



March 26, 2019

ISD# 834
1875 Greely Street South
Stillwater, MN 55082
Attn: Mr. Tony Willger

RE: **Radon Sampling**
Site: **Stillwater Middle School**

Field Environmental Consulting, Inc. (FIELD ENVIRONMENTAL) appreciates the opportunity to provide results for radon monitoring conducted at Stillwater Middle School.

Radon levels are measured in picocuries per liter or pCi/L. The Environmental Protection Agency (EPA) and the Minnesota Department of Health (MDH) action level for indoor radon is 4.0 pCi/L.

Radon monitoring was conducted using AccuStar® PicoCan 275 short-term open face charcoal canisters (registered device #AC-6048).

In February 2019, one hundred and eleven (111) detectors were analyzed for radon concentration. One location, office in room 189W, had a radon level of 7.5 pCi/L which is above the action level of 4.0 pCi/L. All other spaces were below the action level.

MDH recommended that follow-up sampling occur for this room as a single test result should not be the basis for determining if a radon hazard exists or if corrective measures should be taken. Following protocols established by ANSI/AARST *Radon Mitigation Standards for Schools and Large Buildings*, an additional radon measurement for the office in room 189W was found at .6 pCi/L. Therefore, per MDH & EPA guidance, no further testing or mitigation is required for the office in room 189W.

PREPARED and REVIEWED BY:

Field Environmental Consulting, Inc.

Amy Weinzierl (CSP #27824)
EHS Manager / Licensed Radon Measurement Professional (RMEA-00111)
amy@fieldconsultinginc.com
952-746-5880

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 # 19036

Field Environmental Consulting, Inc.
8612 Eagle Creek Parkway
Savage MN 55378

Stillwater Middle School
523 Marsh Street W
Stillwater MN 55082

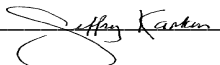
Log Number	Device Number	Test Exposure	Duration:	Area Tested	Result pCi/L
3219550	3945356	02/18/2019 9:10 am	02/21/2019 8:26 am	Floor LL 131 Custodian Coffee Area	0.7
3219551	3945422	02/18/2019 9:10 am	02/21/2019 8:26 am	Floor LL 131 Custodian Coffee Area Duplicate	0.9
3219552	3945443	02/18/2019 9:10 am	02/21/2019 8:26 am	Floor LL Room 135L Weight Drink Cooler	0.7
3219553	3945442	02/18/2019 9:10 am	02/21/2019 8:26 am	Floor LL Room 135L Weight Drink Cooler	< 0.4
3219554	3945161	02/18/2019 9:10 am	02/21/2019 8:26 am	Floor Lower Level Room Gym 1 West	3.0
3219555	3945162	02/18/2019 9:10 am	02/21/2019 8:26 am	Floor Lower Level Room Gym 1 East	1.5
3219556	3945164	02/18/2019 9:10 am	02/21/2019 8:26 am	Floor Lower Level Room Small Gym South Exit	< 0.4
3219557	3945391	02/18/2019 9:10 am	02/21/2019 8:26 am	Floor Lower Level Room Small Gym South Mat	0.7
3219558	3945341	02/18/2019 9:10 am	02/21/2019 8:26 am	Floor Lower Level Room Small Gym Mat Door	0.6
3219559	3945163	02/18/2019 9:35 am	02/21/2019 8:45 am	Floor Lower Level Room 100L Cardio VCR	0.5
3219560	3945423	02/18/2019 9:35 am	02/21/2019 8:45 am	Floor LL Room 108ML Cardio Behind Stereo	0.7


Comment: Several devices were listed on datasheet, but not received at lab. A copy of this report was emailed to Mailbox@fieldconsultinginc.com.

