |
| 11887043 | 11887061 | Cafeteria | 0.3 | 0.3 | ✓ | 0.6 | PASS | 0.3 | <1-pCi/L | ✓ |
| 11887090 | 11887100 | Career Center | 0.3 | 0.3 | ✓ | 0.6 | PASS | 0.3 | <1-pCi/L | ✓ |
| 11887114 | 11887105 | Counseling 5 | 0.3 | 0.3 | ✓ | 0.6 | PASS | 0.3 | <1-pCi/L | ✓ |
| 11887058 | 11887039 | D128 | 0.3 | 0.3 | ✓ | 0.6 | PASS | 0.3 | <1-pCi/L | ✓ |

NOTES:

QC Check #1 - Data Entry

QC Check #2 - Higher duplicate concentration is < or = to 2x the Lower

QC Check #3 - Meets RPD Limits, by average duplicate concentration

- enter 2 if RPD is BELOW warning and control levels, AND passes QC Check 1 and 2
- enter 1 if RPD is ABOVE warning and BELOW control levels, AND passes QC Check 1 and 2
- enter 0 if RPD is ABOVE control level, or 'FAILS' QC Check 1 or 2

| Average (pCi/L) | Warning Level | Control Level |
|---------------------|---------------|---------------|
| < 2.0 | 1-pCi/L | NA |
| Between 2.0 and 3.9 | 50% RPD | 67% RPD |
| ≥ 4.0 | 28% RPD | 36% RPD |

Attachment 2:
Laboratory Reports

Radon test result report for:

| Kit # | Room Id | Started | Ended | pCi/L | Analyzed |
|----------|-----------------|-----------------------|----------------------|-----------|------------|
| 11887052 | A100 | 2025-03-03 @ 8:00 am | 2025-03-06 @ 9:00 am | < 0.3 | 2025-03-10 |
| 11887037 | A100 | 2025-03-03 @ 8:00 am | 2025-03-06 @ 9:00 am | < 0.3 | 2025-03-10 |
| 11887001 | A100 OFFICE | 2025-03-03 @ 8:00 am | 2025-03-06 @ 9:00 am | < 0.3 | 2025-03-10 |
| 11887047 | A102 | 2025-03-03 @ 8:00 am | 2025-03-06 @ 9:00 am | < 0.3 | 2025-03-10 |
| 11887055 | A102 OFFICE | 2025-03-03 @ 8:00 am | 2025-03-06 @ 9:00 am | < 0.3 | 2025-03-10 |
| 11887053 | A103 | 2025-03-03 @ 8:00 am | 2025-03-06 @ 9:00 am | 0.8 ± 0.3 | 2025-03-10 |
| 11887054 | A104 | 2025-03-03 @ 8:00 am | 2025-03-06 @ 9:00 am | < 0.3 | 2025-03-10 |
| 11887031 | A104 OFFICE | 2025-03-03 @ 8:00 am | 2025-03-06 @ 9:00 am | < 0.3 | 2025-03-10 |
| 11887006 | A105 | 2025-03-03 @ 8:00 am | 2025-03-06 @ 9:00 am | < 0.3 | 2025-03-10 |
| 11887003 | A106 | 2025-03-03 @ 8:00 am | 2025-03-06 @ 9:00 am | < 0.3 | 2025-03-10 |
| 11887014 | A107 | 2025-03-03 @ 8:00 am | 2025-03-06 @ 9:00 am | < 0.3 | 2025-03-10 |
| 11887016 | A107 | 2025-03-03 @ 8:00 am | 2025-03-06 @ 9:00 am | < 0.3 | 2025-03-10 |
| 11887007 | A108 | 2025-03-03 @ 8:00 am | 2025-03-06 @ 9:00 am | < 0.3 | 2025-03-10 |
| 11887004 | A108 OFFICE | 2025-03-03 @ 8:00 am | 2025-03-06 @ 9:00 am | < 0.3 | 2025-03-10 |
| 11887005 | A108 OFFICE | 2025-03-03 @ 8:00 am | 2025-03-06 @ 9:00 am | < 0.3 | 2025-03-10 |
| 11887025 | A109 | 2025-03-03 @ 7:00 am | 2025-03-06 @ 9:00 am | < 0.3 | 2025-03-10 |
| 11887033 | A205 | 2025-03-03 @ 7:00 am | 2025-03-06 @ 9:00 am | < 0.3 | 2025-03-10 |
| 11887041 | A210 | 2025-03-03 @ 7:00 am | 2025-03-06 @ 9:00 am | < 0.3 | 2025-03-10 |
| 11887027 | A215 | 2025-03-03 @ 7:00 am | 2025-03-06 @ 9:00 am | < 0.3 | 2025-03-10 |
| 11887119 | ADMIN SECRETARY | 2025-03-03 @ 10:00 am | 2025-03-06 @ 9:00 am | < 0.3 | 2025-03-10 |
| 11887117 | AP 1 | 2025-03-03 @ 10:00 am | 2025-03-06 @ 9:00 am | < 0.3 | 2025-03-10 |
| 11887111 | AP 2 | 2025-03-03 @ 10:00 am | 2025-03-06 @ 9:00 am | < 0.3 | 2025-03-10 |
| 11887110 | AP 3 | 2025-03-03 @ 10:00 am | 2025-03-06 @ 9:00 am | < 0.3 | 2025-03-10 |
| 11887106 | AP 4 | 2025-03-03 @ 11:00 am | 2025-03-06 @ 9:00 am | < 0.3 | 2025-03-10 |
| 11887095 | ATTENDANCE | 2025-03-03 @ 11:00 am | 2025-03-06 @ 9:00 am | < 0.3 | 2025-03-10 |
| 11887051 | AUDITORIUM | 2025-03-03 @ 8:00 am | 2025-03-06 @ 9:00 am | 1.9 ± 0.4 | 2025-03-10 |
| 11887081 | AUDITORIUM | 2025-03-03 @ 8:00 am | 2025-03-06 @ 9:00 am | 0.6 ± 0.3 | 2025-03-10 |
| 11887009 | AUX GYM | 2025-03-03 @ 8:00 am | 2025-03-06 @ 9:00 am | 1.6 ± 0.4 | 2025-03-10 |
| 11887068 | B110 | 2025-03-03 @ 8:00 am | 2025-03-06 @ 9:00 am | < 0.3 | 2025-03-10 |
| 11887075 | B110 | 2025-03-03 @ 8:00 am | 2025-03-06 @ 9:00 am | < 0.3 | 2025-03-10 |
| 11887059 | B111 | 2025-03-03 @ 9:00 am | 2025-03-06 @ 9:00 am | 1.1 ± 0.4 | 2025-03-10 |
| 11887088 | B113 | 2025-03-03 @ 9:00 am | 2025-03-06 @ 9:00 am | < 0.3 | 2025-03-10 |
| 11887050 | B114 | 2025-03-03 @ 9:00 am | 2025-03-06 @ 9:00 am | < 0.3 | 2025-03-10 |
| 11887048 | B115 | 2025-03-03 @ 9:00 am | 2025-03-06 @ 9:00 am | < 0.3 | 2025-03-10 |
| 11887042 | B220 | 2025-03-03 @ 7:00 am | 2025-03-06 @ 9:00 am | < 0.3 | 2025-03-10 |
| 11887028 | B229 | 2025-03-03 @ 7:00 am | 2025-03-06 @ 9:00 am | < 0.3 | 2025-03-10 |
| 11887012 | B230 | 2025-03-03 @ 7:00 am | 2025-03-06 @ 9:00 am | < 0.3 | 2025-03-10 |

Radon test result report for:

| Kit # | Room Id | Started | Ended | pCi/L | Analyzed |
|----------|-------------------------|-----------------------|----------------------|-----------|------------|
| 11887026 | B233 | 2025-03-03 @ 7:00 am | 2025-03-06 @ 9:00 am | 0.7 ± 0.3 | 2025-03-10 |
| 11887020 | B234 | 2025-03-03 @ 7:00 am | 2025-03-06 @ 9:00 am | < 0.3 | 2025-03-10 |
| 11887018 | BOYS LOCKER ROOM | 2025-03-03 @ 7:00 am | 2025-03-06 @ 9:00 am | 0.7 ± 0.3 | 2025-03-10 |
| 11887036 | BOYS LOCKER ROOM OFFICE | 2025-03-03 @ 7:00 am | 2025-03-06 @ 9:00 am | < 0.3 | 2025-03-10 |
| 11887011 | BS OFFICE | 2025-03-03 @ 7:00 am | 2025-03-06 @ 9:00 am | < 0.3 | 2025-03-10 |
| 11887065 | C116 | 2025-03-03 @ 9:00 am | 2025-03-06 @ 9:00 am | < 0.3 | 2025-03-10 |
| 11887066 | C116 | 2025-03-03 @ 9:00 am | 2025-03-06 @ 9:00 am | < 0.3 | 2025-03-10 |
| 11887035 | C117 | 2025-03-03 @ 9:00 am | 2025-03-06 @ 9:00 am | < 0.3 | 2025-03-10 |
| 11887083 | C117 | 2025-03-03 @ 9:00 am | 2025-03-06 @ 9:00 am | < 0.3 | 2025-03-10 |
| 11887067 | C118 | 2025-03-03 @ 9:00 am | 2025-03-06 @ 9:00 am | < 0.3 | 2025-03-10 |
| 11887063 | C118 OFFICE | 2025-03-03 @ 9:00 am | 2025-03-06 @ 9:00 am | < 0.3 | 2025-03-10 |
| 11887024 | C119 | 2025-03-03 @ 9:00 am | 2025-03-06 @ 9:00 am | < 0.3 | 2025-03-10 |
| 11887010 | C119A | 2025-03-03 @ 9:00 am | 2025-03-06 @ 9:00 am | < 0.3 | 2025-03-10 |
| 11887021 | C120 | 2025-03-03 @ 9:00 am | 2025-03-06 @ 9:00 am | < 0.3 | 2025-03-10 |
| 11887079 | C120 OFFICE | 2025-03-03 @ 9:00 am | 2025-03-06 @ 9:00 am | < 0.3 | 2025-03-10 |
| 11887002 | C120 OFFICE | 2025-03-03 @ 9:00 am | 2025-03-06 @ 9:00 am | < 0.3 | 2025-03-10 |
| 11887022 | C121 | 2025-03-03 @ 9:00 am | 2025-03-06 @ 9:00 am | < 0.3 | 2025-03-10 |
| 11887064 | C122 | 2025-03-03 @ 9:00 am | 2025-03-06 @ 9:00 am | < 0.3 | 2025-03-10 |
| 11887030 | C123 | 2025-03-03 @ 9:00 am | 2025-03-06 @ 9:00 am | < 0.3 | 2025-03-10 |
| 11887069 | C124 | 2025-03-03 @ 9:00 am | 2025-03-06 @ 9:00 am | < 0.3 | 2025-03-10 |
| 11887070 | C125 | 2025-03-03 @ 9:00 am | 2025-03-06 @ 9:00 am | < 0.3 | 2025-03-10 |
| 11887008 | C249 | 2025-03-03 @ 7:00 am | 2025-03-06 @ 9:00 am | < 0.3 | 2025-03-10 |
| 11887019 | C251 | 2025-03-03 @ 7:00 am | 2025-03-06 @ 9:00 am | < 0.3 | 2025-03-10 |
| 11887015 | C251 | 2025-03-03 @ 7:00 am | 2025-03-06 @ 9:00 am | < 0.3 | 2025-03-10 |
| 11887061 | CAFETERIA | 2025-03-03 @ 9:00 am | 2025-03-06 @ 9:00 am | < 0.3 | 2025-03-10 |
| 11887043 | CAFETERIA | 2025-03-03 @ 9:00 am | 2025-03-06 @ 9:00 am | < 0.3 | 2025-03-10 |
| 11887100 | CAREER CENTER | 2025-03-03 @ 10:00 am | 2025-03-06 @ 9:00 am | < 0.3 | 2025-03-10 |
| 11887090 | CAREER CENTER | 2025-03-03 @ 10:00 am | 2025-03-06 @ 9:00 am | < 0.3 | 2025-03-10 |
| 11887097 | CONFERENCE | 2025-03-03 @ 10:00 am | 2025-03-06 @ 9:00 am | < 0.3 | 2025-03-10 |
| 11887113 | CONFERENCE | 2025-03-03 @ 11:00 am | 2025-03-06 @ 9:00 am | < 0.3 | 2025-03-10 |
| 11887101 | CONFERENCE | 2025-03-03 @ 10:00 am | 2025-03-06 @ 9:00 am | 0.9 ± 0.3 | 2025-03-10 |
| 11887115 | COUNSELING | 2025-03-03 @ 10:00 am | 2025-03-06 @ 9:00 am | < 0.3 | 2025-03-10 |
| 11887089 | COUNSELING 1 | 2025-03-03 @ 10:00 am | 2025-03-06 @ 9:00 am | 0.8 ± 0.3 | 2025-03-10 |
| 11887121 | COUNSELING 2 | 2025-03-03 @ 10:00 am | 2025-03-06 @ 9:00 am | < 0.3 | 2025-03-10 |
| 11887091 | COUNSELING 3 | 2025-03-03 @ 10:00 am | 2025-03-06 @ 9:00 am | < 0.3 | 2025-03-10 |
| 11887109 | COUNSELING 4 | 2025-03-03 @ 10:00 am | 2025-03-06 @ 9:00 am | < 0.3 | 2025-03-10 |
| 11887114 | COUNSELING 5 | 2025-03-03 @ 10:00 am | 2025-03-06 @ 9:00 am | < 0.3 | 2025-03-10 |

Radon test result report for:

| Kit # | Room Id | Started | Ended | pCi/L | Analyzed |
|----------|----------------------|-----------------------|----------------------|-----------|------------|
| 11887105 | COUNSELING 5 | 2025-03-03 @ 10:00 am | 2025-03-06 @ 9:00 am | < 0.3 | 2025-03-10 |
| 11887104 | COUNSELING 6 | 2025-03-03 @ 10:00 am | 2025-03-06 @ 9:00 am | < 0.3 | 2025-03-10 |
| 11887103 | COUNSELING 6 | 2025-03-03 @ 10:00 am | 2025-03-06 @ 9:00 am | < 0.3 | 2025-03-10 |
| 11887099 | COUNSELING 7 | 2025-03-03 @ 10:00 am | 2025-03-06 @ 9:00 am | < 0.3 | 2025-03-10 |
| 11887120 | COUNSELING 8 | 2025-03-03 @ 10:00 am | 2025-03-06 @ 9:00 am | < 0.3 | 2025-03-10 |
| 11887102 | COUNSELING 9 | 2025-03-03 @ 10:00 am | 2025-03-06 @ 9:00 am | < 0.3 | 2025-03-10 |
| 11887107 | COUNSELING REGISTRAR | 2025-03-03 @ 10:00 am | 2025-03-06 @ 9:00 am | < 0.3 | 2025-03-10 |
| 11887118 | COUNSELING WORKROOM | 2025-03-03 @ 10:00 am | 2025-03-06 @ 9:00 am | < 0.3 | 2025-03-10 |
| 11887023 | D127 | 2025-03-03 @ 10:00 am | 2025-03-06 @ 9:00 am | < 0.3 | 2025-03-10 |
| 11887039 | D128 | 2025-03-03 @ 9:00 am | 2025-03-06 @ 9:00 am | < 0.3 | 2025-03-10 |
| 11887058 | D128 | 2025-03-03 @ 9:00 am | 2025-03-06 @ 9:00 am | < 0.3 | 2025-03-10 |
| 11887084 | D129 | 2025-03-03 @ 9:00 am | 2025-03-06 @ 9:00 am | < 0.3 | 2025-03-10 |
| 11887032 | D130 | 2025-03-03 @ 9:00 am | 2025-03-06 @ 9:00 am | < 0.3 | 2025-03-10 |
| 11887034 | D131 | 2025-03-03 @ 9:00 am | 2025-03-06 @ 9:00 am | < 0.3 | 2025-03-10 |
| 11887072 | D132 | 2025-03-03 @ 9:00 am | 2025-03-06 @ 9:00 am | < 0.3 | 2025-03-10 |
| 11887040 | D133 | 2025-03-03 @ 9:00 am | 2025-03-06 @ 9:00 am | < 0.3 | 2025-03-10 |
| 11887017 | D134 | 2025-03-03 @ 9:00 am | 2025-03-06 @ 9:00 am | < 0.3 | 2025-03-10 |
| 11887060 | D135 | 2025-03-03 @ 9:00 am | 2025-03-06 @ 9:00 am | < 0.3 | 2025-03-10 |
| 11887077 | D136 | 2025-03-03 @ 9:00 am | 2025-03-06 @ 9:00 am | < 0.3 | 2025-03-10 |
| 11887071 | D136 | 2025-03-03 @ 9:00 am | 2025-03-06 @ 9:00 am | < 0.3 | 2025-03-10 |
| 11887029 | D137 | 2025-03-03 @ 9:00 am | 2025-03-06 @ 9:00 am | < 0.3 | 2025-03-10 |
| 11887073 | DRESSING ROOM | 2025-03-03 @ 8:00 am | 2025-03-06 @ 9:00 am | 1.3 ± 0.4 | 2025-03-10 |
| 11887082 | GYM | 2025-03-03 @ 9:00 am | 2025-03-06 @ 9:00 am | < 0.3 | 2025-03-10 |
| 11887049 | GYM | 2025-03-03 @ 9:00 am | 2025-03-06 @ 9:00 am | < 0.3 | 2025-03-10 |
| 11887085 | GYM 2 | 2025-03-03 @ 10:00 am | 2025-03-06 @ 9:00 am | < 0.3 | 2025-03-10 |
| 11887086 | GYM 2 | 2025-03-03 @ 10:00 am | 2025-03-06 @ 9:00 am | < 0.3 | 2025-03-10 |
| 11887087 | HEALTH | 2025-03-03 @ 8:00 am | 2025-03-06 @ 9:00 am | < 0.3 | 2025-03-10 |
| 11887038 | HEALTH | 2025-03-03 @ 8:00 am | 2025-03-06 @ 9:00 am | < 0.3 | 2025-03-10 |
| 11887045 | HEALTH OFFICE | 2025-03-03 @ 8:00 am | 2025-03-06 @ 9:00 am | < 0.3 | 2025-03-10 |
| 11887062 | KITCHEN OFFICE | 2025-03-03 @ 9:00 am | 2025-03-06 @ 9:00 am | < 0.3 | 2025-03-10 |
| 11887116 | MAILROOM | 2025-03-03 @ 10:00 am | 2025-03-06 @ 9:00 am | < 0.3 | 2025-03-10 |
| 11887122 | MAIN OFFICE | 2025-03-03 @ 10:00 am | 2025-03-06 @ 9:00 am | < 0.3 | 2025-03-10 |
| 11887056 | MAKEUP ROOM | 2025-03-03 @ 8:00 am | 2025-03-06 @ 9:00 am | 0.8 ± 0.3 | 2025-03-10 |
| 11887013 | MUSIC OFFICE | 2025-03-03 @ 8:00 am | 2025-03-06 @ 9:00 am | 1.2 ± 0.3 | 2025-03-10 |
| 11887046 | PE OFFICE | 2025-03-03 @ 7:00 am | 2025-03-06 @ 9:00 am | < 0.3 | 2025-03-10 |
| 11887125 | PRINCIPAL | 2025-03-03 @ 10:00 am | 2025-03-06 @ 9:00 am | < 0.3 | 2025-03-10 |
| 11887080 | SECURITY | 2025-03-03 @ 9:00 am | 2025-03-06 @ 9:00 am | < 0.3 | 2025-03-10 |

March 12, 2025

**** LABORATORY ANALYSIS REPORT ****

Radon test result report for:

| Kit # | Room Id | Started | Ended | pCi/L | Analyzed |
|--------------|----------------|-----------------------|----------------------|--------------|-----------------|
| 11887076 | SECURITY 2 | 2025-03-03 @ 9:00 am | 2025-03-06 @ 9:00 am | < 0.3 | 2025-03-10 |
| 11887044 | STAFF LOUNGE | 2025-03-03 @ 9:00 am | 2025-03-06 @ 9:00 am | < 0.3 | 2025-03-10 |
| 11887057 | STAGE | 2025-03-03 @ 8:00 am | 2025-03-06 @ 9:00 am | < 0.3 | 2025-03-10 |
| 11887093 | WORKROOM | 2025-03-03 @ 10:00 am | 2025-03-06 @ 9:00 am | < 0.3 | 2025-03-10 |
| 11887112 | WORKROOM | 2025-03-03 @ 10:00 am | 2025-03-06 @ 9:00 am | < 0.3 | 2025-03-10 |

Air Chek 1936 Butler Bridge Rd, Mills River, NC 28759-3892 Phone: (828) 684-0893 Fax: (828) 684-8498

March 10, 2025

**** LABORATORY ANALYSIS REPORT ****

Radon test result report for:

**OFFICE
MAIN**

| Kit # | Room Id | Started | Ended | pCi/L | Analyzed |
|--------------|----------------|-----------------------|-----------------------|--------------|-----------------|
| 11886966 | OB | 2025-03-03 @ 11:00 am | 2025-03-06 @ 11:00 am | < 0.3 | 2025-03-10 |

Air Chek 1936 Butler Bridge Rd, Mills River, NC 28759-3892 Phone: (828) 684-0893 Fax: (828) 684-8498

March 10, 2025

**** LABORATORY ANALYSIS REPORT ****

Radon test result report for:

**TRAVEL
MAIN**

| Kit # | Room Id | Started | Ended | pCi/L | Analyzed |
|--------------|----------------|-----------------------|-----------------------|--------------|-----------------|
| 11886999 | TB | 2025-03-03 @ 11:00 am | 2025-03-06 @ 11:00 am | < 0.3 | 2025-03-10 |

Air Chek 1936 Butler Bridge Rd, Mills River, NC 28759-3892 Phone: (828) 684-0893 Fax: (828) 684-8498

EXPOSURE IN BOWSER-MORNER RADON CHAMBER

CLIENT KCI TECHNOLOGIES, INC Job Number 20001560

NOMINAL Conditions: Radon Conc 50.6 pCi/L Rel. Hum 50.6% Temp. 70.8 F

Date Start: 12/14/24 Date Stop: 12/17/24 Date Start: _____ Date Stop: _____

Time Start: 0815 Time Stop: 0815 Time Start: _____ Time Stop: _____

Device No.'s: (3) CHAR BAGS Device No.'s: _____

11477880, 11477883, 11477896

B4 Right

Date Start: _____ Date Stop: _____ Date Start: _____ Date Stop: _____

Time Start: _____ Time Stop: _____ Time Start: _____ Time Stop: _____

Device No.'s: _____ Device No.'s: _____

Date Start: _____ Date Stop: _____ Date Start: _____ Date Stop: _____

Time Start: _____ Time Stop: _____ Time Start: _____ Time Stop: _____

Device No.'s: _____ Device No.'s: _____

**Note: All times are in 24-hour (military) notation, Eastern Standard Time (EST)
Background = 7 μ R/h Elevation = 820 ft**

December 23, 2024

**** LABORATORY ANALYSIS REPORT ****

Radon test result report for:

**SK
MAIN**

| Kit # | Room Id | Started | Ended | pCi/L | Analyzed |
|--------------|----------------|----------------------|----------------------|--------------|-----------------|
| 11477880 | SK1 | 2024-12-14 @ 8:00 am | 2024-12-17 @ 8:00 am | 52.0 ± 4.2 | 2024-12-23 |
| 11477883 | SK2 | 2024-12-14 @ 8:00 am | 2024-12-17 @ 8:00 am | 54.6 ± 4.4 | 2024-12-23 |
| 11477896 | SK3 | 2024-12-14 @ 8:00 am | 2024-12-17 @ 8:00 am | 45.5 ± 3.6 | 2024-12-23 |

Air Chek 1936 Butler Bridge Rd, Mills River, NC 28759-3892 Phone: (828) 684-0893 Fax: (828) 684-8498

EXPOSURE IN BOWSER-MORNER RADON CHAMBER

CLIENT KCI TECHNOLOGIES, INC Job Number 20002919

NOMINAL Conditions: Radon Conc 7.0 pCi/L Rel. Hum 51.4 % Temp. 70.7 F

Date Start: 3/7/25 Date Stop: 3/10/25 Date Start: _____ Date Stop: _____

Time Start: 0832 Time Stop: 0832 Time Start: _____ Time Stop: _____

Device No.'s: (7) CHAR BAGS Device No.'s: _____

11886401 thru 11886406,

11886410

G3 Right

Date Start: _____ Date Stop: _____ Date Start: _____ Date Stop: _____

Time Start: _____ Time Stop: _____ Time Start: _____ Time Stop: _____

Device No.'s: _____ Device No.'s: _____

Date Start: _____ Date Stop: _____ Date Start: _____ Date Stop: _____

Time Start: _____ Time Stop: _____ Time Start: _____ Time Stop: _____

Device No.'s: _____ Device No.'s: _____

**Note: All times are in 24-hour (military) notation, Eastern Standard Time (EST)
Background = 7 μ R/h Elevation = 820 ft**

March 19, 2025

**** LABORATORY ANALYSIS REPORT ****

Radon test result report for:

QC
MAIN

| Kit # | Room Id | Started | Ended | pCi/L | Analyzed |
|--------------|----------------|----------------------|----------------------|--------------|-----------------|
| 11886401 | SK1 | 2025-03-07 @ 9:00 am | 2025-03-10 @ 9:00 am | 7.8 ± 1.1 | 2025-03-19 |
| 11886405 | SK2 | 2025-03-07 @ 9:00 am | 2025-03-10 @ 9:00 am | 7.1 ± 1.1 | 2025-03-19 |
| 11886406 | SK3 | 2025-03-07 @ 9:00 am | 2025-03-10 @ 9:00 am | 7.7 ± 1.1 | 2025-03-19 |
| 11886403 | SK4 | 2025-03-07 @ 9:00 am | 2025-03-10 @ 9:00 am | 7.9 ± 1.2 | 2025-03-19 |
| 11886404 | SK5 | 2025-03-07 @ 9:00 am | 2025-03-10 @ 9:00 am | 7.6 ± 1.2 | 2025-03-19 |
| 11886410 | SK6 | 2025-03-07 @ 9:00 am | 2025-03-10 @ 9:00 am | 7.0 ± 1.1 | 2025-03-19 |
| 11886402 | SK7 | 2025-03-07 @ 9:00 am | 2025-03-10 @ 9:00 am | 8.6 ± 1.2 | 2025-03-19 |

Air Chek 1936 Butler Bridge Rd, Mills River, NC 28759-3892 Phone: (828) 684-0893 Fax: (828) 684-8498



Radon Test Kit Chain of Custody

Project Name: MCPS Radon – Testing March 3rd – March 6th, 2025

Name of Schools:

1. Col. Zadok Magruder HS
2. S. Christa McAuliffe ES
3. Ronald McNair ES
4. Montgomery Village MS
5. Neelsville MS

| | Date | Initials |
|----------------------------------|----------|----------|
| Radon Test Kits Deployed | 3/3/2025 | DM |
| Radon Test Kits Collected | 3/6/2025 | AM |
| Radon Test Kits Shipped to Lab* | 3/6/2025 | AM |
| Radon Test Kits Received by Lab* | 3/8/2025 | DM |

*All samples sent to Air Check, Inc., 2 Saber Way, Ward Hill, MA 01835



MCPS RADON TESTING - EXECUTIVE SUMMARY

| | |
|--------------------------|---|
| Site Name | Magruder High School |
| Date of Report | 2/28/2020 |
| Round of Testing | Initial Follow-up Post Remediation 2 year testing 5 year testing HVAC Upgrade Window Replacement New Addition New Facility |
| # of Rooms Tested | 6 |
| # Rooms \geq 4.0 pCi/L | 0 |
| Lowest Value | <0.3 pCi/L |
| Highest Value | <0.3 pCi/L |

Project Status

Current Project Status at this time: Retesting completed; no further action



2/28/2020

Mr. Richard Cox, MS
Team Leader
Montgomery County Public Schools
Division of Maintenance
Gaithersburg, Maryland 20879

Re: Radon Testing Services

KCI Job #12146341.126

Location: Magruder High School

5939 Muncastor Mill Road
Rockville, Maryland 20855

Dear Mr. Cox:

KCI Technologies, Inc. (KCI) is pleased to submit the following report to Montgomery County Public Schools pursuant to completing a “short-term” 3-day radon test for the Magruder High School, located at 5939 Muncastor Mill Road in Rockville, Maryland 20855 (subject site).

