

# Limited Lead-Based Paint Survey

**Site:**

Porter County Education Services  
Special Education Learning Facility  
750 Ransom Road  
Valparaiso, IN 46385

**Prepared For:**

Mr. Matthew Kastl, Director of Facilities  
Porter County Education Services  
750 Ransom Road  
Valparaiso, IN 46385

**Project Number:** 21.1387.3

**Date of Report:** August 16, 2021



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August 16, 2021

Mr. Matthew Kastl, Director of Facilities  
Porter County Education Services  
750 Ransom Road  
Valparaiso, IN 46385

**Re: Limited Lead-Based Paint Survey  
Porter County Special Education Learning Facility (SELF)  
750 Ransom Road, Valparaiso, IN 46385  
Project No: 21.1387.3**

Dear Mr. Kastl:

Thank you for the opportunity to provide you and the Porter County Education Service with this service. This limited lead-based paint (LBP) survey was conducted on March 23 and August 3, 2021, by Devyn Unger, License: IND001416, Expiration: 5/19/2022 at the Porter County Special Education Learning Facility (SELF) building located at 750 Ransom Road, Valparaiso, Porter County, Indiana, 46385. All sampling and analyses were performed in accordance with all applicable local, state, and federal rules and regulations.

## **Background**

The Indiana State Department of Health (ISDH) and the Environmental Protection Agency (EPA) define lead-based paint (LBP) as being  $\geq 1.0$  mg/cm<sup>2</sup>.

Regulatory dust hazard levels have not been established for school buildings and/or other public use buildings. Currently, lead dust hazard levels have only been established by the Indiana State Department of Health (ISDH), Environmental Protection Agency (EPA) and the Department of Housing and Urban Development (HUD) for residential structures built prior to 1978. The current EPA and HUD regulations identify lead dust hazards to contain concentrations of lead equal to or greater than: 10  $\mu\text{g}/\text{ft}^2$  for floors and 100  $\mu\text{g}/\text{ft}^2$  for window sills.

Therefore, for purposes of this inspection, we have utilized the ISDH, EPA and HUD lead dust hazard levels to determine if there are any lead-dust hazards within the building.

## **Inspection**

### **Lead-Paint Inspection**

During the lead paint survey performed on March 23, 2021, the sides of the building were labeled A, B, C & D. By convention, Side A is the side from which the building address is taken, Ransom Road, and the other sides follow in a clockwise direction. Rooms/areas within the building were labeled by current use and/or the room numbers. Please refer to the attached site plans that depict the sample locations.

The survey was conducted utilizing a Viken Detection Pb200i, 57 Cobalt sourced, X-ray Fluorescent (XRF) instrument. Painted building materials were tested using the XRF to characterize components that contain lead-based paint to ensure proper measures are taken during any future renovation activities.

### **Lead Dust Sampling**

In addition to the lead-paint inspection, lead dust wipe sampling was performed on August 3, 2021, within the building. In total, fourteen (14) lead dust wipe samples were collected from floors and window sills

throughout the building. The samples were collected from areas that were identified to contain lead-based paint and/or areas that are likely to be frequented by children under 6 and/or children that are likely to spend time on the floor. Please refer to the attached Floor Plans depicting approximate sample locations.

**Findings**

**Lead-Based Paint Inspection**

During the inspection, a total of two hundred and twenty-seven (227) materials were tested throughout the building. Of the materials tested, thirty (30) were identified to contain LBP. All of the materials identified to contain LBP were intact at the time of inspection and were therefore not considered to be lead hazards. Please see the attached XRF results for details on testing locations and surfaces identified to contain LBP.

The following table identifies the materials identified to contain LBP:

Identified Lead-Based Paint					
Room	Component	Side	Substrate	Color	Notes
Cafeteria	Wall	A	Drywall	Yellow	Wallpaper
Cafeteria	Wall	C	Drywall	Yellow	Wallpaper
Cafeteria	Wall	D	Drywall	Yellow	Wallpaper
Cafeteria	Wall	B	Drywall	Yellow	Wallpaper
F1	Wall	C	Drywall	Tan	Wallpaper
D5	Wall	B	Drywall	Yellow	Wallpaper
D3	Wall	D	Drywall	Yellow	Wallpaper
C10	Wall	C	Drywall	Yellow	Wallpaper
C10 Office	Wall	A	Drywall	Yellow	Wallpaper
C10 Office	Wall	C	Drywall	Lt. Green	Wallpaper
C6	Wall	C	Drywall	Lt. Blue	Wallpaper
C6 Office	Wall	D	Drywall	Lt. Blue	Wallpaper
C6 Office	Wall	B	Drywall	Lt. Blue	Wallpaper
B13	Wall	C	Drywall	Tan	Wallpaper
B13 Office	Wall	A	Wood	Orange	Wallpaper
B13 Office	Wall	C	Wood	Yellow	Wallpaper
B11	Wall	B	Drywall	Yellow	Wallpaper
B Hall	Wall	A	Drywall	Tan	Wallpaper
B8	Wall	D	Drywall	Tan	Wallpaper
B8 Office	Wall	D	Drywall	Tan	Wallpaper
B6	Wall	A	Drywall	Lt. Blue	Wallpaper
G1	Wall	C	Drywall	White	Wallpaper
G4	Wall	A	Drywall	White	Wallpaper
G7	Wall	B	Drywall	Lt. Green	Wallpaper
G7	Wall	C	Drywall	Lt. Green	Wallpaper
G7	Wall	D	Drywall	Lt. Green	Wallpaper
G Hall	Wall	B	Drywall	Tan	Wallpaper
G12	Wall	D	Drywall	White	Wallpaper
Nurses Office	Wall	A	Drywall	White	Wallpaper
Nurses Office	Wall	B	Drywall	White	Wallpaper
A20	Wall	A	Drywall	Gray	Wallpaper

Note – A lead-based paint hazard is defined as lead-based paint in a non-intact condition or has a high potential for becoming non-intact.

**Lead Dust Wipes**

I am pleased to inform you that no lead dust hazards were detected during this assessment. In fact, no concentration of lead dust was identified in any of the samples collected above the level of detection. Please see the attached laboratory report and Floor Plans for all sample locations and results.

### Conclusion

Please be advised that LBP was identified on the walls with painted wallpaper of a specific texture at various locations within the building. Multiple wallpapers of varying textures were tested as part of this investigation and only one particular texture was positive for LBP. Please refer to the attached XRF results and site plan for known locations.

All components that have been identified to contain LBP must be handled following the EPA Lead Renovation, Repair and Painting Rule (RRP) and Occupational Health and Safety Administration (OSHA) rules, regulations and standards. In addition, any walls covered with similar wallpaper coverings that were not tested during the inspection must be assumed to contain lead-based paint until they can be tested and proven otherwise.

### Recommendations

Based on the findings, no lead-based paint and/or dust hazards have been identified within the building.

Therefore, it is my professional recommendation that all materials that have been identified to contain LBP within areas frequented by children aged 6 and younger be handled following the EPA Lead Renovation, Repair and Painting Rule (RRP) if they will be disturbed or become deteriorated. In addition, the OSHA Lead Standard for the Construction Industry, 29 CFR 1926.62 covers lead in a variety of forms, including paint with any detectable amounts of lead. During any renovation projects performed within the building, engineering and work practice controls should be implemented to reduce and maintain employee exposure to lead concentrations at or below the permissible exposure limit (PEL) of 50 µg/m<sup>3</sup> over an 8-hour work period. All workers performing work within the building shall have the appropriate EPA RRP and general OSHA training.

### Report Limitations

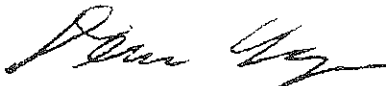
This report describes the results of Amereco Engineering's investigation to assess the building for lead-based paint and lead dust hazards. The conclusions stated herein represent the material facts and conditions associated with the subject property.

The findings of this report are valid this date. Changes in the condition of the property can occur with passage of time, whether they are due to natural processes or human activities on this or adjacent properties. In addition, changes in the state-of-the-art and/or government codes may occur. Due to such changes, the findings of this report may be invalidated wholly or in part by changes beyond our control.

The final assessment of the potential for the existence of lead-based paint at the site should be considered a professional opinion based on the data obtained during the investigation. These opinions have been derived in accordance with current standards of practice and no warranty is expressed or implied.

Please call if you have any questions.

