



# LEAD-BASED PAINT SCREENING REPORT

**FOR:**

**Rock Terrace School  
390 Martins Lane  
Rockville, MD 20850**

**Prepared For:**

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**Prepared and Submitted by:**

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*Date of Report: May 20, 2021*

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## 1.0 Introduction

KCI Technologies, Inc. (KCI) was retained by Montgomery County Public Schools (MCPS) (Client), to conduct a Lead-Based Paint Screening of Rock Terrace School located at 390 Martins Ln, Rockville, MD 20850.

The scope of work included a screening of interior and exterior components to determine general prevalence of lead based paint in sections of the building built before 1978. The survey included 89 XRF readings including 8 calibrations. Wall codes (A, B, C, D) were used to show location of building components. Wall "A" indicated the front facing wall parallel with the main entrance of the building with wall "B" being the next wall going clockwise in order, etc. The LBP testing results are included as Attachment A.

## 2.0 Lead Based Paint (LBP) Screening

Shakia Dawkins performed the lead based paint screening (Accreditation #17328). Ms. Dawkins performed the screening on May 13, 2021 in order to determine painted surfaces for lead content.

The testing for lead content in paints was performed with a Heuresis (model # Pb200i, serial # 1769, resourced on March 30, 2021) x-ray fluorescence (XRF) Spectrum Analyzer, an instrument that detects lead by reading the fluorescence emanating from a painted surface when exposed to small amounts of radiation. XRF readings are in mg/cm<sup>2</sup>, a mass per area reading.

LBP is defined as >0.7mg/cm<sup>2</sup> by Maryland Department of Environment and ≥1.0 mg/cm<sup>2</sup> by the U.S. Environmental Protection Agency (EPA) and the U. S. Dept. of Housing and Urban Development (HUD). The Occupational Safety and Health Administration (OSHA) Lead in Construction Standard (29 CFR 1926.62) defines lead based paint as any detectable amount and guidelines must be followed for any activity which may bring a worker in contact with lead. Therefore a negative classification based on the EPA/HUD definition does not necessarily mean the component is lead free. The LBP action level used is >0.7 mg/cm<sup>2</sup>.

Based on the testing results, Table 1 summarizes the components that contain lead levels >0.7mg/cm<sup>2</sup>:

Table 1: Summary of Positive XRF Readings									
Reading No.	Substrate	Component 1	Component 2	Color	Wall Code	Room	XRF Readings mg/cm <sup>2</sup>	Condition	Picture
5	Metal	Window	Casing	White	A	Exterior	1.4	Deteriorated	4
6	Metal	Window	Casing	White	A	Exterior	6	Deteriorated	4
7	Metal	Pole	-	Red	A	Exterior	2.6	Deteriorated	3
20	CMU	Wall	-	Tan	N/A	Hall	3.7	Intact	1
21	CMU	Wall	-	Tan	N/A	Hall	2.8	Intact	1
27	Wood	Bulletin board	-	Green	N/A	Hall	1.8	Intact	2
28	Wood	Bulletin board	-	Green	N/A	Hall	1.6	Intact	2

Table 1: Summary of Positive XRF Readings

Reading No.	Substrate	Component 1	Component 2	Color	Wall Code	Room	XRF Readings mg/cm <sup>2</sup>	Condition	Picture
29	Wood	Bulletin board	-	Green	N/A	Hall	1.6	Intact	2
83	Wood	Bulletin board	-	Green	N/A	Hall	1.6	Intact	2
84	Wood	Bulletin board	-	Green	N/A	Hall	1.6	Intact	2
85	Wood	Bulletin board	-	Green	N/A	Hall	1.7	Intact	2

Summary of lead containing components identified:

**Interior:**

- Tan CMU walls. Lead content detected at 2.8 – 3.7 mg/cm<sup>2</sup> (Photo 1)
- Green wood bulletin boards. Lead content detected at 1.6 – 1.8 mg/cm<sup>2</sup> (Photo 2)

**Exterior:**

- White metal window components. Lead content detected at 1.4 – 6 mg/cm<sup>2</sup> (Photo 4)
- Red metal pole. Lead content detected at 2.6 mg/cm<sup>2</sup> (Photo 3)

A labeled floor plan with example locations of lead based painted and/or containing components is included as Attachment B. Not all components are represented in the drawing. Photo examples of these components are included in Attachment C.

