March 7, 2024

Ms. Melinda Pure, Director
Rosemead School District
3907 Rosemead Boulevard
Rosemead, California 91770

RE: Pre-Demolition Asbestos and Lead in Paint Survey Report
Savannah Elementary School
Playground Demolition Project
3720 Rio Honda Avenue
Rosemead, California 91770

CES Project No.: 24-RSMD.02

Dear Ms. Pure:

At the request of the Rosemead School District, Inc. CES Environmental Consultants, Inc. (CES) completed a pre-demolition asbestos and lead in paint survey for the Playground Demolition Project to be completed at Savannah Elementary School located at 3720 Rio Hondo Avenue, Rosemead, California 91770.

The survey included four separate playground areas; playground areas 1, 2, playground area located between 1 and 2, and playground area 3. All areas included in our scope of work were accessible for this inspection.

The survey was conducted prior to demolition of the asphalt paving from the playground areas 1, 2, playground area located between 1 and 2, and playground area 3 and included all accessible suspect asbestos-containing materials (ACMs) and lead painted surfaces. CES conducted destructive sampling and included all layers under asphalt paving down to the substrate.

Summary of Findings:

- **Asbestos-Containing Materials (ACMs):** All collected samples were reported as none-detected by the laboratory. Refer to Section 3.3, Table I for a summary of ACMs.

- **Lead in Paint:** All collected bulk samples were reported below the laboratory "Reporting Limit". All testing for lead using XRF was reported below lead-based paint level (less than 1.0 mg/cm2).

If you have any questions concerning the report, please contact me at the number listed below.

This report was prepared by:

Cesar Ruvalcaba
Certified Asbestos Consultant (#95-1799)
CDPH Lead Inspector/Assessor, Project Monitor
CES Environmental Consultants, Inc.
6741 Friends Avenue, Suite B
Whittier, California 90280
(323) 899-2488
Cesar.Ruvalcaba@cesenviron.com

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1.0 PROJECT INFORMATION

Savannah Elementary School
Playground Demolition Project
3720 Rio Hondo Avenue
Rosemead, California 91770

2.0 INTRODUCTION AND BACKGROUND

At the request of the Rosemead School District, Inc. CES Environmental Consultants, Inc. (CES) completed a pre-demolition asbestos and lead in paint survey for the Playground Demolition Project to be completed at Savannah Elementary School located at 3720 Rio Hondo Avenue, Rosemead, California 91770.

The survey included four separate playground areas; playground areas 1, 2, playground area located between 1 and 2, and playground area 3. All areas included in our scope of work were accessible for this inspection.

The survey was conducted prior to demolition of the asphalt paving from the playground areas 1, 2, playground area located between 1 and 2, and playground area 3 and included all accessible suspect asbestos-containing materials (ACMs) and lead painted surfaces. CES conducted destructive sampling and included all layers under asphalt paving down to the substrate.

On March 4, 2024, Nicky Gutierrez-Moreno, a Cal-OSHA Certified Site Surveillance Technician (CSST #20-6787) and CDPH Lead Sampling Technician (LRC 00006140) and Mr. Fabian Ruvalcaba a Cal-OSHA Certified Asbestos Consultant (CAC #15-5533) and CDPH Lead Inspector /Assessor (LRC00004100) conducted the survey.

3.0 SUBJECT SITE, AREA DESCRIPTION, AND CONDITIONS

The Playground areas are asphalt paved areas.

No obvious signs of structural or fire damage were observed in the Playground areas.

4.0 PROJECT SURVEY

CES's objective was to conduct the survey and sampling of suspect asbestos-containing materials (ACM) and lead in paint. The survey included the following:

- Survey of the building areas to locate suspect ACM, lead paint.
- Physical assessment of suspect ACM and painted surfaces.
- Collection of bulk samples from suspect ACM and painted surfaces.
- Submitted samples collected for laboratory analysis of all ACM and lead paint.

5.0 ASBESTOS SURVEY AND SAMPLING

5.1 Asbestos Laboratory Accreditation & Analytical Method

All collected samples were analyzed by a National Voluntary Laboratory Accreditation Program (NVLAP) accredited laboratory. Samples were analyzed by AIH Laboratory located at 2556 West Woodland Drive, Anaheim, California 92801 (562) 860-2201 (NVLAP Code No.: 500079-0).

Collected bulk samples were analyzed using polarized light microscopy (PLM) for asbestos content in accordance with the United States Environmental Protection Agency's (USEPA) *Determination of Asbestos in Bulk Building Materials: EPA/600/R-93/116, July 1993*.

5.2 Asbestos Sampling Protocol

The sampling was conducted using guidelines set forth in US Environmental Protection Agency (EPA) *Federal Register 40 CFR Part 763*. Based on the requirements of the EPA, (*40 CFR 763)*, a homogeneous material is defined as "an area of surfacing material, thermal system insulation material or miscellaneous material that is uniform in color and texture." The regulation requires that a minimum number of samples be collected from each homogeneous material. If one sample in a homogeneous material is found to contain asbestos, the entire homogeneous material should be considered to be asbestos-containing.

The EPA and California Occupational Safety and Health Administration (Cal-OSHA) have defined building materials containing asbestos as follows:

- **Asbestos-Containing-Material (ACM) -** any material containing greater than 1 percent (>1%) asbestos as determined by PLM, *40 Code of Federal Regulations (CFR) Part 61, Subpart M and The South Coast Air Quality Management District (SCAQMD) Rule 1403.*

- **Asbestos-Containing-Construction-Material (ACCM) -** any material containing less than one percent (<1%) asbestos and greater than one tenth of one percent (>0.1%) asbestos by 1000-point count analysis, *California Code of Regulations (CCR), Title 8, Section 1529.*

5.3 Bulk Sample Results

Table I: Summary of Bulk Sample Results

Sample No.:	Material	Material Location	Asbestos Content	Condition	Friable	Est. Quantity
PLAYGROUND 1						
1, 2, 3	Concrete curb	Playground 1	None Detected	Intact	No	360 sq. ft.
4, 5, 6	Felt paper under wood mulch	Playground 1	None Detected	Intact	Yes	400 sq. ft.

Sample No.:	Material	Material Location	Asbestos Content	Condition	Friable	Est. Quantity
PLAYGROUND AREA BETWEEN 1 & 2						
7, 8, 9	Asphalt	Playground 1 & 2 (asphalt is shared with 1 and 2)	None Detected	Intact	No	300 sq. ft.
PLAYGROUND 2						
10, 11, 12	Concrete curb	Playground 2	None Detected	Intact	No	180 sq. ft.
PLAYGROUND 3						
13, 14, 15	Concrete curb	Playground 3	None Detected	Intact	No	880 sq. ft.
16, 17, 18	Asphalt	Playground 3	None Detected	Intact	No	220 sq. ft.

5.4 Asbestos Recommendations

All collected samples were reported as none-detected by the laboratory.

If any additional suspect ACMs not identified in this report are found during the construction project, stop work and contact the District representative. All suspect ACMs which may be impacted during construction shall be sampled for asbestos content prior to conducting any disturbance work to the materials.

6.0 LEAD SURVEY AND SAMPLING

CES conducted bulk sampling for lead painted components. XRF testing was also conducted using an portable X-Ray Fluorescence (XRF) analyzer (Thermo Niton XLp 300). For the purpose of this survey and inspection, lead in paint is define as described below:

- **Lead-based paint (LBP),** according to the California Childhood Lead Poisoning Prevention Branch regulations (Title 17, Division 1, Chapter 8), US Environmental Protection Agency (EPA), and US Department of Housing and Urban Development (HUD) is defined as paint or other surface coating with lead content equal to or greater than 1.0 mg/cm^2 of surface area using X-Ray Fluorescence (XRF) testing or 5,000 parts per million (ppm) (0.5 percent by weight) by paint chip analysis. The County of Los Angeles Department of Public Health Services, Childhood Lead Poisoning Prevention Program, has defined “dangerous levels of lead-bearing substances” as paint or other surface coating with lead content greater than 0.7 mg.cm2 (Los Angeles County). Lead related work impacting LBP is subject to the requirements of all the above-mentioned regulations, furthermore, when disturbed for construction purposes, the work is also subject to the Cal/OSHA *Title 8 CCR, Section 1532.1(d) requirements.*

- **Lead-containing paints (LCP)** according to Cal/OSHA *Title 8 CCR, Section 1532.1(d)* are defined as paints reported with any detectable levels of lead by paint chip analysis. Disturbance to LCP is subject to Cal/OSHA *Title 8 CCR, Section 1532.1(d)* regulatory requirements.

6.1 Lead Paint Chip Sampling Protocol

The paint chip samples were collected to determine the weight percent concentration in the painted surfaces for construction safety as defined by Title 8 CCR Section 1532.1. The Paint chip sample analysis was conducted as per EPA Method SW846/7420 by a laboratory accredited by the Environmental Laboratory Accreditation Program.