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Date Received: 02/26/2019 Date Logged: 02/26/2019 Date Analyzed: 02/27/2019 Date Reported: 02/28/2019

Report Reviewed By: 

Report Approved By: 

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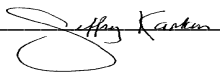
Log Number	Device Number	Test Exposure Duration:	Area Tested	Result pCi/L
3219561	3945165	02/18/2019 9:35 am 02/21/2019 8:45 am	Floor Lower Level Girls Locker Office Microwave	0.6
3219562	3945444	02/18/2019 9:35 am 02/21/2019 8:45 am	First Floor 187W Metals Shelf by M&M	0.4
3219563	3945171	02/18/2019 9:35 am 02/21/2019 8:45 am	First Floor 187W Metals Shelf by M&M Duplicate	0.6
3219564	3945187	02/18/2019 9:35 am 02/21/2019 8:45 am	First Floor Room 187W Office Metal Tall Cab	0.5
3219565	3945447	02/18/2019 9:35 am 02/21/2019 8:45 am	First Floor Room 186W Art Shelf Right Top	< 0.4
3219566	3945446	02/18/2019 9:35 am 02/21/2019 8:45 am	First Floor Room 186W Office Art Top Shelf	< 0.4
3219567	3945152	02/18/2019 9:35 am 02/21/2019 8:45 am	First Floor Room W182 Grey File Cabinet	1.5
3219568	3945173	02/18/2019 9:35 am 02/21/2019 8:45 am	First Floor Room W181 Tall Cabinet	0.9
3219569	3945365	02/18/2019 10:00 am 02/21/2019 9:00 am	First Floor Room 180AW Tall Cab Top	< 0.4
3219570	3945368	02/18/2019 10:00 am 02/21/2019 9:00 am	First Floor Room 178 Choir File Near Kleenex	1.0
3219571	3945364	02/18/2019 10:00 am 02/21/2019 9:00 am	First Floor Room 177 Band Shelf Drum	2.4

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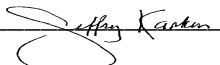
Log Number	Device Number	Test Exposure Duration:	Area Tested	Result pCi/L
3219572	3945449	02/18/2019 10:00 am 02/21/2019 9:00 am	First Floor Room 177 Band Office File Cab	2.3
3219573	3945367	02/18/2019 10:00 am 02/21/2019 9:00 am	First Floor Room 190 Speaker Near Ball	0.6
3219574	3945357	02/18/2019 10:00 am 02/21/2019 9:00 am	First Floor Room 190 Ensemble Phone	0.7
3219575	3945429	02/18/2019 10:00 am 02/21/2019 9:00 am	First Floor 102 Top Grey File Cab	1.5
3219576	3945428	02/18/2019 10:00 am 02/21/2019 9:00 am	First Floor 102 Top Grey File Cab Duplicate	1.3
3219577	3945183	02/18/2019 10:00 am 02/21/2019 9:00 am	First Floor Room 115 Black Cab	0.4
3219578	3945363	02/18/2019 10:00 am 02/21/2019 9:00 am	First Floor Room 115 Field Blank	< 0.4
3219579	3945348	02/18/2019 10:10 am 02/21/2019 9:15 am	First Floor Room 113 Middle Shelf Top	0.7
3219580	3945421	02/18/2019 10:10 am 02/21/2019 9:15 am	First Floor Room 112 Middle Shelf Top	< 0.4
3219581	3945155	02/18/2019 10:10 am 02/21/2019 9:15 am	First Floor Room 111 Shelf Near Flag	0.5
3219582	3945186	02/18/2019 10:10 am 02/21/2019 9:15 am	First Floor Room 111 Shelf Near Flag Duplicate	0.7


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Report Approved By: 