Respectfully,



Devyn Unger  
Lead Risk Assessor

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XRF Results - All Positives  
 Porter County Education Services  
 Special Education Learning Facility  
 Valparaiso, IN 46385

Reading #	mg/cm2	Result	Date	Time	Room	Component	Side	Substrate	Condition	Color	Note 1
18192	1	Positive	3/23/2021	9:52:03		Calibration					1.0 Front
18193	1.1	Positive	3/23/2021	9:52:22		Calibration					1.0 Front
18194	1.1	Positive	3/23/2021	9:52:40		Calibration					1.0 Front
18209	1.2	Positive	3/23/2021	10:30:47	Cafeteria	Wall	A	Drywall	Intact	Yellow	
18210	1	Positive	3/23/2021	10:31:30	Cafeteria	Wall	C	Drywall	Intact	Yellow	
18211	1.4	Positive	3/23/2021	10:31:59	Cafeteria	Wall	D	Drywall	Intact	Yellow	
18212	1.1	Positive	3/23/2021	10:32:37	Cafeteria	Wall	B	Drywall	Intact	Yellow	
18215	1.1	Positive	3/23/2021	10:38:24	F1	Wall	C	Drywall	Intact	Tan	
18236	1	Positive	3/23/2021	11:19:50	D5	Wall	B	Drywall	Intact	Yellow	
18240	1.2	Positive	3/23/2021	11:21:49	D3	Wall	D	Drywall	Intact	Yellow	
18260	1.1	Positive	3/23/2021	11:37:01	C10	Wall	C	Drywall	Intact	Yellow	
18261	1.5	Positive	3/23/2021	11:41:12	C10 Office	Wall	A	Drywall	Intact	Yellow	
18262	1.5	Positive	3/23/2021	11:41:36	C10 Office	Wall	C	Drywall	Intact	Lt. Green	
18270	1.2	Positive	3/23/2021	11:47:59	C6	Wall	C	Drywall	Intact	Lt. Blue	
18272	1.4	Positive	3/23/2021	11:50:18	C6 Office	Wall	D	Drywall	Intact	Lt. Blue	
18273	1.5	Positive	3/23/2021	11:50:53	C6 Office	Wall	B	Drywall	Intact	Lt. Blue	
18291	1.4	Positive	3/23/2021	12:12:37	B13	Wall	C	Drywall	Intact	Tan	
18296	1	Positive	3/23/2021	12:15:22	B13 Office	Wall	A	Wood	Intact	Orange	
18297	1.6	Positive	3/23/2021	12:15:54	B13 Office	Wall	C	Wood	Intact	Yellow	
18301	1.1	Positive	3/23/2021	12:18:05	B11	Wall	B	Drywall	Intact	Yellow	
18302	1.1	Positive	3/23/2021	12:23:10	B Hall	Wall	A	Drywall	Intact	Tan	
18305	1.1	Positive	3/23/2021	12:25:17	B8	Wall	D	Drywall	Intact	Tan	
18306	1.1	Positive	3/23/2021	12:26:04	B8 Office	Wall	D	Drywall	Intact	Tan	
18307	1.6	Positive	3/23/2021	12:29:43	B6	Wall	A	Drywall	Intact	Lt. Blue	
18320	1.5	Positive	3/23/2021	13:40:56	G1	Wall	C	Drywall	Intact	White	
18323	1.4	Positive	3/23/2021	13:49:54	G4	Wall	A	Drywall	Intact	White	
18338	1.4	Positive	3/23/2021	14:18:09	G7	Wall	B	Drywall	Intact	Lt. Green	
18339	1.3	Positive	3/23/2021	14:18:31	G7	Wall	C	Drywall	Intact	Lt. Green	
18340	1.4	Positive	3/23/2021	14:18:52	G7	Wall	D	Drywall	Intact	Lt. Green	
18341	1.5	Positive	3/23/2021	14:29:12	G Hall	Wall	B	Drywall	Intact	Tan	
18342	1.4	Positive	3/23/2021	14:31:52	G12	Wall	D	Drywall	Intact	White	

Model: Pb2001  
 Source: 57Co  
 Serial Number: 2510  
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XRF Results - All Positives  
 Porter County Education Services  
 Special Education Learning Facility  
 Valparaiso, IN 46385

18349	1.5	Positive	3/23/2021	14:40:56	Nurses Office	Wall	A	Drywall	Intact	White	
18351	1.4	Positive	3/23/2021	14:41:37	Nurses Office	Wall	B	Drywall	Intact	White	
18402	1.3	Positive	3/23/2021	15:38:47	A20	Wall	A	Drywall	Intact	Gray	
18423	1.1	Positive	3/23/2021	16:25:10		Calibration					1.0 Front
18424	1	Positive	3/23/2021	16:25:22		Calibration					1.0 Front
18425	1.1	Positive	3/23/2021	16:25:35		Calibration					1.0 Front

Make: Viken Detection  
 Model: Pb200i  
 Source: 57Co  
 Serial Number: 2510

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**XRF Results**  
**Porter County Education Services**  
**Special Education Learning Facility**  
**Valparaiso, IN 46385**

Reading #	mg/cm2	Result	Date	Time	Room	Component	Side	Substrate	Condition	Color	Note 1
18192	1	Positive	3/23/2021	9:52:03		Calibration					1.0 Front
18193	1.1	Positive	3/23/2021	9:52:22		Calibration					1.0 Front
18194	1.1	Positive	3/23/2021	9:52:40		Calibration					1.0 Front
18195	0.2	Negative	3/23/2021	9:53:33	Boiler Room	Boiler	A	Metal	Deteriorated	Gray	
18196	0.1	Negative	3/23/2021	9:53:50	Boiler Room	Boiler	A	Asbestos	Deteriorated	Gray	
18197	0.1	Negative	3/23/2021	9:54:36	Boiler Room	Pipe	A	Metal	Intact	Gray	
18198	-0.1	Negative	3/23/2021	9:55:22	Boiler Room	Door	B	Metal	Deteriorated	White	
18199	0	Negative	3/23/2021	9:55:40	Boiler Room	Door Casing	B	Metal	Deteriorated	White	
18200	0.3	Negative	3/23/2021	9:56:14	Boiler Room	Door Lintel	B	Metal	Deteriorated	White	
18201	0.6	Negative	3/23/2021	10:18:50	North Hall	Wall	A	Drywall	Intact	Tan	
18202	0.4	Negative	3/23/2021	10:19:06	North Hall	Wall	C	Drywall	Intact	Tan	
18203	0.2	Negative	3/23/2021	10:19:28	North Hall	Door Casing	A	Metal	Intact	Brown	
18204	0.6	Negative	3/23/2021	10:20:38	North Hall	Door Casing	C	Metal	Intact	Brown	
18205	0.1	Negative	3/23/2021	10:22:55	F4	Wall	A	Drywall	Intact	Green	
18206	0.2	Negative	3/23/2021	10:24:33	F4	Wall	B	Drywall	Intact	Green	
18207	0.1	Negative	3/23/2021	10:24:49	F4	Wall	C	Drywall	Intact	Green	
18208	0.1	Negative	3/23/2021	10:25:05	F4	Wall	D	Drywall	Intact	Green	
18209	1.2	Positive	3/23/2021	10:30:47	Cafeteria	Wall	A	Drywall	Intact	Yellow	
18210	1	Positive	3/23/2021	10:31:30	Cafeteria	Wall	C	Drywall	Intact	Yellow	
18211	1.4	Positive	3/23/2021	10:31:59	Cafeteria	Wall	D	Drywall	Intact	Yellow	
18212	1.1	Positive	3/23/2021	10:32:37	Cafeteria	Wall	B	Drywall	Intact	Yellow	
18213	0.2	Negative	3/23/2021	10:33:11	Cafeteria	Door Casing	B	Metal	Intact	Brown	
18214	0.7	Negative	3/23/2021	10:38:06	F1	Wall	B	Drywall	Intact	Tan	
18215	1.1	Positive	3/23/2021	10:38:24	F1	Wall	C	Drywall	Intact	Tan	
18216	0.2	Negative	3/23/2021	10:39:14	F1	Wall	D	Drywall	Intact	Tan	
18217	0.2	Negative	3/23/2021	10:39:30	F1	Wall	D	Drywall	Intact	Tan	
18218	0.2	Negative	3/23/2021	10:41:16	F1	Door	A	Wood	Deteriorated	Brown	
18219	-0.1	Negative	3/23/2021	10:41:30	F1	Door Casing	A	Wood	Deteriorated	Brown	
18220	-0.1	Negative	3/23/2021	10:41:43	F1	Door Jamb	A	Wood	Deteriorated	Brown	