The survey consisted of the following:

- Visual assessment of painted surfaces,
- Collection of bulk paint chip samples down to the substrate,
- Documentation of the physical condition and location of suspect materials,
- Submitting bulk paint chip samples to a laboratory for analysis on lead content,
- Direct analysis using an XRF unit for ceramic coated suspect lead coated components; and
- Preparing a report of findings and conclusions.

6.2 Summary of Lead-Paint Chip Analysis

Table II

Sample No.	Color	Substrate	Component	Location	Level of Lead (ppm)	Condition
PLAYGROUND 1						
PC1	Red	Metal	Firetruck	Playground 1	<200	Damaged (weathered & worn)
PC2	Blue	Metal	Teeter tot	Playground 1	<200	Damaged (weathered & worn)
PC3	Red	Metal	Teeter tot	Playground 1	<200	Damaged (weathered & worn)
PC4	Light grey	Metal	Swing horse	Playground 1	<300	Damaged (weathered & worn)
PC5	Black	Metal	Swing horse	Playground 1	<200	Damaged (weathered & worn)

Sample No.	Color	Substrate	Component	Location	Level of Lead (ppm)	Condition
PLAYGROUND 2						
PC6	Red	Metal	Post	Playground 2	<200	Damaged (weathered & worn)
PC7	Green	Metal	Handrail	Playground 2	<200	Damaged (weathered & worn)
PC8	Green	Metal	Guardrail	Playground 2	<200	Damaged (weathered & worn)
PC9	Yellow	Metal	Handrail	Playground 2	<200	Damaged (weathered & worn)
PC10	Yellow	Metal	Ladder	Playground 2	<200	Damaged (weathered & worn)
PC11	Yellow	Metal	Ladder spider	Playground 2	<200	Damaged (weathered & worn)
PC12	Yellow	Metal	Swing set	Playground 2	<300	Damaged (weathered & worn)
PLAYGROUND 3						
PC13	Red	Metal	Post	Playground 3	<200	Damaged (weathered & worn)
PC14	Green	Metal	Ladder	Playground 3 (ladder & guardrail)	<200	Damaged (weathered & worn)
PC15	Green	Metal	Slide	Playground 3	<300	Damaged (weathered & worn)

- All paints were reported below the laboratory Reporting limit. Reporting limit is reported in mg/kg based on the minimum sample weight per laboratory SOP. "<" (less than) result signifies the analyte was not detected at or above the reporting limit. Due to the high reporting limit for these results, lead in paint that may be subject to Cal-OSHA worker exposure regulatory requirements may still be present.

Summary of Lead-based Paint using XRF

All testing for lead using XRF was reported below lead-based paint level (less than 1.0 mg/cm2). Refer to XRF Data Sheet I Appendix B for a complete list of all painted components using XRF.

6.3 Lead Recommendations

All collected bulk samples were reported below the laboratory "Reporting Limit". All testing for lead using XRF was reported below lead-based paint level (less than 1.0 mg/cm2).

7.0 LIMITATIONS

The survey included four separate playground areas; playground areas 1, 2, playground area located between 1 and 2, and playground area 3. All areas included in our scope of work were accessible for this inspection.

The survey was conducted prior to demolition of the asphalt paving from the playground areas 1, 2, playground area located between 1 and 2, and playground area 3 and included all accessible suspect asbestos-containing materials (ACMs) and lead painted surfaces. CES conducted destructive sampling and included all layers under asphalt paving down to the substrate.

The survey was conducted prior to demolition of the Portable buildings and included all accessible suspect asbestos-containing materials (ACMs) and lead painted surfaces. CES conducted destructive sampling and included all layers down to the floor, walls, and ceiling joist and under asphalt paving down to the substrates. The exterior paint on Portables 42 and 43 has already been sampled and reported as a separate report (to be provided by the District). The previously completed exterior lead paint report should be used in conjunction with this report to complete the demolition project.

The survey is intended to be used for construction purposes only. The laboratory results included in Appendix A and B in this report supersede the results listed in Tables I and II if a conflict in the results is identified. CES recommends that the user of this report reviews, and understands the results, findings, and recommendations prior to conducting any work which may disturb any ACMs and lead paint impacted surfaces.

CES conducted the survey with the standard of care ordinarily exercised by qualified and reputable members of the environmental/industrial hygiene profession based on conditions and practices observed at the property and information provided to CES related to the project and/or purpose of the survey at the time of the investigation.

This report does not intend to identify all hazards or unsafe practices, nor to indicate that other hazards or unsafe conditions have been identified. As such, CES does not guarantee or warrant that the facility or workplace is safe; nor does CES's involvement in this property relieve the Client, building owner/operator or tenant of any continuing responsibility of providing a safe facility or living space.

We will not accept any liability for loss, injury claim, or damage arising directly or indirectly from any use or reliance on this report, expressed or implied.

This report was based on those conditions observed on the day the field evaluation was accomplished. In the event that changes in the nature of the property have occurred, or additional relevant information about the property is subsequently discovered, the findings contained in this report may not be valid unless these changes and additional relevant information are reviewed, and the conclusion of this report is modified and verified in writing.

Material quantities included in this report are of observed material and provided as a visual best estimate for information only and should not be used as a reliable quantity by any contractor for preparing removal bids. The Contractor is solely responsible for assessing the type, extent, and quantity of material to be removed in each area of the project in preparing each project bid.

The property owner is responsible for ensuring that the information, conclusions, and recommendations disclosed in this report are brought to the attention of all appropriate staff, contractors, regulatory agencies etc. as required.

If you have any questions or concerns, feel free to contact the undersigned at the number listed below.

This report was prepared by:

Cesar Ruvalcaba
Senior Project Manager
CES Environmental Consultants, Inc.

APPENDIX A:

ANALYTICAL DATA AND CHAIN OF CUSTODIES-ASBESTOS

AIH LABORATORY
FOCUSED ON QUALITY
2556 W Woodland Dr Anaheim, CA 92801

BULK ASBESTOS FIBER ANALYSIS

BY POLARIZED LIGHT MICROSCOPY

NVLAP TESTING
NVLAP LAB CODE 500079-0
Phone:(562) 860-2201
www.aihlab.com

Client Name: CES Environmental Consultants, Inc
Project Manager: Cesar Ruvalcaba
Client Address: 6741 Friends Avenue, Suite B, Whittier, CA 90601
Project Number: No Information Provided
Project Location: Rosemead, CA

Lab Batch Number: 2404139
Samples Submitted: 18
Samples Analyzed: 18
Analysis Method: EPA 600/R-93-116 & EPA 600/M4-82-020

Lab ID: 240413901 **Client ID:** 1

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	Grey hard cementitious material	**None Detected**	None Detected	Binder/Filler, Mineral Grains

Lab ID: 240413902 **Client ID:** 2

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	Grey hard cementitious material	**None Detected**	None Detected	Binder/Filler, Mineral Grains

Lab ID: 240413903 **Client ID:** 3

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	Grey hard cementitious material	**None Detected**	None Detected	Binder/Filler, Mineral Grains

Lab ID: 240413904 **Client ID:** 4

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	Black fibrous asphaltic felt	**None Detected**	Synthetic Fibers 60%	Asphalt/Binder

Lab ID: 240413905 **Client ID:** 5

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	Black fibrous asphaltic felt	**None Detected**	Synthetic Fibers 60%	Asphalt/Binder

Lab ID: 240413906 **Client ID:** 6

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	Black fibrous asphaltic felt	**None Detected**	Synthetic Fibers 60%	Asphalt/Binder

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BULK ASBESTOS FIBER ANALYSIS

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Client Name: CES Environmental Consultants, Inc
Project Manager: Cesar Ruvalcaba
Client Address: 6741 Friends Avenue, Suite B, Whittier, CA 90601
Project Number: No Information Provided
Project Location: Rosemead, CA

Lab Batch Number: 2404139
Samples Submitted: 18
Samples Analyzed: 18
Analysis Method: EPA 600/R-93-116 & EPA 600/M4-82-020

Lab ID: 240413907 **Client ID:** 7

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	Black asphaltic material with granules	**None Detected**	None Detected	Asphalt/Binder, Mineral Grains

Lab ID: 240413908 **Client ID:** 8

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	Black asphaltic material with granules	**None Detected**	None Detected	Asphalt/Binder, Mineral Grains

Lab ID: 240413909 **Client ID:** 9

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	Black asphaltic material with granules	**None Detected**	None Detected	Asphalt/Binder, Mineral Grains

Lab ID: 240413910 **Client ID:** 10

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	Grey hard cementitious material	**None Detected**	None Detected	Binder/Filler, Mineral Grains

Lab ID: 240413911 **Client ID:** 11

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	Grey hard cementitious material	**None Detected**	None Detected	Binder/Filler, Mineral Grains

Lab ID: 240413912 **Client ID:** 12

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	Grey hard cementitious material	**None Detected**	None Detected	Binder/Filler, Mineral Grains

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BULK ASBESTOS FIBER ANALYSIS

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NVLAP LAB CODE 500079-0
Phone:(562) 860-2201
www.aihlab.com