### 3.0 Recommendations

Primarily the lead in paint on a renovation project is regulated in two (2) ways: 1) airborne lead dust by the U.S. Occupational Safety and Health Administration (OSHA), and 2) lead in waste by the toxicity characteristic leachate procedure (TCLP) by EPA and MDE.

During renovation, it is recommended that the contractor follow OSHA "Lead in Construction" standard, in conjunction with dust control and containment to prevent lead contamination of the surrounding areas, and the use of personal protective clothing to protect worker health and safety during renovation.

KCI recommends that the construction waste containing LBP and Lead Containing Materials (LCM) generated during renovation be tested for the toxicity characteristic leachate procedure (TCLP) by EPA and MDE to determine the appropriate disposal method.

### 4.0 Disclaimer

This report has been prepared by KCI Technologies, Inc. exclusively for our Client and their Authorized Representatives. The findings and recommendations presented are based upon discussions with the Client of the present conditions, and may not necessarily indicate future conditions. KCI implies no warranty to the accuracy of information provided to them by the Client or outside agents and transmitted herein.

**Attachment A:**  
**Lead Based Paint XRF Datasheet**

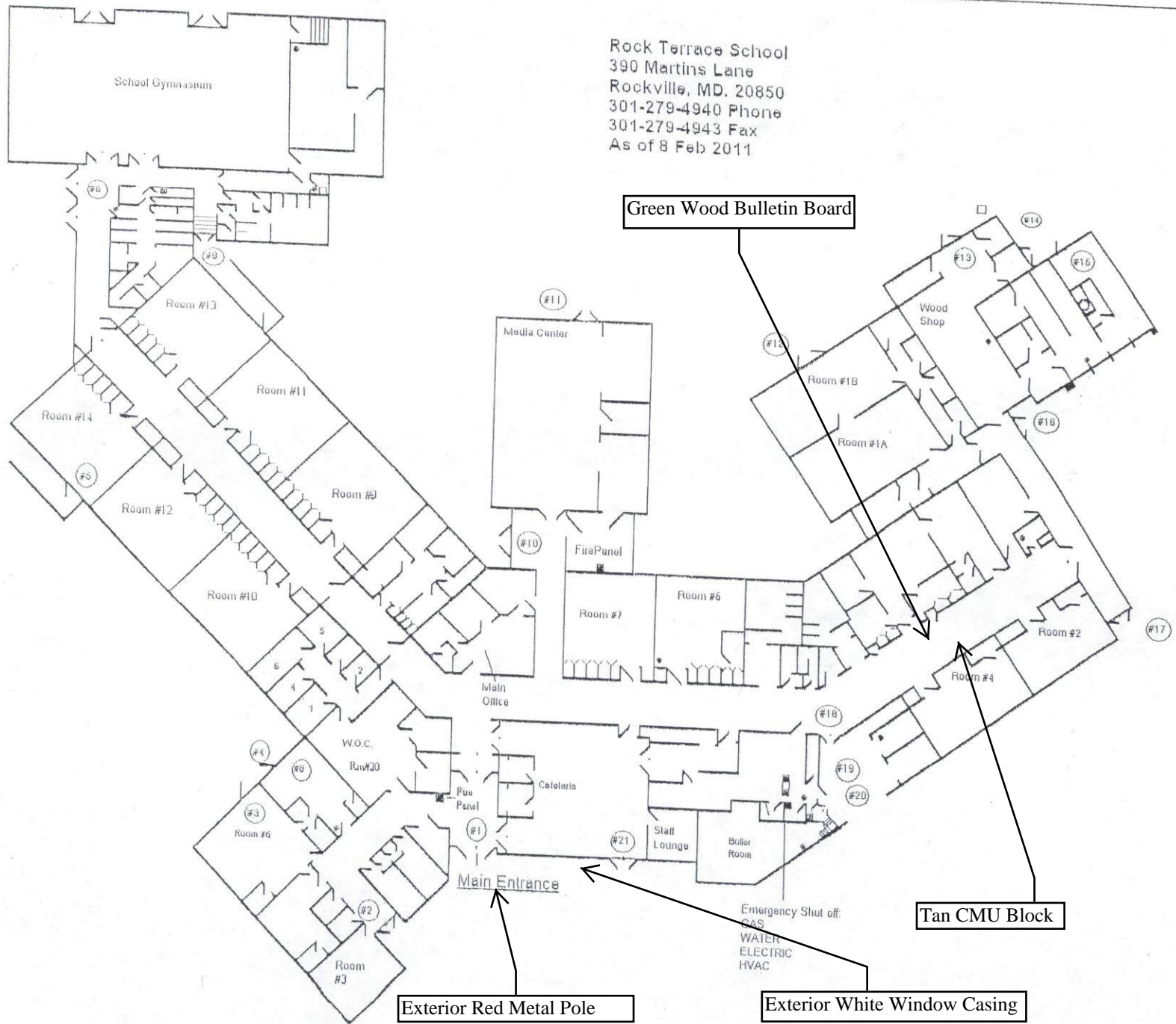
Index	Room	Component 1	Component 2	Wall Code	Substrate	Color	XRF Reading (mg/cm <sup>2</sup> )	Result	Condition	Address
1	Calibration	SRM-2579				Red	0.9			Rock Terrace School
2	Calibration	SRM-2579				Red	0.9			Rock Terrace School
3	Calibration	SRM-2579				Red	1.1			Rock Terrace School
4	Calibration	SRM-2570				White	0			Rock Terrace School
5	Exterior	Window	Casing	A	Metal	White	1.4	POS	Deteriorated	Rock Terrace School
6	Exterior	Window	Casing	A	Metal	White	6	POS	Deteriorated	Rock Terrace School
7	Exterior	Pole		A	Metal	Red	2.6	POS	Deteriorated	Rock Terrace School
