Rosemead School District

TECHNICAL SPECIFICATION

HAZARDOUS MATERIALS REMOVAL/IMPACT

CAMPUS WIDE EXTERIOR PAINTING PROJECT

JASON ELEMENTARY SCHOOL
8628 MARSHALL AVENUE
ROSEMEAD, CALIFORNIA 91770

Volume 1 of 1

EE Project No. 20-Z0046-0134

JANUARY 22, 2021

EXECUTIVE ENVIRONMENTAL
HEALTH & SAFETY SIMPLIFIED

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DIVISION 1

GENERAL REQUIREMENTS

SECTION 01010

SCOPE OF WORK

1.1 GENERAL:

The work to be performed by the contractor comprises:

PROJECT: HAZARDOUS MATERIAL REMOVAL/IMPACT IN CONJUNCTION WITH THE CAMPUS WIDE EXTERIOR PAINTING PROJECT

OWNER: ROSEMEAD SCHOOL DISTRICT

1.2 THE SITE:

The work will be performed at the following site within the Rosemead School District:

Site Location
Janson Elementary School 8628 Marshall Avenue Rosemead, California 91770

The exact scope and limits of work are the sole responsibility of the Abatement Contractor, he/she shall determine and verify all conditions, quantities, and situations adjoining his/her work and existing items. It is the responsibility of the Abatement Contractor and or prime trade to use trained personnel, proper personal protection and monitoring, wet methods, and compliant disposal of those materials that might be impacted during this project.

1.3 POTENTIAL ASBESTOS HAZARD

A. Abatement Contractor is warned that unprotected exposure to asbestos fibers has been determined to significantly increase risk of incurring the following diseases: asbestosis, lung cancer, mesothelioma, and certain gastrointestinal cancers. Care must be taken to avoid releasing or causing to be released, asbestos fibers into the atmosphere. Within Code of Federal Regulations, Title 29, Section 1926.1101 (abbreviated as 29 CFR 1926.1101), the Occupational Safety and Health Administration (OSHA) has set standards for permissible exposure to airborne concentrations of asbestos fibers, methods of compliance, personal protective equipment, and other methods which must be utilized when working with, or in proximity to asbestos. In executing the contract, the Abatement Contractor certifies that he shall comply with all parts of this regulation, as well as any more stringent requirements as specified in this specification.

B. Abatement Contractor shall presume that detectable levels of asbestos are present in all existing installed surfaces, except and unless objective information to the contrary is provided by the Owner, Owner's Representative, or Owner's Consultant. The Abatement Contractor shall be responsible for conformance with all applicable Cal/Occupational Safety and Health Administration (Cal/OSHA) Worker Protection and Cal/Environmental Protection Agency (EPA) Environmental Protection requirements pertaining to asbestos as applicable to the Abatement Contractor's work.

1.4 LEAD-BASED PAINT HAZARD

Lead has been used as a key ingredient in paint for many years. Cal/OSHA requires all employers of employees who work with materials that may be toxic, including lead-containing paint, to provide hazard communication and training to their employees. All contractors shall ensure that they are in compliance with all Cal/OSHA and applicable regulations. Additionally, the contractors shall observe the following work practices:

- Absolutely no dry sanding of painted surfaces.
- When surface cleaning is necessary for repainting, surfaces shall be wet-cleaned or HEPA vacuumed.
- Voids or ridges in painted surfaces shall be filled or "feathered" as necessary with compatible, non-lead containing products.
- Paint Film Stabilization is required where loose and flaky paint exists prior to component removal and/or demolition. A top coat sealer shall be applied to prevent further lead-based paint (LBP) flaking during removal.
- All cleanup of debris shall include wet methods or use of a high efficiency particulate air (HEPA) filtered vacuum.
- All paint debris and disposable equipment/materials from surface preparation, demolition or other paint disturbance, shall be contained and removed from the site.

1.5 SCOPE OF WORK:

Contractor will follow the applicable abatement procedures listed below for that material. Where conflict among requirements or with these specifications exists, the more stringent requirements shall apply.

Hazardous Materials Removal: This Contract covers the furnishings of all labor and materials and proper disposal required for impacting of hazardous materials from the following areas:

A. Asbestos-Containing Materials:

Asbestos-Containing Materials Building A (Administration/Room 3)						
Item No.	**Material Description**	**Type of work**	**Location**	**Quantity**	**ACM content**	**Applicable Haz. Mat'l section**
1	No regulated asbestos-containing materials were identified as pertaining to the materials anticipated to be impacted by the Exterior Painting Project.					

Asbestos-Containing Materials Building B (Room 4)						
Item No.	**Material Description**	**Type of work**	**Location**	**Quantity**	**ACM content**	**Applicable Haz. Mat'l section**
2	No regulated asbestos-containing materials were identified as pertaining to the materials anticipated to be impacted by the Exterior Painting Project.					

Asbestos-Containing Materials Building C (Multi-Purpose Building)						
Item No.	**Material Description**	**Type of work**	**Location**	**Quantity**	**ACM content**	**Applicable Haz. Mat'l section**
3	No regulated asbestos-containing materials were identified as pertaining to the materials anticipated to be impacted by the Exterior Painting Project.					

Asbestos-Containing Materials Building D (Classrooms 10 thru 12)						
Item No.	**Material Description**	**Type of work**	**Location**	**Quantity**	**ACM content**	**Applicable Haz. Mat'l section**
4	No regulated asbestos-containing materials were identified as pertaining to the materials anticipated to be impacted by the Exterior Painting Project.					

Asbestos-Containing Materials Building D (Classrooms 13 thru 16)						
Item No.	**Material Description**	**Type of work**	**Location**	**Quantity**	**ACM content**	**Applicable Haz. Mat'l section**
5	No regulated asbestos-containing materials were identified as pertaining to the materials anticipated to be impacted by the Exterior Painting Project.					

Asbestos-Containing Materials Building E (Classrooms 17 thru 19)						
Item No.	**Material Description**	**Type of work**	**Location**	**Quantity**	**ACM content**	**Applicable Haz. Mat'l section**
6	No regulated asbestos-containing materials were identified as pertaining to the materials anticipated to be impacted by the Exterior Painting Project.					

Asbestos-Containing Materials Building F (Classrooms 20 thru 23)						
Item No.	**Material Description**	**Type of work**	**Location**	**Quantity**	**ACM content**	**Applicable Haz. Mat'l section**
7	No regulated asbestos-containing materials were identified as pertaining to the materials anticipated to be impacted by the Exterior Painting Project.					

Asbestos-Containing Materials Building H (Classrooms 5 thru 9)						
Item No.	**Material Description**	**Type of work**	**Location**	**Quantity**	**ACM content**	**Applicable Haz. Mat'l section**
8	No regulated asbestos-containing materials were identified as pertaining to the materials anticipated to be impacted by the Exterior Painting Project.					

Asbestos-Containing Materials Restroom Building 1						
Item No.	**Material Description**	**Type of work**	**Location**	**Quantity**	**ACM content**	**Applicable Haz. Mat'l section**
9	No regulated asbestos-containing materials were identified as pertaining to the materials anticipated to be impacted by the Exterior Painting Project.					

Asbestos-Containing Materials Restroom Building 2						
Item No.	**Material Description**	**Type of work**	**Location**	**Quantity**	**ACM content**	**Applicable Haz. Mat'l section**
10	No regulated asbestos-containing materials were identified as pertaining to the materials anticipated to be impacted by the Exterior Painting Project.					

Asbestos-Containing Materials Covered Walkways						
Item No.	**Material Description**	**Type of work**	**Location**	**Quantity**	**ACM content**	**Applicable Haz. Mat'l section**
11	No regulated asbestos-containing materials were identified as pertaining to the materials anticipated to be impacted by the Exterior Painting Project for Covered Walkways no. 7 and 10.					
12	No suspect asbestos-containing materials were identified as pertaining to the materials anticipated to be impacted by the Exterior Painting Project for Covered Walkways no. 1 thru 6, 8, 9, 11 and 12.					

Asbestos-Containing Materials Campus						
Item No.	**Material Description**	**Type of work**	**Location**	**Quantity**	**ACM content**	**Applicable Haz. Mat'l section**
13	No suspect asbestos-containing materials were identified as pertaining to the materials anticipated to be impacted by the Exterior Painting Project for Kindergarten Playground, South Playground, Driveway to South Parking Lot, School sign at South Parking Lot, South Parking Lot and School sign north by Building A (Administration/Room 3).					

Asbestos-Containing Materials Portables						
Item No.	**Material Description**	**Type of work**	**Location**	**Quantity**	**ACM content**	**Applicable Haz. Mat'l section**
14	No suspect asbestos-containing materials were identified as pertaining to the materials anticipated to be impacted by the Exterior Painting Project for Building J (Room 24), Building K (Room 25), Building O (Portable 42), Building P (Portable 43), Building L (Portables 26 thru 29 and Restroom), Building Q (Portables 30 thru 32), Building M (Portables 33 thru 37) and Building N (Portables 38 thru 41).					

END OF ASBESTOS SCOPE

B. Lead-Based Paint Procedures:

1. Remove and dispose of surfaces coated with lead-based paint/glaze from areas designated by the various prime trades and/or Construction Manager as required for construction of the Project. Some work may require only partial removal of the materials/components listed.
2. It is the responsibility of all contractors to use trained and certified personnel in accordance with California Department of Public Health (CDPH) and the Environmental Protection Agency's (EPA) Renovation, Repair, and Painting (RRP) regulations, and use proper personal protection and monitoring, wet methods, and proper disposal of materials that might be impacted during this project.
3. Paint film stabilization is required where loose and flaky paint exist prior to component removal or demolition. A top coat sealer shall be applied to prevent futher LBP flaking during removal.
4. For all surfaces scheduled for repainting, paint film stabilization or paint removal will be required. Loose and flaky paint should be scraped and a top-coat compatible primer should be applied. In addition, a top-coat compatible primer should be applied over intact areas for further surface preparation/painting by other trades.
5. Clearance sampling will be accomplished via lead wipe samples collected at random location throughout the work areas.
6. Contractor should work on no more than one (1) building at any one time. All work must be completed prior to starting an additional work area/building. If an area should fail clearance wipe sampling, contractor is to return to re-clean area at start of shift following receipt of sample results.
7. The contractor shall be responsible for all testing required for the proper disposal of all lead-based paint and lead-containing waste materials. This will require testing using waste stream analysis by the TTLC, STLC, and TCLP methods successively, if necessary, to determine non-regulatory limits for disposal. Contractor shall ensure that the attending consultant monitors and is aware (in writing) of each specific material sampling for waste stream analysis. **This information must be provided to the consultant prior to the material being removed from the site for testing.** Materials shall not be removed from the site until such testing and its results are provided to the consultant.

Lead-based paint scope of work will start on the next page.

Lead-Based Paint Building A (Administration/Room 3)						
Item No.	**Material Description**	**Type of work**	**Location**	**Quantity**	**Lead content Mg/cm^2**	**Applicable Haz. Mat'l section**
15	Wood wall panel frame	Surface preparation for repainting as indicated in plans	Exterior, side C	12 Linear feet (1 total)	6.7	02093 HM
16	Wood door frame	Surface preparation for repainting as indicated in plans	Exterior, side A at room 3	1 Total	6.4	02093 HM
17	Wood transom frame	Surface preparation for repainting as indicated in plans		1 Total	3.1	02093 HM
18	Wood eave components	Surface preparation for repainting as indicated in plans	Exterior, sides A and C at lower roof	720 Square Feet	3.1-4.1	02093 HM
19	Wood window trim/casing	Surface preparation for repainting as indicated in plans	Exterior, side A	155 Linear Feet	7.8	02093 HM

Lead-Based Paint Building B (Room 4)						
Item No.	**Material Description**	**Type of work**	**Location**	**Quantity**	**Lead content Mg/cm^2**	**Applicable Haz. Mat'l section**
20	Wood window components	Surface preparation for repainting as indicated in plans	Exterior, sides A and B	85 Linear Feet	1-1.4	02093 HM
21	Wood window riser	Surface preparation for repainting as indicated in plans	Exterior, northeast corner	4 Linear Feet	7.4	02093 HM
22	Wood eave components	Surface preparation for repainting as indicated in plans	Exterior, sides A and B	210 Square Feet	1.7-4.4	02093 HM

Lead-Based Paint Building C (Multi-Purpose Room						
Item No.	**Material Description**	**Type of work**	**Location**	**Quantity**	**Lead content Mg/cm^2**	**Applicable Haz. Mat'l section**
23	No regulated lead-based paint was identified as pertaining to the surfaces or components anticipated to be impacted by the Exterior Painting Project.					

Lead-based paint scope of work continues on the next page.

Lead-Based Paint Building D (Classrooms 10 thru 12)						
Item No.	**Material Description**	**Type of work**	**Location**	**Quantity**	**Lead content Mg/cm^2**	**Applicable Haz. Mat'l section**
24	Wood wall panel frame	Surface preparation for repainting as indicated in plans	Exterior, side C	12 Linear feet (1 total)	8.4	02093 HM
25	Wood window casing	Surface preparation for repainting as indicated in plans	Exterior, side A at classrooms	250 Linear Feet	10.2-10.5	02093 HM
26	Wood wall trim	Surface preparation for repainting as indicated in plans	Exterior, side A at entries	8 Linear Feet	9.1	02093 HM
27	Wood door frame	Surface preparation for repainting as indicated in plans	Exterior, side A at classrooms 11 and 12	2 Total	8	02093 HM
28	Wood transom frame	Surface preparation for repainting as indicated in plans		2 Total	4.8	02093 HM
29	Wood eave components	Surface preparation for repainting as indicated in plans	Exterior, sides A and C at upper roof of building and east breezeway	810 Square Feet	1.6-4.3	02093 HM

Lead-based paint scope of work continues on the next page

Lead-Based Paint Building D (Classrooms 13 thru 16)						
Item No.	**Material Description**	**Type of work**	**Location**	**Quantity**	**Lead content Mg/cm^2**	**Applicable Haz. Mat'l section**
30	Metal wall panel	Surface preparation for repainting as indicated in plans	Exterior, side D	2 Square Feet	3.4	02093 HM
31	Wood fire house cabinet door	Surface preparation for repainting as indicated in plans	Exterior, side C	1 Door	2.2	02093 HM
32	Wood ceiling beam	Surface preparation for repainting as indicated in plans	Exterior, sides A and C at east breezeway	18 Linear Feet	1.3	02093 HM
33	Metal ceiling beam bracket	Surface preparation for repainting as indicated in plans	Exterior, side C, at breezeway	2 Total	1.5	02093 HM
34	Wood door frame	Surface preparation for repainting as indicated in plans	Exterior, side A at rooms 13, 14 and 16	3 Total	3.1	02093 HM
35	Wood transom frame	Surface preparation for repainting as indicated in plans			0.9	02093 HM
36	Wood wall trim	Surface preparation for repainting as indicated in plans	Exterior, side A at entries	12 Linear Feet	2.1	02093 HM
37	Wood window casing	Surface preparation for repainting as indicated in plans	Exterior, side A	320 Linear Feet	2.2	02093 HM
38	Wood eave components	Surface preparation for repainting as indicated in plans	Exterior, sides A and C at upper and lower roofs and east breezeway	1,040 Square Feet	1-1.7	02093 HM

Lead-based paint scope of work continues on the next page.

Lead-Based Paint Building E (Classrooms 17 thru 19)						
Item No.	**Material Description**	**Type of work**	**Location**	**Quantity**	**Lead content Mg/cm^2**	**Applicable Haz. Mat'l section**
39	Metal wall panel	Surface preparation for repainting as indicated in plans	Exterior, side D	2 Square feet	3.5	02093 HM
40	Metal fire house cabinet door frame	Surface preparation for repainting as indicated in plans	Exterior, side C	1 Door	2.2	02093 HM
41	Wood ceiling beam	Surface preparation for repainting as indicated in plans	Exterior, side C, at east breezeway	9 Linear Feet	1.5	02093 HM
42	Metal ceiling beam bracket	Surface preparation for repainting as indicated in plans	Exterior, sides B and D	2 Total	2	02093 HM
43	Wood wall trim	Surface preparation for repainting as indicated in plans	Exterior, side A at entries	9 Linear Feet	7.8	02093 HM
44	Wood window casing	Surface preparation for repainting as indicated in plans	Exterior, side A	250 Linear Feet	9	02093 HM
45	Wood door frame	Surface preparation for repainting as indicated in plans	Exterior, side A at room 18	1 Total	8.1	02093 HM
46	Wood transom frame	Surface preparation for repainting as indicated in plans		1 Total	1.2	02093 HM
47	Wood eave components	Surface preparation for repainting as indicated in plans	Exterior, sides A and C east breezeway	810 Square Feet	3.9-4.6	02093 HM
48	Metal wall vent	Surface preparation for repainting as indicated in plans	Exterior, side C, above walkway	1 Total	6.7	02093 HM

Lead-based paint scope of work continues on the next page.

Lead-Based Paint Building F (Classrooms 20 thru 23)						
Item No.	**Material Description**	**Type of work**	**Location**	**Quantity**	**Lead content Mg/cm^2**	**Applicable Haz. Mat'l section**
49	Wood fire house cabinet door	Surface preparation for repainting as indicated in plans	Exterior, side C	1 Total	6.1	02093 HM
50	Metal fire house cabinet door frame	Surface preparation for repainting as indicated in plans		1 Total	2.9	02093 HM
51	Wood ceiling beam	Surface preparation for repainting as indicated in plans	Exterior, side C, at east breezeway	9 Linear Feet	4.4	02093 HM
52	Metal ceiling beam bracket	Surface preparation for repainting as indicated in plans	Exterior sides B and D	4 Total	12.9	02093 HM
53	Wood wall trim	Surface preparation for repainting as indicated in plans	Exterior, side A at entries	12 Linear Feet	6.7	02093 HM
54	Wood window casing	Surface preparation for repainting as indicated in plans	Exterior, side A	328 Linear Feet	7.4	02093 HM
55	Wood door frame	Surface preparation for repainting as indicated in plans	Exterior, side A of rooms 20 and 22	2 Total	14.8	02093 HM
56	Wood transom frame	Surface preparation for repainting as indicated in plans		2 Total	1.6	02093 HM
57	Wood eave components	Surface preparation for repainting as indicated in plans	Exterior, side A and C at upper and lower roofs and east breezeway	1,040 Square Feet	3.4-5.2	02093 HM

Lead-Based Paint Building H (Classrooms 5 thru 9)						
58	Metal overhang beam	Surface preparation for repainting as indicated in plans	Exterior, sides A and C	116 Linear Feet	2.5	02093 HM

Lead-Based Paint Restroom Building 1						
59	Metal ceiling beam bracket	Surface preparation for repainting as indicated in plans	Exterior, sides A, C and D	4 Total	8.6	02093 HM
60	Wood eave components	Surface preparation for repainting as indicated in plans	Exterior, sides A and C	180 Square Feet	1.4-2.8	02093 HM
61	Metal attic access frame	Surface preparation for repainting as indicated in plans	Exterior, side A	1 Total	2.1	02093 HM

Lead-based paint scope of work continues on the next page.

Lead-Based Paint Restroom Building 2						
Item No.	**Material Description**	**Type of work**	**Location**	**Quantity**	**Lead content Mg/cm^2**	**Applicable Haz. Mat'l section**
62	Wood eave components	Surface preparation for repainting as indicated in plans	Exterior, sides A and C	180 Square Feet	3.1-4.4	02093 HM
63	Metal attic access frame	Surface preparation for repainting as indicated in plans	Exterior, side A	1 Total	2.7	02093 HM
64	Metal ceiling beam bracket	Surface preparation for repainting as indicated in plans	Exterior, side A and D	2 Total	1.9	02093 HM

Lead-Based Paint Building J (Portable 24)						
Item No.	**Material Description**	**Type of work**	**Location**	**Quantity**	**Lead content Mg/cm^2**	**Applicable Haz. Mat'l section**
65	No regulated lead-based paint was identified as pertaining to the surfaces or components anticipated to be impacted by the Exterior Painting Project.					

Lead-Based Paint Building K (Portable 25)						
Item No.	**Material Description**	**Type of work**	**Location**	**Quantity**	**Lead content Mg/cm^2**	**Applicable Haz. Mat'l section**
66	No regulated lead-based paint was identified as pertaining to the surfaces or components anticipated to be impacted by the Exterior Painting Project.					

Lead-Based Paint Building L (Portables 26 thru 29 and Restroom)						
Item No.	**Material Description**	**Type of work**	**Location**	**Quantity**	**Lead content Mg/cm^2**	**Applicable Haz. Mat'l section**
67	No regulated lead-based paint was identified as pertaining to the surfaces or components anticipated to be impacted by the Exterior Painting Project.					

Lead-based paint scope of work continues on the next page.

Lead-Based Paint Building Q (Portables 30 thru 32)						
Item No.	**Material Description**	**Type of work**	**Location**	**Quantity**	**Lead content Mg/cm^2**	**Applicable Haz. Mat'l section**
68	No regulated lead-based paint was identified as pertaining to the surfaces or components anticipated to be impacted by the Exterior Painting Project.					

Lead-Based Paint Building M (Portables 33 thru 37)						
Item No.	**Material Description**	**Type of work**	**Location**	**Quantity**	**Lead content Mg/cm^2**	**Applicable Haz. Mat'l section**
69	No regulated lead-based paint was identified as pertaining to the surfaces or components anticipated to be impacted by the Exterior Painting Project.					

Lead-Based Paint Building N (Portables 38 thru 41)						
Item No.	**Material Description**	**Type of work**	**Location**	**Quantity**	**Lead content Mg/cm^2**	**Applicable Haz. Mat'l section**
70	No regulated lead-based paint was identified as pertaining to the surfaces or components anticipated to be impacted by the Exterior Painting Project.					

Lead-Based Paint Building O (Portable 42)						
Item No.	**Material Description**	**Type of work**	**Location**	**Quantity**	**Lead content Mg/cm^2**	**Applicable Haz. Mat'l section**
71	No regulated lead-based paint was identified as pertaining to the surfaces or components anticipated to be impacted by the Exterior Painting Project.					

Lead-Based Paint Building P (Portable 43)						
Item No.	**Material Description**	**Type of work**	**Location**	**Quantity**	**Lead content Mg/cm^2**	**Applicable Haz. Mat'l section**
72	No regulated lead-based paint was identified as pertaining to the surfaces or components anticipated to be impacted by the Exterior Painting Project.					

Lead-based paint scope of work continues on the next page.

Lead-Based Paint Covered Walkways (No. 1 through 12)						
Item No.	**Material Description**	**Type of work**	**Location**	**Quantity**	**Lead content Mg/cm^2**	**Applicable Haz. Mat'l section**
73	Wood ceiling joist	Surface preparation for repainting as indicated in plans	Covered Walkway no. 1	180 Linear Feet	1	02093 HM
74	Wood ceiling beam	Surface preparation for repainting as indicated in plans	Covered Walkway no. 2	42 Square Feet	0.8	02093 HM
75	Wood ceiling joist	Surface preparation for repainting as indicated in plans		165 Linear Feet	0.9	02093 HM
76	Wood joist spacer	Surface preparation for repainting as indicated in plans		38 Linear Feet	0.7	02093 HM
77	Wood ceiling components	Surface preparation for repainting as indicated in plans	Covered Walkway no. 4	3,100 Square Feet	3-6	02093 HM
78	Wood ceiling components	Surface preparation for repainting as indicated in plans	Covered Walkway no. 5	600 Square Feet	1.1-1.4	02093 HM
79	Metal poles	Surface preparation for repainting as indicated in plans		16 Total	1.7	02093 HM
80	Wood ceiling components	Surface preparation for repainting as indicated in plans	Covered Walkway no. 6	2,800 Square Feet	2.5-4.2	02093 HM
81	Wood poles	Surface preparation for repainting as indicated in plans		2 Total	2.2	02093 HM
82	Wood ceiling components	Surface preparation for repainting as indicated in plans	Covered Walkway no. 7	300 Square Feet	1.6-3.5	02093 HM
83	Wood fascia	Surface preparation for repainting as indicated in plans		32 Linear Feet	0.8	02093 HM
84	Porcelain drinking fountain	Not anticipated to be impacted		1 Total	3.4	--------
85	Wood poles	Surface preparation for repainting as indicated in plans		2 Total	0.8	02093 HM

Lead-based paint scope of work continues on the next page.

Lead-Based Paint Covered Walkways (No. 1 through 12) continues						
Item No.	**Material Description**	**Type of work**	**Location**	**Quantity**	**Lead content Mg/cm^2**	**Applicable Haz. Mat'l section**
86	Wood ceiling components	Surface preparation for repainting as indicated in plans	Covered Walkway no. 8	1,710 Square Feet	0.7-1.7	02093 HM
87	Wood poles	Surface preparation for repainting as indicated in plans		9 Total	1.4	02093 HM
88	Wood ceiling components	Surface preparation for repainting as indicated in plans	Covered Walkway no. 9	1,900 Square Feet	0.7-3.3	02093 HM
89	Wood poles	Surface preparation for repainting as indicated in plans		5 Total	1.9	02093 HM
90	Metal joist brace	Surface preparation for repainting as indicated in plans		9 Linear Feet	3.4	02093 HM
91	Wood ceiling	Surface preparation for repainting as indicated in plans	Covered Walkway no. 10	300 Square Feet	0.8	02093 HM
92	Wood poles	Surface preparation for repainting as indicated in plans		5 Total	1.9	02093 HM
93	Wood ceiling components	Surface preparation for repainting as indicated in plans	Covered Walkway no. 11	1,350 Square Feet	1.4-3.3	02093 HM
94	Wood poles	Surface preparation for repainting as indicated in plans		3 Total	1.8	02093 HM
95	Metal joist braces	Surface preparation for repainting as indicated in plans		9 Linear Feet	3.4	02093 HM
96	No regulated lead-based paint was identified as pertaining to the surfaces or components anticipated to be impacted by the Exterior Painting Project for Covered Walkways no. 3 and 12.					

Lead-based paint scope of work continues on the next page.

Lead-Based Paint Campus						
Item No.	**Material Description**	**Type of work**	**Location**	**Quantity**	**Lead content Mg/cm^2**	**Applicable Haz. Mat'l section**
97	Metal support poles	Surface preparation for repainting as indicated in plans	Lunch shelter	8 Total	0.7	02093 HM
98	No regulated lead-based paint was identified as pertaining to the surfaces or components anticipated to be impacted by the Exterior Painting Project for the North Playground, Southeast Playground, South Playground, Pre-school Playground, Parking Lots (East, South and Northwest), Storage Shed, School Signs, Flag Pole and Perimeter Fence.					

END OF LBP SCOPE

END OF SCOPE OF WORK

1.6 WORK PLAN:

A preliminary work plan and proposed schedule shall be submitted with the bid form. Detailed work plan to be submitted within five (5) days of award of contract. At a minimum, the plan must include the following items:

A. **Project schedule:** Include the proposed shifts, time, and manpower (include number of men per shift).

B. **Detailed Work Plan:**

1. **Protective Equipment:** Specifying protective equipment (respiratory and body protection).
2. **Layout and Location on a drawing for each phase of work:**
   a. **Decontamination:** Decontamination areas.
   b. **Work Area:** Work area location, waste out area, location of equipment (staging area).
   c. **Waste Bin:** Location of waste bins.
3. **Document for each phase of work:**
   a. **Containment:** Containment construction and methods.
   b. **Disposal:** Disposal plan to include transporter and landfill name.
   c. **Removal Methods**: Removal methods to prohibit visible emissions. Specific techniques/procedures for each material to be abated.
   d. **Air monitoring firm/lab:** For conducting/analysis of personal samples.
   e. **Levels of respiratory protection:** Provide levels of respiratory protection for each type of removal (e.g., floor tile, drywall).
   f. **Equipment:** Equipment assigned to the project.

C. **Removal Methods:** In compliance with local, state, and federal requirements for asbestos removal.

D. **Contacts:** Point of contact for questions.

E. **Security/Fire Watch Plan:** Names, qualifications, etc. (if applicable)

1.7 SITE ACCESS

Site access is available during the days and hours as specified in bid and pre-construction meetings.

END OF SECTION

SECTION 01011 HM

ADDITONAL CONDITIONS FOR HAZARDOUS MATERIALS WORK

1.1 GENERAL:

A. The work to be performed by the HAZARDOUS MATERIALS CONTRACTOR is defined in the methodologies of the Hazardous Materials Specifications as referenced, the General and Special Conditions, Division1/General Requirements, all special requirements, Section 01011 HM and specifically outlined in the Scope of Work.

B. As further clarification the following apply to this contract:

1. This Contract covers the furnishings of all labor and materials and compliant disposal of hazardous materials impacted as required by the scope of work. Some work may require only partial removal of the materials listed.
2. It is the responsibility of the Abatement Contractor and/or prime trade to use trained personnel, proper personal protection and monitoring, wet methods and compliant disposal of those materials which might be impacted during this project.
3. The District has made every attempt to identify all materials which will be impacted by this project. Except for those materials where objective information is provided to the contrary by the Owner, Owner's Representative, or Owner's Consultant the Abatement Contractor shall presume that detectable levels of asbestos are present in all remaining materials. If the Contractor is to impact materials, the contractor shall contact the Owner or Owner's representative prior to such impact.
4. The Abatement Contractor shall be responsible for conformance with all applicable Cal/OSHA Worker Protection and Cal/EPA Environmental Protection and South Coast Air Quality Management District requirements pertaining to asbestos and/or lead paint as applicable to the Abatement Contractor's work.
5. Hazardous Materials Contractor shall use California Department of Public Health (CDPH) and the Environmental Protection Agency's (EPA) Renovation, Repair, and Painting (RRP) trained and certified personnel for all lead-related work. In addition, Hazardous Material Contractor must also be certified as a firm in accordance with the EPA's RRP regulation.
6. Contractor should work on no more than one (1) building at any one time. All work must be completed prior to starting an additional work area/building. If an area should fail clearance wipe sampling, contractor is to return to re-clean area at start of shift following receipt of sample results.
7. ***Area clearance for lead:*** For lead, all clearance wipes shall be randomly performed for those areas impacted through refinishing/repainting where scraping of LBP has occurred.
8. Contractor will follow the applicable abatement procedures listed in this scope of work. Where conflict among requirements or within these specifications exists, the more stringent requirements shall apply.
9. Provide an English-speaking On-site Competent Person who is able to understand and carry out the work set forth in the contract documents.
10. Have fully staffed and capable crews working simultaneously on separate areas as necessary to maintain the project schedule. This is to include working multiple shifts, off-hours construction, and weekends at no additional cost to the owner.
11. Be responsible for cooperation and coordination with school programs, Contractors of other Bid Packages, Testing Lab, local regulatory agencies, and Utility Companies.

12. Provide to District's Project Consultant satisfactory proof that the appropriate regulatory notification(s) has/have been issued and validation of a signed copy of the Contract with the District.
13. Supply power cords, distribution boxes, adapters, etc., as necessary to complete the work of this Bid package within the prescribed time frame and as such allows the District's Environmental Consultant to have access to five (5) free outlets per containment at any one time. Power will be supplied to locations within 25 feet of each containment/regulated area at no cost to the Environmental Consultant.
14. Provide task lighting as required to facilitate the work of the Bid Package in a timely manner according to the construction schedule. Provide sufficient task lighting to facilitate work of good quality. Provide sufficient task lighting for the Consultant during visual inspections and during clearance testing.
15. Normal hours of construction are from 7:00 am to 5:00 pm on a daily basis or as directed by District. Actual construction hours may be revised as project constraints may vary.
16. Provide and maintain sufficient hazardous waste containers to accommodate the hazardous waste generated on a daily basis. Full waste bin must be removed within two (2) days after bin is full. Waste and waste containers must be removed within two days (2) after the scheduled or agreed upon ending of project.
17. Maintain a clean work area. Perform a thorough clean-up of the area on a daily basis. All hazardous waste MUST be removed from the work area and stored in a locked waste bin.
18. Where areas are accessible from the exterior and cannot be secured because of containment restrictions, Hazardous Materials Contractor shall provide either 24-hour security or construct such a secured barrier while allowing Work Area accessibility to Emergency personnel, the Environmental Consultant, and the District at all times.
19. Hazardous Materials Contractor shall submit a detailed work plan and proposed schedule within five (5) days of award of contract. At a minimum, the plan must include the following items:
    a. **Project schedule:** Include the proposed shifts, time, and manpower (include number of employees per shift).
    b. **Detailed Work Plan:**
        (1) Protective Equipment: Specifying protective equipment (respiratory and body protection)
        (2) Layout and Location on a drawing for each phase of work:
            (a) Decontamination: Decontamination areas
            (b) Work Area: work area location, waste out area, location of equipment (staging area), location of negative air machines.
            (c) Waste Bin: Location of waste bins
        (3) Document for each phase of work:
            (a) Containment: Containment construction and methods
            (b) Disposal: Disposal plan to include transporter and landfill name
            (c) Removal Methods: Removal methods to prohibit visible emissions. Specific techniques/procedures for each material to be removed.
            (d) Air monitoring firm/lab: For conducting analysis of personnel samples.

(e) Levels of Respiratory Protection: Provide levels of respiratory protection for each type of removal (e.g., floor tile, drywall, etc.).

(4) Equipment: Equipment assigned to the project.

(5) Negative Air Machines: Number of negative air machines, in use at any one time. Number of back-up negative air machines for this phase.

c. **Specific Removal Methods:** In compliance with local, state and federal requirements for the abatement procedures.

d. **Contacts:** Point of contact for questions.

e. **Security/Fire Watch Plan:** Names, qualifications, etc. (if applicable)

SECTION 02092 HM

LBP, LEAD CONTAINING MATERIALS REMOVAL
(Abrasive, Ceramic Tile)

PART 1 - GENERAL

1.1 SCOPE:

This Specification covers the abatement of materials containing lead-based paint as described in Section 01010 HM, Scope of Work.

1.2 DESCRIPTION OF WORK:

A. **General:** The Work specified herein shall be the removal of lead-containing materials and lead dust environments by persons knowledgeable, qualified, and trained in the removal, treatment, handling, and disposal of lead-based paint and lead containing materials, and the subsequent cleaning of the affected environment, and who comply with Federal, State, and Local regulations and guidelines which mandate work practices, and who are capable of performing the Work of this Contract.

B. **Contract Fulfillment:** The Contractor shall supply all labor, materials, equipment, services, insurance, and incidentals which are necessary or required to perform the Work in accordance with applicable governmental regulations and guidelines and these Specifications.

1.3 TERMINOLOGY:

The following terms used in these Specifications are defined as listed below:

A. **Abatement:** Any measure designed to permanently eliminate lead-based paint hazards in accordance with standard established by EPA Administrator pursuant to Title IV of the Toxic Substances Control Act (TSCA).

B. **Abatement Area:** The exterior of the building or an area isolated from the building interior by containment.

C. **Accessible Surface:** Any surface, which is below 5 feet in height from the floor or ground or is exposed in such a way that a child could come in contact with the surface.

D. **Access Doorway:** A device to allow ingress and egress from one room or area to another while permitting minimal air movement between the rooms, typically constructed by placing two or three overlapping sheets of plastic over an existing or temporarily framed doorway, securing each along the top of the doorway, securing the vertical edge of one sheet along one vertical side of the doorway, and securing the vertical edge of the other sheet along the opposite vertical side of the doorway; or by using a rigid gasketed door and HEPA filter vents.

E. **Action Level:** An exposure of airborne concentrations of lead dust particulates in excess of thirty micrograms per cubic meter (30 $\mu g/m^3$) of air calculated as an 8 hour time weighted average (TWA).

F. **Air Filtration Equipment:** A portable local filtration system equipped with HEPA filtration and capable of maintaining a constant, low velocity flow to filter and trap contamination out of the air within the work area and then circulate or exhaust the filtered air to uncontaminated areas. This equipment is also used to establish a reduced pressure within the work area.

G. **Air Monitoring:** The process of measuring the lead content of a specific volume of air in a stated period of time.

H. **Air Sampling Professional:** The professional contracted or employed to supervise air monitoring and analysis schemes. This individual is also responsible for recognition of technical deficiencies in Worker protection equipment and procedures during both planning and on-site phases of an abatement project. This individual shall be certified in the comprehensive practice of air sampling for lead by Department of Health Services (DHS) as a Lead Project Monitor or Lead Supervisor.

I. **Air Lock:** A system for permitting ingress and egress with minimum air movement between a contaminated area and an uncontaminated area, consisting of dual or triple curtained doorways or rigid gasketed doors separated by a dead air space of four feet.

J. **Authorized Person or Visitor:** The building owners, his or her authorized representative, or any representative of a regulatory or other agency having jurisdiction over the Project.

K. **Biological Monitoring:** The analysis of a person's blood to determine the level of lead contamination in the body. Biological monitoring for lead hazard reduction work includes blood sampling and analysis for lead and zinc protoporphyrin levels.

L. **Certified Industrial Hygienist:** A person certified by American Board of Industrial Hygienist and who has at least four years experience and a graduate degree or five years experience; and who has passed a two-day examination offered by the board (see also industrial hygienist).

M. **Clean Room:** An uncontaminated area or room which is a part of the Work decontamination facility with provisions for storage of worker's street clothes and protective equipment.

N. **Clearance Testing:** Post abatement procedure as required by DHS. A clearance inspection must be conducted after abatement is completed. Only a DHS certified lead inspector/assessor or a Project Monitor may conduct a clearance inspection.

O. **Code Enforcement Agency:** The State Lead Poisoning Prevention Program or its agent, or the local board of health or other agency responsible for enforcing the State Sanitary Code or Sections thereof.

P. **Commissioner:** The commissioner of Public Health.

Q. **Common Area**: A room or area that is accessible to more than one tenant in a building (e.g., common hallways, stairwells, laundry rooms).

R. **Containment:** A process for protecting other workers, residents, and the environment by isolating areas from exposures to lead dust and debris created during abatement in a work area.

S. **Curtained Doorway:** A device to allow ingress and egress from one room to another while permitting minimal air movement between the rooms, typically constructed by placing two overlapping sheets of plastic over an existing or temporarily framed doorway, securing each along the top of the doorway, securing the vertical edge of one sheet along one vertical side of the doorway, and securing the vertical edge of the other sheet along the opposite vertical side of the doorway (referred to as Z-fold design).

T. **Decontamination Facility:** A series of connected rooms, with curtained doorways between any two adjacent rooms for the decontamination of workers and of materials and equipment. A decontamination enclosure system always contains at least one airlock.

U. **Defective surface:** Peeling, flaking, chalking, scaling, or chipping paint; or, paint over crumbling, cracking, or falling plaster, or plaster with holes in it; paint over a defective or deteriorating substrate; paint that is separating from the substrate; and paint that is damaged in any manner such that a child could be exposed to the paint from the damaged area.

V. **Employee:** Any person employed or hired by an employer in any lawful employment.

W. **Employer:** Any person, firm, corporation, partnership, association, or other entity engaged in a business or providing services, including the State and any of its political subdivisions, or any person acting in the direct interest of any of the foregoing in relation to any employee or place of employment.

X. **Encapsulant (sealant):** A liquid material which can be applied to lead containing material and which controls the possible release of lead from the material either by creating a membrane over the surface (bridging encapsulant) or by penetrating into the material and binding its components together (penetrating encapsulant).

Y. **Encapsulation:** Procedures necessary to apply an encapsulant to lead containing building materials to control the possible release of lead dust particulates or entrained material into the ambient air.

Z. **Enclosure:** Procedures necessary to enclose completely lead containing material behind airtight, impermeable, permanent barriers.