Shawn Price, Director of Laboratory Operations, AccuStar Labs

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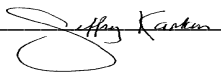
Log Number	Device Number	Test Exposure Duration:	Area Tested	Result pCi/L
3219583	3945185	02/18/2019 10:10 am 02/21/2019 9:15 am	First Floor Room 109 File Cab Right Black	0.9
3219584	3945395	02/18/2019 10:10 am 02/21/2019 9:15 am	First Floor Room 108 Small Shelf Left	0.5
3219585	3945188	02/18/2019 10:10 am 02/21/2019 9:15 am	First Floor Room 107 Shelf Right of Door	0.8
3219586	3945189	02/18/2019 10:10 am 02/21/2019 9:15 am	First Floor Room 106 Printer	0.5
3219587	3945181	02/18/2019 10:10 am 02/21/2019 9:15 am	First Floor Room 105 Grey File Cab Right	0.8
3219588	3945154	02/18/2019 10:10 am 02/21/2019 9:15 am	First Floor Room 105 Grey File Cab Field Blank	0.4
3219589	3945177	02/18/2019 10:30 am 02/21/2019 9:30 am	First Floor Room 104E Tall Cab Back Rm	1.2
3219590	3945175	02/18/2019 10:30 am 02/21/2019 9:30 am	First Floor Room 163E Tall File Cab	0.5
3219591	3945425	02/18/2019 10:30 am 02/21/2019 9:30 am	First Floor Room 163E Tall File Cab Duplicate	0.8
3219592	3945354	02/18/2019 10:30 am 02/21/2019 9:30 am	First Floor Room 120E File Cab	1.0
3219593	3945179	02/18/2019 10:30 am 02/21/2019 9:30 am	First Floor Room 122E Fridge Top	1.1

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3219594	3945169	02/18/2019 10:30 am	02/21/2019 9:30 am	First Floor Room 124E Top Cab Shelf	1.1
3219595	3945331	02/18/2019 10:30 am	02/21/2019 9:30 am	First Floor Room 126E File Cab Shelf	0.8
3219596	3945342	02/18/2019 10:30 am	02/21/2019 9:30 am	First Floor Room 125E Teacher Cart	0.4
3219597	3945170	02/18/2019 10:30 am	02/21/2019 9:30 am	First Floor Room 132E Black Shelf Trophy	0.9
3219598	3945340	02/18/2019 10:30 am	02/21/2019 9:30 am	First Floor Room 133E Under Brochures	0.9
3219599	3945427	02/18/2019 10:00 am	02/21/2019 8:30 am	First Floor Room 101 S Office Shelf Staff Desk	1.2
3219600	3945167	02/18/2019 10:00 am	02/21/2019 8:30 am	First Floor Room 114 S Coffee Maker	0.6
3219601	3945182	02/18/2019 10:00 am	02/21/2019 8:30 am	First Floor Room 110 S Tall Shelf E Side	0.9
3219602	3945174	02/18/2019 10:00 am	02/21/2019 8:30 am	First Floor Room 110 S Tall Shelf E Side Duplicate	0.8
3219603	3945176	02/18/2019 10:00 am	02/21/2019 8:30 am	First Floor Room Auditorium NE Side	1.2
3219604	3945184	02/18/2019 10:00 am	02/21/2019 8:30 am	First Floor Room Auditorium NW Side	0.8

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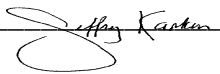
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3219605	3945430	02/18/2019 10:00 am	02/21/2019 8:30 am	First Floor Room 103 S Shelf Under TV	0.8
3219606	3945190	02/18/2019 10:00 am	02/21/2019 8:30 am	First Flr Rm 100 M Media Center N Side Bookshelf	2.8
3219607	3945178	02/18/2019 10:00 am	02/21/2019 8:30 am	First Flr Rm 100 M Media Center S Side Bookshelf	3.7
3219608	3945180	02/18/2019 10:00 am	02/21/2019 8:30 am	First Floor Room Main Office N Side Cab	1.7
3219609	3945351	02/18/2019 11:00 am	02/21/2019 9:45 am	First Floor Room 134 Phone	1.2
3219610	3945360	02/18/2019 11:00 am	02/21/2019 9:45 am	First Floor Room 138 File Cab Near Hood	1.3
3219611	3945353	02/18/2019 11:00 am	02/21/2019 9:45 am	First Floor Room 139 Mug Near Shelf	0.9
3219612	3945346	02/18/2019 11:00 am	02/21/2019 9:45 am	First Floor Room 141A Shelf Near Desk	0.6
3219613	3945334	02/18/2019 11:00 am	02/21/2019 9:45 am	First Floor Room 141C Top Shelf	0.7
3219614	3945337	02/18/2019 11:00 am	02/21/2019 9:45 am	First Floor Room 141F Top Shelf	1.2
3219615	3945361	02/18/2019 11:00 am	02/21/2019 9:45 am	First Floor Room 141H Top Brown Shelf	0.5

