



## **LEAD-BASED PAINT INSPECTION REPORT**

**FOR**

**CLIENT**

**City of Spartanburg  
City Hall 145 W. Broad St.  
Spartanburg, South Carolina 29306  
Contact Phone: (64) 580-5011**

**LOCATION**

**108 Hudson Street  
Spartanburg, South Carolina**

**ASSESSMENT DATE: June 25, 2020**

**REPORT DATE: July 2, 2020**

**INSPECTOR**

**Kay H. Horton  
Lead Inspector's Certification #: LBP-R-117167-2**

**For**

**Crossroads Environmental, LLC  
1258 Boiling Springs Road  
Spartanburg, South Carolina 29303  
(864) 541-8736  
CRE Project # 19113-IL**

**LEAD-BASED PAINT INSPECTION REPORT  
108 HUDSON STREET  
SPARTANBURG, SOUTH CAROLINA**

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**PROJECT NUMBER: 19113-IL**

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**LEAD INSPECTION REPORT**  
**108 HUDSON STREET, SPARTANBURG, SOUTH CAROLINA**  
**CRE PROJECT NUMBER: 19113-IL**

**SUMMARY**

Crossroads Environmental, LLC (CRE) performed a lead-based paint inspection of the structure located at 108 Hudson Street in Spartanburg, South Carolina. The inspection was performed on June 25, 2020 by an EPA Accredited Lead Inspector/Risk Assessor.

According to the Environmental Protection Agency (EPA), paint containing  $\geq 1$  milligram per square centimeter ( $\text{mg}/\text{cm}^2$ ) of lead using an XRF or 0.5% by weight (paint chip analysis) is considered lead-based paint (LBP). The EPA Primary Drinking Water Regulations and South Carolina Department of Health and Environmental Control (SC-DHEC), states that the EPA Maximum Contaminant Level (MCL) for lead is 0.015 mg/L.

Lead-based paint was detected in various areas throughout the interior of the structure, as well as exterior wood trim (overhang supports, roof overhang, window frames, etc.).

A soil sample was collected at the dripline (no child play area was identified); as well as a water sample from the kitchen sink. Lead concentration levels were well below EPA's guidance level of 1200 parts per million in non-play areas (dripline). The water sample collected from the kitchen sink reported that no lead was detected.

**PART I: IDENTIFYING INFORMATION/SITE DESCRIPTION**

Crossroads Environmental, LLC was contracted by City of Spartanburg to perform a lead assessment of the structure located at 108 Hudson Street in Spartanburg, South Carolina. The Inspection was performed by Kay H. Horton, SC Accredited Lead Risk Assessor, Certification No. LBP-R-117167-2, Expiration Date 12/27/2022.

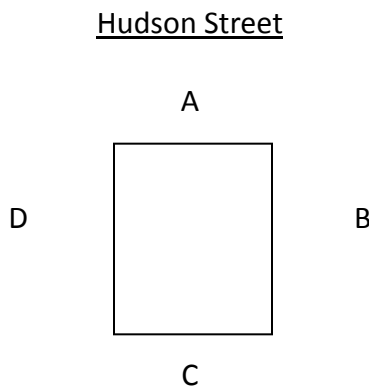
The structure located at 108 Hudson Street in Spartanburg, South Carolina is a single-story concrete block structure with Transite siding, atop an unfinished basement foundation. The interior consists of plaster walls throughout with wood trim. There was no outdoor play area identified.

**PART II: SAMPLING PROTOCOL & RESULTS**

The inspection was performed using a Niton XLp 300 (Serial #: 20420) analyzer, which does not require substrate correction. Following proper calibration of the XRF, representative components were tested for lead content. The surface-by-surface

inspection was performed according to US Department of Housing and Urban Development (HUD) *Guidelines for the Evaluation and Control of Lead-based Paint Hazards*, second edition, July 2012. A water sample was collected in prepared sterile bottles using EPA protocol. "First Draw" samples could not be collected from respective sinks as residents had already used faucets during morning routines. Following sample collection, the sample was delivered to Pace Analytical (SC DHEC Certification No. 32010001) on June 25, 2020 for analysis. All lead results are included in the Table I. included as Attachment I.

For report purposes, the following building/room side designations utilized in the results table included as Attachment I are as follow:



According to the Environmental Protection Agency (EPA), paint containing  $\geq 1$  milligram per square centimeter ( $\text{mg}/\text{cm}^2$ ) of lead using an XRF or 0.5% by weight (paint chip analysis) is considered lead-based paint (LBP).

**Lead-based paint was detected on off-white wood door components within the kitchen and bedroom #2; white wood door components of the laundry room; off-white wood window components of the dining room, restroom, and kitchen; navy wood window sash of the restroom; the green wood column of the laundry room; green wood ceiling of the laundry room; white wood window components of the porch; yellow wood porch header; white wood porch support beams; and white wood porch overhang.**

In addition to paint testing, a composite soil sample was collected from the dripline, as well as a water sample from the kitchen sink. Samples were shipped to an accredited laboratory for analysis by atomic absorption spectroscopy (AAS) analysis. The lead concentration in the dripline soil was below EPA's recommended limit of 1,200 parts per million (ppm) for non-play areas. No lead was reported in the water sample.