SCOPE OF SERVICES

KCI conducted radon testing at the subject site to evaluate indoor radon levels relative to the USEPA's recommended action level of 4.0 picocuries per Liter (pCi/L) - the level at which EPA recommends that schools take action to reduce the level. KCI conducted the radon testing in accordance with American Association of Radon Scientists and Technologists (AARST) *Protocol for Conducting Measurements of Radon and Radon Decay Products in Schools and Large Buildings*. A National Radon Safety Board (NRSB) Radon Measurement Specialist (certification #111004 RT) supervised the testing. Additional information on radon management and the health effects of radon exposure is available from www.montgomerycountymd.gov/dep/air/radon or www.epa.gov/radon.

KCI visited the site on 2/11/2020 and deployed seven (7) activated charcoal (AC) radon test kits. KCI deployed radon test kits in frequently-occupied ground contact rooms, and other areas, (if applicable) in accordance with AARST guidance.

KCI sampled the following locations during this follow-up test:

1. Rooms with missing test kits from the December 2019 testing period (i.e. test kit was deployed but not recovered),

-
2. Rooms with invalidated test kits from the December 2019 testing period (e.g. an open window in the room or disturbed test kit),
 3. Rooms which were locked/inaccessible during the December 2019 testing period,
 4. Rooms with elevated December 2019 results (i.e. ≥ 3.5 pCi/L),
 5. Rooms previously tested for radon but not tested in December 2019, and
 6. Additional rooms that require testing (if applicable.)

A floor plan map of the building with the test locations is included as Appendix A of this report.

As a quality control measure, KCI included duplicate samples, field blanks, lab transit blanks, and office blanks in accordance with AARST recommendations. In addition, KCI submitted six (6) test kits to Bowser-Morner, Inc. as spike samples. The spiked tests were exposed to a known radon concentration by Bowser-Morner, Inc. prior to being returned to the laboratory for analysis.

KCI returned to the site on 2/14/2020 to retrieve the radon sampling test kits. KCI shipped all radon tests via overnight delivery to Aircheck, Inc. for analysis by gamma-ray spectroscopy. Aircheck, Inc. is a NRSB certified analytical laboratory for radon analysis (certification #ARL1402) located at 1936 Butler Bridge Road, Mills River, North Carolina.

EVALUATION OF TESTING CONDITIONS

These tests represent:

- Follow-up to initial testing.

These tests were conducted to:

- Evaluate radon concentrations at the facility.

According to AARST, *Protocol for Conducting Measurements of Radon and Radon Decay Products in Schools and Large Buildings*, ideal testing conditions would be when the building is fully occupied and the heating system is active. For this test, the facility's HVAC system was operating in heating mode; therefore, KCI concludes that this test was conducted during ideal testing conditions.

KCI recorded observations of the following conditions in each room at the time of deployment and collection of the radon test kits:

- Indoor temperature,
- HVAC Operation,
- Dehumidifier operation,
- Humidifier operation,
- Ceiling fan operation, and
- Open windows or doors.

KCI also compiled weather data for the testing period and conducted observations of relevant field conditions. During the test period, weather records indicate low temperatures were in the mid-20s to the upper-40s; and high temperatures ranged from the lower-40s to the upper-50s. Maximum sustained winds ranged from 14-24 miles per hour. Average humidity was approximately 74%. A total of 1.32 inches of rain were recorded during the testing period. The weather conditions during the testing period may have resulted in atypical radon test results for this facility.

RESULTS

The sampling locations and analytical results are listed on Table 1 (Attachment B). The quality control sample locations and analytical results are listed on Table 2 (Attachment B). Follow-up sampling locations and associated test kit identification numbers and relevant field observations are listed on Table 3 (Attachment B). The laboratory analytical results are included in Attachment C. Laboratory results and exposure data for the spike samples are also included in Attachment C.

The results of the radon test analysis indicated the following:

| Radon Concentration | Room | Result |
|---------------------|------------------|------------------|
| ≥4.0 pCi/L | None | N/A |
| ≤4.0 pCi/L | See Attachment B | See Attachment B |

| Quality Control Samples | |
|--------------------------------|--|
| Results of Blank Canisters: | The office blanks, and lab transit blanks had test results of less than the laboratory detection limit of 0.3 pCi/L. |
| Adequate Laboratory Precision? | Review of the duplicate sample analysis indicates that adequate laboratory measurement precision was achieved. |
| Spike Sample Analysis: | The Spike sample analysis results indicate the laboratory is operating within statistical control limits. |

Our professional services have been performed in accordance with customary principles and practices in the field of industrial hygiene and engineering. If you have any questions or comments regarding this report, please feel free to contact me at 410-316-7800.

Sincerely,

Mr. Tyler P. McCleaf
 Radon Measurement Provider
 KCI Technologies, Inc.

Attachments:

A- Floor Plan with Test Locations

B - Tables 1-3, Radon Test Summary Spreadsheets

C- Laboratory Analytical Results

ATTACHMENT A

Floor Plan With Test Locations

Floor Plan Legend

X-Sample Location (in red)

X- Previous Sample Location

1- Not Samled; No Ground Contact

2- Not Samled; Unoccupied (e.g. Storage, Mechanical)

3- Not Samled; High Humidity/Moisture

4- Not Samled; Bathroom/Hallway

ATTACHMENT B

Radon Test Summary Spreadsheet

Table Notes:

AC- Activated Charcoal

ACI- Air Chek, Inc.

D- Duplicate

FB- Field Blank

KCI- KCI Technologies, Inc.

OB- Office Blank

PM- Project Manager

QC- Quality Control

| Table 1- Radon Testing Results | | |
|--------------------------------|------------------|--------|
| Magruder High School | | |
| Test Period: 02/11/20-02/14/20 | | |
| | | |
| Kit Number | Room / Area | Result |
| 9348547 | BOYS LOCKER ROOM | < 0.3 |
| 9348561 | D130 | < 0.3 |
| 9348562 | B231 | < 0.3 |
| 9348563 | AP3 | < 0.3 |
| 9348565 | D133 | < 0.3 |
| 9348566 | BS 138 | < 0.3 |
| 9348502 | OFFICE BLANK | < 0.3 |

| Table 2- Radon Testing Results | | | |
|--------------------------------|---------------|-------------|--------|
| Magruder High School | | | |
| Test Period: 02/11/20-02/14/20 | | | |
| | | | |
| Kit Number | QC Type | Room / Area | Result |
| 9348522 | TRANSIT BLANK | NA | 0.7 |
| 9341735 | TRANSIT BLANK | NA | <0.3 |

ATTACHMENT C

Laboratory Analytical Results

February 25, 2020

**** LABORATORY ANALYSIS REPORT ****

Radon test result report for:
MAGRUDER HS RT
1

| Kit # | Room Id | Started | Ended | pCi/L | Analyzed |
|--------------|------------------|-----------------------|-----------------------|--------------|-----------------|
| 9348563 | AP3 | 2020-02-11 @ 12:00 pm | 2020-02-14 @ 12:00 pm | < 0.3 | 2020-02-18 |
| 9348562 | B231 | 2020-02-11 @ 12:00 pm | 2020-02-14 @ 12:00 pm | < 0.3 | 2020-02-18 |
| 9348547 | BOYS LOCKER ROOM | 2020-02-11 @ 12:00 pm | 2020-02-14 @ 12:00 pm | < 0.3 | 2020-02-18 |
| 9348566 | BS 138 | 2020-02-11 @ 12:00 pm | 2020-02-14 @ 12:00 pm | < 0.3 | 2020-02-18 |
| 9348561 | D130 | 2020-02-11 @ 12:00 pm | 2020-02-14 @ 12:00 pm | < 0.3 | 2020-02-18 |
| 9348565 | D133 | 2020-02-11 @ 12:00 pm | 2020-02-14 @ 12:00 pm | < 0.3 | 2020-02-18 |

Air Chek 1936 Butler Bridge Rd, Mills River, NC 28759-3892 Phone: (828) 684-0893 Fax: (828) 684-8498

EXPOSURE IN BOWSER-MORNER RADON CHAMBER

CLIENT KCI Technologies, Inc. Job Number 194523

NOMINAL Conditions: Radon Conc 25.8 pCi/L Rel. Hum 49.8 % Temp. 70.2 F

Date Start: 2/21/20 Date Stop: 2/24/20 Date Start: _____ Date Stop: _____

Time Start: 0745 Time Stop: 0745 Time Start: _____ Time Stop: _____

Device No.'s: (9) Char Bags - Device No.'s: _____

9341725 thru 9341733

52 ceph

Date Start: _____ Date Stop: _____ Date Start: _____ Date Stop: _____

Time Start: _____ Time Stop: _____ Time Start: _____ Time Stop: _____

Device No.'s: _____ Device No.'s: _____

Date Start: _____ Date Stop: _____ Date Start: _____ Date Stop: _____

Time Start: _____ Time Stop: _____ Time Start: _____ Time Stop: _____

Device No.'s: _____ Device No.'s: _____

Note: All times are in 24-hour (military) notation, Eastern Standard Time (EST)
Background = 7 μ R/h Elevation = 820 ft

Radon test result report for:

MCPS - Spike Sample Lab Results. Measured values are satisfactory, i.e., within $\pm 25\%$ of the chamber's reference value (25.7 pCi/L).

| Kit # | Room Id | Started | Ended | pCi/L | Analyzed |
|--------------|----------------|----------------------|----------------------|----------------|-----------------|
| 9341725 | N/A | 2020-02-21 @ 8:00 am | 2020-02-24 @ 8:00 am | 26.9 \pm 1.6 | 2020-02-26 |
| 9341730 | N/A | 2020-02-21 @ 8:00 am | 2020-02-24 @ 8:00 am | 26.1 \pm 1.6 | 2020-02-26 |
| 9341728 | N/A | 2020-02-21 @ 8:00 am | 2020-02-24 @ 8:00 am | 26.9 \pm 1.6 | 2020-02-26 |
| 9341726 | N/A | 2020-02-21 @ 8:00 am | 2020-02-24 @ 8:00 am | 25.8 \pm 1.5 | 2020-02-26 |
| 9341731 | N/A | 2020-02-21 @ 8:00 am | 2020-02-24 @ 8:00 am | 25.1 \pm 1.5 | 2020-02-26 |
| 9341729 | N/A | 2020-02-21 @ 8:00 am | 2020-02-24 @ 8:00 am | 26.2 \pm 1.6 | 2020-02-26 |
| 9341727 | N/A | 2020-02-21 @ 8:00 am | 2020-02-24 @ 8:00 am | 27.2 \pm 1.6 | 2020-02-26 |
| 9341732 | N/A | 2020-02-21 @ 8:00 am | 2020-02-24 @ 8:00 am | 27.3 \pm 1.6 | 2020-02-26 |



Radon Test Kit Chain of Custody

Project Name: MCPS Radon 2019 Week 2

Name of Schools:

- | | |
|-----------------------|-------------------|
| 1. Argyle M.S. | 6. Fallsmead E.S. |
| 2. Banneker M.S. | 7. Farquhar M.S. |
| 3. Bel Pre E.S. | 8. Kennedy H.S. |
| 4. Blake H.S. | 9. Magruder H.S. |
| 5. Briggs Chaney M.S. | 10. Wheaton H.S. |

| | Date | Initials |
|----------------------------------|---------|----------|
| Radon Test Kits Deployed | 2/11/20 | JM |
| Radon Test Kits Collected | 2/14/20 | JM |
| Radon Test Kits Shipped to Lab* | 2/14/20 | JM |
| Radon Test Kits Received by Lab* | 2/17/20 | JM |

*All samples sent to Air Check, Inc., 1936 Butler Bridge Rd, Mills River, NC 28759



MCPS RADON TESTING - EXECUTIVE SUMMARY

| | |
|--------------------------|---|
| Site Name | Colonel Zadok Magruder High School |
| Date of Report | 2/3/2020 |
| Round of Testing | Initial Follow-up Post Remediation 2 year testing 5 year testing HVAC Upgrade Window Replacement New Addition New Facility |
| # of Rooms Tested | 103 |
| # Rooms \geq 4.0 pCi/L | 0 |
| Lowest Value | <0.3 pCi/L |
| Highest Value | 1.3 pCi/L |

Project Status

Current Project Status at this time: Testing Complete; missed locations and missing/compromised tests to be sampled.



2/3/2020

Mr. Richard Cox, MS
Environmental Team Leader
Montgomery County Public Schools
Division of Maintenance
Gaithersburg, Maryland 20879

Re: Radon Testing Services

KCI Job #12146341126

Location: Colonel Zadok Magruder High School

5939 Muncastor Mill Road
Rockville, Maryland 20855

Dear Mr. Cox:

KCI Technologies, Inc. (KCI) is pleased to submit the following report to Montgomery County Public Schools pursuant to completing a “short-term” 3-day radon test for the Colonel Zadok Magruder High School, located at 5939 Muncastor Mill Road in Rockville, Maryland 20855 (subject site).

SCOPE OF SERVICES

KCI conducted radon testing at the subject site to evaluate indoor radon levels relative to the USEPA's recommended action level of 4.0 picocuries per Liter (pCi/L) - the level at which EPA recommends that schools take action to reduce the level. KCI conducted the radon testing in accordance with American Association of Radon Scientists and Technologists (AARST) *Protocol for Conducting Measurements of Radon and Radon Decay Products in Schools and Large Buildings*. A National Radon Proficiency Program (NRPP) Radon Measurement Provider (certification #111004 RT) supervised the testing. Additional information on radon management and the health effects of radon exposure is available from <https://www.montgomeryschoolsmd.org/departments/facilities/maintenance/default.aspx?id=458858> or www.epa.gov/radon.

KCI visited the site on 12/17/2019 and deployed one-hundred twenty-six (126) activated charcoal (AC) radon test kits. KCI deployed radon test kits in frequently-occupied ground contact rooms, and other areas, (if applicable) in accordance with AARST guidance.

A floor plan map of the building with the test locations is included as Appendix A of this report.

As a quality control measure, KCI included duplicate samples, field blanks, lab transit blanks, and office blanks in accordance with AARST recommendations. In addition, KCI submitted sixty (60) test kits to Bowser-Morner, Inc. as spike samples. The spiked tests were exposed to a known radon concentration by Bowser-Morner, Inc. prior to being returned to the laboratory for analysis.

KCI returned to the site on 12/20/2019 to retrieve the radon sampling test kits. KCI shipped all radon tests via overnight delivery to Aircheck, Inc. for analysis by gamma-ray spectroscopy. Aircheck, Inc. is a National Radon Safety Board (NRSB) radon measurement provider and is a certified analytical laboratory for radon analysis (certification #ARL1402) located at 1936 Butler Bridge Road, Mills River, North Carolina.

EVALUATION OF TESTING CONDITIONS

These tests represent:

- Follow-up to initial testing.

These tests were conducted to:

- Evaluate radon concentrations at the facility.

According to AARST, *Protocol for Conducting Measurements of Radon and Radon Decay Products in Schools and Large Buildings*, ideal testing conditions would be when the building is fully occupied and the heating system is active. For this test, the facility's HVAC system was operating in heating mode; therefore, KCI concludes that this test was conducted during ideal testing conditions.

KCI recorded observations of the following conditions in each room at the time of deployment and collection of the radon test kits:

- Indoor temperature,
- HVAC Operation,
- Dehumidifier operation,
- Humidifier operation,
- Ceiling fan operation, and
- Open windows or doors.

KCI also compiled weather data for the testing period and conducted observations of relevant field conditions. During the test period, weather records indicate low temperatures were in the lower-20s and high temperatures were in the lower-40s. Maximum sustained winds ranged from 12-26 miles per hour. Average humidity was around 67%. 0.54 inches of precipitation (rain and snow) was recorded during the testing period.

RESULTS

The sampling locations and analytical results are listed on Table 1 (Attachment B). The quality control sample locations and analytical results are listed on Table 2 (Attachment B). Sampling locations and associated test kit identification numbers and relevant field observations are listed on Table 3 (Attachment B). The laboratory analytical results are included in Attachment C. Laboratory results and exposure data for the spike samples are also included in Attachment C.

The results of the radon test analysis indicated the following:

| Radon Concentration | Room | Result |
|----------------------------|------------------|------------------|
| ≥4.0 pCi/L | None | N/A |
| ≤4.0 pCi/L | See Attachment B | See Attachment B |

| Quality Control Samples | |
|--------------------------------|--|
| Results of Blank Canisters: | The office blanks, and lab transit blanks had test results of less than the laboratory detection limit of 0.3 pCi/L. |
| Adequate Laboratory Precision? | Review of the duplicate sample analysis indicates that adequate laboratory measurement precision was achieved. |
| Spike Sample Analysis: | The Spike sample analysis results indicate the laboratory is operating within statistical control limits. |

Our professional services have been performed in accordance with customary principles and practices in the field of industrial hygiene and engineering. If you have any questions or comments regarding this report, please feel free to contact me at 410-316-7800.

Sincerely,

Mr. Tyler P. McCleaf
Radon Measurement Provider
111004 RT

KCI Technologies, Inc.

Attachments:

A- Floor Plan with Test Locations

B - Tables 1-3, Radon Test Summary Spreadsheets

C- Laboratory Analytical Results

ATTACHMENT A

Floor Plan With Test Locations

ATTACHMENT B

Radon Test Summary Spreadsheet

Table Notes:

AC- Activated Charcoal

ACI- Air Chek, Inc.

D- Duplicate

FB- Field Blank

KCI- KCI Technologies, Inc.

OB- Office Blank

PM- Project Manager

QC- Quality Control

| Table 1- Radon Testing Results | | |
|------------------------------------|--------------------------|---------|
| Magruder High School | | |
| Test Period: 12/17/2019-12/20/2019 | | |
| Kit Number | Room / Area | Result |
| 9339702 | FO2 | < 0.3 |
| 9339703 | FO2 | 0.8 |
| 9339707 | GUIDANCE OFFICE | 0.5 |
| 9339708 | GCONF | 0.8 |
| 9339711 | REGISTRAR | < 0.3 |
| 9339713 | GO1 | 0.9 |
| 9339714 | GO2 | 1.3 |
| 9339715 | AUDITORIUM | < 0.3 |
| 9339716 | ATTENDANCE OFFICE | < 0.3 |
| 9339717 | ADMIN CONFERENCE ROOM | < 0.3 |
| 9339718 | ADMIN CONFERENCE ROOM | < 0.3 |
| 9339719 | PRINCIPAL OFFICE | < 0.3 |
| 9339720 | AP2 | 0.7 |
| 9339721 | SECURITY | 0.5 |
| 9339722 | CONF2 | < 0.3 |
| 9339723 | AP3 | MISSING |
| 9339724 | FO1 | < 0.3 |
| 9339725 | B111 | 0.8 |
| 9339726 | STAFF LOUNGE | < 0.3 |
| 9339728 | AUDITORIUM | 0.6 |
| 9339729 | CAREER CENTER | 0.5 |
| 9339730 | FO2 | < 0.3 |
| 9339731 | HEALTH ROOM OFFICE | < 0.3 |
| 9339732 | STAFF LOUNGE | < 0.3 |
| 9339733 | ADMIN SECRETARY | < 0.3 |
| 9339734 | AP1 | < 0.3 |
| 9339735 | A102 OFFICE | < 0.3 |
| 9339736 | A100 | < 0.3 |
| 9339737 | MAIN OFFICE | < 0.3 |
| 9339738 | B112 | < 0.3 |
| 9339739 | MAIL ROOM | < 0.3 |
| 9339740 | WORK ROOM | < 0.3 |
| 9339741 | A101 | 0.7 |
| 9339742 | A101 | < 0.3 |
| 9339743 | DRAMA OFFICE | 1.3 |
| 9339744 | B110 | 0.8 |
| 9339745 | ATHLETIC DIRECTOR OFFICE | < 0.3 |
| 9339746 | B113 | < 0.3 |
| 9339747 | KITCHEN OFFICE | < 0.3 |
| 9339748 | B114 | < 0.3 |
| 9339749 | A103 | 0.8 |
| 9339750 | HEALTH ROOM | 0.5 |
| 9339751 | KITCHEN OFFICE | < 0.3 |
| 9339752 | CAFETERIA | 0.7 |
| 9339753 | KITCHEN OFFICE | < 0.3 |
| 9339754 | B115 | < 0.3 |
| 9339755 | STAFF LOUNGE | < 0.3 |
| 9339756 | ESOL OFFICE | < 0.3 |
| 9339757 | A107 | 0.8 |
| 9339758 | GYM1 | 1 |

| | | |
|---------|----------------------|---------|
| 9339759 | GYM1 | 1.1 |
| 9339760 | GYM1 | 0.6 |
| 9339761 | A102 | 0.6 |
| 9339762 | GYM1 OFFICE | < 0.3 |
| 9339763 | GYM1 | 1 |
| 9339764 | A105 | 0.6 |
| 9339765 | A106 | 1.1 |
| 9339766 | A105 OFFICE | 1.1 |
| 9339767 | GYM1 OFFICE | < 0.3 |
| 9339768 | A104 | 0.9 |
| 9339769 | AUXILIARY GYM | 1.1 |
| 9339770 | CAFETERIA | 0.6 |
| 9339771 | A202 | 0.6 |
| 9339772 | A201 | < 0.3 |
| 9339773 | A206 | < 0.3 |
| 9339774 | A205 | 0.7 |
| 9339775 | B231 | MISSING |
| 9339776 | MEDIA CENTER | 0.5 |
| 9339777 | MEDIA CENTER WR | < 0.3 |
| 9339778 | MC COPY ROOM | 0.6 |
| 9339787 | GWR | 0.6 |
| 9339788 | GO3 | 0.5 |
| 9339789 | GO6 | 1 |
| 9339792 | G7.5 | < 0.3 |
| 9339793 | GO4 | 0.6 |
| 9339794 | GO4 | 0.7 |
| 9339795 | GO7 | < 0.3 |
| 9339796 | GO8 | < 0.3 |
| 9339797 | A203 | 0.8 |
| 9339798 | A200 | < 0.3 |
| 9339799 | WORLD LANGUAGE | < 0.3 |
| 9339800 | GO5 | 0.6 |
| 9339802 | WEIGHT ROOM | < 0.3 |
| 9339803 | PE OFFICE 2 | 0.6 |
| 9339804 | GYM2 | < 0.3 |
| 9339806 | GYM2 | < 0.3 |
| 9339809 | C126 OFFICE | 0.6 |
| 9339810 | BOYS LOCKER ROOM | MISSING |
| 9339811 | A108 | < 0.3 |
| 9339812 | WEIGHT ROOM | 0.7 |
| 9339817 | A108 O1 | < 0.3 |
| 9339823 | WEIGHT ROOM | < 0.3 |
| 9339824 | BOYS PE OFFICE | 0.6 |
| 9339868 | C123 | 0.6 |
| 9339869 | D134 | < 0.3 |
| 9339870 | D134 | < 0.3 |
| 9339871 | D135 | < 0.3 |
| 9339872 | D136 | < 0.3 |
| 9339873 | D128 | < 0.3 |
| 9339874 | D127 | < 0.3 |
| 9339875 | D137 | < 0.3 |
| 9339876 | C126 | < 0.3 |
| 9339877 | C126 | < 0.3 |
| 9339878 | GYM2 | < 0.3 |
| 9339879 | COACH/REFEREE OFFICE | < 0.3 |

| | | |
|---------|--------------|---------|
| 9339880 | C122 | 0.6 |
| 9339881 | C121 | < 0.3 |
| 9339882 | C120 | 0.5 |
| 9339883 | C120 OFFICE | < 0.3 |
| 9339884 | C119 | 0.5 |
| 9339885 | C119 | < 0.3 |
| 9339886 | C119A | < 0.3 |
| 9339887 | C118 | < 0.3 |
| 9339888 | C11I | < 0.3 |
| 9339889 | C116 | 0.7 |
| 9339890 | D132 | < 0.3 |
| 9339891 | D134 | < 0.3 |
| 9339892 | C124 | < 0.3 |
| 9339893 | D131 | < 0.3 |
| 9339894 | C125 OFFICE | 0.6 |
| 9339895 | C125 | < 0.3 |
| 9339896 | S10 | 0.7 |
| 9339897 | D133 | MISSING |
| 9339898 | D129 | < 0.3 |
| 9339899 | D130 | MISSING |
| 9339900 | A108 O2 | < 0.3 |
| 9341375 | OFFICE BLANK | < 0.3 |

| Table 2- Radon Testing Results | | | |
|------------------------------------|---------------|-----------------------|--------|
| Magruder High School | | | |
| Test Period: 12/16/2019-12/19/2019 | | | |
| Kit Number | QC Type | Room / Area | Result |
| 9339884 | D | C119 | 0.5 |
| 9339891 | FB | D134 | <0.3 |
| 9339869 | D | D134 | <0.3 |
| 9339877 | D | C126 | <0.3 |
| 9339802 | FB | WEIGHT ROOM | <0.3 |
| 9339823 | D | WEIGHT ROOM | <0.3 |
| 9339762 | D | GYM1 OFFICE | <0.3 |
| 9339751 | FB | KITCHEN OFFICE | <0.3 |
| 9339753 | D | KITCHEN OFFICE | <0.3 |
| 9339741 | D | A101 | 0.7 |
| 9339726 | FB | STAFF LOUNGE | <0.3 |
| 9339755 | D | STAFF LOUNGE | <0.3 |
| 9339717 | D | ADMIN CONFERENCE ROOM | <0.3 |
| 9339730 | FB | FO2 | <0.3 |
| 9339702 | D | FO2 | <0.3 |
| 9339793 | D | GO4 | 0.6 |
| 9341377 | TRANSIT BLANK | NA | 0.5 |
| 9341379 | TRANSIT BLANK | NA | < 0.3 |
| 9341380 | TRANSIT BLANK | NA | < 0.3 |
| 9341398 | TRANSIT BLANK | NA | < 0.3 |