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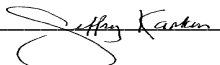
Log Number	Device Number	Test Exposure	Duration:	Area Tested	Result pCi/L
3219616	3945332	02/18/2019 11:00 am	02/21/2019 9:45 am	First Floor Room 146 Ampliphier	1.1
3219617	3944866	02/18/2019 11:00 am	02/21/2019 9:45 am	First Floor Room 150 Built in Shelf	0.7
3219618	3945441	02/18/2019 9:00 am	02/21/2019 9:00 am	Flr LL Rm Boys Locker Office Shelf by TV	0.9
3219619	3945445	02/18/2019 9:10 am	02/21/2019 9:00 am	First Floor Room W188 Tall Cabinet	1.5
3219620	3945355	02/18/2019 9:10 am	02/21/2019 9:00 am	First Floor Room Cafeteria NE Side	0.8
3219621	3945172	02/18/2019 9:10 am	02/21/2019 9:00 am	First Floor Room Cafeteria SE Side	0.7
3219622	3945370	02/18/2019 9:10 am	02/21/2019 9:00 am	First Floor Room 180W Top S Tall Cab	0.5
3219623	3945369	02/18/2019 9:10 am	02/21/2019 9:00 am	First Floor Room 179W Tall Cabinet by Desk	0.7
3219624	3945448	02/18/2019 9:10 am	02/21/2019 9:00 am	First Floor Room 169W Office	0.9
3219625	3945366	02/18/2019 9:10 am	02/21/2019 9:00 am	First Floor 189W Top Cabinet S Wall	0.6
3219626	3945450	02/18/2019 9:10 am	02/21/2019 9:00 am	First Floor 189W Top Cabinet S Wall Duplicate	0.8


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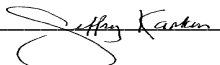
Log Number	Device Number	Test Exposure Duration:		Area Tested	Result pCi/L
3219627	3945362	02/18/2019 9:10 am	02/21/2019 9:00 am	First Floor Room 189W Office Top Shelf	7.5
3219628	3945426	02/18/2019 11:00 am	02/21/2019 9:45 am	First Floor Room 119E Tall Cabinet	2.1
3219629	3945424	02/18/2019 11:00 am	02/21/2019 9:45 am	First Floor Room 121E Top Bookshelf	1.3
3219630	3945338	02/18/2019 11:00 am	02/21/2019 9:45 am	First Floor Room 123E Bookshelf N Wall	0.6
3219631	3945336	02/18/2019 11:00 am	02/21/2019 9:45 am	First Floor Room 131E Shelf W Side	1.0
3219632	3945358	02/18/2019 11:00 am	02/21/2019 9:45 am	First Floor Room 135E Shelf W Side	3.3
3219633	3945168	02/18/2019 11:00 am	02/21/2019 9:45 am	First Floor Room 137E Shelf NW Side	1.1
3219634	3945339	02/18/2019 11:00 am	02/21/2019 9:45 am	First Floor Room 142E Top Cabinet S Wall	1.2
3219635	3945352	02/18/2019 11:00 am	02/21/2019 9:45 am	First Floor Room 145E Top Cab N Wall	2.0
3219636	3945151	02/18/2019 11:00 am	02/21/2019 9:45 am	First Floor Room 147E Cab S Wall	1.6
3219637	3944868	02/18/2019 11:00 am	02/21/2019 9:45 am	First Floor Room 148E Cab SW Side	0.6


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Test Performed By: Amy Weinzierl Certification Number: RMEA-00111

Distributed by: Field Environmental Consulting, Inc.