Client Name: CES Environmental Consultants, Inc
Project Manager: Cesar Ruvalcaba
Client Address: 6741 Friends Avenue, Suite B, Whittier, CA 90601
Project Number: No Information Provided
Project Location: Rosemead, CA

Lab Batch Number: 2404139
Samples Submitted: 18
Samples Analyzed: 18
Analysis Method: EPA 600/R-93-116 & EPA 600/M4-82-020

Lab ID: 240413913 **Client ID:** 13

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	Grey hard cementitious material	**None Detected**	None Detected	Binder/Filler, Mineral Grains

Lab ID: 240413914 **Client ID:** 14

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	Grey hard cementitious material	**None Detected**	None Detected	Binder/Filler, Mineral Grains

Lab ID: 240413915 **Client ID:** 15

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	Grey hard cementitious material	**None Detected**	None Detected	Binder/Filler, Mineral Grains

Lab ID: 240413916 **Client ID:** 16

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	Black asphaltic material with granules and paint	**None Detected**	None Detected	Asphalt/Binder, Paint

Lab ID: 240413917 **Client ID:** 17

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	Black asphaltic material with granules	**None Detected**	None Detected	Asphalt/Binder, Mineral Grains

Lab ID: 240413918 **Client ID:** 18

Layer	Layer Description	Asbestos Type %	Other Fibrous Material %	Other Non Fibrous Material
1.	Black asphaltic material with granules	**None Detected**	None Detected	Asphalt/Binder, Mineral Grains

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BULK ASBESTOS FIBER ANALYSIS

BY POLARIZED LIGHT MICROSCOPY

NVLAP TESTING
NVLAP LAB CODE 500079-0
Phone:(562) 860-2201
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Client Name: CES Environmental Consultants, Inc
Project Manager: Cesar Ruvalcaba
Client Address: 6741 Friends Avenue, Suite B, Whittier, CA 90601
Project Number: No Information Provided
Project Location: Rosemead, CA

Lab Batch Number: 2404139
Samples Submitted: 18
Samples Analyzed: 18
Analysis Method: EPA 600/R-93-116 & EPA 600/M4-82-020

Analyzed by: Lynsey Ninh **Signature:** **Date:** 03-05-2024

Reviewed by: Vivian Le **Signature:** **Date:** 03-05-2024

Reporting limit is 1%. If the sample was not collected by AIH Laboratory then the accuracy of the results is limited by the methodology and experience of the sample collector. Clients can verify specific reporting limit requirement from local regulatory agencies. Liability limited to cost of samples analysis. This report shall not be reproduced except in full, without written approval of AIH Laboratory. It shall not be used to claim product endorsement by NVLAP or any other agency of the government. Reported results relate only to the samples tested and may not be the representative of the sample area. AIH Laboratory shall dispose of the Customer's samples 14 days after receiving the samples unless instructed to store them for an alternate period of time in writing.

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ENVIRONMENTAL CONSULTANTS

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2404139

ASBESTOS BULK SAMPLE INVENTORY AND CHAIN OF CUSTODY

Client:	Rosemead School District	**Project Name:**	Savannah ES. Playground I	**Technician:**	Nicky Lutewer-Munro
Location:	Rosemead, CA	**Project Number:**		**Date:**	03/04/2024

Sample No.:	Material Sampled:	Sample Location:	Material Location:	Est. Qty:	Friable:	Condition:
1	concrete curb	Playground 1 NW	Playground 1	360SF	No	Intact.
2	↓	NE	↓	↓	↓	↓
3	↓	SW	↓	↓	↓	↓
4	felt paper under wood	W Clv	↓	400SF	Yes	Intact
5	mulch	Clv	↓	↓	↓	↓
6	↓	E Clv	↓	↓	↓	↓
7	asphalt	Playground 1/2 NW	Playground 1/2	300SF	No	Intact
8	↓	Clv	(asphalt is shared)	↓	↓	↓
9	↓	SE	↓	↓	↓	↓

Analysis Requested:	PCM	**Turnaround Time:**	48hrs
Relinquished By:	Nicky Lutewer-Munro	**Date & Time:**	03/04/2024 1540
Received By:	[signature]	**Date & Time:**	3/4/24 15:45

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2404139

ASBESTOS BULK SAMPLE INVENTORY AND CHAIN OF CUSTODY

Client:	Rosemead School District	**Project Name:**	Savannah ES - Playground 2	**Technician:**	Nicky Gutierrez-Munoz
Location:	Rosemead, CA	**Project Number:**		**Date:**	03/04/2024

Sample No.:	Material Sampled:	Sample Location:	Material Location:	Est. Qty:	Friable:	Condition:
1a	concrete curb	Playground 2 SW	Playground 2	1580 SF	No	Intact
1b	↓	SE	↓	↓	↓	↓
1c	↓	NW	↓	↓	↓	↓

Analysis Requested:	PLM	**Turnaround Time:**	48hrs
Relinquished By:	Nicky Gutierrez-Munoz	**Date & Time:**	03/04/2024 1510
Received By:	Chelsea B	**Date & Time:**	3/4/24 15:05

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2404139

ASBESTOS BULK SAMPLE INVENTORY AND CHAIN OF CUSTODY

Client:	Rosemead School District	**Project Name:**	Savannah E.S. - Playground 3	**Technician:**	Nicky Gutierrez-Moreno
Location:	Rosemead, CA	**Project Number:**		**Date:**	03/04/2024

Sample No.:	Material Sampled:	Sample Location:	Material Location:	Est. Qty:	Friable:	Condition:
13	concrete curb	Playground 3 NE	Playground 3	580SF	~~SBS SF~~ NO	Intact
14	↓	wclr		↓	↓	↓
15		sclr				
16	asphalt	sw		720SF	~~NO~~ NO SF	Intact
17	↓	wclr		↓	↓	↓
18		nclr				

Analysis Requested:	PLM	**Turnaround Time:**	48 hrs
Relinquished By:	Nicky Gutierrez-Moreno	**Date & Time:**	03/04/2024 1510
Received By:	[signature]	**Date & Time:**	3/4/24 15:45

APPENDIX B:

ANALYTICAL DATA, CHAIN OF CUSTODIES, XRF FIELD SHEET, XRF CALIBRATION, AND CDPH FORM 8552

2556 W Woodland Dr Anaheim, CA 92801 | Tel:(562) 860-2201 | www.aihlab.com

Analysis Report

Total Lead (Pb)

Client: CES Environmental Consultants, Inc
Address: 6741 Friends Avenue, Suite B, Whittier, CA 90601

Project Manager: Cesar Ruvalcaba
Project #: No Information Provided
Project Location: Rosemead Ca

Report Status: Final Report
Lab Batch #: 2404137
Matrix: Paint
Method: EPA 7000B
Samples Submitted: 15
Samples Analyzed: 15
Bench Run No: 59334

Lab ID	Client Sample ID	Sample Weight (g)	RL in percent	Results in mg/kg	Results in percent
240413701	PC-1	0.1058	0.02	<200	<0.02
240413702	PC-2	0.1056	0.02	<200	<0.02
240413703	PC-3	0.1000	0.02	<200	<0.02
240413704	PC-4	0.0800	0.03	<300	<0.03
240413705	PC-5	0.0850	0.02	<200	<0.02
240413706	PC-6	0.1020	0.02	<200	<0.02
240413707	PC-7	0.1018	0.02	<200	<0.02
240413708	PC-8	0.0992	0.02	<200	<0.02
240413709	PC-9	0.1025	0.02	<200	<0.02
240413710	PC-10	0.1044	0.02	<200	<0.02
240413711	PC-11	0.1012	0.02	<200	<0.02
240413712	PC-12	0.0750	0.03	<300	<0.03
240413713	PC-13	0.1014	0.02	<200	<0.02
240413714	PC-14	0.0870	0.02	<200	<0.02
240413715	PC-15	0.0726	0.03	<300	<0.03

Lab Notes at Page 2

2556 W Woodland Dr Anaheim, CA 92801 | Tel:(562) 860-2201 | www.aihlab.com

Analysis Report

Total Lead (Pb)

Client: CES Environmental Consultants, Inc
Address: 6741 Friends Avenue, Suite B, Whittier, CA 90601

Project Manager: Cesar Ruvalcaba
Project #: No Information Provided
Project Location: Rosemead Ca

Report Status: Final Report
Lab Batch #: 2404137
Matrix: Paint
Method: EPA 7000B
Samples Submitted: 15
Samples Analyzed: 15
Bench Run No: 59334

Sampled By: Client

Analyzed by: Trinh Pham **Signature:** **Date:** 03-06-2024

Reviewed by: Zubair Ahmed **Signature:** **Date:** 03-06-2024

Notes:
Units: mg/kg = milligrams per kilogram; percent = milligrams per kilogram/10000
RL = Reporting limit; "<" = below the reporting limit; mg/kg = ppm
Samples were prepared in accordance with EPA 3050B and analyzed with **EPA 7420** unless stated otherwise. Condition of all samples and method QC results are acceptable unless stated otherwise. Reported results relate only to the samples tested and may not be the representative of the sample area.
CA ELAP, Certification# 3070