8	Exterior	Door		A	Metal	Red	0.1	NEG	Intact	Rock Terrace School
9	Exterior	Door	Casing	A	Metal	Red	0.1	NEG	Intact	Rock Terrace School
10	Exterior	Wall		D	CMU	White	-0.2	NEG	Deteriorated	Rock Terrace School
11	Exterior	Wall		D	CMU	White	-0.4	NEG	Deteriorated	Rock Terrace School
12	Exterior	Wall		D	CMU	White	-0.4	NEG	Deteriorated	Rock Terrace School
13	Exterior	Door		D	Metal	Red	0	NEG	Deteriorated	Rock Terrace School
14	Exterior	Door		D	Metal	Red	0.1	NEG	Deteriorated	Rock Terrace School
15	Exterior	Door		C	Metal	Red	0.2	NEG	Deteriorated	Rock Terrace School
16	Exterior	Vent		C	Metal	Grey	0.1	NEG	Deteriorated	Rock Terrace School
17	Speech Room	Door	Jamb	D	Metal	Grey	0.6	NEG	Deteriorated	Rock Terrace School
18	Room 8	Door	Jamb	A	Metal	Grey	0.5	NEG	Deteriorated	Rock Terrace School
19	Cafe	Door	Jamb	A	Metal	Grey	0.4	NEG	Deteriorated	Rock Terrace School
20	Hall	Wall		N/A	CMU	Tan	3.7	POS	Intact	Rock Terrace School
21	Hall	Wall		N/A	CMU	Tan	2.8	POS	Intact	Rock Terrace School
22	Terrace Bistro	Wall		A	Drywall	Green	0.1	NEG	Intact	Rock Terrace School
23	Terrace Bistro	Wall		A	Drywall	Yellow	0.1	NEG	Intact	Rock Terrace School
24	Terrace Bistro	Wall		A	Drywall	Red	-0.1	NEG	Intact	Rock Terrace School
25	Terrace Bistro	Baseboard		A	Wood	Orange	0	NEG	Intact	Rock Terrace School
26	Hall	Bulletin Board		N/A	Wood	White	0	NEG	Intact	Rock Terrace School
27	Hall	Bulletin Board		N/A	Wood	Green	1.8	POS	Intact	Rock Terrace School
28	Hall	Bulletin Board		N/A	Wood	Green	1.6	POS	Intact	Rock Terrace School
29	Hall	Bulletin Board		N/A	Wood	Green	1.6	POS	Intact	Rock Terrace School
30	Wood shop	Wall		A	CMU	White	0.1	NEG	Intact	Rock Terrace School
31	Wood shop	Wall		A	CMU	White	-0.3	NEG	Intact	Rock Terrace School
32	Wood shop	Wall		A	CMU	White	-0.2	NEG	Intact	Rock Terrace School
33	Wood shop	Door		C	Metal	Red	0.1	NEG	Intact	Rock Terrace School
34	Wood shop	Door	Casing	C	Metal	Red	0.5	NEG	Intact	Rock Terrace School
35	Wood shop	Baseboard		C	Ceramic	White	-0.1	NEG	Intact	Rock Terrace School
