ENVIRONMENTAL WORKS | JOB DONE RIGHT.
22820 NE Sandy Blvd Fairview, OR 97024
503-719-6715 | info@eworksnw.com
eworksnw.com

May 1, 2025

Comprehensive Radon Survey Report – Schools/Commercial Properties
Stayton High
757 W Locust St
Stayton, OREGON 97383

Environmental Works is a licensed, bonded, and insured general contractor (CCB# 185781; WA# ENVIRWN906CS) and is certified by NEHA-NRPP (National Environmental Health Association- National Radon Proficiency Program #112037 RT) as a radon measurement and mitigation contractor. The following scope of work is to conduct a survey to determine the post-construction radon levels in the above referenced property and offer additional mitigation technique(s), if needed, to achieve radon levels below the EPA (Environmental Protection Agency) recommended Action Level of 4.0 pCi/L or WHO (World Health Organization) recommended Action Level of 2.7 pCi/L. This survey does not address radon levels generated from out-gassing from well water or building materials.

Test Methods:

1. All radon testing methods presented in this agreement are based upon and in compliance with the American Association of Radon Scientists and Technologists, Protocol for Conducting Measurements of Radon and Radon Decay Products in Multifamily, School, Commercial and Mixed-Use Buildings (**ANSI/AARST MA-MFLB-2023).**

2. All testing and mitigation protocols are performed under the supervision of a Radon Professional that is certified by the American Association of Radon Scientists and Technologists (AARST) National Environmental Health Association and National Radon Proficiency Program (NRPP), License **NEHA-NRPP # 112037 RT**.

3. Analysis assumes the client/residents were provided with an **Attention Notice** prior to conducting the radon survey. This notice described the **"Closed Building Conditions"** required prior to and for the duration of the radon survey. Environmental Works posted notices at the time of test drop-offs, which were left in place or with residents for the duration of testing.

4. Radon test kits were deployed by **Nathan Strassmaier & Will Hotchkiss** on **4/11/2025** and retrieved on **4/13/2025**, for approximately **48 hours** of continuous radon measurement.

5. 1 Short-Term activated charcoal kits were deployed in each selected room, totaling **47 total test kits** deployed in **47 total test locations.**

6. **2 Field Blank, 2 Office Blank, & 2 Lab Blank** were deployed to detect batch contamination.

7. **1 Spike** was conducted to test for laboratory analysis accuracy.

8. **1 Continuous Radon Monitors (CRM)** were deployed to track hourly variations of radon gas.

9. Charcoal test kits were provided and analyzed by AirChek Inc. RSSI Lab (NEHA Lab ID: 101138 AL)

10. Charcoal test kits were sent to the AirChek lab via UPS Next or Second Day Air service.

11. Statement of Test Limitations: There is some uncertainty with any measurement result due to statistical variations and other factors such as daily and seasonal variations in radon concentrations. Variations may be due to changes in the weather, operation of the dwelling, or possible interference with the necessary test conditions.

Table 1: Extended Testing Protocol Radon Test Results (Full Analysis)