AA. **Entity:** Any person, partnership, firm, association, corporation, sole proprietorship, or any other business concern, state or local government agency or political subdivision or authority thereof, or any religious, social, or union organization, whether operated for profit or otherwise.

BB. **Equipment Room:** A contaminated area or room, which is part of the Worker decontamination enclosure with provisions for storage of contaminated clothing and equipment.

CC. **Equipment Decontamination Facility:** That portion of a decontamination facility designed for controlled transfer of materials and equipment, typically consisting of a washroom and a holding area.

DD. **Equipment Room:** A contaminated area or room which is part of the worker decontamination facility with provisions for storage of contaminated clothing and equipment.

EE. **Fixed Object:** A unit of equipment or furniture in the Work area which cannot be removed from the Work area.

FF. **General Trades Contractor:** Shall refer to the contractor responsible for coordination of all filed sub-bids and general construction.

GG. **Hazardous Level of Lead for Waste Disposal:** 5.0 parts per million (ppm) as defined by RCRA Toxicity Characteristic Leachate Procedure (TLCP) or other requirements set by local or state authorities.

HH. **High Phosphate Detergent:** Detergent that contains at least five percent (5%) tri-sodium phosphate (TSP) or other equally effective cleaning agent.

II. **HEPA Filter:** A high efficiency particulate air (HEPA) filter capable of trapping and retaining 99.97 percent of particles greater than 0.3 micrometers in mass median aerodynamic equivalent diameter.

JJ. **HEPA Vacuum Equipment:** Vacuuming equipment with a HEPA filter system.

KK. **Holding Area:** A chamber in the equipment decontamination facility located between the washroom and an uncontaminated area. The holding area comprises an airlock.

LL. **Intact Surface:** A defect-free surface with no loose, peeling, chipping, or flaking paint. Painted surfaces must be free from crumbling, cracking, falling plaster, and must not have holes in them. Intact surfaces are not damaged in any way.

MM. **Log Book:** A notebook or other book containing essential project data and daily project information and a daily project diary. This book is kept on the Project site at all times.

NN. **Lead-based:** Refers to paints, glazes, and other surface coverings containing a toxic level of lead.

OO. **Lead-Containing:** Refers to Paints, glazes, and other surface covering containing a detectable level of lead.

PP. **Mini-Enclosure:** A method with limited applications for removing small amounts of lead-based paint material typical for small-scale, short duration type projects.

QQ. **Movable Object:** A unit of equipment or furniture in the Work area that can be removed from the Work area.

RR. **Negative Air Pressure Equipment:** A portable local exhaust system equipped with HEPA filtration and capable of maintaining a constant, low velocity air flow into contaminated areas from adjacent uncontaminated areas.

SS. **Paint Removal:** All herein specified procedures necessary to remove or strip lead-based paint from the surfaces of components and to dispose of these materials at an acceptable site. Removal may consist of off-site or on-site paint removal as specified.

TT. **Permissible Exposure Limit:** An airborne lead concentration of fifty micrograms per cubic meter of air (50 $\mu g/m^3$) or greater, averaged over an 8 hour period.

UU. **Personal Monitoring:** Sampling of lead fiber concentrations within the breathing zone of a lead Worker.

VV. **Plasticize:** To cover floor and walls with plastic sheeting as herein specified.

WW. **Qualified Abatement Subcontractor:** A sub-contractor capable of providing a properly trained and equipped work force for abatement work. All employees to perform abatement activities shall have successfully completed a minimum of 24 hours of training in the potential hazards of abating lead-based paint. Abatement contractors must possess the appropriate license or certification from the state or local government.

XX. **Removal:** A strategy of abatement, which entails the removal of components, such as windows, doors, and trim that contain toxic levels of lead such that new components that are lead free may be installed.

YY. **Replacement:** A method of abatement that involves removing components that have lead-based paint surfaces and installing new components free of lead-based paint.

ZZ. **Shower Room:** A room or area in the worker decontamination unit facility with hot and cold or warm running water and suitably arranged for complete showering during decontamination. An alternate site away from the decontamination facility may be used as approved by the Owner's consultant.

AAA. **Subcontractor:** Shall refer to the Abatement Contractor.

BBB. **Surfactant:** A chemical wetting agent added to water to improve penetration.

CCC. **Toxic Characteristic Leachate Procedure (TCLP):** EPA required sample preparation for determine the hazard characteristic of a waste generated at a lead abatement site.

DDD. **Toxic Level of Lead in Surface Coatings:** 1.0 milligrams or more per square centimeter (mg/cm^2) (0.7 mg/cm^2 in Los Angeles County) by XRF methods or 5,000 $\mu g/g$ (0.5%) by laboratory testing, as defined in HUD Regulation and Lead-Base Paint Poisoning Prevention Act.

EEE. **Washroom:** An area between the Work area and the holding area in the equipment decontamination area.

FFF. **Wet Cleaning:** The process of eliminating lead-based paint contamination from building surfaces and objects by using cloths, mops, or other cleaning tools that have been dampened with water, and by afterwards disposing of these cleaning tools as lead contaminated waste.

GGG. **Wet Wall:** Shall refer to walls which contain plumbing fixtures and/or pipes, including both supply and sanitary lines.

HHH. **Wipe Sampling:** The process of collecting and analyzing lead material from a specific surface area to determine residual lead levels.

III. **Work Area:** Designated rooms, spaces, or areas of the Project in which lead-based paint abatement actions are to be undertaken or which may become contaminated as a result of such abatement actions. A contained work area is a work area that has been sealed, plasticized, and equipped with a decontamination enclosure system. A non-contained work area is an isolated or controlled-access work area that has not been plasticized nor equipped with a decontamination enclosure system.

JJJ. **Worker Decontamination Facility:** That portion of a decontamination facility designed for controlled passage of workers, and other personnel and authorized visitors, typically consisting of a clean room, a shower room, and an equipment room.

1.4 APPLICABLE DOCUMENTS:

The current issue of each document shall govern. Where conflict among requirements or with these Specifications exists, the more stringent requirements shall apply.

A. **Regulations:** Comply with all codes, regulations, and references applicable to lead abatement work include but are not limited to the following:

1. All Federal, State, Local, and South Coast Air Quality Management District regulations.

2. American National Standards Institute (ANSI) publications;

Z9.2-79	Fundamentals Governing the Design and Operation of Local Exhaust Systems
Z87.1-79	Occupational and Educational Eye and Face Protection
Z88.2-80	Practices for Respiratory Protection
Z89.1-81	Requirements for Protective Headgear for Industrial Workers
Z41-83	Personal Protection - Protective Footwear

Z88.6-84 Respiratory Protection Respiratory use Physical Qualifications for Personnel

3. American Society for Testing and Materials (ASTM) publications;

   D1 331-56 Surface and Interfacial Tensions of Solutions of Surface Active Agents.

4. Code of Federal Regulations (CFR);

   29 CFR 1910 General Industry Standard

   29 CFR 1910.1025 Lead Standard for General Industry

   29 CFR 1910.134 Respiratory Protection

   29 CFR 1910.1200 Hazard Communication

   29 CFR 1910.245 Specifications for Accident Prevention (Signs and Tags)

   29 CFR 1926 Construction Industry Standards

   29 CFR 1926.62 Construction Industry Lead Standard

5. Code of Federal Regulations (CFR) (cont'd);

   40 CFR Part 261 United States Environmental Protection Agency Regulations

   40 CFR Part 745 Residential Property Renovation

   24 CFR Parts 35-37 HUD Lead-Based Paint Regulations.

6. Compressed Gas Association, Inc.

   G-7.1 Commodity Specification for Air

7. National Fire Protection Association (NFPA)

   No. 70. National Electrical Code

8. UL 586-77 (R1 982) Test Performance of High Efficiency Particulate Air Filter Units (June 10, 1977, 5th Ed.; Rev. March 12, 1982)

9. National Institute for Occupation Safety and Health (NIOSH)

   N31, 3rd. Ed., Vol. 1, Manual of Analytical Methods, Method 7082.

10. Environmental Protection Agency Documents:

EPA 530-SW-85-007	Lead Waste Management Guidance, May 1985
EPA 560/5-85-024	Guidance for Controlling Lead-Base Paint in Buildings, June 1985
EPA 600/4-85-049	Measuring Airborne Lead Following and Abatement Action, November 1985
EPA 560 OPTS-86.001	A Guide to Respiratory Protection for the Lead Abatement Industry, April 1986

11. California Administrative Code (CAQ):

    Title 8, Article 2.5, Sections 341.6 - 341.14, Registration Lead-Related work

    Title 8, Section 5216, General Industry Safety Orders, Lead Regulations

    Title 8, Section 1532.1, Cal/OSHA Construction Safety Orders, Lead

    Title 8, Section 3203, Cal/OSHA Injury and Illness Prevention Program

    Title 17, Division 1, Chapter 8, Accreditation, Certification, and Work Practices for Lead-Based Paint and Lead Hazards

12. California Administrative Code (CAQ) (cont'd):

    Title 22, Division 4, Minimum Standards for Management of

    Chapter 30 Hazardous and Extremely Hazardous Waste

13. South Coast Air Quality Management District Regulations

    Rule 1420, Emissions Standard for Lead

14. Los Angeles County Code

    Title 11, Health and Safety, Chapter 11.28, Lead Hazards

    Title 12, Environmental Protection

1.5 SUBMITTALS AND NOTICES:

Prior to commencement of work and/or within the time-frames specified below:

A. **General:** Requirements are as set forth in the General Conditions and Supplementary Conditions for items required to be submitted under this section.

B. **Product data:** Shall include manufacturer's product data, specifications, samples and application instructions and other pertinent information as necessary.

C. **Alternatives:** Product substitution submittal shall be in accordance with the General Conditions and Supplementary Conditions.

D. **Procedure Plans and Shop Drawings:** Submit to the Owner's consultant Procedure Plans and Shop Drawings and ensure that they are in compliance with this Specification and applicable regulations. Shop Drawings will include: construction of decontamination enclosure systems and/or facilities; isolation of the Work areas; placement of negative air machines and their exhaust, emergency exits, and placements of fire extinguishers and first aid kits.

1. Personnel monitoring procedures in accordance with T8 CCR 1532.1

2. Phasing of abatement work indicating daily roster of workers for each phase.

3. Security system warning signs locations in accordance with 29 CFR 1910.245, and T8 CCR 1532.1.

4. Detailed plans for decontamination facilities, toilets, and systems providing inter-room and work area to outside communication showing connections to existing building.

5. Standard procedures for protecting workers, visitors, and employees and protection of spaces outside work area from contamination.

6. Engineering systems exposure control indicating number, location, and capacity of supply and exhaust systems, the expected direction of flow, and the range of expected negative air pressure in each area.

E. **Qualifications:** Within 10 days from Notice to Proceed, submit the following documents:

1. **License:** Submit copy of current contractor license from the California Contractors State License Board.

2. **Personnel Training-Superintendent and Foreman:** Submit copy of certificates of completion from a training course in lead abatement project supervision offered by a California accredited educational institution, and a copy of certification from California Department of Public Health (CDPH) as a lead supervisor. Copies of these documents shall be maintained in the Project Logbook. Substitutions may be made by written notice to Owner's consultant.

3. **Personnel Training-Workers:** Submit copy of certificates of completion from a training course in lead abatement project supervision offered by a California accredited educational institution, and a copy of certification from California Department of Public Health (CDPH) as a lead worker. Copies of these documents shall be maintained in the Project Logbook. Substitutions may be made by written notice to Owner's consultant.

4. **Personal Protection and Exposure Understanding:** Submit documentation to the Owner's consultant indicating that each employee has had instruction on the

hazards of lead exposure, on use and fitting of respirator, on protective dress, on use of showers, on entry and exit from work areas, and on all aspects of work procedures and protective measures and understands this instruction.

5. **Respirators:** Submit a written standard operating procedure governing selection, fit-testing, and use of respirators in accordance with 29 CFR 1910, Subpart 1, 29 CFR 1926.1101, CGAI Standard G7.1, ANSI Z88.2, and Z88.6. Also submit manufacturer's certification that the respirators to be used in this project comply with these regulatory requirements.

6. **Medical Examination:** Submit proof that personnel who will be entering contaminated areas have had medical examinations, and furnish the results of said exam to Owner's consultant. Comply with 29 CFR 1910.20 for access to employee exposure and medical records.

    a. **Exam and History:** Before exposure to lead, provide each employee with a comprehensive medical exam meeting the general definition outlined in California Administration Code Title 8, CCR. No employee shall be allowed to enter the Work Area without having first provided a copy of his or her Medical History to the Owner's Representative.

    b. **Employee Roster:** Submit an employee roster to Owner's consultant for each Work shift and confirm in writing within 24 hours of commencement of shift. The roster will consist of a list of employees who have received training and medical examinations per paragraphs Part 1.5, E.2, E.3, E.5, and E.6 of this section. A copy of this list is to be maintained in the Project Logbook.

F. **Notifications, Permits, Communications and Postings.**

1. **Submit copies of notifications to all appropriate Government agencies, including the following:**

    a. CAL-OSHA (310) 949-7827 Notification shall be in accordance with the Section 341.9 of Title 8 of California Administrative Code.

    b. California Department of Public Health, Childhood Lead Poisoning Prevention Branch (if applicable - 5 days prior to work).

    c. Copies of Government agency correspondence shall be included in the submittals.

    d. Where local police and fire departments have jurisdiction, secure approval of the proposed security and safety plans for the work prior to submittal to Owner's Representative. Contact both departments for the requirements of the approval process.

2. **Proof of Permits, Site Requirements, and Disposal of Waste:** Submit proof satisfactory to the Owner's consultant that all required testing, permits, site location, and arrangements for transport and disposal of lead-coated or contaminated materials, supplies, and the like have been obtained.

3. **Safety Compliance:** In addition to detailed requirements of this Specification, comply with laws, ordinances, rules, and regulations of federal, state, regional, local authorities, and of Owners regarding handling, storing, transporting, and disposing of lead waste materials. Comply with applicable requirements of the current issue of 29 CFR 1910. 29 CFR 1926.62, and 40 CFR 261, 40 CIFR. Parts 35, 36, 37, and CAC Section 5208. Submit matters of interpretation of standards to the appropriate administrative agency for resolution before starting Work. Where requirements of this Specification and reference documents vary, the most stringent requirement shall apply.

4. **Availability of Regulatory References:** Contractor shall have at least one copy each of 29 CFR 1910; 29 CFR 1910.134; 29 CFR 1926; 40 CFR Part 261; and CAC, Title 8, Section 5208, at his or her office and also at the job site.

5. **Posting of Caution Signs:** Before the commencement of any Work at the site, post bilingual EPA and CAL-OSHA caution signs in and around the Work Area to comply with EPA and OSHA regulations.

6. **Submit Training and Certifications:** All lead workers assigned to this project must be accredited as a Lead Worker under the California Department of Public Health (CDPH). At least one employee on each shift shall be currently accredited as a Supervisor and shall have successfully completed in the last 12 months a course of instruction meeting the requirement for "Competent Person." At least one employee on each shift shall be currently accredited in accordance to the Environmental Protection Agency's (EPA) Renovation, Repair, and Painting (RRP) regulation. In addition, Hazardous Material Contractor must also be certified as a firm in accordance with the EPA's RRP regulation

7. **Project Logbook Submittals:** Submit front-end documents of Project Logbook. These documents will include copies of the Contractor's Respiratory Protection Program, HUD and OSHA documents, worker decontamination procedures, equipment decontamination procedures, authorized personnel list, format of daily report sheets, test reports on waste materials, and format of waste manifests. The completed daily reports and waste manifests shall be submitted along with pay requests for completed work. Copies of these front-end documents shall be maintained at the site during the lead removal phase of the Project.

    a. The Superintendent is required to keep the Project Logbook up to date, ensure that all work criteria is followed in the proper sequence, and to fill out the enclosed check list to document the progression of the job. A separate checklist will be required for each individually prepped work area.

8. **Property Condition Assessment:** Owner, Architect/Engineer or Owner's consultant, and Contractor must agree in writing on building and fixture condition prior to commencement of Work. The Contractor shall submit an inventory of all items removed from the Work area and an inventory of all items remaining in the Work area.

9. **Informing Other Trades:** The lead abatement contractor must inform other employers on site of the nature of the Contractor's work with lead-based paint and

the existence of and requirements pertaining to regulated areas. Such notification shall be coordinated with, and approved by, the Owner.

10. **Pressure Strip Recordings:** At the termination of the project, submit copies of all pressure strip chart recordings.

G. **Field Air Sampling:**

Personal monitoring and other monitoring which is required by law or considered necessary by the Contractor for Worker protection shall be the responsibility of the Contractor and performed by Contractor's Air Sampling Professional.

H. **Certifications:**

1. **Equipment Certification:** Submit manufacturer's certification that vacuums, negative air pressure equipment filters, and other local exhaust ventilation equipment conform to ANSI Z9.2, as well as all Federal, State, Local, and SCAQMD regulations (permit to construct).

2. **Rental Equipment:** When rental equipment is to be used in removal areas or to transport waste materials, a copy of the written notification provided to the rental company informing them of the nature of use of the rented equipment shall be submitted to the Owner's representative or Owner and signed by the rental company.

1.6 PERSONAL PROTECTION AND SAFETY:

A. **General:** The Contractor alone shall be responsible for the safety, efficiency, and adequacy of his or her plant, appliances, methods, and for any damages which may result from his or her operations, improper construction practices, or maintenance. He or she shall erect and properly maintain at all times as required by the conditions and progress of the Work, proper safeguards for the protection of workmen and the public and shall post warning signs around the job site.

B. **Personal Protective Equipment:**

1. Provide workers and authorized visitors with sufficient set of protective full body impervious protective clothing. Personal Protective Equipment shall comply with the requirements of 29 CFR 1910, Subpart I., and Title 8 CCR Section 1532.1.

2. Work clothes shall consist of fire retarding, disposable, full-body coveralls, head covers, boots, rubber gloves, and steeled-toe boots or equivalent in accordance with 29 CFR 1926.134, and ANSI Z41. Sleeves at wrists and cuffs at ankles shall be secure.

3. Provide eye protection and hardhats as required by applicable safety regulations and shall conform to ANSI 87.1 and 89.1.

C. **Respiratory Protection Requirements:**

1. Disposable (single use) respirators are not to be worn for protection against lead.

2. **Providing of Equipment:** Provide all workers, foremen, superintendents, authorized visitors, and inspectors personally issued and marked respiratory equipment approved by NIOSH. When respirators with disposable filters are employed, provide sufficient filters for replacement as recommended by manufacturers or this specification. Selection of respirators shall be made according to the guidance of 29 CFR 1910.134; Title 8 CCR Section 1532.1; ANSI Z88.2; CGAI G7.1; EPA 560 OPTS-86.001; and Table I of this section. The Contractor shall provide masks, new in the box, in all sizes produced by the respirator manufacturer (one each). These masks shall be provided for the exclusive use of the Owner's representatives and shall be available at all times.

3. **Approved Respirators:** Contractor will ensure that all respirators used shall be selected from those approved by National Institute of Occupational Safety and Health (NIOSH) for use in atmospheres containing lead, solvents, removers, and against other toxic materials which may be used during the project.

4. **Powered Air-Purifying Respirators (PAPR) usage:** Full containment work activities associated with the abatement of materials coated with lead-based paint where lead containing dust particulates are expected (i.e., sand blasting) shall be conducted while wearing, at a minimum, a full facepiece, powered air-purifying respirator equipped with HEPA filters during the following tasks or under the following conditions:

    a. During removal of lead-containing materials.

    b. During all cleanup and wipe-down of area.

    c. During final wipe down of work space.

    d. At any time that air monitoring levels indicate that lead concentrations are at least 500 $\mu g/m^3$ or greater.

    e. Any situation where gross contamination has occurred because of a tear or rupture in the containment and air sampling indicates airborne lead levels have exceeded 500 $\mu g/m^3$.

5. **1/2 Face Respirator Usage:** For the following tasks or conditions a 1/2 mask air-purifying respirators equipped with high efficiency filters may be used:

    a. Provided maximum airborne lead concentration outside the respirator is at or below 250 $\mu g/m^3$.

    b. During intact component removal, paint film stabilization (loose and flaky paint) work.

    c. Pre-construction sealing of openings and penetrations to the work areas with plastic sheeting.

    d. Decontamination of removable items.

e. Loading lead-containing drums on truck for transportation and unloading bags at approved landfill.

Rest of page intentionally blank, Table 1 follows on next page.

Table 1. Respiratory Protection for Lead Aerosols

Airborne concentration of lead or condition of use	Required Respirator
Not in excess of 500 μg/m³	*1/2 mask air purifying respirator with high efficiency filters. 2,3 *1/2 mask supplied air respirator operated in demand (negative pressure) mode.
Not in excess of 1,250 μg/m³	* Loose fitting hood or helmet powered air-purifying respirator with high efficiency filters. *Hood or helmet supplied air respirator operated in a continuous - flow mode - e.g., type CE abrasive blasting respirator operated in a continuous - flow mode.
Not in excess of 2,500 μg/m³	* Full facepiece air purifying respirator with high efficiency filters. *Tight fitting powered air-purifying respirator with high efficiency filters. *Full facepiece supplied air respirator operated in demand mode. *Full facepiece self-contained breathing apparatus (SCBA) operated in demand mode.
Not in excess of 50,000 μg/m³	*1/2 mask supplied air respirator operated in pressure demand or other positive - pressure mode
Not in excess of 100,000ug/m³	*Full facepiece supplied air respirator operated in pressure demand or other positive-pressure mode - e.g., type CE abrasive blasting respirators operated in a positive - pressure mode.
Greater than 100,000 μg/m³ unknown concentration, or fire fighting.	*Full facepiece SCBA operated in pressure demand or other positive - pressure mode.

***** Greater respiratory protection is always acceptable regardless of lead concentrations.

6. **Type "C" Respirator Usage:** When Type "C" respirators are not required according to 29 CFR 1926.134, Title 8 CCR, Section 1532.1, or this specification, (whichever is more stringent), provide sufficient quantity of filters jointly approved by NIOSH for use in **lead and other** environments so that workers can change filters as required by manufacturer during the workday. Filters shall not be used any longer than one workday. Respirator filters shall be stored at job site in clean room and shall be totally protected from exposure to lead and other hazardous materials prior to their use.

7. **Air Supply Compressors:** Compressors shall meet the requirements of 29 CFR 1910.134 and the following:

    a. Periodic inspection of the carbon monoxide monitor shall be evidenced.

    b. Documentation of adequacy of compressed air system/respiratory protection system shall be retained on site. Documentation shall include a list of compatible components with the maximum number and type of respirators that may be used with the system.

    c. The full facepiece, type "C" supplied-air respirator system shall be fully approved by appropriate regulatory agencies. The compressor shall be specifically for breathing air and have alarms to indicate compressor failure, and overheating. Compressor(s) shall have in-line air-purifying sorbent beds and filters to assure breathing air quality (Grade "D" or better for oil lubricated compressors; Grade "H" or better for electric compressors). The air supply system shall have safeguards to allow for sufficient capacity to allow workers to escape if the air system fails. If an oil-lubricated compressor is used, it shall have a high-temperature or carbon monoxide alarm, or both. If only a high-temperature alarm is used, a carbon monoxide converter shall be used.

    d. The compressor intake shall be designed so as to avoid entry of contaminated air into the system either from the compressor exhaust or other sources of potential contamination. Periodic testing of compressed air shall ensure that systems provide air of sufficient quality.

    e. A pressure-indicating gauge shall be placed at the point of connection (distribution point) where the respirator supply hose (which is a part of the approved facemask/hose system) is attached to the air filtration system or any supply manifold which is located between the mask/hose apparatus and the compressor/filter system. The pressure gauge shall be capable of measuring pressure levels that are consistent with those specified by the respirator operating specifications.

    f. The correct pressure level shall be verified at each distribution point each time the system is engaged. The air supply system will be operated only when operating specifications are maintained.

8. **Fit Testing:** Air respirators shall be fit-tested utilizing isoamyl acetate at the beginning of each project or a minimum of every 12 months as described in Appendix C, 29 CFR 1926.58. Either Isoamyl Acetate Protocol or other similar regulatory protocol may be used.

D. **Bilingual Worker protection procedures (Posted in both English and Spanish):** Adequate shower facilities shall be provided by the Contractor. An employee leaving the Work area shall follow all decontamination procedures necessary or as described herein.

1. **Posted Procedures:** Provide and post, in the Equipment Room and the Clean Room, the decontamination and work procedures to be followed by workers and authorized visitors as described in these Specifications.

2. **Entering the Work Area:** Each worker and authorized visitor shall, upon entering the job site: put on a respirator and clean protective clothing before entering the Equipment Room or the Work area. Clothing that is appropriate for weather and temperature conditions shall be worn under the protective clothing.

3. **Personnel Exiting the Work Area:**

a. Ensure that personnel do not leave work areas through the equipment decontamination enclosure.

b. All workers and authorized visitors shall, each time they leave the Work area; remove gross contamination from clothing before leaving the Work area using a HEPA vacuum; proceed to the Equipment Room and remove all clothing except respirators by carefully rolling down the garment to reduce exposure to dust; clean the outside of the respirator with soap and water while showering; remove the respirator; and thoroughly shampoo and wash themselves

c. Following showering and drying off, each Worker shall proceed directly to the clean change room and dress in clean clothes at the end of each day's Work, or before eating, smoking, or drinking. Before re-entering the Work Area from the clean-change room, each Worker and authorized visitor shall put on a clean respirator and shall dress in clean protective clothing.

d. Before re-entering the Work area from the Clean Change Room, each worker and authorized visitor shall put on a clean respirator and shall dress in clean protective clothing.

e. All workers and authorized visitors shall, at the end of the work day; place disposable clothing in the abatement waste; clean protective gear, including respirators, according to standard procedures; wash hands and face again; proceed to the shower facilities, being certain to wash hair.

f. Workers shall not eat, drink, smoke, or chew gum or tobacco while in the Work area.

g. Workers shall be fully protected with respirators and protective clothing from the time of first disturbance of lead-coated or contaminated materials prior to commencing actual lead abatement and until final cleanup is completed.

4. **Equipment removal procedures:** Clean surfaces of contaminated containers and equipment thoroughly by wet sponging or wiping before moving such items into the equipment decontamination enclosure system washroom or through the shower for final cleaning and removal to uncontaminated areas.

   a. Contaminated work footwear shall be stored in the Equipment Room when not in use in the Work area. Upon completion of lead abatement, dispose of footwear as contaminated waste.

   b. Workers removing waste containers from the equipment decontamination enclosure shall enter the holding area from outside wearing a respirator and be dressed in clean disposable coveralls. No worker shall use this system as a means to leave or enter the washroom or the Work area.

5. **Safety Issues:**

   a. During the removal operations the Contractor may be placing his workers in a potentially hazardous electrical environment. Care and special consideration should be exercised by the Contractor to avoid electrical shock to his or her employees. The requirements as set forth in the latest edition of the National Electrical Code shall be adhered to at all times. Particular emphasis shall be placed on the requirements listed in Article 210-BRANCH CIRCUITS, Article 225-OUTSIDE BRANCH CIRCUITS AND FEEDERS, Article 250-GROUNDING, Article 300-WIRING METHODS, and Article 305-TEMPORARY WIRING, whenever and wherever the existing electrical power service shall be de-energized and temporary electrical power utilized.

   b. During summer work activities the Work area environment may be very hot and humid. The Contractor shall take precautions to protect his or her workers from the hostile environment as well as the lead material. First-aid items such as stretchers, water, and cold packs should be kept adjacent to the Work area exits, thus allowing any personnel requiring emergency treatment egress from the Work area with minimum contamination to the clean environment. No worker shall be allowed to reach through the plastic or air lock door to get water or firstaid supplies during break periods inside the Work area. Breaks, lunch or worker rest periods should be held outside the Work area. All decontamination procedures shall be followed prior to exiting the Work area except in extreme emergencies.

   c. During cold weather periods the workers shall be provided with adequate protection from the environment to not cause harm to the workers.

   d. If evacuation of the Work area is required by contaminated personnel due to an emergency, all work efforts shall stop, and all forces shall be directed at minimizing the area contamination, cleanup operations and first-aid procedures. These activities shall be noted in the daily logbook.

e. During work activities requiring decontamination procedures, the Contractor shall provide a means of communication for the workers inside the Work area without requiring personnel to enter or leave the Work area. This method of communications shall be a two-way radio, localized wire-connected telephone, or similar system. This communication system shall remain intact until the final containment plastic is removed. Then all equipment shall be wiped down, HEPA vacuumed or disposed of as lead-contaminated material.

E. **Posting of Warning Signs:**

1. Post two safety warning signs which follow the "Sample Format Warning Sign" shown below:

Sample Format Warning Sign
Minimum Size - 24" x 36"
Material - Aluminum or Fiberglass
Script:

DANGER

LEAD WORK AREA

MAY DAMAGE FERTILITY OR THE UNBORN CHILD

CAUSES DAMAGE TO THE CENTRAL NERVOUS SYSTEM

DO NOT EAT, DRINK OR SMOKE IN THIS AREA

F. **Emergency Precautions and Procedures:**

1. Establish emergency and fire exits from the Work Area. Emergency exits shall be equipped with 2 full sets of protective clothing and respirators.

2. Local medical emergency personnel, both ambulance crews and hospital emergency room staff, shall be notified prior to commencement of abatement operations as to the possibility of having to handle contaminated or injured Workers, and shall be advised on safe decontamination.

3. Contractor shall be prepared to administer first aid to injured personnel after decontamination. Seriously injured personnel shall be treated immediately or evacuated without delay for decontamination. When an injury occurs, the Contractor shall stop Work and implement fiber reduction techniques (e.g., water spraying) until the injured person has been removed from the Work Area.

4. Before starting actual removal of lead material(s), local police and fire departments shall be notified as to the danger of entering the Work Area. The Contractor shall make every effort to help these agencies form plans of action should their personnel need to enter the contaminated area.

1.7 SUPERINTENDENT, FOREMAN, CRAFTSMAN:

The Contractor shall have a job superintendent present at all times while work on this Contract is in progress.

The Project Superintendent (Competent person) shall be thoroughly familiar and experienced with lead removal and related work and shall be familiar with and shall enforce the use of all safety procedures and equipment. He or she shall be knowledgeable of all HUD, EPA, OSHA (Federal and State), and NIOSH requirements and guidelines. He or she shall be trained and certified by CDPH in the proper use of all personal protection and safety equipment including, but not limited to, air purification and respiratory systems.

In addition to the Superintendent, the Contractor shall furnish one or more foremen who are familiar and experienced with lead removal and its related work, safety procedures, and equipment. The Forman shall be the Competent person when the Superintendent is not present.

A. It shall be a requirement of this Contract that the superintendent and/or one or more of the Contractor's foremen be in the Work area at all times while work is in progress.

B. It is the intent of these Specifications that all phases of the Work shall be executed by skilled craftsmen experienced or receiving training by experienced personnel in each respective trade.

C. All superintendents and foremen shall have been trained by attending an appropriate HUD approved Lead-Based Paint Supervisor training course and satisfactorily passing a California State Department of Public Health Services sanctioned examination for the above stated training program. Only formal training programs will be accepted.

D. Workers shall, at a minimum, receive the appropriate classroom training program covering the topics listed in the HUD guidelines and the OSHA standard and shall have an additional 8 hours of hands-on training prior to beginning abatement work. Training will be through an appropriate HUD approved Lead-Based Paint work training course.

E. The Competent person on-site must be able to clearly communicate in a manner so that the Owner’s Consultant and Owner can clearly understand.

PART 2 - MATERIAL AND EQUIPMENT

2.1 MATERIALS:

A. **Packaging:** Deliver all materials in the original packages, container, or bundles bearing the name of the manufacturer and the brand name.

B. **Storage:** Store all materials subject to damage off the ground, away from wet or damp surfaces, and under cover sufficient to prevent damage or contamination. Damaged or deteriorating materials shall not be used and shall be removed from the

premises. Material that becomes contaminated with lead shall be disposed of in accordance with the applicable regulations.

C. **Chemical removers:** Shall not contain methylene chloride. Chemical removers shall be compatible with and not harm the substrate they are applied to. Chemical removers used on masonry surfaces shall contain anti-stain formulation that inhibits the discoloration of stone, granite, brick, and other masonry construction. Chemical removers used on interior surfaces shall not raise or discolor the surface being abated.

D. **Chemical stripping agent neutralizers:** May be used on exterior surfaces only. Neutralizers shall be compatible with and not harm the substrate to which they are applied. Neutralizers shall be compatible with the stripping agent that has been applied to the surface substrate.

E. **Plastic:** (Fire retardant polyethylene) Sheet, of 6-mil thickness or greater as specified in sizes to minimize the frequency of joints.

F. **Tape:** Capable of sealing joints of adjacent sheets of polyethylene and for attachment of polyethylene sheet to finished or unfinished surfaces of dissimilar materials and capable of adhering under both dry and wet conditions. Use tape with tough backing that does not leave residue on the adhering surface.

G. **Phosphate Wash (TSP Wash):** Shall consist of a solution containing at least one ounce of 5 percent trisodium phosphate (TSP) to each gallon of water.

H. **Impermeable containers:** Suitable to receive and retain any lead-coated or contaminated materials until disposal at an approved site, labeled in accordance with OSHA Regulation 29 CFR 1910.1025 and DOT 49 CFR 171-177. Containers must be both air and watertight and must be resistant to damage and rupture. Plastic bags shall be a minimum of 6-mil thick.

I. **Warning labels and signs**: As required by 29 CFR 1926, 29 CFR 1910.245, and Title 8 CCR, Section 1532.1.

J. **For bridging encapsulant use:**

1. Encapsulant to be specified and approved by Owner's representative

K. **Encapsulants/primers:**

1. Encapsulant to be specified and approved by Owner's representative

L. **Surfactants:** Or wetting agent, for amending water will be 50 percent polyoxyethylene ether and 50 percent polyoxyethylene ester, or equivalent, at a concentration of one ounce per 5 gallons of water.

M. **Other materials:** Provide all other materials, such as lumber, nails, and hardware that may be required to construct and dismantle the decontamination area and the barriers that isolate the Work area.

2.2 TOOLS AND EQUIPMENT:

A. **Tools:** Provide suitable tools for lead-based paint removal.

B. **Air filtration equipment:** High efficiency particulate air (HEPA) filtration systems shall be equipped with filtration equipment in compliance with ANSI Z9.2-79, local exhaust ventilation or equal. No air movement system or air filtering equipment shall discharge unfiltered air outside the Work area. If volatile chemicals are used, use manufacturer's guidelines and provide appropriate filters for solvent vapor or other organic based material use.

PART 3 - EXECUTION

3.1 PREPARATION (Interior Areas):

A. **Separation of work areas from occupied areas as directed in the Scope of Work:**

1. **Reference:** Contractor will use the applicable procedures as outlined in Section 01010 HM or, if none, use those contained within. Where conflict among requirements (e.g., other concurrent work) or with these Specifications exists, the more stringent requirements shall apply.

2. **For areas requiring constructed barrier walls:** Separate parts of the building required to remain in use (as shown on Plans) from parts of the building that will undergo lead-containing or lead-based paint removal by means of airtight barriers, constructed as follows:

   a. Build suitable wood or metal framing and apply 3/8 inch minimum thickness sheathing on work side only, unless noted otherwise.

   b. Cover both sides of partition with double layer of plastic sheet with joints staggered and sealed with tape. Edges of partition at floor, walls, and ceiling shall be caulked airtight.

3. **Electrical Shut-down:** Shut down electric power which serves the Work area. Provide temporary power and lighting and ensure safe installation of temporary power sources and equipment per applicable electrical code requirements.

4. **HVAC Shut-down:** Shut down and isolate heating, cooling, and ventilating air systems to prevent contamination and fiber dispersal to other areas of the structure. Physically blank off, with light gage metal, all supply and return air ductwork which leads to and from an isolated work area when the air-handling unit serves areas other than within the isolated work area.

5. **Seal off openings:** Seal off all openings, including but not limited to windows, corridors, doorways, skylights, ducts, grills, diffusers, and any other penetrations of the Work areas, with plastic sheeting (minimum of 4-mils thick) sealed with tape.

B. **Preclean work area:**

1. **Moveable Objects:** Clean all moveable objects within the Work area using HEPA vacuum equipment and wet cleaning methods. Remove these objects from the Work area to a designated temporary storage location.

   Protection of and accounting for the stored materials is the sole responsibility of the Contractor.

2. **Fixed Objects:** Preclean fixed objects within the proposed work areas, using HEPA vacuum equipment and/or wet cleaning methods as appropriate, and enclose with minimum of 6-mil polyethylene sealed with tape.

3. **Vacuum and Wet Methods:** Preclean the proposed work areas using HEPA vacuum equipment or wet cleaning methods as appropriate. Do not use methods that raise dust, such as dry sweeping or vacuuming with equipment not equipped with HEPA filters.

C. **Prepare work area:**

1. **Reference:** Contractor will use the applicable procedures as outlined in Section 01010 HM or, if none, use those contained within. Where conflict among requirements (e.g. other concurrent work) or with these Specifications exists, the more stringent requirements shall apply.

2. **Non-Contaminated Objects:** Remove and clean objects, such as lights and other items not previously sealed off, that may interfere with lead removal. Use HEPA vacuum equipment and wet methods during fixture removal to reduce lead dispersal. Wrap in plastic and store for reinstallation upon completion of testing procedures.

3. **Protection of Fixed Objects:** Protect all fixtures, grills, lockers, and other non-removable equipment from water. Also, protect painted surfaces and flooring.

4. **Plasticization:** Cover non-impacted floor, walls and ceiling surfaces with plastic sheeting sealed with tape. Use a minimum of two layers of 6-mil plastic on floors and two layers of 4-mil plastic on walls and ceilings. Cover floors first so that plastic extends at least 12 inches up on walls, then cover walls with plastic sheeting to the floor level, thus overlapping the floor material by a minimum of 12 inches.

   a. All criticals (doors, vents, openings, wall penetrations, etc.) will be covered with 2 layers of 6-mil plastic and secured with duct tape to prevent leakage of air. If windows, doors, door frames, or other interior/exterior transitional items on which lead-based paint is to be removed, place 2 layers of 6-mil plastic just to the outside of the surface area to be removed. All exterior lead-based paint removal is to be performed according to Section 9912, Lead-Based Paint Removal (Exterior).

   b. The second layer of floor sheeting may be black or dark in color. If floor coverings are scheduled for removal, per Plans and/or Scope of Work, floor

plastic is not placed until after floor coverings are removed, which occurs during Lead Removal activities, paragraph 3.2.

c. All joints in the plastic sheeting shall have a minimum of 12 inches of overlap and shall be securely sealed with tape to prevent leakage of air and water.

5. **Emergency Exits:** Maintain emergency and fire exits from the Work areas, or establish alternative exits satisfactory to fire officials.

6. **Establish a reduced pressure in the Work area**

a. **Determine the Ventilation Requirements:**

(1) **General:** Provide fully operational negative pressure systems supplying a minimum of one air change every 15 minutes. Determine the volume in cubic feet of the work area by multiplying floor area by ceiling height. Determine total ventilation requirement in cubic feet per minute (cfm) for the work area by dividing this volume by the air change rate.

Ventilation Required (CFM) =Volume of work area (cu. ft.)/1 5 min.