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6741 Friends Avenue,
Suite B
Whittier, California 90601
562-693-3055
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2404137

LEAD PAINT BULK SAMPLE INVENTORY AND CHAIN OF CUSTODY

Client:	Rosemead School District	**Project Name:**	Seasonal L.S - Playgrounds	**Technician:**	Fabian Ruvalcaba
Location:	Rosemead Ca	**Project Number:**		**Date:**	3-2-2024

Sample No.:	Color:	Substrate:	Component:	Sample Location:	Material Location:	Condition:	Est. Qty:
PC-1	Red	Metal	Fire truck	Playground #1 - N/E	Playground #1	Damaged	-
-2	Blue		Teeter Tot	- C/W			-
-3	Red		⊥	- C/W			-
-4	Lt. Grey		Swing Hanger	- S/W			-
-5	Black		⊥	- S/W			-
-6	Red		Post	Playground #2 - N/W	Playground #2		-
-7	Green		Handrail	- N/W			-
-8	⊥		Guard Rail	- C/W			-
-9	Yellow		Handrail	- C/W			-
-10			Ladder	- E/W			-
-11			⊥ spade	- E/W			-
-12	⊥	⊥	Swing Set	- S/W			-
-13	Red	Metal	Post	Playground #3 - C/W	Playground #3		-
-14	Green	Metal	Ladder	- N/W	Ladder/Guard Rail		-
-15	⊥	⊥	Slide	⊥ - N/W	⊥		-

weather damaged

Analysis Requested:	Flame AA	**Turnaround Time:**	48 hr
Relinquished By:	Fabian Ruvalcaba	**Date & Time:**	3-2-2024 1540
Received By:	Charles Ato	**Date & Time:**	3/4/24 15:45pm

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XRF DATA SHEET

Client:	Rosemead School Dist.	**Project Name:**	Savannah E.S. Playgrounds	**Technician:**	Fabian Ruelas
Location:	Rosemead	**Project Number:**		**Date:**	3-4-2024

Sample No.	Sample Location - Room Description	Color	Substrate (1)	Component	Side A,B,C,D	Paint Condition	Sample Results (mg/cm2)
1	Calibration	—	—	—	—	—	1.0
2	"	—	"	"	"	"	1.0
3	"	—	"	"	"	"	1.0
4	Playground #1	Red	Metal	Fire truck	B	D	0.01
5	"	Blue	"	Teeter Tot	C	I	0.00
6	"	Red	"	"	C	I	0.00
7	"	Lt. Gray	Metal	Swing hardware	D	I	0.01
8	"	Black	"	"	D	I	0.01
9	Playground #2	Red	Metal	Post	A	I	0.05
10	"	Green	Metal	Handrail	A	D	0.01
11	"	"	"	Guard rail	A	D	0.00
12	"	Yellow	Metal	Handrail	A	I	0.00
13	"	Yellow	Metal	Ladder	B	D	0.01
14	"	"	"	+ spider	B	I	0.00
15	"	"	"	Swing Set	C	I	0.01
16	Playground #3	Red	Metal	Post	A	I	0.01
17	"	"	"	"	B	D	0.00
18	"	"	"	"	C	D	0.00
19	"	Green	Metal	Ladder	A	I	0.00
20	"	"	"	Guard rail	B	"	0.00
21	"	"	"	Slider	B	"	0.00
22	Calibration	—	—	—	—	—	1.0
23	"	—	—	—	—	—	1.1
24	"	—	—	—	—	—	1.0

(1) DW-Drywall, PL-Plaster, ME-Metal, WD-Wood, ST-Stucco, CE-Ceramic, PS-Plastic, CO-Concrete

Fabian Ruelas — Print Name

Signature

CDPH No.

3-4-2024 — Date

State of California—Health and Human Services Agency

California Department of Public Health

LEAD HAZARD EVALUATION REPORT

Section 1 — Date of Lead Hazard Evaluation 3/4/24

Section 2 — Type of Lead Hazard Evaluation (Check one box only)

☑ Lead Inspection ☐ Risk assessment ☐ Clearance Inspection ☑ Other (specify) for construction purposes

Section 3 — Structure Where Lead Hazard Evaluation Was Conducted

Address [number, street, apartment (if applicable)]	City	County	Zip Code
3720 Rio Honda Avenue (Playground Demo. Job)	Rosemead	Los Angeles	91770

Construction date (year) of structure	Type of structure		Children living in structure?	
	☐ Multi-unit building	☐ School or daycare	☐ Yes	☑ No
	☒ Single family dwelling	☐ Other	☐ Don't Know	

Section 4 — Owner of Structure (if business/agency, list contact person)

Name	Telephone number
Rosemead School District	

Address [number, street, apartment (if applicable)]	City	State	Zip Code
3907 Rosemead Blvd.	Rosemead	CA	91770

Section 5 — Results of Lead Hazard Evaluation (check all that apply)

☒ No lead-based paint detected ☐ Intact lead-based paint detected ☐ Deteriorated lead-based paint detected

☐ No lead hazards detected ☐ Lead-contaminated dust found ☐ Lead-contaminated soil found ☐ Other

Section 6 — Individual Conducting Lead Hazard Evaluation

Name	Telephone number
Fabian Ruvalcaba	951-448-1111

Address [number, street, apartment (if applicable)]	City	State	Zip Code
6741 Friends Avenue, Suite B	Whittier	California	90601

CDPH certification number	Signature	Date
LRC 00004100		3/4/24

Name and CDPH certification number of any other individuals conducting sampling or testing (if applicable)

Section 7 — Attachments

A. A foundation diagram or sketch of the structure indicating the specifc locations of each lead hazard or presence of lead-based paint;
B. Each testing method, device, and sampling procedure used;
C. All data collected, including quality control data, laboratory results, including laboratory name, address, and phone number.

First copy and attachments retained by inspector

Second copy and attachments retained by owner

Third copy only (no attachments) mailed or faxed to:

California Department of Public Health
Childhood Lead Poisoning Prevention Branch Reports
850 Marina Bay Parkway, Building P, Third Floor
Richmond, CA 94804-6403
Fax: (510) 620-5656

Performance Characteristic Sheet

EFFECTIVE DATE: **September 24, 2004** **EDITION NO.: 1**

MANUFACTURER AND MODEL:

Make: *Niton LLC*
Tested Model: *XLp 300*
Source: ^{109}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^2 (inclusive)

The calibration of the XRF instrument should be checked using the paint film nearest 1.0 mg/cm^2 in the NIST Standard Reference Material (SRM) used (e.g., for NIST SRM 2579, use the 1.02 mg/cm^2 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^2)
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

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* ("HUD Guidelines"). Performance parameters shown on this sheet are calculated from the EPA/HUD evaluation using archived building components. Testing was conducted in August 2004 on 133 testing combinations. The instruments that were used to perform the testing had new sources; one instrument's was installed in November 2003 with 40 mCi initial strength, and the other's was installed June 2004 with 40 mCi initial strength.

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.

SUBSTRATE CORRECTION VALUE COMPUTATION:

Substrate correction is not needed for brick, concrete, drywall, metal, plaster or wood when using Lead-in-Paint K+L variable reading time mode, the normal operating mode for these instruments. If substrate correction is desired, refer to Chapter 7 of the HUD Guidelines for guidance on correcting XRF results for substrate bias.

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. Use the K+L variable time mode readings.

Conduct XRF retesting 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. Do not correct the original or retest results for substrate bias. In single-family and multifamily 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 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 results.

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

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:

For the Lead-in-Paint K+L variable reading time mode, the instrument continues to read until it is moved away from the testing surface, terminated by the user, or the instrument software indicates the reading is complete. The following table provides testing time information for this testing mode. The times have been adjusted for source decay, normalized to the initial source strengths as noted above. Source strength and type of substrate will affect actual testing times. At the time of testing, the instruments had source strengths of 26.6 and 36.6 mCi.

Testing Times Using K+L Reading Mode (Seconds)

	All Data			Median for laboratory-measured lead levels (mg/cm^2)		
Substrate	25^{th} Percentile	Median	75^{th} Percentile	Pb < 0.25	0.25 ≤ Pb<1.0	1.0 ≤ Pb
Wood Drywall	4	11	19	11	15	11
Metal	4	12	18	9	12	14
Brick Concrete Plaster	8	16	22	15	18	16

CLASSIFICATION RESULTS:

XRF results are classified as positive if they are greater than or equal to the threshold, and negative if they are less than the threshold.

DOCUMENTATION:

A document titled *Methodology for XRF Performance Characteristic Sheets* provides an explanation of the statistical methodology used to construct the data in the sheets, and provides empirical results from using the recommended inconclusive ranges or thresholds for specific XRF instruments. For a copy of this document call the National Lead Information Center Clearinghouse at 1-800-424-LEAD.