Device Serial #	Test Location	Floor	Floor	Radon (pCi/L)
11967297		ATHLETICS REGISTER OFFICE	1	0.3
11967298		MAIN OFFICE	1	0.7
11967299		PRINCIPAL OFFICE	1	0.7
11967300		COUNSELING OFFICE	1	1.3
11967280	STAYTON HS MAIN BUILDING	STAFF ROOM	1	0.3
11967251	STAYTON HS MAIN BUILDING	CHOIR ROOM	1	0.7
11967252	STAYTON HS MAIN BUILDING	CHOIR ROOM OFFICE	1	0.7
11967279	STAYTON HS MAIN BUILDING	LIBRARY	1	0.3
11967295	STAYTON HS MAIN BUILDING	102 & 100	1	0.3
11967292	STAYTON HS MAIN BUILDING	105A	1	0.3
11967291	STAYTON HS MAIN BUILDING	105B	1	0.3
11967250	STAYTON HS MAIN BUILDING	118 BAND CLASSROOM	1	1
11967296	STAYTON HS MAIN BUILDING	101	1	0.3
11967294	STAYTON HS MAIN BUILDING	103	1	0.8
11967293	STAYTON HS MAIN BUILDING	104	1	0.3
11967290	STAYTON HS MAIN BUILDING	106	1	0.3
11967289	STAYTON HS MAIN BUILDING	107	1	0.3
11967285	STAYTON HS MAIN BUILDING	108	1	0.3
11967288	STAYTON HS MAIN BUILDING	109	1	0.3
11967286	STAYTON HS MAIN BUILDING	110	1	0.3
11967282	STAYTON HS MAIN BUILDING	112	1	0.3
11967281	STAYTON HS MAIN BUILDING	113	1	0.6
11967255	STAYTON HS MAIN BUILDING	114	1	0.5
11967254	STAYTON HS MAIN BUILDING	115	1	0.7
11967253	STAYTON HS MAIN BUILDING	116	1	0.3
11967256	STAYTON HS MAIN BUILDING	119	1	0.3
11967284	STAYTON HS MAIN BUILDING	201	2	0.3
11967283	STAYTON HS MAIN BUILDING	205	2	0.3
11967249	STAYTON HS MAIN BUILDING	602	1	0.3
11967248	STAYTON HS MAIN BUILDING	603	1	0.8

11967247	STAYTON HS MAIN BUILDING	604	1	1.3
12034501	Annex 400	400	1	2
12034502	Annex 400	401	1	1
12034503	Annex 400	402	1	1.3
12034504	Annex 400	403	1	0.6
12034505	Annex 400	404	1	0.9
12034506	Annex 400	405	1	1.1
12034507	Annex 400	406	1	0.6
12034509	Annex 400	407	1	1.4
12034508	Annex 400	408	1	0.8
12034513	Annex 500	500	1	0.3
12034512	Annex 500	502	1	0.3
12034511	Annex 500	503	1	0.3
12034510	Annex 500	504	1	0.3
11967246	MOBILS	605	1	0.3
11967245	MOBILS	606	1	0.3
11967243	MOBILS	607	1	0.3
11967244	MOBILS	608	1	0.3
CRM	OFFICE		1	1.5

Table 2: QA / QC Blanks

Device Serial #	Room or Unit	Floor Level	Radon (pCi/L)
11967235	LAB BLANK	1	0.3
11967236	LAB BLANK	1	0.3
11967238	OFFICE BLANK	1	0.3
11967232	OFFICE BLANK	1	0.3
11967230	FIELD BLANK	1	0.3
11967234	FIELD BLANK	1	0.3

*Blanks should not test higher than the laboratories Lower Limit of Detection (LLD), typically < 0.3 pCi/L

Table 3: QA / QC Spikes: Bowser Morner Radon Lab

Device Serial #	Test Type (AC, AT, CRM)	Measured Value (pCi/L)	Chamber Value (pCi/L)	RPE
11967301	AC	30.6	25.9	18.1

*RPE should not exceed 30% as the upper limit

Figure 1A: Radon Inspection Report – CRM Parameters (Test Location – High School – Office)

Test Checklist

- ☑ The location of the detector was selected so the detector was not to be disturbed during testing.
- ☑ The monitor was not placed in an area of high humidity such as: Kitchen, laundry room, cellar, spa room, garage, crawl space or sump area.
- ☑ The detector was not located near drafts caused by HVAC vents, windows and doors.
- ☑ Whole house fans were turned off during the testing.
- ☑ The detector was not placed near areas of excessive heat, such as a fireplace or in direct sunlight.
- ☑ Portable window fans were removed or sealed in place prior to testing.
- ☑ The detector was placed within the breathing zone of at least 20 inches to 6 feet above the floor and at least 1 foot below the ceiling if suspended.
- ☑ Window air conditioners were operable in recirculation mode only.
- ☑ The detector was not placed within 1 foot of outside walls of the home or within 3 feet of any windows or doors to the exterior of the home.
- ☑ Ceiling fans, portable dehumidifiers, portable humidifiers, portable air filters, and all window air conditioners are not operated within 20 feet of the detector.