ATTACHMENT C

Laboratory Analytical Results

Radon test result report for:
MAGRUDER HS
MAIN

| Kit # | Room Id | Started | Ended | pCi/L | Analyzed |
|---------|--------------------------|----------------------|----------------------|-----------|------------|
| 9339736 | A100 | 2019-12-17 @ 3:00 pm | 2019-12-20 @ 8:00 am | < 0.3 | 2019-12-24 |
| 9339741 | A101 | 2019-12-17 @ 3:00 pm | 2019-12-20 @ 8:00 am | 0.7 ± 0.4 | 2019-12-24 |
| 9339742 | A101 | 2019-12-17 @ 3:00 pm | 2019-12-20 @ 8:00 am | < 0.3 | 2019-12-24 |
| 9339761 | A102 | 2019-12-17 @ 3:00 pm | 2019-12-20 @ 8:00 am | 0.6 ± 0.4 | 2019-12-24 |
| 9339735 | A102 OFFICE | 2019-12-17 @ 3:00 pm | 2019-12-20 @ 8:00 am | < 0.3 | 2019-12-24 |
| 9339749 | A103 | 2019-12-17 @ 3:00 pm | 2019-12-20 @ 8:00 am | 0.8 ± 0.4 | 2019-12-24 |
| 9339768 | A104 | 2019-12-17 @ 3:00 pm | 2019-12-20 @ 8:00 am | 0.9 ± 0.4 | 2019-12-24 |
| 9339764 | A105 | 2019-12-17 @ 3:00 pm | 2019-12-20 @ 7:00 am | 0.6 ± 0.4 | 2019-12-24 |
| 9339766 | A105 OFFICE | 2019-12-17 @ 3:00 pm | 2019-12-20 @ 7:00 am | 1.1 ± 0.4 | 2019-12-24 |
| 9339765 | A106 | 2019-12-17 @ 3:00 pm | 2019-12-20 @ 7:00 am | 1.1 ± 0.4 | 2019-12-24 |
| 9339757 | A107 | 2019-12-17 @ 3:00 pm | 2019-12-20 @ 7:00 am | 0.8 ± 0.4 | 2019-12-24 |
| 9339811 | A108 | 2019-12-17 @ 3:00 pm | 2019-12-20 @ 7:00 am | < 0.3 | 2019-12-24 |
| 9339817 | A108 O1 | 2019-12-17 @ 3:00 pm | 2019-12-20 @ 7:00 am | < 0.3 | 2019-12-24 |
| 9339900 | A108 O2 | 2019-12-17 @ 3:00 pm | 2019-12-20 @ 7:00 am | < 0.3 | 2019-12-24 |
| 9339798 | A200 | 2019-12-17 @ 3:00 pm | 2019-12-20 @ 9:00 am | < 0.3 | 2019-12-24 |
| 9339772 | A201 | 2019-12-17 @ 3:00 pm | 2019-12-20 @ 9:00 am | < 0.3 | 2019-12-24 |
| 9339771 | A202 | 2019-12-17 @ 3:00 pm | 2019-12-20 @ 9:00 am | 0.6 ± 0.4 | 2019-12-24 |
| 9339797 | A203 | 2019-12-17 @ 3:00 pm | 2019-12-20 @ 9:00 am | 0.8 ± 0.4 | 2019-12-24 |
| 9339774 | A205 | 2019-12-17 @ 3:00 pm | 2019-12-20 @ 9:00 am | 0.7 ± 0.4 | 2019-12-24 |
| 9339773 | A206 | 2019-12-17 @ 3:00 pm | 2019-12-20 @ 9:00 am | < 0.3 | 2019-12-24 |
| 9339717 | ADMIN CONFERENCE ROOM | 2019-12-17 @ 3:00 pm | 2019-12-20 @ 8:00 am | < 0.3 | 2019-12-24 |
| 9339718 | ADMIN CONFERENCE ROOM | 2019-12-17 @ 3:00 pm | 2019-12-20 @ 8:00 am | < 0.3 | 2019-12-24 |
| 9339733 | ADMIN SECRETARY | 2019-12-17 @ 3:00 pm | 2019-12-20 @ 8:00 am | < 0.3 | 2019-12-24 |
| 9339734 | AP1 | 2019-12-17 @ 3:00 pm | 2019-12-20 @ 8:00 am | < 0.3 | 2019-12-24 |
| 9339720 | AP2 | 2019-12-17 @ 3:00 pm | 2019-12-20 @ 8:00 am | 0.7 ± 0.4 | 2019-12-24 |
| 9339745 | ATHLETIC DIRECTOR OFFICE | 2019-12-17 @ 3:00 pm | 2019-12-20 @ 8:00 am | < 0.3 | 2019-12-24 |
| 9339716 | ATTENDANCE OFFICE | 2019-12-17 @ 3:00 pm | 2019-12-20 @ 8:00 am | < 0.3 | 2019-12-24 |
| 9339715 | AUDITORIUM | 2019-12-17 @ 3:00 pm | 2019-12-20 @ 8:00 am | < 0.3 | 2019-12-24 |
| 9339728 | AUDITORIUM | 2019-12-17 @ 3:00 pm | 2019-12-20 @ 8:00 am | 0.6 ± 0.4 | 2019-12-24 |
| 9339769 | AUXILIARY GYM | 2019-12-17 @ 3:00 pm | 2019-12-20 @ 7:00 am | 1.1 ± 0.4 | 2019-12-24 |
| 9339744 | B110 | 2019-12-17 @ 3:00 pm | 2019-12-20 @ 8:00 am | 0.8 ± 0.4 | 2019-12-24 |
| 9339725 | B111 | 2019-12-17 @ 3:00 pm | 2019-12-20 @ 8:00 am | 0.8 ± 0.4 | 2019-12-24 |
| 9339738 | B112 | 2019-12-17 @ 3:00 pm | 2019-12-20 @ 8:00 am | < 0.3 | 2019-12-24 |
| 9339746 | B113 | 2019-12-17 @ 3:00 pm | 2019-12-20 @ 8:00 am | < 0.3 | 2019-12-24 |
| 9339748 | B114 | 2019-12-17 @ 3:00 pm | 2019-12-20 @ 8:00 am | < 0.3 | 2019-12-24 |
| 9339754 | B115 | 2019-12-17 @ 3:00 pm | 2019-12-20 @ 8:00 am | < 0.3 | 2019-12-24 |
| 9339824 | BOYS PE OFFICE | 2019-12-17 @ 3:00 pm | 2019-12-20 @ 7:00 am | 0.6 ± 0.4 | 2019-12-24 |

Radon test result report for:
MAGRUDER HS
MAIN

| Kit # | Room Id | Started | Ended | pCi/L | Analyzed |
|---------|----------------------|----------------------|----------------------|-----------|------------|
| 9339889 | C116 | 2019-12-17 @ 2:00 pm | 2019-12-20 @ 7:00 am | 0.7 ± 0.4 | 2019-12-24 |
| 9339887 | C118 | 2019-12-17 @ 2:00 pm | 2019-12-20 @ 7:00 am | < 0.3 | 2019-12-24 |
| 9339885 | C119 | 2019-12-17 @ 2:00 pm | 2019-12-20 @ 7:00 am | < 0.3 | 2019-12-24 |
| 9339884 | C119 | 2019-12-17 @ 2:00 pm | 2019-12-20 @ 7:00 am | 0.5 ± 0.4 | 2019-12-24 |
| 9339886 | C119A | 2019-12-17 @ 2:00 pm | 2019-12-20 @ 7:00 am | < 0.3 | 2019-12-24 |
| 9339888 | C11I | 2019-12-17 @ 2:00 pm | 2019-12-20 @ 7:00 am | < 0.3 | 2019-12-24 |
| 9339882 | C120 | 2019-12-17 @ 2:00 pm | 2019-12-20 @ 7:00 am | 0.5 ± 0.4 | 2019-12-24 |
| 9339883 | C120 OFFICE | 2019-12-17 @ 2:00 pm | 2019-12-20 @ 7:00 am | < 0.3 | 2019-12-24 |
| 9339881 | C121 | 2019-12-17 @ 2:00 pm | 2019-12-20 @ 7:00 am | < 0.3 | 2019-12-24 |
| 9339880 | C122 | 2019-12-17 @ 2:00 pm | 2019-12-20 @ 7:00 am | 0.6 ± 0.4 | 2019-12-24 |
| 9339868 | C123 | 2019-12-17 @ 2:00 pm | 2019-12-20 @ 7:00 am | 0.6 ± 0.4 | 2019-12-24 |
| 9339892 | C124 | 2019-12-17 @ 2:00 pm | 2019-12-20 @ 7:00 am | < 0.3 | 2019-12-24 |
| 9339895 | C125 | 2019-12-17 @ 2:00 pm | 2019-12-20 @ 7:00 am | < 0.3 | 2019-12-24 |
| 9339894 | C125 OFFICE | 2019-12-17 @ 2:00 pm | 2019-12-20 @ 8:00 am | 0.6 ± 0.4 | 2019-12-24 |
| 9339876 | C126 | 2019-12-17 @ 2:00 pm | 2019-12-20 @ 7:00 am | < 0.3 | 2019-12-24 |
| 9339877 | C126 | 2019-12-17 @ 2:00 pm | 2019-12-20 @ 7:00 am | < 0.3 | 2019-12-24 |
| 9339809 | C126 OFFICE | 2019-12-17 @ 2:00 pm | 2019-12-20 @ 7:00 am | 0.6 ± 0.4 | 2019-12-24 |
| 9339752 | CAFETERIA | 2019-12-17 @ 3:00 pm | 2019-12-20 @ 8:00 am | 0.7 ± 0.4 | 2019-12-24 |
| 9339770 | CAFETERIA | 2019-12-17 @ 3:00 pm | 2019-12-20 @ 8:00 am | 0.6 ± 0.4 | 2019-12-24 |
| 9339729 | CAREER CENTER | 2019-12-17 @ 3:00 pm | 2019-12-20 @ 8:00 am | 0.5 ± 0.4 | 2019-12-24 |
| 9339879 | COACH/REFEREE OFFICE | 2019-12-17 @ 3:00 pm | 2019-12-20 @ 8:00 am | < 0.3 | 2019-12-24 |
| 9339722 | CONF2 | 2019-12-17 @ 3:00 pm | 2019-12-20 @ 7:00 am | < 0.3 | 2019-12-24 |
| 9339874 | D127 | 2019-12-17 @ 2:00 pm | 2019-12-20 @ 7:00 am | < 0.3 | 2019-12-24 |
| 9339873 | D128 | 2019-12-17 @ 2:00 pm | 2019-12-20 @ 7:00 am | < 0.3 | 2019-12-24 |
| 9339898 | D129 | 2019-12-17 @ 2:00 pm | 2019-12-20 @ 7:00 am | < 0.3 | 2019-12-24 |
| 9339893 | D131 | 2019-12-17 @ 2:00 pm | 2019-12-20 @ 7:00 am | < 0.3 | 2019-12-24 |
| 9339890 | D132 | 2019-12-17 @ 2:00 pm | 2019-12-20 @ 7:00 am | < 0.3 | 2019-12-24 |
| 9339891 | D134 | 2019-12-17 @ 2:00 pm | 2019-12-20 @ 7:00 am | < 0.3 | 2019-12-24 |
| 9339869 | D134 | 2019-12-17 @ 2:00 pm | 2019-12-20 @ 7:00 am | < 0.3 | 2019-12-24 |
| 9339870 | D134 | 2019-12-17 @ 2:00 pm | 2019-12-20 @ 7:00 am | < 0.3 | 2019-12-24 |
| 9339871 | D135 | 2019-12-17 @ 2:00 pm | 2019-12-20 @ 7:00 am | < 0.3 | 2019-12-24 |
| 9339872 | D136 | 2019-12-17 @ 2:00 pm | 2019-12-20 @ 7:00 am | < 0.3 | 2019-12-24 |
| 9339875 | D137 | 2019-12-17 @ 2:00 pm | 2019-12-20 @ 7:00 am | < 0.3 | 2019-12-24 |
| 9339743 | DRAMA OFFICE | 2019-12-17 @ 3:00 pm | 2019-12-20 @ 8:00 am | 1.3 ± 0.4 | 2019-12-24 |
| 9339756 | ESOL OFFICE | 2019-12-17 @ 3:00 pm | 2019-12-20 @ 8:00 am | < 0.3 | 2019-12-24 |
| 9339724 | FO1 | 2019-12-17 @ 3:00 pm | 2019-12-20 @ 8:00 am | < 0.3 | 2019-12-24 |
| 9339702 | FO2 | 2019-12-17 @ 3:00 pm | 2019-12-20 @ 8:00 am | < 0.3 | 2019-12-24 |

Radon test result report for:**MAGRUDER HS
MAIN**

| Kit # | Room Id | Started | Ended | pCi/L | Analyzed |
|---------|--------------------|----------------------|----------------------|-----------|------------|
| 9339730 | FO2 | 2019-12-17 @ 3:00 pm | 2019-12-20 @ 8:00 am | < 0.3 | 2019-12-24 |
| 9339703 | FO2 | 2019-12-17 @ 3:00 pm | 2019-12-20 @ 8:00 am | 0.8 ± 0.4 | 2019-12-24 |
| 9339792 | G7.5 | 2019-12-17 @ 3:00 pm | 2019-12-20 @ 8:00 am | < 0.3 | 2019-12-24 |
| 9339708 | GCONF | 2019-12-17 @ 3:00 pm | 2019-12-20 @ 8:00 am | 0.8 ± 0.4 | 2019-12-24 |
| 9339713 | GO1 | 2019-12-17 @ 3:00 pm | 2019-12-20 @ 8:00 am | 0.9 ± 0.4 | 2019-12-24 |
| 9339714 | GO2 | 2019-12-17 @ 3:00 pm | 2019-12-20 @ 8:00 am | 1.3 ± 0.4 | 2019-12-24 |
| 9339788 | GO3 | 2019-12-17 @ 3:00 pm | 2019-12-20 @ 8:00 am | 0.5 ± 0.3 | 2019-12-24 |
| 9339794 | GO4 | 2019-12-17 @ 3:00 pm | 2019-12-20 @ 8:00 am | 0.7 ± 0.4 | 2019-12-24 |
| 9339793 | GO4 | 2019-12-17 @ 3:00 pm | 2019-12-20 @ 8:00 am | 0.6 ± 0.4 | 2019-12-24 |
| 9339800 | GO5 | 2019-12-17 @ 3:00 pm | 2019-12-20 @ 8:00 am | 0.6 ± 0.4 | 2019-12-24 |
| 9339789 | GO6 | 2019-12-17 @ 3:00 pm | 2019-12-20 @ 8:00 am | 1.0 ± 0.4 | 2019-12-24 |
| 9339795 | GO7 | 2019-12-17 @ 3:00 pm | 2019-12-20 @ 8:00 am | < 0.3 | 2019-12-24 |
| 9339796 | GO8 | 2019-12-17 @ 3:00 pm | 2019-12-20 @ 8:00 am | < 0.3 | 2019-12-24 |
| 9339707 | GUIDANCE OFFICE | 2019-12-17 @ 3:00 pm | 2019-12-20 @ 8:00 am | 0.5 ± 0.4 | 2019-12-24 |
| 9339787 | GWR | 2019-12-17 @ 3:00 pm | 2019-12-20 @ 8:00 am | 0.6 ± 0.4 | 2019-12-24 |
| 9339758 | GYM1 | 2019-12-17 @ 3:00 pm | 2019-12-20 @ 7:00 am | 1.0 ± 0.4 | 2019-12-24 |
| 9339763 | GYM1 | 2019-12-17 @ 3:00 pm | 2019-12-20 @ 7:00 am | 1.0 ± 0.4 | 2019-12-24 |
| 9339759 | GYM1 | 2019-12-17 @ 3:00 pm | 2019-12-20 @ 7:00 am | 1.1 ± 0.4 | 2019-12-24 |
| 9339760 | GYM1 | 2019-12-17 @ 3:00 pm | 2019-12-20 @ 7:00 am | 0.6 ± 0.4 | 2019-12-24 |
| 9339762 | GYM1 OFFICE | 2019-12-17 @ 3:00 pm | 2019-12-20 @ 7:00 am | < 0.3 | 2019-12-24 |
| 9339767 | GYM1 OFFICE | 2019-12-17 @ 3:00 pm | 2019-12-20 @ 7:00 am | < 0.3 | 2019-12-24 |
| 9339878 | GYM2 | 2019-12-17 @ 2:00 pm | 2019-12-20 @ 7:00 am | < 0.3 | 2019-12-24 |
| 9339806 | GYM2 | 2019-12-17 @ 3:00 pm | 2019-12-20 @ 7:00 am | < 0.3 | 2019-12-24 |
| 9339804 | GYM2 | 2019-12-17 @ 2:00 pm | 2019-12-20 @ 7:00 am | < 0.3 | 2019-12-24 |
| 9339750 | HEALTH ROOM | 2019-12-17 @ 3:00 pm | 2019-12-20 @ 8:00 am | 0.5 ± 0.4 | 2019-12-24 |
| 9339731 | HEALTH ROOM OFFICE | 2019-12-17 @ 3:00 pm | 2019-12-20 @ 8:00 am | < 0.3 | 2019-12-24 |
| 9339751 | KITCHEN OFFICE | 2019-12-17 @ 3:00 pm | 2019-12-20 @ 8:00 am | < 0.3 | 2019-12-24 |
| 9339747 | KITCHEN OFFICE | 2019-12-17 @ 3:00 pm | 2019-12-20 @ 8:00 am | < 0.3 | 2019-12-24 |
| 9339753 | KITCHEN OFFICE | 2019-12-17 @ 3:00 pm | 2019-12-20 @ 8:00 am | < 0.3 | 2019-12-24 |
| 9339739 | MAIL ROOM | 2019-12-17 @ 3:00 pm | 2019-12-20 @ 7:00 am | < 0.3 | 2019-12-24 |
| 9339737 | MAIN OFFICE | 2019-12-17 @ 3:00 pm | 2019-12-20 @ 7:00 am | < 0.3 | 2019-12-24 |
| 9339778 | MC COPY ROOM | 2019-12-17 @ 3:00 pm | 2019-12-20 @ 9:00 am | 0.6 ± 0.4 | 2019-12-24 |
| 9339776 | MEDIA CENTER | 2019-12-17 @ 3:00 pm | 2019-12-20 @ 9:00 am | 0.5 ± 0.4 | 2019-12-24 |
| 9339777 | MEDIA CENTER WR | 2019-12-17 @ 3:00 pm | 2019-12-20 @ 9:00 am | < 0.3 | 2019-12-24 |
| 9339803 | PE OFFICE 2 | 2019-12-17 @ 3:00 pm | 2019-12-20 @ 7:00 am | 0.6 ± 0.4 | 2019-12-24 |
| 9339719 | PRINCIPAL OFFICE | 2019-12-17 @ 3:00 pm | 2019-12-20 @ 8:00 am | < 0.3 | 2019-12-24 |
| 9339711 | REGISTRAR | 2019-12-17 @ 3:00 pm | 2019-12-20 @ 8:00 am | < 0.3 | 2019-12-24 |

December 24, 2019

**** LABORATORY ANALYSIS REPORT ****

Radon test result report for:
MAGRUDER HS
MAIN

| Kit # | Room Id | Started | Ended | pCi/L | Analyzed |
|--------------|----------------|----------------------|----------------------|--------------|-----------------|
| 9339896 | S10 | 2019-12-17 @ 2:00 pm | 2019-12-20 @ 7:00 am | 0.7 ± 0.4 | 2019-12-24 |
| 9339721 | SECURITY | 2019-12-17 @ 3:00 pm | 2019-12-20 @ 8:00 am | 0.5 ± 0.4 | 2019-12-24 |
| 9339726 | STAFF LOUNGE | 2019-12-17 @ 3:00 pm | 2019-12-20 @ 8:00 am | < 0.3 | 2019-12-24 |
| 9339732 | STAFF LOUNGE | 2019-12-17 @ 3:00 pm | 2019-12-20 @ 8:00 am | < 0.3 | 2019-12-24 |
| 9339755 | STAFF LOUNGE | 2019-12-17 @ 3:00 pm | 2019-12-20 @ 8:00 am | < 0.3 | 2019-12-24 |
| 9339802 | WEIGHT ROOM | 2019-12-17 @ 3:00 pm | 2019-12-20 @ 7:00 am | < 0.3 | 2019-12-24 |
| 9339823 | WEIGHT ROOM | 2019-12-17 @ 3:00 pm | 2019-12-20 @ 7:00 am | < 0.3 | 2019-12-24 |
| 9339812 | WEIGHT ROOM | 2019-12-17 @ 3:00 pm | 2019-12-20 @ 7:00 am | 0.7 ± 0.4 | 2019-12-24 |
| 9339740 | WORK ROOM | 2019-12-17 @ 3:00 pm | 2019-12-20 @ 7:00 am | < 0.3 | 2019-12-24 |
| 9339799 | WORLD LANGUAGE | 2019-12-17 @ 3:00 pm | 2019-12-20 @ 9:00 am | < 0.3 | 2019-12-24 |

Air Chek 1936 Butler Bridge Rd, Mills River, NC 28759-3892 Phone: (828) 684-0893 Fax: (828) 684-8498

EXPOSURE IN BOWSER-MORNER RADON CHAMBER

CLIENT KCI Technologies Inc. Job Number 193598

NOMINAL Conditions: Radon Conc _____ pCi/L Rel. Hum _____ % Temp. _____ F

Temp °F 70.1
RH % 50.1
Avg pCi/L 25.4

Date Start: 12/21/19 Date Stop: 12/23/19

Time Start: 0815 Time Stop: 0815

(Group 1)
Device No.'s: (20) Char. Bags-

9340001 thru 9340020

55

Temp °F 70.1
RH % 50.1
Avg pCi/L 25.4

Date Start: 12/21/19 Date Stop: 12/23/19

Time Start: 0829 Time Stop: 0820

(Group 2)
Device No.'s: (20) Char. Bags-

9340021 thru 9340040

54

Temp °F 70.1
RH % 50.1
Avg pCi/L 25.4

Date Start: 12/21/19 Date Stop: 12/23/19

Time Start: 0825 Time Stop: 0825

(Group 3)
Device No.'s: (20) Char. Bags-

9340041 thru 9340060

53

Note: All times are in 24-hour (military) notation, Eastern Standard Time (EST)
Background = 7 μ R/h Elevation = 820 ft