### **PART III: ASSESSMENT & RECOMMENDATIONS**

Of the lead components identified within the structure only the wood door of the kitchen, wood windows of the dining room, and various wood components within the laundry room are in poor condition (peeling/cracking).

Lead-based paint on exterior window components, columns, and overhangs have minor cracking and peeling. The paint on exterior is in overall good condition, but does have minor peeling.

The following are considered hazards due to the presence of lead-based paint on friction and impact surfaces, which can create a lead dust hazard:

- Lead-based paint on exterior of windows and window casing

The following are considered potential hazards due to the lead-based paint cracking and chipping:

- Exterior window casing, columns, railing, and wood trim, including overhangs.

The following Interim Control Measures are recommended, and are prioritized below, with 1 being the highest priority.

- 1) Paint stabilization of all wooden components that cannot be feasibly wrapped (roof overhang, supports, columns, rails, etc.).
- 2) Replacement of doors painted with lead-based paint.
- 3) Replacement of windows. Note: If it is not financially feasible to replace the windows, they should remain closed since, with the exception of the bathroom window and kitchen window, the lead is on the exterior and window troughs.
- 4) Professional wrapping of all window casing by means of vinyl, aluminum, etc. if entire components cannot feasibly be replaced.

### **PART IV: CLOSING STATEMENTS**

Although standard protocol was followed and the lead testing was performed under accepted quality control practices, the information regarding lead is limited to the exact location sampled; therefore, LBP may exist on areas not tested (behind walls, etc.).

This document has been prepared by Crossroads Environmental, LLC at the request of and for the exclusive use of City of Spartanburg. This report represents the findings from the date that it was inspected, and is limited in scope to that indicated above.

Crossroads Environmental, LLC appreciates the opportunity to provide the City of Spartanburg with our consultative services. Should you have any questions or need additional information, please do not hesitate to contact us.

**CROSSROADS ENVIRONMENTAL, LLC**

A handwritten signature in black ink, appearing to read "Kay H. Horton", with a stylized flourish at the end.