Figure 2A: Radon Inspection Report – CRM Data (Test Location – High School – Office)

Radon Inspection Report

Test Location:
Stayton High
757 W Locust St
Stayton, OREGON 97383

Test For:
Stayton High
757 W Locust St
Stayton, OREGON 97383

Inspected By:
Nathan Strassmaier
22820 NE Sandy Blvd
Fairview, OR 97024
503-719-6715

Bldg. Type: Educational

Type: Pre-Mitigation

Test Result: Pass

Overall Average: 1.5 pCi/l

EPA Average: 1.6 pCi/l

Test Device Details:

Serial Number:	85127059
Model Number:	1028
Last Calibration:	11/27/2024
Next Calibration:	11/27/2025
Cal-Factors:	2.54
Motion Error:	No

Test Site Condition:

Test Summary:

CRM Location:	Start:	Stop:	Interval:	Duration:
Counseling Office	04/11/2025 10:22 AM	04/13/2025 09:22 AM	1 hr	47 hr

*First 4 hrs of data excluded	Min:	Max:	Average:	Measurement Units:
Radon Concentration:	0.0	4.7	1.6	pCi/l

Figure 3A: Radon Inspection Report – CRM Chart (Test Location – High School – Office)

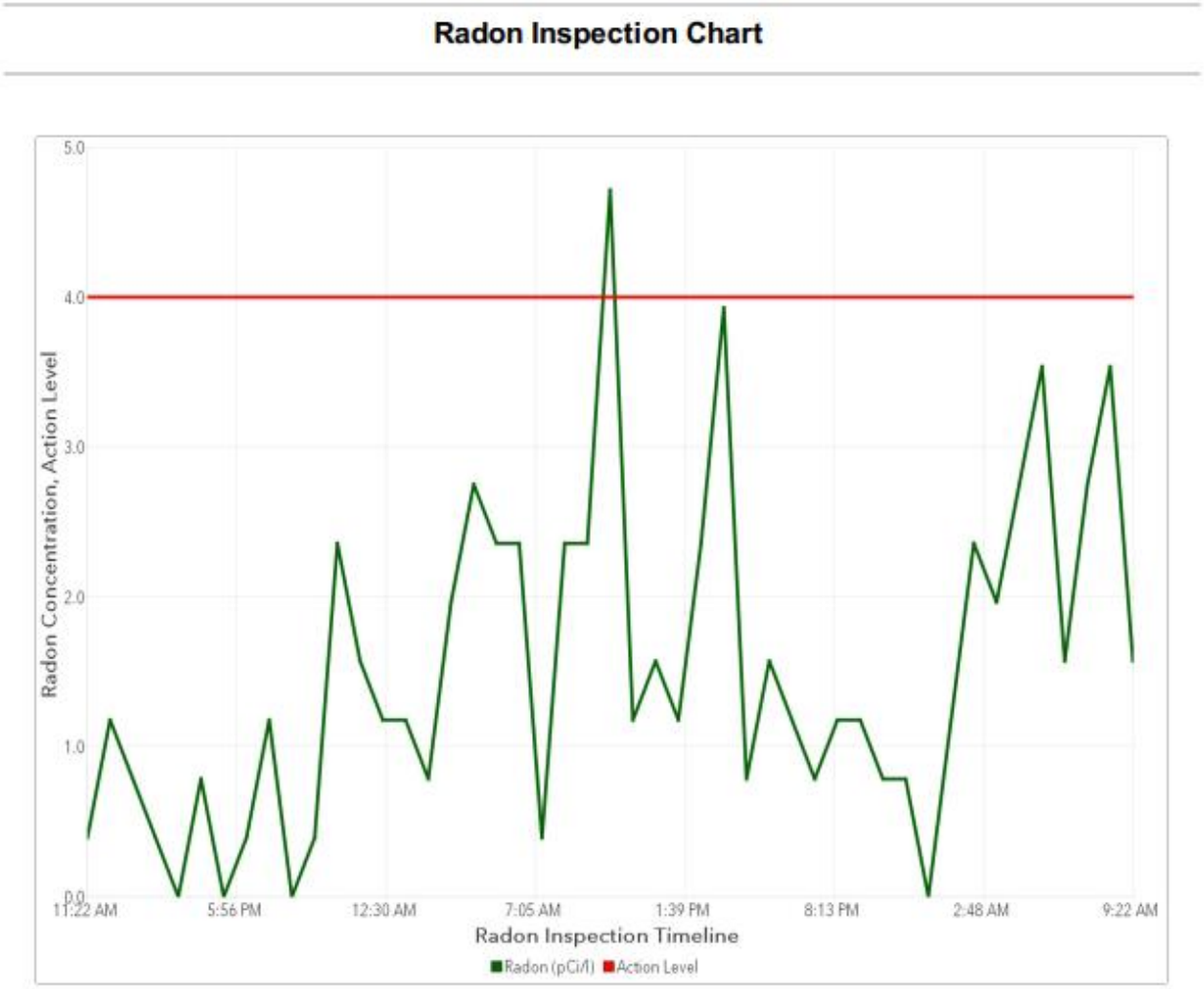

Figure 1A: Radon Inspection Report – CRM Data (Test Location – High School – Office)

Test Table

* Data from first 4 hours excluded from EPA calculations

Date/Time	Radon(pCi/l)	Flags
04/11/25 11:22 AM	0.4	-
04/11/25 12:22 PM	1.2	-
04/11/25 01:22 PM	0.8	-
04/11/25 02:22 PM	0.4	-
04/11/25 03:22 PM	0.0	-
04/11/25 04:22 PM	0.8	-
04/11/25 05:22 PM	0.0	-
04/11/25 06:22 PM	0.4	-
04/11/25 07:22 PM	1.2	-
04/11/25 08:22 PM	0.0	-