Radon test result report for:

| |
|---|
| MCPS - Spike Sample Lab Results. Measured values are satisfactory, i.e., within $\pm 25\%$ of the chamber's reference value (25.7 pCi/L). |
|---|

| Kit # | Room Id | Started | Ended | pCi/L | Analyzed |
|---------|---------|----------------------|----------------------|------------------|------------|
| 9340067 | N/A | 2019-12-21 @ 9:00 am | 2019-12-23 @ 9:00 am | 25.1 \pm 2.4 D | 2020-01-03 |
| 9340035 | N/A | 2019-12-21 @ 8:00 am | 2019-12-23 @ 8:00 am | 22.5 \pm 2.3 D | 2020-01-03 |
| 9340003 | N/A | 2019-12-21 @ 8:00 am | 2019-12-23 @ 8:00 am | 25.2 \pm 2.4 D | 2020-01-03 |
| 9340089 | N/A | 2019-12-21 @ 9:00 am | 2019-12-23 @ 9:00 am | 23.3 \pm 2.3 D | 2020-01-03 |
| 9340072 | N/A | 2019-12-21 @ 9:00 am | 2019-12-23 @ 9:00 am | 18.3 \pm 2.0 D | 2020-01-03 |
| 9340040 | N/A | 2019-12-21 @ 8:00 am | 2019-12-23 @ 8:00 am | 27.3 \pm 2.6 D | 2020-01-03 |
| 9340008 | N/A | 2019-12-21 @ 8:00 am | 2019-12-23 @ 8:00 am | 24.8 \pm 2.5 D | 2020-01-03 |
| 9340094 | N/A | 2019-12-21 @ 9:00 am | 2019-12-23 @ 9:00 am | 24.7 \pm 2.5 D | 2020-01-03 |
| 9340099 | N/A | 2019-12-21 @ 9:00 am | 2019-12-23 @ 9:00 am | 27.5 \pm 2.6 D | 2020-01-03 |
| 9340077 | N/A | 2019-12-21 @ 9:00 am | 2019-12-23 @ 9:00 am | 25.2 \pm 2.5 D | 2020-01-03 |
| 9340045 | N/A | 2019-12-21 @ 8:00 am | 2019-12-23 @ 8:00 am | 24.7 \pm 2.4 D | 2020-01-03 |
| 9340013 | N/A | 2019-12-21 @ 8:00 am | 2019-12-23 @ 8:00 am | 25.9 \pm 2.6 D | 2020-01-03 |
| 9340018 | N/A | 2019-12-21 @ 8:00 am | 2019-12-23 @ 8:00 am | 29.1 \pm 2.8 D | 2020-01-03 |
| 9341704 | N/A | 2019-12-21 @ 9:00 am | 2019-12-23 @ 9:00 am | 25.1 \pm 2.4 D | 2020-01-03 |
| 9340050 | N/A | 2019-12-21 @ 8:00 am | 2019-12-23 @ 8:00 am | 27.2 \pm 2.6 D | 2020-01-03 |
| 9340023 | N/A | 2019-12-21 @ 8:00 am | 2019-12-23 @ 8:00 am | 28.2 \pm 2.7 D | 2020-01-03 |
| 9341709 | N/A | 2019-12-21 @ 9:00 am | 2019-12-23 @ 9:00 am | 25.5 \pm 2.4 D | 2020-01-03 |
| 9340055 | N/A | 2019-12-21 @ 8:00 am | 2019-12-23 @ 8:00 am | 27.8 \pm 2.6 D | 2020-01-03 |
| 9340060 | N/A | 2019-12-21 @ 8:00 am | 2019-12-23 @ 8:00 am | 27.3 \pm 2.5 D | 2020-01-03 |
| 9340028 | N/A | 2019-12-21 @ 8:00 am | 2019-12-23 @ 8:00 am | 23.9 \pm 2.3 D | 2020-01-03 |
| 9341714 | N/A | 2019-12-21 @ 9:00 am | 2019-12-23 @ 9:00 am | 28.3 \pm 2.7 D | 2020-01-03 |
| 9340082 | N/A | 2019-12-21 @ 9:00 am | 2019-12-23 @ 9:00 am | 26.4 \pm 2.6 D | 2020-01-03 |
| 9340065 | N/A | 2019-12-21 @ 9:00 am | 2019-12-23 @ 9:00 am | 24.2 \pm 2.4 D | 2020-01-03 |
| 9340033 | N/A | 2019-12-21 @ 8:00 am | 2019-12-23 @ 8:00 am | 26.2 \pm 2.5 D | 2020-01-03 |
| 9341719 | N/A | 2019-12-21 @ 9:00 am | 2019-12-23 @ 9:00 am | 26.7 \pm 2.5 D | 2020-01-03 |
| 9340001 | N/A | 2019-12-21 @ 8:00 am | 2019-12-23 @ 8:00 am | 26.3 \pm 2.5 D | 2020-01-03 |
| 9340087 | N/A | 2019-12-21 @ 9:00 am | 2019-12-23 @ 9:00 am | 24.8 \pm 2.4 D | 2020-01-03 |
| 9340070 | N/A | 2019-12-21 @ 9:00 am | 2019-12-23 @ 9:00 am | 19.5 \pm 2.4 D | 2020-01-03 |
| 9340038 | N/A | 2019-12-21 @ 8:00 am | 2019-12-23 @ 8:00 am | 24.7 \pm 2.3 D | 2020-01-03 |
| 9340006 | N/A | 2019-12-21 @ 8:00 am | 2019-12-23 @ 8:00 am | 25.2 \pm 2.4 D | 2020-01-03 |
| 9340092 | N/A | 2019-12-21 @ 9:00 am | 2019-12-23 @ 9:00 am | 31.4 \pm 2.8 D | 2020-01-03 |
| 9340097 | N/A | 2019-12-21 @ 9:00 am | 2019-12-23 @ 9:00 am | 26.7 \pm 2.5 D | 2020-01-03 |
| 9340075 | N/A | 2019-12-21 @ 9:00 am | 2019-12-23 @ 9:00 am | 29.6 \pm 2.6 D | 2020-01-03 |
| 9340043 | N/A | 2019-12-21 @ 8:00 am | 2019-12-23 @ 8:00 am | 28.1 \pm 2.6 D | 2020-01-03 |
| 9340011 | N/A | 2019-12-21 @ 8:00 am | 2019-12-23 @ 8:00 am | 26.8 \pm 2.5 D | 2020-01-03 |
| 9340016 | N/A | 2019-12-21 @ 8:00 am | 2019-12-23 @ 8:00 am | 23.2 \pm 2.4 D | 2020-01-03 |
| 9341702 | N/A | 2019-12-21 @ 9:00 am | 2019-12-23 @ 9:00 am | 26.8 \pm 2.5 D | 2020-01-03 |

Radon test result report for:**S****N/A**

| Kit # | Room Id | Started | Ended | pCi/L | Analyzed |
|--------------|----------------|----------------------|----------------------|--------------|-----------------|
| 9340048 | N/A | 2019-12-21 @ 8:00 am | 2019-12-23 @ 8:00 am | 25.5 ± 2.4 D | 2020-01-03 |
| 9340021 | N/A | 2019-12-21 @ 8:00 am | 2019-12-23 @ 8:00 am | 26.7 ± 2.6 D | 2020-01-03 |
| 9341707 | N/A | 2019-12-21 @ 9:00 am | 2019-12-23 @ 9:00 am | 25.8 ± 2.4 D | 2020-01-03 |
| 9340053 | N/A | 2019-12-21 @ 8:00 am | 2019-12-23 @ 8:00 am | 25.8 ± 2.5 D | 2020-01-03 |
| 9340058 | N/A | 2019-12-21 @ 8:00 am | 2019-12-23 @ 8:00 am | 28.5 ± 2.7 D | 2020-01-03 |
| 9340026 | N/A | 2019-12-21 @ 8:00 am | 2019-12-23 @ 8:00 am | 25.9 ± 2.4 D | 2020-01-03 |
| 9341712 | N/A | 2019-12-21 @ 9:00 am | 2019-12-23 @ 9:00 am | 24.3 ± 2.4 D | 2020-01-03 |
| 9340080 | N/A | 2019-12-21 @ 9:00 am | 2019-12-23 @ 9:00 am | 25.1 ± 2.4 D | 2020-01-03 |
| 9340063 | N/A | 2019-12-21 @ 9:00 am | 2019-12-23 @ 9:00 am | 25.8 ± 2.5 D | 2020-01-03 |
| 9340031 | N/A | 2019-12-21 @ 8:00 am | 2019-12-23 @ 8:00 am | 24.9 ± 2.4 D | 2020-01-03 |
| 9341717 | N/A | 2019-12-21 @ 9:00 am | 2019-12-23 @ 9:00 am | 25.7 ± 2.4 D | 2020-01-03 |
| 9340085 | N/A | 2019-12-21 @ 9:00 am | 2019-12-23 @ 9:00 am | 26.9 ± 2.5 D | 2020-01-03 |
| 9340068 | N/A | 2019-12-21 @ 9:00 am | 2019-12-23 @ 9:00 am | 26.2 ± 2.5 D | 2020-01-03 |
| 9340036 | N/A | 2019-12-21 @ 8:00 am | 2019-12-23 @ 8:00 am | 23.6 ± 2.3 D | 2020-01-03 |
| 9340004 | N/A | 2019-12-21 @ 8:00 am | 2019-12-23 @ 8:00 am | 26.9 ± 2.6 D | 2020-01-03 |
| 9340090 | N/A | 2019-12-21 @ 9:00 am | 2019-12-23 @ 9:00 am | 26.3 ± 2.5 D | 2020-01-03 |
| 9340073 | N/A | 2019-12-21 @ 9:00 am | 2019-12-23 @ 9:00 am | 26.8 ± 2.5 D | 2020-01-03 |
| 9340041 | N/A | 2019-12-21 @ 8:00 am | 2019-12-23 @ 8:00 am | 25.6 ± 2.4 D | 2020-01-03 |
| 9340009 | N/A | 2019-12-21 @ 8:00 am | 2019-12-23 @ 8:00 am | 24.1 ± 2.4 D | 2020-01-03 |
| 9340095 | N/A | 2019-12-21 @ 9:00 am | 2019-12-23 @ 9:00 am | 25.2 ± 2.5 D | 2020-01-03 |
| 9340100 | N/A | 2019-12-21 @ 9:00 am | 2019-12-23 @ 9:00 am | 24.5 ± 2.4 D | 2020-01-03 |
| 9340078 | N/A | 2019-12-21 @ 9:00 am | 2019-12-23 @ 9:00 am | 25.0 ± 2.4 D | 2020-01-03 |
| 9340046 | N/A | 2019-12-21 @ 8:00 am | 2019-12-23 @ 8:00 am | 28.0 ± 2.6 D | 2020-01-03 |
| 9340014 | N/A | 2019-12-21 @ 8:00 am | 2019-12-23 @ 8:00 am | 21.8 ± 2.8 D | 2020-01-03 |
| 9340019 | N/A | 2019-12-21 @ 8:00 am | 2019-12-23 @ 8:00 am | 26.0 ± 2.5 D | 2020-01-03 |
| 9341705 | N/A | 2019-12-21 @ 9:00 am | 2019-12-23 @ 9:00 am | 27.8 ± 2.6 D | 2020-01-03 |
| 9340051 | N/A | 2019-12-21 @ 8:00 am | 2019-12-23 @ 8:00 am | 25.5 ± 2.4 D | 2020-01-03 |
| 9340056 | N/A | 2019-12-21 @ 8:00 am | 2019-12-23 @ 8:00 am | 27.7 ± 2.6 D | 2020-01-03 |
| 9340024 | N/A | 2019-12-21 @ 8:00 am | 2019-12-23 @ 8:00 am | 28.3 ± 2.5 D | 2020-01-03 |
| 9341710 | N/A | 2019-12-21 @ 9:00 am | 2019-12-23 @ 9:00 am | 24.2 ± 2.3 D | 2020-01-03 |
| 9340061 | N/A | 2019-12-21 @ 9:00 am | 2019-12-23 @ 9:00 am | 28.9 ± 2.6 D | 2020-01-03 |
| 9340029 | N/A | 2019-12-21 @ 8:00 am | 2019-12-23 @ 8:00 am | 23.0 ± 2.3 D | 2020-01-03 |
| 9341715 | N/A | 2019-12-21 @ 9:00 am | 2019-12-23 @ 9:00 am | 27.0 ± 2.5 D | 2020-01-03 |
| 9340083 | N/A | 2019-12-21 @ 9:00 am | 2019-12-23 @ 9:00 am | 24.9 ± 2.4 D | 2020-01-03 |
| 9340066 | N/A | 2019-12-21 @ 9:00 am | 2019-12-23 @ 9:00 am | 25.1 ± 2.4 D | 2020-01-03 |
| 9340034 | N/A | 2019-12-21 @ 8:00 am | 2019-12-23 @ 8:00 am | 26.4 ± 2.5 D | 2020-01-03 |
| 9341720 | N/A | 2019-12-21 @ 9:00 am | 2019-12-23 @ 9:00 am | 25.3 ± 2.5 D | 2020-01-03 |

Radon test result report for:**S****N/A**

| Kit # | Room Id | Started | Ended | pCi/L | Analyzed |
|---------|---------|----------------------|----------------------|--------------|------------|
| 9340002 | N/A | 2019-12-21 @ 8:00 am | 2019-12-23 @ 8:00 am | 25.7 ± 2.5 D | 2020-01-03 |
| 9340088 | N/A | 2019-12-21 @ 9:00 am | 2019-12-23 @ 9:00 am | 26.4 ± 2.5 D | 2020-01-03 |
| 9340071 | N/A | 2019-12-21 @ 9:00 am | 2019-12-23 @ 9:00 am | 24.9 ± 2.4 D | 2020-01-03 |
| 9340039 | N/A | 2019-12-21 @ 8:00 am | 2019-12-23 @ 8:00 am | 26.9 ± 2.5 D | 2020-01-03 |
| 9340007 | N/A | 2019-12-21 @ 8:00 am | 2019-12-23 @ 8:00 am | 26.9 ± 2.4 D | 2020-01-03 |
| 9340093 | N/A | 2019-12-21 @ 9:00 am | 2019-12-23 @ 9:00 am | 25.1 ± 2.5 D | 2020-01-03 |
| 9340098 | N/A | 2019-12-21 @ 9:00 am | 2019-12-23 @ 9:00 am | 26.8 ± 2.5 D | 2020-01-03 |
| 9340076 | N/A | 2019-12-21 @ 9:00 am | 2019-12-23 @ 9:00 am | 25.1 ± 2.5 D | 2020-01-03 |
| 9340044 | N/A | 2019-12-21 @ 8:00 am | 2019-12-23 @ 8:00 am | 25.2 ± 2.5 D | 2020-01-03 |
| 9340012 | N/A | 2019-12-21 @ 8:00 am | 2019-12-23 @ 8:00 am | 22.5 ± 2.2 D | 2020-01-03 |
| 9340017 | N/A | 2019-12-21 @ 8:00 am | 2019-12-23 @ 8:00 am | 25.3 ± 2.5 D | 2020-01-03 |
| 9341703 | N/A | 2019-12-21 @ 9:00 am | 2019-12-23 @ 9:00 am | 26.0 ± 2.5 D | 2020-01-03 |
| 9340049 | N/A | 2019-12-21 @ 8:00 am | 2019-12-23 @ 8:00 am | 26.0 ± 2.5 D | 2020-01-03 |
| 9340022 | N/A | 2019-12-21 @ 8:00 am | 2019-12-23 @ 8:00 am | 28.6 ± 2.6 D | 2020-01-03 |
| 9341708 | N/A | 2019-12-21 @ 9:00 am | 2019-12-23 @ 9:00 am | 28.8 ± 2.8 D | 2020-01-03 |
| 9340054 | N/A | 2019-12-21 @ 8:00 am | 2019-12-23 @ 8:00 am | 26.8 ± 2.5 D | 2020-01-03 |
| 9340059 | N/A | 2019-12-21 @ 8:00 am | 2019-12-23 @ 8:00 am | 26.5 ± 2.6 D | 2020-01-03 |
| 9340027 | N/A | 2019-12-21 @ 8:00 am | 2019-12-23 @ 8:00 am | 26.6 ± 2.5 D | 2020-01-03 |
| 9341713 | N/A | 2019-12-21 @ 9:00 am | 2019-12-23 @ 9:00 am | 26.5 ± 2.5 D | 2020-01-03 |
| 9340081 | N/A | 2019-12-21 @ 9:00 am | 2019-12-23 @ 9:00 am | 18.4 ± 2.1 D | 2020-01-03 |
| 9340064 | N/A | 2019-12-21 @ 9:00 am | 2019-12-23 @ 9:00 am | 26.5 ± 2.5 D | 2020-01-03 |
| 9340032 | N/A | 2019-12-21 @ 8:00 am | 2019-12-23 @ 8:00 am | 26.1 ± 2.4 D | 2020-01-03 |
| 9341718 | N/A | 2019-12-21 @ 9:00 am | 2019-12-23 @ 9:00 am | 23.7 ± 2.4 D | 2020-01-03 |
| 9340086 | N/A | 2019-12-21 @ 9:00 am | 2019-12-23 @ 9:00 am | 26.9 ± 2.6 D | 2020-01-03 |
| 9340069 | N/A | 2019-12-21 @ 9:00 am | 2019-12-23 @ 9:00 am | 25.6 ± 2.5 D | 2020-01-03 |
| 9340037 | N/A | 2019-12-21 @ 8:00 am | 2019-12-23 @ 8:00 am | 28.4 ± 2.6 D | 2020-01-03 |
| 9340005 | N/A | 2019-12-21 @ 8:00 am | 2019-12-23 @ 8:00 am | ???? DIF1 | 2020-01-03 |
| 9340091 | N/A | 2019-12-21 @ 9:00 am | 2019-12-23 @ 9:00 am | 26.5 ± 2.5 D | 2020-01-03 |
| 9340096 | N/A | 2019-12-21 @ 9:00 am | 2019-12-23 @ 9:00 am | 26.2 ± 2.5 D | 2020-01-03 |
| 9340074 | N/A | 2019-12-21 @ 9:00 am | 2019-12-23 @ 9:00 am | 27.7 ± 2.5 D | 2020-01-03 |
| 9340042 | N/A | 2019-12-21 @ 8:00 am | 2019-12-23 @ 8:00 am | 26.6 ± 2.5 D | 2020-01-03 |
| 9340010 | N/A | 2019-12-21 @ 8:00 am | 2019-12-23 @ 8:00 am | 27.5 ± 2.5 D | 2020-01-03 |
| 9341701 | N/A | 2019-12-21 @ 9:00 am | 2019-12-23 @ 9:00 am | 22.9 ± 2.3 D | 2020-01-03 |
| 9340047 | N/A | 2019-12-21 @ 8:00 am | 2019-12-23 @ 8:00 am | 26.7 ± 2.5 D | 2020-01-03 |
| 9340015 | N/A | 2019-12-21 @ 8:00 am | 2019-12-23 @ 8:00 am | 25.4 ± 2.5 D | 2020-01-03 |
| 9340020 | N/A | 2019-12-21 @ 8:00 am | 2019-12-23 @ 8:00 am | 24.1 ± 2.4 D | 2020-01-03 |
| 9341706 | N/A | 2019-12-21 @ 9:00 am | 2019-12-23 @ 9:00 am | 31.0 ± 2.7 D | 2020-01-03 |

January 3, 2020

**** LABORATORY ANALYSIS REPORT ****

Radon test result report for:

S

N/A

| Kit # | Room Id | Started | Ended | pCi/L | Analyzed |
|--------------|----------------|----------------------|----------------------|--------------|-----------------|
| 9340052 | N/A | 2019-12-21 @ 8:00 am | 2019-12-23 @ 8:00 am | 27.4 ± 2.6 D | 2020-01-03 |
| 9340057 | N/A | 2019-12-21 @ 8:00 am | 2019-12-23 @ 8:00 am | 27.3 ± 2.5 D | 2020-01-03 |
| 9340025 | N/A | 2019-12-21 @ 8:00 am | 2019-12-23 @ 8:00 am | 25.1 ± 2.4 D | 2020-01-03 |
| 9341711 | N/A | 2019-12-21 @ 9:00 am | 2019-12-23 @ 9:00 am | 22.5 ± 2.2 D | 2020-01-03 |
| 9340079 | N/A | 2019-12-21 @ 9:00 am | 2019-12-23 @ 9:00 am | 26.9 ± 2.5 D | 2020-01-03 |
| 9340062 | N/A | 2019-12-21 @ 9:00 am | 2019-12-23 @ 9:00 am | 25.6 ± 2.5 D | 2020-01-03 |
| 9340030 | N/A | 2019-12-21 @ 8:00 am | 2019-12-23 @ 8:00 am | 25.0 ± 2.4 D | 2020-01-03 |
| 9341716 | N/A | 2019-12-21 @ 9:00 am | 2019-12-23 @ 9:00 am | 25.1 ± 2.4 D | 2020-01-03 |
| 9340084 | N/A | 2019-12-21 @ 9:00 am | 2019-12-23 @ 9:00 am | 24.5 ± 2.3 D | 2020-01-03 |

Air Chek 1936 Butler Bridge Rd, Mills River, NC 28759-3892 Phone: (828) 684-0893 Fax: (828) 684-8498



Radon Test Kit Chain of Custody

Project Name: MCPS Radon 2019 Week 2

Name of Schools:

- | | |
|-------------------------------|---------------------|
| 1. Argyle M.S. | 13. Candelwood E.S. |
| 2. Banneker M.S. | 14. Drew E.S. |
| 3. Bel Pre E.S. | 15. Fallsmead E.S. |
| 4. Bells Mill E.S. | 16. Farquhar M.S. |
| 5. Bethesda Maintenance Depot | 17. Kennedy H.S. |
| 6. Beverly Farms E.S. | 18. Luxmanor E.S. |
| 7. Blake H.S. | 19. Magruder H.S. |
| 8. Dufief E.S. | 20. Redland M.S. |
| 9. Briggs Chaney M.S. | 21. Shriver E.S. |
| 10. Brookhaven E.S. | 22. Smith Center |
| 11. Burtonsville E.S. | 23. Viers Mill E.S. |
| 12. Cabin John M.S. | 24. Wheaton H.S. |

| | Date | Initials |
|----------------------------------|-------------------------|----------|
| Radon Test Kits Deployed | 12/16/19 to 12/17/19 | |
| Radon Test Kits Collected | 12/19/19 to 12/20/19 | |
| Radon Test Kits Shipped to Lab* | 12/20/19 | |
| Radon Test Kits Received by Lab* | 12/23/19 | |

*All samples sent to Air Check, Inc., 1936 Butler Bridge Rd, Mills River, NC 28759



MONTGOMERY COUNTY PUBLIC SCHOOLS RADON TESTING

Executive Summary:
Magruder High School
5939 Muncaster Mill Road
Derwood, MD 20855

| | |
|------------------------------|---|
| Date of Test Report: | 3/15/2019 |
| Round of Testing: | Initial Follow-up Post Remediation 2 Year Testing 5 Year Testing HVAC Upgrade Window Replacement New Addition New Facility |
| # of Rooms Tested: | 2 |
| # of Rooms \geq 4.0 pCi/L: | 0 |
| Low Value: | <0.4 |
| High Value: | 1.3 |

Project Status

Retesting completed: No further action at this time.



March 15, 2019

Mr. Richard Cox
Indoor Air Quality Team Leader
Montgomery County Public Schools
850 Hungerford Drive
Rockville, MD 20850

Re: Radon Testing Services

Location: Magruder High School
5939 Muncaster Mill Road
Derwood, MD 20855

Dear Mr. Cox:

Intertek-PSI (PSI) is pleased to submit the following report to the Montgomery County Public Schools (MCPS) for completion of a "short-term" 3-day radon test for Magruder High School, located at 5939 Muncaster Mill Road, Derwood, MD 20855 (subject site).

Scope of Services:

PSI conducted radon testing at the subject site to evaluate indoor radon levels relative to the USEPA's recommended action level of 4.0 picocuries per Liter (pCi/L) - the level at which EPA recommends that schools take action to reduce the level. PSI conducted the radon testing in accordance with American Association of Radon Scientists and Technologists (AARST) Protocol for Conducting Measurements of Radon and Radon Decay Products in Schools and Large Buildings. A National Radon Safety Board (NRSB) Radon Measurement Specialist (certification #14SS007) supervised the testing. Additional information on radon management and the health effects of radon exposure is available from www.montgomerycountymd.gov/dep/air/radon or www.epa.gov/radon.

PSI visited the site on February 26, 2019 and deployed two (2) activated charcoal (AC) radon test kit. PSI deployed radon test kits in frequently-occupied ground contact rooms, and other areas, (if applicable) in accordance with AARST guidance. PSI returned to the site on March 01, 2019 to retrieve the radon sampling test kit. A floor plan map of the building with the test location is included as Attachment A of this report.