This XRF Performance Characteristic Sheet was developed by the Midwest Research Institute (MRI) and QuanTech, Inc., under a contract between MRI and the XRF manufacturer. HUD has determined that the information provided here is acceptable when used as guidance in conjunction with Chapter 7, Lead-Based Paint Inspection, of HUD's *Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing*.

Performance Characteristic Sheet

EFFECTIVE DATE: April 17, 1998 **EDITION NO.: 4**

MANUFACTURER AND MODEL:
Make: *Niton Corporation*
Models: *XL-309, 701-A, 702-A, and 703-A Spectrum Analyzers*
Source: ^{109}Cd (10 - 40 mCi initial source strength)
Note: This Performance Characteristic Sheet (PCS) is applicable to the listed Niton XRF instruments which have an operating software version of 5.1 (or equivalent) using a variable-time mode, and to Niton instruments having an operating software version of 1.2C (or equivalent) using a fixed-time mode. This sheet supersedes all previous sheets for the XRF instruments made by the Niton Corporation and the 1993 testing of XL prototypes reported in the document titled: *A Field Test of Lead-Based Paint Testing Technologies*: *Technical Report* (EPA Report No. 747-R-95-002b, May 1995).

FIELD OPERATION GUIDANCE

This PCS provides supplemental information to be used in conjunction with Chapter 7 (Lead-Based Paint Inspection) of the HUD *Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing* ("HUD Guidelines"). Performance parameters shown in this sheet are applicable only when operating the instrument using the manufacturer's instructions and the procedures described in Chapter 7 of the HUD Guidelines.

OPERATING PARAMETERS

Use of variable-time paint test mode ("K & L + Spectra" mode) on instruments running software version 5.1 (or equivalent) using the "Combined Lead Reading" with the instrument's display of a 95%--confident (2-sigma) *Positive* or *Negative* determination versus the action-level as the stopping point of the measurement.

Use of nominal 20-second readings for L-shell results or 120-second readings for K-shell results on instruments running software version 1.2C (or equivalent) in a fixed-time mode.

XRF CALIBRATION CHECK LIMITS

0.9 to 1.2 mg/cm^2 (inclusive) for instruments running software version 5.1 (or equivalent)
0.9 to 1.1 mg/cm^2 (inclusive) for instruments running software version 1.2C (or equivalent)

SUBSTRATE CORRECTION :
(applicable to instruments running software versions 5.1 (or equivalent) or 1.2C (or equivalent))

For XRF results below 4.0 mg/cm^2, substrate correction recommended for:

None.

Substrate correction is not recommended for:

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

THRESHOLDS:
(applicable to instruments running software versions 5.1 (or equivalent) or 1.2C (or equivalent))

DESCRIPTION	SUBSTRATE	THRESHOLD* (mg/cm^2)
Results not corrected for substrate bias	Brick Concrete Drywall Metal Plaster Wood	1.0 1.0 1.0 1.0 1.0 1.0
*For instruments running software version 1.2C (or equivalent), application of the decision making methodology recommended in this PCS can result in inconclusive results regardless of whether decisions are based on L-shell readings, K-shell readings, or both.		

BACKGROUND INFORMATION

EVALUATION DATA SOURCE AND DATE

Performance parameters shown on this sheet are calculated from the EPA/HUD evaluation using archived building components. Three rounds of tests were conducted on approximately 150 test locations in each round.

One round of testing was conducted March 1995 using a single instrument with an October 1994 source at 10 mCi initial strength while running software version 1.2C in a fixed-time mode with nominal 20-second readings for L-shell results or 120-second readings for K-shell results.

The two other rounds of testing were conducted December 1997 using three different instruments, each running software version 5.1. Two of these instruments had new sources installed November 1997, the other instrument had a new source installed December 1997, all with 10 mCi initial strength. The December 1997 testing was performed in the variable-time paint test mode "K & L + Spectra" using the "Combined Lead Reading" with 2-sigma confidence interval as the stopping point of the measurement.

XRF CALIBRATION CHECK:

The calibration of the XRF instrument should be checked using the paint film nearest 1.0 mg/cm^2 in the NIST Standard Reference Material (SRM) (e.g., for NIST SRM 2579, use the 1.02 mg/cm^2 film). Measurements should be bracketed by successful XRF calibration check readings. XRF calibration checks are performed at the beginning and end of the day's inspections or at extended delays in testing, and (at least) every four hours during inspections or at a frequency recommended by the manufacturer, whichever is more stringent. If readings are outside the acceptable calibration check range, follow the manufacturer's instructions to bring the instrument into control before XRF testing proceeds. Measurements which are not bracketed by successful calibration checks should be considered suspect.

EVALUATING THE QUALITY OF XRF TESTING

Randomly select ten testing combinations for re-testing from each house or from two randomly selected units in multifamily housing. (A testing combination is a location on a painted surface as defined in Chapter 7 of the HUD Guidelines.) For testing combinations involving up to four walls in a room, each wall is classified on its individual XRF reading. (See Chapter 7 for testing procedures if there are more than four walls in a room, and for testing exterior walls.)

For instruments running software version 5.1 (or equivalent), conduct the test in the variable-time paint test mode "K & L + Spectra" using the "Combined Lead Reading" with 2-sigma confidence interval as the

stopping point of the measurement. For instruments running software version 1.2C (or equivalent) in the fixed-time mode, use either 20-second readings for the L-shell results or 120-second readings for the K-shell results, as described in the "Classifications of Results" section below.

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

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. Do not correct the original or retest results for substrate bias. In single-family and multifamily 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 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 results.

Compute the average of all ten retest XRF results.

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.

BIAS AND PRECISION

Bias and precision data were not computed for instruments using software version 5.1 and taking variable mode readings. (See Appendix B, Section B.3.2 of the document titled *Methodology for XRF Performance Characteristic Sheets*, EPA-747-R-45-008, September 1997). During the 1997 testing, there were 12 testing locations with laboratory-measured lead levels equal to or greater than 4.0 mg/cm^2 lead which were tested using two instruments in the variable-time paint test mode. None of these testing locations had XRF readings less than 1.0 mg/cm^2. These data are for illustrative purposes only. Substrate correction is not recommended for this XRF instrument.

The bias and precision data given below are for instruments running software version 1.2C (or equivalent) and were computed without substrate correction using the 20-second L-shell readings from samples with

reported laboratory results less than 4.0 mg/cm^2 lead. Readings reported by the instrument in the "*x*" or ">>*x*" format were not used in the computation. During the 1995 testing there were 15 test locations with a laboratory reported result equal to or greater than 4.0 mg/cm^2 lead. Of these, 12 readings were reported in the ">*x*" or ">>*x*" format, but of the 3 remaining, 1 had an XRF reading less than 1.0 mg/cm^2.

Bias & Precision Results for Niton Model XL-309 Instruments Using Software Version 1.2C (or equivalent)

MEASURED AT	SUBSTRATE	BIAS (mg/cm^2)	PRECISION* (mg/cm^2)
0.0 mg/cm^2	All	0.0	<0.1
0.5 mg/cm^2	All	0.0	0.2
1.0 mg/cm^2	All	0.0	0.3
2.0 mg/cm^2	All	-0.1	0.5

*Precision at 1 standard deviation

CLASSIFICATION OF RESULTS

This section describes how to apply information displayed by this instrument to determine the presence or absence of lead in paint using the procedures recommended in Chapter 7 of the HUD Guidelines. These guidelines recommend classifying XRF results as positive, negative, or inconclusive compared to the lead-based paint 1.0 mg/cm^2 standard.

For Niton Model XL-309, 701-A, 702-A, and 703-A instruments running software version 5.1 (or equivalent), XRF results are classified using a threshold. There is no inconclusive classification when using the threshold for instruments running software version 5.1. In single-family and multifamily housing, an XRF result is a single reading taken on each testing combination. (A testing combination is a location on a painted surface as defined in Chapter 7 of the HUD Guidelines.) For testing combinations involving up to four walls in a room, each wall is classified on its individual XRF reading. (See Chapter 7 for testing procedures if there are more than four walls in a room, and for testing exterior walls.) For computing the XRF result, use all digits that are displayed by the instrument as the "Combined Lead Reading." Results are classified as positive (i.e., $\geq$ 1.0 mg/cm^2), if greater than or equal to the threshold, or negative (< 1.0 mg/cm^2) if less than the threshold. Threshold values, provided in the tables above, were determined by comparing XRF test results to the 1.0 mg/cm^2 standard.

For Niton Model XL-309 instruments running software version 1.2C (or equivalent), additional procedures are needed to classify readings because this software displays readings and ancillary information useful for classification purposes. An algorithmic procedure is described that makes use of the XRF reading and other displayed information.

The algorithm for classifying results is first applied to 20-second nominal L-shell readings followed by 120-second nominal K-shell readings to resolve inconclusive results, or to recommend laboratory analysis of paint-chip samples, if necessary. A listing of laboratories recognized by the EPA National Lead Laboratory Accreditation Program (NLLAP) for the confirmational analysis of inconclusive results is available from the National Lead Clearinghouse at 1-800-424-LEAD.