(2) **Number of Units:** Determine number of units needed to achieve 15 minute change-rate by dividing the ventilation requirement (CFM) above by capacity of exhaust units(s) used. Capacity of a unit for purposes of this section is the capacity in cubic feet per minute with fully loaded filters (pressure differential which causes loaded filter warning light to come on) in the machines labeled operating characteristics.

$$\text{Number of Units Needed} = \frac{\text{Ventilation Requirement (CFM)}}{\text{Capacity of Unit with Loaded Filters (CFM)}}$$

Add one (1) additional unit as a backup in case of equipment failure or machine shutdown for filter changing.

(3) **Location of Exhaust Units:** Locate exhaust unit(s) so that makeup air enters work area primarily through decontamination facilities and traverses work area as much as possible. This may be accomplished by positioning the exhaust unit(s) at a maximum distance from the worker access opening or other makeup air sources.

Place end of unit, or its exhaust duct, through an opening in the plastic barrier or wall covering. The plastic around the unit or duct shall then be sealed with tape.

(4) **Venting or Exhaust:** Unless authorized in writing by the Project Coordinator, vent negative air exhaust to outside of building. Exhaust outlet shall be a minimum of ten feet above ground level.

(5) **Supplemental makeup air inlets:** Provide where required for proper air flow through the work space in location approved by the Project

Coordinator by making openings in the plastic sheeting that allow air from outside the building into the work area.

(6) **Makeup Air Inlets:** Locate auxiliary makeup air inlets as far as possible from the exhaust unit(s) (e.g., on an opposite wall), off the floor, and away from barriers that separate the work area from occupied clean areas. Cover with flaps to reseal automatically if the negative pressure system should shut down for any reason. Spray flap and around opening with spray adhesive so that flap seals if it closes.

b. **Use of the Negative Pressure System:**

(1) **General:** Each unit shall be serviced by a dedicated minimum 115V-20A circuit with overload device tied into an existing building electrical panel that has sufficient spare capacity to accommodate the load of all negative pressure units connected. Dedication of an existing circuit may be accomplished by shutting down existing loads on the circuit.

(2) **Testing the System:** Test negative pressure system before any lead-containing material is wetted or removed. After the work area has been prepared, the decontamination facility set up, and the exhaust unit(s) installed, start the unit(s) (one at a time). Demonstrate operation and testing of negative pressure system to Project Coordinator.

(3) **System Evaluation:** A demonstration of the negative pressure system to the Project Coordinator will include, but not be limited to, the following:

(a) Plastic barriers and sheeting move slightly in toward work area.

(b) Curtain of decontamination units move slightly in toward work area.

(c) There is a noticeable movement of air through the decontamination unit. Use smoke tube to demonstrate air movement from Clean Room to Shower Room, from Shower Room to Equipment Room, and from Equipment Room to Work Area.

(d) Use smoke tubes to determine a positive motion of air across all area in which work is to be performed.

(e) Use a differential pressure meter or manometer to demonstrate a pressure difference of at least 0.02 inches of water across every barrier separation the Work Area from the balance of the building or outside.

(f) Modify the negative pressure system as necessary to successfully demonstrate the above.

D. **Decontamination Facilities:**

1. **General:** Contractor will use the applicable procedures as outlined in Section 01010 HM or, if none, use those contained within. Where conflict among requirements (e.g., other concurrent work) or with these Specifications exists, the more stringent requirements shall apply.

2. **Construction Review:** Build suitable decontamination facilities described herein, as previously submitted for review, before start of construction.

3. **Air Locks and Access Doorways:** In all cases, access between contaminated and uncontaminated rooms or areas shall be through an air lock previously defined. Passage between any two rooms within the decontamination facility shall be through an access doorway.

4. **3-Stage Decontamination Enclosure:** Construct a worker decontamination enclosure system contiguous to the Work area consisting of three totally enclosed chambers to conform to standard Plans bound herein and as follows.

    a. A shower room with two access doorways, one to the equipment room and one to the clean room. Plastic, if used, on shower room and adjoining equipment and clean rooms shall be opaque.

    b. The shower room shall contain at least one shower with hot and cold or warm water. Careful attention shall be paid to the shower enclosure to ensure against leaking of any kind.

5. **Remote Decontamination Enclosures:** For remote decontamination systems (non-contiguous to the Work area) construction of the shower will conform to Section 02092 HM, Part 3.1, D1, above with the following modifications:

    a. The enclosure need not be attached to the Work area, but clean room and equipment rooms must be clearly marked at their respective entrances.

    b. A HEPA filtration machine must be attached to the equipment room and must be operational while the decontamination unit is in use.

6. **Equipment Decontamination Enclosures:** For an equipment decontamination enclosure facility, construct two totally enclosed chambers as follows:

    a. A washroom, constituting an air lock, with an access doorway to a designated area of the Work area and an access doorway to the holding area.

    b. A holding area, constituting an air lock, with an access doorway to the washroom and an access doorway to an uncontaminated area.

7. **Entry/Exit systems:** All decontamination systems or entry/exit system air locks will be constructed using Z-flap design incorporating 2 layers of 6-mil plastic with the flaps extending the full height and width of the entrance space.

E. **Maintenance of enclosure system:**

1. Ensure that barriers and plastic linings are effectively sealed and taped. Repair damaged barriers and remedy defects immediately upon discovery.

2. Visually inspect enclosures at the beginning of each work period.

3. Use smoke methods to test effectiveness of barriers when directed by Owner or representative of Owner.

F. **Lead removal work shall not commence until:**

1. Arrangements have been made for disposal of waste at an acceptable site.

2. Work areas and decontamination facility and parts of the building required to remain in use are effectively segregated.

3. Tools, equipment, and material waste receptors are on hand.

4. Arrangements have been made for building security.

5. All other preparatory steps have been taken and applicable notices posted and permits obtained.

6. Removal work will not begin until the Owner's consultant authorizes work to commence, in writing.

3.2 LEAD REMOVAL:

A. **General:** Prepare site per paragraph 3.1.

B. **References:** Contractor will use the applicable procedures as outlined in Section 01010 HM or, if none, use those contained within. Where conflict among requirements (e.g. other concurrent work) or with these Specifications exists, the more stringent requirements shall apply.

C. **Negative pressure system during abatement Operations:**

1. Start exhaust units before beginning work (before any lead-containing material is disturbed). After abatement work has begun, run units continuously to maintain a constant negative pressure until decontamination of the work area is complete. Do not turn off units at the end of the work shift or when abatement operations temporarily stop.

2. Start abatement work at a location farthest from the exhaust units and proceed toward them. If an electric power failure occurs, immediately stop all abatement work and do not resume until power is restored and exhaust units are in operation again.

3. At completion of abatement work, allow exhaust units to run, to remove airborne dust that may have been generated during abatement work and cleanup and to purge the work area with clean makeup air. The units may be required to run for a longer time after decontamination, if dry or only partially wetted lead material was encountered during any abatement work.

D. **Lead-Containing Materials Removal:**

1. Ensure that the material is thoroughly soaked with amended water prior to removal.

2. Ensure that the air is misted thoroughly during the removal process.

3. Remove materials intact as much as possible.

E. **Containerizing Waste:**

1. **Daily Containerizing**: During each day's work, the bulk lead material shall be bagged in 6-mil thick bags, before it dries. No lead material shall be allowed to lie on the floor overnight.

2. **Types of Containers:** Place the bagged material in sealed containers (hard sealable containers).

3. **Labels:** Place caution labels on containers in accordance with OSHA Regulation 29 CFR 1910.1025 and DOT 49 CFR 171-177 if not already preprinted on containers.

4. **Cleaning:** Clean external surfaces of containers thoroughly by wet sponging in the designated area. Move containers to washroom, wet clean each container thoroughly, and move to holding area pending removal to uncontaminated areas. If the holding area is outside containment it well be a locked and secured area with appropriate warning signage at entrance. If holding area is within containment ensure that area is secure and appropriate signage is maintained.

5. **Safety:** Ensure that containers are removed from the holding area by workers who have entered from uncontaminated areas dressed in clean coveralls.

F. **Post Removal Cleaning:** After completion of stripping work (chemical or abrasive), all surfaces from which lead-based paint or lead containing material has been removed shall be wet brushed and sponged or cleaned by an equivalent method to remove all visible material. During this work, the surfaces being cleaned shall be kept wet. At the Contractor's option, the layer of plastic exposed to the lead may be removed, leaving intact the final layer of plastic.

G. **Safety:** Ensure that workers do not enter from uncontaminated areas into the washroom or the Work area; ensure that contaminated workers do not exit the Work area through the equipment decontamination enclosure system.

3.3 CLEANUP AND CLEARANCE MONITORING:

Employ the following procedures in cleaning up the Work area:

A. **Wet Clean:** Wet-clean all surfaces and remove all visible accumulation of lead containing material from the Work area. Prepare the Work area for the initial visual inspection using a sequenced cleaning technique using HEPA vacuuming, a TSP washdown, and a second HEPA vacuuming.

B. **Initial Visual Inspection:** Once the Work area is clean of visible accumulations of lead material, the Owner's consultant will perform the visual inspection. The Contractor will continue the HEPA vacuuming and washdown process until the area is visible clean.

C. **Plastic Removal:** When the area is deemed clean by the Owner's consultant, remove plastic from all surfaces

D. **For surfaces to be stabilized perform the following:**

1. As directed by Owner's Representative, lead painted surfaces shall be sealed with a non-lead containing encapsulating primer after the surface is clean and dry. Apply encapsulant using airless spray equipment or suitable paint applicator where a uniform coat can be applied.

2. Prepare and apply encapsulating primer according to the manufacturer's specifications. Because application by spraying could cause dissemination of residual LBP, encapsulating primer must be applied with as much caution and at as low a nozzle pressure as possible.

3. Encapsulating primer shall be applied according to manufacturer's specifications. Encapsulating primer shall be allowed to dry between coats, per manufacturer's recommendations.

4. Upon completion of paint stabilization work, notify Owner's consultant in writing that stabilization surfaces are ready for review.

E. **Final Visual Inspection:** Owner's consultant will conduct a thorough visual inspection to determine the completeness of encapsulation and use a damp cloth for wiping abated surfaces prior to collecting the actual wipe samples.

F. **Clearance Wipe Testing:** Upon successful completion of the visual inspection and Owner's consultant's determination that all surfaces in the Work area are dry and free of contamination, the clearance wipe tests will be conducted. A certificate of Visual Inspection shall be issued by the Owner's Representative and shall be signed by both the contractor and the Owner's Representative.

1. The final wipe clearance test will consist of sampling and analysis in accordance with the HUD guidelines. The levels noted in the HUD Guidelines or Title 17, California Code Of Regulations, Division 1, Chapter 8 (whichever is more stringent at time of work) will be achieved prior to acceptance.

2. Contractor shall continue cleaning the Work site until the accepted lead level is achieved.

G. **Additional inspection/testing:** Additional inspection/testing required after the sequence detailed above will be the responsibility of the Contractor. In the event of additional testing, the Contractor may reimburse Owner, or reduce the Contract amount by change order. It is the Owner's intent to have, at no charge to the Contractor, one set of inspections/tests performed in each area. A test may consist of one sample or a series of samples performed at the same time.

H. **Dismantling the negative air system:** When a final inspection and the results of final wipe tests indicate that the area has been decontaminated, exhaust units may be removed from the work area. Before removal from the work area, remove and properly dispose of pre-filter, and seal intake to the machine with 6-mil polyethylene to prevent environmental contamination from the filters.

3.4 HANDLING AND DISPOSAL OF LEAD-COATED MATERIALS AND LEAD-CONTAMINATED WASTE:

Waste Characterization: Contractor shall submit to Owner's consultant, copies of waste characterization testing prior to transportation of all waste.

A. **Storage:** Store all waste material in a lockable container that is inaccessible to all persons other than employee's of the Contractor. Until TCLP testing proves a category to be non-hazardous, all waste shall be considered hazardous, and stored as such. Any material found to be hazardous by way of testing shall be labeled **"Hazardous Waste - Contains Lead"** and the date that the Contractor began to collect the waste in that container. All hazardous and non-hazardous waste shall be kept in totally and completely separate containers.

B. **Waste Segregation**

1. All categories of waste identified in this specification shall be kept separate from each other. The categories that have been identified include:

   a. Waste water from shower and cleaning operations
   b. Disposable suits and respirator cartridges
   c. Components that are painted with Lead-Based paint
   d. Components that are lead-laden (e.g., ceramic tile)
   e. Paint chips, debris and vacuum contents
   f. Plastic sheeting, duct tape
   g. Rags, sponges, mops and other items used to conduct clean up activities

C. **Representative Samples:** Representative material of each of the categories must be sampled and submitted for testing to determine if the material in the category are hazardous.

1. Representative samples of waste materials shall be collected by the Consultant.

D. **Waste Testing**

1. At no time shall waste be removed from the site without the following documentation submitted to the Owner or Owner's representative for approval.

   a. TCLP, STLC, and TTLC testing results as required by the specifications or according to local and state requirements.

b. Hazardous waste manifest for those materials identified as hazardous wastes.

2. Testing of those categories of materials shall be performed to minimize the storage of assumed hazardous materials. Contractor shall collect at least one composite sample from each of the categories listed above in section 3.4.B, "Waste Segregation." The analysis shall be conducted to determine if any of the waste categories are classified as a RCRA hazardous waste. The Contractor shall determine if testing for other compounds, such as pH, Flashpoint, etc., are required for disposal at a particular landfill.

3. If test results of the composite samples for any of the Waste Segregation categories indicate that the sampled materials are found to contain greater than the action levels indicated below, those materials represented by the composite sample shall be disposed of as Hazardous Waste.

   a. Greater than or equal to 1000 PPM of the total Lead as determined by the Total Threshold Limit Concentration Procedure (TTLC) by EPA 6010.

   b. Greater than or equal to five (5) PPM of soluble Lead as determined by the “California Wet Test” or Soluble Threshold Limit Concentration Procedure (STLC) by EPA 200.7.

   c. Greater than or equal to five (5) PPM of leached Lead as determined by the Toxicity Characteristic Leaching Procedure (TCLP) by EPA 200.7

4. All waste must be transported by a Certified Hazardous Waste Transporter.

5. If the test results for any of the waste segregation categories indicate that less than the action levels listed above were detected, those materials represented by the composite sample may be disposed of as construction debris provided they do not meet any other criteria that would designate them as a hazardous waste.

6. The Abatement Contractor will be required to comply with the Resource Conservation and Recovery Act (RCRA) and/or any other applicable state, county law, regulation and/or guidelines, whichever is the most stringent.

D. **Waste Transportation:** Submit the method of transport of hazardous waste including name, address, EPA I.D. number, and telephone number of transporter.

1. If the Abatement Contractor is not a RCRA/DOT/EPA certified Hazardous Waste Transporter, then a contract shall be entered into with a certified Transporter to move the waste. The Abatement Contractor shall require the certified hazardous waste transport firm to follow RCRA, DOT, EPA, and any/all other applicable regulations. Many transporters are also capable of supplying pertinent information and services applicable to necessary rules, regulations, and specifications. The certified Transporter/hauler shall submit to the Owner or Owner's representative for approval their qualifications to perform the work as specified herein. The Abatement Contractor shall be responsible for the actions of the waste hauler as pertaining to waste removal and disposal under this section and all EPA, DOT, and other applicable regulations.

E. **Hazardous Waste Site:** Submit for approval the name, class, address, EPA I.D. number, and telephone number of hazardous waste site(s) to be utilized for disposal.

1. The Abatement Contractor must supply documents that detail the site(s) to be used for ultimate waste disposal. Documents from these disposal sites must be supplied by the Abatement Contractor to the **Owner or Owner's representative** from the disposal facilities stating that hazardous and/or construction waste will be accepted by these facilities. In addition, the Abatement Contractor must submit documents from these sites proving that they are licensed/permitted to accept such waste and will accept the waste proposed by the Abatement Contractor for treatment or ultimate disposal.

D. **Containers:** Containers to be loaded for transportation from the Holding Area must be removed by Workers who have entered from uncontaminated areas, dressed in clean overalls. Workers must not enter from the Holding Area into the Washroom or the Work Area.

1. Waste Containers – The Abatement Contractor will comply with EPA and DOT regulations for waste containers. The Abatement Contractor shall contact the State and Local authorities to determine their criteria for containers. In the case of any conflict in regulations, the more stringent regulation shall apply.

   a. Paint Chips: The Abatement Contractor shall place lead-based paint fragments and debris produced as a result of any abatement activity, and lead dust in 6-mil polyethylene (plastic) bags that are air-tight and puncture-resistant.

   b. Cleaning Materials: The Abatement Contractor will place all disposable cleaning materials such as sponges, mop heads, filters, disposable clothing, and brooms in six-mil plastic bags or sealable drums. If after testing, those materials are determined to be hazardous, the bags or drums will be sealed, labeled, and considered hazardous waste.

   c. Contaminated Debris: In Particular, the Abatement Contractor shall separate, label, and containerize the following.

      (1) All paint fragments removed by chemical strippers, surface preparation, or by any abatement methodology.

      (2) Grossly contaminated body suits.

      (3) HEPA vacuum contents, filters, and respirator cartridges: paint chips or other abatement debris on plastic should always be HEPA vacuumed prior to picking up the plastic.

      (4) Dust/Debris or contaminated materials.

      (5) All hazardous waste or materials should be kept totally separate from non-hazardous materials.

      (6) Polyethylene Sheeting: Prior to removing any six (6) mil polyethylene sheeting, the Abatement Contractor shall lightly mist the sheeting in order

to keep dust down and remove and containerize any debris by folding the polyethylene sheeting inward to contain debris and to form tight bundles to containerize for disposal. The Abatement Contractor shall place all plastic sheeting in six (6) mil thick polyethylene bags or sealable drums, and seal with duct tape.

(7) Liquid Waste: The Abatement Contractor shall contain and properly dispose of all liquid waste, including lead-contaminated wash water. The container for waste waters shall be lined 55 gallon metal drums.

(8) Solvents: The Abatement Contractor shall place solvent residues and residues from strippers in drums made out of materials that cannot be dissolved or corroded by chemicals. Solvents will be tested by the Abatement Contractor to determine if they are hazardous. Solvents, caustic, and acid waste must be segregated and not stored in the same containers.

2. The Abatement Contractor shall HEPA vacuum the exterior of all waste containers prior to removing the waste containers from the work area and shall wet wipe the containers to ensure that there is no residual contamination. Containers should then be moved out of the work area into the designated storage area.

F. **Disposal:** The sealed lead containers shall be delivered to Contractor's predesignated approved Hazardous Waste Site for burial; in accordance with Title 22, CAC, EPA guidelines and 40 CFR 61.156 and local Air Pollution Control District Regulations.

G. **Notification of Transport:** Notify the Owner's consultant **48 hours in advance** of the time when contaminated materials are to be removed from the site.

H. **Safety:** Contractor shall be responsible for safe handling and transportation of hazardous waste generated by this Contract to the designated Hazardous Waste Site.

I. **Hazardous Materials Spills:** Contractor shall hold the Owner and Owner's consultant harmless for claims, damages, losses, and expenses, including attorney's fees arising out of or resulting from, lead spills on the site or spills enroute to the disposal site.

3.5 REESTABLISHMENT OF OBJECTS AND SYSTEMS:

A. **Relocation of Moveable Objects:** Relocate objects moved to temporary locations in the course of the Work to their proper positions. Only clean objects are to be moved into the areas.

B. **Remounting Objects:** Remount objects removed in the course of the Work in their former positions. Repair any moveable or fixed objects damaged during the course of the Work.

C. **Systems reestablishment:** Reestablish HVAC, mechanical, and electrical systems in proper working order.

1. Install new HVAC filters and dispose of used filters as contaminated waste.

D. **Building repair/repaint:** Repair any damage to building, or building systems (electrical, mechanical, plumbing, etc.,) which was not noted in writing prior to work area preparation.

1. Repaint any areas damaged during the course of the Work unless this work is scheduled for repair by others. See paragraph 1.2 C, Related Work Specified Elsewhere, of this section. Quality of paint and workmanship shall be consistent with that found within the building prior to this Project, unless otherwise stated.

END OF SECTION

SECTION 02093 HM

INTERIM CONTROLS REGARDING LOOSE AND FLAKY PAINT
(Paint Film Stabilization)

PART 1 - GENERAL

1.1 SCOPE:

This Specification covers the implementation of interim controls regarding the removal of loose and flaky lead-based paint from substrates as described in Section 01010 HM, Scope of Work.

1.2 DESCRIPTION OF WORK:

A. The Work specified herein shall be the removal of loose and flaky lead-based paint by persons knowledgeable, qualified, and trained in interim controls for the removal, treatment, handling, and disposal of loose and flaky lead-based paint, and the subsequent cleaning of the affected environment, and who comply with Federal, State, and Local regulations and guidelines which mandate work practices, and who are capable of performing the Work of this Contract.

B. **Contract Fulfillment:** The Contractor shall supply all labor, materials, equipment, services, insurance, and incidentals which are necessary or required to perform the Work in accordance with applicable governmental regulations and guidelines and these Specifications.

1.3 TERMINOLOGY:

See Section 02092 HM, Part 1.3 for Terminology.

1.4 APPLICABLE DOCUMENTS:

Comply with Section 02092 HM, Part 1.4 for Applicable Documents.

1.5 SUBMITTALS AND NOTICES:

Comply with Section 02092 HM, Part 1.5 for Submittals and Notices.

1.6 **PERSONAL PROTECTION AND SAFETY:**

Comply with Section 02092 HM, Part 1.6. It shall be modified in the following particulars only.

A. **Respiratory Protection Requirements:**

1. Disposable (single use) respirators are not to be worn for protection against lead.

2. For the following tasks or conditions, a 1/2 mask air-purifying respirator, equipped with high efficiency filters may be used:

   a. Provided maximum airborne lead concentration outside the respirator at or below 500 $\mu g/m^3$:

   b. Pre-construction sealing of openings and penetrations to the work areas with plastic sheeting.

   c. Decontamination of removable items.

   d. During removal of lead-containing materials.

   e. During all cleanup and wipe down of area.

   f. During final wipe down of work space.

   g. Loading lead-containing drums on truck for transportation and unloading bags at approved landfill.

3. A full facepiece, powered air-purifying respirator equipped with HEPA filters will be required under the following conditions:

   a. At any time that air monitoring levels indicate that lead concentrations are at least 500 $\mu g/m^3$ or greater.

4. All employees and visitors will wear appropriate filters for the work at hand. During chemical use, follow manufacturer guidelines for appropriate personal and respiratory protection.

B. **Bilingual Worker Protection Procedures (Posted in both English and Spanish):**

1. Each worker and authorized visitor shall: put on a respirator and don one suit of protective clothing before entering the Equipment Room or the Work area. Clothing that is appropriate for weather and temperature conditions is worn under the protective clothing.

2. Each time before leaving the work area, all workers and authorized visitors shall remove gross contamination from the protective clothing using a HEPA vacuum, then remove protective clothing except respirators by carefully rolling down the garment to reduce exposure to dust and place within a labeled hazardous material

6-mil plastic bag which is within the work area. Personnel will then proceed through to the washroom and clean the outside of the respirator with a wet disposable towel; remove the respirator; and thoroughly wet wipe themselves

3. Following wet wiping and decontamination procedures, each Worker shall proceed directly to the outside area at the end of each day's Work, or before eating, smoking, or drinking.

4. Before re-entering the Work Area, each Worker and authorized visitor shall put on a clean respirator and shall dress in clean protective clothing as described above.

5. Contaminated work footwear shall be stored in the Equipment Room or Work area in a labeled 6-mil bag when not in use in the Work area until they are appropriately decontaminated. Upon completion of lead work, dispose of footwear as contaminated waste unless they can be appropriately decontaminated. All porous type footwear will be disposed of as contaminated waste.

6. Workers removing waste containers from the equipment decontamination enclosure shall enter the holding area from outside wearing a respirator and dressed in clean disposable coveralls. No worker shall use this system as a means to leave or enter the washroom or the Work area.

7. Workers shall not eat, drink, smoke, or chew gum or tobacco while in the Work area.

8. Workers shall be fully protected with respirators and protective clothing from the time of first disturbance of lead-coated or contaminated materials prior to commencing actual lead abatement and until final cleanup is completed.

1.7 **SUPERINTENDENT, FOREMAN, CRAFTSMAN:**

Comply with Section 02092 HM, Part 1.7, Superintendent, Foreman, Craftsman.

PART 2 - MATERIAL AND EQUIPMENT

Comply with Section 02092 HM, Part 2.

PART 3 - EXECUTION

3.1 PREPARATION:

A. For exterior work, the contractor shall prepare the area as follows:

1. Doors and Windows: Doors and windows on the side of the building upon which a dust-generating method is being used, and on the same floor and all floors below, must be covered with 6-mil thick polyethylene sheeting.

2. Plants and ground: The ground and any plants or shrubs in the area in which exterior abatement is occurring shall be covered with two layers of 6-mil plastic in a tarp-like fashion, sufficiently bonded together to form a single layer and weighted at all edges so as to prevent blowing. A single 10-mil plastic sheet may be substituted. Such covering shall cover from the side of the structure to a point at least eight feet away from the structure for every story in height (10'). The covering shall be taped or otherwise attached to the structure.

3. Ground covers shall always be placed in a manner that traps all debris and water. This is best accomplished by elevating the edges.

4. The plastic ground cover shall be properly disposed of and not re-used.

B. For exterior work where water blasting occurs, the contractor shall prepare the area as follows:

1. Critical Barriers shall be erected whereby all water and loose paint shall be contained within the Work Area.

2. Ground: The ground shall be covered with 10-mil or 6-mil reinforced polyethylene and shall extend 18 inches vertically at all perimeter walls.

3. Vertical Surfaces: A single layer of 6-mil polyethylene shall be constructed as a critical barrier on all vertical walls and shall overlap 12 inches on top of ground poly.

4. Contractor shall contain all water within the enclosure. Contractor shall construct containment as to prevent water leakage from containment or into buildings.

5. All containment plastic shall be properly disposed of and not re-used.

6. All water within the containment shall be filtered with a HEPA filtration device.

C. For all exterior work:

1. **Special Areas:** Any abatement project being performed on any structure other than a building shall be arranged, equipped, and operated in a manner that will eliminate the possibility of lead contaminates or lead contaminated materials escaping from the work area.

2. **Maintain Barriers:** The abatement subcontractor shall maintain polyethylene barriers and a clean area as long as needed for the safe and proper completion of the work. Any openings or tears in the work area barriers shall be corrected by the abatement subcontractor at the beginning of each work day and as necessary during the workday with such openings and barriers in place and acceptable to the owner's consultant.

3. **Prior to barrier removal:** Barriers shall not be removed until the work areas are thoroughly cleaned, and the area is approved by the consultant. All debris must be bagged and removed from work areas, and the lead surface wipe samples must

have passed final clearance test, in accordance with provisions detailed in the barrier removal.

4. **Use of mini-isolation chamber:** At the Owner's, and consultant approval, the Abatement Subcontractor may utilize a portable mini-isolation chamber to create an isolated work area around single components to be removed. This chamber shall still be equipped with an adjacent clean room, and become an isolated work area sealed at all seams to where it is attached to adjacent surfaces. It shall also satisfy all requirements for a work area and satisfy all clearance criteria, as identified in this section and local law.

5. **Signs:** Prior to the preparation of the dwelling for abatement, the abatement subcontractor shall place warning signs immediately outside all entrances and exits to the dwelling, warning that abatement work is being conducted in the vicinity. The signs shall be at least 20" x 14" and read

DANGER

LEAD WORK AREA

MAY DAMAGE FERTILITY OR THE UNBORN CHILD

CAUSES DAMAGE TO THE CENTRAL NERVOUS SYSTEM

DO NOT EAT, DRINK OR SMOKE IN THIS AREA

6. Signs shall be in bold lettering with lettering not smaller than two inches tall.

7. Construct and maintain suitable polyethylene barriers within the building to isolate the exterior work area from the interior of the building. Make every effort to maintain a distance of 25 feet from the barrier tape to the closet scheduled point of work within the Work area(s).

8. Maintain emergency and fire exits from Work Areas.

D. For interior work, the contractor shall prepare the area as follows:

1. **HVAC shut down:** Shut down or isolate heating, cooling, ventilation air systems within the control area to prevent contamination and dust dispersal to other areas of the structure. During the Work, vents within the immediate removal area (to a distance of ten feet from the affected surface) shall be sealed with tape and plastic sheeting and as shown on plans.

2. **Loose equipment:** Do not begin Work until immediate work area is free of loose equipment.

3. **Pre-clean:** Pre-clean fixed objects within the proposed Work Areas using HEPA filtered vacuum equipment and/or protect occupants' belongings by covering with one layer of six mil polyethylene and have joints taped. All debris gathered during this clean up shall be disposed of properly. In addition, any loose paint or paint bearing debris found in the buildings are to be assumed hazardous and packaged

and disposed of properly. The amount of the materials should be estimated during the pre-bid walk through.

4. **Use of a mini-containment:** At the Owner's and consultant's approval, the Abatement Subcontractor may utilize a portable mini-isolation chamber to create an isolated work area around single components to be removed. This chamber shall still be equipped with an adjacent clean room, and become an isolated work area sealed at all seams to where it is attached to adjacent surfaces. It shall also satisfy all requirements for a work area and satisfy all clearance criteria, as identified in this section and local law.

5. **Walls and floors:** Lay a single layer of six-mil thick polyethylene sheeting below the impacted area. Sheeting will extend to a distance of six feet beyond the affected area in all direction not bounded by walls or non-moveable partitions. Walls directly below the affected surface will be covered with six-mil thick polyethylene sheeting to extend 4 feet in either direction beyond the affected area.

6. **Surrounding barrier:** A barrier shall be erected at room entrances, which shall be sealed with a single layer of six-mil thick polyethylene sheeting, and a suitable two-stage decontamination unit shall be erected and attached to barrier sheeting.

7. **Maintaining barriers:** The abatement subcontractor shall maintain polyethylene barriers and a clean area as long as needed for the safe and proper completion of the work. Any openings or tears in the work area barriers shall be corrected by the abatement subcontractor at the beginning of each work day and as necessary during the workday with such openings and barriers in place and acceptable to the consultant.

8. **Removal of barriers:** Barriers shall not be removed until the work areas are thoroughly cleaned, and the area approved by the consultant. All debris must be bagged and removed from work areas, and the lead surface wipe samples must have passed final clearance test according to provisions detailed in the barrier removal.

9. **Signs:** Prior to the preparation of the dwelling for abatement, the abatement subcontractor shall place warning signs immediately outside all entrances and exits to the dwelling, warning that abatement work is being conducted in the vicinity. The signs shall be at least 20" x 14" and read:

DANGER

LEAD WORK AREA

MAY DAMAGE FERTILITY OR THE UNBORN CHILD

CAUSES DAMAGE TO THE CENTRAL NERVOUS SYSTEM

DO NOT EAT, DRINK OR SMOKE IN THIS AREA

10. Signs shall be in bold lettering with lettering not smaller than two inches tall.

11. Maintain emergency and fire exits from Work Areas.

12. Construct and maintain suitable polyethylene barriers within the building to isolate the exterior work area from the interior of the building. Make every effort to maintain a distance of 10 feet from the barrier tape to the closet scheduled point of work within the Work area.

13. Maintain emergency and fire exits from Work Areas.

E. **Decontamination Facilities:**

Build suitable decontamination facilities described herein, as previously submitted for review, before start of construction.

In all cases, access between contaminated and uncontaminated rooms or areas shall be through an air lock previously defined. Passage between any two rooms within the decontamination facility shall be through an access doorway.

1. Locate decontamination facility as close in proximity to the Work area as possible.

2. Construct a two-stage worker decontamination enclosure system consisting of two totally separate areas to conform to standard Plans found herein and as follows.

   a. A shower area with two access ways: one to the equipment room and one to the outside area. Plastic, if used, on shower room and adjoining equipment rooms shall be opaque.

   b. The shower area shall contain at least one room with water for wet wiping of hands and face. Careful attention shall be paid to the shower enclosure to ensure against leaking of any kind.

3. If needed, provide or construct an equipment decontamination area consisting of two totally separate areas as follows:

   a. A washroom, with access to a designated area of the Work area and access to the holding area.

   b. A holding area with access to the washroom and access to an uncontaminated area.

4. At entrances and exits and the decontamination facility name of both the shower and equipment decontamination room, a clearly identifiable label shall be affixed that is visible from a distance of 25 feet.

3.2 INTERIM CONTROL METHODS FOR LOOSE AND FLAKY LBP:

A. Prepare site per paragraph 3.1.

B. Remove and clean or clean and wrap objects, such as lights and other items not previously sealed off that may interfere with lead removal. Use HEPA vacuum equipment and wet methods during fixture removal to reduce lead dispersal. Wrap removed items in plastic and store for reinstallation upon completion of testing procedures.

C. **Protection:** Protect all fixtures, grills, lockers, and other non-removable equipment from water. Also, protect painted surfaces and flooring.

D. **Scrapping of loose and flaky paint:**

1. All surfaces shall be final scrapped following other flaky paint removal methods.

2. The Contractor shall scrape the material in such a manner as to prevent damage to the substrate.

3. The Contractor shall use wet methods during the scrapping process, unless the substrate will result in undo damage from the wetting. If wetting cannot be performed to this condition, scrapping shall be slow and deliberate so as to lessen the distance of travel. In all cases, occasional misting of the immediate area over the drop cloth shall be performed. After scrapping the impacted area, the area shall be thoroughly HEPA vacuumed.

4. Sufficient scrapping of loose and flaky paint for application of lead-bloc or other encapsulation method shall occur when a scrapping blade is drawn across the remaining painted surface with heaviness of hand and no additional paint dislodges from the substrate. Sufficient scrapping is at the discretion of the consultant and/or inspector.

E. **Paint Stabilization:** Perform paint stabilization process according to Section 2092, Part 3.3.D.

3.3 CLEANUP AND CLEARANCE MONITORING:

Comply with Section 02092 HM, Part 3.3, for Cleanup and Clearance Monitoring.

3.4 DISPOSAL OF LEAD-COATED MATERIALS AND LEAD-CONTAMINATED WASTE:

Comply with Section 02092 HM, Part 3.4, for Disposal of Lead-Coated Materials and Lead-Contaminated Waste.

3.5 REESTABLISHMENT OF OBJECTS AND SYSTEMS:

Comply with Section 02092 HM, Part 3.5 for Reestablishment of Objects and Systems.

END OF SECTION

APPENDIX A – LIMITED ASBESTOS INSPECTION REPORT DATED JANUARY 22, 2021

EXECUTIVE ENVIRONMENTAL
HEALTH & SAFETY SIMPLIFIED

Industrial Hygiene • Air Quality • Lead & Asbestos • Training • Health & Safety

LIMITED ASBESTOS INSPECTION REPORT

Conducted at:

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PAINTING PROJECT
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Project Number EE 20-Z0046-0134
January 22, 2021

Report assembled by:

Yesenia G. Galeana
Technical Report Writer
Executive Environmental

Report generated/reviewed by:

Tim Galeana, CLP # 3732
Senior Project Manager
Executive Environmental

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LIMITED ASBESTOS INSPECTION REPORT

Project Number:	EE 20-Z0046-0134
Client:	Rosemead School District 3907 Rosemead Boulevard, Suite 220 Rosemead, California 91770
Site Location:	Janson Elementary School Painting Project 8628 Marshall Avenue Rosemead, California 91770
Site Use:	School Property
Contact Person:	Mr. Harold Sullins Assistant Superintendent Phone: (626) 312-2900
Inspection Date:	November 9 through 12, 2020
Inspected By:	Mr. Rhys Kuzmic Certified Asbestos Consultant, # 09-4586
Report Assembled By:	Ms. Yesenia G. Galeana Technical Report Writer
Report Generated/Reviewed By:	Mr. Tim Galeana Certified Asbestos Consultant, # 98-2470

I. EXECUTIVE SUMMARY

Executive Environmental (EE) provided the services of a Certified Asbestos Consultant to conduct a limited asbestos inspection of the permanent buildings, portables and covered walkways at Janson Elementary School located at 8628 Marshall Avenue, Rosemead, California. The inspection was conducted as a precursor to the upcoming exterior painting project. Materials suspected of containing asbestos were sampled and analyzed for the presence of asbestos. No Asbestos-Containing Materials (ACM) were identified during this inspection. *This is considered to be a limited inspection. Inspection was limited to exterior materials anticipated to be impacted by the exterior painting project*.

II. SAMPLING METHODOLOGY

A visual inspection of the exterior of the permanent buildings, portables and covered walkways at Janson Elementary School was conducted prior to the collection of any bulk samples. The visual inspection was conducted to identify and record the location and condition of the materials to be sampled. Following the visual inspection, bulk material samples of the identified suspect asbestos-containing building materials were collected.

The materials were categorized into homogeneous groupings, and each sample was assigned a unique sample number and placed into a sealed container.

Upon completion of the bulk sample collection, a chain of custody was prepared and the samples were delivered to the laboratory for analysis. AmeriSci of Carson, CA, analyzed the samples using Polarized Light Microscopy (PLM). AmeriSci is an accredited participant in the National Voluntary Laboratory Accreditation Program (NVLAP), No. 200346-0. The principles described in the current Environmental Protection Agency (EPA) 600 method were used in the preparation and analysis of the bulk samples.

Note: Inaccessible suspect asbestos materials may be located within sealed ceilings, walls, or floors; or within wall cavities, interstitials, shafts, etc. Suspect asbestos materials located in these areas must be sampled prior to any activities that might cause them to be disturbed.

III. SAMPLE ANALYSIS

Eighty (80) samples were collected during this inspection. The laboratory analysis results are identified in the following table. Materials determined not to contain asbestos are listed as “No Asbestos Detected” (NAD).

Any material found to contain more than 1% of a known asbestos substance is considered to be an asbestos-containing material (ACM). Materials falling within this category are controlled and must be handled in accordance with the California Occupational Safety & Health Administration (Cal/OSHA), EPA, and South Coast Air Quality Management District (SCAQMD) regulations.

In addition, materials which are characterized as non-ACM by EPA or other local regulatory agencies may fall within the regulatory standards of Cal/OSHA, which further regulates any materials found to contain more than 1/10 of 1%, but 1% or less, of a known asbestos substance as asbestos-containing construction materials (ACCMs). Impacting or handling ACCMs requires special employer registration, documentation, training, and personal protective equipment. When a material is to be impacted, the National Emission Standards for Hazardous Air Pollutants (NESHAPs) regulations require further testing for materials that fall within this category.

The PLM analytical protocol requires each layer of the sample to be analyzed separately. The quantity of analyses will vary based on the number of layers in a sample and whether a "positive stop" is employed. When one sample of a homogeneous area is positive, the remainder of the samples need not be analyzed because the entire homogeneous area must be considered positive.

Sampling results begin on the next page.
The remainder of this page is blank.

POLARIZED LIGHT MICROSCOPY (PLM) ANALYSIS DATA

Janson Elementary School
8628 Marshall Avenue
Rosemead, California 91770

Homogeneous Material #	Material Description	Material Location	Estimated Quantity	Condition[A]	Type[B]	Friable	Percent Damaged	Sample Number	Sample Location	Analytical Results
Building A (Administration/Room 3)[C]										
1	Stucco	Throughout exterior walls	4,500 Square Feet	G	Surf.	No	<1	2011090134RK-01	West wall	NAD[D]
								2011090134RK-02	South wall	NAD
								2011090134RK-03	East wall	NAD
								2011090134RK-04	East wall at breezeway	NAD
								2011090134RK-05	North wall	NAD
Building B (Room 4)[E]										
2	Stucco	Throughout exterior walls and breezeway	2,700 Square Feet	G	Surf.	No	<1	2011090134RK-06	Breezeway ceiling, southwest	NAD
								2011090134RK-07	South wall	NAD
								2011090134RK-08	West wall	NAD
								2011090134RK-09	North wall	NAD
								2011090134RK-10	East wall	NAD

Note: This table must be used in conjunction with the entire report. This document is not to be used for contract bidding and is intended to be used to identify asbestos-containing materials and their locations only.