Kay H. Horton  
Certified Lead Inspector/Risk Assessor

**ATTACHMENT I  
XRF READINGS  
& PCS SHEET**

READING NO.	TIME	TYPE	FLOOR	ROOM	COMPONENT	COLOR	SUBSTRATE	PART	SIDE	CONDITION	RESULTS	PBC
1306	6/25/2020 8:22	ShutterCal										2.28
1307	6/25/2020 8:44	Paint	1ST	KITCHEN	WALL	OFF-WHITE	PLASTER		A	INTACT	Negative	0.08
1308	6/25/2020 8:44	Paint	1ST	KITCHEN	WALL	OFF-WHITE	PLASTER		B	INTACT	Negative	0.13
1309	6/25/2020 8:44	Paint	1ST	KITCHEN	WALL	OFF-WHITE	PLASTER		C	INTACT	Negative	0.11
1310	6/25/2020 8:45	Paint	1ST	KITCHEN	WALL	OFF-WHITE	PLASTER		D	INTACT	Negative	0.01
1311	6/25/2020 8:45	Paint	1ST	KITCHEN	DOOR	BLACK	WOOD	CASING	A	INTACT	Negative	0
1312	6/25/2020 8:46	Paint	1ST	KITCHEN	DOOR	OFF-WHITE	WOOD		C	CRACKING	Positive	3.9
1313	6/25/2020 8:47	Paint	1ST	KITCHEN	DOOR	OFF-WHITE	WOOD	JAMB	C	CRACKING	Positive	2.2
1314	6/25/2020 8:47	Paint	1ST	KITCHEN	BASEBOARD	BLACK	WOOD		A	CRACKING	Negative	0.01
1315	6/25/2020 8:48	Paint	1ST	DINING RM.	WALL	BEIGE	PLASTER		A	PEELING	Negative	0.02
1316	6/25/2020 8:49	Paint	1ST	DINING RM.	WALL	BEIGE	PLASTER		B	PEELING	Negative	0.02
1317	6/25/2020 8:49	Paint	1ST	DINING RM.	WALL	BEIGE	PLASTER		C	PEELING	Negative	0.07
1318	6/25/2020 8:50	Paint	1ST	DINING RM.	WALL	BEIGE	PLASTER		D	PEELING	Negative	0.02
1319	6/25/2020 8:50	Paint	1ST	DINING RM.	CHAIR RAIL	WHITE	WOOD		D	PEELING	Negative	0
1320	6/25/2020 8:51	Paint	1ST	DINING RM.	WINDOW	OFF-WHITE	WOOD	SILL	D	INTACT	Negative	0.02
1321	6/25/2020 8:52	Paint	1ST	DINING RM.	WINDOW	OFF-WHITE	WOOD	SASH	D	INTACT	Negative	0.01
1322	6/25/2020 8:52	Paint	1ST	DINING RM.	WINDOW	OFF-WHITE	WOOD	TROUGH	D	PEELING	Negative	0.8
1323	6/25/2020 8:53	Paint	1ST	DINING RM.	WINDOW	OFF-WHITE	WOOD	TROUGH	D	PEELING	Positive	1.4
1324	6/25/2020 8:54	Paint	1ST	DINING RM.	BASEBOARD	OFF-WHITE	WOOD		D	INTACT	Negative	0.03
1325	6/25/2020 8:55	Paint	1ST	LIVING RM.	WALL	BEIGE	PLASTER		A	INTACT	Negative	0.02
1326	6/25/2020 8:56	Paint	1ST	LIVING RM.	WALL	BEIGE	PLASTER		B	INTACT	Negative	0.07
1327	6/25/2020 8:56	Paint	1ST	LIVING RM.	WALL	BEIGE	PLASTER		C	INTACT	Negative	0.02
1328	6/25/2020 8:57	Paint	1ST	LIVING RM.	WALL	BEIGE	PLASTER		D	INTACT	Negative	0.05
1329	6/25/2020 8:57	Paint	1ST	LIVING RM.	BASEBOARD	OFF-WHITE	WOOD		C	INTACT	Negative	0.24
1330	6/25/2020 8:57	Paint	1ST	LIVING RM.	BASEBOARD	OFF-WHITE	WOOD		C	INTACT	Negative	0.04
1331	6/25/2020 8:58	Paint	1ST	LIVING RM.	SURROUND	OFF-WHITE	WOOD		C	INTACT	Negative	0.05
1332	6/25/2020 8:59	Paint	1ST	LIVING RM.	DOOR	OFF-WHITE	WOOD	CASING	C	PEELING	Negative	0.03
1333	6/25/2020 9:00	Paint	1ST	LIVING RM.	DOOR	BROWN	WOOD		A	INTACT	Negative	0
1334	6/25/2020 9:00	Paint	1ST	LIVING RM.	DOOR	OFF-WHITE	WOOD	JAMB	C	INTACT	Negative	0.04
1335	6/25/2020 9:00	Paint	1ST	LIVING RM.	DOOR	OFF-WHITE	WOOD		C	INTACT	Negative	0.14
1336	6/25/2020 9:02	Paint	1ST	BEDROOM 1	WALL	GRAY	PLASTER		A	INTACT	Negative	0
1337	6/25/2020 9:02	Paint	1ST	BEDROOM 1	WALL	GRAY	PLASTER		B	INTACT	Negative	0.02
1338	6/25/2020 9:02	Paint	1ST	BEDROOM 1	WALL	GRAY	PLASTER		C	INTACT	Negative	0.05
1339	6/25/2020 9:03	Paint	1ST	BEDROOM 1	WALL	GRAY	PLASTER		D	INTACT	Negative	0.03
1340	6/25/2020 9:04	Paint	1ST	BEDROOM 1	WINDOW	BROWN	WOOD	SILL	A	PEELING	Negative	0.01