PSI shipped all radon tests via overnight delivery to AccuStar Labs for analysis by gamma-ray spectroscopy. Accustar Labs is a NRSB certified analytical laboratory for radon analysis located at 929 Mount Zion Road, Lebanon, Pennsylvania (certification # ARLO007).

Evaluation of Testing Conditions:

The operating condition that represents the greatest amount of significantly occupied time for this building is; heating active, with outdoor temperature averages $\leq 65^{\circ}\text{F}$.

PSI concludes that the test period reasonably represents normal conditions when the building is significantly occupied. Clear characterization of the radon hazard is most likely to be observed under this normal operating condition. Based on the evaluation of test conditions, this test should reasonably characterize radon hazards.



PSI also conducted observations of field conditions which could affect the results of the test and compiled weather data for the testing period. PSI recorded observations of the following conditions in each room at the time of deployment and collection of the radon test kits:

- Indoor temperature,
- HVAC Operation,
- Dehumidifier operation,
- Humidifier operation,
- Ceiling fan operation, and
- Open windows or doors.

Results:

The results of the radon test analysis indicated the following:

| Radon Concentration | Room | Result |
|---------------------|------------------|--------|
| ≥ 4.0 pCi/L | None | NA |
| ≤ 4.0 pCi/L | See Attachment B | |

Notes:
D -Duplicate Sample

The office blank and lab transit blanks had test results of less than the laboratory detection limit of 0.4 pCi/L. Review of the duplicate sample analysis indicates that adequate laboratory measurement precision was achieved. The Spike sample analysis results indicate the laboratory is operating within statistical control limits.

The sampling locations, field observations, and analytical results are listed on Table 1 (Attachment B). The laboratory analytical results are also attached (Attachment C).

Laboratory results and exposure data for the spike samples are also included in Attachment C. Our professional services have been performed in accordance with customary principles and practices in the field of industrial hygiene and engineering. If you have any questions or comments regarding this report, please feel free to contact me at (703) 698-9300.

ATTACHMENT B

Radon Test Summary Spreadsheet

| Radon Testing Results | | |
|--|------------------------|-----------------------|
| Magruder High School | | |
| Testing period: 2/26/19 - 3/01/19 | | |
| Kit Number | Room / Area | Result (pCi/L) |
| 3923410 | Assistant Principial 3 | <0.4 |
| 3923420 | Boys dressing room | 1.3 |

Table Notes:

D – Duplicate

FB – Field Blank

OB – Office Blank

TB – Transit Blank

QC – Quality Control

ATTACHMENT C

Laboratory Analytical Results

NRPP 105011 AL
NRSB ARL0007

EPA Method #402-R-92-004
Charcoal Canister
NRPP Device Code 6048
NRSB Device Code 10317

Laboratory Report for:

Property Tested: Project # 04481387-1

Intertek-PSI (VA)
2930 Eskridge Road
Fairfax VA 22031

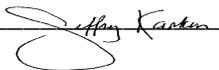
MCPS Radon Survey Magruder HS
5939 Muncaster Mill Road
Derwood MD 20855

| Log Number | Device Number | Test Date | Exposure Duration | Area Tested | Result pCi/L |
|------------|---------------|------------|------------------------------|--|--------------|
| 3220811 | 3923410 | 02/26/2019 | 6:44 am - 03/01/2019 6:44 am | Floor First Level Room Assistant Principal 3 | < 0.4 |
| 3220812 | 3923420 | 02/26/2019 | 6:50 am - 03/01/2019 6:50 am | Floor First Level Boys Dressing Room | 1.3 |

Comment: A copy of this report was e-mailed to Intertek-PSI (VA)

Distributed by: Intertek-PSI (VA)

Date Received: 03/05/2019 Date Logged: 03/05/2019 Date Analyzed: 03/05/2019 Date Reported: 03/06/2019

Report Reviewed By: 

Report Approved By: 

Disclaimer:

The uncertainty of this radon measurement is +/- 10 %. Factors contributing to uncertainty include statistical variations, daily and seasonal variations in radon concentrations, sample collection techniques and operation of the dwelling. Interference with test conditions may influence the test results.

Shawn Price, Director of Laboratory Operations, AccuStar Labs

This report may only be transferred to a third party in its entirety. Analytical results relate to the samples AS RECEIVED BY THE LABORATORY. Results shown on this report represent levels of radon gas measured between the dates shown in the room or area of the site identified above as "Property Tested". Incorrect information will affect results. The results may not be construed as either predictive or supportive of measurements conducted in any area of this structure at any other time. AccuStar Labs, its employees and agents are not responsible for the consequences of any action taken or not taken based upon the results reported or any verbal or written interpretation of the results.

ATTACHMENT B

Radon Test Summary Spreadsheet



MONTGOMERY COUNTY PUBLIC SCHOOLS RADON TESTING

Executive Summary:
Magruder High School
5939 Muncaster Mill Road
Derwood, MD 20855

| | |
|------------------------------|---|
| Date of Test Report: | 01/15/2019 |
| Round of Testing: | Initial Follow-up Post Remediation 2 Year Testing 5 Year Testing HVAC Upgrade Window Replacement New Addition New Facility |
| # of Rooms Tested: | 121 |
| # of Rooms \geq 4.0 pCi/L: | 0 |
| Low Value: | < 0.4 |
| High Value: | 1.1 |

Project Status

Initial testing complete: Missing or compromised samples need re-test.



January 15, 2019

Mr. Richard Cox
Indoor Air Quality Team Leader
Montgomery County Public Schools
850 Hungerford Drive
Rockville, MD 20850

Re: Radon Testing Services

Location: Magruder High School
5939 Muncaster Mill Road
Derwood, MD 20855

Dear Mr. Cox:

Intertek-PSI (PSI) is pleased to submit the following report to the Montgomery County Public Schools (MCPS) for completion of a “short-term” 3-day radon test for Magruder High School, located at 5939 Muncaster Mill Road, Derwood, MD 20855 (subject site).

Scope of Services:

PSI conducted radon testing at the subject site to evaluate indoor radon levels relative to the USEPA's recommended action level of 4.0 picocuries per Liter (pCi/L) - the level at which EPA recommends that schools take action to reduce the level. PSI conducted the radon testing in accordance with American Association of Radon Scientists and Technologists (AARST) Protocol for Conducting Measurements of Radon and Radon Decay Products in Schools and Large Buildings. A National Radon Safety Board (NRSB) Radon Measurement Specialist (certification #14SS007) supervised the testing. Additional information on radon management and the health effects of radon exposure is available from www.montgomerycountymd.gov/dep/air/radon or www.epa.gov/radon.

PSI visited the site on December 04, 2018 and deployed one hundred-forty-two (142) activated charcoal (AC) radon test kits. PSI deployed radon test kits in frequently-occupied ground contact rooms, and other areas, (if applicable) in accordance with AARST guidance. PSI returned to the site on December 07, 2018 to retrieve the radon sampling test kits. A floor plan map of the building with the test locations is included as Attachment A of this report.

As a quality control measure, PSI included duplicate samples, field blanks, lab transit blanks, and office blanks in accordance with AARST recommendations. In addition, PSI submitted ten (10) test kits to Bowser-Morner Inc. as spike samples. The spiked tests were exposed to a known radon concentration by Bowser-Morner Inc. prior to being returned to the laboratory for analysis.

PSI shipped all radon tests via overnight delivery to AccuStar Labs for analysis by gamma-ray spectroscopy. Accustar Labs is a NRSB certified analytical laboratory for radon analysis located at 929 Mount Zion Road, Lebanon, Pennsylvania (certification # ARL0007) and 2 Saber Way, Haverhill, Massachusetts (certification # ARL0017).



Evaluation of Testing Conditions:

The operating condition that represents the greatest amount of significantly occupied time for this building is; heating active, with outdoor temperature averages $\leq 65^{\circ}\text{F}$.

PSI concludes that the test period reasonably represents normal conditions when the building is significantly occupied. Clear characterization of the radon hazard is most likely to be observed under this normal operating condition. Based on the evaluation of test conditions, this test should reasonably characterize radon hazards.

PSI also conducted observations of field conditions which could affect the results of the test and compiled weather data for the testing period. PSI recorded observations of the following conditions in each room at the time of deployment and collection of the radon test kits:

- Indoor temperature,
- HVAC Operation,
- Dehumidifier operation,
- Humidifier operation,
- Ceiling fan operation, and
- Open windows or doors.

Results:

The results of the radon test analysis indicated the following:

| Radon Concentration | Room | Result |
|----------------------------|------------------|---------------|
| ≥ 4.0 pCi/L | None | NA |
| ≤ 4.0 pCi/L | See Attachment B | |

Notes:

D -Duplicate Sample

The office blank and lab transit blanks had test results of less than the laboratory detection limit of 0.4 pCi/L. Review of the duplicate sample analysis indicates that adequate laboratory measurement precision was achieved. The Spike sample analysis results indicate the laboratory is operating within statistical control limits.

The sampling locations, field observations, and analytical results are listed on Table 1 (Attachment B). The laboratory analytical results are also attached (Attachment C).

Laboratory results and exposure data for the spike samples are also included in Attachment C. Our professional services have been performed in accordance with customary principles and practices in the field of industrial hygiene and engineering. If you have any questions or comments regarding this report, please feel free to contact me at (703) 698-9300.



Respectfully Submitted,

INTERTEK-PSI

A handwritten signature in black ink that reads "Nand Kaushik". The signature is written in a cursive, flowing style.

Nand Kaushik, P.E.
Department Manager, Environmental Services
Nand.Kaushik@intertek.com

Attachments: A – Floor Plan with Test Locations
 B – Table 1 – Radon Test Summary Spreadsheet
 C – Laboratory Analytical Results

Radon Testing Results**Magruder Highschool****Testing period: 12/04/18 - 12/07/18**

| Kit Number | Room / Area | Result (pCi/L) |
|-------------------|------------------------------------|-----------------------|
| 3928222 | A100 | 1.1 |
| 3928223 | A100 Office | 1.0 |
| 3926191 | A101 | 0.7 |
| 3928286 | A102 | 0.5 |
| 3928287 | A102 Office | <0.4 |
| 3928288 | A103 | <0.4 |
| 3928221 | A103 Dark room | <0.4 |
| 3928290 | A103 Office | <0.4 |
| 3928240 | A104 | 0.7 |
| 3928281 | A104 Office | <0.4 |
| 3926086 | A107 | <0.4 |
| 3926082 | A108 | <0.4 |
| 3926083 | A108 Office 1 | <0.4 |
| 3926084 | A108 Office 2 | 0.5 |
| 3926170 | A109 | 0.7 |
| 3926087 | A203 | <0.4 |
| 3926089 | A216 | <0.4 |
| 3926088 | A217 | <0.4 |
| 3928255 | Administration Office | <0.4 |
| 3928301 | Assistant Principal- AP1 | <0.4 |
| 3928302 | Assistant Principal- AP2 | <0.4 |
| 3928308 | Assistant Principal- AP3 (MISSING) | -- |
| 3926197 | Athletic Director | <0.4 |
| 3928236 | Athletic Training | <0.4 |
| 3928224 | AUD Drama office | 0.7 |
| 3928228 | AUD Ladies Dressing Room | 0.6 |
| 3928226 | AUD Makeup Rm | <0.4 |
| 3928225 | AUD Stage | <0.4 |
| 3926081 | AUX Gym | 0.4 |
| 3928256 | B110 | <0.4 |
| 3928233 | B111 | <0.4 |
| 3928235 | B112 | <0.4 |
| 3928278 | B113 | <0.4 |
| 3928279 | B114 | <0.4 |
| 3928321 | B115 | <0.4 |
| 3926112 | B221 | <0.4 |
| 3926114 | B228 | <0.4 |
| 3926113 | B229 | <0.4 |
| 3926115 | B232 | <0.4 |
| 3926163 | Back Gym | <0.4 |
| 3926164 | Back Gym | <0.4 |
| 3928238 | Band | <0.4 |
| -- | Boys Dressing Room (INACCESSIBLE) | -- |

Radon Testing Results**Magruder Highschool****Testing period: 12/04/18 - 12/07/18**

| Kit Number | Room / Area | Result (pCi/L) |
|-------------------|-------------------------|-----------------------|
| 3926166 | Boys LR Office | <0.4 |
| 3928322 | BSO | <0.4 |
| 3928259 | Business Administration | <0.4 |
| 3928325 | C116 | <0.4 |
| 3928329 | C117 | 0.4 |
| 3928330 | C118 | <0.4 |
| 3926176 | C119 | <0.4 |
| 3926174 | C119A | 0.9 |
| 3926173 | C120 | <0.4 |
| 3926172 | C120 Office | <0.4 |
| 3926171 | C121 | 0.4 |
| 3928328 | C122 | <0.4 |
| 3928327 | C123 | <0.4 |
| 3928326 | C124 | 0.4 |
| 3928323 | C125 | 1.0 |
| 3928324 | C125A | 0.4 |
| 3926167 | C126 | <0.4 |
| 3926117 | C249 | <0.4 |
| 3928314 | Cafeteria | <0.4 |
| 3928315 | Cafeteria | <0.4 |
| 3928306 | Career Center | <0.4 |
| 3928239 | Choir | <0.4 |
| 3926193 | Concession A | 0.6 |
| 3926194 | Concession B | <0.4 |
| 3928229 | CONF-1 | <0.4 |
| 3928305 | CONF-2 | <0.4 |
| 3928310 | Conference | <0.4 |
| 3926162 | D127 | 0.7 |
| 3928206 | D128 | <0.4 |
| 3926180 | D129 | 0.5 |
| 3926178 | D130 | 0.5 |
| 3926179 | D131 | 0.6 |
| 3928201 | D132 | 0.7 |
| 3928202 | D132 Office | 0.5 |
| 3928203 | D133 | 0.6 |
| 3928205 | D134 | <0.4 |
| 3928207 | D135 | 0.4 |
| 3928208 | D136 | 0.5 |
| 3928209 | D137 | <0.4 |
| 3926161 | D138 | 0.5 |
| 3926119 | D255 | <0.4 |
| 3926120 | D264 | 0.5 |
| 3928234 | ESOL | <0.4 |

Radon Testing Results**Magruder Highschool****Testing period: 12/04/18 - 12/07/18**

| Kit Number | Room / Area | Result (pCi/L) |
|-------------------|------------------------|-----------------------|
| 3926195 | Exterior Concession A | <0.4 |
| 3926196 | Exterior Concession B | 0.7 |
| 3928260 | Finance Office | <0.4 |
| 3928309 | Guidance | <0.4 |
| 3928291 | Guidance 1 | 0.7 |
| 3928292 | Guidance 2 | <0.4 |
| 3928296 | Guidance 3 | <0.4 |
| 3928297 | Guidance 4 | <0.4 |
| 3928298 | Guidance 5 | <0.4 |
| 3928299 | Guidance 6 | <0.4 |
| 3928300 | Guidance 7 | <0.4 |
| 3928311 | Guidance 8 | <0.4 |
| 3928313 | Guidance 9 | 0.4 |
| 3888408 | Gym | 0.9 |
| 3888418 | Gym | 0.9 |
| 3928237 | Gym Office | 0.5 |
| 3928257 | Health | <0.4 |
| 3926165 | JROTC Office | 0.4 |
| 3928318 | Kitchen Office | 0.4 |
| 3928252 | M07 | <0.4 |
| 3928253 | Mail Room | <0.4 |
| 3928251 | Main Office | <0.4 |
| 3926111 | MC 2 | <0.4 |
| 3926090 | Media Center | <0.4 |
| 3928284 | Music Office | 0.4 |
| 3928258 | Nurse Office | <0.4 |
| 3926169 | PE Department Office | 0.4 |
| 3928282 | Practice Room 1 | 0.4 |
| 3928283 | Practice Room 2 | 0.4 |
| 3928230 | Principal | <0.4 |
| 3928293 | Registrar | <0.4 |
| 3928170 | Safe Room | <0.4 |
| 3928304 | Security Office | <0.4 |
| 3926177 | SGA Office | 0.4 |
| 3926168 | SM 9 | 0.5 |
| 3928231 | Staff Lounge | <0.4 |
| 3926116 | SU18 | <0.4 |
| 3928294 | Workroom (Guidance) | <0.4 |
| 3928254 | Workroom (Main Office) | <0.4 |

| Radon Testing Results | | |
|--|-------------------------|-----------------------|
| Magruder Highschool | | |
| Testing period: 12/04/18 - 12/07/18 | | |
| Kit Number | QC Type | Result (pCi/L) |
| 3926192 | A101(D) | 0.6 |
| 3928289 | A103(D) | <0.4 |
| 3926085 | A108 Office 2(D) | 0.8 |
| 3928303 | Asst. Principal- AP2(D) | <0.4 |
| 3928280 | B114(D) | <0.4 |
| 3926175 | C119A(D) | <0.4 |
| 3928307 | Career Center(D) | <0.4 |
| 3928204 | D133(D) | 0.7 |
| 3928210 | D137(D) | 0.4 |
| 3926701 | Field Blank | <0.4 |
| 3926702 | Field Blank | <0.4 |
| 3928312 | Guidance 8(D) | <0.4 |
| 3928319 | Kitchen Office(D) | 0.5 |
| 3928285 | Music Office(D) | <0.4 |
| 3917559 | Office Blank | <0.4 |
| 3928232 | Staff Lounge(D) | <0.4 |
| 3927610 | Transit Blank | <0.4 |
| 3928295 | Workroom- Guidance(D) | <0.4 |

Table Notes:

D – Duplicate

FB – Field Blank

OB – Office Blank

TB – Transit Blank

QC – Quality Control

ATTACHMENT C

Laboratory Analytical Results

NRPP 105011 AL
NRSB ARL0007

Laboratory Report for:

Property Tested: Project # 04481387-1

Intertek-PSI (VA)
2930 Eskridge Road
Fairfax VA 22031

MCPS Radon Survey Magruder HS
5939 Muncaster Mill Rd
Derwood MD 02855

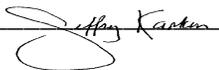
| Log Number | Device Number | Test Exposure Duration: | | Area Tested | Result pCi/L |
|------------|---------------|-------------------------|--------------------|---|--------------|
| 3202724 | 3928290 | 12/04/2018 7:42 am | 12/07/2018 7:18 am | Floor First floor Room A103 | < 0.4 |
| 3202725 | 3928286 | 12/04/2018 7:36 am | 12/07/2018 7:14 am | Floor First floor Room A102 | 0.5 |
| 3202726 | 3928285 | 12/04/2018 7:34 am | 12/07/2018 7:12 am | Floor First floor Room Music Office Duplicate | < 0.4 |
| 3202727 | 3928284 | 12/04/2018 7:34 am | 12/07/2018 7:12 am | Floor First floor Room Music Office | 0.4 |
| 3202728 | 3928281 | 12/04/2018 7:29 am | 12/07/2018 7:08 am | Floor First floor Room A104 | < 0.4 |
| 3202729 | 3928282 | 12/04/2018 7:31 am | 12/07/2018 7:09 am | Floor First floor Room Practice 1 | 0.4 |
| 3202730 | 3928283 | 12/04/2018 7:32 am | 12/07/2018 7:10 am | Floor First floor Room Practice 2 | 0.4 |
| 3202731 | 3928287 | 12/04/2018 7:38 am | 12/07/2018 7:15 am | Floor First floor Room A102 Office | < 0.4 |
| 3202732 | 3928289 | 12/04/2018 7:40 am | 12/07/2018 7:17 am | Floor First floor Room A103 Duplicate | < 0.4 |
| 3202733 | 3927610 | 12/04/2018 6:00 am | 12/07/2018 4:35 pm | Blank | < 0.4 |
| 3202734 | 3928288 | 12/04/2018 7:40 am | 12/07/2018 7:17 am | Floor First floor Room A103 | < 0.4 |

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Test Performed By: Lian Zadeng

Distributed by: Intertek-PSI (VA)

Date Received: 12/08/2018 Date Logged: 12/08/2018 Date Analyzed: 12/08/2018 Date Reported: 12/17/2018

Report Reviewed By: 

Report Approved By: 

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NRPP 105011 AL
NRSB ARL0007

Laboratory Report for:

Property Tested: Project # 04481387-1

Intertek-PSI (VA)
2930 Eskridge Road
Fairfax VA 22031

MCPS Radon Survey Magruder HS
5939 Muncaster Mill Rd
Derwood MD 02855

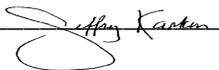
| Log Number | Device Number | Test Exposure | Duration: | Area Tested | Result pCi/L |
|------------|---------------|--------------------|--------------------|--|--------------|
| 3202735 | 3928251 | 12/04/2018 6:50 am | 12/06/2018 6:32 am | Floor First floor Room Main Office | < 0.4 |
| 3202736 | 3928252 | 12/04/2018 6:51 am | 12/06/2018 6:34 am | Floor First floor Room M07 | < 0.4 |
| 3202737 | 3928253 | 12/04/2018 6:54 am | 12/06/2018 6:37 am | Floor First floor Room Mail Room | < 0.4 |
| 3202738 | 3928254 | 12/04/2018 6:55 am | 12/06/2018 6:39 am | Floor First floor Room Workroom | < 0.4 |
| 3202739 | 3928255 | 12/04/2018 6:57 am | 12/06/2018 9:20 am | Floor First floor Room Admin. Office | < 0.4 |
| 3202740 | 3928256 | 12/04/2018 6:58 am | 12/06/2018 6:45 am | Floor First floor Room B110 | < 0.4 |
| 3202741 | 3928257 | 12/04/2018 6:59 am | 12/06/2018 6:47 am | Floor First floor Room Health Room | < 0.4 |
| 3202742 | 3928258 | 12/04/2018 7:00 am | 12/06/2018 6:48 am | Floor First floor Room Nurse Office | < 0.4 |
| 3202743 | 3928259 | 12/04/2018 7:04 am | 12/06/2018 6:50 am | Floor First floor Room Business Admin. | < 0.4 |
| 3202744 | 3928260 | 12/04/2018 7:05 am | 12/06/2018 6:52 am | Floor First floor Room Finance Office | < 0.4 |
| 3202745 | 3928170 | 12/04/2018 7:07 am | 12/06/2018 6:53 am | Floor First floor Room Safe Room | < 0.4 |

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Test Performed By: Lian Zadeng

Distributed by: Intertek-PSI (VA)

Date Received: 12/08/2018 Date Logged: 12/08/2018 Date Analyzed: 12/08/2018 Date Reported: 12/17/2018

Report Reviewed By: 

Report Approved By: 

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NRPP 105011 AL
NRSB ARL0007

Laboratory Report for:

Property Tested: Project # 04481387-1

Intertek-PSI (VA)
2930 Eskridge Road
Fairfax VA 22031

MCPS Radon Survey Magruder HS
5939 Muncaster Mill Rd
Derwood MD 02855

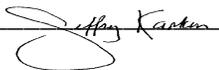
| Log Number | Device Number | Test Exposure Duration: | | Area Tested | Result pCi/L |
|------------|---------------|-------------------------|--------------------|---|--------------|
| 3202746 | 3928231 | 12/04/2018 7:10 am | 12/06/2018 6:55 am | Floor First floor Room Staff Lounge | < 0.4 |
| 3202747 | 3928232 | 12/04/2018 7:10 am | 12/06/2018 6:55 am | Floor First floor Room Staff Lounge Duplicate | < 0.4 |
| 3202748 | 3928233 | 12/04/2018 7:11 am | 12/06/2018 6:56 am | Floor First floor Room B111 | < 0.4 |
| 3202749 | 3928234 | 12/04/2018 7:13 am | 12/06/2018 6:57 am | Floor First floor Room ESOL | < 0.4 |
| 3202750 | 3928235 | 12/04/2018 7:14 am | 12/06/2018 6:58 am | Floor First floor Room B112 | < 0.4 |
| 3202751 | 3928236 | 12/04/2018 7:15 am | 12/06/2018 6:59 am | Floor First floor Room Athletic Training | < 0.4 |
| 3202752 | 3928237 | 12/04/2018 7:17 am | 12/06/2018 7:01 am | Floor First floor Room GYM Office | 0.5 |
| 3202753 | 3928238 | 12/04/2018 7:18 am | 12/06/2018 7:02 am | Floor First floor Room Band | < 0.4 |
| 3202754 | 3928239 | 12/04/2018 7:19 am | 12/06/2018 7:03 am | Floor First floor Room Choir | < 0.4 |
| 3202755 | 3928240 | 12/04/2018 7:21 am | 12/06/2018 7:05 am | Floor First floor Room A104 | 0.7 |
| 3202756 | 3928221 | 12/04/2018 7:43 am | 12/06/2018 7:19 am | Floor First floor Room A103 | < 0.4 |

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Test Performed By: Lian Zadeng

Distributed by: Intertek-PSI (VA)

Date Received: 12/08/2018 Date Logged: 12/08/2018 Date Analyzed: 12/08/2018 Date Reported: 12/17/2018

Report Reviewed By: 

Report Approved By: 

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NRPP 105011 AL
NRSB ARL0007

Laboratory Report for:

Property Tested: Project # 04481387-1

Intertek-PSI (VA)
2930 Eskridge Road
Fairfax VA 22031

MCPS Radon Survey Magruder HS
5939 Muncaster Mill Rd
Derwood MD 02855

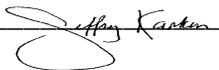
| Log Number | Device Number | Test Exposure Duration: | | Area Tested | Result pCi/L |
|------------|---------------|-------------------------|--------------------|--|--------------|
| 3202757 | 3928222 | 12/04/2018 7:44 am | 12/06/2018 7:20 am | Floor First floor Room A100 | 1.1 |
| 3202758 | 3928223 | 12/04/2018 7:45 am | 12/06/2018 7:21 am | Floor First floor Room A100 | 1.0 |
| 3202759 | 3928224 | 12/04/2018 7:46 am | 12/06/2018 7:23 am | Floor First floor Room AUD Drama Office | 0.7 |
| 3202760 | 3928225 | 12/04/2018 7:47 am | 12/06/2018 7:24 am | Floor First floor Room AUD Stage | < 0.4 |
| 3202761 | 3928226 | 12/04/2018 7:48 am | 12/06/2018 7:25 am | Floor First floor Room AUD Makeup Rm | < 0.4 |
| 3202762 | 3928228 | 12/04/2018 7:51 am | 12/06/2018 7:26 am | Floor First floor Room AUD Ladies Dressing | 0.6 |
| 3202763 | 3928229 | 12/04/2018 7:52 am | 12/06/2018 9:15 am | Floor First floor Room CONF-1 | < 0.4 |
| 3202764 | 3928230 | 12/04/2018 8:05 am | 12/06/2018 9:20 am | Floor First floor Room Principal office | < 0.4 |
| 3202765 | 3928301 | 12/04/2018 8:07 am | 12/06/2018 9:16 am | Floor First floor Room Asst. Principal | < 0.4 |
| 3202766 | 3928302 | 12/04/2018 8:09 am | 12/06/2018 9:17 am | Floor First floor Room Asst. Principal | < 0.4 |
| 3202767 | 3928303 | 12/04/2018 8:09 am | 12/06/2018 9:19 am | Floor First floor Room Asst. Principal Duplicate | < 0.4 |

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Test Performed By: Lian Zadeng

Distributed by: Intertek-PSI (VA)

Date Received: 12/08/2018 Date Logged: 12/08/2018 Date Analyzed: 12/08/2018 Date Reported: 12/17/2018

Report Reviewed By: 

Report Approved By: 

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NRPP 105011 AL
NRSB ARL0007

Laboratory Report for:

Property Tested: Project # 04481387-1

Intertek-PSI (VA)
2930 Eskridge Road
Fairfax VA 22031

MCPS Radon Survey Magruder HS
5939 Muncaster Mill Rd
Derwood MD 02855

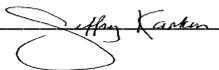
| Log Number | Device Number | Test Exposure Duration: | | Area Tested | Result pCi/L |
|------------|---------------|-------------------------|--------------------|--|--------------|
| 3202768 | 3928304 | 12/04/2018 8:10 am | 12/06/2018 9:21 am | Floor First floor Room Security Office | < 0.4 |
| 3202769 | 3928305 | 12/04/2018 8:11 am | 12/06/2018 9:22 am | Floor First floor Room CONF-2 | < 0.4 |
| 3202770 | 3928306 | 12/04/2018 8:12 am | 12/06/2018 9:24 am | Floor First floor Room Career Center | < 0.4 |
| 3202771 | 3928307 | 12/04/2018 8:12 am | 12/06/2018 9:24 am | Floor First floor Room Career Center Duplicate | < 0.4 |
| 3202772 | 3928309 | 12/04/2018 8:15 am | 12/06/2018 7:30 am | Floor First floor Room Guidance | < 0.4 |
| 3202773 | 3928310 | 12/04/2018 8:16 am | 12/06/2018 7:36 am | Floor First floor Room Conference | < 0.4 |
| 3202774 | 3928291 | 12/04/2018 8:18 am | 12/06/2018 7:38 am | Floor First floor Room Guidance 1 | 0.7 |
| 3202775 | 3928292 | 12/04/2018 8:19 am | 12/06/2018 7:40 am | Floor First floor Room Guidance 2 | < 0.4 |
| 3202776 | 3928293 | 12/04/2018 8:20 am | 12/06/2018 7:41 am | Floor First floor Room Registrar | < 0.4 |
| 3202777 | 3928294 | 12/04/2018 8:22 am | 12/06/2018 7:42 am | Floor First floor Room Workroom | < 0.4 |
| 3202778 | 3928295 | 12/04/2018 8:22 am | 12/06/2018 7:45 am | Floor First floor Room Workroom | < 0.4 |

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Test Performed By: Lian Zadeng

Distributed by: Intertek-PSI (VA)

Date Received: 12/08/2018 Date Logged: 12/08/2018 Date Analyzed: 12/08/2018 Date Reported: 12/17/2018

Report Reviewed By: 

Report Approved By: 

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Laboratory Report for:

Property Tested: Project # 04481387-1

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Fairfax VA 22031

MCPS Radon Survey Magruder HS
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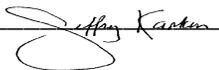
| Log Number | Device Number | Test Exposure | Duration: | Area Tested | Result pCi/L |
|------------|---------------|--------------------|--------------------|---|--------------|
| 3202779 | 3928296 | 12/04/2018 8:23 am | 12/06/2018 7:45 am | Floor First floor Room Guidance 3 Duplicate | < 0.4 |
| 3202780 | 3928297 | 12/04/2018 8:26 am | 12/06/2018 7:46 am | Floor First floor Room Guidance 4 | < 0.4 |
| 3202781 | 3928298 | 12/04/2018 8:27 am | 12/06/2018 7:47 am | Floor First floor Room Guidance 5 | < 0.4 |
| 3202782 | 3928299 | 12/04/2018 8:28 am | 12/06/2018 7:48 am | Floor First floor Room Guidance 6 | < 0.4 |
| 3202783 | 3928300 | 12/04/2018 8:29 am | 12/06/2018 7:49 am | Floor First floor Room Guidance 7 | < 0.4 |
| 3202784 | 3928311 | 12/04/2018 8:30 am | 12/06/2018 7:50 am | Floor First floor Room Guidance 8 | < 0.4 |
| 3202785 | 3928312 | 12/04/2018 8:30 am | 12/06/2018 7:50 am | Floor First floor Room Guidance 8 Duplicate | < 0.4 |
| 3202786 | 3928313 | 12/04/2018 8:32 am | 12/06/2018 7:52 am | Floor First floor Room Guidance 9 | 0.4 |
| 3202787 | 3928314 | 12/04/2018 8:34 am | 12/06/2018 8:00 am | Floor First floor Room Cafeteria | < 0.4 |
| 3202788 | 3928315 | 12/04/2018 8:35 am | 12/06/2018 8:02 am | Floor First floor Room Cafeteria | < 0.4 |
| 3202789 | 3928318 | 12/04/2018 8:37 am | 12/06/2018 8:05 am | Floor First floor Room Kitchen Office | 0.4 |

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Test Performed By: Lian Zadeng

Distributed by: Intertek-PSI (VA)

Date Received: 12/08/2018 Date Logged: 12/08/2018 Date Analyzed: 12/08/2018 Date Reported: 12/17/2018

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Report Approved By: 

Shawn Price, Director of Laboratory Operations, AccuStar Labs

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Laboratory Report for:

Property Tested: Project # 04481387-1

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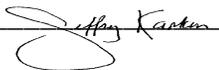
| Log Number | Device Number | Test Exposure Duration: | Area Tested | Result pCi/L |
|------------|---------------|---|---|--------------|
| 3202790 | 3928319 | 12/04/2018 8:37 am - 12/06/2018 8:04 am | Floor First floor Room Kitchen Office Duplicate | 0.5 |
| 3202791 | 3928278 | 12/04/2018 8:41 am - 12/06/2018 8:05 am | Floor First floor Room B113 | < 0.4 |
| 3202792 | 3928279 | 12/04/2018 8:43 am - 12/06/2018 8:07 am | Floor First floor Room B114 | < 0.4 |
| 3202793 | 3928280 | 12/04/2018 8:43 am - 12/06/2018 8:07 am | Floor First floor Room B114 Duplicate | < 0.4 |
| 3202794 | 3928321 | 12/04/2018 8:44 am - 12/06/2018 8:08 am | Floor First floor Room B115 | < 0.4 |
| 3202795 | 3928322 | 12/04/2018 8:46 am - 12/06/2018 8:10 am | Floor First floor Room BSO | < 0.4 |
| 3202796 | 3928323 | 12/04/2018 8:47 am - 12/06/2018 8:15 am | Floor First floor Room C125 | 1.0 |
| 3202797 | 3928324 | 12/04/2018 8:49 am - 12/06/2018 8:16 am | Floor First floor Room C125A | 0.4 |
| 3202798 | 3928325 | 12/04/2018 8:50 am - 12/06/2018 8:20 am | Floor First floor Room C116 | < 0.4 |
| 3202799 | 3928326 | 12/04/2018 8:51 am - 12/06/2018 8:21 am | Floor First floor Room C124 | 0.4 |
| 3202800 | 3928327 | 12/04/2018 8:52 am - 12/06/2018 8:22 am | Floor First floor Room C123 | < 0.4 |

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Test Performed By: Lian Zadeng

Distributed by: Intertek-PSI (VA)

Date Received: 12/08/2018 Date Logged: 12/08/2018 Date Analyzed: 12/08/2018 Date Reported: 12/17/2018

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Report Approved By: 

Shawn Price, Director of Laboratory Operations, AccuStar Labs

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Property Tested: Project # 04481387-1

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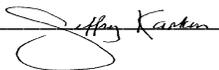
| Log Number | Device Number | Test Exposure Duration: | | Area Tested | Result pCi/L |
|------------|---------------|-------------------------|--------------------|--|--------------|
| 3202801 | 3928328 | 12/04/2018 8:54 am | 12/06/2018 8:25 am | Floor First floor Room C122 | < 0.4 |
| 3202802 | 3928329 | 12/04/2018 8:55 am | 12/06/2018 8:27 am | Floor First floor Room C117 | 0.4 |
| 3202803 | 3928330 | 12/04/2018 8:56 am | 12/06/2018 8:29 am | Floor First floor Room C118 | < 0.4 |
| 3202804 | 3926171 | 12/04/2018 8:57 am | 12/06/2018 8:30 am | Floor First floor Room C121 | 0.4 |
| 3202805 | 3926172 | 12/04/2018 8:59 am | 12/06/2018 8:34 am | Floor First floor Room C120 | < 0.4 |
| 3202806 | 3926173 | 12/04/2018 9:00 am | 12/06/2018 8:35 am | Floor First floor Room C120 | < 0.4 |
| 3202807 | 3926174 | 12/04/2018 9:01 am | 12/06/2018 8:40 am | Floor First floor Room C119A | 0.9 |
| 3202808 | 3926175 | 12/04/2018 9:01 am | 12/06/2018 8:40 am | Floor First floor Room C119A Duplicate | < 0.4 |
| 3202809 | 3926176 | 12/04/2018 9:03 am | 12/06/2018 8:41 am | Floor First floor Room C119 | < 0.4 |
| 3202810 | 3926177 | 12/04/2018 9:05 am | 12/06/2018 8:43 am | Floor First floor Room SGA Office | 0.4 |
| 3202811 | 3926178 | 12/04/2018 9:07 am | 12/06/2018 8:45 am | Floor First floor Room D130 | 0.5 |

Comment: AMENDED REPORT on 1-9-18 to add corrected stop dates of 12-7-18. Device 3928308 was listed on the datasheet but not received.

Test Performed By: Lian Zadeng

Distributed by: Intertek-PSI (VA)

Date Received: 12/08/2018 Date Logged: 12/08/2018 Date Analyzed: 12/08/2018 Date Reported: 12/17/2018

Report Reviewed By: 

Report Approved By: 

Shawn Price, Director of Laboratory Operations, AccuStar Labs

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NRPP 105011 AL
NRSB ARL0007

Laboratory Report for:

Property Tested: Project # 04481387-1

Intertek-PSI (VA)
2930 Eskridge Road
Fairfax VA 22031

MCPS Radon Survey Magruder HS
5939 Muncaster Mill Rd
Derwood MD 02855

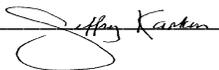
| Log Number | Device Number | Test Exposure Duration: | | Area Tested | Result pCi/L |
|------------|---------------|-------------------------|--------------------|---------------------------------------|--------------|
| 3202812 | 3926179 | 12/04/2018 9:08 am | 12/06/2018 8:46 am | Floor First floor Room D131 | 0.6 |
| 3202813 | 3926180 | 12/04/2018 9:09 am | 12/06/2018 8:47 am | Floor First floor Room D129 | 0.5 |
| 3202814 | 3928201 | 12/04/2018 9:10 am | 12/06/2018 8:48 am | Floor First floor Room D132 | 0.7 |
| 3202815 | 3928202 | 12/04/2018 9:12 am | 12/06/2018 8:49 am | Floor First floor Room D132 | 0.5 |
| 3202816 | 3928203 | 12/04/2018 9:13 am | 12/06/2018 8:50 am | Floor First floor Room D133 | 0.6 |
| 3202817 | 3928204 | 12/04/2018 9:13 am | 12/06/2018 8:50 am | Floor First floor Room D133 Duplicate | 0.7 |
| 3202818 | 3928205 | 12/04/2018 9:15 am | 12/06/2018 8:52 am | Floor First floor Room D134 | < 0.4 |
| 3202819 | 3928206 | 12/04/2018 9:17 am | 12/06/2018 8:53 am | Floor First floor Room D128 | < 0.4 |
| 3202820 | 3928207 | 12/04/2018 9:18 am | 12/06/2018 8:54 am | Floor First floor Room D135 | 0.4 |
| 3202821 | 3928208 | 12/04/2018 9:19 am | 12/06/2018 8:55 am | Floor First floor Room D136 | 0.5 |
| 3202822 | 3928209 | 12/04/2018 9:20 am | 12/06/2018 8:56 am | Floor First floor Room D137 | < 0.4 |

Comment: AMENDED REPORT on 1-9-18 to add corrected stop dates of 12-7-18. Device 3928308 was listed on the datasheet but not received.

Test Performed By: Lian Zadeng

Distributed by: Intertek-PSI (VA)

Date Received: 12/08/2018 Date Logged: 12/08/2018 Date Analyzed: 12/08/2018 Date Reported: 12/17/2018

Report Reviewed By: 

Report Approved By: 

Shawn Price, Director of Laboratory Operations, AccuStar Labs

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NRPP 105011 AL
NRSB ARL0007

Laboratory Report for:

Property Tested: Project # 04481387-1

Intertek-PSI (VA)
2930 Eskridge Road
Fairfax VA 22031

MCPS Radon Survey Magruder HS
5939 Muncaster Mill Rd
Derwood MD 02855

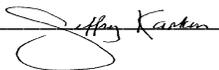
| Log Number | Device Number | Test Exposure Duration: | | Area Tested | Result pCi/L |
|------------|---------------|-------------------------|--------------------|--|--------------|
| 3202823 | 3928210 | 12/04/2018 9:20 am | 12/06/2018 8:56 am | Floor First floor Room D137 Duplicate | 0.4 |
| 3202824 | 3926161 | 12/04/2018 9:22 am | 12/06/2018 8:57 am | Floor First floor Room D138 | 0.5 |
| 3202825 | 3926162 | 12/04/2018 9:23 am | 12/06/2018 8:58 am | Floor First floor Room D127 | 0.7 |
| 3202826 | 3926163 | 12/04/2018 9:25 am | 12/06/2018 9:02 am | Floor First floor Room Back Gym | < 0.4 |
| 3202827 | 3926164 | 12/04/2018 9:26 am | 12/06/2018 9:03 am | Floor First floor Room Back Gym | < 0.4 |
| 3202828 | 3926165 | 12/04/2018 9:28 am | 12/06/2018 9:05 am | Floor First floor Room JROTC Office | 0.4 |
| 3202829 | 3926166 | 12/04/2018 9:29 am | 12/06/2018 9:06 am | Floor First floor Room Boys LR Office | < 0.4 |
| 3202830 | 3926167 | 12/04/2018 9:30 am | 12/06/2018 9:07 am | Floor First floor Room C126 | < 0.4 |
| 3202831 | 3926168 | 12/04/2018 9:32 am | 12/06/2018 9:08 am | Floor First floor Room SM 9 | 0.5 |
| 3202832 | 3926169 | 12/04/2018 9:33 am | 12/06/2018 9:10 am | Floor First floor Room PE dept. office | 0.4 |
| 3202833 | 3926170 | 12/04/2018 9:35 am | 12/06/2018 9:11 am | Floor First floor Room A109 | 0.7 |

Comment: AMENDED REPORT on 1-9-18 to add corrected stop dates of 12-7-18. Device 3928308 was listed on the datasheet but not received.

Test Performed By: Lian Zadeng

Distributed by: Intertek-PSI (VA)

Date Received: 12/08/2018 Date Logged: 12/08/2018 Date Analyzed: 12/08/2018 Date Reported: 12/17/2018

Report Reviewed By: 

Report Approved By: 

Shawn Price, Director of Laboratory Operations, AccuStar Labs

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NRPP 105011 AL
NRSB ARL0007

Laboratory Report for:

Property Tested: Project # 04481387-1

Intertek-PSI (VA)
2930 Eskridge Road
Fairfax VA 22031

MCPS Radon Survey Magruder HS
5939 Muncaster Mill Rd
Derwood MD 02855

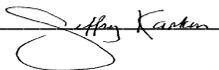
| Log Number | Device Number | Test Exposure Duration: | | Area Tested | Result pCi/L |
|------------|---------------|-------------------------|--------------------|--|--------------|
| 3202834 | 3926081 | 12/04/2018 9:37 am | 12/06/2018 9:13 am | Floor First floor Room AUX Gym | 0.4 |
| 3202835 | 3926082 | 12/04/2018 9:39 am | 12/06/2018 9:15 am | Floor First floor Room A108 | < 0.4 |
| 3202836 | 3926083 | 12/04/2018 9:39 am | 12/06/2018 9:17 am | Floor First floor Room A108 Office 1 | < 0.4 |
| 3202837 | 3926084 | 12/04/2018 9:40 am | 12/06/2018 9:18 am | Floor First floor Room A108 Office 2 | 0.5 |
| 3202838 | 3926085 | 12/04/2018 9:40 am | 12/06/2018 9:19 am | Floor First floor Room A108 Office 2 Duplicate | 0.8 |
| 3202839 | 3926086 | 12/04/2018 9:41 am | 12/06/2018 9:20 am | Floor First floor Room A107 | < 0.4 |
| 3202840 | 3926087 | 12/04/2018 9:46 am | 12/06/2018 9:24 am | Floor Second Floor Room A203 | < 0.4 |
| 3202841 | 3926088 | 12/04/2018 9:47 am | 12/06/2018 9:25 am | Floor Second Floor Room A217 | < 0.4 |
| 3202842 | 3926089 | 12/04/2018 9:48 am | 12/06/2018 9:26 am | Floor Second Floor Room A216 | < 0.4 |
| 3202843 | 3926090 | 12/04/2018 9:50 am | 12/06/2018 9:28 am | Floor Second Floor Room Media Center | < 0.4 |
| 3202844 | 3926111 | 12/04/2018 9:51 am | 12/06/2018 9:29 am | Floor Second Floor Room MC 2 | < 0.4 |

Comment: AMENDED REPORT on 1-9-18 to add corrected stop dates of 12-7-18. Device 3928308 was listed on the datasheet but not received.

Test Performed By: Lian Zadeng

Distributed by: Intertek-PSI (VA)

Date Received: 12/08/2018 Date Logged: 12/08/2018 Date Analyzed: 12/08/2018 Date Reported: 12/17/2018

Report Reviewed By: 

Report Approved By: 

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Shawn Price, Director of Laboratory Operations, AccuStar Labs

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NRPP 105011 AL
NRSB ARL0007

Laboratory Report for:

Property Tested: Project # 04481387-1

Intertek-PSI (VA)
2930 Eskridge Road
Fairfax VA 22031

MCPS Radon Survey Magruder HS
5939 Muncaster Mill Rd
Derwood MD 02855

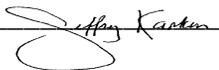
| Log Number | Device Number | Test Exposure Duration: | | Area Tested | Result pCi/L |
|------------|---------------|-------------------------|--------------------|---------------------------------------|--------------|
| 3202845 | 3926112 | 12/04/2018 9:53 am | 12/06/2018 9:30 am | Floor Second Floor Room B221 | < 0.4 |
| 3202846 | 3926113 | 12/04/2018 9:54 am | 12/06/2018 9:32 am | Floor Second Floor Room B229 | < 0.4 |
| 3202847 | 3926114 | 12/04/2018 9:55 am | 12/06/2018 9:33 am | Floor Second Floor Room B228 | < 0.4 |
| 3202848 | 3926115 | 12/04/2018 9:57 am | 12/06/2018 9:35 am | Floor Second Floor Room B232 | < 0.4 |
| 3202849 | 3926116 | 12/04/2018 10:00 am | 12/06/2018 9:37 am | Floor Second Floor Room SU18 | < 0.4 |
| 3202850 | 3926117 | 12/04/2018 10:01 am | 12/06/2018 9:40 am | Floor Second Floor Room C249 | < 0.4 |
| 3202851 | 3926119 | 12/04/2018 10:06 am | 12/06/2018 9:41 am | Floor Second Floor Room D255 | < 0.4 |
| 3202852 | 3926120 | 12/04/2018 10:08 am | 12/06/2018 9:42 am | Floor Second Floor Room D264 | 0.5 |
| 3202853 | 3926191 | 12/04/2018 10:15 am | 12/06/2018 9:29 am | Floor First floor Room A101 | 1.0 |
| 3202854 | 3926192 | 12/04/2018 10:15 am | 12/06/2018 9:29 am | Floor First floor Room A101 Duplicate | 0.7 |
| 3202855 | 3926193 | 12/04/2018 10:33 am | 12/06/2018 9:30 am | Floor First floor Room Concession | 0.6 |

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Test Performed By: Lian Zadeng

Distributed by: Intertek-PSI (VA)

Date Received: 12/08/2018 Date Logged: 12/08/2018 Date Analyzed: 12/08/2018 Date Reported: 12/17/2018

Report Reviewed By: 

Report Approved By: 
Shawn Price, Director of Laboratory Operations, AccuStar Labs

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NRPP 105011 AL
NRSB ARL0007

Laboratory Report for:

Property Tested: Project # 04481387-1

Intertek-PSI (VA)
2930 Eskridge Road
Fairfax VA 22031

MCPS Radon Survey Magruder HS
5939 Muncaster Mill Rd
Derwood MD 02855

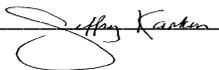
| Log Number | Device Number | Test Date | Exposure Start | Exposure End | Area Tested | Result pCi/L |
|------------|---------------|------------|----------------|--------------------|--|--------------|
| 3202856 | 3926194 | 12/04/2018 | 10:33 am | 12/06/2018 9:31 am | Floor First floor Room Concession | < 0.4 |
| 3202857 | 3926195 | 12/04/2018 | 10:26 am | 12/06/2018 9:38 am | Floor First floor Room Ext. concession | < 0.4 |
| 3202858 | 3926196 | 12/04/2018 | 10:26 am | 12/06/2018 9:39 am | Floor First floor Room Ext. concession | 0.7 |
| 3202859 | 3926197 | 12/04/2018 | 10:40 am | 12/06/2018 9:33 am | Floor First floor Room Athletic Director | < 0.4 |
| 3202860 | 3917559 | 12/04/2018 | 6:00 am | 12/06/2018 4:35 pm | Blank | < 0.4 |
| 3202861 | 3926701 | 12/04/2018 | 6:50 am | 12/06/2018 9:42 am | Blank | < 0.4 |
| 3202862 | 3926702 | 12/04/2018 | 6:50 am | 12/06/2018 9:42 am | Blank | < 0.4 |

Comment: AMENDED REPORT on 1-9-18 to add corrected stop dates of 12-7-18. Device 3928308 was listed on the datasheet but not received.

Test Performed By: Lian Zadeng

Distributed by: Intertek-PSI (VA)

Date Received: 12/08/2018 Date Logged: 12/08/2018 Date Analyzed: 12/08/2018 Date Reported: 12/17/2018

Report Reviewed By: 

Report Approved By: 

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NELAC NY 11769
NRPP 103216 AL
NRSB ARL0017

Laboratory Report for:

Property Tested: Project # 04481387-1

Intertek-PSI (VA)
2930 Eskridge Road
Fairfax VA 22031

MCPS Radon Survey
5939 Muncaster Mill Rd
Derwood MD 02855

| Log Number | Device Number | Test Exposure | Duration: | Area Tested | Result pCi/L |
|------------|---------------|--------------------|--------------------|----------------------------|--------------|
| 2405271 | 3888408 | 12/04/2018 7:25 am | 12/06/2018 7:06 am | Floor First floor Room GYM | 0.9 |
| 2405272 | 3888418 | 12/04/2018 7:26 am | 12/06/2018 7:07 am | Floor First floor Room GYM | 0.9 |

Comment: A copy of this report was emailed to Intertek-PSI (VA).