36	Wood shop	Baseboard		C	Drywall	Green	0.1	NEG	Intact	Rock Terrace School
37	Wood shop	Baseboard		B	Wood	White	0	NEG	Intact	Rock Terrace School
38	Wood shop	Door	Jamb	B	Wood	Grey	-0.1	NEG	Deteriorated	Rock Terrace School
39	Wood shop	Wall		A	CMU	Blue	-0.2	NEG	Intact	Rock Terrace School
40	Wood shop	Wall		A	CMU	Blue	-0.1	NEG	Intact	Rock Terrace School
41	Wood shop	Wall		A	CMU	Blue	-0.2	NEG	Intact	Rock Terrace School
42	Wood shop	Baseboard		C	Ceramic	White	-0.2	NEG	Intact	Rock Terrace School
43	Wood shop	Door	Jamb	D	Metal	White	0.6	NEG	Intact	Rock Terrace School
44	Wood shop	Door	Jamb	D	Metal	White	0.6	NEG	Intact	Rock Terrace School
45	Wood shop	Door	Jamb	D	Metal	Grey	0.3	NEG	Intact	Rock Terrace School
46	Wood shop	Door	Jamb	D	Metal	Grey	0.5	NEG	Intact	Rock Terrace School
47	Wood shop	Door	Casing	B	Metal	Brown	0.6	NEG	Intact	Rock Terrace School
48	Service Bay 1	Wall		A	CMU	Grey	0	NEG	Intact	Rock Terrace School
49	Service Bay 1	Wall		B	CMU	Grey	-0.1	NEG	Intact	Rock Terrace School
50	Service Bay 1	Wall		C	CMU	Grey	0.1	NEG	Intact	Rock Terrace School
51	Service Bay 1	Wall		D	CMU	White	-0.4	NEG	Intact	Rock Terrace School
52	Service Bay 2	Wall		A	CMU	White	-0.2	NEG	Intact	Rock Terrace School
53	Service Bay 2	Wall		C	CMU	Grey	0.1	NEG	Intact	Rock Terrace School
54	1B	Wall		B	CMU	Blue	-0.2	NEG	Intact	Rock Terrace School
55	1B	Wall		A	CMU	White	0	NEG	Intact	Rock Terrace School
56	1B	Wall		A	Drywall	White	0.1	NEG	Intact	Rock Terrace School
57	1B	Wall		C	CMU	White	-0.6	NEG	Intact	Rock Terrace School
58	1B	Wall		D	CMU	White	0	NEG	Intact	Rock Terrace School
59	1B	Baseboard		D	Rubber	Black	0	NEG	Deteriorated	Rock Terrace School
60	1B	Door		D	Metal	Red	0.1	NEG	Deteriorated	Rock Terrace School
61	1B	Door		C	Metal	Red	0.1	NEG	Deteriorated	Rock Terrace School
62	1B	Door	Jamb	C	Metal	Off-white	0.5	NEG	Deteriorated	Rock Terrace School
63	1A	Door	Jamb	C	Metal	Off-white	0.1	NEG	Deteriorated	Rock Terrace School