1341	6/25/2020 9:04	Paint	1ST	BEDROOM 1	WINDOW	BROWN	WOOD	SASH	A	PEELING	Negative	0.01
1342	6/25/2020 9:05	Paint	1ST	BEDROOM 1	WINDOW	BROWN	WOOD	CASING	A	PEELING	Negative	0.01
1343	6/25/2020 9:05	Paint	1ST	BEDROOM 1	DOOR	GRAY	WOOD	JAMB	A	PEELING	Negative	0.01
1344	6/25/2020 9:05	Paint	1ST	BEDROOM 1	DOOR	OFF-WHITE	WOOD		A	PEELING	Negative	0
1345	6/25/2020 9:06	Paint	1ST	BEDROOM 1	DOOR	OFF-WHITE	WOOD		A	PEELING	Negative	0.01
1346	6/25/2020 9:06	Paint	1ST	BEDROOM 1	BASEBOARD	GRAY	WOOD		C	INTACT	Negative	0
1347	6/25/2020 9:07	Paint	1ST	BATHROOM 1	DOOR	OFF-WHITE	WOOD	JAMB	D	PEELING	Negative	0.03
1348	6/25/2020 9:08	Paint	1ST	BATHROOM 1	DOOR	BLACK	WOOD	CASING	D	PEELING	Negative	0
1349	6/25/2020 9:08	Paint	1ST	BATHROOM 1	DOOR	BLACK	WOOD	CASING	A	PEELING	Negative	0.3
1350	6/25/2020 9:09	Paint	1ST	BATHROOM 1	DOOR	OFF-WHITE	WOOD	JAMB	A	PEELING	Negative	0
1351	6/25/2020 9:10	Paint	1ST	BATHROOM 1	WALL	GRAY	PLASTER		A	INTACT	Negative	0.21
1352	6/25/2020 9:11	Paint	1ST	BATHROOM 1	WALL	GRAY	PLASTER		B	INTACT	Negative	0.29
1353	6/25/2020 9:11	Paint	1ST	BATHROOM 1	WALL	GRAY	PLASTER		C	INTACT	Negative	0.17
1354	6/25/2020 9:12	Paint	1ST	BATHROOM 1	WALL	GRAY	PLASTER		D	INTACT	Negative	0.22
1355	6/25/2020 9:12	Paint	1ST	BATHROOM 1	WINDOW	NAVY	WOOD	SILL	D	INTACT	Negative	0.1
1356	6/25/2020 9:13	Paint	1ST	BATHROOM 1	WINDOW	NAVY	WOOD	SASH	D	INTACT	Positive	2.1
1357	6/25/2020 9:14	Paint	1ST	BATHROOM 1	WINDOW	OFF-WHITE	WOOD	TROUGH	C	INTACT	Positive	4.5
1358	6/25/2020 9:15	Paint	1ST	BATHROOM 1	BASEBOARD	NAVY	WOOD		B	INTACT	Negative	0.01
1359	6/25/2020 9:16	Paint	1ST	BEDROOM 2	WALL	OFF-WHITE	PLASTER		A	INTACT	Negative	0.01
1360	6/25/2020 9:17	Paint	1ST	BEDROOM 2	WALL	OFF-WHITE	PLASTER		B	INTACT	Negative	0.04
1361	6/25/2020 9:17	Paint	1ST	BEDROOM 2	WALL	OFF-WHITE	PLASTER		C	INTACT	Negative	0.12
1362	6/25/2020 9:18	Paint	1ST	BEDROOM 2	WALL	OFF-WHITE	PLASTER		D	INTACT	Negative	0.06
1363	6/25/2020 9:18	Paint	1ST	BEDROOM 2	BASEBOARD	OFF-WHITE	WOOD		D	INTACT	Negative	0.01
1364	6/25/2020 9:19	Paint	1ST	BEDROOM 2	WINDOW	OFF-WHITE	WOOD	SILL	C	INTACT	Negative	0
1365	6/25/2020 9:19	Paint	1ST	BEDROOM 2	WINDOW	OFF-WHITE	WOOD	SASH	C	INTACT	Negative	0.03
1366	6/25/2020 9:19	Paint	1ST	BEDROOM 2	DOOR	OFF-WHITE	WOOD	JAMB	A	INTACT	Negative	0.04
1367	6/25/2020 9:20	Paint	1ST	BEDROOM 2	DOOR	OFF-WHITE	WOOD		A	INTACT	Positive	1.2
1368	6/25/2020 9:21	Paint	1ST	BEDROOM 2	DOOR	OFF-WHITE	WOOD		A	INTACT	Positive	1.5
1369	6/25/2020 9:21	Paint	1ST	BEDROOM 2	DOOR	OFF-WHITE	WOOD		A	INTACT	Positive	1.1
1370	6/25/2020 9:22	Paint	1ST	HALLWAY	DOOR	OFF-WHITE	WOOD		B	PEELING	Negative	0.4
1371	6/25/2020 9:23	Paint	1ST	HALLWAY	DOOR	OFF-WHITE	WOOD	JAMB	B	PEELING	Negative	0.06
1372	6/25/2020 9:24	Paint	1ST	HALLWAY	CHAIR	GREEN	WOOD		B	PEELING	Negative	0.02
1373	6/25/2020 9:24	Paint	1ST	HALLWAY	DOOR	OFF-WHITE	WOOD		B	INTACT	Negative	0.28
1374	6/25/2020 9:25	Paint	1ST	BEDROOM 2	WALL	PAPER	PLASTER		A	PEELING	Negative	0.03
1375	6/25/2020 9:26	Paint	1ST	BEDROOM 2	WALL	PAPER	PLASTER		B	PEELING	Negative	0.05
1376	6/25/2020 9:26	Paint	1ST	BEDROOM 2	WALL	PAPER	PLASTER		C	PEELING	Negative	0.02
1377	6/25/2020 9:27	Paint	1ST	BEDROOM 2	WALL	PAPER	PLASTER		D	PEELING	Negative	0.02
1378	6/25/2020 9:27	Paint	1ST	BEDROOM 2	DOOR	OFF-WHITE	WOOD		A	PEELING	Negative	0.9