[A] G = Good; D = Damaged; SD = Severely Damaged
[B] Misc. = Miscellaneous; Surf. = Surfacing; TSI = Thermal System Insulation
[C] NOTE: 1) Wood overhangs. 2) No window putty.
[D] NAD = No Asbestos Detected.
[E] NOTE: 1) Wood overhangs. 2) No window putty.

POLARIZED LIGHT MICROSCOPY (PLM) ANALYSIS DATA

Janson Elementary School
8628 Marshall Avenue
Rosemead, California 91770

Homogeneous Material #	Material Description	Material Location	Estimated Quantity	Condition[F]	Type[G]	Friable	Percent Damaged	Sample Number	Sample Location	Analytical Results
Building C (Multi-Purpose Building)[H]										
3	Stucco	Throughout exterior walls	6,400 Square Feet	G	Surf.	No	<1	2011090134RK-11	South wall	<1% chrysotile[I]
										1000-Pt. Ct.: NAD[J]
								2011090134RK-12	West wall, south end	<1% chrysotile
										1000-Pt. Ct.: NAD
								2011090134RK-13	West wall, north end	<1% chrysotile
										1000-Pt. Ct.: NAD
								2011090134RK-14	East wall	<1% chrysotile
										1000-Pt. Ct.: <0.1% chrysotile
								2011090134RK-15	East wall, north end	<1% chrysotile
										1000-Pt. Ct.: <0.1% chrysotile
								2011090134RK-16	North wall	<1% chrysotile
										1000-Pt. Ct.: <0.1% chrysotile
								2011090134RK-17	East wall above Covered walkway no. 2	<1% chrysotile
										1000-Pt. Ct.: <0.1% chrysotile

Note: This table must be used in conjunction with the entire report. This document is not to be used for contract bidding and is intended to be used to identify asbestos-containing materials and their locations only.

[F] G = Good; D = Damaged; SD = Severely Damaged
[G] Misc. = Miscellaneous; Surf. = Surfacing; TSI = Thermal System Insulation
[H] NOTE: 1) Wood overhangs. 2) No window putty.
[I] Samples 11 thru 17 that had a result of less than 1% chrysotile via PLM analysis were further analyzed via the 1000-point count method. The analysis by 1000-point count analysis revealed that under Cal/OSHA regulations the stucco is a non-regulated material.
[J] NAD = No Asbestos Detected.

POLARIZED LIGHT MICROSCOPY (PLM) ANALYSIS DATA

Janson Elementary School
8628 Marshall Avenue
Rosemead, California 91770

Homogeneous Material #	Material Description	Material Location	Estimated Quantity	Condition[K]	Type[L]	Friable	Percent Damaged	Sample Number	Sample Location	Analytical Results
Building D (Classrooms 10 thru 12)[M]										
4	Stucco	Throughout exterior walls	3,000 Square Feet	G	Surf.	No	<1	2011090134RK-18	West wall	NAD[N]
								2011090134RK-19	North wall, west end	NAD
								2011090134RK-20	South wall	NAD
								2011090134RK-21	East wall	NAD
								2011090134RK-22	North wall, east end	NAD
Building D (Classrooms 13 thru 16)[O]										
5	Stucco	Throughout exterior walls and West Breezeway	3,500 Square Feet	G	Surf.	No	<1	2011120134RK-23	South wall	NAD
								2011120134RK-24	East wall	NAD
								2011120134RK-25	North wall	NAD
								2011120134RK-26	West wall	NAD
								2011120134RK-27	West breezeway ceiling, southeast	NAD

Note: This table must be used in conjunction with the entire report. This document is not to be used for contract bidding and is intended to be used to identify asbestos-containing materials and their locations only.

[K] G = Good; D = Damaged; SD = Severely Damaged
[L] Misc. = Miscellaneous; Surf. = Surfacing; TSI = Thermal System Insulation
[M] NOTE: 1) Wood overhangs. 2) No window putty.
[N] NAD = No Asbestos Detected.
[O] NOTE: 1) Wood overhangs. 2) No window putty

POLARIZED LIGHT MICROSCOPY (PLM) ANALYSIS DATA

Janson Elementary School
8628 Marshall Avenue
Rosemead, California 91770

Homogeneous Material #	Material Description	Material Location	Estimated Quantity	Condition[P]	Type[Q]	Friable	Percent Damaged	Sample Number	Sample Location	Analytical Results
Building E (Classrooms 17 thru 19)[R]										
6	Stucco	Throughout exterior walls	3,000 Square Feet	G	Surf.	No	<1	2011120134RK-28	North wall, west end	NAD[S]
								2011120134RK-29	West wall	NAD
								2011120134RK-30	South wall	NAD
								2011120134RK-31	East wall	NAD
								2011120134RK-32	North wall, east end	NAD
Building F (Classrooms 20 thru 23)[T]										
7	Stucco	Throughout exterior walls and West Breezeway	3,500 Square Feet	G	Surf.	No	<1	2011120134RK-33	South wall	NAD
								2011120134RK-34	East wall	NAD
								2011120134RK-35	North wall	NAD
								2011120134RK-36	West wall	NAD
								2011120134RK-37	West breezeway ceiling, southeast	NAD

Note: This table must be used in conjunction with the entire report. This document is not to be used for contract bidding and is intended to be used to identify asbestos-containing materials and their locations only.

[P] G = Good; D = Damaged; SD = Severely Damaged
[Q] Misc. = Miscellaneous; Surf. = Surfacing; TSI = Thermal System Insulation
[R] NOTE: 1) Wood overhangs. 2) No window putty.
[S] NAD = No Asbestos Detected.
[T] NOTE: 1) Wood overhangs. 2) No window putty.

POLARIZED LIGHT MICROSCOPY (PLM) ANALYSIS DATA

Janson Elementary School
8628 Marshall Avenue
Rosemead, California 91770

Homogeneous Material #	Material Description	Material Location	Estimated Quantity	Condition[U]	Type[V]	Friable	Percent Damaged	Sample Number	Sample Location	Analytical Results
Building H (Classrooms 5 thru 9)[W]										
8	Stucco	Throughout exterior walls and Overhang	4,500 Square Feet	G	Surf.	No	<1	2011120134RK-38	South wall	NAD[X]
								2011120134RK-39	West wall	NAD
								2011120134RK-40	North wall	<1% chrysotile[Y]
										1000-Pt. Ct.: <1% chrysotile
								2011120134RK-41	East wall	<1% chrysotile
										1000-Pt. Ct.: <1% chrysotile
								2011120134RK-42	Overhang, southeast	<1% chrysotile
										1000-Pt. Ct.: <1% chrysotile

Note: This table must be used in conjunction with the entire report. This document is not to be used for contract bidding and is intended to be used to identify asbestos-containing materials and their locations only.

[U] G = Good; D = Damaged; SD = Severely Damaged
[V] Misc. = Miscellaneous; Surf. = Surfacing; TSI = Thermal System Insulation
[W] NOTE: 1) No window putty. 2) Exterior cinderblock and mortar not anticipated to be impacted during this Painting Project.
[X] NAD = No Asbestos Detected.
[Y] Samples 40 thru 42 that had a result of less than 1% chrysotile via PLM analysis were further analyzed via the 1000-point count method. The analysis by 1000-point count analysis revealed that under Cal/OSHA regulations the stucco is a non-regulated material.

POLARIZED LIGHT MICROSCOPY (PLM) ANALYSIS DATA

Janson Elementary School
8628 Marshall Avenue
Rosemead, California 91770

Homogeneous Material #	Material Description	Material Location	Estimated Quantity	Condition[Z]	Type[AA]	Friable	Percent Damaged	Sample Number	Sample Location	Analytical Results
Restroom Building 1[BB]										
9	Stucco	Throughout exterior walls and West Breezeway	1,200 Square Feet	G	Surf.	No	<1	2011120134RK-43	South wall	NAD[CC]
								2011120134RK-44	North wall	NAD
								2011120134RK-45	West wall	NAD
								2011120134RK-46	East wall	NAD
								2011120134RK-47	West breezeway ceiling, southeast	NAD
Restroom Building 2[DD]										
10	Stucco	Throughout exterior walls and West Breezeway	1,200 Square Feet	G	Surf.	No	<1	2011120134RK-48	North wall	NAD
								2011120134RK-49	South wall	NAD
								2011120134RK-50	East wall	NAD
								2011120134RK-51	West wall	NAD
								2011120134RK-52	West breezeway ceiling, southeast	NAD

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[Z] G = Good; D = Damaged; SD = Severely Damaged
[AA] Misc. = Miscellaneous; Surf. = Surfacing; TSI = Thermal System Insulation
[BB] NOTE: 1) Wood overhangs. 2) No window putty.
[CC] NAD = No Asbestos Detected.
[DD] NOTE: 1) Wood overhangs. 2) No window putty.

POLARIZED LIGHT MICROSCOPY (PLM) ANALYSIS DATA

Janson Elementary School
8628 Marshall Avenue
Rosemead, California 91770

Homogeneous Material #	Material Description	Material Location	Estimated Quantity	Condition [EE]	Type[FF]	Friable	Percent Damaged	Sample Number	Sample Location	Analytical Results
Covered Walkways[GG]										
11	Stucco	Covered walkway no. 7 walls	200 Square Feet	G	Surf.	No	<1	2011120134RK-53	East wall, north side	NAD[HH]
								2011120134RK-54	South side wall	NAD
								2011120134RK-55	West wall, south side	NAD
12	Stucco	Covered walkway no. 10 walls	200 Square Feet	G	Surf.	No	<1	2011120134RK-56	East wall, east side	NAD
								2011120134RK-57	East wall, south side	NAD
								2011120134RK-58	West wall, north side	NAD
Campus										
13	Asphalt paving	Kindergarten playground	2,700 Square Feet	G	Misc.	No	<1	2011120134RK-59	Southeast	NAD
								2011120134RK-60	Southwest	NAD
								2011120134RK-61	North	NAD
14	Asphalt paving	South playground	23,000 Square Feet	G	Misc.	No	<1	2011120134RK-62	Southeast	NAD
								2011120134RK-63	West of Building K (Room 25)	NAD
								2011120134RK-64	Center	NAD
								2011120134RK-65	Southwest	NAD
								2011120134RK-66	Northwest	NAD

Note: This table must be used in conjunction with the entire report. This document is not to be used for contract bidding and is intended to be used to identify asbestos-containing materials and their locations only

[EE] G = Good; D = Damaged; SD = Severely Damaged
[FF] Misc. = Miscellaneous; Surf. = Surfacing; TSI = Thermal System Insulation
[GG] NOTE: 1) Covered walkways no. 1 thru 6, 8, 9, 11 and 12 have wood ceiling and metal poles.
[HH] NAD = No Asbestos Detected.

POLARIZED LIGHT MICROSCOPY (PLM) ANALYSIS DATA

Janson Elementary School
8628 Marshall Avenue
Rosemead, California 91770

Homogeneous Material #	Material Description	Material Location	Estimated Quantity	Condition[II]	Type[JJ]	Friable	Percent Damaged	Sample Number	Sample Location	Analytical Results
Campus										
15	Asphalt paving	Driveway to South Parking Lot	3,900 Square Feet	G	Misc.	No	<1	2011120134RK-67	Northeast	NAD[KK]
								2011120134RK-68	Center	NAD
								2011120134RK-69	South	NAD
16	Texture coat	School sign at South Parking Lot	60 Square Feet	G	Misc.	No	<1	2011120134RK-70	On support post	NAD
								2011120134RK-71	On support post	NAD
								2011120134RK-72	On support post	NAD
17	Asphalt paving	South Parking Lot	33,000 Square Feet	G	Misc.	No	<1	2011120134RK-73	East	NAD
								2011120134RK-74	East	NAD
								2011120134RK-75	Center	NAD
								2011120134RK-76	Center-west	NAD
								2011120134RK-77	West	NAD
18	Texture coat	School sign north by Building A (Administration/Room 3)	60 Square Feet	G	Misc.	No	<1	2011120134RK-78	On support post	NAD
								2011120134RK-79	On support post	NAD
								2011120134RK-80	On support post	NAD

Note: This table must be used in conjunction with the entire report. This document is not to be used for contract bidding and is intended to be used to identify asbestos-containing materials and their locations only

[II] G = Good; D = Damaged; SD = Severely Damaged
[JJ] Misc. = Miscellaneous; Surf. = Surfacing; TSI = Thermal System Insulation
[KK] NAD = No Asbestos Detected.

POLARIZED LIGHT MICROSCOPY (PLM) ANALYSIS DATA

Janson Elementary School
8628 Marshall Avenue
Rosemead, California 91770

Homogeneous Material #	Material Description	Material Location	Estimated Quantity	Condition[LL]	Type[MM]	Friable	Percent Damaged	Sample Number	Sample Location	Analytical Results
Portables[NN]										
No suspect asbestos-containing materials were identified on the exterior walls of Building J (Room 24), Building K (Room 25), Building O (Portable 42), Building P (Portable 43), Building L (Portables 26 thru 29 and Restroom), Building Q (Portables 30 thru 32), Building M (Portables 33 thru 37) and Building N (Portables 38 thru 41).										

Note: This table must be used in conjunction with the entire report. This document is not to be used for contract bidding and is intended to be used to identify asbestos-containing materials and their locations only.

The remainder of this page is blank.

[LL] G = Good; D = Damaged; SD = Severely Damaged
[MM] Misc. = Miscellaneous; Surf. = Surfacing; TSI = Thermal System Insulation
[NN] NOTE: 1)All Portables have exterior wood walls and metal components.

IV. FINDINGS

EE conducted a limited asbestos inspection of the permanent buildings, portables and covered walkways at Janson Elementary School located at 8628 Marshall Avenue, Rosemead, California.

Eighteen (18) homogeneous material groups were identified during the visual property inspection. Eighty (80) samples of suspect asbestos-containing materials were collected and delivered to AmeriSci of Carson, CA for analysis. The homogeneous area and sampling results are listed on the table in Section III.

The analytical data revealed that the sampled materials do not contain asbestos.

V. CONCLUSIONS/RECOMMENDATIONS

No asbestos-containing materials were identified during this inspection. Activities involving the inspected materials may proceed as normal construction actions. If suspect asbestos materials that were not sampled are to be disturbed, additional sampling will be required

If you have any questions, please call Mr. Tim Galeana at 626-441-7050. We are glad we could be of service to you.

VI. DISCLAIMER/REPORT LIMITATIONS

All reports and recommendations are based on conditions and practices observed and information made available to Executive Environmental (EE) by the client and the designated sites/facilities on the days sampling was conducted. This report does not purport to set forth all hazards, nor to indicate that other hazards do not exist. No responsibility is assumed by EE for the control or correction of conditions or practices existing at the facilities, or at any other premises surveyed by EE, for and on the behalf of the client. Services provided by EE shall be governed by the standard of practice for professional services measured at the time those services are rendered.

All information contained in this report is proprietary and limited to the scope of services, parameters of the analytical methods used and the conditions present at the time of this inspection. Any references to quantities are considered estimates and are not to be construed as actual.

APPENDIX A – LABORATORY ANALYSIS REPORT

Please Reply To:

AmeriSci Los Angeles
24416 S. Main Street, Ste 308
Carson, California 90745
TEL: (310) 834-4868 • FAX: (310) 834-4772

FACSIMILE TELECOPY TRANSMISSION

To:	Yesenia Galeana Executive Environmental Services Corporation	**From:**	Kristina Martinez
		AmeriSci Job #:	920111158
Fax #:		**Subject:**	PLM 3 day Results
		Client Project:	20-Z0046-0134; Building A (Admin / Room 3), Building B (Room 4), Building C (MP
Email:	info@execenv.com,ygaleana@execenv.com		

Date: Thursday, November 12, 2020
Time: 20:45:00
Comments:

Number of Pages: 10 (including cover sheet)

AmeriSci Los Angeles
24416 S. Main Street, Ste 308
Carson, California 90745
TEL: (310) 834-4868 • FAX: (310) 834-4772

PLM Bulk Asbestos Report

Executive Environmental Services Corpo
Attn: Yesenia Galeana
310 East Foothill Blvd.
Suite 200
Arcadia, CA 91006

Date Received 11/10/20
Date Examined 11/12/20

AmeriSci Job # 920111158
P.O. #
Page 1 **of** 5

RE: 20-Z0046-0134; Building A (Admin / Room 3), Building B (Room 4), Building C (MPR), Building D (Rooms 10-12)

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
2011090134RK-01	920111158-01	*No*	NAD (by CVES) by Kristina Martinez on 11/12/20
Location: Exterior, West Wall / Exterior Stucco / T-O Exterior Walls			
Analyst Description: White/Grey, Heterogeneous, Non-Fibrous, Cementitious, Stucco			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
2011090134RK-02	920111158-02	*No*	NAD (by CVES) by Kristina Martinez on 11/12/20
Location: Exterior, South Wall / Exterior Stucco			
Analyst Description: White/Grey, Heterogeneous, Non-Fibrous, Cementitious, Stucco			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
2011090134RK-03	920111158-03	*No*	NAD (by CVES) by Kristina Martinez on 11/12/20
Location: Exterior, East Wall / Exterior Stucco			
Analyst Description: White/Grey, Heterogeneous, Non-Fibrous, Cementitious, Stucco			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
2011090134RK-04	920111158-04	*No*	NAD (by CVES) by Kristina Martinez on 11/12/20
Location: Exterior, East Wall At Breezeway / Exterior Stucco			
Analyst Description: White/Grey, Heterogeneous, Non-Fibrous, Cementitious, Stucco			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
2011090134RK-05	920111158-05	*No*	NAD (by CVES) by Kristina Martinez on 11/12/20
Location: Exterior, North Wall / Exterior Stucco			
Analyst Description: White/Grey, Heterogeneous, Non-Fibrous, Cementitious, Stucco			
Asbestos Types:			
Other Material: Non-fibrous 100 %			

See Reporting notes on last page

PLM Bulk Asbestos Report

20-Z0046-0134; Building A (Admin / Room 3), Building B (Room 4), Building C (MPR), Building D (Rooms 10-12)

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
2011090134RK-06	920111158-06	***No***	NAD (by CVES) by Kristina Martinez on 11/12/20
Location: Exterior, Breezeway Ceiling SW / Exterior Stucco / T-O Exterior Walls And Breezeway			
Analyst Description: White/Grey, Heterogeneous, Non-Fibrous, Cementitious, Stucco			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
2011090134RK-07	920111158-07	***No***	NAD (by CVES) by Kristina Martinez on 11/12/20
Location: Exterior, South Wall / Exterior Stucco			
Analyst Description: White/Grey, Heterogeneous, Non-Fibrous, Cementitious, Stucco			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
2011090134RK-08	920111158-08	***No***	NAD (by CVES) by Kristina Martinez on 11/12/20
Location: Exterior, West Wall / Exterior Stucco			
Analyst Description: White/Grey, Heterogeneous, Non-Fibrous, Cementitious, Stucco			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
2011090134RK-09	920111158-09	***No***	NAD (by CVES) by Kristina Martinez on 11/12/20
Location: Exterior, North Wall / Exterior Stucco			
Analyst Description: White/Grey, Heterogeneous, Non-Fibrous, Cementitious, Stucco			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
2011090134RK-10	920111158-10	***No***	NAD (by CVES) by Kristina Martinez on 11/12/20
Location: Exterior, East Wall / Exterior Stucco			
Analyst Description: White/Grey, Heterogeneous, Non-Fibrous, Cementitious, Stucco			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
2011090134RK-11	920111158-11	***Yes***	Trace (<1 %) (by CVES) by Kristina Martinez on 11/12/20
Location: Exterior, South Wall / Exterior Stucco / T-O Exterior Walls			
Analyst Description: Beige/Grey, Heterogeneous, Non-Fibrous, Cementitious, Stucco			
Asbestos Types: Chrysotile <1. %			
Other Material: Non-fibrous 100 %			

See Reporting notes on last page

PLM Bulk Asbestos Report

20-Z0046-0134; Building A (Admin / Room 3), Building B (Room 4), Building C (MPR), Building D (Rooms 10-12)

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
2011090134RK-12	920111158-12	***Yes***	Trace (<1 %) (by CVES) by Kristina Martinez on 11/12/20
Location: Exterior, West Wall - South End / Exterior Stucco			
Analyst Description: Beige/Grey, Heterogeneous, Non-Fibrous, Cementitious, Stucco **Asbestos Types:** Chrysotile <1. % **Other Material:** Non-fibrous 100 %			
2011090134RK-13	920111158-13	***Yes***	Trace (<1 %) (by CVES) by Kristina Martinez on 11/12/20
Location: Exterior, West Wall - North End / Exterior Stucco			
Analyst Description: Beige/Grey, Heterogeneous, Non-Fibrous, Cementitious, Stucco **Asbestos Types:** Chrysotile <1. % **Other Material:** Non-fibrous 100 %			
2011090134RK-14	920111158-14	***Yes***	Trace (<1 %) (by CVES) by Kristina Martinez on 11/12/20
Location: Exterior, East Wall / Exterior Stucco			
Analyst Description: Beige/Grey, Heterogeneous, Non-Fibrous, Cementitious, Stucco **Asbestos Types:** Chrysotile <1. % **Other Material:** Non-fibrous 100 %			
2011090134RK-15	920111158-15	***Yes***	Trace (<1 %) (by CVES) by Kristina Martinez on 11/12/20
Location: Exterior, East Wall - North End / Exterior Stucco			
Analyst Description: Beige/Grey, Heterogeneous, Non-Fibrous, Cementitious, Stucco **Asbestos Types:** Chrysotile <1. % **Other Material:** Cellulose 100 %			
2011090134RK-16	920111158-16	***Yes***	Trace (<1 %) (by CVES) by Kristina Martinez on 11/12/20
Location: Exterior, North Wall / Exterior Stucco			
Analyst Description: Beige/Grey, Heterogeneous, Non-Fibrous, Cementitious, Stucco **Asbestos Types:** Chrysotile <1. % **Other Material:** Non-fibrous 100 %			
2011090134RK-17	920111158-17	***Yes***	Trace (<1 %) (by CVES) by Kristina Martinez on 11/12/20
Location: Exterior, East Wall Above Covered Walkway 2 / Exterior Stucco			
Analyst Description: Beige/Grey, Heterogeneous, Non-Fibrous, Cementitious, Stucco **Asbestos Types:** Chrysotile <1. % **Other Material:** Non-fibrous 100 %			

See Reporting notes on last page

PLM Bulk Asbestos Report

20-Z0046-0134; Building A (Admin / Room 3), Building B (Room 4), Building C (MPR), Building D (Rooms 10-12)

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
2011090134RK-18	920111158-18	***No***	NAD (by CVES) by Kristina Martinez on 11/12/20
Location: Exterior, West Wall / Exterior Stucco / T-O Exterior Walls			
Analyst Description: White/Grey, Heterogeneous, Non-Fibrous, Cementitious, Stucco **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
2011090134RK-19	920111158-19	***No***	NAD (by CVES) by Kristina Martinez on 11/12/20
Location: Exterior, North Wall - West End / Exterior Stucco			
Analyst Description: White/Grey, Heterogeneous, Non-Fibrous, Cementitious, Stucco **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
2011090134RK-20	920111158-20	***No***	NAD (by CVES) by Kristina Martinez on 11/12/20
Location: Exterior, South Wall / Exterior Stucco			
Analyst Description: White/Grey, Heterogeneous, Non-Fibrous, Cementitious, Stucco **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
2011090134RK-21	920111158-21	***No***	NAD (by CVES) by Kristina Martinez on 11/12/20
Location: Exterior, East Wall / Exterior Stucco			
Analyst Description: White/Grey, Heterogeneous, Non-Fibrous, Cementitious, Stucco **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
2011090134RK-22	920111158-22	***No***	NAD (by CVES) by Kristina Martinez on 11/12/20
Location: Exterior, North Wall - East End / Exterior Stucco			
Analyst Description: White/Grey, Heterogeneous, Non-Fibrous, Cementitious, Stucco **Asbestos Types:** **Other Material:** Non-fibrous 100 %			

See Reporting notes on last page

PLM Bulk Asbestos Report

20-Z0046-0134; Building A (Admin / Room 3), Building B (Room 4), Building C (MPR), Building D (Rooms 10-12)

Reporting Notes:

Analyzed By: Kristina Martinez K. M ; Date Analyzed: 11/12/2020 11/12/20

*NAD = no asbestos detected; Detection Limit <1%; Reporting Limits: CVES = 1%, 400 Pt Ct = 0.25%, 1000 Pt Ct = 0.1%; NA = not analyzed; NA/PS = not analyzed / positive stop; NVA = No Visible Asbestos; PLM (polarized light microscopy) Bulk Asbestos Analysis by EPA 600/R-93/116, including requirements for EPA 600/M4-82-020 per 40 CFR 763 (NVLAP Lab #200346-0); Note: PLM is not consistently reliable in detecting asbestos in floor coverings and similar NOB materials. TEM is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos-containing in New York State (also see EPA Advisory for floor tile, FR 59, 146, 38970, 8/1/94). NIST Accreditation requirements mandate that this report must not be reproduced except in full with the approval of the laboratory. This PLM report relates ONLY to the items tested.

Reviewed By: _____

Please Reply To:

AmeriSci Los Angeles
24416 S. Main Street, Ste 308
Carson, California 90745
TEL: (310) 834-4868 • FAX: (310) 834-4772

FACSIMILE TELECOPY TRANSMISSION

To:	Yesenia Galeana Executive Environmental Services Corporation	**From:**	Johana Perez
		AmeriSci Job #:	920111297
Fax #:		**Subject:**	PLM 1000 point count 3 day Result
		Client Project:	20-Z0046-0134; Building A (Admin / Room 3), Building B (Room 4), Building C (MP
Email:	info@execenv.com,ygaleana@execenv.com		

Date: Friday, November 20, 2020
Time: 13:52:28
Comments:

Number of Pages: 6 (including cover sheet)

AmeriSci Los Angeles
24416 S. Main Street, Ste 308
Carson, California 90745
TEL: (310) 834-4868 • FAX: (310) 834-4772

PLM Bulk Asbestos Report

Executive Environmental Services Corpo
Attn: Yesenia Galeana
310 East Foothill Blvd.
Suite 200
Arcadia, CA 91006

Date Received 11/17/20
Date Examined 11/12/20

AmeriSci Job # 920111297
P.O. #
Page 1 **of** 2

RE: 20-Z0046-0134; Building A (Admin / Room 3), Building B (Room 4), Building C (MPR), Building D (Rooms 10-12)

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
2011090134RK-11	920111297-01	*No*	NAD [1] (by 1000 pt ct) by Johana Perez on 11/12/20
Location: Exterior, South Wall / Exterior Stucco / T-O Exterior Walls			
Analyst Description: Beige/Grey, Heterogeneous, Non-Fibrous, Cementitious, Stucco			
Asbestos Types:			
Other Material: Non-Asbestos/Inert 56.6 %			
2011090134RK-12	920111297-02	*No*	NAD [1] (by 1000 pt ct) by Johana Perez on 11/12/20
Location: Exterior, West Wall - South End / Exterior Stucco			
Analyst Description: Beige/Grey, Heterogeneous, Non-Fibrous, Cementitious, Stucco			
Asbestos Types:			
Other Material: Non-Asbestos/Inert 50.9 %			
2011090134RK-13	920111297-03	*No*	NAD [1] (by 1000 pt ct) by Johana Perez on 11/12/20
Location: Exterior, West Wall - North End / Exterior Stucco			
Analyst Description: Beige/Grey, Heterogeneous, Non-Fibrous, Cementitious, Stucco			
Asbestos Types:			
Other Material: Non-Asbestos/Inert 41.6 %			
2011090134RK-14	920111297-04	*Yes*	Trace (<0.1 % pc) [1] (by 1000 pt ct) by Johana Perez on 11/12/20
Location: Exterior, East Wall / Exterior Stucco			
Analyst Description: Beige/Grey, Heterogeneous, Non-Fibrous, Cementitious, Stucco			
Asbestos Types: Chrysotile <0.1 % pc			
Other Material: Non-Asbestos/Inert 21.8 %			
2011090134RK-15	920111297-05	*Yes*	Trace (<0.1 % pc) [1] (by 1000 pt ct) by Johana Perez on 11/12/20
Location: Exterior, East Wall - North End / Exterior Stucco			
Analyst Description: Beige/Grey, Heterogeneous, Non-Fibrous, Cementitious, Stucco			
Asbestos Types: Chrysotile <0.1 % pc			
Other Material: Non-Asbestos/Inert 46.1 %			

See Reporting notes on last page

PLM Bulk Asbestos Report

20-Z0046-0134; Building A (Admin / Room 3), Building B (Room 4), Building C (MPR), Building D (Rooms 10-12)

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
2011090134RK-16	920111297-06	***Yes***	Trace (<0.1 % pc) [1] (by 1000 pt ct) by Johana Perez on 11/12/20
Location: Exterior, North Wall / Exterior Stucco			
Analyst Description: Beige/Grey, Heterogeneous, Non-Fibrous, Cementitious, Stucco **Asbestos Types:** Chrysotile <0.1 % pc **Other Material:** Non-Asbestos/Inert 33.9 %			
2011090134RK-17	920111297-07	***Yes***	Trace (<0.1 % pc) [1] (by 1000 pt ct) by Johana Perez on 11/12/20
Location: Exterior, East Wall Above Covered Walkway 2 / Exterior Stucco			
Analyst Description: Beige/Grey, Heterogeneous, Non-Fibrous, Cementitious, Stucco **Asbestos Types:** Chrysotile <0.1 % pc **Other Material:** Non-Asbestos/Inert 46.6 %			

Reporting Notes:

(1) EPA 1000 Point Count Analysis performed on inert residue remaining after 480C heat and HCl acid treatments.

Analyzed By: Johana Perez _____; Date Analyzed: 11/12/2020 11·20·20

*NAD = no asbestos detected; Detection Limit <1%; Reporting Limits: CVES = 1%, 400 Pt Ct = 0.25%, 1000 Pt Ct = 0.1%; NA = not analyzed; NA/PS = not analyzed / positive stop; NVA = No Visible Asbestos; PLM (polarized light microscopy) Bulk Asbestos Analysis by EPA 600/R-93/116, including requirements for EPA 600/M4-82-020 per 40 CFR 763 (NVLAP Lab #200346-0); Note: PLM is not consistently reliable in detecting asbestos in floor coverings and similar NOB materials. TEM is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos-containing in New York State (also see EPA Advisory for floor tile, FR 59, 146, 38970, 8/1/94). NIST Accreditation requirements mandate that this report must not be reproduced except in full with the approval of the laboratory. This PLM report relates ONLY to the items tested.

Reviewed By: _____

a20111158

EXECUTIVE ENVIRONMENTAL
HEALTH & SAFETY SIMPLIFIED

Industrial Hygiene Laboratory Submittal
Asbestos -- PLM

Originating Office
☑ 310 E. Foothill Blvd., Suite 200
Arcadia, CA 91006
Phone: 626.441.7050
Fax: 626.441.0016

Lab Submitted to:
☑ AmeriSci
☐ EMLab (Glendale)
☐ LA Testing

☐ **Routine** (5 Working Days)

☐ **RUSH** (surcharges may apply) Circle One: 6 hours | 24 hours | 48 hours | 3 to 5 days

Project #:	Sampled by:	Site Zip Code:	Sample Date:	
20-Z0046-0134	Tim Galeana/Rhys Kuzmic	91770	11/09/2020	Page 1 of 4

Building Name: Building A (Admin / Room 3)

The receiving Laboratory is required to complete the following:

1. All invoices are to be sent to: 310 E. Foothill Blvd., Suite 200, Arcadia, CA 91006 **with** a copy of the lab report.
2. Analyze all samples by PLM by EPA 600/R-93/116.
3. Stop analysis of homogeneous groups at first positive that is greater than or equal to 1.0%
4. All lab reports and invoices are to contain the Project Number from above.
5. Unsigned and reports marked draft are unacceptable.
6. Report to the attention of: Yesenia Galeana, Phone: (562) 889-1327

Optional Items to be completed by the laboratory (if check marked): ☑ Email Report to: ☑ Info@execenv.com ☑ Other: ygaleana@execenv.com;

☑ US Mail Report to: ☑ Originating office check marked above ☐ Other: ☐ Alternate billing address:

Prefix: 20110901 34RK

Sample No.:	Sample Location – Include Room information where appropriate	Material Description	Homogeneous Location	No.	Quantity	Percent Damaged
-01	Exterior, West Wall	Exterior Stucco	T-O exterior Walls	1	4,500SF	<1
-02	Exterior, South Wall	↓		↓	↓	↓
-03	Exterior, east Wall					
-04	Exterior, east Wall at breezeway					
-05	Exterior, north Wall					

Notes:

Released By, Date, & Time:	Received By, Date, & Time:	Released By, Date, & Time:
Rhys Kuz, 11/10/2020 12:15PM	11/10/20 12:15	

a20111158

EXECUTIVE ENVIRONMENTAL
HEALTH & SAFETY SIMPLIFIED

Industrial Hygiene Laboratory Submittal
Asbestos -- PLM

Originating Office
☑ 310 E. Foothill Blvd., Suite 200
Arcadia, CA 91006
Phone: 626.441.7050
Fax: 626.441.0016

Lab Submitted to:
☑ AmeriSci
☐ EMLab (Glendale)
☐ LA Testing

☐ **Routine** (5 Working Days) ☐ **RUSH** (surcharges may apply) Circle One: 6 hours 24 hours 48 hours (3 to 5 days)

Project #:	Sampled by:	Site Zip Code:	Sample Date:	
20-Z0046-0134	Tim Galeana/Rhys Kuzmic	91770	11/09/2020	Page 2 of 4

Building Name: Buildings B (Room 4)

The receiving Laboratory is required to complete the following:
1. All invoices are to be sent to: 310 E. Foothill Blvd., Suite 200, Arcadia, CA 91006 **with** a copy of the lab report.
2. Analyze all samples by PLM by EPA 600/R-93/116.
3. Stop analysis of homogeneous groups at first positive that is greater than or equal to 1.0%
4. All lab reports and invoices are to contain the Project Number from above.
5. Unsigned and reports marked draft are unacceptable.
6. Report to the attention of: Yesenia Galeana, Phone: (562) 889-1327

Optional Items to be completed by the laboratory (if check marked): ☑ Email Report to: ☑ Info@execenv.com ☑ Other: ygaleana@execenv.com;

☑ US Mail Report to: ☑ Originating office check marked above ☐ Other: ☐ Alternate billing address:

Prefix: 20110901342RK

Sample No.:	Sample Location – Include Room information where appropriate	Material Description	Homogeneous Location	No.	Quantity	Percent Damaged
-06	Exterior, Breezeway ceilings SW	Exterior stucco	FO exterior walls and breezeway	2	2,700 SF	< 1
-07	Exterior, south wall	↓		↓	↓	↓
-08	Exterior, west wall					
-09	Exterior, north wall					
-10	Exterior, east wall					

Notes:

Released By, Date, & Time:	Received By, Date, & Time:	Released By, Date, & Time:
Rhys Kuzmic 11/10/2020 12:15PM	11/10/20 12:15	

9201111158

Industrial Hygiene Laboratory Submittal
Asbestos -- PLM

EXECUTIVE ENVIRONMENTAL
HEALTH & SAFETY SIMPLIFIED

Originating Office
☑ 310 E. Foothill Blvd., Suite 200
Arcadia, CA 91006
Phone: 626.441.7050
Fax: 626.441.0016

Lab Submitted to:
☑ AmeriSci
☐ EMLab (Glendale)
☐ LA Testing

☐ Routine (5 Working Days) | ☐ RUSH (surcharges may apply) Circle One: 6 hours | 24 hours | 48 hours | 3 to 5 days

Project #:	Sampled by:	Site Zip Code:	Sample Date:	
20-Z0046-0134	Tim Galeana/Rhys Kuzmic	91770	11/09/2020	Page 3 of 4

Building Name: Building C (MPR)

The receiving Laboratory is required to complete the following:

1. All invoices are to be sent to: 310 E. Foothill Blvd., Suite 200, Arcadia, CA 91006 **with** a copy of the lab report.
2. Analyze all samples by PLM by EPA 600/R-93/116.
3. Stop analysis of homogeneous groups at first positive that is greater than or equal to 1.0%
4. All lab reports and invoices are to contain the Project Number from above.
5. Unsigned and reports marked draft are unacceptable.
6. Report to the attention of: Yesenia Galeana, Phone: (562) 889-1327

Optional Items to be completed by the laboratory (if check marked): ☑ Email Report to: ☑ Info@execenv.com ☑ Other: ygaleana@execenv.com;

☑ US Mail Report to: ☑ Originating office check marked above ☐ Other: ☐ Alternate billing address:

Prefix: 20110901324RK

Sample No.:	Sample Location – Include Room information where appropriate	Material Description	Homogeneous Location	No.	Quantity	Percent Damaged
-11	Exterior, south wall	Exterior stucco	FO exterior walls	3	6,400SF	<1
-12	Exterior, west wall - south end	↓		↓	↓	↓
-13	Exterior, west wall - north end					
-14	Exterior, east wall					
-15	Exterior, east wall - north end					
-16	Exterior, north wall					
-17	Exterior, east wall above covered walkway 2					

Notes:

Released By, Date, & Time:	Received By, Date, & Time:	Released By, Date, & Time:
Rhys Kuzmic 11/10/2020 12:15PM	[signature] 11/10/2020 12:15	

Rev. 1/19

Form: AL-006PLM

9201111158

EXECUTIVE ENVIRONMENTAL
HEALTH & SAFETY SIMPLIFIED

Industrial Hygiene Laboratory Submittal
Asbestos -- PLM

Originating Office
☑ 310 E. Foothill Blvd., Suite 200
Arcadia, CA 91006
Phone: 626.441.7050
Fax: 626.441.0016

Lab Submitted to:
☑ AmeriSci
☐ EMLab (Glendale)
☐ LA Testing

☐ **Routine** (5 Working Days)
☐ **RUSH** (surcharges may apply) Circle One: 6 hours | 24 hours | 48 hours | (3 to 5 days)

Project #:	Sampled by:	Site Zip Code:	Sample Date:	
20-Z0046-0134	Tim Galeana/Rhys Kuzmic	91770	11/09/2020	Page 4 of 4

Building Name: Building D (Rooms 10-12)

The receiving Laboratory is required to complete the following:
1. All invoices are to be sent to: 310 E. Foothill Blvd., Suite 200, Arcadia, CA 91006 **with** a copy of the lab report.
2. Analyze all samples by PLM by EPA 600/R-93/116.
3. Stop analysis of homogeneous groups at first positive that is greater than or equal to 1.0%
4. All lab reports and invoices are to contain the Project Number from above.
5. Unsigned and reports marked draft are unacceptable.
6. Report to the attention of: Yesenia Galeana, Phone: (562) 889-1327

Optional Items to be completed by the laboratory (if check marked): ☑ Email Report to: ☑ Info@execenv.com ☑ Other: ygaleana@execenv.com;

☑ US Mail Report to: ☑ Originating office check marked above ☐ Other: ☐ Alternate billing address:

Prefix: 201119013YRK

Sample No.:	Sample Location – Include Room information where appropriate	Material Description	Homogeneous Location	No.	Quantity	Percent Damaged
-18	Exterior, West Wall	Exterior stucco	T-O exterior Walls	4	3,000 SF	<1
-19	Exterior, north wall - west end	↓		↓	↓	↓
-20	Exterior, South Wall					
-21	Exterior, east wall					
-22	Exterior, north wall - east end					