64	1A	Baseboard		C	Rubber	Black	0.1	NEG	Intact	Rock Terrace School
65	1A	Window	Casing	D	Metal	Grey	0.4	NEG	Intact	Rock Terrace School
66	1A	Wall		A	CMU	White	-0.1	NEG	Intact	Rock Terrace School
67	1A	Wall		B	CMU	Blue	-0.3	NEG	Intact	Rock Terrace School
68	1A	Wall		C	Drywall	White	0.2	NEG	Intact	Rock Terrace School
69	1A	Wall		D	CMU	White	0	NEG	Intact	Rock Terrace School
70	Hall	Wall		N/A	CMU	Green	-0.4	NEG	Intact	Rock Terrace School
71	ESOL Room	Wall		A	CMU	Purple	-0.2	NEG	Intact	Rock Terrace School
72	ESOL Room	Wall		A	CMU	Purple	-0.3	NEG	Intact	Rock Terrace School
73	ESOL Room	Baseboard		A	Rubber	Brown	-0.3	NEG	Intact	Rock Terrace School
74	IMC Room	Wall		A	CMU	Off-white	-0.2	NEG	Intact	Rock Terrace School
75	IMC Room	Wall		B	CMU	Yellow	0.3	NEG	Intact	Rock Terrace School
76	IMC Room	Wall		C	CMU	Off-white	-0.2	NEG	Intact	Rock Terrace School
77	IMC Room	Wall		D	CMU	Yellow	0	NEG	Intact	Rock Terrace School
78	Hall	Bulletin Board		N/A	Wood	Yellow	0	NEG	Intact	Rock Terrace School
79	Hall	Bulletin Board		N/A	Wood	Green	0	NEG	Intact	Rock Terrace School
80	Hall	Bulletin Board		N/A	Wood	Green	0.1	NEG	Intact	Rock Terrace School
81	Hall	Bulletin Board		N/A	Wood	Green	0.1	NEG	Intact	Rock Terrace School
82	Hall	Bulletin Board		N/A	Wood	Green	0	NEG	Intact	Rock Terrace School
83	Hall	Bulletin Board		N/A	Wood	Green	1.6	POS	Intact	Rock Terrace School
84	Hall	Bulletin Board		N/A	Wood	Green	1.6	POS	Intact	Rock Terrace School
85	Hall	Bulletin Board		N/A	Wood	Green	1.7	POS	Intact	Rock Terrace School
86	Calibration	SRM-2579				Red	1			Rock Terrace School
87	Calibration	SRM-2579				Red	1			Rock Terrace School
88	Calibration	SRM-2579				Red	1			Rock Terrace School
89	Calibration	SRM-2570				White	0			Rock Terrace School

**Attachment B:**  
**Labeled Floor Plan**



Rock Terrace School  
390 Martins Lane  
Rockville, MD. 20850  
301-279-4940 Phone  
301-279-4943 Fax  
As of 8 Feb 2011



Green Wood Bulletin Board

Tan CMU Block

Exterior Red Metal Pole

Exterior White Window Casing

*Ceiling tile no asbestos containing material*

Map Revision Done By:  
School Security Officer  
Myron E. Morrell

**Attachment C:**  
**Photographs**



Picture 1: Tan CMU Block



Picture 2: Green Wood Bulletin Board



Picture 3: Exterior Red Metal Pole



Picture 4: Exterior White Metal Window Casing