1379	6/25/2020 9:28	Paint	1ST	BEDROOM 2	DOOR	OFF-WHITE	WOOD		A	PEELING	Negative	0.4
1380	6/25/2020 9:28	Paint	1ST	BEDROOM 2	DOOR	OFF-WHITE	WOOD	JAMB	A	PEELING	Negative	0.04
1381	6/25/2020 9:28	Paint	1ST	BEDROOM 2	DOOR	OFF-WHITE	WOOD		A	PEELING	Negative	0.5
1382	6/25/2020 9:29	Paint	1ST	BEDROOM 2	DOOR	OFF-WHITE	WOOD		A	PEELING	Negative	0.4
1383	6/25/2020 9:29	Paint	1ST	HALLWAY	DOOR	OFF-WHITE	WOOD		D	PEELING	Negative	0.8
1384	6/25/2020 9:30	Paint	1ST	HALLWAY	DOOR	OFF-WHITE	WOOD		D	PEELING	Negative	0.5
1385	6/25/2020 9:30	Paint	1ST	HALLWAY	DOOR	GREEN	WOOD	JAMB	D	PEELING	Negative	0.02
1386	6/25/2020 9:31	Paint	1ST	STAIRWELL	WALL	OFF-WHITE	PLASTER		D	INTACT	Negative	0
1387	6/25/2020 9:32	Paint	1ST	STAIRWELL	WALL	GRAY	WOOD		D	CRACKING	Negative	0.1
1388	6/25/2020 9:33	Paint	BASEMENT		WALL	GRAY	CONCRETE		D	CRACKING	Negative	0
1389	6/25/2020 9:35	Paint	BASEMENT		PIPE						Negative	0.16
1390	6/25/2020 9:36	Paint	BASEMENT		WALL	OFF-WHITE	CONCRETE		A		Negative	0
1391	6/25/2020 9:36	Paint	BASEMENT		WALL	OFF-WHITE	CONCRETE		B		Negative	0
1392	6/25/2020 9:37	Paint	BASEMENT		WALL	OFF-WHITE	CONCRETE		C		Negative	0
1393	6/25/2020 9:39	Paint	1ST	BEDROOM 1	DOOR	GRAY	WOOD		C	PEELING	Negative	0.5
1394	6/25/2020 9:40	Paint	1ST	BEDROOM 1	DOOR	GRAY	WOOD	JAMB	C	PEELING	Negative	0.01
1395	6/25/2020 9:41	Paint	1ST	KITCHEN	WINDOW	BLACK	WOOD	SILL	D	PEELING	Negative	0.05
1396	6/25/2020 9:41	Paint	1ST	KITCHEN	WINDOW	OFF-WHITE	WOOD	SASH	D	PEELING	Positive	1.7
1397	6/25/2020 9:42	Paint	1ST	KITCHEN	CABINET	BLACK	WOOD		D	PEELING	Negative	0.01
1398	6/25/2020 9:42	Paint	1ST	KITCHEN	CABINET	BLACK	WOOD		D	PEELING	Negative	0.07
1399	6/25/2020 9:44	Paint	1ST	LAUNDRY	COLUMN	GREEN	WOOD		B	PEELING	Positive	1
1400	6/25/2020 9:44	Paint	1ST	LAUNDRY	COLUMN	GREEN	WOOD		B	PEELING	Negative	0.8
1401	6/25/2020 9:45	Paint	1ST	LAUNDRY	COLUMN	GREEN	WOOD		B	PEELING	Negative	0.4
1402	6/25/2020 9:46	Paint	1ST	LAUNDRY	CEILING	GREEN	WOOD			PEELING	Positive	1.2
1403	6/25/2020 9:46	Paint	1ST	LAUNDRY	CEILING	GREEN	WOOD			PEELING	Positive	1.7
1404	6/25/2020 9:47	Paint	1ST	LAUNDRY	WALL	GREEN	TRANSITE		A	PEELING	Negative	0.08
1405	6/25/2020 9:47	Paint	1ST	LAUNDRY	DOOR	WHITE	WOOD	CASING	A	PEELING	Positive	4.9
1406	6/25/2020 9:48	Paint	1ST	LAUNDRY	DOOR	RED	WOOD		C	PEELING	Negative	0
1407	6/25/2020 9:49	Paint	1ST	LAUNDRY	SIDING	YELLOW	WOOD		C	PEELING	Negative	0
1408	6/25/2020 9:50	Paint	1ST	LAUNDRY	SIDING	GREEN	TRANSITE		C	PEELING	Negative	0.01
1409	6/25/2020 9:50	Paint	1ST	LAUNDRY	SIDING	GREEN	TRANSITE		C	PEELING	Negative	0.01
1410	6/25/2020 9:51	Paint	1ST	EXTERIOR	WINDOW	WHITE	WOOD	SILL	C	PEELING	Positive	1.5
1411	6/25/2020 9:52	Paint	1ST	EXTERIOR	WINDOW	WHITE	WOOD	SASH	C	PEELING	Positive	1.4
1412	6/25/2020 9:53	Paint	1ST	EXTERIOR	WINDOW	YELLOW	TRANSITE		B	PEELING	Negative	0.01
1413	6/25/2020 9:54	Paint	1ST	EXTERIOR	FOUNDATION	GREEN	CONCRETE		B	PEELING	Negative	0
1414	6/25/2020 9:56	Paint	1ST	PORCH	HEADER	YELLOW	WOOD		A	PEELING	Positive	4.2
1415	6/25/2020 9:57	Paint	1ST	PORCH	SUPPORTS	WHITE	WOOD		A	PEELING	Positive	1.4
1416	6/25/2020 9:57	Paint	1ST	PORCH	OVERHANG	WHITE	WOOD		A	PEELING	Positive	4.6
1417	6/25/2020 9:58	Paint	1ST	PORCH	SHUTTER	BLACK	WOOD		A	INTACT	Negative	0.01
1418	6/25/2020 9:59	Paint	1ST	PORCH	FLOOR	BLACK	CONCRETE		A	PEELING	Negative	0.02