Notes:

Released By, Date, & Time:	Received By, Date, & Time::	Released By, Date, & Time:
Rhys Kuz 11/10/2020 12:15PM	11/10/20 @ 12:15	

Rev. 1/19

Form: AL-006PLM

Please Reply To:

AmeriSci Los Angeles
24416 S. Main Street, Ste 308
Carson, California 90745
TEL: (310) 834-4868 • FAX: (310) 834-4772

FACSIMILE TELECOPY TRANSMISSION

To:	Yesenia Galeana Executive Environmental Services Corporation	**From:**	Johana Perez
		AmeriSci Job #:	920111262
Fax #:		**Subject:**	PLM 5 day Results
		Client Project:	20-Z0046-0134; Building D (Room 13-16), Building E (Room 17-19), Building F (Ro
Email:	info@execenv.com,ygaleana@execenv.com		

Date: Wednesday, November 18, 2020
Time: 09:55:45
Comments:

Number of Pages: 23
(including cover sheet)

AmeriSci Los Angeles
24416 S. Main Street, Ste 308
Carson, California 90745
TEL: (310) 834-4868 • FAX: (310) 834-4772

PLM Bulk Asbestos Report

Executive Environmental Services Corpo
Attn: Yesenia Galeana
310 East Foothill Blvd.
Suite 200
Arcadia, CA 91006

Date Received 11/13/20
Date Examined 11/17/20

AmeriSci Job # 920111262
P.O. #
Page 1 **of** 11

RE: 20-Z0046-0134; Building D (Room 13-16), Building E (Room 17-19), Building F (Rooms 20-23), Building H (Rooms 5-9), Restroom Building 1, Restroom Building 2, Covered Walkways, Campus

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
2011120134RK-23	920111262-01	*No*	NAD (by CVES) by Johana Perez on 11/17/20
Location: Exerior, South Wall / Exterior Stucco / T-O Exterior Walls And West Breezeway			
Analyst Description: White/Grey, Homogeneous, Non-Fibrous, Cementitious, Stucco			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
2011120134RK-24	920111262-02	*No*	NAD (by CVES) by Johana Perez on 11/17/20
Location: Exerior, East Wall / Exterior Stucco			
Analyst Description: White/Grey, Homogeneous, Non-Fibrous, Cementitious, Stucco			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
2011120134RK-25	920111262-03	*No*	NAD (by CVES) by Johana Perez on 11/17/20
Location: Exerior, North Wall / Exterior Stucco			
Analyst Description: White/Grey, Homogeneous, Non-Fibrous, Cementitious, Stucco			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
2011120134RK-26	920111262-04	*No*	NAD (by CVES) by Johana Perez on 11/17/20
Location: Exerior, West Wall / Exterior Stucco			
Analyst Description: White/Grey, Homogeneous, Non-Fibrous, Cementitious, Stucco			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
2011120134RK-27	920111262-05	*No*	NAD (by CVES) by Johana Perez on 11/17/20
Location: Exerior, West Breezeway Ceiling - SE / Exterior Stucco			
Analyst Description: White/Grey, Homogeneous, Non-Fibrous, Cementitious, Stucco			
Asbestos Types:			
Other Material: Non-fibrous 100 %			

See Reporting notes on last page

PLM Bulk Asbestos Report

20-Z0046-0134; Building D (Room 13-16), Building E (Room 17-19), Building F (Rooms 20-23), Building H (Rooms 5-9), Restroom Building 1, Restroom Building 2, Covered Walkways, Campus

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
2011120134RK-28	920111262-06	***No***	NAD (by CVES) by Johana Perez on 11/17/20
Location: Exerior, North Wall - West End / Exterior Stucco / T-O Exterior Walls			
Analyst Description: White/Grey, Homogeneous, Non-Fibrous, Cementitious, Stucco **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
2011120134RK-29	920111262-07	***No***	NAD (by CVES) by Johana Perez on 11/17/20
Location: Exerior, West Wall / Exterior Stucco			
Analyst Description: White/Grey, Homogeneous, Non-Fibrous, Cementitious, Stucco **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
2011120134RK-30	920111262-08	***No***	NAD (by CVES) by Johana Perez on 11/17/20
Location: Exerior, South Wall / Exterior Stucco			
Analyst Description: White/Grey, Homogeneous, Non-Fibrous, Cementitious, Stucco **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
2011120134RK-31	920111262-09	***No***	NAD (by CVES) by Johana Perez on 11/17/20
Location: Exerior, East Wall / Exterior Stucco			
Analyst Description: White/Grey, Homogeneous, Non-Fibrous, Cementitious, Stucco **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
2011120134RK-32	920111262-10	***No***	NAD (by CVES) by Johana Perez on 11/17/20
Location: Exerior, North Wall - East End / Exterior Stucco			
Analyst Description: White/Grey, Homogeneous, Non-Fibrous, Cementitious, Stucco **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
2011120134RK-33	920111262-11	***No***	NAD (by CVES) by Johana Perez on 11/17/20
Location: Exerior, South Wall / Exterior Stucco / T-O Exterior Walls And West Breezeway			
Analyst Description: White/Grey, Homogeneous, Non-Fibrous, Cementitious, Stucco **Asbestos Types:** **Other Material:** Non-fibrous 100 %			

See Reporting notes on last page

PLM Bulk Asbestos Report

20-Z0046-0134; Building D (Room 13-16), Building E (Room 17-19), Building F (Rooms 20-23), Building H (Rooms 5-9), Restroom Building 1, Restroom Building 2, Covered Walkways, Campus

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
2011120134RK-34	920111262-12	*No*	NAD (by CVES) by Johana Perez on 11/17/20
Location: Exerior, East Wall / Exterior Stucco			
Analyst Description: White/Grey, Homogeneous, Non-Fibrous, Cementitious, Stucco			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
2011120134RK-35	920111262-13	*No*	NAD (by CVES) by Johana Perez on 11/17/20
Location: Exerior, North Wall / Exterior Stucco			
Analyst Description: White/Grey, Homogeneous, Non-Fibrous, Cementitious, Stucco			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
2011120134RK-36	920111262-14	*No*	NAD (by CVES) by Johana Perez on 11/17/20
Location: Exerior, West Wall / Exterior Stucco			
Analyst Description: White/Grey, Homogeneous, Non-Fibrous, Cementitious, Stucco			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
2011120134RK-37	920111262-15	*No*	NAD (by CVES) by Johana Perez on 11/17/20
Location: Exerior, West Breezeway Ceiling - SE / Exterior Stucco			
Analyst Description: White/Grey, Homogeneous, Non-Fibrous, Cementitious, Stucco			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
2011120134RK-38	920111262-16	*No*	NAD (by CVES) by Johana Perez on 11/17/20
Location: Exerior, South Wall / Exterior Stucco / T-O Exterior Walls (Select Walls Some Are Cinderblock) And Overhang			
Analyst Description: Grey, Homogeneous, Non-Fibrous, Cementitious, Stucco			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
2011120134RK-39	920111262-17	*No*	NAD (by CVES) by Johana Perez on 11/17/20
Location: Exerior, West Wall / Exterior Stucco			
Analyst Description: Grey, Homogeneous, Non-Fibrous, Cementitious, Stucco			
Asbestos Types:			
Other Material: Non-fibrous 100 %			

See Reporting notes on last page

PLM Bulk Asbestos Report

20-Z0046-0134; Building D (Room 13-16), Building E (Room 17-19), Building F (Rooms 20-23), Building H (Rooms 5-9), Restroom Building 1, Restroom Building 2, Covered Walkways, Campus

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
2011120134RK-40	920111262-18	***Yes***	Trace (<1 %) (by CVES) by Johana Perez on 11/17/20
Location: Exerior, North Wall / Exterior Stucco			
Analyst Description: Grey, Homogeneous, Non-Fibrous, Cementitious, Stucco **Asbestos Types:** Chrysotile <1. % **Other Material:** Non-fibrous 100 %			
2011120134RK-41	920111262-19	***Yes***	Trace (<1 %) (by CVES) by Johana Perez on 11/17/20
Location: Exerior, East Wall / Exterior Stucco			
Analyst Description: Grey, Homogeneous, Non-Fibrous, Cementitious, Stucco **Asbestos Types:** Chrysotile <1. % **Other Material:** Non-fibrous 100 %			
2011120134RK-42	920111262-20	***Yes***	Trace (<1 %) (by CVES) by Johana Perez on 11/17/20
Location: Exerior, Overhang - SE / Exterior Stucco			
Analyst Description: Grey, Homogeneous, Non-Fibrous, Cementitious, Stucco **Asbestos Types:** Chrysotile <1. % **Other Material:** Non-fibrous 100 %			
2011120134RK-43	920111262-21	***No***	NAD (by CVES) by Johana Perez on 11/17/20
Location: Exerior, South Wall / Exterior Stucco / T-O Exterior Walls And West Breezeway			
Analyst Description: Grey, Homogeneous, Non-Fibrous, Cementitious, Stucco **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
2011120134RK-44	920111262-22	***No***	NAD (by CVES) by Johana Perez on 11/17/20
Location: Exerior, North Wall / Exterior Stucco			
Analyst Description: Grey, Homogeneous, Non-Fibrous, Cementitious, Stucco **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
2011120134RK-45	920111262-23	***No***	NAD (by CVES) by Johana Perez on 11/17/20
Location: Exerior, West Wall / Exterior Stucco			
Analyst Description: Grey, Homogeneous, Non-Fibrous, Cementitious, Stucco **Asbestos Types:** **Other Material:** Non-fibrous 100 %			

See Reporting notes on last page

PLM Bulk Asbestos Report

20-Z0046-0134; Building D (Room 13-16), Building E (Room 17-19), Building F (Rooms 20-23), Building H (Rooms 5-9), Restroom Building 1, Restroom Building 2, Covered Walkways, Campus

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
2011120134RK-46	920111262-24	***No***	NAD (by CVES) by Johana Perez on 11/17/20
Location: Exerior, East Wall / Exterior Stucco			
Analyst Description: Grey, Heterogeneous, Non-Fibrous, Cementitious, Stucco **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
2011120134RK-47	920111262-25	***No***	NAD (by CVES) by Johana Perez on 11/17/20
Location: Exerior, West Breezeway Ceiling - SE / Exterior Stucco			
Analyst Description: Grey, Homogeneous, Non-Fibrous, Cementitious, Stucco **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
2011120134RK-48	920111262-26	***No***	NAD (by CVES) by Johana Perez on 11/17/20
Location: Exerior, North Wall / Exterior Stucco / T-O Exterior Walls And West Breezeway			
Analyst Description: Grey, Homogeneous, Non-Fibrous, Cementitious, Stucco **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
2011120134RK-49	920111262-27	***No***	NAD (by CVES) by Johana Perez on 11/17/20
Location: Exerior, South Wall / Exterior Stucco			
Analyst Description: Grey, Homogeneous, Non-Fibrous, Cementitious, Stucco **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
2011120134RK-50	920111262-28	***No***	NAD (by CVES) by Johana Perez on 11/17/20
Location: Exerior, East Wall / Exterior Stucco			
Analyst Description: Grey, Homogeneous, Non-Fibrous, Cementitious, Stucco **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
2011120134RK-51	920111262-29	***No***	NAD (by CVES) by Johana Perez on 11/17/20
Location: Exerior, West Wall / Exterior Stucco			
Analyst Description: Grey, Homogeneous, Non-Fibrous, Cementitious, Stucco **Asbestos Types:** **Other Material:** Non-fibrous 100 %			

See Reporting notes on last page

PLM Bulk Asbestos Report

20-Z0046-0134; Building D (Room 13-16), Building E (Room 17-19), Building F (Rooms 20-23), Building H (Rooms 5-9), Restroom Building 1, Restroom Building 2, Covered Walkways, Campus

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
2011120134RK-52	920111262-30	*No*	NAD (by CVES) by Johana Perez on 11/17/20
Location: Exerior, West Breezeway Ceiling - SE / Exterior Stucco			
Analyst Description: Grey, Homogeneous, Non-Fibrous, Cementitious, Stucco			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
2011120134RK-53	920111262-31	*No*	NAD (by CVES) by Johana Perez on 11/17/20
Location: Covered Walkway 7 Exterior, East Wall North Side / Exterior Stucco / Covered Walkway 7 Walls			
Analyst Description: Grey, Homogeneous, Non-Fibrous, Cementitious, Stucco			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
2011120134RK-54	920111262-32	*No*	NAD (by CVES) by Johana Perez on 11/17/20
Location: Covered Walkway 7 Exterior, South Side Wall / Exterior Stucco			
Analyst Description: Grey, Homogeneous, Non-Fibrous, Cementitious, Stucco			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
2011120134RK-55	920111262-33	*No*	NAD (by CVES) by Johana Perez on 11/17/20
Location: Covered Walkway 7 Exterior, West Wall South Side / Exterior Stucco			
Analyst Description: Grey, Homogeneous, Non-Fibrous, Cementitious, Stucco			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
2011120134RK-56	920111262-34	*No*	NAD (by CVES) by Johana Perez on 11/17/20
Location: Covered Walkway 10 Exterior, East Wall East Side / Exterior Stucco / Covered Walkway 10 Walls			
Analyst Description: Grey, Homogeneous, Non-Fibrous, Cementitious, Stucco			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
2011120134RK-57	920111262-35	*No*	NAD (by CVES) by Johana Perez on 11/17/20
Location: Covered Walkway 10 Exterior, East Wall South Side / Exterior Stucco			
Analyst Description: Grey, Homogeneous, Non-Fibrous, Cementitious, Stucco			
Asbestos Types:			
Other Material: Non-fibrous 100 %			

See Reporting notes on last page

PLM Bulk Asbestos Report

20-Z0046-0134; Building D (Room 13-16), Building E (Room 17-19), Building F (Rooms 20-23), Building H (Rooms 5-9), Restroom Building 1, Restroom Building 2, Covered Walkways, Campus

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
2011120134RK-58	920111262-36	*No*	NAD (by CVES) by Johana Perez on 11/17/20
Location: Covered Walkway 10 Exterior, West Wall North Side / Exterior Stucco			
Analyst Description: Grey, Homogeneous, Non-Fibrous, Cementitious, Stucco **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
2011120134RK-59	920111262-37	*No*	NAD (by CVES) by Johana Perez on 11/18/20
Location: Kindergarten Playground, SE / Asphalt Paving / Kindergarten Playground			
Analyst Description: Black, Homogeneous, Non-Fibrous, Asphalt **Asbestos Types:** **Other Material:** Cellulose 3 %, Non-fibrous 97 %			
2011120134RK-60	920111262-38	*No*	NAD (by CVES) by Johana Perez on 11/18/20
Location: Kindergarten Playground, SW / Asphalt Paving			
Analyst Description: Black, Homogeneous, Non-Fibrous, Asphalt **Asbestos Types:** **Other Material:** Cellulose 3 %, Non-fibrous 97 %			
2011120134RK-61	920111262-39	*No*	NAD (by CVES) by Johana Perez on 11/18/20
Location: Kindergarten Playground, North / Asphalt Paving			
Analyst Description: Black, Homogeneous, Non-Fibrous, Asphalt **Asbestos Types:** **Other Material:** Cellulose 3 %, Non-fibrous 97 %			
2011120134RK-62	920111262-40	*No*	NAD (by CVES) by Johana Perez on 11/18/20
Location: South Playground, SE / Asphalt Paving / South Playground			
Analyst Description: Black, Homogeneous, Non-Fibrous, Asphalt **Asbestos Types:** **Other Material:** Cellulose 3 %, Non-fibrous 97 %			
2011120134RK-63	920111262-41	*No*	NAD (by CVES) by Johana Perez on 11/18/20
Location: South Playground, West Of Portable 25 / Asphalt Paving			
Analyst Description: Black, Homogeneous, Non-Fibrous, Asphalt **Asbestos Types:** **Other Material:** Cellulose 3 %, Non-fibrous 97 %			

See Reporting notes on last page

PLM Bulk Asbestos Report

20-Z0046-0134; Building D (Room 13-16), Building E (Room 17-19), Building F (Rooms 20-23), Building H (Rooms 5-9), Restroom Building 1, Restroom Building 2, Covered Walkways, Campus

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
2011120134RK-64	920111262-42	*No*	NAD (by CVES) by Johana Perez on 11/18/20
Location: South Playground, Near Center / Asphalt Paving			
Analyst Description: Black, Homogeneous, Non-Fibrous, Asphalt **Asbestos Types:** **Other Material:** Cellulose 3 %, Non-fibrous 97 %			
2011120134RK-65	920111262-43	*No*	NAD (by CVES) by Johana Perez on 11/18/20
Location: South Playground, SW / Asphalt Paving			
Analyst Description: Black, Homogeneous, Non-Fibrous, Asphalt **Asbestos Types:** **Other Material:** Cellulose 3 %, Non-fibrous 97 %			
2011120134RK-66	920111262-44	*No*	NAD (by CVES) by Johana Perez on 11/18/20
Location: South Playground, NW / Asphalt Paving			
Analyst Description: Black, Homogeneous, Non-Fibrous, Asphalt **Asbestos Types:** **Other Material:** Cellulose 3 %, Non-fibrous 97 %			
2011120134RK-67	920111262-45	*No*	NAD (by CVES) by Johana Perez on 11/18/20
Location: Driveway To South Parking Lot, NE / Asphalt Paving / Driveway To South Parking Lot			
Analyst Description: Black, Homogeneous, Non-Fibrous, Asphalt **Asbestos Types:** **Other Material:** Cellulose 3 %, Non-fibrous 97 %			
2011120134RK-68	920111262-46	*No*	NAD (by CVES) by Johana Perez on 11/18/20
Location: Driveway To South Parking Lot, Near Center / Asphalt Paving			
Analyst Description: Black, Homogeneous, Non-Fibrous, Asphalt **Asbestos Types:** **Other Material:** Cellulose 3 %, Non-fibrous 97 %			
2011120134RK-69	920111262-47	*No*	NAD (by CVES) by Johana Perez on 11/18/20
Location: Driveway To South Parking Lot, South / Asphalt Paving			
Analyst Description: Black, Homogeneous, Non-Fibrous, Asphalt **Asbestos Types:** **Other Material:** Cellulose 3 %, Non-fibrous 97 %			

See Reporting notes on last page

PLM Bulk Asbestos Report

20-Z0046-0134; Building D (Room 13-16), Building E (Room 17-19), Building F (Rooms 20-23), Building H (Rooms 5-9), Restroom Building 1, Restroom Building 2, Covered Walkways, Campus

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
2011120134RK-70	920111262-48	***No***	NAD
Location: School Sign At South Parking Lot, On Support Post / Texture Coat On Metal / School Sign At South Parking Lot			(by CVES) by Johana Perez on 11/18/20
Analyst Description: Black, Homogeneous, Non-Fibrous, Asphalt			
Asbestos Types:			
Other Material: Cellulose 3 %, Non-fibrous 97 %			
2011120134RK-71	920111262-49	***No***	NAD
Location: School Sign At South Parking Lot, On Support Post / Texture Coat On Metal			(by CVES) by Johana Perez on 11/18/20
Analyst Description: Off-White\Red, Homogeneous, Non-Fibrous, Texture			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
2011120134RK-72	920111262-50	***No***	NAD
Location: School Sign At South Parking Lot, On Support Post / Texture Coat On Metal			(by CVES) by Johana Perez on 11/18/20
Analyst Description: Off-White\Red, Homogeneous, Non-Fibrous, Texture			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
2011120134RK-73	920111262-51	***No***	NAD
Location: South Parking Lot, East / Asphalt Paving / South Parking Lot			(by CVES) by Johana Perez on 11/18/20
Analyst Description: Black, Homogeneous, Non-Fibrous, Asphalt			
Asbestos Types:			
Other Material: Cellulose 3 %, Non-fibrous 97 %			
2011120134RK-74	920111262-52	***No***	NAD
Location: South Parking Lot, East / Asphalt Paving			(by CVES) by Johana Perez on 11/18/20
Analyst Description: Black, Homogeneous, Non-Fibrous, Asphalt			
Asbestos Types:			
Other Material: Cellulose 3 %, Non-fibrous 97 %			
2011120134RK-75	920111262-53	***No***	NAD
Location: South Parking Lot, Center / Asphalt Paving			(by CVES) by Johana Perez on 11/18/20
Analyst Description: Black, Homogeneous, Non-Fibrous, Asphalt			
Asbestos Types:			
Other Material: Cellulose 3 %, Non-fibrous 97 %			

See Reporting notes on last page

PLM Bulk Asbestos Report

20-Z0046-0134; Building D (Room 13-16), Building E (Room 17-19), Building F (Rooms 20-23), Building H (Rooms 5-9), Restroom Building 1, Restroom Building 2, Covered Walkways, Campus

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
2011120134RK-76	920111262-54	***No***	NAD
Location: South Parking Lot, Center West / Asphalt Paving			(by CVES) by Johana Perez on 11/18/20
Analyst Description: Black, Homogeneous, Non-Fibrous, Asphalt			
Asbestos Types:			
Other Material: Cellulose 3 %, Non-fibrous 97 %			
2011120134RK-77	920111262-55	***No***	NAD
Location: South Parking Lot, West / Asphalt Paving			(by CVES) by Johana Perez on 11/18/20
Analyst Description: Black, Homogeneous, Non-Fibrous, Asphalt			
Asbestos Types:			
Other Material: Cellulose 3 %, Non-fibrous 97 %			
2011120134RK-78	920111262-56	***No***	NAD
Location: School Sign North By Building A (Admin Room 3), On Support Post / Texture Coat On Metal / School Sign North By Building A (Admin Room 3)			(by CVES) by Johana Perez on 11/18/20
Analyst Description: Off-White\Red, Homogeneous, Non-Fibrous, Texture			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
2011120134RK-79	920111262-57	***No***	NAD
Location: School Sign North By Building A (Admin Room 3), On Support Post / Texture Coat On Metal			(by CVES) by Johana Perez on 11/17/20
Analyst Description: Off-White/Red, Homogeneous, Non-Fibrous, Texture			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
2011120134RK-80	920111262-58	***No***	NAD
Location: School Sign North By Building A (Admin Room 3), On Support Post / Texture Coat On Metal			(by CVES) by Johana Perez on 11/17/20
Analyst Description: Off-White\Red, Homogeneous, Non-Fibrous, Texture			
Asbestos Types:			
Other Material: Non-fibrous 100 %			

See Reporting notes on last page

PLM Bulk Asbestos Report

20-Z0046-0134; Building D (Room 13-16), Building E (Room 17-19), Building F (Rooms 20-23), Building H (Rooms 5-9), Restroom Building 1, Restroom Building 2, Covered Walkways, Campus

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Reporting Notes:

Analyzed By: Johana Perez _____; Date Analyzed: 11/17/2020 11·17·20

*NAD = no asbestos detected; Detection Limit <1%; Reporting Limits: CVES = 1%, 400 Pt Ct = 0.25%, 1000 Pt Ct = 0.1%; NA = not analyzed; NA/PS = not analyzed / positive stop; NVA = No Visible Asbestos; PLM (polarized light microscopy) Bulk Asbestos Analysis by EPA 600/R-93/116, including requirements for EPA 600/M4-82-020 per 40 CFR 763 (NVLAP Lab #200346-0); Note: PLM is not consistently reliable in detecting asbestos in floor coverings and similar NOB materials. TEM is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos-containing in New York State (also see EPA Advisory for floor tile, FR 59, 146, 38970, 8/1/94). NIST Accreditation requirements mandate that this report must not be reproduced except in full with the approval of the laboratory. This PLM report relates ONLY to the items tested.

Reviewed By: _____

Please Reply To:

AmeriSci Los Angeles
24416 S. Main Street, Ste 308
Carson, California 90745
TEL: (310) 834-4868 • FAX: (310) 834-4772

FACSIMILE TELECOPY TRANSMISSION

To:	Yesenia Galeana Executive Environmental Services Corporation	**From:**	Johana Perez
		AmeriSci Job #:	920111329
Fax #:		**Subject:**	PLM 1000 point count 48 hour Res
		Client Project:	20-Z0046-0134; Building D (Room 13-16), Building E (Room 17-19), Building F (Ro
Email:	info@execenv.com,ygaleana@execenv.com		

Date: Friday, November 20, 2020
Time: 10:02:03
Comments:

Number of Pages: _____
(including cover sheet)

AmeriSci Los Angeles
24416 S. Main Street, Ste 308
Carson, California 90745
TEL: (310) 834-4868 • FAX: (310) 834-4772

PLM Bulk Asbestos Report

Executive Environmental Services Corpo
Attn: Yesenia Galeana
310 East Foothill Blvd.
Suite 200
Arcadia, CA 91006

Date Received 11/18/20
Date Examined 11/20/20

AmeriSci Job # 920111329
P.O. #
Page 1 **of** 1

RE: 20-Z0046-0134; Building D (Room 13-16), Building E (Room 17-19), Building F (Rooms 20-23), Building H (Rooms 5-9), Restroom Building 1, Restroom Building 2, Covered Walkways, Campus

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
2011120134RK-40 01 **Location:** Exerior, North Wall / Exterior Stucco	920111329-01	***Yes***	Trace (<0.1 % pc) [1] (by 1000 pt ct) by Johana Perez on 11/20/20
Analyst Description: Grey, Homogeneous, Non-Fibrous, Cementitious, Stucco **Asbestos Types:** Chrysotile <0.1 % pc **Other Material:** Non-Asbestos/Inert 66.9 %			
2011120134RK-41 01 **Location:** Exerior, East Wall / Exterior Stucco	920111329-02	***Yes***	Trace (<0.1 % pc) [1] (by 1000 pt ct) by Johana Perez on 11/20/20
Analyst Description: Grey, Homogeneous, Non-Fibrous, Cementitious, Stucco **Asbestos Types:** Chrysotile <0.1 % pc **Other Material:** Non-Asbestos/Inert 75.4 %			
2011120134RK-42 01 **Location:** Exerior, Overhang - SE / Exterior Stucco	920111329-03	***Yes***	Trace (<0.1 % pc) [1] (by 1000 pt ct) by Johana Perez on 11/20/20
Analyst Description: Grey, Homogeneous, Non-Fibrous, Cementitious, Stucco **Asbestos Types:** Chrysotile <0.1 % pc **Other Material:** Non-Asbestos/Inert 71 %			

Reporting Notes:

(1) EPA 1000 Point Count Analysis performed on inert residue remaining after 480C heat and HCl acid treatments.

Analyzed By: Johana Perez ____ for Johana ____; Date Analyzed: 11/20/2020 11/20/20

*NAD = no asbestos detected; Detection Limit <1%; Reporting Limits: CVES = 1%, 400 Pt Ct = 0.25%, 1000 Pt Ct = 0.1%; NA = not analyzed; NA/PS = not analyzed / positive stop; NVA = No Visible Asbestos; PLM (polarized light microscopy) Bulk Asbestos Analysis by EPA 600/R-93/116, including requirements for EPA 600/M4-82-020 per 40 CFR 763 (NVLAP Lab #200346-0); Note: PLM is not consistently reliable in detecting asbestos in floor coverings and similar NOB materials. TEM is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos-containing in New York State (also see EPA Advisory for floor tile, FR 59, 146, 38970, 8/1/94). NIST Accreditation requirements mandate that this report must not be reproduced except in full with the approval of the laboratory. This PLM report relates ONLY to the items tested.

Reviewed By: ____

EXECUTIVE ENVIRONMENTAL
HEALTH & SAFETY SIMPLIFIED

Industrial Hygiene Laboratory Submittal
Asbestos -- PLM

Originating Office
☑ 310 E. Foothill Blvd., Suite 200
Arcadia, CA 91006
Phone: 626.441.7050
Fax: 626.441.0016

Lab Submitted to:
☑ AmeriSci
☐ EMLab (Glendale)
☐ LA Testing

☐ **Routine** (5 Working Days)

☐ **RUSH** (surcharges may apply) Circle One: 6 hours | 24 hours | 48 hours | (3 to 5 days)

Project #:	Sampled by:	Site Zip Code:	Sample Date:	
20-Z0046-0134	Tim Galeana/Rhys Kuzmic	91770	11/12/2020	Page 5 of 15

Building Name: Building D (Rooms 13-16)

The receiving Laboratory is required to complete the following:
1. All invoices are to be sent to: 310 E. Foothill Blvd., Suite 200, Arcadia, CA 91006 **with** a copy of the lab report.
2. Analyze all samples by PLM by EPA 600/R-93/116.
3. Stop analysis of homogeneous groups at first positive that is greater than or equal to 1.0%
4. All lab reports and invoices are to contain the Project Number from above.
5. Unsigned and reports marked draft are unacceptable.
6. Report to the attention of: Yesenia Galeana, Phone: (562) 889-1327

Optional Items to be completed by the laboratory (if check marked): ☑ Email Report to: ☑ Info@execenv.com ☑ Other: ygaleana@execenv.com;

☑ US Mail Report to: ☑ Originating office check marked above ☐ Other: ☐ Alternate billing address: 92011126

Prefix: 20111201834RK

Sample No.:	Sample Location – Include Room information where appropriate	Material Description	Homogeneous Location	No.	Quantity	Percent Damaged
-23	Exterior, south wall	Exterior stucco	T-O exterior walls and west breezeway	5	3,500SF	<1
-24	Exterior, east wall	↓		↓	↓	↓
-25	Exterior, north wall					
-26	Exterior, west wall					
-27	Exterior, west breezeway ceiling ~SE					

Notes:

Released By, Date, & Time:	Received By, Date, & Time::	Released By, Date, & Time:
RhKz 11/13/2020 2:45PM		RJ 11/13/20 1445

EXECUTIVE ENVIRONMENTAL
HEALTH & SAFETY SIMPLIFIED

Industrial Hygiene Laboratory Submittal
Asbestos -- PLM

Originating Office
☑ 310 E. Foothill Blvd., Suite 200
Arcadia, CA 91006
Phone: 626.441.7050
Fax: 626.441.0016

Lab Submitted to:
☑ AmeriSci
☐ EMLab (Glendale)
☐ LA Testing

☐ Routine (5 Working Days)	☐ RUSH (surcharges may apply) Circle One: 6 hours / 24 hours / 48 hours / 3 to 5 days	Project #:	Sampled by:	Site Zip Code:	Sample Date:	
		20-Z0046-0134	Tim Galeana/Rhys Kuzmic	91770	11/12/2020	Page 6 of 15

The receiving Laboratory is required to complete the following:

1. All invoices are to be sent to: 310 E. Foothill Blvd., Suite 200, Arcadia, CA 91006 **with** a copy of the lab report.
2. Analyze all samples by PLM by EPA 600/R-93/116.
3. Stop analysis of homogeneous groups at first positive that is greater than or equal to 1.0%

Building Name: Building E (Rooms 17-19)

4. All lab reports and invoices are to contain the Project Number from above.
5. Unsigned and reports marked draft are unacceptable.
6. Report to the attention of: Yesenia Galeana, Phone: (562) 889-1327

Optional Items to be completed by the laboratory (if check marked): ☑ Email Report to: ☑ Info@execenv.com ☑ Other: ygaleana@execenv.com;

☑ US Mail Report to: ☑ Originating office check marked above ☐ Other: ☐ Alternate billing address: 9201112602

Prefix: 20111201347RK

Sample No.:	Sample Location – Include Room information where appropriate	Material Description	Homogeneous Location	No.	Quantity	Percent Damaged
-28	Exterior, North wall - west end	Exterior stucco	TO exterior walls	6	3,000SF	<1
-29	Exterior, West Wall	↓		↓	↓	↓
-30	Exterior, South Wall					
-31	Exterior, east Wall					
-32	Exterior, North Wall - east end					

Notes:

Released By, Date, & Time:	Received By, Date, & Time::	Released By, Date, & Time:
RK 11/13/2020 2:45PM		RJ 11/13/20 1445

EXECUTIVE ENVIRONMENTAL
HEALTH & SAFETY SIMPLIFIED

Industrial Hygiene Laboratory Submittal
Asbestos -- PLM

Originating Office
☑ 310 E. Foothill Blvd., Suite 200
Arcadia, CA 91006
Phone: 626.441.7050
Fax: 626.441.0016

Lab Submitted to:
☑ AmeriSci
☐ EMLab (Glendale)
☐ LA Testing

☐ **Routine** (5 Working Days)

☐ **RUSH** (surcharges may apply) Circle One: 6 hours | 24 hours | 48 hours | 3 to 5 days

Project #:	Sampled by:	Site Zip Code:	Sample Date:	
20-Z0046-0134	Tim Galeana/Rhys Kuzmic	91770	11/12/2020	Page 7 of 15

The receiving Laboratory is required to complete the following:

1. All invoices are to be sent to: 310 E. Foothill Blvd., Suite 200, Arcadia, CA 91006 **with** a copy of the lab report.
2. Analyze all samples by PLM by EPA 600/R-93/116.
3. Stop analysis of homogeneous groups at first positive that is greater than or equal to 1.0%

Building Name: Buildings F (Rooms 20-23)

4. All lab reports and invoices are to contain the Project Number from above.
5. Unsigned and reports marked draft are unacceptable.
6. Report to the attention of: Yesenia Galeana, Phone: (562) 889-1327

Optional Items to be completed by the laboratory (if check marked): ☑ Email Report to: ☑ Info@execenv.com ☑ Other: ygaleana@execenv.com;

☑ US Mail Report to: ☑ Originating office check marked above ☐ Other: ☐ Alternate billing address: 92011126 02

Prefix: 20111201 34RK

Sample No.:	Sample Location – Include Room information where appropriate	Material Description	Homogeneous Location	No.	Quantity	Percent Damaged
-33	Exterior, south wall	Exterior stucco	TO exterior walls and West breezeway	7	3,500 SF	<1
-34	Exterior, east wall	↓	↓	↓	↓	↓
-35	Exterior, north wall	↓	↓	↓	↓	↓
-36	Exterior, west wall	↓	↓	↓	↓	↓
-37	Exterior, west breezeway ceiling - SE	↓	↓	↓	↓	↓

Notes:

Released By, Date, & Time:	Received By, Date, & Time::	Released By, Date, & Time:
RhysKuz 11/13/2020 2:45PM		RJ 11/13/20 1445

EXECUTIVE ENVIRONMENTAL
HEALTH & SAFETY SIMPLIFIED

Industrial Hygiene Laboratory Submittal
Asbestos -- PLM

Originating Office
☑ 310 E. Foothill Blvd., Suite 200
Arcadia, CA 91006
Phone: 626.441.7050
Fax: 626.441.0016

Lab Submitted to:
☑ AmeriSci
☐ EMLab (Glendale)
☐ LA Testing

☐ Routine (5 Working Days)	☐ RUSH (surcharges may apply) Circle One: 6 hours / 24 hours / 48 hours / (3 to 5 days)	Project #:	Sampled by:	Site Zip Code:	Sample Date:	
		20-Z0046-0134	Tim Galeana/Rhys Kuzmic	91770	11/12/2020	Page 8 of 15

Building Name: Building H (Rooms 5-9)

The receiving Laboratory is required to complete the following:

1. All invoices are to be sent to: 310 E. Foothill Blvd., Suite 200, Arcadia, CA 91006 **with** a copy of the lab report.
2. Analyze all samples by PLM by EPA 600/R-93/116.
3. Stop analysis of homogeneous groups at first positive that is greater than or equal to 1.0%
4. All lab reports and invoices are to contain the Project Number from above.
5. Unsigned and reports marked draft are unacceptable.
6. Report to the attention of: Yesenia Galeana, Phone: (562) 889-1327

Optional Items to be completed by the laboratory (if check marked): ☑ Email Report to: ☑ Info@execenv.com ☑ Other: ygaleana@execenv.com;

☑ US Mail Report to: ☑ Originating office check marked above ☐ Other: ☐ Alternate billing address: 92011262

Prefix: 20112062RK

Sample No.:	Sample Location – Include Room information where appropriate	Material Description	Homogeneous Location	No.	Quantity	Percent Damaged
-38	Exterior, south wall	Exterior stucco	T-O exterior walls (select walls- some are underbuilt) and overhang	8	4,500SF	<1
-39	Exterior, west wall	↓	↓	↓	↓	↓
-40	Exterior, north wall	↓	↓	↓	↓	↓
-41	Exterior, east wall	↓	↓	↓	↓	↓
-42	Exterior, overhang - SE	↓	↓	↓	↓	↓

Notes:

Released By, Date, & Time:	Received By, Date, & Time::	Released By, Date, & Time:
RhKu 11/13/2020 2:45PM		RJ 11/13/20 1445

EXECUTIVE ENVIRONMENTAL
HEALTH & SAFETY SIMPLIFIED

Industrial Hygiene Laboratory Submittal
Asbestos -- PLM

Originating Office
☑ 310 E. Foothill Blvd., Suite 200
Arcadia, CA 91006
Phone: 626.441.7050
Fax: 626.441.0016

Lab Submitted to:
☑ AmeriSci
☐ EMLab (Glendale)
☐ LA Testing

☐ Routine (5 Working Days)	☐ RUSH (surcharges may apply) Circle One: 6 hours / 24 hours / 48 hours / (3 to 5 days)	Project #:	Sampled by:	Site Zip Code:	Sample Date:	
		20-Z0046-0134	Tim Galeana/Rhys Kuzmic	91770	11/12/2020	Page 9 of 15

Building Name: Restroom Building 1

The receiving Laboratory is required to complete the following:

1. All invoices are to be sent to: 310 E. Foothill Blvd., Suite 200, Arcadia, CA 91006 **with** a copy of the lab report.
2. Analyze all samples by PLM by EPA 600/R-93/116.
3. Stop analysis of homogeneous groups at first positive that is greater than or equal to 1.0%
4. All lab reports and invoices are to contain the Project Number from above.
5. Unsigned and reports marked draft are unacceptable.
6. Report to the attention of: Yesenia Galeana, Phone: (562) 889-1327

Optional Items to be completed by the laboratory (if check marked): ☑ Email Report to: ☑ Info@execenv.com ☑ Other: ygaleana@execenv.com;

☑ US Mail Report to: ☑ Originating office check marked above ☐ Other: ☐ Alternate billing address: a20111262

Prefix: 20111201341RK

Sample No.:	Sample Location – Include Room information where appropriate	Material Description	Homogeneous Location	No.	Quantity	Percent Damaged
-43	Exterior, South Wall	Exterior stucco	T-O exterior walls and west breezeway	9	1,200SF	<1
-44	Exterior, North Wall	↓		↓	↓	↓
-45	Exterior, West Wall					
-46	Exterior, east Wall					
-47	Exterior, west breezeway ceiling - SE					

Notes:

Released By, Date, & Time:	Received By, Date, & Time::	Released By, Date, & Time:
RhnKz 11/13/2020 2:45PM		DJ 11/13/20 1445

EXECUTIVE ENVIRONMENTAL
HEALTH & SAFETY SIMPLIFIED

Industrial Hygiene Laboratory Submittal
Asbestos -- PLM

Originating Office
☑ 310 E. Foothill Blvd., Suite 200
Arcadia, CA 91006
Phone: 626.441.7050
Fax: 626.441.0016

Lab Submitted to:
☑ AmeriSci
☐ EMLab (Glendale)
☐ LA Testing

☐ Routine (5 Working Days)	☐ RUSH (surcharges may apply) Circle One: 6 hours / 24 hours / 48 hours / 3 to 5 days	Project #:	Sampled by:	Site Zip Code:	Sample Date:	
		20-Z0046-0134	Tim Galeana/Rhys Kuzmic	91770	11/12/2020	Page 1 of 5