Make: Viken Detection  
Model: Pb200i  
Source: <sup>57</sup>Co  
Serial Number: 2510

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**XRF Results**  
**Porter County Education Services**  
**Special Education Learning Facility**  
**Valparaiso, IN 46385**

Reading #	mg/cm2	Result	Date	Time	Room	Component	Side	Substrate	Condition	Color	Note 1
18221	0.2	Negative	3/23/2021	10:56:17	D10	Wall	A	Drywall	Deteriorated	Yellow	
18222	0.2	Negative	3/23/2021	10:56:33	D10	Wall	D	Drywall	Deteriorated	Yellow	
18223	0.6	Negative	3/23/2021	10:56:58	D10	Wall	B	Drywall	Deteriorated	Yellow	
18224	0.1	Negative	3/23/2021	10:57:21	D10	Wall	C	Drywall	Deteriorated	Yellow	
18225	0.1	Negative	3/23/2021	10:58:34	D9	Wall	C	Drywall	Deteriorated	Yellow	
18226	0.1	Negative	3/23/2021	10:58:51	D9	Wall	B	Drywall	Deteriorated	Yellow	
18227	0.6	Negative	3/23/2021	10:59:35	D9	Wall	D	Drywall	Deteriorated	Yellow	
18228	0.1	Negative	3/23/2021	11:03:18	D9	Wall	A	Drywall	Deteriorated	Yellow	
18229	-0.1	Negative	3/23/2021	11:05:39	Boy's Dressing Rm.	Wall	A	Cinder Block	Intact	Blue	
18230	0.1	Negative	3/23/2021	11:05:53	Boy's Dressing Rm.	Wall	B	Cinder Block	Intact	Blue	
18231	0	Negative	3/23/2021	11:16:30	Gymnasium	Wall	C	Cinder Block	Intact	Blue	
18232	0	Negative	3/23/2021	11:16:53	Gymnasium	Wall	B	Cinder Block	Intact	White	
18233	-0.1	Negative	3/23/2021	11:17:21	Gymnasium	Bleachers	B	Wood	Intact	Varnish	
18234	0	Negative	3/23/2021	11:17:31	Gymnasium	Bleachers	B	Wood	Intact	Varnish	
18235	0.2	Negative	3/23/2021	11:19:32	D5	Wall	A	Drywall	Intact	Lt. Green	
18236	1	Positive	3/23/2021	11:19:50	D5	Wall	B	Drywall	Intact	Yellow	
18237	0	Negative	3/23/2021	11:20:22	D5	Wall	D	Drywall	Intact	Yellow	
18238	0.1	Negative	3/23/2021	11:20:45	D5	Wall	C	Drywall	Intact	Lt. Green	
18239	0	Negative	3/23/2021	11:21:35	D3	Wall	A	Drywall	Intact	Yellow	
18240	1.2	Positive	3/23/2021	11:21:49	D3	Wall	D	Drywall	Intact	Yellow	
18241	0.1	Negative	3/23/2021	11:22:18	D3	Wall	B	Drywall	Intact	Yellow	
18242	0	Negative	3/23/2021	11:22:43	D3	Wall	C	Drywall	Intact	Yellow	
18243	0.2	Negative	3/23/2021	11:23:23	D3	Window Casing	C	Metal	Intact	Black	
18244	0.1	Negative	3/23/2021	11:23:41	D3	Radiator	C	Metal	Intact	Brown	
18245	0.2	Negative	3/23/2021	11:24:18	D3	Door Casing	B	Metal	Intact	Brown	
18246	0.2	Negative	3/23/2021	11:24:34	D3	Shelf	B	Wood	Intact	Brown	
18247	0.1	Negative	3/23/2021	11:27:15	D Hall	Wall	C	Drywall	Intact	Tan	
18248	0.1	Negative	3/23/2021	11:27:31	D Hall	Wall	A	Drywall	Intact	Tan	
18249	-0.1	Negative	3/23/2021	11:28:32	Laundry	Shelf	C	Wood	Deteriorated	Yellow	

Make: Viken Detection  
Model: Pb200i  
Source: <sup>57</sup>Co  
Serial Number: 2510

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Valparaiso, IN 46383

**XRF Results**  
**Porter County Education Services**  
**Special Education Learning Facility**  
**Valparaiso, IN 46385**

Reading #	mg/cm2	Result	Date	Time	Room	Component	Side	Substrate	Condition	Color	Note 1
18250	-0.1	Negative	3/23/2021	11:28:42	Laundry	Shelf	C	Wood	Deteriorated	Yellow	
18251	0.2	Negative	3/23/2021	11:29:11	Laundry	Pipe	A	Metal	Deteriorated	Yellow	
18252	-0.3	Negative	3/23/2021	11:29:43	Laundry	Wall	B	Cinder Block	Intact	White	
18253	-0.2	Negative	3/23/2021	11:33:46	Maint. Office	Wall	A	Cinder Block	Intact	Brown	
18254	0.1	Negative	3/23/2021	11:34:11	Maint. Office	Wall	C	Cinder Block	Intact	Brown	
18255	0.5	Negative	3/23/2021	11:35:23	C Hall	Wall	D	Drywall	Intact	Tan	
18256	0.6	Negative	3/23/2021	11:35:39	C Hall	Wall	D	Drywall	Intact	Tan	
18257	0.2	Negative	3/23/2021	11:35:55	C Hall	Wall	B	Drywall	Intact	Tan	
18258	0.2	Negative	3/23/2021	11:36:17	C10	Wall	A	Drywall	Intact	Tan	
18259	0.2	Negative	3/23/2021	11:36:37	C10	Wall	B	Drywall	Intact	Yellow	
18260	1.1	Positive	3/23/2021	11:37:01	C10	Wall	C	Drywall	Intact	Yellow	
18261	1.5	Positive	3/23/2021	11:41:12	C10 Office	Wall	A	Drywall	Intact	Yellow	
18262	1.5	Positive	3/23/2021	11:41:36	C10 Office	Wall	C	Drywall	Intact	Lt. Green	
18263	0.1	Negative	3/23/2021	11:42:58	C8	Wall	B	Drywall	Intact	Yellow	
18264	0	Negative	3/23/2021	11:43:18	C8	Wall	C	Drywall	Intact	Yellow	
18265	0.5	Negative	3/23/2021	11:43:49	C8	Wall	D	Drywall	Intact	Yellow	
18266	0.6	Negative	3/23/2021	11:44:11	C8	Wall	D	Drywall	Intact	Yellow	
18267	0.2	Negative	3/23/2021	11:44:29	C8	Wall	A	Drywall	Intact	Yellow	
18268	0.1	Negative	3/23/2021	11:46:24	C6	Wall	A	Drywall	Intact	Lt. Blue	
18269	0	Negative	3/23/2021	11:46:46	C6	Wall	B	Drywall	Intact	Lt. Blue	
18270	1.2	Positive	3/23/2021	11:47:59	C6	Wall	C	Drywall	Intact	Lt. Blue	
18271	0.1	Negative	3/23/2021	11:48:39	C6	Wall	D	Drywall	Intact	Lt. Blue	
18272	1.4	Positive	3/23/2021	11:50:18	C6 Office	Wall	D	Drywall	Intact	Lt. Blue	
18273	1.5	Positive	3/23/2021	11:50:53	C6 Office	Wall	B	Drywall	Intact	Lt. Blue	
18274	0.2	Negative	3/23/2021	11:52:04	C2	Wall	C	Drywall	Intact	Lt. Blue	
18275	0.1	Negative	3/23/2021	11:53:19	C2	Wall	D	Drywall	Intact	Lt. Blue	
18276	0.5	Negative	3/23/2021	11:53:39	C2	Wall	A	Drywall	Intact	Lt. Blue	
18277	0.6	Negative	3/23/2021	11:54:02	C2	Wall	A	Drywall	Intact	Lt. Blue	
18278	0	Negative	3/23/2021	11:56:18	C1	Wall	A	Cinder Block	Intact	White	

Make: Viken Detection  
Model: Pb200i  
Source: <sup>57</sup>Co  
Serial Number: 2510

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**XRF Results**  
**Porter County Education Services**  
**Special Education Learning Facility**  
**Valparaiso, IN 46385**