## Performance Characteristic Sheet

EFFECTIVE DATE: September 24, 2004

EDITION NO.: 1

### MANUFACTURER AND MODEL:

Make: Niton LLC

Tested Model: XLp 300

Source:  $^{109}\text{Cd}$ 

Note: This PCS is also applicable to the equivalent model variations indicated below, for the Lead-in-Paint K+L variable reading time mode, in the XLi and XLp series:

XLi 300A, XLi 301A, XLi 302A and XLi 303A.

XLp 300A, XLp 301A, XLp 302A and XLp 303A.

XLi 700A, XLi 701A, XLi 702A and XLi 703A.

XLp 700A, XLp 701A, XLp 702A, and XLp 703A.

Note: The XLi and XLp versions refer to the shape of the handle part of the instrument. The differences in the model numbers reflect other modes available, in addition to Lead-in-Paint modes. The manufacturer states that specifications for these instruments are identical for the source, detector, and detector electronics relative to the Lead-in-Paint mode.

### FIELD OPERATION GUIDANCE

#### OPERATING PARAMETERS:

Lead-in-Paint K+L variable reading time mode.

#### XRF CALIBRATION CHECK LIMITS:

0.8 to 1.2 mg/cm<sup>2</sup> (inclusive)

The calibration of the XRF instrument should be checked 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).

If readings are outside the acceptable calibration check range, follow the manufacturer's instructions to bring the instruments into control before XRF testing proceeds.

#### SUBSTRATE CORRECTION:

For XRF results using Lead-in-Paint K+L variable reading time mode, substrate correction is not needed for:

Brick, Concrete, Drywall, Metal, Plaster, and Wood

#### INCONCLUSIVE RANGE OR THRESHOLD:

K+L MODE READING DESCRIPTION	SUBSTRATE	THRESHOLD (mg/cm <sup>2</sup> )
Results not corrected for substrate bias on any substrate	Brick	1.0
	Concrete	1.0
	Drywall	1.0
	Metal	1.0
	Plaster	1.0
	Wood	1.0

**ATTACHMENT II**  
**LABORATORY REPORTS**



# Analysis for Lead Concentration in Soil Samples

by Flame Atomic Absorption Spectroscopy  
EPA SW-846 3050B/6010C/7000B



**Customer:** Crossroads Environmental LLC  
1258 Boiling Springs Rd  
Spartanburg, SC 29303

**Attn:** Kay Horton

**Lab Order ID:** 71945162

**Analysis ID:** 71945162\_PBS

**Date Received:** 6/26/2020

**Date Reported:** 6/29/2020

**Project:** 19113-IL

Sample ID	Description	Mass (g)	Concentration (ppm)	Concentration (% by weight)
Lab Sample ID	Lab Notes			
0015	Dripline soil	1.8073	120	0.012%
71945162PBS_1				

Unless otherwise noted blank sample correction was not performed on analytical results. Scientific Analytical Institute participates in the AIHA ELPAT program. ELPAT Laboratory ID: 173190. This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAI. Analytical uncertainty available upon request. The quality control samples run with the samples in this report have passed all EPA required specifications unless otherwise noted. RL: (Report Limit for an undiluted 50ml sample is 4µg Total Pb).

Matthew Caffey (1)

Analyst

Laboratory Director

71945162

CROSSROADS ENVIRONMENTAL, LLC  
Sample Chain of Custody  
1258 Boiling Springs Road  
Spartanburg, SC 29303  
Phone (864) 541-8736  
Fax (864) 541-8776  
results@crossroadsenv.net

Date Sent: 6/25/20  
Project ID#: 19113-IL  
Submitted to: SAE  
Number of Samples: 1  
Fax Results: email ✓  
Shipping Info: Fedex # 810034678082

Type of Analysis:  
 PCM  
 Air  
 PLM  
 Bulk  
 TEM  
 AAS  
 Other  
Air \_\_\_ Chips/  
Bulk \_\_\_ Wipes \_\_\_  
Water \_\_\_

Turn Around:  
 24 HR  
 48 HR  
 72 HR  
 5 Day  
Other: \_\_\_\_\_  
Special Instructions:  
 Stop Positive  PLM any layers not TEM'd

Sample ID#	DESCRIPTION OF SAMPLE	COMMENTS
0015	dripline soil	

Signature & Date of Handlers:  
Relinquished By: *Ray H. Harts*  
Relinquished By: \_\_\_\_\_  
Relinquished By: \_\_\_\_\_  
Received By: \_\_\_\_\_  
Received By: \_\_\_\_\_  
Received By: \_\_\_\_\_



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## Report of Analysis

**Crossroads Environmental, LLC**  
1258 Boiling Springs Road  
Spartanburg, SC 29303  
Attention: Kay Horton

Project Name: Kitchen Sink

Project Number: 19113-IL

Lot Number: **VF26081**

Date Completed: 07/01/2020

07/02/2020 9:45 AM

Approved and released by:  
Lab Director - Greenville: **Lucas Odom**



The electronic signature above is the equivalent of a handwritten signature.  
This report shall not be reproduced, except in its entirety, without the written approval of Pace Analytical Services, LLC.