The receiving Laboratory is required to complete the following:

1. All invoices are to be sent to: 310 E. Foothill Blvd., Suite 200, Arcadia, CA 91006 **with** a copy of the lab report.
2. Analyze all samples by PLM by EPA 600/R-93/116.
3. Stop analysis of homogeneous groups at first positive that is greater than or equal to 1.0%
4. All lab reports and invoices are to contain the Project Number from above.
5. Unsigned and reports marked draft are unacceptable.
6. Report to the attention of: Yesenia Galeana, Phone: (562) 889-1327

Building Name: Restroom Building 2

Optional Items to be completed by the laboratory (if check marked): ☑ Email Report to: ☑ Info@execenv.com ☑ Other: ygaleana@execenv.com;

☑ US Mail Report to: ☑ Originating office check marked above ☐ Other: ☐ Alternate billing address: a20111262

Prefix: 20111201342RK

Sample No.:	Sample Location – Include Room information where appropriate	Material Description	Homogeneous Location	No.	Quantity	Percent Damaged
-48	Exterior, north wall	Exterior stucco	T-O exterior walls and west breezeway	10	1,200sf	<1
-49	Exterior, south wall	↓	↓	↓	↓	↓
-50	Exterior, east wall	↓	↓	↓	↓	↓
-51	Exterior, west wall	↓	↓	↓	↓	↓
-52	Exterior, west breezeway ceiling ~SF	↓	↓	↓	↓	↓

Notes:

Released By, Date, & Time:	Received By, Date, & Time::	Released By, Date, & Time:
RK 11/13/2020 2:45PM		RJ 11/16/20 1445

EXECUTIVE ENVIRONMENTAL
HEALTH & SAFETY SIMPLIFIED

Industrial Hygiene Laboratory Submittal
Asbestos -- PLM

Originating Office
☑ 310 E. Foothill Blvd., Suite 200
Arcadia, CA 91006
Phone: 626.441.7050
Fax: 626.441.0016

Lab Submitted to:
☑ AmeriSci
☐ EMLab (Glendale)
☐ LA Testing

☐ Routine (5 Working Days)	☐ RUSH (surcharges may apply) Circle One: 6 hours / 24 hours / 48 hours / 3 to 5 days	Project #:	Sampled by:	Site Zip Code:	Sample Date:	
		20-Z0046-0134	Tim Galeana/Rhys Kuzmic	91770	11/12/2020	Page 1 of 15

Building Name: Covered Walkways

The receiving Laboratory is required to complete the following:
1. All invoices are to be sent to: 310 E. Foothill Blvd., Suite 200, Arcadia, CA 91006 **with** a copy of the lab report.
2. Analyze all samples by PLM by EPA 600/R-93/116.
3. Stop analysis of homogeneous groups at first positive that is greater than or equal to 1.0%
4. All lab reports and invoices are to contain the Project Number from above.
5. Unsigned and reports marked draft are unacceptable.
6. Report to the attention of: Yesenia Galeana, Phone: (562) 889-1327

Optional Items to be completed by the laboratory (if check marked): ☑ Email Report to: ☑ info@execenv.com ☑ Other: ygaleana@execenv.com;

☑ US Mail Report to: ☑ Originating office check marked above ☐ Other: ☐ Alternate billing address: 9201112602

Prefix: 20111201342K

Sample No.:	Sample Location – Include Room information where appropriate	Material Description	Homogeneous Location	No.	Quantity	Percent Damaged
-53	Covered Walkway > exterior, east wall - south side	Exterior stucco	Covered Walkway > walls	11	200 SF	<1
-54	Covered Walkway > exterior, south side wall	↓		↓	↓	↓
-55	Covered Walkway > exterior, west wall - south side	↓		↓	↓	↓
-56	Covered Walkway 10 exterior, east wall - east side	Exterior stucco	Covered Walkway 10 walls	12	200 SF	<1
-57	Covered Walkway 10 exterior, east wall - south side	↓		↓	↓	↓
-58	Covered Walkway 10 exterior, west wall - north side	↓		↓	↓	↓

Notes:

Released By, Date, & Time:	Received By, Date, & Time::	Released By, Date, & Time:
RhyKz 11/13/2020 2:45PM		BJ 11/13/20 1445

EXECUTIVE ENVIRONMENTAL
HEALTH & SAFETY SIMPLIFIED

Industrial Hygiene Laboratory Submittal
Asbestos -- PLM

Originating Office
☑ 310 E. Foothill Blvd., Suite 200
Arcadia, CA 91006
Phone: 626.441.7050
Fax: 626.441.0016

Lab Submitted to:
☑ AmeriSci
☐ EMLab (Glendale)
☐ LA Testing

☐ **Routine** (5 Working Days)

☐ **RUSH** (surcharges may apply) Circle One: 6 hours | 24 hours | 48 hours | (3 to 5 days)

Project #:	Sampled by:	Site Zip Code:	Sample Date:	
20-Z0046-0134	Tim Galeana/Rhys Kuzmic	91770	11/12/2020	Page 12 of 15

Building Name: Campus

The receiving Laboratory is required to complete the following:
1. All invoices are to be sent to: 310 E. Foothill Blvd., Suite 200, Arcadia, CA 91006 **with** a copy of the lab report.
2. Analyze all samples by PLM by EPA 600/R-93/116.
3. Stop analysis of homogeneous groups at first positive that is greater than or equal to 1.0%
4. All lab reports and invoices are to contain the Project Number from above.
5. Unsigned and reports marked draft are unacceptable.
6. Report to the attention of: Yesenia Galeana, Phone: (562) 889-1327

Optional Items to be completed by the laboratory (if check marked): ☑ Email Report to: ☑ Info@execenv.com ☑ Other: ygaleana@execenv.com;

☑ US Mail Report to: ☑ Originating office check marked above ☐ Other: ☐ Alternate billing address: 920111262

Prefix: 20111201314RK

Sample No.:	Sample Location – Include Room information where appropriate	Material Description	Homogeneous Location	No.	Quantity	Percent Damaged
-59	Kindergarten playground, SE	Asphalt paving	Kindergarten playground	13	2,700 SF	<1
-60	Kindergarten playground, SW	↓		↓	↓	↓
-61	Kindergarten playground, north	↓		↓	↓	↓
-62	South Playground, SE	Asphalt paving	South playground	14	23,000 SF	<1
-63	South Playground, west of Portable 25	↓		↓	↓	↓
-64	South Playground, near center	↓		↓	↓	↓
-65	South Playground, SW	↓		↓	↓	↓
-66	South Playground, NW	↓		↓	↓	↓

Notes:

Released By, Date, & Time:	Received By, Date, & Time::	Released By, Date, & Time:
RhyKu 11/13/2020 2:45PM		11/13/20 1445

EXECUTIVE ENVIRONMENTAL
HEALTH & SAFETY SIMPLIFIED

Industrial Hygiene Laboratory Submittal
Asbestos -- PLM

Originating Office
☑ 310 E. Foothill Blvd., Suite 200
Arcadia, CA 91006
Phone: 626.441.7050
Fax: 626.441.0016

Lab Submitted to:
☑ AmeriSci
☐ EMLab (Glendale)
☐ LA Testing

☐ Routine (5 Working Days)	☐ RUSH (surcharges may apply) Circle One: 6 hours / 24 hours / 48 hours / (3 to 5 days)	Project #:	Sampled by:	Site Zip Code:	Sample Date:	
		20-Z0046-0134	Tim Galeana/Rhys Kuzmic	91770	11/12/2020	Page 13 of 15

The receiving Laboratory is required to complete the following:

1. All invoices are to be sent to: 310 E. Foothill Blvd., Suite 200, Arcadia, CA 91006 **with** a copy of the lab report.
2. Analyze all samples by PLM by EPA 600/R-93/116.
3. Stop analysis of homogeneous groups at first positive that is greater than or equal to 1.0%

Building Name: Campus

4. All lab reports and invoices are to contain the Project Number from above.
5. Unsigned and reports marked draft are unacceptable.
6. Report to the attention of: Yesenia Galeana, Phone: (562) 889-1327

Optional Items to be completed by the laboratory (if check marked): ☑ Email Report to: ☑ Info@execenv.com ☑ Other: ygaleana@execenv.com;

☑ US Mail Report to: ☑ Originating office check marked above ☐ Other: ☐ Alternate billing address: 9201112662

Prefix: 201120134RK

Sample No.:	Sample Location – Include Room information where appropriate	Material Description	Homogeneous Location	No.	Quantity	Percent Damaged
-67	Driveway to South Parking Lot, NE	Asphalt paving	Driveway to South Parking Lot	15	3,900 SF	<1
-68	Driveway to South Parking Lot, Near center	↓		↓	↓	↓
-69	Driveway to South Parking Lot, South	↓		↓	↓	↓
-70	School sign at South Parking Lot, on support post	Texture coat on metal	School sign at South Parking Lot	16	60 SF	<1
-71	School sign at South Parking Lot, on support post	↓		↓	↓	↓
-72	School sign at South Parking Lot, on support post	↓		↓	↓	↓

Notes:

Released By, Date, & Time:	Received By, Date, & Time::	Released By, Date, & Time:
RhyKuz 11/13/2020 2:45PM		DJ 11/13/20 1445

EXECUTIVE ENVIRONMENTAL
HEALTH & SAFETY SIMPLIFIED

Industrial Hygiene Laboratory Submittal
Asbestos -- PLM

Originating Office
☑ 310 E. Foothill Blvd., Suite 200
Arcadia, CA 91006
Phone: 626.441.7050
Fax: 626.441.0016

Lab Submitted to:
☑ AmeriSci
☐ EMLab (Glendale)
☐ LA Testing

☐ Routine (5 Working Days)	☐ RUSH (surcharges may apply) Circle One: 6 hours / 24 hours / 48 hours / 3 to 5 days	Project #:	Sampled by:	Site Zip Code:	Sample Date:	
		20-Z0046-0134	Tim Galeana/Rhys Kuzmic	91770	11/12/2020	Page 14 of 15

Building Name: Campus

The receiving Laboratory is required to complete the following:

1. All invoices are to be sent to: 310 E. Foothill Blvd., Suite 200, Arcadia, CA 91006 **with** a copy of the lab report.
2. Analyze all samples by PLM by EPA 600/R-93/116.
3. Stop analysis of homogeneous groups at first positive that is greater than or equal to 1.0%
4. All lab reports and invoices are to contain the Project Number from above.
5. Unsigned and reports marked draft are unacceptable.
6. Report to the attention of: Yesenia Galeana, Phone: (562) 889-1327

Optional Items to be completed by the laboratory (if check marked): ☑ Email Report to: ☑ Info@execenv.com ☑ Other: ygaleana@execenv.com;

☑ US Mail Report to: ☑ Originating office check marked above ☐ Other: ☐ Alternate billing address: 92011262

Prefix: 20111201341RK

Sample No.:	Sample Location – Include Room information where appropriate	Material Description	Homogeneous Location	No.	Quantity	Percent Damaged
-73	South Parking Lot, east	Asphalt paving	South Parking Lot	17	33,000 SF	<1
-74	South Parking Lot, east	↓		↓	↓	↓
-75	South Parking Lot, center					
-76	South Parking Lot, center-west					
-77	South Parking Lot, west					

Notes:

Released By, Date, & Time:	Received By, Date, & Time:	Released By, Date, & Time:
RK 11/13/2020 2:45PM		DJ 11/13/20 1445

EXECUTIVE ENVIRONMENTAL
HEALTH & SAFETY SIMPLIFIED

Industrial Hygiene Laboratory Submittal
Asbestos -- PLM

Originating Office
☑ 310 E. Foothill Blvd., Suite 200
Arcadia, CA 91006
Phone: 626.441.7050
Fax: 626.441.0016

Lab Submitted to:
☑ AmeriSci
☐ EMLab (Glendale)
☐ LA Testing

☐ Routine (5 Working Days)	☐ RUSH (surcharges may apply) Circle One: 6 hours / 24 hours / 48 hours / (3 to 5 days)	Project #:	Sampled by:	Site Zip Code:	Sample Date:	
		20-Z0046-0134	Tim Galeana/Rhys Kuzmic	91770	11/12/2020	Page 1 of 15

The receiving Laboratory is required to complete the following:

1. All invoices are to be sent to: 310 E. Foothill Blvd., Suite 200, Arcadia, CA 91006 **with** a copy of the lab report.
2. Analyze all samples by PLM by EPA 600/R-93/116.
3. Stop analysis of homogeneous groups at first positive that is greater than or equal to 1.0%

Building Name: Campus

4. All lab reports and invoices are to contain the Project Number from above.
5. Unsigned and reports marked draft are unacceptable.
6. Report to the attention of: Yesenia Galeana, Phone: (562) 889-1327

Optional Items to be completed by the laboratory (if check marked): ☑ Email Report to: ☑ Info@execenv.com ☑ Other: ygaleana@execenv.com;

☑ US Mail Report to: ☑ Originating office check marked above ☐ Other: ☐ Alternate billing address: 920111262

Prefix: 20111201134RK

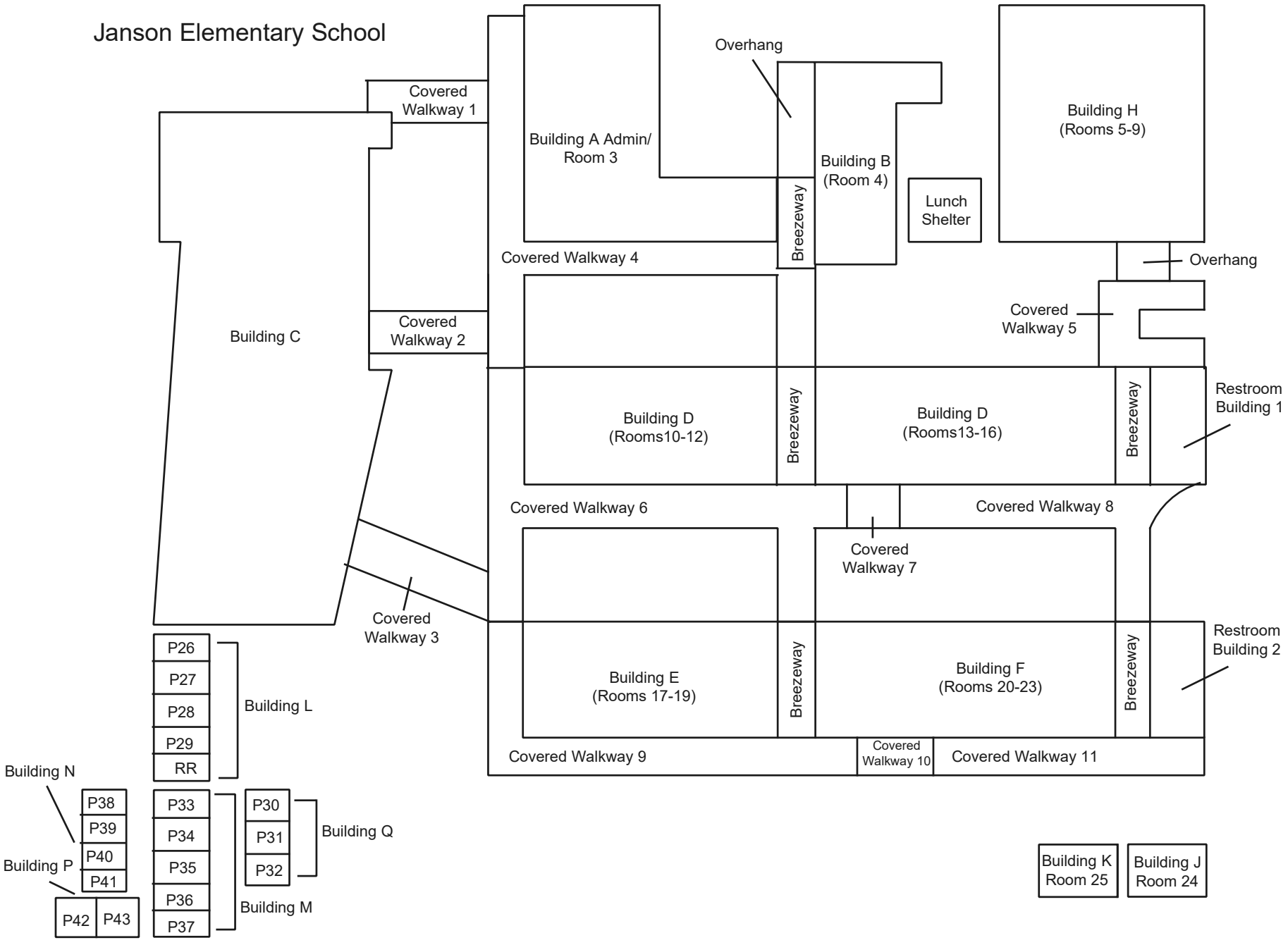
Sample No.:	Sample Location – Include Room information where appropriate	Material Description	Homogeneous Location	No.	Quantity	Percent Damaged
-78	School sign north by Buildings A (Admin/Room 3), on support post	Texture coat on metal	School sign north by Buildings A (Admin/Room 3)	18	60 SF	C1
-79	School sign north by Buildings A (Admin/Room 3), on support post	↓		↓	↓	↓
-80	School sign north by Buildings A (Admin/Room 3), on support post	↓		↓	↓	↓

Notes:

Released By, Date, & Time:	Received By, Date, & Time:	Released By, Date, & Time:
Rhys Kuz 11/13/2020 2:45PM		PJ 11/13/20 1445

APPENDIX B – SAMPLE LOCATIONS DRAWINGS

Janson Elementary School



Client: Rosemead SD

Project #: 20-Z0046-0134

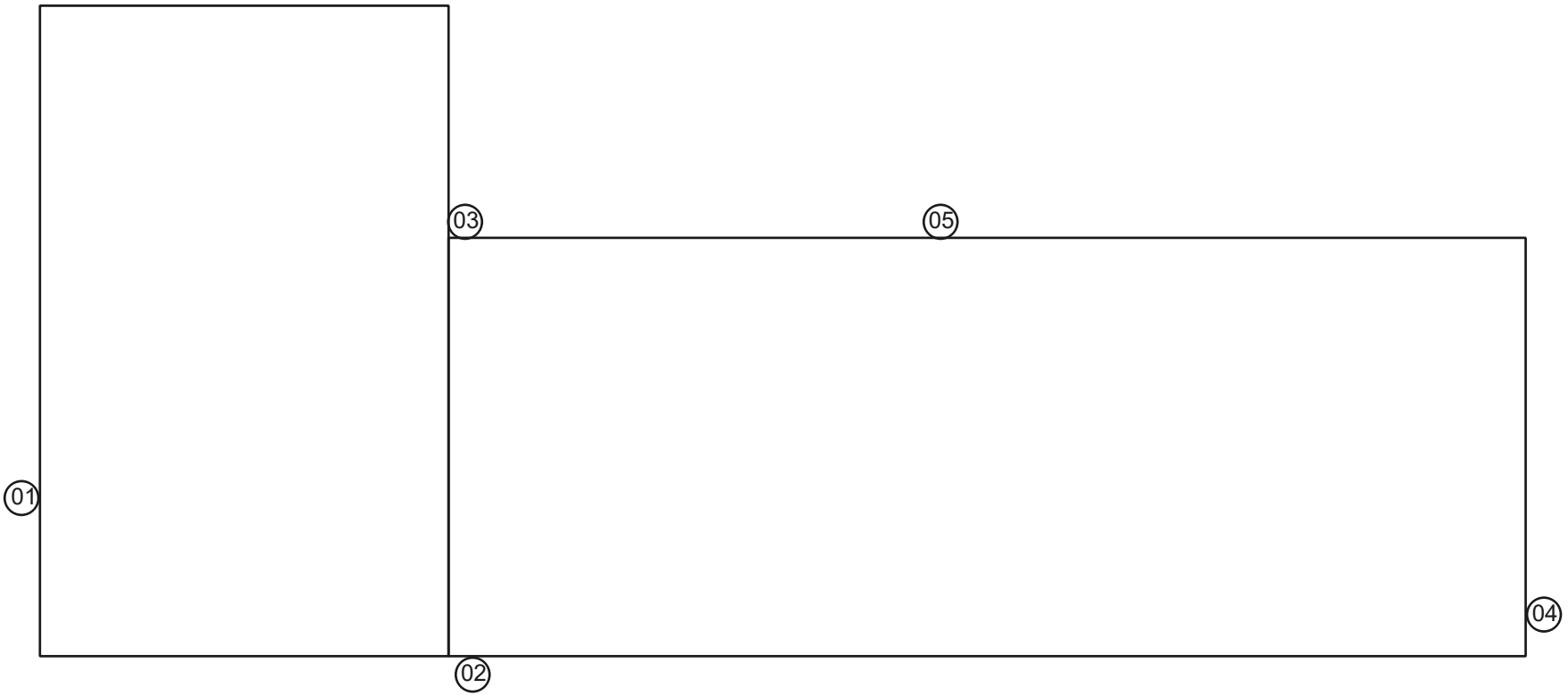
Info: Site Map

EXECUTIVE ENVIRONMENTAL
HEALTH & SAFETY SIMPLIFIED

Site: Janson Elementary School
Adress: 8628 Marshall Street
Rosemead, California, 91170

Drawing Not to Scale - © 2012

Administration Building/Room 3
Exterior

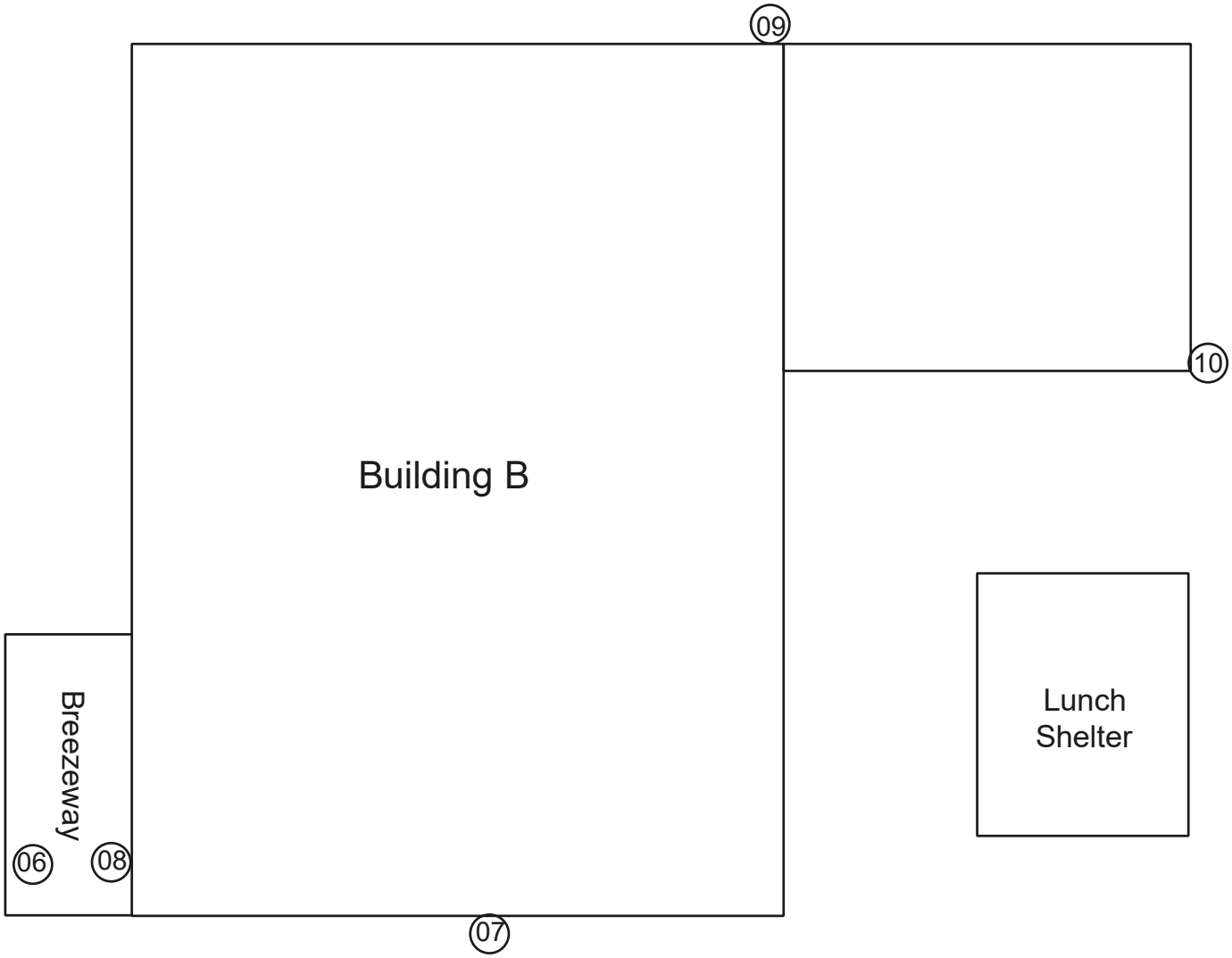


◯ - PLM Sample Location

N

Client: Rosemead SD	**Project #:** 20-Z0046-0134	**Info:** PLM Sample Location
EXECUTIVE ENVIRONMENTAL **HEALTH & SAFETY SIMPLIFIED**		**Site:** Janson Elementary School **Adress:** 8628 Marshall Avenue Rosemead, California, 91170

Building B (Room 4)
Exterior

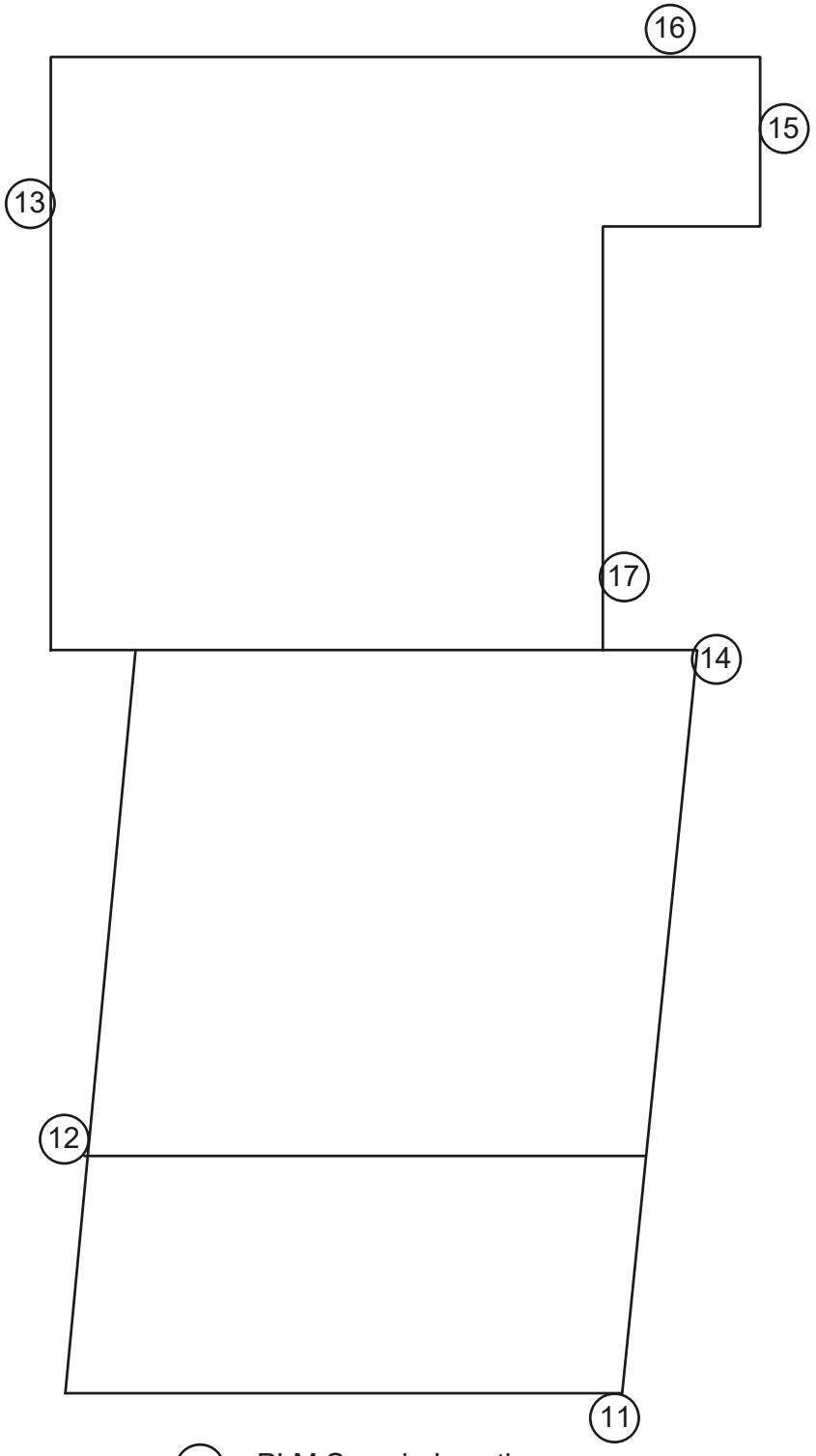


◯ - PLM Sample Location

N

Client: Rosemead SD	**Project#:** 20-Z0046-0134	**Info:** PLM Sample Location
EXECUTIVE ENVIRONMENTAL **HEALTH & SAFETY SIMPLIFIED**		**Site:** Janson Elementary School **Address:** 8628 Marshall Avenue Rosemead, CA 91770

Building C
Exterior

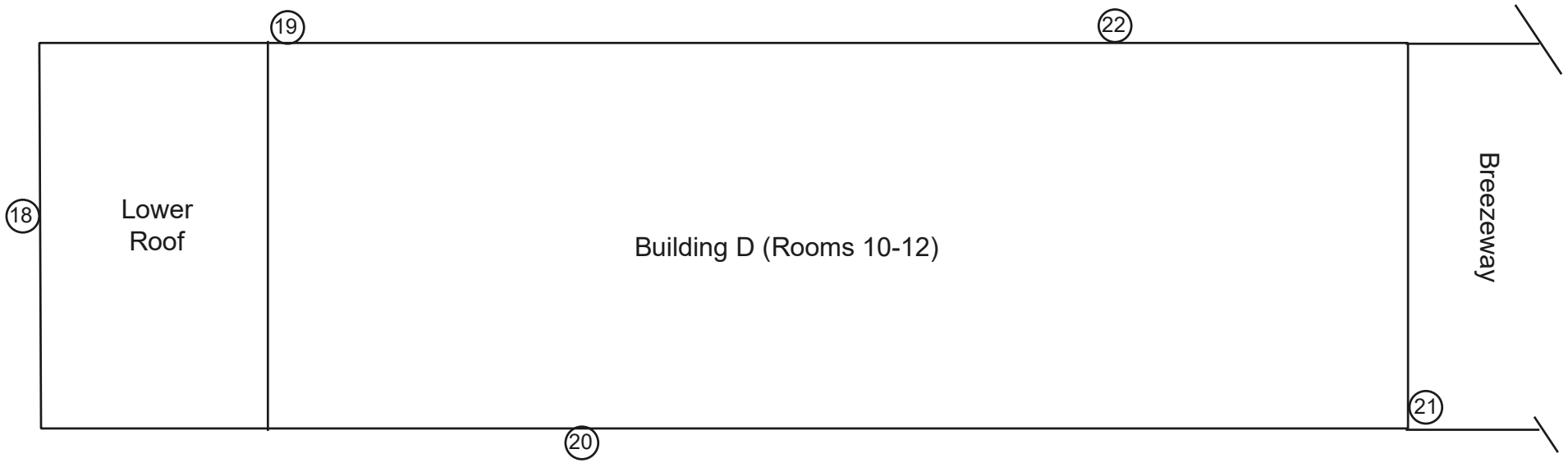


○ - PLM Sample Location

N

Client: Rosemead SD	**Project#:** 20-Z0046-0134	**Info:** PLM Sample Location
EXECUTIVE ENVIRONMENTAL HEALTH & SAFETY SIMPLIFIED		**Site:** Janson Elementary School **Address:** 8628 Marshall Avenue Rosemead, CA 91770

Building D (Rooms 10 through 12)

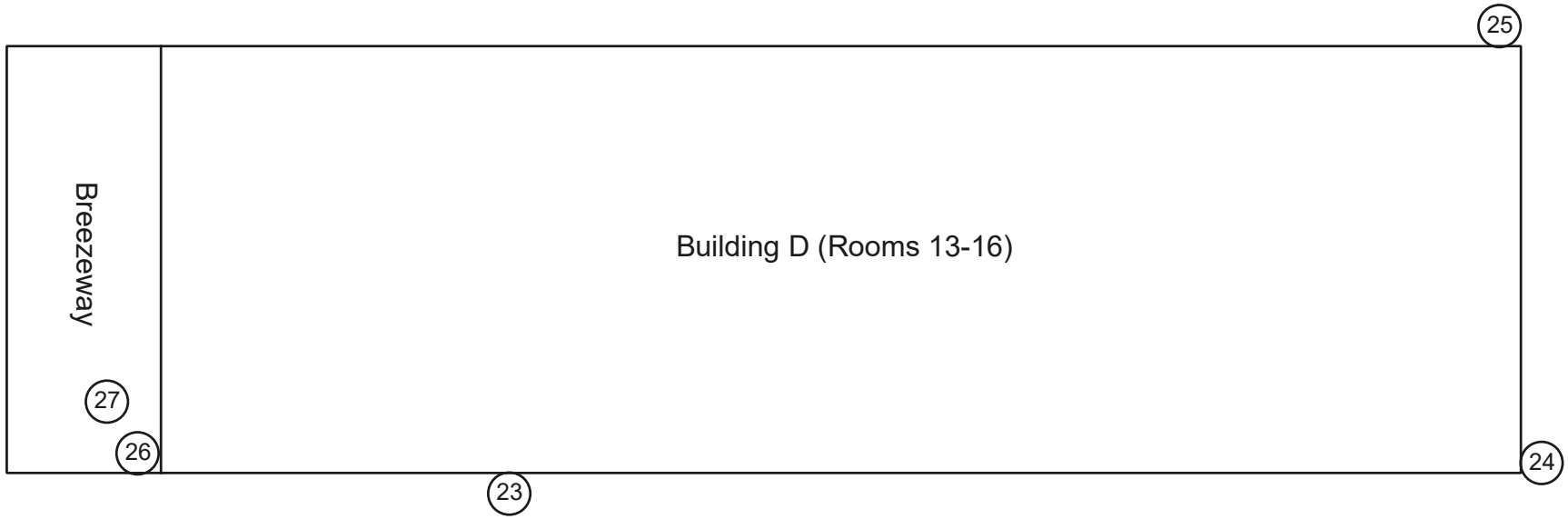


◯ - PLM Sample Location

N

Client: Rosemead SD	**Project #:** 20-Z0046-0134	**Info:** PLM Sample Location
EXECUTIVE ENVIRONMENTAL **HEALTH & SAFETY SIMPLIFIED**		**Site:** Janson Elementary School **Adress:** 8628 Marshall Avenue Rosemead, California, 91170

Building D (Rooms 13 through 16)
Exterior

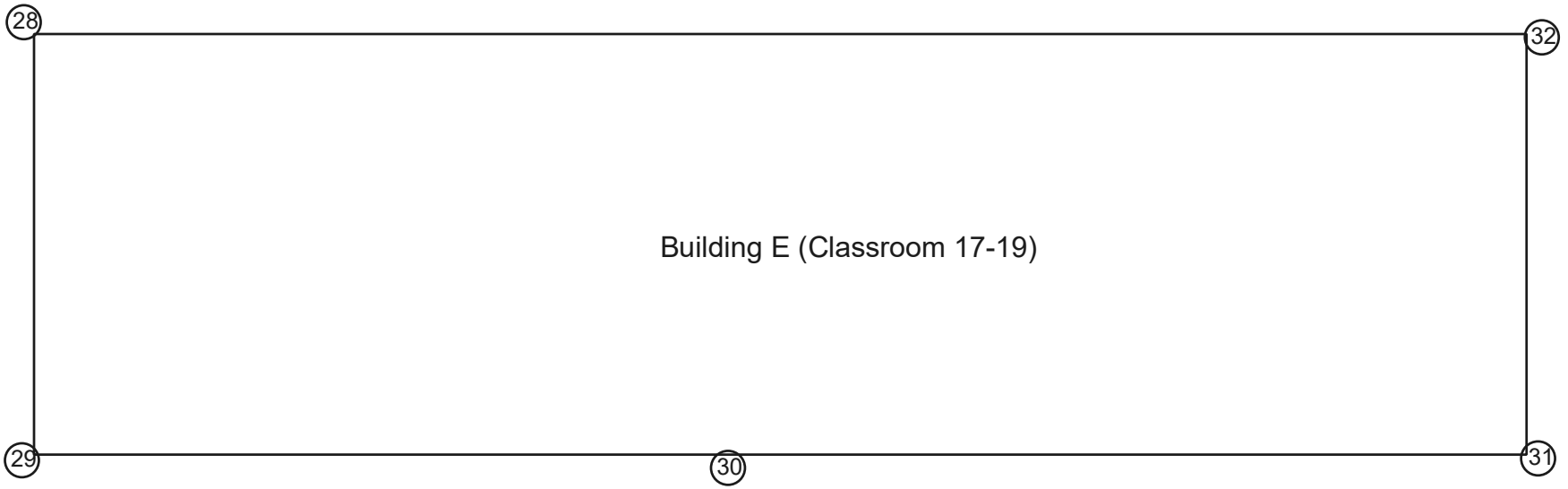


○ - PLM Sample Location

N

Client: Rosemead SD	**Project #:** 20-Z0046-0134	**Info:** PLM Sample Locations
EXECUTIVE ENVIRONMENTAL **HEALTH & SAFETY SIMPLIFIED**		**Site:** Janson Elementary School **Adress:** 8628 Marshall Avenue Rosemead, California, 91170

Building E (Rooms 17 through 19)
Exterior

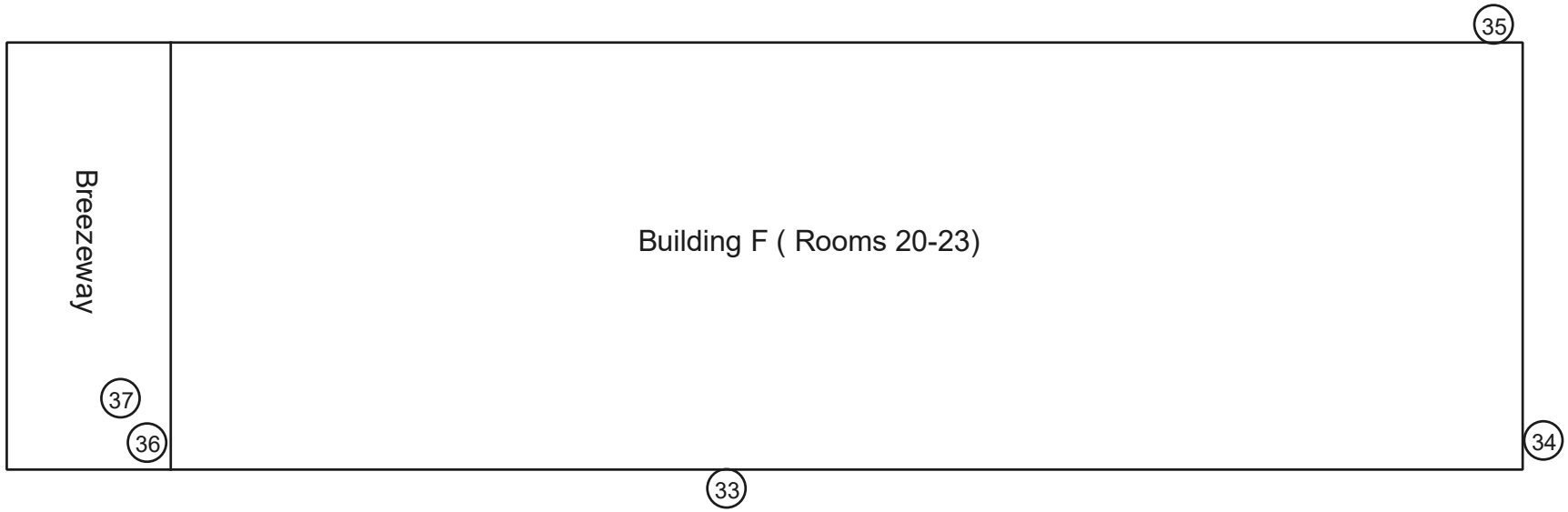


○ - PLM Sample Location

N

Client: Rosemead SD	**Project #:** 20-Z0046-0134	**Info:** PLM Sample Locations
EXECUTIVE ENVIRONMENTAL **HEALTH & SAFETY SIMPLIFIED**		**Site:** Janson Elementary School **Adress:** 8628 Marshall Avenue Rosemead, California, 91170