XRF results are classified using threshold values for the Model XL-309 software version 1.2C (or equivalent). Results are classified as positive if greater than or equal to the threshold, and as negative if less than the threshold. There is no inconclusive classification when using threshold values. However, in some cases, inconclusive results still may be obtained regardless of whether decisions are based on L-shell readings, K-shell readings, or both, as described below. Use all digits that are reported by the instrument. Threshold values, which were determined for comparing results to the 1.0 mg/cm^2 standard, are provided in the table above.

This instrument displays its lead-based paint measurements as both L-shell and K-shell readings based on

the corresponding L-shell and K-shell X-ray fluorescence (refer to Chapter 7 of the HUD Guidelines for more details). The L-shell readings (or L-readings) are displayed as a numerical result alone, or as a numerical result preceded by either one greater-than symbol (">") or preceded by two greater-than symbols (">>"). The two greater-than symbols will only be displayed when the detected lead level is greater than 5.0 mg/cm^2. Since the maximum lead level reported by this instrument is 5.0 mg/cm^2, lead levels greater than 5.0 mg/cm^2 are displayed as ">>5.0". Other examples of how L-readings can be displayed (in mg/cm^2 units) are "0.6" and ">0.9". The numerical display alone implies that the instrument measured the lead in the paint at the displayed level using L-shell X-ray fluorescence; 0.6 mg/cm^2 in the example. A number preceded by a single greater-than symbol indicates that the measurable lead is deeply buried in the paint and the detected lead level is greater than the displayed value. In the example, >0.9 indicates that the instrument detected lead deeply buried in paint at a level greater than 0.9 mg/cm^2. K-shell readings (or K-readings) are displayed in one of two ways: 1) as a single K-reading plus and minus a "precision" value or 2) as an upper K-reading and lower K-reading.

The same method is used for testing in single-family and multifamily housing. The HUD Guidelines recommend taking a single XRF reading on a testing combination. (A testing combination is a location on a painted surface as defined in Chapter 7 of the HUD Guidelines.) For testing combinations involving up to four walls in a room, each wall is classified on its individual XRF reading. (See Chapter 7 for testing procedures if there are more than four walls in a room, and for testing exterior walls.)

A. Take a single 20-second nominal reading on each testing combination.

B. Classify the L-reading based on the type of information displayed.

   <u>If two greater-than symbols are displayed then</u>:

   - Classify the >>5.0 L-reading as POSITIVE

   <u>If one greater-than symbol is displayed then</u>:

   - Classify the L-reading as POSITIVE if the numerical result that follows the greater than symbol is equal to or greater than 1.0.

   - Classify the L-reading as INCONCLUSIVE if the numerical result that follows the greater than symbol is less than 1.0.

   <u>If the numerical L-reading is displayed alone (that is, without any preceding greater-than symbols) then</u>:

   - Classify the L-reading as POSITIVE if the numerical result is equal to or greater than 1.0.

   - Classify the L-reading as NEGATIVE if the numerical result is less than 1.0.

C. Resolution of results classified as inconclusive.

   All results classified as inconclusive above require further investigation. Take a 120-second nominal XRF reading and use the K-shell reading. In multifamily housing, resolve the inconclusive classification with a single K-shell reading or laboratory analysis as described below.

   - Classify the result as POSITIVE if either the K-reading minus the displayed precision value <u>or</u> the lower K-reading is equal to or greater than 1.0.

   - Classify the result as NEGATIVE if either the K-reading plus the displayed precision value <u>or</u> the upper K-reading is less than 1.0.

   - Classify the result as INCONCLUSIVE if neither of the above decision rules using the K-reading provided a classification which can occur when the upper K-reading is equal to or greater than 1.0 or the lower K-reading is less than 1.0.

- To resolve a remaining INCONCLUSIVE classification, remove a paint-chip sample as described in Chapter 7 of the HUD Guidelines and have it analyzed by a qualified laboratory as described in Chapter 7.

TESTING TIMES (FOR SOFTWARE VERSION 5.1):

For the variable-time paint test mode "K & L + Spectra," the instrument continues measuring until a positive or negative result is indicated relative to an action level (1.0 mg/cm^2 for archive testing) and the current precision, or until the reading is terminated by moving the instrument away from the testing surface. None of the variable mode readings were terminated because of the two-minute limit used for archive testing. The following table provides testing time information for this testing mode. Source strength and type of substrate will affect actual testing times.

Testing Times for Instruments Running Software Version 5.1						
Variable mode testing times (seconds)						
	All data			Median for laboratory—measured lead levels (mg/cm^2)		
Substrate	25th Percentile	Median	75th Percentile	Pb < 0.25	0.25 <= Pb < 1.0	1.0 <= Pb
Wood Drywall	6	8	15	6	20	5
Metal	6	13	20	13	20	6
Brick Concrete Plaster	6	11	20	9	18	6

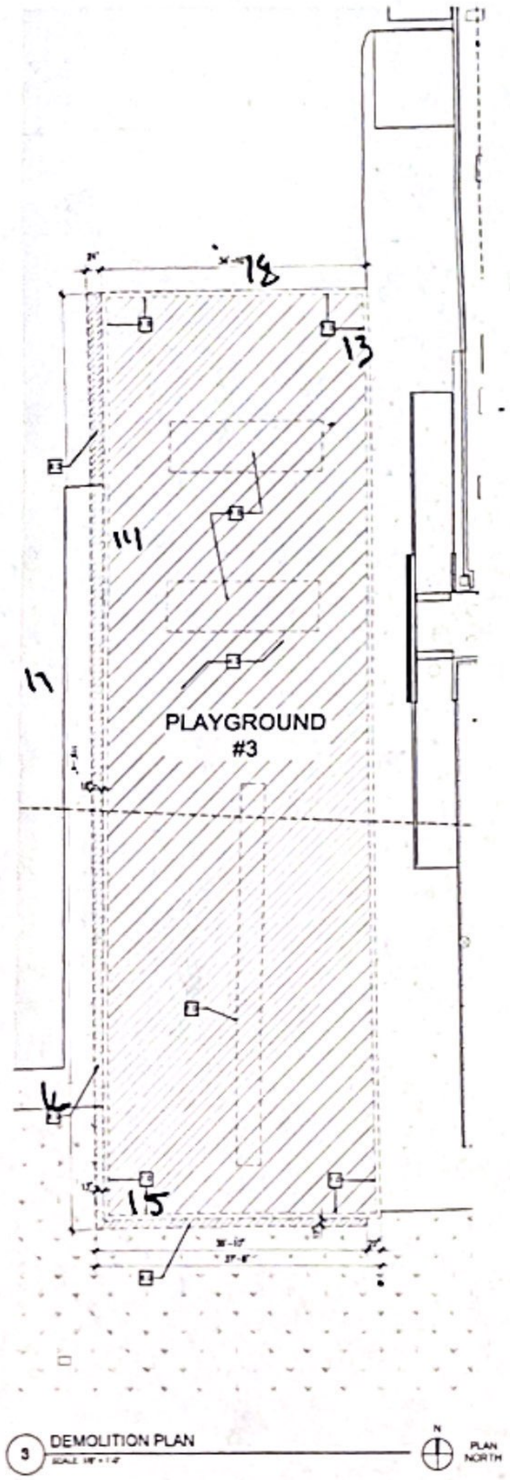
DOCUMENTATION:

This PCS was developed in accordance with the methodology in the EPA report titled *Methodology for XRF Performance Characteristic Sheets* (EPA 747-R-95-008, September 1997). This report provides an explanation of the statistical methodology used to construct the data in the sheets, and provides empirical results from using the recommended inconclusive ranges or thresholds for specific XRF instruments. For a copy of this document call the National Lead Clearinghouse at 1-800-424-LEAD.