Reading #	mg/cm2	Result	Date	Time	Room	Component	Side	Substrate	Condition	Color	Note 1
18279	0	Negative	3/23/2021	11:56:32	C1	Wall	C	Cinder Block	Intact	White	
18280	-0.1	Negative	3/23/2021	11:57:02	C1	Pipe	A	Metal	Intact	White	
18281	0.6	Negative	3/23/2021	11:57:12	C1	Pipe	A	Metal	Intact	White	
18282	-0.2	Negative	3/23/2021	11:58:20	C4	Wall	A	Cinder Block	Intact	White	
18283	-0.2	Negative	3/23/2021	11:58:44	C4	Wall	B	Cinder Block	Intact	White	
18284	0	Negative	3/23/2021	11:59:27	C4	Wall	C	Cinder Block	Intact	White	
18285	-0.1	Negative	3/23/2021	12:00:33	C4 Pool Rm.	Wall	A	Cinder Block	Intact	Lt. Blue	
18286	-0.2	Negative	3/23/2021	12:00:54	C4 Pool Rm.	Wall	B	Cinder Block	Intact	Yellow	
18287	0	Negative	3/23/2021	12:06:30	B14	Wall	A	Cinder Block	Intact	Tan	
18288	0.1	Negative	3/23/2021	12:06:43	B14	Wall	D	Cinder Block	Intact	Tan	
18289	0.4	Negative	3/23/2021	12:07:09	B14	Door Casing	D	Metal	Intact	Brown	
18290	0.2	Negative	3/23/2021	12:12:08	B13	Wall	C	Drywall	Intact	Tan	
18291	1.4	Positive	3/23/2021	12:12:37	B13	Wall	C	Drywall	Intact	Tan	
18292	0.1	Negative	3/23/2021	12:13:09	B13	Wall	A	Drywall	Intact	Tan	
18293	0.6	Negative	3/23/2021	12:13:27	B13	Wall	D	Drywall	Intact	Tan	
18294	0.1	Negative	3/23/2021	12:14:16	B13 Closet	Wall	A	Wood	Deteriorated	White	
18295	0.1	Negative	3/23/2021	12:14:29	B13 Closet	Wall	C	Wood	Deteriorated	White	
18296	1	Positive	3/23/2021	12:15:22	B13 Office	Wall	A	Wood	Intact	Orange	
18297	1.6	Positive	3/23/2021	12:15:54	B13 Office	Wall	C	Wood	Intact	Yellow	
18298	0.6	Negative	3/23/2021	12:17:05	B11	Wall	B	Drywall	Intact	Yellow	
18299	0.6	Negative	3/23/2021	12:17:26	B11	Wall	B	Drywall	Intact	Yellow	
18300	0.1	Negative	3/23/2021	12:17:48	B11	Wall	A	Drywall	Intact	Yellow	
18301	1.1	Positive	3/23/2021	12:18:05	B11	Wall	B	Drywall	Intact	Yellow	
18302	1.1	Positive	3/23/2021	12:23:10	B Hall	Wall	A	Drywall	Intact	Tan	
18303	0.3	Negative	3/23/2021	12:23:34	B Hall	Wall	C	Drywall	Intact	Tan	
18304	0.1	Negative	3/23/2021	12:25:02	B8	Wall	C	Drywall	Intact	Tan	
18305	1.1	Positive	3/23/2021	12:25:17	B8	Wall	D	Drywall	Intact	Tan	
18306	1.1	Positive	3/23/2021	12:26:04	B8 Office	Wall	D	Drywall	Intact	Tan	
18307	1.6	Positive	3/23/2021	12:29:43	B6	Wall	A	Drywall	Intact	Lt. Blue	

Make: Viken Detection  
Model: Pb200i  
Source: <sup>57</sup>Co  
Serial Number: 2510

Amerco Engineering  
54 Michigan Avenue  
Valparaiso, IN 46383

**XRF Results**  
**Porter County Education Services**  
**Special Education Learning Facility**  
**Valparaiso, IN 46385**

Reading #	mg/cm2	Result	Date	Time	Room	Component	Side	Substrate	Condition	Color	Note 1
18308	0.1	Negative	3/23/2021	12:29:59	B6	Wall	C	Drywall	Intact	Lt. Blue	
18309	0.6	Negative	3/23/2021	13:27:29	B1	Wall	B	Drywall	Intact	Yellow	
18310	0.1	Negative	3/23/2021	13:28:00	B1	Wall	C	Drywall	Intact	Yellow	
18311	0.2	Negative	3/23/2021	13:28:19	B1	Wall	D	Drywall	Intact	Yellow	
18312	0.2	Negative	3/23/2021	13:28:36	B1	Wall	A	Drywall	Intact	Yellow	
18313	0.6	Negative	3/23/2021	13:29:08	B1	Wall	B	Drywall	Intact	Yellow	
18314	0.6	Negative	3/23/2021	13:29:53	B1 Closet	Wall	B	Drywall	Intact	Yellow	
18315	0.3	Negative	3/23/2021	13:33:50	B2	Wall	A	Drywall	Intact	Tan	
18316	0.3	Negative	3/23/2021	13:34:05	B2	Wall	B	Drywall	Intact	Tan	
18317	0.3	Negative	3/23/2021	13:34:20	B2	Wall	C	Drywall	Intact	Tan	
18318	0.2	Negative	3/23/2021	13:34:36	B2	Wall	D	Drywall	Intact	Tan	
18319	0.5	Negative	3/23/2021	13:40:41	G1	Wall	D	Drywall	Intact	White	
<b>18320</b>	<b>1.5</b>	<b>Positive</b>	<b>3/23/2021</b>	<b>13:40:56</b>	<b>G1</b>	<b>Wall</b>	<b>C</b>	<b>Drywall</b>	<b>Intact</b>	<b>White</b>	
18321	0.2	Negative	3/23/2021	13:41:17	G1	Wall	B	Drywall	Intact	White	
18322	0.1	Negative	3/23/2021	13:42:01	G1	Wall	A	Drywall	Intact	Blue	
<b>18323</b>	<b>1.4</b>	<b>Positive</b>	<b>3/23/2021</b>	<b>13:49:54</b>	<b>G4</b>	<b>Wall</b>	<b>A</b>	<b>Drywall</b>	<b>Intact</b>	<b>White</b>	
18324	0.2	Negative	3/23/2021	13:50:20	G4	Wall	B	Drywall	Intact	White	
18325	0.2	Negative	3/23/2021	13:50:39	G4	Wall	C	Drywall	Intact	Blue	
18326	0.6	Negative	3/23/2021	13:51:01	G4	Wall	D	Drywall	Intact	Blue	
18327	0.2	Negative	3/23/2021	13:58:59	G5	Wall	A	Drywall	Intact	White	
18328	0.1	Negative	3/23/2021	13:59:15	G5	Wall	B	Drywall	Intact	White	
18329	0.1	Negative	3/23/2021	13:59:43	G5	Wall	C	Drywall	Intact	Blue	
18330	0.1	Negative	3/23/2021	14:00:19	G5	Radiator	D	Metal	Intact	Blue	
18331	0.1	Negative	3/23/2021	14:06:36	G6	Wall	A	Drywall	Intact	Blue	
18332	0.1	Negative	3/23/2021	14:06:56	G6	Wall	B	Drywall	Intact	White	
18333	0.6	Negative	3/23/2021	14:07:17	G6	Wall	C	Drywall	Intact	White	
18334	0.7	Negative	3/23/2021	14:07:37	G6	Wall	C	Drywall	Intact	White	
18335	0.1	Negative	3/23/2021	14:07:58	G6	Wall	D	Drywall	Intact	White	
18336	0.1	Negative	3/23/2021	14:10:00	G6	Table	B	Wood	Deteriorated	White	

Make: Viken Detection  
Model: Pb200i  
Source: <sup>57</sup>Co  
Serial Number: 2510

Amerco Engineering  
54 Michigan Avenue  
Valparaiso, IN 46383

**XRF Results**  
**Porter County Education Services**  
**Special Education Learning Facility**  
**Valparaiso, IN 46385**