Building F (Rooms 20 through 23)
Exterior

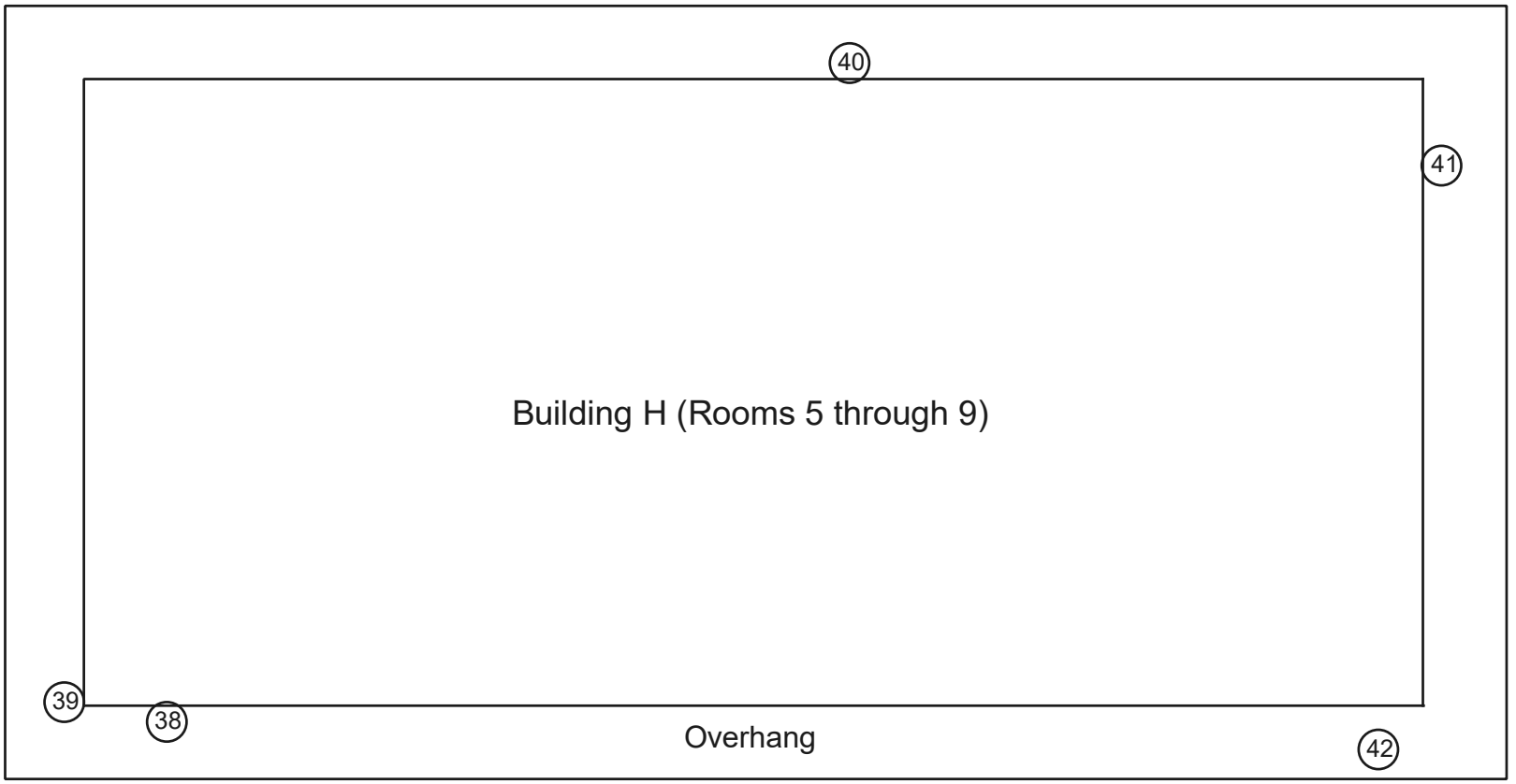


◯ - PLM Sample Location

N

Client: Rosemead SD	**Project #:** 20-Z0046-0134	**Info:** PLM Sample Location
EXECUTIVE ENVIRONMENTAL **HEALTH & SAFETY SIMPLIFIED**		**Site:** Janson Elementary School **Adress:** 8628 Marshall Avenue Rosemead, California, 91170

Building H (Rooms 5 through 9)
Exterior

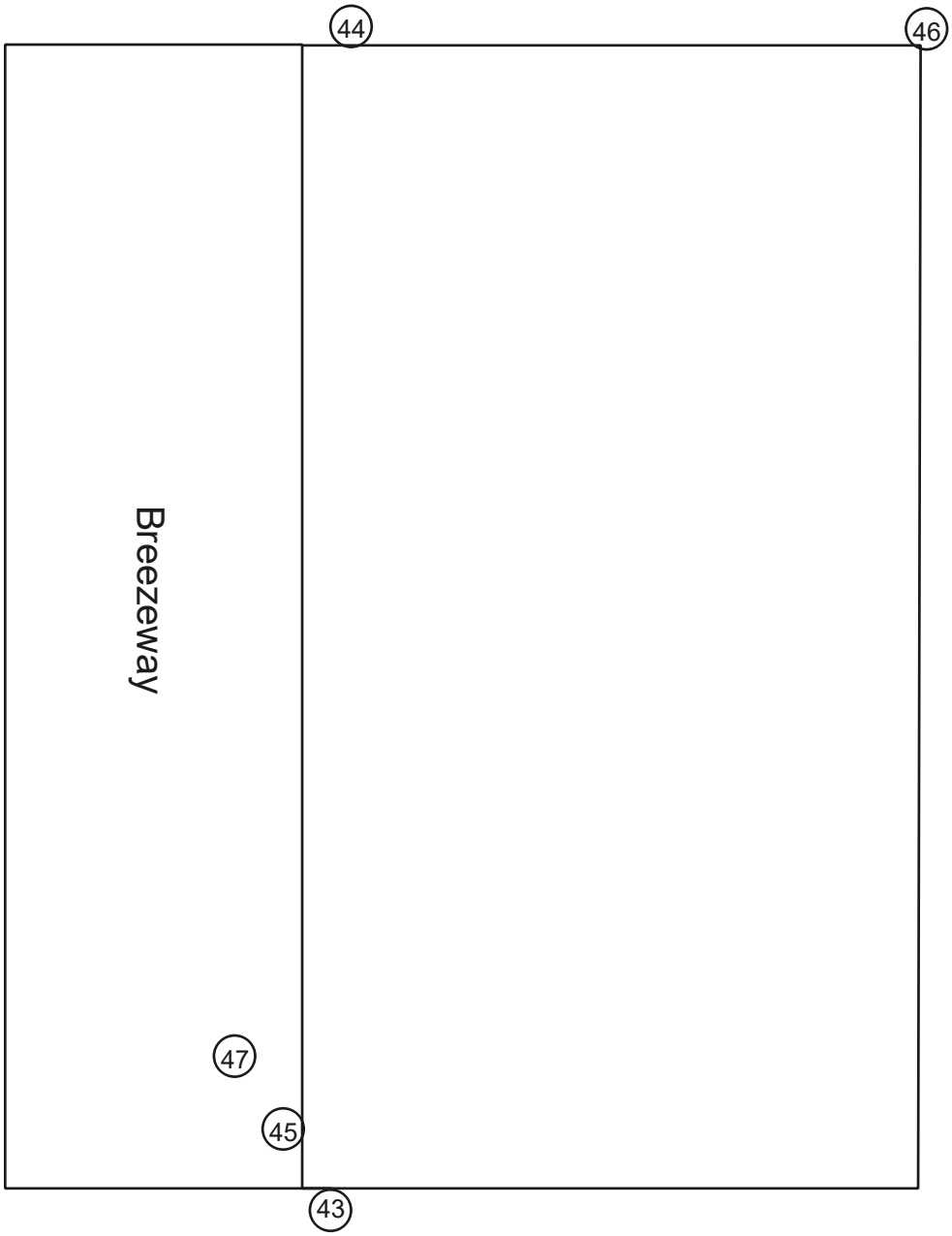


◯ - PLM Sample Location

N

Client: Rosemead SD	**Project #:** 20-Z0046-0134	**Info:** PLM Sample Location
EXECUTIVE ENVIRONMENTAL **HEALTH & SAFETY SIMPLIFIED**		**Site:** Janson Elementary School **Adress:** 8628 Marshall Avenue Rosemead, California, 91170

Restroom Building 1
Exterior

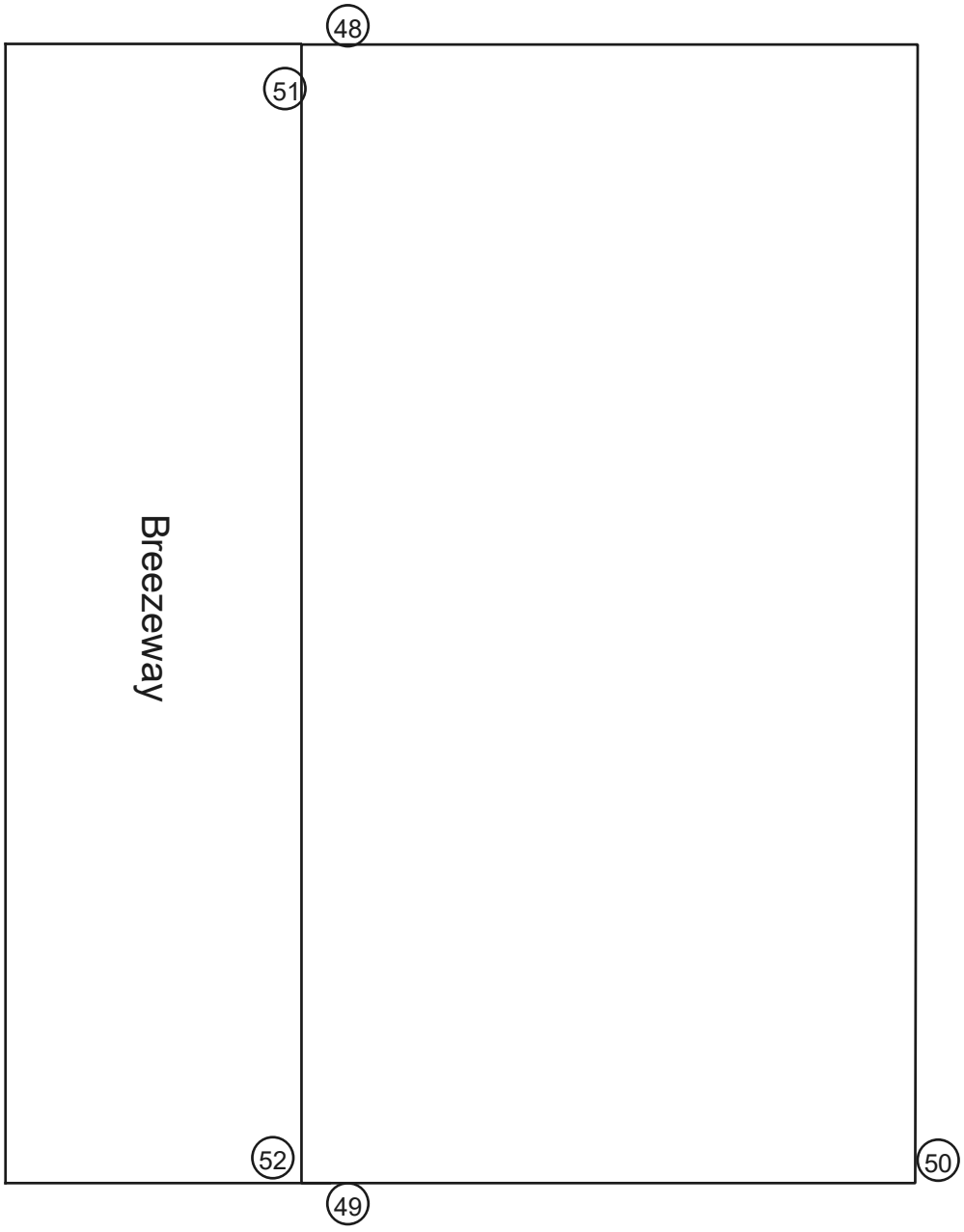


◯ - PLM Sample Location

N

Client: Rosemead SD	**Project#:** 20-Z0046--0134	**Info:** PLM Sample Location
EXECUTIVE ENVIRONMENTAL HEALTH & SAFETY SIMPLIFIED		**Site:** Janson Elementary School **Address:** 8628 East Marshall Avenue Rosemead, CA 91770

Restroom Building 2
Exterior

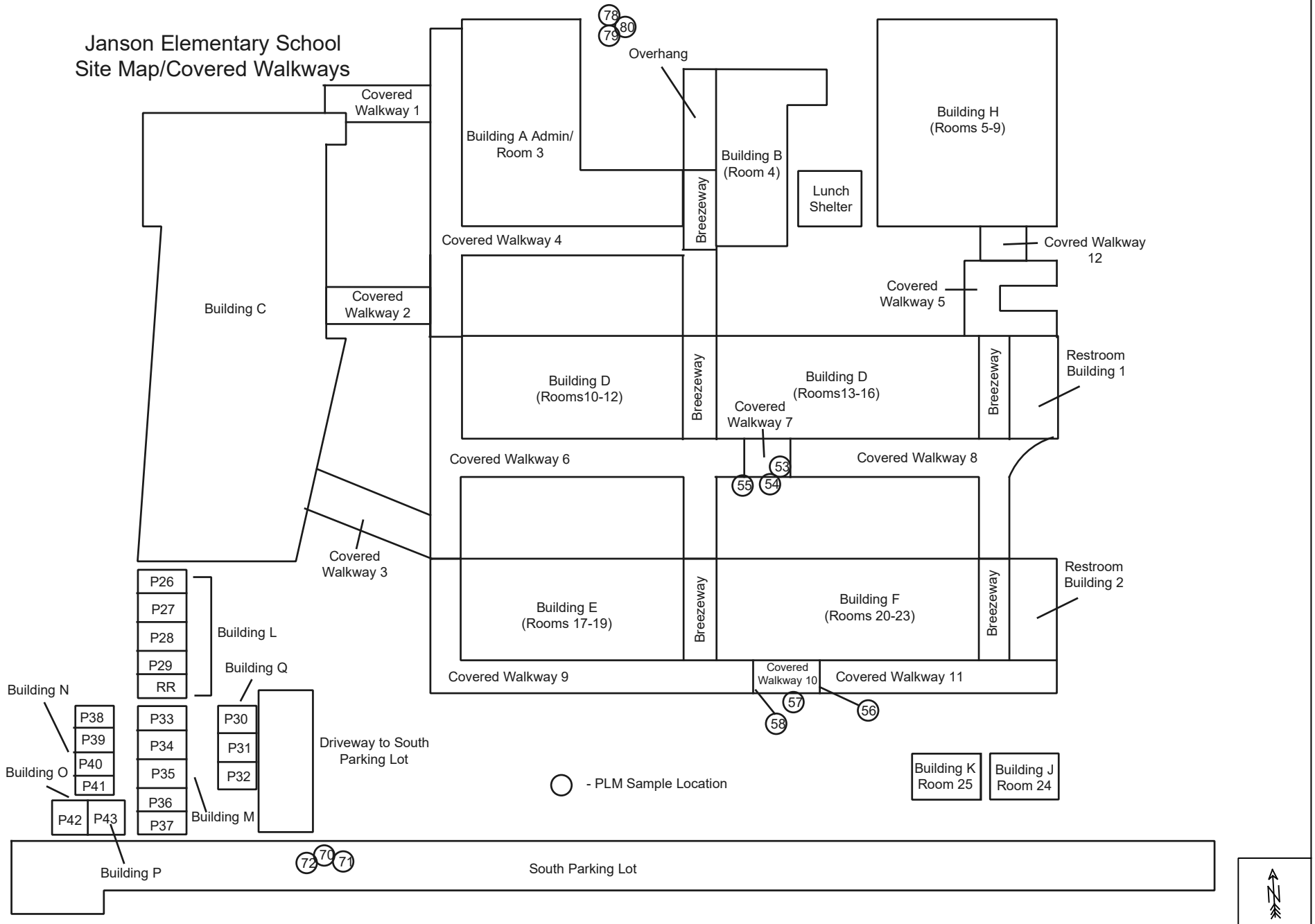


◯ - PLM Sample Location

N

Client: Rosemead SD	**Project#:** 20-Z0046-0134	**Info:** PLM Sample Location
EXECUTIVE ENVIRONMENTAL **HEALTH & SAFETY SIMPLIFIED**		**Site:** Janson Elementary School **Address:** 8628 East Marshall Avenue Rosemead, CA 91770

Janson Elementary School
Site Map/Covered Walkways

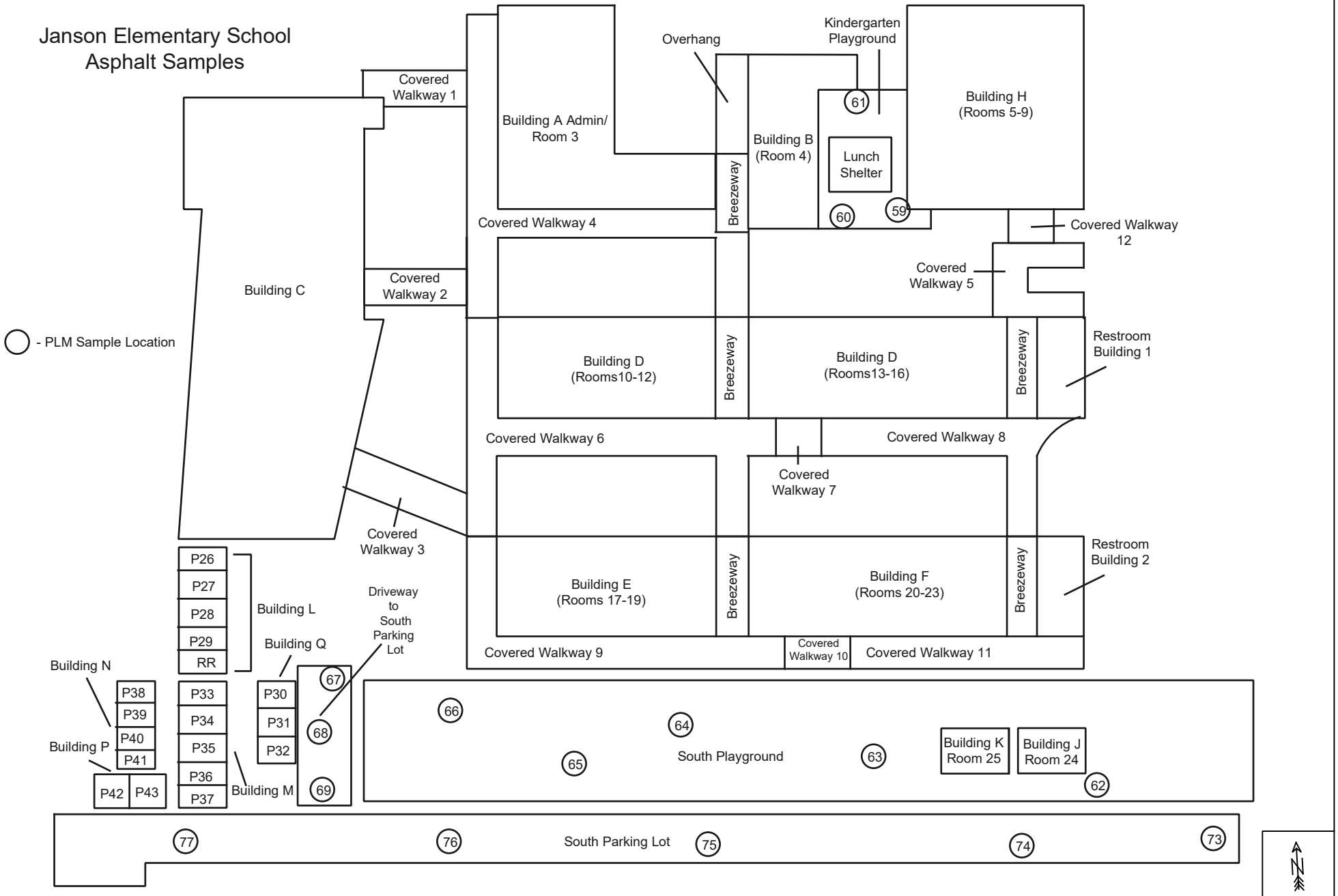


Client: Rosemead SD	**Project #:** 20-Z0046-0134	**Info:** PLM Sample Location

EXECUTIVE ENVIRONMENTAL
HEALTH & SAFETY SIMPLIFIED

Site: Janson Elementary School
Adress: 8628 Marshall Avenue
Rosemead, California, 91170

Janson Elementary School
Asphalt Samples



Client: Rosemead SD	**Project #:** 20-Z0046-0134	**Info:** PLM Sample Location

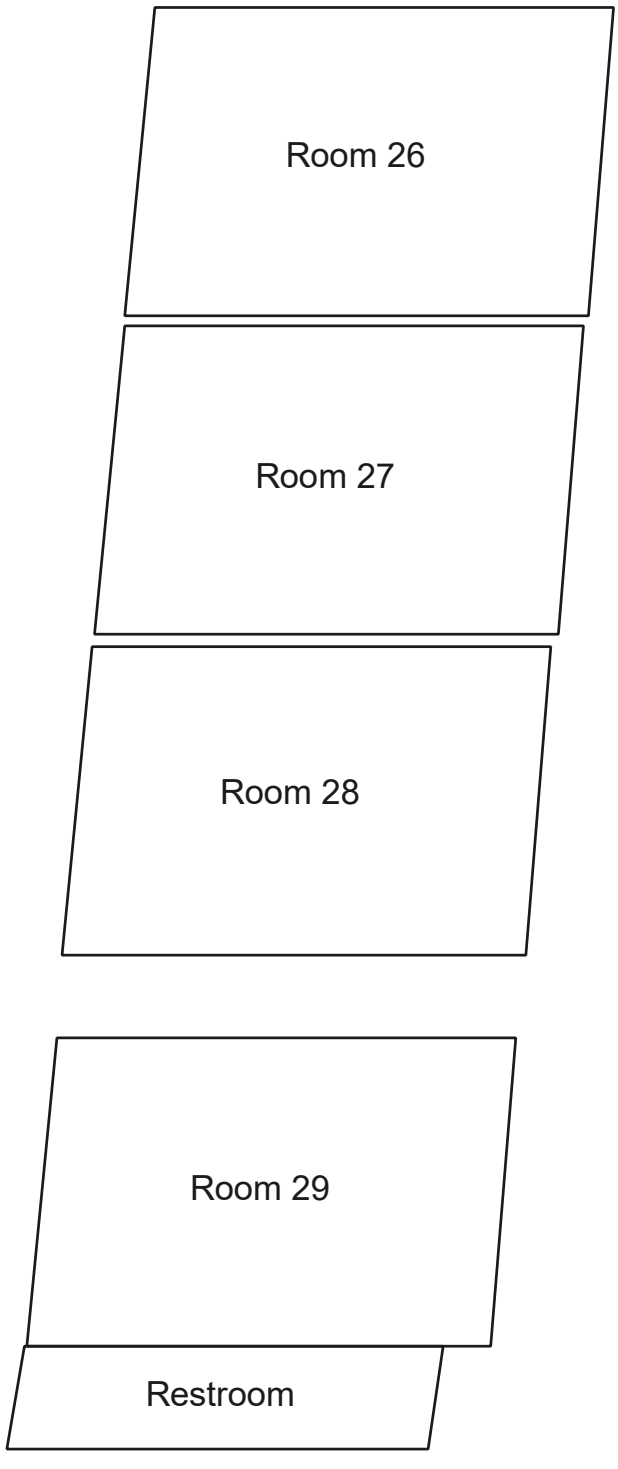
EXECUTIVE ENVIRONMENTAL
HEALTH & SAFETY SIMPLIFIED

Site: Janson Elementary School
Adress: 8628 Marshall Avenue
Rosemead, California, 91170

Portables
Building K and Building J
Exterior

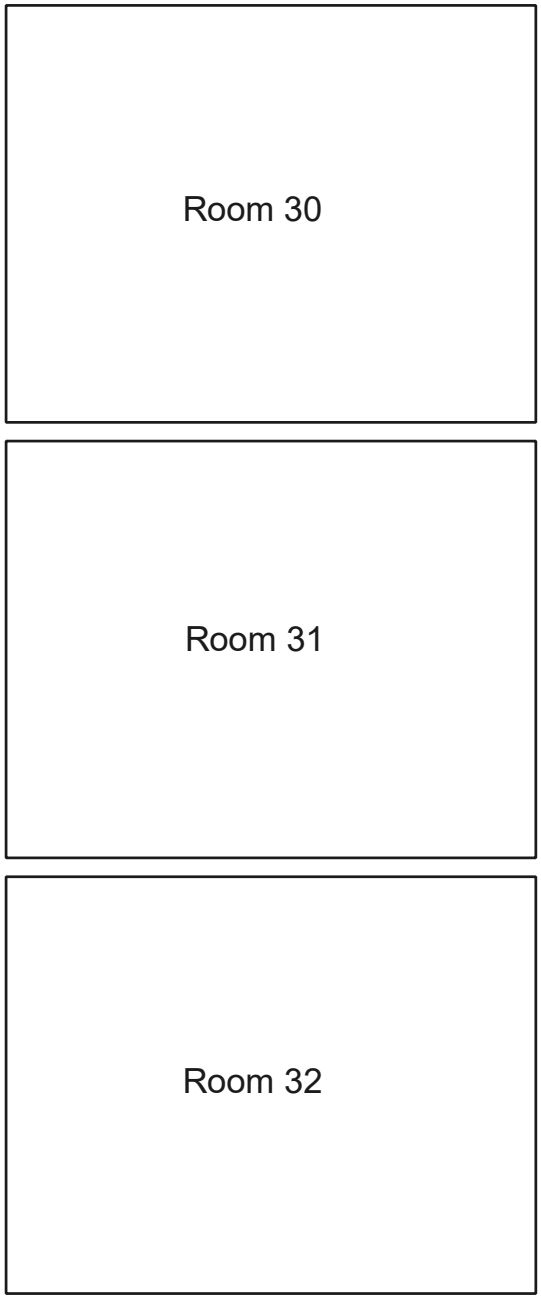
Client: Rosemead SD	**Project #:** 20-Z0046-0134	**Info:** No PLMs Collected
EXECUTIVE ENVIRONMENTAL **HEALTH & SAFETY SIMPLIFIED**		**Site:** Janson Elementary School **Adress:** 8628 Marshall Avenue Rosemead, California, 91170

Portables
Building L
Exterior



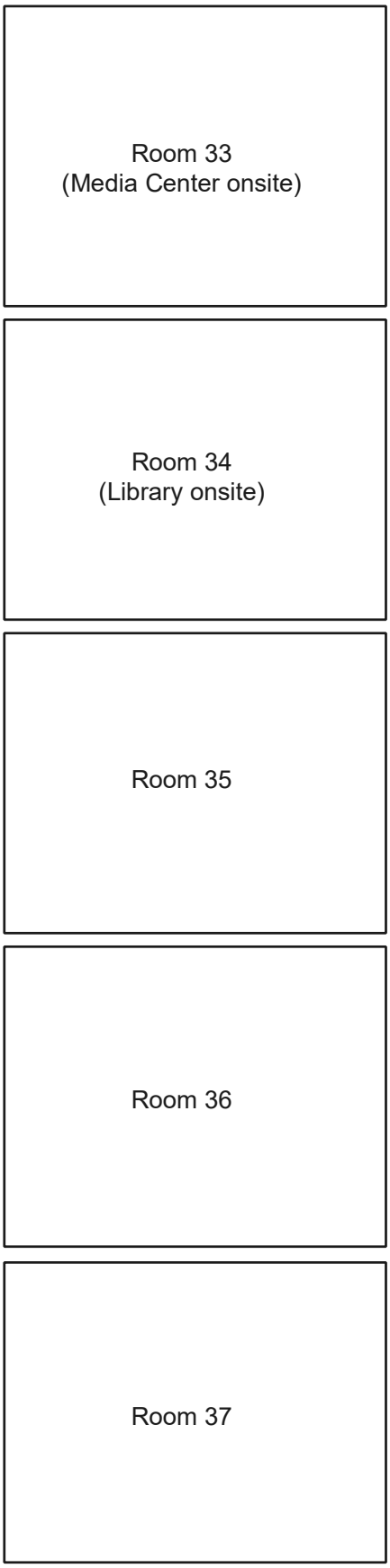
Client: Rosemead SD	**Project#:** 20-Z0046-0134	**Info:** No PLMs Collected
EXECUTIVE ENVIRONMENTAL **HEALTH & SAFETY SIMPLIFIED**		**Site:** Janson Elementary School **Address:** 8628 Marshall Avenue Rosemead, CA 91770

Building Q (Portables 30 through 32)
Exterior



Client: Rosemead SD	**Project#:** 20-Z0046-0134	**Info:** No PLMs Collected
EXECUTIVE ENVIRONMENTAL HEALTH & SAFETY SIMPLIFIED		**Site:** Janson Elementary School **Address:** 8628 Marshall Avenue Rosemead, CA 91770

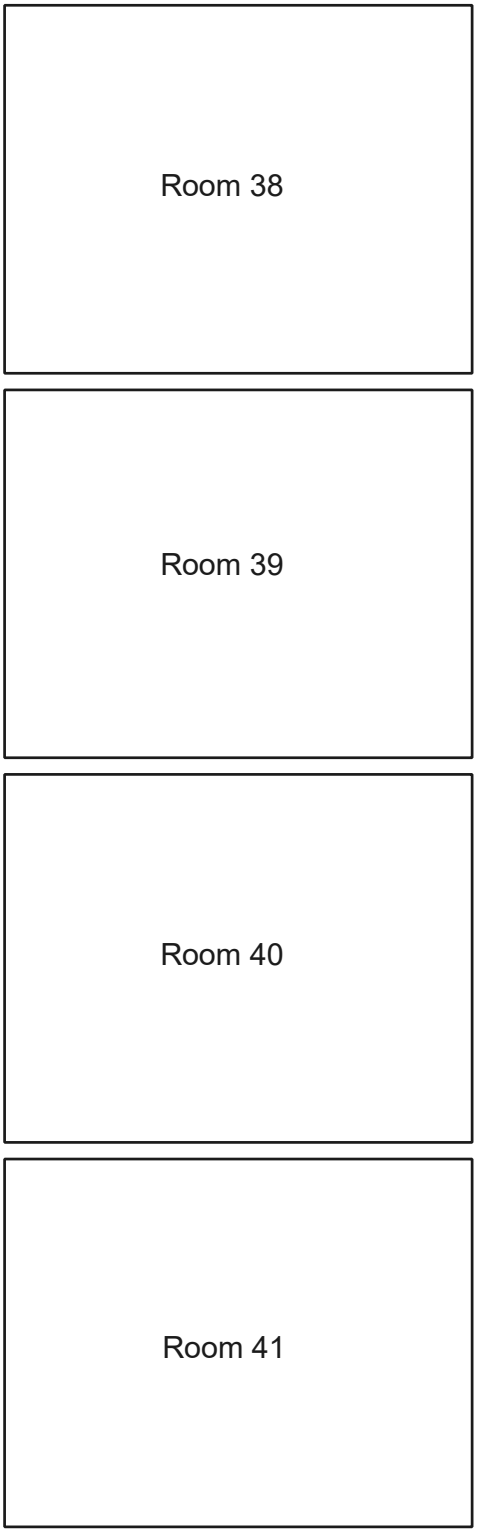
Building M
Portables



N

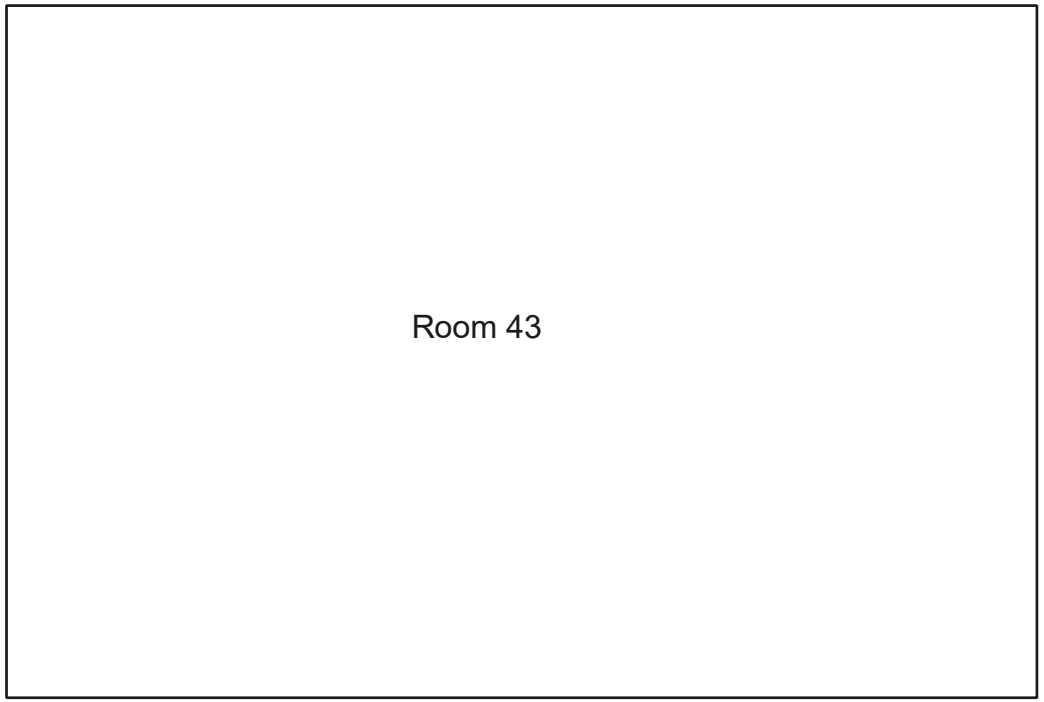
Client: Rosemead SD	**Project#:** 20-Z0046-0134	**Info:** No PLMs Collected
EXECUTIVE ENVIRONMENTAL **HEALTH & SAFETY SIMPLIFIED**		**Site:** Janson Elementary School **Address:** 8628 Marshall Avenue Rosemead, CA 91770

Building N (Portables 38 through 41)
Exteriors



Client: Rosemead SD	**Project#:** 20-Z0046-0134	**Info:** No PLMs Collected
EXECUTIVE ENVIRONMENTAL HEALTH & SAFETY SIMPLIFIED		**Site:** Janson Elementary School **Address:** 8628 Marshall Avenue Rosemead, CA 91770

Building P
Exterior



Client: Rosemead SD

Project #: 20-Z0046-0134

Info: No PLMs Collected

EXECUTIVE ENVIRONMENTAL
HEALTH & SAFETY SIMPLIFIED

Site: Janson Elementary School
Adress: 8628 Marshall Avenue
Rosemead, California, 91170

APPENDIX C – STAFF CERTIFICATION

State of California
Division of Occupational Safety and Health
Certified Asbestos Consultant

Rhys D Kuzmic
Name

Certification No. **09-4586**

Expires on **01/20/21**

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.

APPENDIX B – LIMITED LEAD-BASED PAINT INSPECTION REPORT DATED JANUARY 22, 2021

EXECUTIVE ENVIRONMENTAL
HEALTH & SAFETY SIMPLIFIED

Industrial Hygiene • Air Quality • Lead & Asbestos • Training • Health & Safety

LIMITED LEAD-BASED PAINT/CERAMIC TILE INSPECTION REPORT

Conducted at:

JANSON ELEMENTARY SCHOOL
PAINTING PROJECT
8628 MARSHALL AVENUE
ROSEMEAD, CALIFORNIA 91770

Prepared for:

MR. HAROLD SULLINS
ASSISTANT SUPERINTENDENT
ROSEMEAD SCHOOL DISTRICT
3907 ROSEMEAD BOULEVARD, SUITE 220
ROSEMEAD, CALIFORNIA 91770

Prepared by:

EXECUTIVE ENVIRONMENTAL
310 EAST FOOTHILL BOULEVARD, SUITE 200
ARCADIA, CALIFORNIA 91006

Project Number EE 20-Z0046-0134
January 22, 2021

Report generated/reviewed by:

Yesenia G. Galeana
Technical Report Writer
Executive Environmental

Report assembled by:

Tim Galeana, CLP
Senior Project Manager
Executive Environmental

Table of Contents

LIMITED LEAD-BASED PAINT INSPECTION

Project Number:	EE 20-Z0046-0134
Client:	Rosemead School District 3907 Rosemead Boulevard, Suite 220 Rosemead, California 91770
Site Location:	Janson Elementary School Painting Project 8628 Marshall Avenue Rosemead, California 91770
Site Use:	School Property
Contact Person:	Mr. Harold Sullins Assistant Superintendent Phone: (626) 312-2900
Inspection Date Between:	November 9 through 19, 2020
Inspected By:	Mr. Tim Galeana Certified Lead Professional, CDPH #0395
Report Assembled By:	Ms. Yesenia G. Galeana Technical Report Writer
Report Generated/Reviewed By:	Mr. Tim Galeana Certified Lead Professional, CDPH # 3732

I. EXECUTIVE SUMMARY

Executive Environmental (EE) provided the services of a Certified Lead Professional (CLP) to conduct a limited lead-based paint inspection of the permanent buildings, portables and covered walkways at Janson Elementary School located at 8628 Marshall Avenue, Rosemead, California. The inspection was conducted as a precursor to the upcoming exterior painting project. EE provided a California Department of Public Health Certified Lead Inspector to conduct the inspection. Regulated lead-based paint was detected during this inspection. EE's Certified Lead Professional conducted these services between November 9 through 19, 2020.

II. SAMPLING PROTOCOL

According to the United States Department of Housing and Urban Development's (HUD) guideline document, Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing, and Section 1017 of Title X, Residential Lead-Based Paint Hazard Reduction Act of 1992, Public Law 102-550, paint found to have a lead concentration of

at least 1.0 mg/cm^2 (milligrams per centimeter squared) by X-Ray Fluorescence (XRF), or 0.5 percent (5000 parts per million) by weight, is regulated as lead-based paint.