Distributed by: Intertek-PSI (VA)

Date Received: 12/08/2018 Date Logged: Date Analyzed: 12/10/2018 Date Reported: 01/02/2019

Report Reviewed By: 

Report Approved By: 

Disclaimer:

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NRPP 105011 AL
NRSB ARL0007
Ohio RL41

EPA Method #402-R-92-004
Charcoal Canister
NRPP Device Code 6048
NRSB Device Code 10317

Laboratory Report for:

Property Tested:

Intertek-PSI (VA)
2930 Eskridge Road
Fairfax VA 22031

MCPS Radon Survey
4514 Taylorsville Road
Dayton OH 45424

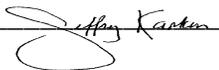
| Log Number | Device Number | Test Exposure Duration: | Area Tested | Result pCi/L |
|------------|---------------|---|-------------|--------------|
| 3204125 | 3926831 | 12/07/2018 9:47 am - 12/10/2018 9:47 am | Spike | 36.1 |
| 3204126 | 3926832 | 12/07/2018 9:47 am - 12/10/2018 9:47 am | Spike | 34.8 |
| 3204127 | 3926833 | 12/07/2018 9:47 am - 12/10/2018 9:47 am | Spike | 33.7 |
| 3204128 | 3926834 | 12/07/2018 9:47 am - 12/10/2018 9:47 am | Spike | 35.8 |
| 3204129 | 3926835 | 12/07/2018 9:47 am - 12/10/2018 9:47 am | Spike | 35.0 |
| 3204130 | 3926836 | 12/07/2018 9:47 am - 12/10/2018 9:47 am | Spike | 34.5 |
| 3204131 | 3926837 | 12/07/2018 9:47 am - 12/10/2018 9:47 am | Spike | 34.6 |
| 3204132 | 3926838 | 12/07/2018 9:47 am - 12/10/2018 9:47 am | Spike | 34.3 |
| 3204133 | 3926839 | 12/07/2018 9:47 am - 12/10/2018 9:47 am | Spike | 33.2 |
| 3204134 | 3926840 | 12/07/2018 9:47 am - 12/10/2018 9:47 am | Spike | 34.0 |

Comment: A copy of this report was e-mailed to Intertek-PSI (VA)

Test Performed By: Unknown

Distributed by: Intertek-PSI (VA)

Date Received: 12/12/2018 Date Logged: 12/12/2018 Date Analyzed: 12/12/2018 Date Reported: 12/13/2018

Report Reviewed By: 

Report Approved By: 

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EXPOSURE IN BOWSER-MORNER RADON CHAMBER

CLIENT Intertek - PSI

Job Number 187732

NOMINAL Conditions: Radon Conc 32.6 pCi/L Rel. Hum 49.1 % Temp. 70.1 F

Date Start: 12/7/18 Date Stop: 12/10/18

Date Start: _____ Date Stop: _____

Time Start: 0947 Time Stop: 0947

Time Start: _____ Time Stop: _____

Device No.'s: (10) Char. Cans-

Device No.'s: _____

3926831 thru 3926840

G2 left

Date Start: _____ Date Stop: _____

Date Start: _____ Date Stop: _____

Time Start: _____ Time Stop: _____

Time Start: _____ Time Stop: _____

Device No.'s: _____

Device No.'s: _____

Date Start: _____ Date Stop: _____

Date Start: _____ Date Stop: _____

Time Start: _____ Time Stop: _____

Time Start: _____ Time Stop: _____

Device No.'s: _____

Device No.'s: _____

Note: All times are in 24-hour (military) notation, Eastern Standard Time (EST)
Background = 7 μ R/h Elevation = 820 ft



Chain of Custody

Project Name: MCPS Radon Survey 2018

Name of Schools:

1. Grosvenor Center (Luxmanor ES)
2. Montrose Center
3. Gibbs ES
4. Westbrook ES
5. Hadley Farms (Resnik ES)
6. Kingsview MS
7. Longview School
8. Lynnbrook Center
9. Magruder HS
10. McAuliffe ES
11. McNair ES
12. Mill Creek Towne ES
13. Martin Luther King MS
14. Montgomery Village MS
15. Great Seneca Creek ES
16. Quince Orchard HS
17. Redland MS
18. North Bethesda MS
19. Spark Matsunaga ES
20. Whetstone ES
21. Wood Acres ES

| | Date | Initials |
|----------------------------------|---------------------------|----------|
| Radon Test Kits Deployed | 12/04/2018 | ML |
| Radon Test Kits Sampled | 12/07/2018 | ML |
| Radon Test Kits Shipped to Lab* | 12/07/2018 | ML |
| Radon Test Kits Received by Lab* | 12/08/2018; 12/09/2018 | ML |

*All samples sent to AccuStar Laboratories, 929 Mount Zion Road, Lebanon, PA 17046 and 2 Saber Way, Haverhill, MA 01835



MCPS RADON TESTING

Executive Summary: Magruder High School

| | |
|---------------------------|--|
| Date of Test Report: | 1/21/2016 |
| Round of Testing: | Initial Follow-up Post Remediation |
| # Rooms Tested: | 121 |
| # Rooms \geq 4.0 pCi/L: | 0 |
| Low Value: | < 0.3 |
| High Value: | 1.2 |

Project Status:

Initial testing completed; no further action at this time.



January 21, 2016

Mr. Richard Cox
Indoor Air Quality Team Leader
Montgomery County Public Schools
850 Hungerford Drive
Rockville, MD 20850

Re: **Radon Testing Services**
KCI Job # 12146341.21

Location: Magruder High School
5939 Muncaster Mill Road
Rockville, MD 20855

Dear Mr. Cox:

KCI Technologies, Inc. (KCI) is pleased to submit the following report to the Montgomery County Public Schools (MCPS) pursuant to completing a “short-term” 3 day radon test for the Magruder High School, located at 5939 Muncaster Mill Road in Rockville, Maryland 20855 (subject site).

Scope of Services:

KCI conducted radon testing at the subject site to evaluate indoor radon levels relative to the USEPA's recommended action level of 4.0 picocuries per Liter (pCi/L) - the level at which EPA recommends that schools take action to reduce the level. KCI conducted the radon testing in accordance with American Association of Radon Scientists and Technologists (AARST) *Protocol for Conducting Measurements of Radon and Radon Decay Products in Schools and Large Buildings*. A National Radon Safety Board (NRSB) Radon Measurement Specialist (certification #14SS056) supervised the testing. Additional information on radon management and the health effects of radon exposure is available from www.montgomerycountymd.gov/dep/air/radon or www.epa.gov/radon.

KCI visited the site on December 28, 2015 and deployed one hundred forty-one (141) activated charcoal (AC) radon test kits. KCI deployed radon test kits in frequently-occupied ground contact rooms, and other areas, (if applicable) in accordance with AARST guidance. A floor plan map of the building with the test locations is included as Attachment A of this report.

As a quality control measure, KCI included duplicate samples, field blanks, lab transit blanks, and office blanks in accordance with AARST recommendations. In addition, KCI submitted six (6) test kits to Bowser-Morner, Inc. as spike samples. The spiked tests were exposed to a known radon concentration by Bowser-Morner prior to being returned to the laboratory for analysis.

KCI returned to the site on December 31, 2015 to retrieve the radon sampling test kits. KCI shipped all radon tests via overnight delivery to Airchek, Inc. for analysis by gamma-ray spectroscopy. Airchek, Inc. is a NRSB certified analytical laboratory for radon analysis (certification # ARL1402) located at 1936

Butler Bridge Road, Mills River, North Carolina.

Evaluation of Testing Conditions:

The operating condition that represents the greatest amount of significantly occupied time for this building is; heating active, with outdoor temperature averages $\leq 65^{\circ}$ F.

KCI concludes that the test period reasonably represents normal conditions when the building is significantly occupied. Clear characterization of the radon hazard is most likely to be observed under this normal operating condition. Based on the evaluation of test conditions, this test should reasonably characterize radon hazards.

KCI also conducted observations of field conditions which could affect the results of the test and compiled weather data for the testing period. KCI recorded observations of the following conditions in each room at the time of deployment and collection of the radon test kits:

- Indoor temperature,
- HVAC Operation,
- Dehumidifier operation,
- Humidifier operation,
- Ceiling fan operation, and
- Open windows or doors.

Results:

The results of the radon test analysis indicated the following:

| Radon Concentration | Room | Result |
|----------------------------|------------------|---------------|
| ≥ 4.0 pCi/L | None | n/a |
| < 4.0 pCi/L | See Attachment B | |

Notes:
D- Duplicate sample

All field blanks, office blank, and lab transit blanks had test results of less than the laboratory detection limit of 0.3 pCi/L. Review of the duplicate sample analysis indicates that adequate laboratory measurement precision was achieved. The Spike sample analysis results indicate the laboratory is operating within statistical control limits.

The sampling locations, field observations, and analytical results are listed on Table 1 (Attachment B). The laboratory analytical results are also attached (Attachment C). Laboratory results and exposure data for the spike samples are also included in Attachment C.

Our professional services have been performed in accordance with customary principles and practices in the field of industrial hygiene and engineering. If you have any questions or comments regarding this report, please feel free to contact me at (410) 316-7800.

Sincerely,



James M. Mouldale
Radon Measurement Specialist
KCI Technologies, Inc.

Attachments: A- Floor Plan with Test Locations
 B- Table 1-Radon Test Summary Spreadsheet
 C- Laboratory Analytical Results

ATTACHMENT B

Radon Test Summary Spreadsheet

Table Notes:

AC- Activated Charcoal

ACI- Air Chek, Inc.

D- Duplicate

FB- Field Blank

KCI- KCI Technologies, Inc.

OB- Office Blank

PM- Project Manager

QC- Quality Control

| Radon Testing Results | | |
|---------------------------------------|--------------------|---------------|
| Magruder HS | | |
| Test Period: 12/28/15-12/31/15 | | |
| Kit Number | Room / Area | Result |
| 7707756 | A100 | < 0.3 |
| 7710186 | A101 | < 0.3 |
| 7711888 | A101 | < 0.3 |
| 7707761 | A102 | < 0.3 |
| 7707710 | A103 | 0.7 |
| 7707763 | A104 | < 0.3 |
| 7713973 | A105 | < 0.3 |
| 7711806 | A106 | < 0.3 |
| 7707719 | A107 | < 0.3 |
| 7707720 | A107A | < 0.3 |
| 7707736 | A108 | < 0.3 |
| 7707705 | A108A | < 0.3 |
| 7707702 | ADMIN SECRETARY | < 0.3 |
| 7707721 | ASSIST PRINC | < 0.3 |
| 7707722 | ASSIST PRINC DAV | < 0.3 |
| 7707725 | ASSIST PRINC SHE | < 0.3 |
| 7711894 | ATHLETIC DIRECTOR | < 0.3 |
| 7707726 | ATTENDANCE | < 0.3 |
| 7711805 | AUDITORIUM | 0.7 |
| 7713904 | AUDITORIUM | < 0.3 |
| 7707752 | B110 | 0.6 |
| 7707755 | B110 | < 0.3 |
| 7707716 | B111 | < 0.3 |
| 7707718 | B111A | < 0.3 |
| 7707703 | B112 | < 0.3 |
| 7707798 | B114 | < 0.3 |
| 7707797 | B115 | < 0.3 |
| 7711886 | B221 | < 0.3 |
| 7713812 | B222 | < 0.3 |
| 7713815 | B2234 | < 0.3 |
| 7710192 | B225 | < 0.3 |
| 7711810 | B226 | < 0.3 |
| 7711809 | B227 | < 0.3 |
| 7713826 | B229 | < 0.3 |
| 7713827 | B230 | < 0.3 |
| 7713909 | B233 | < 0.3 |
| 7711830 | B234 | < 0.3 |
| 7707741 | BACK GYM | < 0.3 |
| 7707748 | BACK GYM | < 0.3 |
| 7711804 | BOYS DEP OFFICE | < 0.3 |
| 7707784 | C116 | < 0.3 |
| 7707782 | C117 | < 0.3 |
| 7707781 | C117A | < 0.3 |
| 7707783 | C118 | < 0.3 |
| 7707794 | C118A | < 0.3 |
| 7707789 | C119 | < 0.3 |

Table Note:

* Missing or Compromised Sample

| Radon Testing Results | | |
|---------------------------------------|--------------------|---------------|
| Magruder HS | | |
| Test Period: 12/28/15-12/31/15 | | |
| Kit Number | Room / Area | Result |
| 7707791 | C119A | < 0.3 |
| 7707779 | C120 | < 0.3 |
| 7707777 | C121 | < 0.3 |
| 7707785 | C122 | < 0.3 |
| 7707786 | C123 | < 0.3 |
| 7707776 | C124 | < 0.3 |
| 7707775 | C125 | < 0.3 |
| 7707772 | C125A | 0.6 |
| 7707704 | C126 | < 0.3 |
| 7707792 | CAFETERIA | < 0.3 |
| 7707795 | CAFETERIA | < 0.3 |
| 7707735 | CAREER CENTER | < 0.3 |
| 7707750 | CONF RM GUIDANCE | < 0.3 |
| 7707733 | CONF ROOM PRIN | < 0.3 |
| 7707724 | CONFERENCE ROOM | < 0.3 |
| 7707740 | D127 | < 0.3 |
| 7707765 | D128 | < 0.3 |
| 7707773 | D129 | < 0.3 |
| 7707774 | D130 | < 0.3 |
| 7707768 | D131 | < 0.3 |
| 7707769 | D132 | 1.1 |
| 7707770 | D133 | < 0.3 |
| 7707767 | D134 | < 0.3 |
| 7707728 | D135 | < 0.3 |
| 7707729 | D136 | < 0.3 |
| 7707730 | D137 | < 0.3 |
| 7707732 | D138 | 1.2 |
| 7707711 | DARK ROOM | 1.2 |
| 7707734 | FINANCE 2 | < 0.3 |
| 7707737 | FINANCE OFFICE | < 0.3 |
| 7707754 | GUIDANCE | < 0.3 |
| 7707799 | GYM | 0.9 |
| 7707800 | GYM | 1 |
| 7711887 | HEAD COACH RM | 0.7 |
| 7711897 | HEAD COACH RM | < 0.3 |
| 7707712 | HEALTH OFFICE | < 0.3 |
| 7707707 | HEALTH ROOM | < 0.3 |
| 7707793 | KITCHEN | < 0.3 |
| 7711866 | KITCHEN | < 0.3 |
| 7713911 | KITCHEN | < 0.3 |
| 7707616 | KITCHEN OFFICE | < 0.3 |
| 7711862 | KITCHEN OFFICE | < 0.3 |
| 7707615 | MAIN OFFICE | < 0.3 |
| 7707723 | MAIN OFFICE | < 0.3 |
| 7711832 | MAKEUPNROOM | 0.8 |
| 7707753 | OFFICE 1 | 0.7 |
| 7707758 | OFFICE 2 | < 0.3 |
| 7707745 | OFFICE 3 | < 0.3 |
| 7707749 | OFFICE 4 | < 0.3 |
| 7713917 | OFFICE 4 | < 0.3 |

Table Note:

* Missing or Compromised Sample

| Radon Testing Results | | |
|---------------------------------------|--------------------|---------------|
| Magruder HS | | |
| Test Period: 12/28/15-12/31/15 | | |
| Kit Number | Room / Area | Result |
| 7707742 | OFFICE 5 | < 0.3 |
| 7707743 | OFFICE 6 | < 0.3 |
| 7707746 | OFFICE 7 | < 0.3 |
| 7707744 | OFFICE 8 | < 0.3 |
| 7707747 | OFFICE 8 | < 0.3 |
| 7707738 | OFFICE 9 GU9 | < 0.3 |
| 7707613 | PE OFFICE | < 0.3 |
| 7713818 | PRACTICE ROOM 1 | < 0.3 |
| 7707701 | PRINCIPAL | < 0.3 |
| 7707757 | REGISTRAR | < 0.3 |
| 7707731 | SECURITY | < 0.3 |
| 7707790 | SGA OFFICE | < 0.3 |
| 7707739 | SM11 | < 0.3 |
| 7707778 | SM14 | < 0.3 |
| 7707788 | SM15 | < 0.3 |
| 7707717 | SM3 | < 0.3 |
| 7707759 | SM5 ART | < 0.3 |
| 7707762 | SM6 | < 0.3 |
| 7707764 | SM7 ART | < 0.3 |
| 7711828 | SM8 | < 0.3 |
| 7713816 | SPEC ED OFFICE | < 0.3 |
| 7707715 | STAFF LOUNGE | < 0.3 |
| 7710187 | SU9 | < 0.3 |
| 7707708 | WORK ROOM GUID | < 0.3 |
| 7707727 | WORKROOM OFFICE | < 0.3 |

Table Note:

* Missing or Compromised Sample

| Radon Testing Results | | |
|---------------------------------------|-----------------|---------------|
| Magruder Hs | | |
| Test Period: 12/28/15-12/31/15 | | |
| Kit Number | QC Type | Result |
| 7707760 | D (A102) | < 0.3 |
| 7707709 | D (A103) | 1.1 |
| 7711868 | D (A105) | < 0.3 |
| 7711876 | D (AUDITORIUM) | < 0.3 |
| 7707780 | D (C121) | < 0.3 |
| 7707796 | D (CAFETERIA) | < 0.3 |
| 7707771 | D (D131) | < 0.3 |
| 7707706 | D (D135) | < 0.3 |
| 7707714 | D (HEALTH ROOM) | < 0.3 |
| 7710191 | D (KITCHEN) | < 0.3 |
| 7707751 | D (OFFICE 1) | < 0.3 |
| 7707612 | D (PE OFF.) | < 0.3 |
| 7713912 | D (SM8) | < 0.3 |
| 7711890 | FB (B111) | < 0.3 |
| 7711889 | FB (B112) | < 0.3 |
| 7707766 | FB (D128) | < 0.3 |
| 7707787 | FB (SM15) | < 0.3 |
| 7707713 | FB (SM3) | < 0.3 |
| 7707603 | OB (0) | < 0.3 |
| 7707637 | OB (0) | < 0.3 |

Table Note:

* Missing or Compromised Sample

ATTACHMENT C

Laboratory Analytical Results

January 16, 2016 **LABORATORY ANALYSIS REPORT ****

Radon test result report for:
MAGRUDER HS
MAIN

| Kit # | Room Id | Started | Ended | pCi/L | Analyzed |
|---------|------------------|-----------------------|-----------------------|-----------|------------|
| 7707603 | 0 | 2015-12-28 @ 8:00 pm | 2015-12-31 @ 12:00 pm | < 0.3 | 2016-01-05 |
| 7707637 | 0 | 2015-12-28 @ 8:00 pm | 2015-12-31 @ 12:00 pm | < 0.3 | 2016-01-05 |
| 7707763 | 1A104 | 2015-12-28 @ 10:00 am | 2015-12-31 @ 8:00 am | < 0.3 | 2016-01-05 |
| 7707756 | A100 | 2015-12-28 @ 9:00 am | 2015-12-31 @ 8:00 am | < 0.3 | 2016-01-05 |
| 7710186 | A101 | 2015-12-28 @ 1:00 pm | 2015-12-31 @ 8:00 am | < 0.3 | 2016-01-05 |
| 7711888 | A101 | 2015-12-28 @ 1:00 pm | 2015-12-31 @ 8:00 am | < 0.3 | 2016-01-05 |
| 7707760 | A102 | 2015-12-28 @ 9:00 am | 2015-12-31 @ 8:00 am | < 0.3 | 2016-01-05 |
| 7707761 | A102 | 2015-12-28 @ 9:00 am | 2015-12-31 @ 8:00 am | < 0.3 | 2016-01-05 |
| 7707709 | A103 | 2015-12-28 @ 10:00 am | 2015-12-31 @ 8:00 am | 1.1 ± 0.4 | 2016-01-05 |
| 7707710 | A103 | 2015-12-28 @ 10:00 am | 2015-12-31 @ 8:00 am | 0.7 ± 0.3 | 2016-01-05 |
| 7711868 | A105 | 2015-12-28 @ 1:00 pm | 2015-12-31 @ 9:00 am | < 0.3 | 2016-01-05 |
| 7713973 | A105 | 2015-12-28 @ 1:00 pm | 2015-12-31 @ 9:00 am | < 0.3 | 2016-01-05 |
| 7711806 | A106 | 2015-12-28 @ 1:00 pm | 2015-12-31 @ 9:00 am | < 0.3 | 2016-01-05 |
| 7707719 | A107 | 2015-12-28 @ 10:00 am | 2015-12-31 @ 9:00 am | < 0.3 | 2016-01-05 |
| 7707720 | A107A | 2015-12-28 @ 10:00 am | 2015-12-31 @ 9:00 am | < 0.3 | 2016-01-05 |
| 7707736 | A108 | 2015-12-28 @ 10:00 am | 2015-12-31 @ 9:00 am | < 0.3 | 2016-01-05 |
| 7707705 | A108A | 2015-12-28 @ 10:00 am | 2015-12-31 @ 9:00 am | < 0.3 | 2016-01-05 |
| 7707702 | ADMIN SECRETARY | 2015-12-28 @ 8:00 am | 2015-12-31 @ 8:00 am | < 0.3 | 2016-01-05 |
| 7707721 | ASSIST PRINC | 2015-12-28 @ 8:00 am | 2015-12-31 @ 8:00 am | < 0.3 | 2016-01-05 |
| 7707722 | ASSIST PRINC DAV | 2015-12-28 @ 9:00 am | 2015-12-31 @ 8:00 am | < 0.3 | 2016-01-05 |
| 7707725 | ASSIST PRINC SHE | 2015-12-28 @ 9:00 am | 2015-12-31 @ 8:00 am | < 0.3 | 2016-01-05 |
| 7711894 | ATHLETIC DIRECTO | 2015-12-28 @ 1:00 pm | 2015-12-31 @ 10:00 am | < 0.3 | 2016-01-05 |
| 7707726 | ATTENDANCE | 2015-12-28 @ 9:00 am | 2015-12-31 @ 8:00 am | < 0.3 | 2016-01-05 |
| 7711805 | AUDITORIUM | 2015-12-28 @ 1:00 pm | 2015-12-31 @ 8:00 am | 0.7 ± 0.3 | 2016-01-05 |
| 7711876 | AUDITORIUM | 2015-12-28 @ 1:00 pm | 2015-12-31 @ 8:00 am | < 0.3 | 2016-01-05 |
| 7713904 | AUDITORIUM | 2015-12-28 @ 1:00 pm | 2015-12-31 @ 8:00 am | < 0.3 | 2016-01-05 |
| 7707755 | B110 | 2015-12-28 @ 9:00 am | 2015-12-31 @ 8:00 am | < 0.3 | 2016-01-05 |
| 7707752 | B110 | 2015-12-28 @ 9:00 am | 2015-12-31 @ 8:00 am | 0.6 ± 0.3 | 2016-01-05 |
| 7707716 | B111 | 2015-12-28 @ 10:00 am | 2015-12-31 @ 8:00 am | < 0.3 | 2016-01-05 |
| 7711890 | B111 | 2015-12-28 @ 1:00 pm | 2015-12-31 @ 8:00 am | < 0.3 | 2016-01-05 |
| 7707718 | B111A | 2015-12-28 @ 10:00 am | 2015-12-31 @ 8:00 am | < 0.3 | 2016-01-05 |
| 7707703 | B112 | 2015-12-28 @ 10:00 am | 2015-12-31 @ 8:00 am | < 0.3 | 2016-01-05 |
| 7711889 | B112 | 2015-12-28 @ 1:00 pm | 2015-12-31 @ 8:00 am | < 0.3 | 2016-01-05 |
| 7707798 | B114 | 2015-12-28 @ 11:00 am | 2015-12-31 @ 10:00 am | < 0.3 | 2016-01-05 |
| 7707797 | B115 | 2015-12-28 @ 11:00 am | 2015-12-31 @ 10:00 am | < 0.3 | 2016-01-05 |
| 7711886 | B221 | 2015-12-28 @ 12:00 pm | 2015-12-31 @ 10:00 am | < 0.3 | 2016-01-05 |
| 7713812 | B222 | 2015-12-28 @ 12:00 pm | 2015-12-31 @ 10:00 am | < 0.3 | 2016-01-05 |