04/11/25 09:22 PM	0.4	-
04/11/25 10:22 PM	2.4	-
04/11/25 11:22 PM	1.6	-
04/12/25 12:22 AM	1.2	-
04/12/25 01:22 AM	1.2	-
04/12/25 02:22 AM	0.8	-
04/12/25 03:22 AM	2.0	-
04/12/25 04:22 AM	2.8	-
04/12/25 05:22 AM	2.4	-
04/12/25 06:22 AM	2.4	-
04/12/25 07:22 AM	0.4	-
04/12/25 08:22 AM	2.4	-
04/12/25 09:22 AM	2.4	-
04/12/25 10:22 AM	4.7	-
04/12/25 11:22 AM	1.2	-
04/12/25 12:22 PM	1.6	-
04/12/25 01:22 PM	1.2	-
04/12/25 02:22 PM	2.4	-
04/12/25 03:22 PM	3.9	-
04/12/25 04:22 PM	0.8	-
04/12/25 05:22 PM	1.6	-
04/12/25 06:22 PM	1.2	-
04/12/25 07:22 PM	0.8	-
04/12/25 08:22 PM	1.2	-
04/12/25 09:22 PM	1.2	-
04/12/25 10:22 PM	0.8	-
04/12/25 11:22 PM	0.8	-
04/13/25 12:22 AM	0.0	-
04/13/25 01:22 AM	1.2	-
04/13/25 02:22 AM	2.4	-
04/13/25 03:22 AM	2.0	-
04/13/25 04:22 AM	2.8	-
04/13/25 05:22 AM	3.5	-
04/13/25 06:22 AM	1.6	-
04/13/25 07:22 AM	2.8	-
04/13/25 08:22 AM	3.5	-
04/13/25 09:22 AM	1.6	-

Radon Survey Report Summary:

1. Quality control measures indicate no error in laboratory analysis or batch contamination.

2. “Closed House Conditions” were sufficiently adhered to during the test based on observations during test drop-off and retrieval.

3. **MITIGATION NOT RECOMMENDED**: Mitigation is not recommended at this time based on the test results not exceeding the WHO recommended radon threshold of 2.7 pCi/L.

4. **RETESTING:** Retesting is recommended by the EPA every two years or following any major structural or mechanical changes.