Date Received: 02/26/2019 Date Logged: 02/26/2019 Date Analyzed: 02/27/2019 Date Reported: 02/28/2019

Report Reviewed By: 

Report Approved By: 

Disclaimer:

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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 # 19036

Field Environmental Consulting, Inc.
8612 Eagle Creek Parkway
Savage MN 55378

Stillwater Middle School
523 Marsh Street W
Stillwater MN 55082

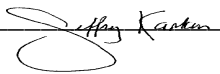
Log Number	Device Number	Test Exposure	Duration:	Area Tested	Result pCi/L
3219638	3944869	02/18/2019 11:00 am	02/21/2019 10:00 am	First Floor Room 154E Cabinet W Side	0.8
3219639	3945359	02/18/2019 11:00 am	02/21/2019 10:00 am	First Floor Room 160E Shelf N Side	0.9
3219640	3944870	02/18/2019 11:00 am	02/21/2019 10:00 am	First Floor Room 152E Built in Shelf	1.3
3219641	3944867	02/18/2019 11:00 am	02/21/2019 10:00 am	First Floor Room 158E Tall Cab Top	0.9
3219642	3945153	02/18/2019 11:00 am	02/21/2019 10:00 am	First Floor Room 162E Built in Shelf	0.5
3219643	3930784	02/18/2019 2:00 pm	02/21/2019 10:00 am	First Floor Room 161E N Built in Shelf	1.3
3219644	3931207	02/18/2019 2:00 pm	02/21/2019 10:00 am	First Floor Room 159E N Built in Shelf	2.8
3219645	3941451	02/18/2019 2:00 pm	02/21/2019 10:00 am	First Floor Room 157E Staff Lounge W Bookshelf	1.4
3219646	3941706	02/18/2019 2:00 pm	02/21/2019 10:00 am	First Floor Room 127E High Cab E Side	0.6
3219647	3930804	02/18/2019 2:00 pm	02/21/2019 10:00 am	First Floor Room 151E Cab S Wall	1.6
3219648	3931208	02/18/2019 2:30 pm	02/21/2019 10:10 am	First Floor Room 129E SW Corner TV	1.0

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Test Performed By: Amy Weinzierl Certification Number: RMEA-00111

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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 # 19036

Field Environmental Consulting, Inc.
8612 Eagle Creek Parkway
Savage MN 55378

Stillwater Middle School
523 Marsh Street W
Stillwater MN 55082

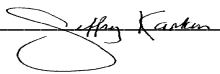
Log Number	Device Number	Test Exposure	Duration:	Area Tested	Result pCi/L
3219649	3941691	02/18/2019 2:30 pm	02/21/2019 10:10 am	First Floor Room 130E NW Corner TV Shelf	0.6
3219650	3803119	02/18/2019 2:30 pm	02/21/2019 10:10 am	First Floor Room Main Office Megan Prom Office	0.8
3219651	3802753	02/18/2019 2:30 pm	02/21/2019 10:10 am	First Floor Room Main Office Traci Cox Office	0.9
3219652	3802798	02/18/2019 2:30 pm	02/21/2019 10:10 am	First Floor Room Main Office Jeana Kirdan Office	0.6
3219653	3802759	02/18/2019 2:30 pm	02/21/2019 10:10 am	First Floor Room Main Office Emily May Office	0.7
3219654	3802781	02/18/2019 2:30 pm	02/21/2019 10:10 am	First Floor Room Main Office Gina Doe	0.4
3219655	3802783	02/18/2019 2:30 pm	02/21/2019 10:10 am	First Floor Room Main Office Eric Van Scoy	0.7
3219656	3931413	02/18/2019 2:30 pm	02/21/2019 10:10 am	First Floor Room Main Office Ralph Halverson	0.6
3219657	3941707	02/18/2019 2:30 pm	02/21/2019 10:10 am	First Floor Room Main Office Alicia Wohlers	0.6
3219658	3802799	02/18/2019 3:00 pm	02/21/2019 10:30 am	First Floor Room Main Office Keri Kelcher	0.6
3219659	3802797	02/18/2019 3:00 pm	02/21/2019 10:30 am	First Flr Health Office Off Main Refridge	0.7

Comment: Several devices were listed on datasheet, but not received at lab. A copy of this report was emailed to Mailbox@fieldconsultinginc.com.