January 16, 2016
LABORATORY ANALYSIS REPORT **

Radon test result report for:
MAGRUDER HS
MAIN

| Kit # | Room Id | Started | Ended | pCi/L | Analyzed |
|---------|------------------|-----------------------|-----------------------|-----------|------------|
| 7713815 | B2234 | 2015-12-28 @ 12:00 pm | 2015-12-31 @ 10:00 am | < 0.3 | 2016-01-05 |
| 7710192 | B225 | 2015-12-28 @ 12:00 pm | 2015-12-31 @ 10:00 am | < 0.3 | 2016-01-05 |
| 7711810 | B226 | 2015-12-28 @ 12:00 pm | 2015-12-31 @ 10:00 am | < 0.3 | 2016-01-05 |
| 7711809 | B227 | 2015-12-28 @ 12:00 pm | 2015-12-31 @ 10:00 am | < 0.3 | 2016-01-05 |
| 7713826 | B229 | 2015-12-28 @ 12:00 pm | 2015-12-31 @ 10:00 am | < 0.3 | 2016-01-05 |
| 7713827 | B230 | 2015-12-28 @ 12:00 pm | 2015-12-31 @ 10:00 am | < 0.3 | 2016-01-05 |
| 7713909 | B233 | 2015-12-28 @ 12:00 pm | 2015-12-31 @ 10:00 am | < 0.3 | 2016-01-05 |
| 7711830 | B234 | 2015-12-28 @ 12:00 pm | 2015-12-31 @ 10:00 am | < 0.3 | 2016-01-05 |
| 7707741 | BACK GYM | 2015-12-28 @ 12:00 pm | 2015-12-31 @ 9:00 am | < 0.3 | 2016-01-05 |
| 7707748 | BACK GYM | 2015-12-28 @ 12:00 pm | 2015-12-31 @ 9:00 am | < 0.3 | 2016-01-05 |
| 7711804 | BOYS DEP OFFICE | 2015-12-28 @ 2:00 pm | 2015-12-31 @ 9:00 am | < 0.3 | 2016-01-05 |
| 7707784 | C116 | 2015-12-28 @ 11:00 am | 2015-12-31 @ 10:00 am | < 0.3 | 2016-01-05 |
| 7707782 | C117 | 2015-12-28 @ 11:00 am | 2015-12-31 @ 10:00 am | < 0.3 | 2016-01-05 |
| 7707781 | C117A | 2015-12-28 @ 11:00 am | 2015-12-31 @ 10:00 am | < 0.3 | 2016-01-05 |
| 7707783 | C118 | 2015-12-28 @ 11:00 am | 2015-12-31 @ 10:00 am | < 0.3 | 2016-01-05 |
| 7707794 | C118A | 2015-12-28 @ 11:00 am | 2015-12-31 @ 10:00 am | < 0.3 | 2016-01-05 |
| 7707789 | C119 | 2015-12-28 @ 11:00 am | 2015-12-31 @ 10:00 am | < 0.3 | 2016-01-05 |
| 7707791 | C119A | 2015-12-28 @ 11:00 am | 2015-12-31 @ 10:00 am | < 0.3 | 2016-01-05 |
| 7707779 | C120 | 2015-12-28 @ 11:00 am | 2015-12-31 @ 10:00 am | < 0.3 | 2016-01-05 |
| 7707777 | C121 | 2015-12-28 @ 11:00 am | 2015-12-31 @ 10:00 am | < 0.3 | 2016-01-05 |
| 7707780 | C121 | 2015-12-28 @ 11:00 am | 2015-12-31 @ 10:00 am | < 0.3 | 2016-01-05 |
| 7707785 | C122 | 2015-12-28 @ 11:00 am | 2015-12-31 @ 10:00 am | < 0.3 | 2016-01-05 |
| 7707786 | C123 | 2015-12-28 @ 11:00 am | 2015-12-31 @ 10:00 am | < 0.3 | 2016-01-05 |
| 7707776 | C124 | 2015-12-28 @ 11:00 am | 2015-12-31 @ 10:00 am | < 0.3 | 2016-01-05 |
| 7707775 | C125 | 2015-12-28 @ 11:00 am | 2015-12-31 @ 10:00 am | < 0.3 | 2016-01-05 |
| 7707772 | C125A | 2015-12-28 @ 11:00 am | 2015-12-31 @ 10:00 am | 0.6 ± 0.3 | 2016-01-05 |
| 7707704 | C126 | 2015-12-28 @ 10:00 am | 2015-12-31 @ 9:00 am | < 0.3 | 2016-01-05 |
| 7707796 | CAFETERIA | 2015-12-28 @ 11:00 am | 2015-12-31 @ 10:00 am | < 0.3 | 2016-01-05 |
| 7707792 | CAFETERIA | 2015-12-28 @ 11:00 am | 2015-12-31 @ 10:00 am | < 0.3 | 2016-01-05 |
| 7707795 | CAFETERIA | 2015-12-28 @ 11:00 am | 2015-12-31 @ 10:00 am | < 0.3 | 2016-01-05 |
| 7707735 | CAREER CENTER | 2015-12-28 @ 9:00 am | 2015-12-31 @ 8:00 am | < 0.3 | 2016-01-05 |
| 7707750 | CONF RM GUIDANCE | 2015-12-28 @ 9:00 am | 2015-12-31 @ 8:00 am | < 0.3 | 2016-01-05 |
| 7707733 | CONF ROOM PRIN | 2015-12-28 @ 9:00 am | 2015-12-31 @ 8:00 am | < 0.3 | 2016-01-05 |
| 7707724 | CONFERENCE ROOM | 2015-12-28 @ 9:00 am | 2015-12-31 @ 8:00 am | < 0.3 | 2016-01-05 |
| 7707740 | D127 | 2015-12-28 @ 10:00 am | 2015-12-31 @ 9:00 am | < 0.3 | 2016-01-05 |
| 7707765 | D128 | 2015-12-28 @ 10:00 am | 2015-12-31 @ 9:00 am | < 0.3 | 2016-01-05 |
| 7707766 | D128 | 2015-12-28 @ 11:00 am | 2015-12-31 @ 9:00 am | < 0.3 | 2016-01-05 |

January 16, 2016
LABORATORY ANALYSIS REPORT **

Radon test result report for:
MAGRUDER HS
MAIN

| Kit # | Room Id | Started | Ended | pCi/L | Analyzed |
|---------|----------------|-----------------------|-----------------------|-----------|------------|
| 7707773 | D129 | 2015-12-28 @ 11:00 am | 2015-12-31 @ 9:00 am | < 0.3 | 2016-01-05 |
| 7707774 | D130 | 2015-12-28 @ 11:00 am | 2015-12-31 @ 9:00 am | < 0.3 | 2016-01-05 |
| 7707768 | D131 | 2015-12-28 @ 11:00 am | 2015-12-31 @ 9:00 am | < 0.3 | 2016-01-05 |
| 7707771 | D131 | 2015-12-28 @ 11:00 am | 2015-12-31 @ 9:00 am | < 0.3 | 2016-01-05 |
| 7707769 | D132 | 2015-12-28 @ 11:00 am | 2015-12-31 @ 9:00 am | 1.1 ± 0.4 | 2016-01-05 |
| 7707770 | D133 | 2015-12-28 @ 11:00 am | 2015-12-31 @ 9:00 am | < 0.3 | 2016-01-05 |
| 7707767 | D134 | 2015-12-28 @ 11:00 am | 2015-12-31 @ 9:00 am | < 0.3 | 2016-01-05 |
| 7707728 | D135 | 2015-12-28 @ 10:00 am | 2015-12-31 @ 9:00 am | < 0.3 | 2016-01-05 |
| 7707706 | D135 | 2015-12-28 @ 10:00 am | 2015-12-31 @ 9:00 am | < 0.3 | 2016-01-05 |
| 7707729 | D136 | 2015-12-28 @ 10:00 am | 2015-12-31 @ 9:00 am | < 0.3 | 2016-01-05 |
| 7707730 | D137 | 2015-12-28 @ 10:00 am | 2015-12-31 @ 9:00 am | < 0.3 | 2016-01-05 |
| 7707732 | D138 | 2015-12-28 @ 10:00 am | 2015-12-31 @ 9:00 am | 1.2 ± 0.4 | 2016-01-05 |
| 7707711 | DARK ROOM | 2015-12-28 @ 10:00 am | 2015-12-31 @ 8:00 am | 1.2 ± 0.4 | 2016-01-05 |
| 7707734 | FINANCE 2 | 2015-12-28 @ 9:00 am | 2015-12-31 @ 8:00 am | < 0.3 | 2016-01-05 |
| 7707737 | FINANCE OFFICE | 2015-12-28 @ 9:00 am | 2015-12-31 @ 8:00 am | < 0.3 | 2016-01-05 |
| 7707754 | GUIDANCE | 2015-12-28 @ 9:00 am | 2015-12-31 @ 8:00 am | < 0.3 | 2016-01-05 |
| 7707799 | GYM | 2015-12-28 @ 12:00 pm | 2015-12-31 @ 9:00 am | 0.9 ± 0.4 | 2016-01-05 |
| 7707800 | GYM | 2015-12-28 @ 12:00 pm | 2015-12-31 @ 9:00 am | 1.0 ± 0.4 | 2016-01-05 |
| 7711887 | HEAD COACH RM | 2015-12-28 @ 2:00 pm | 2015-12-31 @ 9:00 am | 0.7 ± 0.4 | 2016-01-05 |
| 7711897 | HEAD COACH RM | 2015-12-28 @ 2:00 pm | 2015-12-31 @ 9:00 am | < 0.3 | 2016-01-05 |
| 7707712 | HEALTH OFFICE | 2015-12-28 @ 10:00 am | 2015-12-31 @ 8:00 am | < 0.3 | 2016-01-05 |
| 7707714 | HEALTH ROOM | 2015-12-28 @ 10:00 am | 2015-12-31 @ 8:00 am | < 0.3 | 2016-01-05 |
| 7707707 | HEALTH ROOM | 2015-12-28 @ 10:00 am | 2015-12-31 @ 8:00 am | < 0.3 | 2016-01-05 |
| 7710191 | KITCHEN | 2015-12-28 @ 1:00 pm | 2015-12-31 @ 10:00 am | < 0.3 | 2016-01-05 |
| 7711866 | KITCHEN | 2015-12-28 @ 1:00 pm | 2015-12-31 @ 10:00 am | < 0.3 | 2016-01-05 |
| 7713911 | KITCHEN | 2015-12-28 @ 1:00 pm | 2015-12-31 @ 10:00 am | < 0.3 | 2016-01-05 |
| 7707793 | KITCHEN | 2015-12-28 @ 11:00 am | 2015-12-31 @ 10:00 am | < 0.3 | 2016-01-05 |
| 7707616 | KITCHEN OFFICE | 2015-12-28 @ 2:00 pm | 2015-12-31 @ 10:00 am | < 0.3 | 2016-01-05 |
| 7711862 | KITCHEN OFFICE | 2015-12-28 @ 1:00 pm | 2015-12-31 @ 10:00 am | < 0.3 | 2016-01-05 |
| 7707723 | MAIN OFFICE | 2015-12-28 @ 9:00 am | 2015-12-31 @ 8:00 am | < 0.3 | 2016-01-05 |
| 7707615 | MAIN OFFICE | 2015-12-28 @ 2:00 pm | 2015-12-31 @ 8:00 am | < 0.3 | 2016-01-05 |
| 7711832 | MAKEUPNROOM | 2015-12-28 @ 1:00 pm | 2015-12-31 @ 8:00 am | 0.8 ± 0.4 | 2016-01-05 |
| 7707751 | OFFICE 1 | 2015-12-28 @ 9:00 am | 2015-12-31 @ 8:00 am | < 0.3 | 2016-01-05 |
| 7707753 | OFFICE 1 | 2015-12-28 @ 9:00 am | 2015-12-31 @ 8:00 am | 0.7 ± 0.3 | 2016-01-05 |
| 7707758 | OFFICE 2 | 2015-12-28 @ 9:00 am | 2015-12-31 @ 8:00 am | < 0.3 | 2016-01-05 |
| 7707745 | OFFICE 3 | 2015-12-28 @ 9:00 am | 2015-12-31 @ 8:00 am | < 0.3 | 2016-01-05 |
| 7707749 | OFFICE 4 | 2015-12-28 @ 9:00 am | 2015-12-31 @ 8:00 am | < 0.3 | 2016-01-05 |

January 16, 2016
**LABORATORY ANALYSIS
REPORT ****

Radon test result report for:
**MAGRUDER HS
MAIN**

| Kit # | Room Id | Started | Ended | pCi/L | Analyzed |
|---------|-----------------|-----------------------|-----------------------|-------|------------|
| 7713917 | OFFICE 4 | 2015-12-28 @ 12:00 pm | 2015-12-31 @ 10:00 am | < 0.3 | 2016-01-05 |
| 7707742 | OFFICE 5 | 2015-12-28 @ 9:00 am | 2015-12-31 @ 8:00 am | < 0.3 | 2016-01-05 |
| 7707743 | OFFICE 6 | 2015-12-28 @ 9:00 am | 2015-12-31 @ 8:00 am | < 0.3 | 2016-01-05 |
| 7707746 | OFFICE 7 | 2015-12-28 @ 9:00 am | 2015-12-31 @ 8:00 am | < 0.3 | 2016-01-05 |
| 7707744 | OFFICE 8 | 2015-12-28 @ 9:00 am | 2015-12-31 @ 8:00 am | < 0.3 | 2016-01-05 |
| 7707747 | OFFICE 8 | 2015-12-28 @ 9:00 am | 2015-12-31 @ 8:00 am | < 0.3 | 2016-01-05 |
| 7707738 | OFFICE 9 GU9 | 2015-12-28 @ 9:00 am | 2015-12-31 @ 8:00 am | < 0.3 | 2016-01-05 |
| 7707612 | PE OFF. | 2015-12-28 @ 2:00 pm | 2015-12-31 @ 11:00 am | < 0.3 | 2016-01-05 |
| 7707613 | PE OFFICE | 2015-12-28 @ 2:00 pm | 2015-12-31 @ 9:00 am | < 0.3 | 2016-01-05 |
| 7713818 | PRACTICE ROOM 1 | 2015-12-28 @ 1:00 pm | 2015-12-31 @ 9:00 am | < 0.3 | 2016-01-05 |
| 7707701 | PRINCIPAL | 2015-12-28 @ 8:00 am | 2015-12-31 @ 8:00 am | < 0.3 | 2016-01-05 |
| 7707757 | REGISTRAR | 2015-12-28 @ 9:00 am | 2015-12-31 @ 8:00 am | < 0.3 | 2016-01-05 |
| 7707731 | SECURITY | 2015-12-28 @ 9:00 am | 2015-12-31 @ 8:00 am | < 0.3 | 2016-01-05 |
| 7707790 | SGA OFFICE | 2015-12-28 @ 11:00 am | 2015-12-31 @ 10:00 am | < 0.3 | 2016-01-05 |
| 7707739 | SM11 | 2015-12-28 @ 10:00 am | 2015-12-31 @ 9:00 am | < 0.3 | 2016-01-05 |
| 7707778 | SM14 | 2015-12-28 @ 11:00 am | 2015-12-31 @ 10:00 am | < 0.3 | 2016-01-05 |
| 7707787 | SM15 | 2015-12-28 @ 11:00 am | 2015-12-31 @ 10:00 am | < 0.3 | 2016-01-05 |
| 7707788 | SM15 | 2015-12-28 @ 11:00 am | 2015-12-31 @ 10:00 am | < 0.3 | 2016-01-05 |
| 7707713 | SM3 | 2015-12-28 @ 10:00 am | 2015-12-31 @ 9:00 am | < 0.3 | 2016-01-05 |
| 7707717 | SM3 | 2015-12-28 @ 10:00 am | 2015-12-31 @ 8:00 am | < 0.3 | 2016-01-05 |
| 7707759 | SM5 ART | 2015-12-28 @ 9:00 am | 2015-12-31 @ 8:00 am | < 0.3 | 2016-01-05 |
| 7707762 | SM6 | 2015-12-28 @ 9:00 am | 2015-12-31 @ 8:00 am | < 0.3 | 2016-01-05 |
| 7707764 | SM7 ART | 2015-12-28 @ 10:00 am | 2015-12-31 @ 8:00 am | < 0.3 | 2016-01-05 |
| 7711828 | SM8 | 2015-12-28 @ 1:00 pm | 2015-12-31 @ 9:00 am | < 0.3 | 2016-01-05 |
| 7713912 | SM8 | 2015-12-28 @ 1:00 pm | 2015-12-31 @ 9:00 am | < 0.3 | 2016-01-05 |
| 7713816 | SPEC ED OFFICE | 2015-12-28 @ 12:00 pm | 2015-12-31 @ 10:00 am | < 0.3 | 2016-01-05 |
| 7707715 | STAFF LOUNGE | 2015-12-28 @ 10:00 am | 2015-12-31 @ 8:00 am | < 0.3 | 2016-01-05 |
| 7710187 | SU9 | 2015-12-28 @ 12:00 pm | 2015-12-31 @ 10:00 am | < 0.3 | 2016-01-05 |
| 7707708 | WORK ROOM GUID | 2015-12-28 @ 9:00 am | 2015-12-31 @ 8:00 am | < 0.3 | 2016-01-05 |
| 7707727 | WORKROOM OFFICE | 2015-12-28 @ 9:00 am | 2015-12-31 @ 8:00 am | < 0.3 | 2016-01-05 |

January 15, 2016
**** LABORATORY ANALYSIS REPORT ****

Radon test result report for:
**MCPS PHASE 3 & 4
TRANSIT BLANKS**

| Kit # | Room Id | Started | Ended | pCi/L | Analyzed |
|---------|------------|-----------------------|-----------------------|-------|------------|
| 7708218 | TRANSIT 4 | 2015-12-18 @ 12:00 pm | 2015-12-21 @ 12:00 pm | < 0.3 | 2015-12-23 |
| 7708200 | TRANSIT 1 | 2015-12-18 @ 12:00 pm | 2015-12-21 @ 12:00 pm | < 0.3 | 2015-12-23 |
| 7708190 | TRANSIT 10 | 2015-12-18 @ 12:00 pm | 2015-12-21 @ 12:00 pm | < 0.3 | 2015-12-23 |
| 7708189 | TRANSIT 11 | 2015-12-18 @ 12:00 pm | 2015-12-21 @ 12:00 pm | < 0.3 | 2015-12-23 |
| 7708191 | TRANSIT 12 | 2015-12-18 @ 12:00 pm | 2015-12-21 @ 12:00 pm | < 0.3 | 2015-12-23 |
| 7708188 | TRANSIT 13 | 2015-12-18 @ 12:00 pm | 2015-12-21 @ 12:00 pm | < 0.3 | 2015-12-23 |
| 7708197 | TRANSIT 14 | 2015-12-18 @ 12:00 pm | 2015-12-21 @ 12:00 pm | < 0.3 | 2015-12-23 |
| 7708186 | TRANSIT 15 | 2015-12-18 @ 12:00 pm | 2015-12-21 @ 12:00 pm | < 0.3 | 2015-12-23 |
| 7708185 | TRANSIT 16 | 2015-12-18 @ 12:00 pm | 2015-12-21 @ 12:00 pm | < 0.3 | 2015-12-23 |
| 7708184 | TRANSIT 17 | 2015-12-18 @ 12:00 pm | 2015-12-21 @ 12:00 pm | < 0.3 | 2015-12-23 |
| 7708182 | TRANSIT 18 | 2015-12-18 @ 12:00 pm | 2015-12-21 @ 12:00 pm | < 0.3 | 2015-12-23 |
| 7708187 | TRANSIT 18 | 2015-12-18 @ 12:00 pm | 2015-12-21 @ 12:00 pm | < 0.3 | 2015-12-23 |
| 7708199 | TRANSIT 2 | 2015-12-18 @ 12:00 pm | 2015-12-21 @ 12:00 pm | < 0.3 | 2015-12-23 |
| 7708181 | TRANSIT 20 | 2015-12-18 @ 12:00 pm | 2015-12-21 @ 12:00 pm | < 0.3 | 2015-12-23 |
| 7708180 | TRANSIT 21 | 2015-12-18 @ 12:00 pm | 2015-12-21 @ 12:00 pm | < 0.3 | 2015-12-23 |
| 7708183 | TRANSIT 22 | 2015-12-18 @ 12:00 pm | 2015-12-21 @ 12:00 pm | < 0.3 | 2015-12-23 |
| 7708178 | TRANSIT 23 | 2015-12-18 @ 12:00 pm | 2015-12-21 @ 12:00 pm | < 0.3 | 2015-12-23 |
| 7708179 | TRANSIT 24 | 2015-12-18 @ 12:00 pm | 2015-12-21 @ 12:00 pm | < 0.3 | 2015-12-23 |
| 7708177 | TRANSIT 25 | 2015-12-18 @ 12:00 pm | 2015-12-21 @ 12:00 pm | < 0.3 | 2015-12-23 |
| 7708176 | TRANSIT 26 | 2015-12-18 @ 12:00 pm | 2015-12-21 @ 12:00 pm | < 0.3 | 2015-12-23 |
| 7708174 | TRANSIT 27 | 2015-12-18 @ 12:00 pm | 2015-12-21 @ 12:00 pm | < 0.3 | 2015-12-23 |
| 7708173 | TRANSIT 28 | 2015-12-18 @ 12:00 pm | 2015-12-21 @ 12:00 pm | < 0.3 | 2015-12-23 |
| 7708175 | TRANSIT 29 | 2015-12-18 @ 12:00 pm | 2015-12-21 @ 12:00 pm | < 0.3 | 2015-12-23 |
| 7708198 | TRANSIT 3 | 2015-12-18 @ 12:00 pm | 2015-12-21 @ 12:00 pm | < 0.3 | 2015-12-23 |
| 7708172 | TRANSIT 30 | 2015-12-18 @ 12:00 pm | 2015-12-21 @ 12:00 pm | < 0.3 | 2015-12-23 |
| 7708194 | TRANSIT 5 | 2015-12-18 @ 12:00 pm | 2015-12-21 @ 12:00 pm | < 0.3 | 2015-12-23 |
| 7708196 | TRANSIT 6 | 2015-12-18 @ 12:00 pm | 2015-12-21 @ 12:00 pm | < 0.3 | 2015-12-23 |
| 7708193 | TRANSIT 7 | 2015-12-18 @ 12:00 pm | 2015-12-21 @ 12:00 pm | < 0.3 | 2015-12-23 |
| 7708192 | TRANSIT 8 | 2015-12-18 @ 12:00 pm | 2015-12-21 @ 12:00 pm | < 0.3 | 2015-12-23 |
| 7708195 | TRANSIT 9 | 2015-12-18 @ 12:00 pm | 2015-12-21 @ 12:00 pm | < 0.3 | 2015-12-23 |

December
23,
2015

**LABORATORY ANALYSIS
REPORT ****

Spike Sample Laboratory Results

Radon test result report for:

MCPS

| Kit # | Room Id | Started | Ended | pCi/L | Analyzed |
|--------------|----------------|----------------------|----------------------|--------------|-----------------|
| 7706380 | 101 | 2015-12-18 @ 9:00 am | 2015-12-21 @ 9:00 am | 25.2 | 2015-12-23 |
| 7706381 | 102 | 2015-12-18 @ 9:00 am | 2015-12-21 @ 9:00 am | 26.5 | 2015-12-23 |
| 7706208 | 103 | 2015-12-18 @ 9:00 am | 2015-12-21 @ 9:00 am | 27.7 | 2015-12-23 |
| 7705132 | 104 | 2015-12-18 @ 9:00 am | 2015-12-21 @ 9:00 am | 28.6 | 2015-12-23 |
| 7706366 | 105 | 2015-12-18 @ 9:00 am | 2015-12-21 @ 9:00 am | 26.5 | 2015-12-23 |
| 7706211 | 106 | 2015-12-18 @ 9:00 am | 2015-12-21 @ 9:00 am | 26.1 | 2015-12-23 |

Air Chek, Inc. 1936 Butler Bridge Rd, Mills River, NC 28759-3892 Phone: (828) 684-0893 Fax: (828) 684-8498

Note: Spike samples are test canisters that are deliberately exposed to a controlled high level of radon in a laboratory. They provide a quality control measure in the testing process and do NOT reflect radon levels in the building being tested.

EXPOSURE IN BOWSER-MORNER RADON CHAMBER

CLIENT KCI Technologies Inc. Job Number 173224

NOMINAL Conditions: Radon Conc 26.9 pCi/L Rel. Hum 49.6 % Temp. 69.9 F

Date Start: 12/18/15 Date Stop: 12/21/15 Date Start: _____ Date Stop: _____

Time Start: 0929 Time Stop: 0929 Time Start: _____ Time Stop: _____

Device No.'s: 7705132, 7706208, Device No.'s: _____

7706211, 7706366, _____

7706380, 7706381 _____

F3 Left

Date Start: _____ Date Stop: _____ Date Start: _____ Date Stop: _____

Time Start: _____ Time Stop: _____ Time Start: _____ Time Stop: _____

Device No.'s: _____ Device No.'s: _____

Date Start: _____ Date Stop: _____ Date Start: _____ Date Stop: _____

Time Start: _____ Time Stop: _____ Time Start: _____ Time Stop: _____

Device No.'s: _____ Device No.'s: _____

**Note: All times are in 24-hour (military) notation, Eastern Standard Time (EST)
Background = 7 µR/h Elevation = 820 ft**



Chain of Custody

Project Name: MCPS Radon Phase III

Name of Schools:

- | | | |
|-----------------------|-----------------------|-----------------------|
| 1. Burnt Mills ES | 13. Georgian Frost ES | 25. Northlake Center |
| 2. Burtonsville ES | 14. Germantown ES | 26. Olney ES |
| 3. Cedar Grove ES | 15. Goshen ES | 27. Rosa Parks MS |
| 4. Cloverly ES | 16. Greencastle ES | 28. Poolesville ES |
| 5. Cold Spring ES | 17. Greenwood ES | 29. Poolesville HS |
| 6. Damascus HS | 18. Lake Seneca ES | 30. Potomac ES |
| 7. Darnestown ES | 19. Laytonsville ES | 31. Rock Terrace HS |
| 8. Diamond ES | 20. Col. E. Brooke MS | 32. Rosemary Hills ES |
| 9. Charles R. Drew ES | 21. Luxmanor ES | 33. Carl Sandburg |
| 10. DuFief ES | 22. Magruder HS | 34. Sequoyah ES |
| 11. Thomas Edison HS | 23. Thur. Marshall ES | 35. Stedwick ES |
| 12. Robert Frost MS | 24. Monocacy ES | 36. Whetstone ES |

| | Date | Initials |
|----------------------------------|----------|----------|
| Radon Test Kits Deployed | 12/28/15 | JM |
| Radon Test Kits Sampled | 12/31/15 | JM |
| Radon Test Kits Shipped to Lab* | 12/31/15 | JM |
| Radon Test Kits Received by Lab* | 1/4/16 | JM |

*All samples sent to Air Check, Inc., 1936 Butler Bridge Road, Mills River, NC 28758