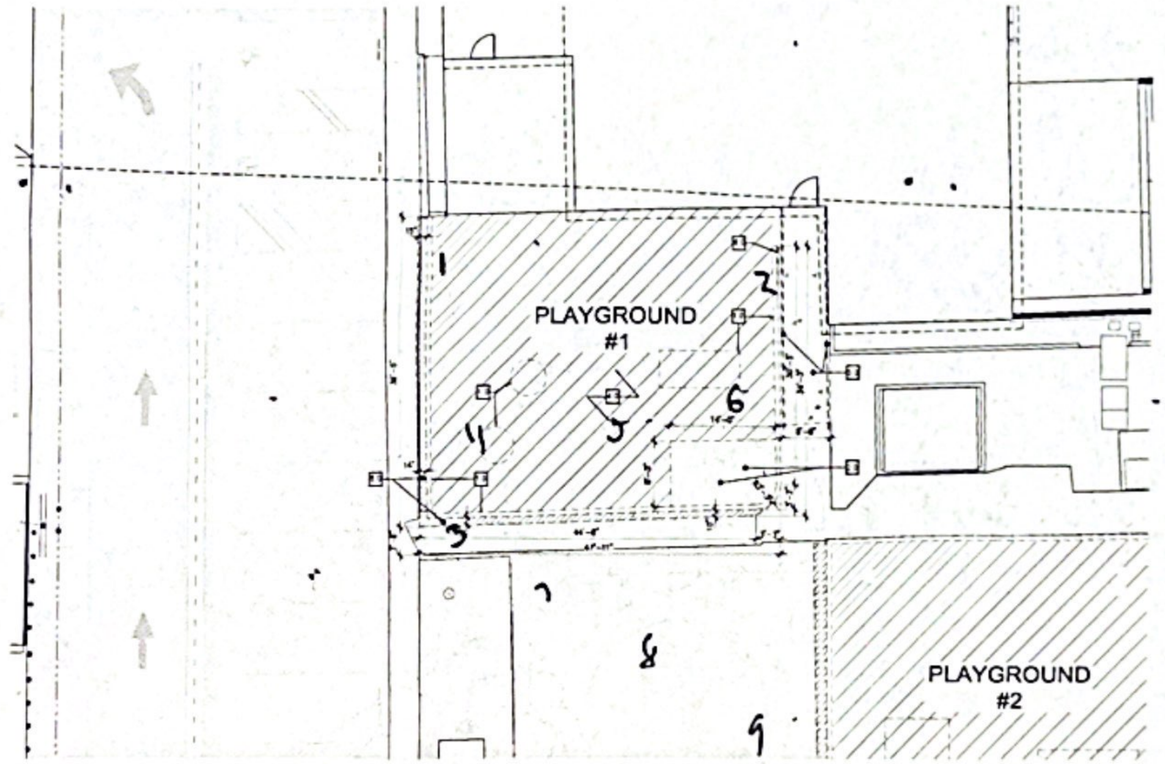
This XRF Performance Characteristic Sheet was developed by the Midwest Research Institute (MRI) under a grant from the U. S. Environmental Protection Agency and a separate contract between MRI and the XRF manufacturer. The U.S. Department of Housing and Urban Development (HUD) has determined that the information provided here is acceptable when used as guidance in conjunction with Chapter 7, Lead-Based Paint Inspection, of HUD's *Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing*. While MRI reserves the right to revise this XRF Performance Characteristic Sheet at any time, HUD's statement of acceptance would not apply to a revision until HUD has reviewed the revision and made a determination of its acceptability.

APPENDIX C:

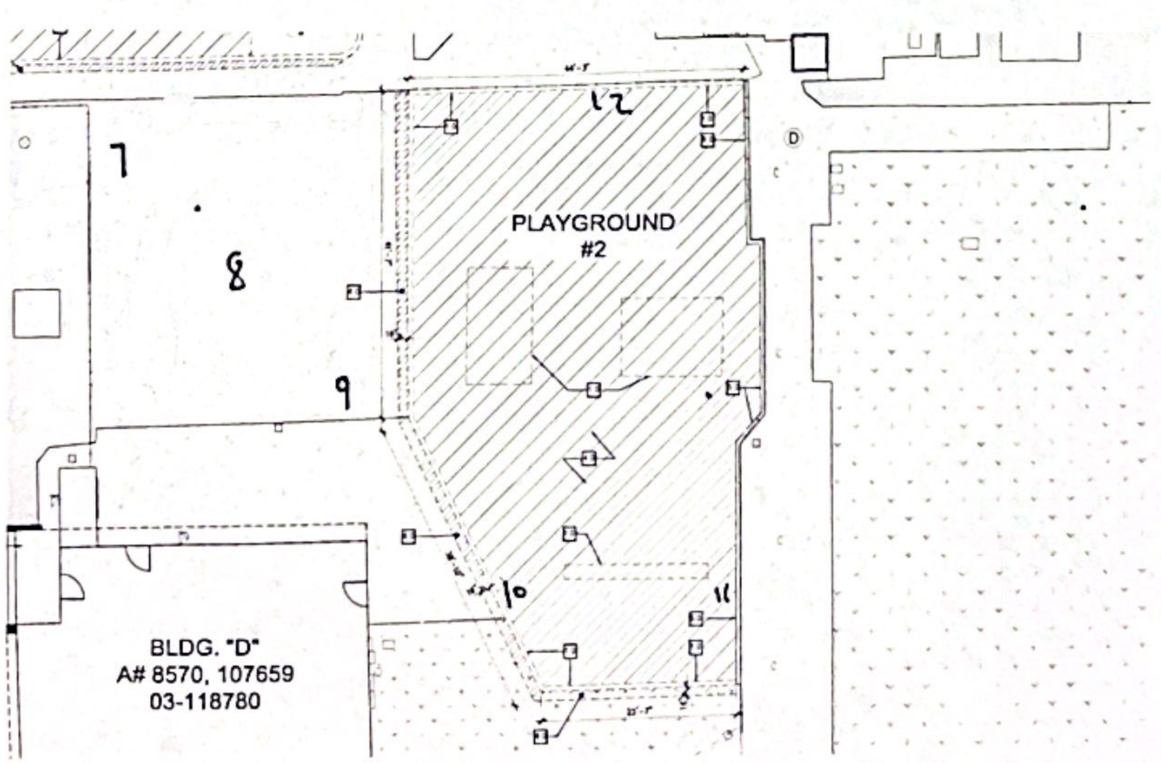
SAMPLE DIAGRAMS



3 DEMOLITION PLAN



1 DEMOLITION PLAN



2 DEMOLITION PLAN

N PLAN NORTH

GENERAL NOTES

1. THE DEMOLITION PLANS INCLUDE THE SCOPE OF DEMOLITION WORK REQUIRED BUT ARE NOT INTENDED TO INCLUDE ALL OF THE DETAILED REQUIREMENTS. ALL DEMOLITION WORK NOT SHOWN OR REQUIRED BY SPECIFICATIONS WHICH IS REQUIRED FOR COMPLETION OF WORK INCLUDED IN THE CONTRACT DOCUMENTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
2. COORDINATE ALL DEMOLITION WORK WITH ALL TRADES AND REVIEW DRAWINGS FOR EXACT LOCATIONS OF ALL SCOPE, PRIOR TO STARTING WORK.
3. ALL EXISTING WALLS, STRUCTURE, DOORS AND OTHER ITEMS TO REMAIN ARE SHOWN AS SOLID WEIGHT OR INDICATED AS SUCH BY NOTE. ALL STRUCTURAL MEMBERS, SLABS ARE TO REMAIN UNLESS SPECIFICALLY NOTED OTHERWISE.

GRAPHIC LEGEND

EXISTING TO REMAIN

EXISTING TO BE DEMOLISHED

KEYNOTES

1. REMOVE EXISTING PLAYGROUND EQUIPMENT AND DEMOLISH EXISTING CONCRETE CURB.
2. EXISTING PLAYGROUND MULCH AND EXISTING TREES TO REMAIN. PROTECT DURING CONSTRUCTION.
3. REMOVE EXISTING CONCRETE RAMP AND HANDRAILS.
4. REMOVE EXISTING PLAYGROUND SURFACING.
5. EXISTING CONCRETE CURB AND FENCE TO REMAIN. PROTECT DURING CONSTRUCTION.
6. REMOVE PORTION OF EXISTING CONCRETE WALKWAY, GRASS AND/OR ASPHALT.

Nicky Gutierrez-Moreno
ACM Bulk Sample)
03-04-2024

FILE No. 19-91 AP 03-127588

REV DATE DESCRIPTION

ROSEMEAD SCHOOL DISTRICT
SAVANNAH ELEMENTARY SCHOOL
CONSTRUCTION OF NEW PLAYGROUNDS
3738 ROSEMEAD BLVD ROSEMEAD, CA 91770