Test Performed By: Amy Weinzierl Certification Number: RMEA-00111

Distributed by: Field Environmental Consulting, Inc.

Date Received: 02/26/2019 Date Logged: 02/26/2019 Date Analyzed: 02/27/2019 Date Reported: 02/28/2019

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NRPP 105011 AL
NRSB ARL0007

EPA Method #402-R-92-004
Charcoal Canister
NRPP Device Code 6048
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Laboratory Report for:

Property Tested: Project # 19036

Field Environmental Consulting, Inc.
8612 Eagle Creek Parkway
Savage MN 55378

Stillwater Middle School
523 Marsh Street W
Stillwater MN 55082

Log Number	Device Number	Test Exposure Duration:	Area Tested	Result pCi/L
3219660	3802800	02/18/2019 3:00 pm 02/21/2019 10:30 am	First Flr Health Office Off Main Refridge Duplicate	1.0

Comment: Several devices were listed on datasheet, but not received at lab. A copy of this report was emailed to Mailbox@fieldconsultinginc.com.

Test Performed By: Amy Weinzierl Certification Number: RMEA-00111

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< RADON TEST REPORT >

I/D Stillwater Middle Room 189W
Office

START DATE 3/05/19

START TIME 15:38

OPERATOR _____

SERIAL NO.- CRM5106122
C/F (CPM/pCi/l) .357
BKG (pCi/l) .9

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

1	.5	15	28.6	65
2	1.0	16	28.6	67
3	.5	16	28.5	67
4	.1	17	28.6	68
5	1.1	16	28.6	67
6	.4	14	28.7	66
7	.5	13	28.6	65
8	.6	12	28.6	64
9	.0	12	28.6	63
10	.1	12	28.6	62
11	.4	11	28.6	61
12	.4	12	28.6	61
13	.5	12	28.6	61
14	.9	11	28.5	60

15	.9	11	28.5	59
16	.5	11	28.3	60
17	.5	14	28.6	65
18	.5	15	28.6	66
19	.5	15	28.6	66
20	.6	14	28.5	67
21	1.4	14	28.6	67
22	1.1	13	28.6	67
23	.7	14	28.6	68
24	.6	14	28.5	69
25	.8	15	28.5	69
26	.4	17	28.5	69
27	.8	18	28.5	68
28	.5	19	28.6	68
29	.5	18	28.6	68
30	.1	17	28.6	67
31	.3	16	28.6	66
32	.4	14	28.7	65
33	.4	13	28.6	64
34	.0	12	28.6	64
35	1.0	12	28.6	63
36	1.0	12	28.7	63
37	.5	11	28.7	62
38	.3	11	28.7	61
39	.9	10	28.7	61
40	.9	10	28.7	61
41	1.1	13	28.7	65
42	.6	15	28.7	66
43	.3	16	28.6	67
44	.6	14	28.7	67
45	.2	13	28.7	67
46	.3	13	28.7	67
47	.9	13	28.7	68
48	.2	14	28.6	69

Elapsed Time (min.) 2880
 Total Count 1551
 Avg. (pCi/l) .6
 =====

Stillwater Middle School
 Lower Level
 Short-Term Radon Monitoring
 Project #19036



Short-Term Radon (February 2019)

- ◆ Radon < 4 pCi/L
- ◆ Radon ≥ 4 pCi/L
- ◆ Missing/Lost Detector
- D** Duplicate Detector
- FB** Field Blank Detector