Reading #	mg/cm2	Result	Date	Time	Room	Component	Side	Substrate	Condition	Color	Note 1
18337	0	Negative	3/23/2021	14:17:46	G7	Wall	A	Drywall	Intact	Lt. Green	
18338	1.4	Positive	3/23/2021	14:18:09	G7	Wall	B	Drywall	Intact	Lt. Green	
18339	1.3	Positive	3/23/2021	14:18:31	G7	Wall	C	Drywall	Intact	Lt. Green	
18340	1.4	Positive	3/23/2021	14:18:52	G7	Wall	D	Drywall	Intact	Lt. Green	
18341	1.5	Positive	3/23/2021	14:29:12	G Hall	Wall	B	Drywall	Intact	Tan	
18342	0.6	Negative	3/23/2021	14:29:28	G Hall	Wall	D	Drywall	Intact	Tan	
18343	0.7	Negative	3/23/2021	14:30:19	G12	Wall	A	Drywall	Intact	White	
18344	0.6	Negative	3/23/2021	14:30:44	G12	Wall	A	Drywall	Intact	White	
18345	0.1	Negative	3/23/2021	14:31:02	G12	Wall	B	Drywall	Intact	White	
18346	0.2	Negative	3/23/2021	14:31:20	G12	Wall	C	Drywall	Intact	Blue	
18347	1.4	Positive	3/23/2021	14:31:52	G12	Wall	D	Drywall	Intact	White	
18348	0.3	Negative	3/23/2021	14:33:37	G12	Vent Cover	A	Metal	Intact	White	
18349	1.5	Positive	3/23/2021	14:40:56	Nurses Office	Wall	A	Drywall	Intact	White	
18350	0.2	Negative	3/23/2021	14:41:15	Nurses Office	Wall	C	Drywall	Intact	White	
18351	1.4	Positive	3/23/2021	14:41:37	Nurses Office	Wall	B	Drywall	Intact	White	
18352	0.1	Negative	3/23/2021	14:43:35	H Hall	Wall	B	Drywall	Intact	Tan	
18353	0.1	Negative	3/23/2021	14:43:49	H Hall	Wall	A	Drywall	Intact	Tan	
18354	0.1	Negative	3/23/2021	14:44:10	H Hall	Wall	D	Drywall	Intact	Tan	
18355	0.1	Negative	3/23/2021	14:44:36	H Hall	Locker	D	Metal	Intact	Green	
18356	0.1	Negative	3/23/2021	14:45:28	H2	Wall	A	Drywall	Intact	Tan	
18357	0.2	Negative	3/23/2021	14:45:44	H2	Wall	B	Drywall	Intact	Tan	
18358	0.1	Negative	3/23/2021	14:45:59	H2	Wall	C	Drywall	Intact	Tan	
18359	0	Negative	3/23/2021	14:46:29	H12	Wall	A	Drywall	Intact	Tan	
18360	0.1	Negative	3/23/2021	14:46:46	H12	Wall	C	Drywall	Intact	Tan	
18361	0.1	Negative	3/23/2021	14:47:30	H19	Wall	A	Drywall	Intact	White	
18362	-0.1	Negative	3/23/2021	14:47:45	H19	Wall	B	Drywall	Intact	White	
18363	0.1	Negative	3/23/2021	14:48:04	H19	Wall	D	Drywall	Intact	White	
18364	0.1	Negative	3/23/2021	14:53:58	H18	Wall	D	Drywall	Intact	White	
18365	0.2	Negative	3/23/2021	14:54:14	H18	Wall	C	Drywall	Intact	White	

Make: Viken Detection  
Model: Pb200i  
Source: <sup>57</sup>Co  
Serial Number: 2510

Amerco Engineering  
54 Michigan Avenue  
Valparaiso, IN 46383

**XRF Results**  
**Porter County Education Services**  
**Special Education Learning Facility**  
**Valparaiso, IN 46385**

Reading #	mg/cm2	Result	Date	Time	Room	Component	Side	Substrate	Condition	Color	Note 1
18366	0.1	Negative	3/23/2021	14:54:43	H17	Wall	A	Drywall	Intact	White	
18367	0.1	Negative	3/23/2021	14:54:59	H17	Wall	B	Drywall	Intact	White	
18368	0.1	Negative	3/23/2021	15:01:12	H5	Wall	A	Drywall	Intact	White	
18369	0.1	Negative	3/23/2021	15:01:28	H5	Wall	B	Drywall	Intact	White	
18370	0.1	Negative	3/23/2021	15:01:48	H5	Wall	C	Drywall	Intact	White	
18371	0.1	Negative	3/23/2021	15:02:03	H5	Wall	D	Drywall	Intact	White	
18372	0.2	Negative	3/23/2021	15:07:37	H10	Wall	A	Cinder Block	Intact	White	
18373	0.1	Negative	3/23/2021	15:07:58	H10	Door	A	Metal	Intact	Brown	
18374	0.1	Negative	3/23/2021	15:10:15	J4	Wall	A	Drywall	Intact	Lt. Blue	
18375	0.1	Negative	3/23/2021	15:10:33	J4	Wall	D	Cinder Block	Intact	Lt. Blue	
18376	-0.1	Negative	3/23/2021	15:11:09	J3	Wall	A	Wood	Intact	Lt. Blue	
18377	0.1	Negative	3/23/2021	15:11:29	J3	Wall	D	Drywall	Intact	Lt. Blue	
18378	0.1	Negative	3/23/2021	15:13:38	J5	Wall	A	Drywall	Intact	Lt. Blue	
18379	0.1	Negative	3/23/2021	15:14:00	J5	Wall	C	Drywall	Intact	Lt. Blue	
18380	-0.1	Negative	3/23/2021	15:15:38	J10	Wall	B	Cinder Block	Intact	White	
18381	-0.1	Negative	3/23/2021	15:16:57	J8	Wall	A	Cinder Block	Intact	White	
18382	-0.1	Negative	3/23/2021	15:17:14	J8	Wall	C	Cinder Block	Intact	White	
18383	-0.1	Negative	3/23/2021	15:17:30	J8	Wall	D	Cinder Block	Intact	White	
18384	0	Negative	3/23/2021	15:20:17	J7	Wall	A	Cinder Block	Intact	White	
18385	0	Negative	3/23/2021	15:20:33	J7	Wall	C	Cinder Block	Intact	White	
18386	0.1	Negative	3/23/2021	15:25:05	A4	Wall	B	Drywall	Intact	Tan	
18387	0.1	Negative	3/23/2021	15:25:23	A4	Wall	C	Drywall	Intact	Tan	
18388	0.2	Negative	3/23/2021	15:25:43	A4	Wall	D	Drywall	Intact	Tan	
18389	-0.1	Negative	3/23/2021	15:26:06	A4	Door	B	Wood	Intact	Brown	
18390	0.1	Negative	3/23/2021	15:26:25	A4	Door Casing	B	Metal	Intact	Gray	
18391	0.1	Negative	3/23/2021	15:26:58	A4	Radiator	C	Metal	Intact	Brown	
18392	0.6	Negative	3/23/2021	15:30:21	A14	Wall	B	Drywall	Intact	Tan	
18393	0.6	Negative	3/23/2021	15:30:34	A14	Wall	B	Drywall	Intact	Tan	
18394	0.1	Negative	3/23/2021	15:31:09	A13	Wall	B	Drywall	Intact	Tan	

Make: Viken Detection  
Model: Pb200i  
Source: <sup>57</sup>Co  
Serial Number: 2510

Amerco Engineering  
54 Michigan Avenue  
Valparaiso, IN 46385

**XRF Results**  
**Porter County Education Services**  
**Special Education Learning Facility**  
**Valparaiso, IN 46385**