# PACE ANALYTICAL SERVICES, LLC

SC DHEC No: 32010001

NELAC No: E87653

NC DENR No: 329

NC Field Parameters No: 5639

## **Case Narrative Crossroads Environmental, LLC Lot Number: VF26081**

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

All results listed in this report relate only to the samples that are contained within this report.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved NELAC standards, the Pace Analytical Services, LLC ("Pace") Quality Assurance Management Plan (QAMP), standard operating procedures (SOPs), and Pace policies. Any exceptions to the NELAC standards, the QAMP, SOPs or policies are qualified on the results page or discussed below.

If you have any questions regarding this report please contact the Pace Project Manager listed on the cover page.

# PACE ANALYTICAL SERVICES, LLC

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## Sample Summary Crossroads Environmental, LLC Lot Number: VF26081

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Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	002W	Aqueous	06/25/2020	06/26/2020

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(1 sample)



# PACE ANALYTICAL SERVICES, LLC

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## Detection Summary Crossroads Environmental, LLC Lot Number: VF26081

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
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(0 detections)

# ICP-AES Metals

Client: **Crossroads Environmental, LLC**

Laboratory ID: **VF26081-001**

Description: **002W**

Matrix: **Aqueous**

Date Sampled: **06/25/2020**

Date Received: **06/26/2020**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010D	1	07/01/2020 1406	KSH2	07/01/2020 0346	58475

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Lead	7439-92-1	6010D	ND		0.010	mg/L	1

LOQ = Limit of Quantitation      B = Detected in the method blank      E = Quantitation of compound exceeded the calibration range  
ND = Not detected at or above the LOQ      N = Recovery is out of criteria      P = The RPD between two GC columns exceeds 40%  
H = Out of holding time      W = Reported on wet weight basis

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)  
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

**Chain of Custody  
and  
Miscellaneous Documents**



# PACE ANALYTICAL SERVICES, LLC

Shealy Environmental Services, Inc.  
Document Number: ME0018C-14

Page 1 of 1  
Effective Date: 8/2/2018

## Sample Receipt Checklist (SRC)

Client: CROSSROADS ENVR      Cooler Inspected by/date: ETB / 6/26/20      Lot #: VF26081

Means of receipt: <input type="checkbox"/> SESI <input type="checkbox"/> Client <input checked="" type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> Other: _____	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	1. Were custody seals present on the cooler?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	2. If custody seals were present, were they intact and unbroken?
pH Strip ID: 20-1107      Chlorine Strip ID: NA      Tested by: MLH2	
Original temperature upon receipt / Derived (Corrected) temperature upon receipt      %Solid Snap-Cup ID: NA 20.1 / 20.1 °C NA / NA °C NA / NA °C NA / NA °C	
Method: <input type="checkbox"/> Temperature Blank <input checked="" type="checkbox"/> Against Bottles      IR Gun ID: 5      IR Gun Correction Factor: 0 °C	
Method of coolant: <input type="checkbox"/> Wet Ice <input type="checkbox"/> Ice Packs <input type="checkbox"/> Dry Ice <input checked="" type="checkbox"/> None	
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	3. If temperature of any cooler exceeded 6.0°C, was Project Manager Notified? PM was Notified by: phone (email) face-to-face (circle one).
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	4. Is the commercial courier's packing slip attached to this form?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5. Were proper custody procedures (relinquished/received) followed?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	6. Were sample IDs listed on the COC?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	7. Were sample IDs listed on all sample containers?
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	8. Was collection date & time listed on the COC?
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	9. Was collection date & time listed on all sample containers?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10. Did all container label information (ID, date, time) agree with the COC?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	11. Were tests to be performed listed on the COC?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	12. Did all samples arrive in the proper containers for each test and/or in good condition (unbroken, lids on, etc.)?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	13. Was adequate sample volume available?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	14. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	15. Were any samples containers missing/excess (circle one) samples Not listed on COC?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	16. For VOA and RSK-175 samples, were bubbles present >"pea-size" (¼" or 6mm in diameter) in any of the VOA vials?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	17. Were all DRO/metals/nutrient samples received at a pH of < 2?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	18. Were all cyanide samples received at a pH > 12 and sulfide samples received at a pH > 9?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	19. Were all applicable NH <sub>3</sub> /TKN/cyanide/phenol/625 (< 0.5mg/L) samples free of residual chlorine?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	20. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc...) correctly transcribed from the COC into the comment section in LIMS?
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	21. Was the quote number listed on the container label? If yes, Quote # NA
<b>Sample Preservation</b> (Must be completed for any sample(s) incorrectly preserved or with headspace.)	
Sample(s) NA were received incorrectly preserved and were adjusted accordingly in sample receiving with NA mL of circle one: H2SO4, HNO3, HCl, NaOH using SR # NA	
Time of preservation NA. If more than one preservative is needed, please note in the comments below.	
Sample(s) NA were received with bubbles >6 mm in diameter.	
Samples(s) NA were received with TRC > 0.5 mg/L (If #19 is no) and were adjusted accordingly in sample receiving with sodium thiosulfate (Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> ) with Shealy ID: NA	
SR barcode labels applied by: ETB      Date: 6/26/20	