ROSEMEAD SCHOOL DISTRICT

NAC ARCHITECTURE

161.23035
AS
MO.DC
08/30/2023

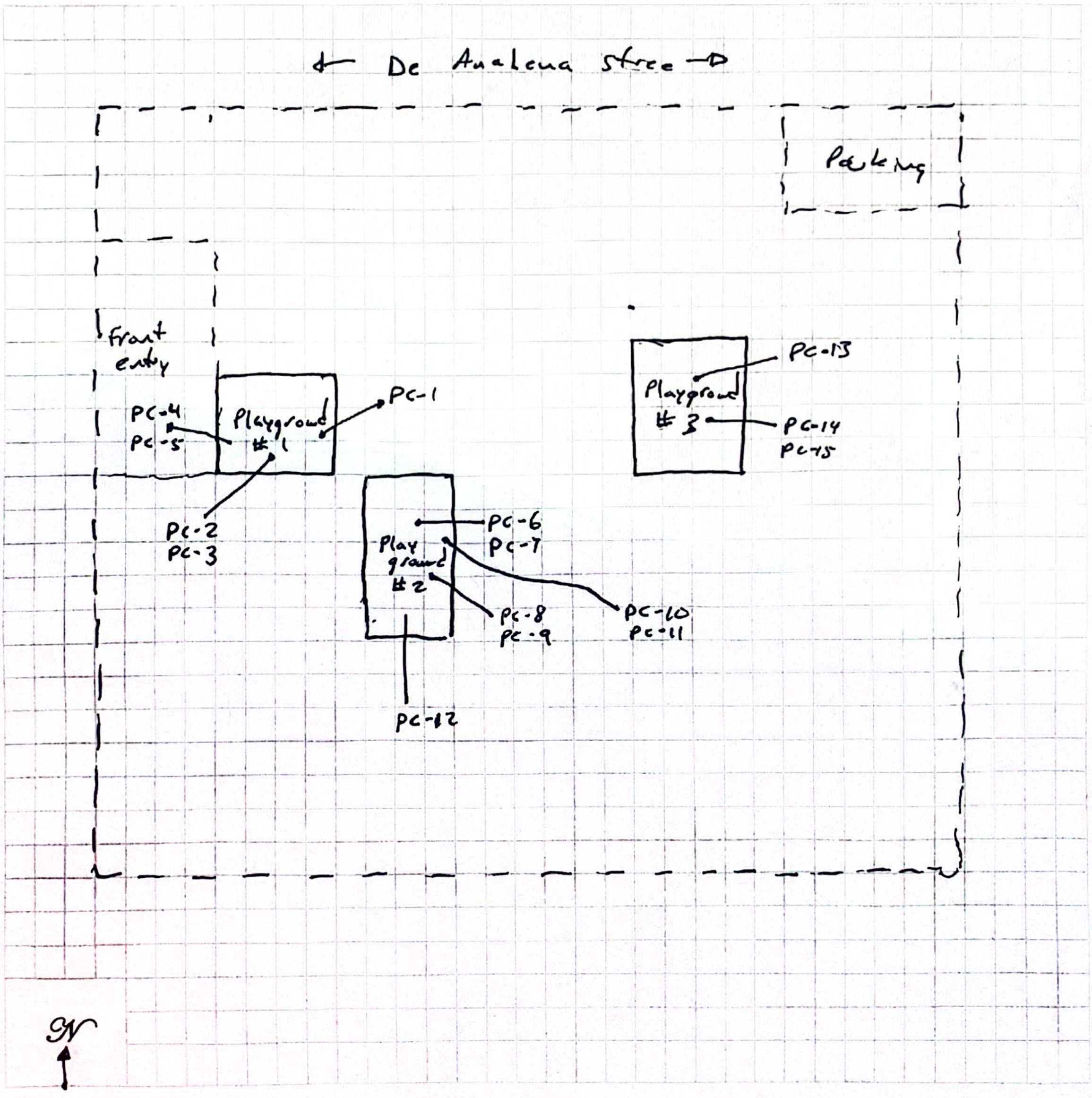
DEMOLITION PLAN

A2.00

ENVIRONMENTAL CONSULTANTS

6741 Friends Avenue,
Suite B
Whittier, California 90601
562-693-3055
cesenviron.com

Date:	3-4-2024	**CES Representative(s):**	Fabian Revuelta
Project No.:		**Project Name:**	Savannah E.S.
Project Location:	Rosemead E.S.	**Project Area:**	Playgrounds



APPENDIX D:

INSPECTOR CERTIFICATIONS

STATE OF CALIFORNIA Gavin Newsom, Governor

DEPARTMENT OF INDUSTRIAL RELATIONS
Division of Occupational Safety and Health-Asbestos Certification
1750 Howe Avenue, Suite 460
Sacramento, CA 95825
(916) 574-2993 Office http://www.dir.ca.gov/dosh/asbestos.html actu@dir.ca.gov

508111799C 113 115

CES Environmental Consultants
Cesar Ruvalcaba
6741 Friends Avenue, Suite B
Whittier CA 90601

October 09, 2023

Dear Certified Asbestos Consultant or Technician:

Enclosed is your certification card. **To maintain your certification, you must abide by the rules printed on the back of the certification card.**

Your certification is valid for a period of one year. If you wish to renew your certification, you must apply for renewal at least 60 days before the expiration date shown on your card. [8 CCR 341.15(h)(1)].

Please hold and do not send copies of your required AHERA refresher renewal certificates to our office until you apply for renewal of your certification.

Certificates must be kept current if you are actively working as a CAC or CSST. The grace period is only for those who are not actively working as an asbestos consultant or site surveillance technician.

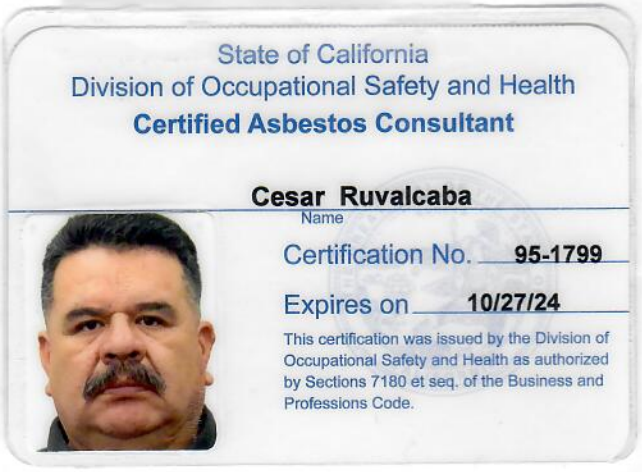
Please contact our office at the above address or email w any changes in your contact/mailing information within 15 days of the change.

Sincerely,

Kevin Graulich
Principal Safety Engineer

Attachment: Certification Card

cc: File



Renewal – Card Attached

California Department of PublicHealth

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC HEALTH

LEAD-RELATED CONSTRUCTION CERTIFICATE

INDIVIDUAL:	CERTIFICATE TYPE:	NUMBER:	EXPIRATION DATE:
 **Cesar Ruvalcaba**	Lead Inspector/Assessor	LRC-00003922	1/16/2025
	Lead Project Monitor	LRC-00003921	1/16/2025

Disclaimer: This document alone should not be relied upon to confirm certification status. Compare the individual's photo and name to another valid form of government issued photo identification. Verify the individual's certification status by searching for Lead-Related Construction Professionals at www.cdph.ca.gov/programs/clppb or calling (800) 597-LEAD

STATE OF CALIFORNIA Gavin Newsom, Governor

DEPARTMENT OF INDUSTRIAL RELATIONS
Division of Occupational Safety and Health-Asbestos Certification
1750 Howe Avenue, Suite 460
Sacramento, CA 95825
(916) 574-2993 Office http://www.dir.ca.gov/dosh/asbestos.html actu@dir.ca.gov

510025533C **404**

October 18, 2023

CES Environmental Consultants, Inc.
Fabian Ruvalcaba
6741 Friends Avenue, Suite B
Whittier CA 90601

Dear Certified Asbestos Consultant or Technician:

Enclosed is your certification card. **To maintain your certification, you must abide by the rules printed on the back of the certification card.**

Your certification is valid for a period of one year. If you wish to renew your certification, you must apply for renewal at least 60 days before the expiration date shown on your card. [8 CCR 341.15(h)(1)].

Please hold and do not send copies of your required AHERA refresher renewal certificates to our office until you apply for renewal of your certification.

Certificates must be kept current if you are actively working as a CAC or CSST. The grace period is only for those who are not actively working as an asbestos consultant or site surveillance technician.

Please contact our office at the above address or email w any changes in your contact/mailing information within 15 days of the change.

Sincerely,

Kevin Graulich
Principal Safety Engineer

Attachment: Certification Card

cc: File

Renewal – Card Attached

State of California
Division of Occupational Safety and Health

Certified Site Surveillance Technician

Nicky Gutierrez-Moreno
Name

Certification No. ~~20-6787~~

Expires on ~~09/20/24~~

This certification was issued by the Division of Occupational Safety and Health as authorized by Sections 7180 et seq. of the Business and Professions Code.

California Department of PublicHealth

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC HEALTH

LEAD-RELATED CONSTRUCTION CERTIFICATE

INDIVIDUAL:	CERTIFICATE TYPE:	NUMBER:	EXPIRATION DATE:
	Lead Sampling Technician	LRC-00006140	4/16/2024

Nicky Gutierrez-Moreno

Disclaimer: This document alone should not be relied upon to confirm certification status. Compare the individual's photo and name to another valid form of government issued photo identification. Verify the individual's certification status by searching for Lead-Related Construction Professionals at www.cdph.ca.gov/programs/clppb or calling (800) 597-LEAD

California Department of PublicHealth

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC HEALTH

LEAD-RELATED CONSTRUCTION CERTIFICATE

INDIVIDUAL:	CERTIFICATE TYPE:	NUMBER:	EXPIRATION DATE:
 Fabian Rubalcaba	Lead Inspector/Assessor	LRC-00004100	12/6/2024

Disclaimer: This document alone should not be relied upon to confirm certification status. Compare the individual's photo and name to another valid form of government issued photo identification. Verify the individual's certification status by searching for Lead-Related Construction Professionals at www.cdph.ca.gov/programs/clppb or calling (800) 597-LEAD