Reading #	mg/cm2	Result	Date	Time	Room	Component	Side	Substrate	Condition	Color	Note 1
18395	0.1	Negative	3/23/2021	15:31:24	A13	Wall	D	Drywall	Intact	Tan	
18396	0.8	Negative	3/23/2021	15:36:08	A9	Wall	D	Drywall	Intact	Tan	
18397	0.8	Negative	3/23/2021	15:36:33	A9	Wall	A	Drywall	Intact	Tan	
18398	0.2	Negative	3/23/2021	15:37:06	A22	Wall	B	Drywall	Intact	Tan	
18399	0.1	Negative	3/23/2021	15:37:26	A22	Wall	C	Drywall	Intact	Tan	
18400	0.7	Negative	3/23/2021	15:37:40	A22	Wall	D	Drywall	Intact	Tan	
18401	0	Negative	3/23/2021	15:38:10	A22	Wall	A	Drywall	Intact	Tan	
<b>18402</b>	<b>1.3</b>	<b>Positive</b>	<b>3/23/2021</b>	<b>15:38:47</b>	<b>A20</b>	<b>Wall</b>	<b>A</b>	<b>Drywall</b>	<b>Intact</b>	<b>Gray</b>	
18403	0.2	Negative	3/23/2021	15:39:24	A20	Wall	C	Drywall	Intact	Tan	
18404	0.2	Negative	3/23/2021	15:57:44	Exterior	Siding	C	Metal	Deteriorated	Gray	
18405	0.1	Negative	3/23/2021	15:58:01	Exterior	Siding	C	Metal	Deteriorated	Gray	
18406	-0.1	Negative	3/23/2021	15:58:33	Exterior	Soffit	C	Plaster	Deteriorated	White	
18407	0.1	Negative	3/23/2021	16:00:17	Exterior	Fascia	C	Metal	Deteriorated	White	
18408	0.1	Negative	3/23/2021	16:00:37	Exterior	Window Lintel	C	Metal	Deteriorated	Black	
18409	0.2	Negative	3/23/2021	16:01:30	Exterior	Vent Lintel	C	Metal	Deteriorated	Red	
18410	0.2	Negative	3/23/2021	16:08:24	Exterior	Fascia	A	Metal	Deteriorated	White	
18411	-0.1	Negative	3/23/2021	16:08:47	Exterior	Soffit	A	Plaster	Intact	White	
18412	0.3	Negative	3/23/2021	16:09:23	Exterior	Post	A	Metal	Intact	Brown	
18413	0.1	Negative	3/23/2021	16:10:54	Exterior	Fascia	B	Metal	Intact	White	
18414	-0.1	Negative	3/23/2021	16:11:13	Exterior	Soffit	B	Plaster	Intact	White	
18415	0.2	Negative	3/23/2021	16:13:09	Exterior	Soffit	D	Plaster	Intact	White	
18416	-0.1	Negative	3/23/2021	16:13:30	Exterior	Fascia	D	Metal	Intact	White	
18417	0.2	Negative	3/23/2021	16:14:33	Exterior	Siding	A	Metal	Intact	Blue	
18418	0.2	Negative	3/23/2021	16:15:41	Exterior	Siding	D	Metal	Intact	Blue	
18419	0.1	Negative	3/23/2021	16:16:00	Exterior	Door	D	Metal	Intact	White	
18420	0.3	Negative	3/23/2021	16:16:44	Exterior	Basketball Goal	D	Metal	Deteriorated	Silver	
18421	-0.1	Negative	3/23/2021	16:17:29	Exterior	Sand Box	C	Wood	Deteriorated	Blue	
18422	0.3	Negative	3/23/2021	16:18:07	Exterior	Floor	C	Concrete	Deteriorated	Yellow	
<b>18423</b>	<b>1.1</b>	<b>Positive</b>	<b>3/23/2021</b>	<b>16:25:10</b>		<b>Calibration</b>					<b>1.0 Front</b>

Make: Viken Detection  
Model: Pb200i  
Source: <sup>57</sup>Co  
Serial Number: 2510

Amerco Engineering  
54 Michigan Avenue  
Valparaiso, IN 46383

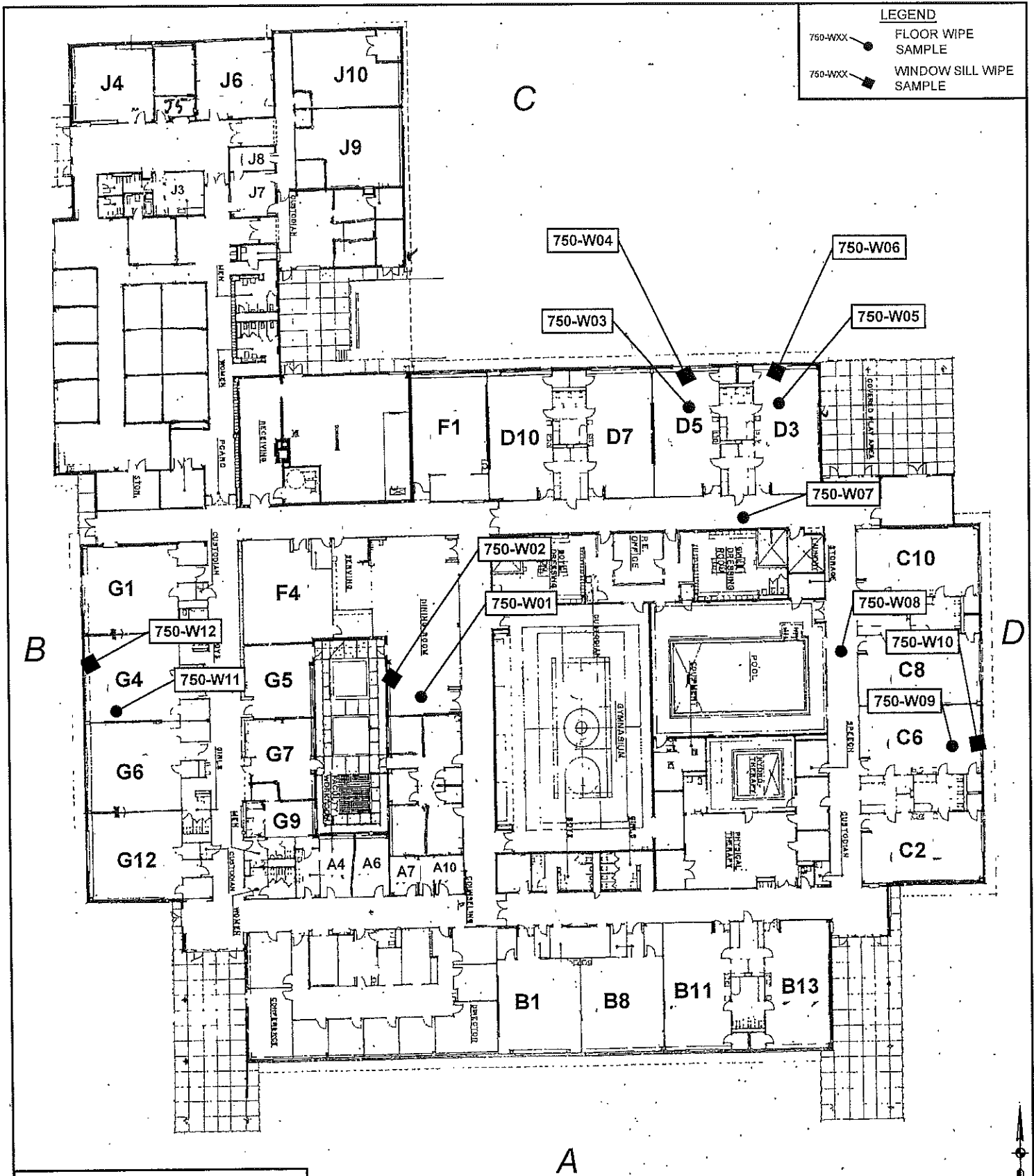
XRF Results  
 Porter County Education Services  
 Special Education Learning Facility  
 Valparaiso, IN 46385

Reading #	mg/cm2	Result	Date	Time	Room	Component	Side	Substrate	Condition	Color	Note 1
18424	1	Positive	3/23/2021	16:25:22		Calibration					1.0 Front
18425	1.1	Positive	3/23/2021	16:25:35		Calibration					1.0 Front

Make: Viken Detection  
 Model: Pb200i  
 Source: <sup>57</sup>Co  
 Serial Number: 2510

Amerco Engineering  
 54 Michigan Avenue  
 Valparaiso, IN 46383





LEGEND	
750-WXX ●	FLOOR WIPE SAMPLE
750-WXX ◻	WINDOW SILL WIPE SAMPLE

DRAWING NOT TO SCALE. FOR REPRESENTATIONAL PURPOSES ONLY.