Comments:

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**ATTACHMENT III  
FLOOR PLAN**



**CROSSROADS**  
ENVIRONMENTAL, LLC

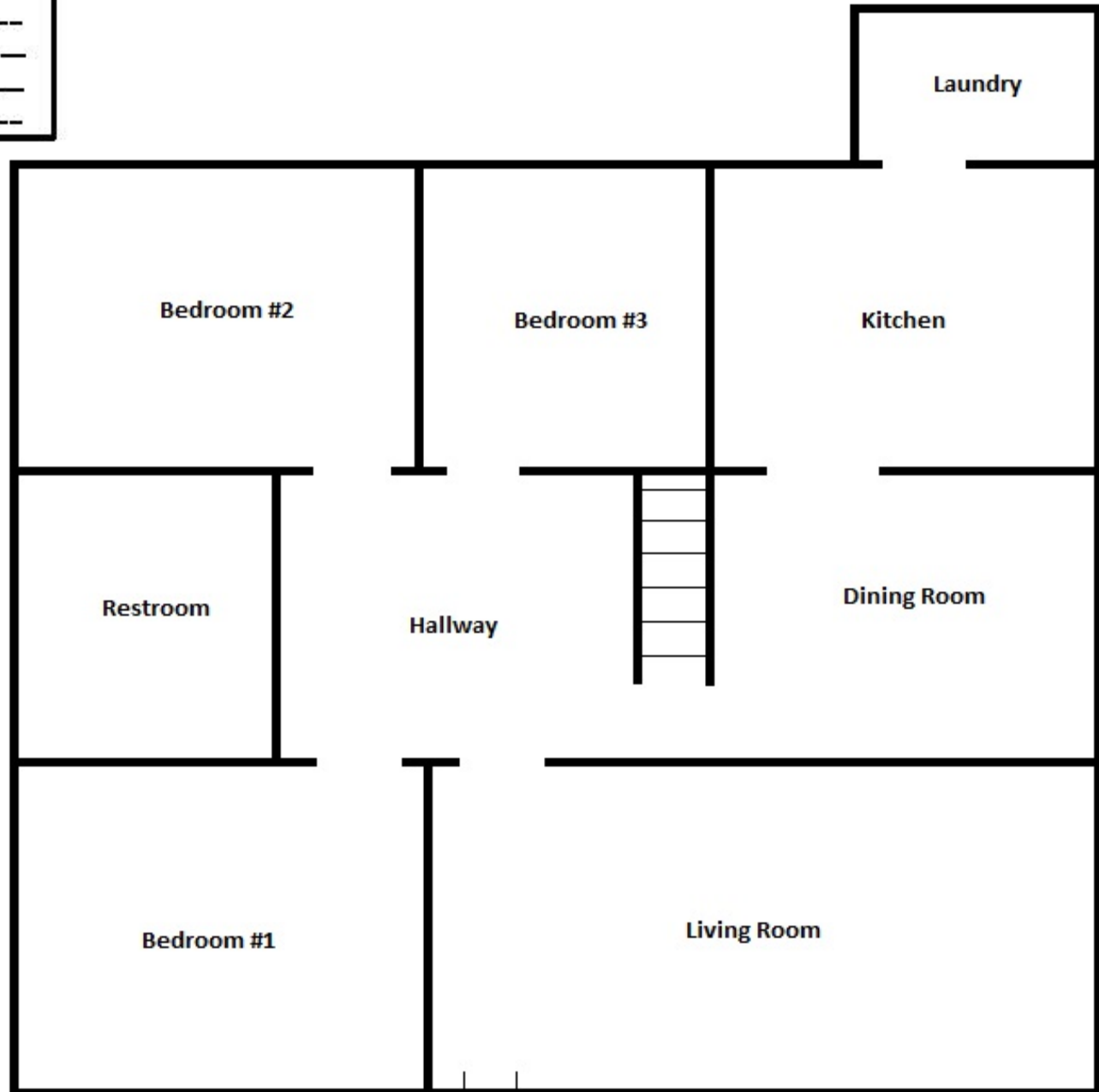
**SAMPLE LOCATION SKETCH**

Sketch #: 001

Project Name: 108 Hudson Street

Project ID: 19113-IL

Date: 6/25/2020



**ATTACHMENT IV**  
**INSPECTOR'S LEAD CERTIFICATION**



# United States Environmental Protection Agency

This is to certify that



Kay H Horton

has fulfilled the requirements of the Toxic Substances Control Act (TSCA) Section 402, and has received certification to conduct lead-based paint activities pursuant to 40 CFR Part 745.226 as:

Risk Assessor

## In the Jurisdiction of:

All EPA Administered Lead-based Paint Activities Program States, Tribes and Territories

This certification is valid from the date of issuance and expires December 27, 2022

LBP-R-117167-2

Certification #

August 21, 2019

Issued On

Adrienne Priselac, Manager, Toxics Office

Land Division