SHEET 1 OF 2

FIGURE

1

LEAD DUST WIPE SAMPLE LOCATIONS  
 LIMITED LEAD-BASED PAINT SURVEY  
 PORTER COUNTY SELF  
 750 RANSOM ROAD  
 VALPARAISO INDIANA

NO.	REVISION	BY	DATE
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			

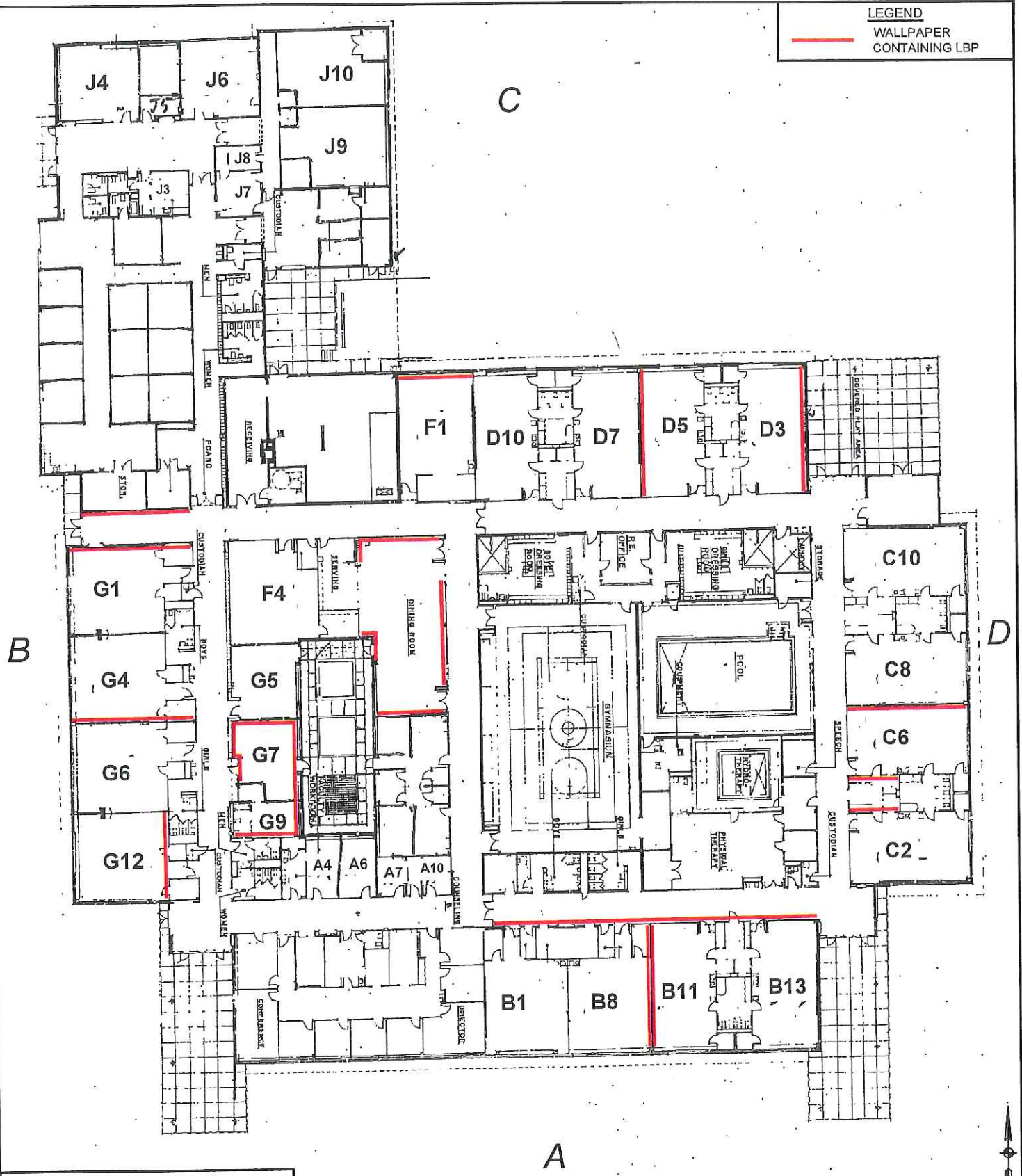
DRAWN: L. SALVER  
 DESIGNED: J. RUGG  
 APPROVED: J. BLOSKEY  
 DATE: AUG. 16, 2021  
 PROJECT NUMBER:  
 21.1387.3



**AMERESCO, INC.**  
 CONSULTING ENGINEERS-PROJECT MANAGERS  
 54 MICHIGAN AVENUE  
 VALPARAISO, IN 46383 219-531-0531

**LEGEND**

— WALLPAPER  
CONTAINING LBP



DRAWING NOT TO SCALE. FOR REPRESENTATIONAL PURPOSES ONLY.

SHEET 2 OF 2  
FIGURE  
**2**

IDENTIFIED LEAD-BASED PAINT  
LIMITED LEAD-BASED PAINT SURVEY  
PORTER COUNTY SELF  
750 RANSOM ROAD  
VALPARAISO INDIANA

DRAWN:	DESIGNED:	APPRVD:	DATE:	PROJECT NUMBER:	NO.	REVISION	BY	DATE
L. SALYER	J. RUGG	J. BLOSKY	AUG. 16, 2021	21.1387.3				

**AMERECO, INC.**  
CONSULTING ENGINEERS-PROJECT MANAGERS  
54 MICHIGAN AVENUE  
VALPARAISO, IN 46383 219-531-0531

Photographic Documentation  
Porter County SELF School  
750 Ransom Road  
Valparaiso IN 46385



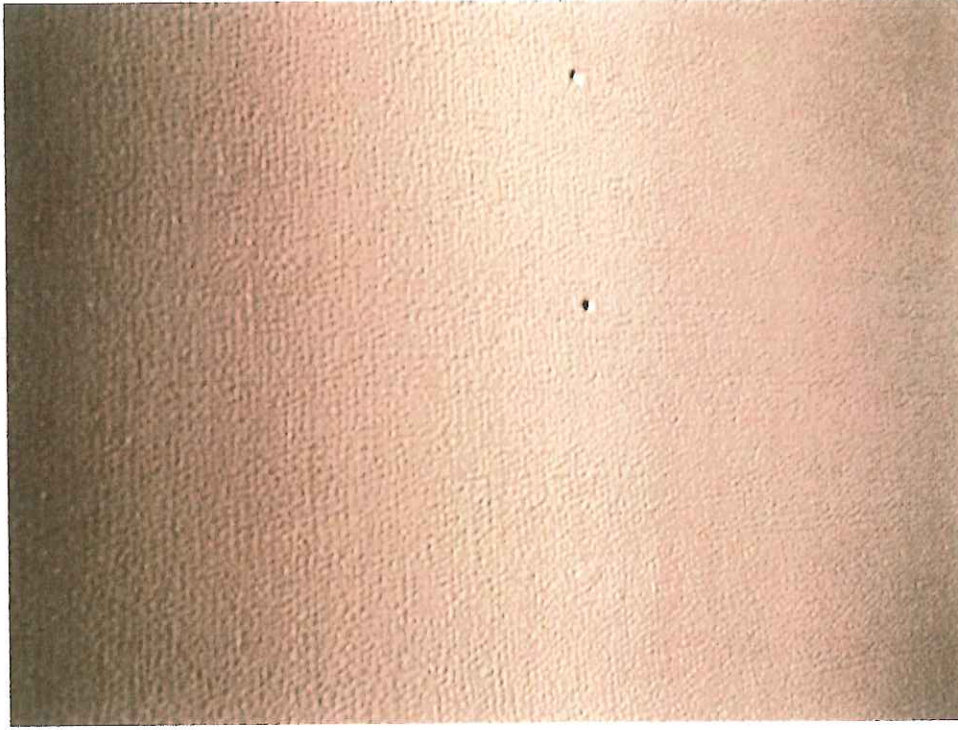
1. Wallpaper Containing Lead-Based Paint -- Room G4



2. Closeup of Lead-Based Paint Wallpaper Texture --  
Room G4

Amereco, Inc.  
54 Michigan Avenue  
Valparaiso, IN 46383

Photographic Documentation  
Porter County SELF School  
750 Ransom Road  
Valparaiso IN 46385



3. Closeup of Lead-Based Paint Wallpaper Texture --  
Cafeteria Lunchroom

Amerco, Inc.  
54 Michigan Avenue  
Valparaiso, IN 46383



30105 Beverly Road  
 Romulus, MI 48174  
 Ph: 734-629-8161; Fax: 734-629-8431

REVISED REPORT

Certificate of Analysis: Lead In Dust Wipe by EPA Method 7000B/3050B\*

Client : Amereco Engineering	AAT Project : 700905
54 Michigan Avenue	Sampling Date : 08/03/2021
Valparaiso, IN 46383	Date Received : 08/04/2021
Attn : Zach Heine	Date Analyzed : 08/04/2021
Phone : 219-531-0531	Date Reported : 8/5/2021 2:09:18PM
Client Project : 21.1387.3	
Project Location : 750 RANSOM RD VALPARAISO IN	

Lab Sample ID	Client Code	Sample Description	Length (inch)	Width (inch)	Area (Sq ft)	Results Lead µg/ft2 *
6632317	750-W01	CAFETERIA LUNCHRM CONC F	12	12	1.00	<5.00
6632318	750-W02	CAFETERIA LUNCHRM MTL B WS	2	12	0.17	<30.00
6632319	750-W03	RM D5 TILE F	12	12	1.00	<5.00
6632320	750-W04	RM D5 MTL C WS	2	12	0.17	<30.00
6632321	750-W05	RM D3 CRPT F	12	12	1.00	<5.00
6632322	750-W06	RM D3 MTL C WS	2	12	0.17	<30.00
6632323	750-W07	D HALL CONC F	12	12	1.00	<5.00
6632324	750-W08	G HALL CONC F	12	12	1.00	<5.00
6632325	750-W09	RM C6 CRPT F	12	12	1.00	<5.00
6632326	750-W10	RM C6 MTL D WS	2	12	0.17	<30.00
6632327	750-W11	RM G4 CRPT F	12	12	1.00	<5.00
6632328	750-W12	RM G4 MTL B WS	2	12	0.17	<30.00
6632329	750-W13	NURSES OFFICE CRPT F	12	12	1.00	<5.00
6632330	750-W14	RM A20 CRPT F	12	12	1.00	<5.00

Comments: +Updated address per client email

Analyst Signature

Samia Alkatie

ND = Not Detected, N/A = Not Available, RL = Reporting Limit, Analytical Reporting Limit is 5 ug/sample. For true values assume (2) significant figures. AAT internal SOP S205. The method and batch QC are acceptable unless otherwise stated. EPA Regulatory Limits: 10 ug/ft2 (Floors, Carpeted/Uncarpeted), 100 ug/ft2 (Window Sill/Stools), 400ug/ft2 (Window Trough/Wall/Ext Concrete Surfaces). HUD Grantee Regulatory Limits: 10 ug/ft2 (Interior Floors), 40 ug/ft2 (Porch Floors), 100 ug/ft2 (Window Sills), 100 ug/ft2 (Window Troughs). The laboratory operates in accord with ISO 17025 guidelines and holds limited scopes of accreditation under AIHA-LAP and NY State DOH ELAP programs. These results are submitted pursuant to AAT, LLC current terms and conditions of sale, including the company's standard warranty and limitation of liability provisions. Analytical results relate to the samples as received by the lab. AAT will not assume any liability or responsibility for the manner in which the results are used or interpreted. All Quality Control requirements for the samples this report contains have been met. AAT does not blank correct reported values. Sample data apply only to items analyzed. Results are calculated with wipe dimensions supplied by client. Reproduction of this document other than in its entirety is not authorized by AAT, LLC. \* = Validated modified method. Samples are stored for 15 days following report date



AIHA LAP- Lab ID #100986, NY State DOH ELAP -Lab ID #11864, State of Ohio- Lab ID # 10042

Date Printed: 08/05/2021

AAT Project: 700905

Sample	Client Code	Analysis Requested	Completed	Analyst
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Revision History

Job #	Sample	Revision Date	Revised By	Comment
700905	0	08/05/2021	Matt Porter	+Updated address per client email

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AIHA LAP- Lab ID #100986, NY State DOH ELAP -Lab ID #11864, State of Ohio- Lab ID # 10042

Date Printed: 08/05/2021 2:09PM

AAT Project: 700905

## Performance Characteristic Sheet

**EFFECTIVE DATE:** December 1, 2020

**MANUFACTURER AND MODEL:**

Make: **Viken Detection** (previously Heuresis)  
 Models: **Model Pb200i**  
 Source: **<sup>57</sup>Co, 5 mCi (nominal – new source)**

### FIELD OPERATION GUIDANCE

**ACTION LEVEL SETTING:**

0.5 mg/cm<sup>2</sup>

**OPERATING PARAMETERS:**

Action Level mode

**XRF CALIBRATION CHECK LIMITS:**

0.8 to 1.2 mg/cm<sup>2</sup> (inclusive) at Action Level setting = 1.0 mg/cm<sup>2</sup>

**SUBSTRATE CORRECTION:**

Not applicable

**INCONCLUSIVE RANGE OR THRESHOLD:**

ACTION LEVEL MODE READING DESCRIPTION	SUBSTRATE	INCONCLUSIVE RANGE (mg/cm <sup>2</sup> )
Results not corrected for substrate bias on any substrate	Brick Concrete Drywall Metal Plaster Wood	0.4 – 0.6 0.4 – 0.6 0.4 – 0.6 0.4 – 0.6 0.4 – 0.6 0.4 – 0.6

## BACKGROUND INFORMATION

### EVALUATION DATA SOURCE AND DATE:

This sheet is supplemental information to be used in conjunction with Chapter 7 of the HUD *Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing*, 2012 Edition ("HUD Guidelines"). Performance parameters shown on this sheet are calculated using test results on building components in the HUD archive. Testing was conducted on 146 test samples in January 2020, with two separate instruments running software version Pb200i 5.0 (DEBUG version) in Action Level test mode. The actual source strength of each instrument on the day of testing was approximately 2.9 mCi; source ages were approximately 9 months.

### OPERATING PARAMETERS

Performance parameters shown in this sheet are applicable only when properly operating the instrument using the manufacturer's instructions and procedures described in Chapter 7 of the HUD Guidelines.

### XRF CALIBRATION CHECK:

The calibration of the XRF instrument should be checked with the Action Level set to 1.0 mg/cm<sup>2</sup> using the paint film nearest 1.0 mg/cm<sup>2</sup> in the NIST Standard Reference Material (SRM) used (e.g., for NIST SRM 2579, use the 1.02 mg/cm<sup>2</sup> film; for NIST SRM 2579a, use the 1.04 mg/cm<sup>2</sup> film).

If the average (rounded to 1 decimal place) of three readings is outside the acceptable calibration check range, follow the manufacturer's instructions to bring the instrument into control before XRF testing proceeds.

### EVALUATING THE QUALITY OF XRF TESTING:

Randomly select ten testing combinations for retesting from each house or from two randomly selected units in multifamily housing.

Conduct XRF re-testing at the ten testing combinations selected for retesting.

Determine if the XRF testing in the units or house passed or failed the test by applying the steps below. Compute the Retest Tolerance Limit by the following steps:

Determine XRF results for the original and retest XRF readings. In single-family and multi-family housing, a result is defined as a single reading. Therefore, there will be ten original and ten retest XRF results for each house or for the two selected units.

Calculate the average of the original XRF result and the retest XRF result for each testing combination.

Square the average for each testing combination.

Add the ten squared averages together. Call this quantity C.

Multiply the number C by 0.0072. Call this quantity D.

Add the number 0.032 to D. Call this quantity E.

Take the square root of E. Call this quantity F.

Multiply F by 1.645. The result is the Retest Tolerance Limit.

Compute the average of all ten original XRF readings.

Compute the average of all ten re-test XRF readings.

Find the absolute difference of the two averages.



If the difference is less than the Retest Tolerance Limit, the inspection has passed the retest. If the difference of the overall averages equals or exceeds the Retest Tolerance Limit, this procedure should be repeated with ten new testing combinations. If the difference of the overall averages is equal to or greater than the Retest Tolerance Limit a second time, then the inspection should be considered deficient.

Use of this procedure is estimated to produce a spurious result approximately 1% of the time. That is, results of this procedure will call for further examination when no examination is warranted in approximately 1 out of 100 dwelling units tested.

#### TESTING TIMES:

The instrument time to take a reading varied within a narrow range from 5 to 6 seconds, with a small number (3%) of longer times from 7 to 11 seconds. The longer readings were almost all on wood substrates. This range of reading times applies only to instruments with the same source strength as those tested (2.9 mCi at the time of PCS testing). Instruments with stronger sources will have shorter reading times and those with weaker sources, longer reading times.

#### CLASSIFICATION OF RESULTS:

XRF results are classified as **positive** if they are **greater than or equal** to 0.6 mg/cm<sup>2</sup>, **negative** if they are **less than or equal** to 0.4 mg/cm<sup>2</sup> and **inconclusive** if they are **equal** to 0.5 mg/cm<sup>2</sup>.

#### DOCUMENTATION:

This XRF Performance Characteristic Sheet (PCS) was developed by QuanTech, Inc., under a contract with the U.S. Department of Housing and Urban Development, Office of Lead Hazard Control and Healthy Homes.

A report titled *Methodology for XRF Performance Characteristic Sheets* (EPA 747-R-95-008) provides an explanation of the statistical methodology used to develop Performance Characteristic Sheets at the Federal standard (Action Level) of 1.0 mg/cm<sup>2</sup>, and provides empirical results from using the recommended inconclusive ranges or thresholds for specific XRF instruments. The report may be downloaded at <http://www2.epa.gov/lead/methodology-xrf-performance-characteristic-sheets-epa-747-r-95-008-september-1997>. The methodology was subsequently generalized by QuanTech for application to other Action Levels.