Los Angeles County Childhood Lead Poisoning Prevention Program, established in 1991, further regulates that paint found to have a lead concentration greater than 0.7 mg/cm^2 via XRF readings, or 0.06 weight-to-weight percent by Atomic Absorption Spectrometry (AAS) analysis, is considered to be lead-based paint. The Los Angeles County 0.7 mg/cm^2 action level was used for determining the lead content in this inspection because it is more stringent than the HUD Guidelines.

Any material containing any detectable level of lead is subject to the Occupational Safety and Health Administration's (OSHA) Lead Exposure in Construction Rule 29 Code of Federal Regulation (CFR) 1926.62 and California Code of Regulations Title 8, Section 1532.1 Lead (8CCR1532.1) and Title 8, Section 5198, Lead (8CCR5198). All work that disturbs this type of material must be performed in accordance with this and any other applicable standards.

All facilities built prior to 1979 for residential buildings and prior to 1993 for schools are suspect for lead-containing materials. Federal and state regulations recognize only the following methods of identification: analysis by an XRF instrument, paint bulk sample collection and analysis, or a combination of both. This inspection was conducted via XRF instrumentation. The parameters used to interpret the XRF results are outlined in the HUD guidelines and the XRF Performance Characteristics Sheets (PCS).

III. SAMPLING METHODOLOGY

A visual inspection of the exterior of the permanent buildings, portables and covered walkways at Janson Elementary School was conducted by EE's CLP to identify major site features and surfaces and/or components suspected of being coated with lead-based paint. After identifying the materials suspected of being coated with lead-based paint, EE grouped the components, substrates, and room equivalents into testing combinations. A testing combination is defined as the room equivalent, component, and substrate. A room equivalent is an identifiable part of a building (e.g. classrooms, restrooms, mechanical rooms, exterior). Color does not accurately indicate painting history, and is not included when assigning testing combinations. If there was any reason to suspect that materials may have been installed or painted at different times, even though they appear uniform, they were assigned to separate testing combinations.

Following the visual inspection, screening for the presence of lead-based paint or ceramic glaze was performed on-site using a portable XRF instrument. The XRF has the ability to measure lead content in paint and ceramic glaze within the range of 0 to 50 milligrams per centimeter squared (mg/cm^2). The on-site inspection capability of the XRF instrument typically reduces the number of paint-chip samples that may need to be collected and sent for laboratory analysis. The portable XRF instrument used in this inspection was manufactured by Heuresis.

The following specifications apply to the Viken Detection XRF (formerly Heuresis):

- Ability to report Positive and Negative determination at 1.0mg lead/cm^2 with 2-sigma confidence with measurement time of 1-3 nominal seconds on mast lead paint samples.

- Detects lead at 0.1 mg/cm^2 with 2-sigma confidence with a measurement time of 1 second on most samples.
- Equipped with a ^{57}Co sealed source, 5mCi (185 MBq), radioactive source. Substrate effects are automatically corrected through a complex algorithm and calibration.

IV. SAMPLE ANALYSIS

According to local, state and federal standards, the following surfaces and/or components that were analyzed with the Viken Detection XRF instrument during this inspection are considered to be coated with a regulated lead-based paint.

XRF SAMPLE ANALYSIS DATA
Janson Elementary School
8628 Marshall Avenue
Rosemead, California 91770

Location	Component	Substrate	Estimate Quantity	XRF Result Mg/cm^2
Building A (Administration/Room 3)[1]				
Exterior, side C	Wall panel frame	Wood	12 Linear feet (1 total)	6.7
Exterior, side A at room 3	Door frame	Wood	1 Total	6.4
	Transom frame	Wood	1 Total	3.1
Exterior, sides A and C at lower roof	Eave components	Wood	720 Square Feet	3.1-4.1
Exterior, side A	Window trim/casing	Wood	155 Linear Feet	7.8
Building B (Room 4)[2]				
Exterior, sides A and B	Window components	Wood	85 Linear Feet	1-1.4
Exterior, northeast corner	Window riser	Wood	4 Linear Feet	7.4
Exterior, sides A and B	Eave components	Wood	210 Square Feet	1.7-4.4
Building C (Multi-Purpose Room)[3]				
No regulated lead-based paint was identified on exterior surfaces and/or components of Building C (Multi-Purpose Room) anticipated to be impacted by the Exterior Painting Project.				

Note: This table must be used in conjunction with the entire report.

[1] NOTE: 1) Metal window frames, not coated.
[2] NOTE: 1) Metal window frames, not coated.
[3] NOTE: 1) Metal window frames, not coated.

XRF SAMPLE ANALYSIS DATA

Janson Elementary School
8628 Marshall Avenue
Rosemead, California 91770

Location	Component	Substrate	Estimate Quantity	XRF Result Mg/cm^2
Building D (Classrooms 10 thru 12)[4]				
Exterior, side C	Wall panel frame	Wood	12 Linear feet (1 total)	8.4
Exterior, side A at classrooms	Window casing	Wood	250 Linear Feet	10.2-10.5
Exterior, side A at entries	Wall trim	Wood	8 Linear Feet	9.1
Exterior, side A at classrooms 11 and 12	Door frame	Wood	2 Total	8
	Transom frame	Wood	2 Total	4.8
Exterior, sides A and C at upper roof of building and east breezeway	Eave components	Wood	810 Square Feet	1.6-4.3
Building D (Classrooms 13 thru 16)[5]				
Exterior, side D	Wall panel	Metal	2 Square Feet	3.4
Exterior, side C	Fire house cabinet door	Wood	1 Door	2.2
Exterior, sides A and C at east breezeway	Ceiling beam	Wood	18 Linear Feet	1.3
Exterior, side C, at breezeway	Ceiling beam bracket	Metal	2 Total	1.5
Exterior, side A at rooms 13, 14 and 16	Door frame	Wood	3 Total	3.1
	Transom frame	Wood	3 Total	0.9
Exterior, side A at entries	Wall trim	Wood	12 Linear Feet	2.1
Exterior, side A	Window casing	Wood	320 Linear Feet	2.2
Exterior, sides A and C at upper and lower roofs and east breezeway	Eave components	Wood	1,040 Square Feet	1-1.7

Note: This table must be used in conjunction with the entire report.

[4] NOTE: 1) Metal window frames, not coated .
[5] NOTE: 1) Metal window frames, not coated .

XRF SAMPLE ANALYSIS DATA

Janson Elementary School
8628 Marshall Avenue
Rosemead, California 91770

Location	Component	Substrate	Estimate Quantity	XRF Result Mg/cm^2
Building E (Classrooms 17 thru 19)[6]				
Exterior, side D	Wall panel	Metal	2 Square feet	3.5
Exterior, side C	Fire house cabinet door frame	Metal	1 Door	2.2
Exterior, side C, at east breezeway	Ceiling beam	Wood	9 Linear Feet	1.5
Exterior, sides B and D	Ceiling beam bracket	Metal	2 Total	2
Exterior, side A at entries	Wall trim	Wood	9 Linear Feet	7.8
Exterior, side A	Window casing	Wood	250 Linear Feet	9
Exterior, side A at room 18	Door frame	Wood	1 Total	8.1
	Transom frame	Wood	1 Total	1.2
Exterior, sides A and C east breezeway	Eave components	Wood	810 Square Feet	3.9-4.6
Exterior, side C, above walkway	Wall vent	Metal	1 Total	6.7

Note: This table must be used in conjunction with the entire report.

[6] NOTE: 1) Metal window frames, not coated .

XRF SAMPLE ANALYSIS DATA

Janson Elementary School
8628 Marshall Avenue
Rosemead, California 91770

Location	Component	Substrate	Estimate Quantity	XRF Result Mg/cm^2
Building F (Classrooms 20 thru 23)[7]				
Exterior, side C	Fire house cabinet door	Wood	1 Total	6.1
	Fire house cabinet door frame	Metal	1 Total	2.9
Exterior, side C, at east breezeway	Ceiling beam	Wood	9 Linear Feet	4.4
Exterior sides B and D	Ceiling beam bracket	Metal	4 Total	12.9
Exterior, side A at entries	Wall trim	Wood	12 Linear Feet	6.7
Exterior, side A	Window casing	Wood	328 Linear Feet	7.4
Exterior, side A of rooms 20 and 22	Door frame	Wood	2 Total	14.8
	Transom frame	Wood	2 Total	1.6
Exterior, side A and C at upper and lower roofs and east breezeway	Eave components	Wood	1,040 Square Feet	3.4-5.2
Building H (Classrooms 5 thru 9)				
Exterior, sides A and C	Overhang beam	Metal	116 Linear Feet	2.5
Restroom Building 1				
Exterior, sides A, C and D	Ceiling beam bracket	Metal	4 Total	8.6
Exterior, sides A and C	Eave components	Wood	180 Square Feet	1.4-2.8
Exterior, side A	Attic access frame	Metal	1 Total	2.1

Note: This table must be used in conjunction with the entire report.

[7] NOTE: 1) Metal window frames, not coated .

XRF SAMPLE ANALYSIS DATA

Janson Elementary School
8628 Marshall Avenue
Rosemead, California 91770

Location	Component	Substrate	Estimate Quantity	XRF Result Mg/cm^2
Restroom Building 2				
Exterior, sides A and C	Eave components	Wood	180 Square Feet	3.1-4.4
Exterior, side A	Attic access frame	Metal	1 Total	2.7
Exterior, sides A and D	Ceiling beam bracket	Metal	2 Total	1.9
Building J (Portable 24)[8]				
No regulated lead-based paint was identified on exterior surfaces and/or components.				
Building K (Portable 25)[9]				
No regulated lead-based paint was identified on exterior surfaces and/or components.				
Building L (Portables 26 thru 29 and Restroom)[10]				
No regulated lead-based paint was identified on exterior surfaces and/or components.				
Building Q (Portables 30 thru 32)[11]				
No regulated lead-based paint was identified on exterior surfaces and/or components.				
Building M (Portables 33 thru 37)[12]				
No regulated lead-based paint was identified on exterior surfaces and/or components.				
Building N (Portables 38 thru 41)[13]				
No regulated lead-based paint was identified on exterior surfaces and/or components.				

Note: This table must be used in conjunction with the entire report.

[8] NOTE: 1) Metal window components, not coated.
[9] NOTE: 1) Metal window components, not coated.
[10] NOTE: 1) Metal window components at Portables 26-29, not coated.
[11] NOTE: 1) Metal window components, not coated. 2) Wood ramp, no coated.
[12] NOTE: 1) Metal window components, not coated.
[13] NOTE: 1) Metal window components, not coated.

XRF SAMPLE ANALYSIS DATA Janson Elementary School 8628 Marshall Avenue Rosemead, California 91770				
Location	**Component**	**Substrate**	**Estimate Quantity**	**XRF Result Mg/cm^2**
Building O (Portable 42)[14]				
No regulated lead-based paint was identified on exterior surfaces and/or components.				
Building P (Portable 43)[15]				
No regulated lead-based paint was identified on exterior surfaces and/or components.				
Covered Walkways				
Covered Walkway no. 1	Ceiling joist	Wood	180 Linear Feet	1
Covered Walkway no. 2	Ceiling beam	Wood	42 Square Feet	0.8
	Ceiling joist	Wood	165 Linear Feet	0.9
	Joist spacer	Wood	38 Linear Feet	0.7
Covered Walkway no. 4	Ceiling components	Wood	3,100 Square Feet	3-6
Covered Walkway no. 5	Ceiling components	Wood	600 Square Feet	1.1-1.4
	Poles	Metal	16 Total	1.7
Covered Walkway no. 6	Ceiling components	Wood	2,800 Square Feet	2.5-4.2
	Poles	Wood	2 Total	2.2
Covered Walkway no. 7	Ceiling components	Wood	300 Square Feet	1.6-3.5
	Fascia	Wood	32 Linear Feet	0.8
	Drinking fountain	Porcelain	1 Total	3.4
	Poles	Wood	2 Total	0.8

Note: This table must be used in conjunction with the entire report.

[14] NOTE: 1) Metal window components, not coated.
[15] NOTE: 1) Metal window components, not coated.

XRF SAMPLE ANALYSIS DATA

Janson Elementary School
8628 Marshall Avenue
Rosemead, California 91770

Location	Component	Substrate	Estimate Quantity	XRF Result Mg/cm^2
Covered Walkway no. 8	Ceiling components	Wood	1,710 Square Feet	0.7-1.7
	Poles	Wood	9 Total	1.4
Covered Walkway no. 9	Ceiling components	Wood	1,900 Square Feet	0.7-3.3
	Poles	Wood	5 Total	1.9
	Joist brace	Metal	9 Linear Feet	3.4
Covered Walkway no. 10	Ceiling	Wood	300 Square Feet	0.8
	Poles	Wood	5 Total	1.9
Covered Walkway no. 11	Ceiling components	Wood	1,350 Square Feet	1.4-3.3
	Poles	Wood	3 Total	1.8
	Joist braces	Metal	9 Linear Feet	3.4
No regulated lead-based paint was identified on surfaces and/or components of the Covered Walkways no. 3 and 12.				
Campus				
No regulated lead-based paint was identified on surfaces and/or components of the North Playground, Southeast Playground, South Playground, Pre-school Playground, Parking Lots (East, South and Northwest), Storage Shed, School Signs, Flag Pole and Perimeter Fence anticipated to be impacted by the Exterior Painting Project.				
Lunch shelter	Support poles	Metal	8 Total	6.7

Note: This table must be used in conjunction with the entire report.

V. CONCLUSIONS/RECOMMENDATIONS

EE conducted a limited lead-based paint inspection of the permanent buildings, portables and covered walkways at Janson Elementary School located at 8628 Marshall Avenue, Rosemead, California. The inspection was conducted as a precursor for the upcoming Exterior Painting Project. The following conclusions and/or recommendations apply:

Limited Lead-Based Paint Inspection

- Exterior coated surfaces and components of the permanent buildings, portables and covered walkways at Janson Elementary School were tested via the Viken Detection XRF for the presence of lead.
- The items listed in the previous tables were identified as being coated with a regulated lead-based paint.
- The surfaces/components were observed to be in good to fair condition during this inspection.
- A fully representative number of XRF readings were taken at the project site. The results of these assays are presented in the XRF Summary Results spreadsheets.

It is recommended that all renovation, remodelling, construction, or demolition actions that might potentially disturb surfaces covered with lead-based paint and/or ceramic glaze be performed by properly trained and qualified personnel.

VI. DISCLAIMER/REPORT LIMITATIONS

All reports and recommendations are based on conditions and practices observed and information made available to Executive Environmental (EE) by the client and the designated sites/facilities on the days sampling was conducted. This report does not purport to set forth all hazards, nor to indicate that other hazards do not exist. No responsibility is assumed by EE for the control or correction of conditions or practices existing at the facilities, or at any other premises surveyed by EE, for and on the behalf of the client. Services provided by EE shall be governed by the standard of practice for professional services measured at the time those services are rendered.

All information contained in this report is proprietary and limited to the scope of services, parameters of the analytical methods used and the conditions present at the time of this inspection. Any references to quantities are considered estimates and are not to be construed as actual.

APPENDIX A – XRF SUMMARY RESULTS

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Result	Concentration
1	11/9/20			Calibrate				Positive	0.9
2	11/9/20			Calibrate				Positive	1
3	11/9/20			Calibrate				Positive	0.9
4	11/9/20	Building A (Administration/Room 3)	Exterior	Wall	Stucco	A	Intact	Negative	0.5
5	11/9/20	Building A (Administration/Room 3)	Exterior	Wall	Stucco	D	Intact	Negative	0.4
6	11/9/20	Building A (Administration/Room 3)	Exterior	Wall	Stucco	C	Intact	Negative	0.5
7	11/9/20	Building A (Administration/Room 3)	Exterior	Wall	Stucco	B	Intact	Negative	-0.3
8	11/9/20	Building A (Administration/Room 3)	Exterior	Wall	Stucco	A	Intact	Negative	-0.2
9	11/9/20	Building A (Administration/Room 3)	Exterior	Wall	Stucco	B	Intact	Negative	-0.1
10	11/9/20	Building A (Administration/Room 3)	Exterior	Door frame	Metal	A	Intact	Negative	0.1
11	11/9/20	Building A (Administration/Room 3)	Exterior	Door	Metal	A	Intact	Negative	0
12	11/9/20	Building A (Administration/Room 3)	Exterior	Pipe	Metal	A	Intact	Negative	0.1
13	11/9/20	Building A (Administration/Room 3)	Exterior	Door frame	Metal	D	Intact	Negative	0.1
14	11/9/20	Building A (Administration/Room 3)	Exterior	Door	Metal	D	Intact	Negative	-0.1
15	11/9/20	Building A (Administration/Room 3)	Exterior	Door frame	Metal	C	Intact	Negative	0.1
16	11/9/20	Building A (Administration/Room 3)	Exterior	Door	Metal	C	Intact	Negative	0
17	11/9/20	Building A (Administration/Room 3)	Exterior	Door vent	Metal	C	Intact	Negative	0.3
18	11/9/20	Building A (Administration/Room 3)	Exterior	Door frame	Metal	C	Intact	Negative	0.2

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Result	Concentration
19	11/9/20	Building A (Administration/Room 3)	Exterior	Door	Metal	C	Intact	Negative	0
20	11/9/20	Building A (Administration/Room 3)	Exterior	Wall panel	Wood	C	Intact	Negative	0.3
21	**11/9/20**	**Building A (Administration/Room 3)**	**Exterior**	**Wall panel frame**	**Wood**	**C**	**Intact**	**Positive**	**6.7**
22	**11/9/20**	**Building A (Administration/Room 3)**	**Exterior**	**Door frame**	**Wood**	**A**	**Intact**	**Positive**	**6.4**
23	11/9/20	Building A (Administration/Room 3)	Exterior	Door	Wood	A	Intact	Negative	0
24	**11/9/20**	**Building A (Administration/Room 3)**	**Exterior**	**Transom frame**	**Wood**	**A**	**Intact**	**Positive**	**3.1**
25	11/9/20			Calibrate				Positive	1
26	11/9/20			Calibrate				Positive	1
27	11/9/20			Calibrate				Positive	1
28	11/9/20	Building A (Administration/Room 3)	Exterior	Transom	Plexiglass	A	Intact	Negative	0.1
29	11/9/20	Building A (Administration/Room 3)	Exterior	Conduit	Metal	A	Intact	Negative	0.2
30	11/9/20	Building A (Administration/Room 3)	Exterior	Conduit braclet	Metal	A	Intact	Negative	0.2
31	11/9/20	Building A (Administration/Room 3)	Exterior	Electrical box	Metal	A	Intact	Negative	0
32	11/9/20	Building A (Administration/Room 3)	Exterior	Downspout	Metal	B	Intact	Negative	0.1
33	11/9/20	Building A (Administration/Room 3)	Exterior	Gas line	Metal	B	Intact	Negative	0.1
34	11/9/20	Building A (Administration/Room 3)	Exterior	Fence pole	Metal	B	Intact	Negative	0.2
35	11/9/20	Building A (Administration/Room 3)	Exterior: Upper Roof	Parapet cap	Metal	B	Intact	Negative	0.2
36	11/9/20	Building A (Administration/Room 3)	Exterior: Lower Roof	Flashing	Metal	C	Intact	Negative	0.2

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Result	Concentration
37	11/9/20	Building A (Administration/Room 3)	Exterior: Lower Roof	Fascia	Wood	C	Intact	Negative	0
38	**11/9/20**	**Building A (Administration/Room 3)**	**Exterior: Lower Roof**	**Eave**	**Wood**	**C**	**Intact**	**Positive**	**3.1**
39	**11/9/20**	**Building A (Administration/Room 3)**	**Exterior: Lower Roof**	**Eave joist**	**Wood**	**C**	**Intact**	**Positive**	**4.1**
40	**11/9/20**	**Building A (Administration/Room 3)**	**Exterior: Lower Roof**	**Eave spacer**	**Wood**	**C**	**Intact**	**Positive**	**3.6**
41	**11/9/20**	**Building A (Administration/Room 3)**	**Exterior**	**Window trim**	**Wood**	**A**	**Intact**	**Positive**	**7.8**
42	11/9/20	Building A (Administration/Room 3)	Exterior	Award sign	Wood	D	Intact	Negative	0.1
43	11/9/20	Building A (Administration/Room 3)	Exterior at Door Swing	Floor stripe	Concrete	C	Intact	Negative	0.2
44	11/9/20			Calibrate				Positive	1
45	11/9/20			Calibrate				Positive	1
46	11/9/20			Calibrate				Positive	1
47	11/9/20	Building A (Administration/Room 3)	Exterior	Patio	Concrete	A	Intact	Negative	0.2
48	11/9/20			Calibrate				Positive	1
49	11/9/20			Calibrate				Positive	1
50	11/9/20			Calibrate				Positive	1
51	11/10/20			Calibrate				Positive	1
52	11/10/20			Calibrate				Positive	1
53	11/10/20			Calibrate				Positive	1
54	11/10/20	Building B (Room 4)	Exterior	Wall	Stucco	A	Intact	Negative	0.5
55	11/10/20	Building B (Room 4)	Exterior	Wall	Stucco	B	Intact	Negative	-0.2
56	11/10/20	Building B (Room 4)	Exterior	Wall	Stucco	C	Intact	Negative	0.4
57	11/10/20	Building B (Room 4)	Exterior	Wall	Stucco	B	Intact	Negative	0.5
58	11/10/20	Building B (Room 4)	Exterior	Wall	Stucco	C	Intact	Negative	0.2
59	11/10/20	Building B (Room 4)	Exterior	Wall	Stucco	D	Intact	Negative	0
60	11/10/20	Building B (Room 4)	Exterior at Drinking Fountain	Wall tile	Ceramic	D	Intact	Negative	-0.2

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Result	Concentration
61	11/10/20	Building B (Room 4)	Exterior at Drinking Fountain	Hand rail	Metal	D	Intact	Negative	0.2
62	11/10/20	Building B (Room 4)	Exterior	Double drinking fountain	Porcelain	D	Intact	Negative	0.1
63	11/10/20	Building B (Room 4)	Exterior	Single drinking fountain	Porcelain	D	Intact	Negative	-0.2
64	11/10/20	Building B (Room 4)	Exterior	Door frame	Metal	D	Intact	Negative	0.3
65	11/10/20	Building B (Room 4)	Exterior	Door	Metal	D	Intact	Negative	0.1
66	11/10/20	Building B (Room 4)	Exterior	Fence post	Metal	D	Intact	Negative	0.2
67	11/10/20	Building B (Room 4)	Exterior	Electrical box	Metal	D	Intact	Negative	0
68	11/10/20	Building B (Room 4)	Exterior	Conduit	Metal	D	Intact	Negative	0
69	11/10/20	Building B (Room 4)	Exterior	Conduit bracket	Metal	D	Intact	Negative	0.1
70	11/10/20	Building B (Room 4)	Exterior	Door frame	Metal	D	Intact	Negative	0.1
71	11/10/20	Building B (Room 4)	Exterior	Door	Metal	D	Intact	Negative	0
72	11/10/20	Building B (Room 4)	Exterior	Door vent	Metal	D	Intact	Negative	0
73	11/10/20	Building B (Room 4)	Exterior	Breezeway ceiling	Stucco	Upper	Intact	Negative	-0.2
74	11/10/20	Building B (Room 4)	Exterior	Overhang ceiling	Stucco	Upper	Intact	Negative	-0.3
75	11/10/20	Building B (Room 4)	Exterior	Overhang support pole	Metal	D	Intact	Negative	0.4
76	11/10/20	Building B (Room 4)	Exterior	Hand rail	Metal	D	Peeling	Negative	0.2
77	**11/10/20**	**Building B (Room 4)**	**Exterior**	**Window casing**	**Wood**	**A**	**Intact**	**Positive**	**1.4**
78	**11/10/20**	**Building B (Room 4)**	**Exterior**	**Window trim**	**Wood**	**A**	**Intact**	**Positive**	**1**
79	**11/10/20**	**Building B (Room 4)**	**Exterior**	**Window riser**	**Wood**	**A**	**Intact**	**Positive**	**7.4**
80	11/10/20	Building B (Room 4)	Exterior	Door frame	Metal	B	Intact	Negative	0.2
81	11/10/20	Building B (Room 4)	Exterior	Door	Metal	B	Intact	Negative	0.1
82	11/10/20	Building B (Room 4)	Exterior	Conduit	Metal	B	Intact	Negative	0.1

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Result	Concentration
83	11/10/20	Building B (Room 4)	Exterior	Fascia	Wood	A	Intact	Negative	0.1
84	11/10/20	Building B (Room 4)	Exterior	Flashing	Metal	A	Intact	Negative	0.3
85	**11/10/20**	**Building B (Room 4)**	**Exterior**	**Eave**	**Wood**	**A**	**Intact**	**Positive**	**1.7**
86	**11/10/20**	**Building B (Room 4)**	**Exterior**	**Eave joist**	**Wood**	**A**	**Intact**	**Positive**	**4.4**
87	11/10/20	Building B (Room 4)	Exterior	Gutter	Metal	C	Intact	Negative	0.1
88	11/10/20	Building B (Room 4)	Exterior	Downspout	Metal	C	Intact	Negative	0.1
89	11/10/20	Building B (Room 4)	Exterior	Parapet cap	Metal	A	Intact	Negative	0.2
90	11/10/20	Building B (Room 4)	Exterior	Conduit	Metal	Roof	Intact	Negative	0.1
91	11/10/20	Building B (Room 4)	Exterior	Vent pipe cap	Metal	Roof	Intact	Negative	0.1
92	11/10/20	Building B (Room 4)	Exterior	Conduit	Metal	C	Intact	Negative	0.1
93	11/10/20	Building B (Room 4)	Exterior	Electrical box	Metal	C	Intact	Negative	0
94	11/10/20	Building B (Room 4)	Exterior	Conduit bracket	Metal	C	Intact	Negative	-0.1
95	11/10/20	Building B (Room 4)	Exterior at Door Swing	Floor stripe	Concrete	D	Intact	Negative	0.3
96	11/10/20	Lunch Shelter	Exterior	Flashing	Metal	A	Intact	Negative	0.1
97	11/10/20	Lunch Shelter	Exterior	Fascia	Wood	B	Intact	Negative	-0.1
98	11/10/20	Lunch Shelter	Exterior	Ceiling	Wood	B	Intact	Negative	0.1
99	11/10/20	Lunch Shelter	Exterior	Joist	Wood	Upper	Intact	Negative	0
100	11/10/20	Lunch Shelter	Exterior	Ceiling beam	Wood	Upper	Intact	Negative	0
101	**11/10/20**	**Lunch Shelter**	**Exterior**	**Support pole**	**Metal**		**Intact**	**Positive**	**6.7**
102	11/10/20	North Playground	Exterior	Swing set	Metal		Intact	Negative	0.2
103	11/10/20	North Playground	Exterior	Structure support pole	Metal		Intact	Negative	0.2
104	11/10/20	North Playground	Exterior	Hand rail	Metal		Intact	Negative	0
105	11/10/20	North Playground	Exterior	Basket pole	Metal		Intact	Negative	0
106	11/10/20	North Playground	Exterior	Paint board pole	Metal		Intact	Negative	0.1
107	11/10/20	North Playground	Exterior at Race Track	Floor stripe	Asphalt		Intact	Negative	0.3
108	11/10/20	North Playground	Exterior at Race Track	Floor stripe	Asphalt		Intact	Negative	0.3
109	11/10/20	North Playground	Exterior at Race Track	Floor stripe	Asphalt		Intact	Negative	0.3
110	11/10/20	North Playground	Exterior	Wall	Cinderblock		Intact	Negative	-0.2
111	11/10/20			Calibrate				Positive	1

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Result	Concentration
112	11/10/20			Calibrate				Positive	1
113	11/10/20			Calibrate				Positive	1.1
114	11/10/20	Building C (Multi-Purpose)	Exterior	Wall	Stucco	A	Intact	Negative	-0.1
115	11/10/20	Building C (Multi-Purpose)	Exterior	Wall	Stucco	B	Intact	Negative	-0.1
116	11/10/20	Building C (Multi-Purpose)	Exterior	Wall	Stucco	C	Intact	Negative	-0.4
117	11/10/20	Building C (Multi-Purpose)	Exterior	Wall	Stucco	D	Intact	Negative	-0.1
118	11/10/20	Building C (Multi-Purpose)	Exterior	Door frame	Metal	A	Intact	Negative	0.4
119	11/10/20	Building C (Multi-Purpose)	Exterior	Door	Metal	A	Intact	Negative	-0.1
120	11/10/20	Building C (Multi-Purpose)	Exterior at Door Swing	Floor stripe	Concrete	A	Intact	Negative	0.1
121	11/10/20	Building C (Multi-Purpose)	Exterior	Window casing	Wood	A	Intact	Negative	0.2
122	11/10/20	Building C (Multi-Purpose)	Exterior	Window trim	Metal	A	Intact	Negative	0.3
123	11/10/20	Building C (Multi-Purpose)	Exterior	Door frame	Metal	B	Intact	Negative	0.1
124	11/10/20	Building C (Multi-Purpose)	Exterior	Door	Metal	B	Intact	Negative	-0.1
125	11/10/20	Building C (Multi-Purpose)	Exterior	Wall vent casing	Wood	B	Intact	Negative	0.4
126	11/10/20	Building C (Multi-Purpose)	Exterior	Double door frame	Metal	B	Intact	Negative	0
127	11/10/20	Building C (Multi-Purpose)	Exterior	Double door	Metal	B	Intact	Negative	0.1
128	11/10/20	Building C (Multi-Purpose)	Exterior	Window panel	Wood	B	Intact	Negative	0
129	11/10/20	Building C (Multi-Purpose)	Exterior	Window panel casing	Wood	B	Intact	Negative	0.3
130	11/10/20	Building C (Multi-Purpose)	Exterior	Window panel frame	Wood	B	Intact	Negative	0.2
131	11/10/20	Building C (Multi-Purpose)	Exterior	Window panel trim	Metal	B	Intact	Negative	0.3
132	11/10/20	Building C (Multi-Purpose)	Exterior	Wall vent	Metal	B	Intact	Negative	0.1
133	11/10/20	Building C (Multi-Purpose)	Exterior	Bell	Metal	B	Intact	Negative	0.3
134	11/10/20	Building C (Multi-Purpose)	Exterior	Door frame	Metal	B	Intact	Negative	0
135	11/10/20	Building C (Multi-Purpose)	Exterior	Door	Metal	B	Intact	Negative	0.1

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Result	Concentration
136	11/10/20	Building C (Multi-Purpose)	Exterior	Covered walkway brace	Metal	B	Intact	Negative	0.1
137	11/10/20	Building C (Multi-Purpose)	Exterior	Awning	Metal	B	Intact	Negative	0.1
138	11/10/20	Building C (Multi-Purpose)	Exterior	Awning frame	Metal	B	Intact	Negative	0.1
139	11/10/20	Building C (Multi-Purpose)	Exterior	Hand rail	Metal	B	Intact	Negative	0.2
140	11/10/20	Building C (Multi-Purpose)	Exterior	Wall at stairs	Stucco	B	Intact	Negative	0.3
141	11/10/20	Building C (Multi-Purpose)	Exterior	Planter wall	Stucco	B	Intact	Negative	0.4
142	11/10/20	Building C (Multi-Purpose)	Exterior	Planter wall	Concrete	B	Intact	Negative	0.3
143	11/10/20	Building C (Multi-Purpose)	Exterior	Conduit	Metal	C	Intact	Negative	0.1
144	11/10/20	Building C (Multi-Purpose)	Exterior	Conduit bracket	Metal	C	Intact	Negative	0.1
145	11/10/20	Building C (Multi-Purpose)	Exterior	Downspout	Metal	C	Intact	Negative	0.3
146	11/10/20	Building C (Multi-Purpose)	Exterior	Electrical box	Metal	C	Intact	Negative	-0.1
147	11/10/20	Building C (Multi-Purpose)	Exterior	Waterline	Metal	C	Intact	Negative	-0.1
148	11/10/20	Building C (Multi-Purpose)	Exterior: Lower Roof	Parapet cap	Metal	A	Intact	Negative	0.2
149	11/10/20	Building C (Multi-Purpose)	Exterior: Upper Roof	Parapet cap	Metal	B	Intact	Negative	0.2
150	11/10/20	Building C (Multi-Purpose)	Exterior: Upper Roof	Flashing	Metal	C	Intact	Negative	0.3
151	11/10/20	Building D (Rooms 10 through 12)	Exterior	Wall	Stucco	A	Intact	Negative	-0.2
152	11/10/20	Building D (Rooms 10 through 12)	Exterior	Wall	Stucco	B	Intact	Negative	-0.2
153	11/10/20	Building D (Rooms 10 through 12)	Exterior	Wall	Stucco	C	Intact	Negative	-0.2
154	11/10/20	Building D (Rooms 10 through 12)	Exterior	Wall	Stucco	D	Intact	Negative	0.1
155	11/10/20	Building D (Rooms 10 through 12)	Exterior	Conduit	Metal	D	Intact	Negative	0.2
156	11/10/20	Building D (Rooms 10 through 12)	Exterior at Light	Wall panel	Metal	D	Intact	Negative	0.3
157	11/10/20	Building D (Rooms 10 through 12)	Exterior at Drinking Fountain	Wall tile	Ceramic	C	Intact	Negative	-0.4

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Result	Concentration
158	11/10/20	Building D (Rooms 10 through 12)	Exterior at Drinking Fountain	Hand rail	Metal	C	Intact	Negative	0.2
159	11/10/20	Building D (Rooms 10 through 12)	Exterior	Drinking fountain	Porcelain	C	Intact	Negative	0.1
160	11/10/20	Building D (Rooms 10 through 12)	Exterior	Door frame	Metal	C	Intact	Negative	0.3
161	11/10/20	Building D (Rooms 10 through 12)	Exterior	Door	Metal	C	Intact	Negative	0
162	11/10/20	Building D (Rooms 10 through 12)	Exterior	Door vent	Metal	C	Intact	Negative	0.1
163	11/10/20	Building D (Rooms 10 through 12)	Exterior	Door frame	Metal	C	Intact	Negative	0.2
164	11/10/20	Building D (Rooms 10 through 12)	Exterior	Door	Metal	C	Intact	Negative	0.1
165	11/10/20	Building D (Rooms 10 through 12)	Exterior at Door Swing	Floor stripe	Concrete	C	Intact	Negative	0.1
166	11/10/20	Building D (Rooms 10 through 12)	Exterior	Wall panel	Wood	C	Intact	Negative	0
167	**11/10/20**	**Building D (Rooms 10 through 12)**	**Exterior**	**Wall panel frame**	**Wood**	**C**	**Intact**	**Positive**	**8.4**
168	11/10/20	Building D (Rooms 10 through 12)	Exterior	Breezeway ceiling	Stucco	Upper	Intact	Negative	0
169	11/10/20	Building D (Rooms 10 through 12)	Exterior at Breezeway Ceiling	Conduit	Metal	Upper	Intact	Negative	0.3
170	11/10/20	Building D (Rooms 10 through 12)	Exterior at Breezeway Ceiling	Ceiling beam	Wood	Upper	Intact	Negative	0.5
171	**11/10/20**	**Building D (Rooms 10 through 12)**	**Exterior**	**Window casing**	**Metal**	**A**	**Intact**	**Positive**	**10.5**
172	11/10/20	Building D (Rooms 10 through 12)	Exterior	Door frame	Metal	A	Intact	Negative	-0.1
173	11/10/20	Building D (Rooms 10 through 12)	Exterior	Door	Metal	A	Intact	Negative	-0.1

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Result	Concentration
174	**11/10/20**	**Building D (Rooms 10 through 12)**	**Exterior**	**Wall trim**	**Wood**	**A**	**Intact**	**Positive**	**9.1**
175	**11/10/20**	**Building D (Rooms 10 through 12)**	**Exterior**	**Door frame**	**Wood**	**A**	**Intact**	**Positive**	**8**
176	11/10/20	Building D (Rooms 10 through 12)	Exterior	Door	Wood	A	Intact	Negative	0
177	11/10/20	Building D (Rooms 10 through 12)	Exterior	Transom	Plexiglass	A	Intact	Negative	0.2
178	**11/10/20**	**Building D (Rooms 10 through 12)**	**Exterior**	**Transom frame**	**Wood**	**A**	**Intact**	**Positive**	**4.8**
179	**11/10/20**	**Building D (Rooms 10 through 12)**	**Exterior**	**Window casing**	**Wood**	**A**	**Intact**	**Positive**	**10.2**
180	11/10/20	Building D (Rooms 10 through 12)	Exterior	Patio	Concrete	A	Intact	Negative	0.1
181	11/10/20	Building D (Rooms 10 through 12)	Exterior: Lower Roof	Flashing	Metal	D	Intact	Negative	0.2
182	11/10/20	Building D (Rooms 10 through 12)	Exterior: Lower Roof	Fascia	Wood	D	Intact	Negative	0.1
183	11/10/20	Building D (Rooms 10 through 12)	Exterior Above Covered Walkway	Conduit	Metal	C	Intact	Negative	0.1
184	11/10/20	Building D (Rooms 10 through 12)	Exterior Above Covered Walkway	Conduit bracket	Metal	C	Intact	Negative	0.1
185	11/10/20	Building D (Rooms 10 through 12)	Exterior: Upper Roof	Flashing	Metal	C	Intact	Negative	0.1
186	11/10/20	Building D (Rooms 10 through 12)	Exterior: Upper Roof	Fascia	Wood	C	Intact	Negative	0
187	**11/10/20**	**Building D (Rooms 10 through 12)**	**Exterior: Upper Roof**	**Eave**	**Wood**	**C**	**Intact**	**Positive**	**1.6**
188	**11/10/20**	**Building D (Rooms 10 through 12)**	**Exterior: Upper Roof**	**Eave joist**	**Wood**	**C**	**Intact**	**Positive**	**4.3**
189	**11/10/20**	**Building D (Rooms 10 through 12)**	**Exterior: Upper Roof**	**Eave spacer**	**Wood**	**C**	**Intact**	**Positive**	**3.4**
190	11/10/20			Calibrate				Positive	1.1

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Result	Concentration
191	11/10/20			Calibrate				Positive	1
192	11/10/20			Calibrate				Positive	1
193	11/12/20			Calibrate				Positive	0.9
194	11/12/20			Calibrate				Positive	1
195	11/12/20			Calibrate				Positive	0.9
196	11/12/20	Building D (Rooms 13 through 16)	Exterior	Wall	Stucco	A	Intact	Negative	0
197	11/12/20	Building D (Rooms 13 through 16)	Exterior	Wall	Stucco	B	Intact	Negative	-0.4
198	11/12/20	Building D (Rooms 13 through 16)	Exterior	Wall	Stucco	C	Intact	Negative	0.5
199	11/12/20	Building D (Rooms 13 through 16)	Exterior	Wall	Stucco	D	Intact	Negative	0
200	11/12/20	Building D (Rooms 13 through 16)	Exterior	Conduit	Metal	D	Intact	Negative	0.3
201	11/12/20	Building D (Rooms 13 through 16)	Exterior	Electrical box	Metal	D	Intact	Negative	0.2
202	**11/12/20**	**Building D (Rooms 13 through 16)**	**Exterior**	**Wall panel**	**Metal**	**D**	**Intact**	**Positive**	**3.4**
203	11/12/20	Building D (Rooms 13 through 16)	Exterior	Door frame	Metal	C	Intact	Negative	0.2
204	11/12/20	Building D (Rooms 13 through 16)	Exterior	Door	Metal	C	Intact	Negative	0
205	11/12/20	Building D (Rooms 13 through 16)	Exterior at Door Swing	Floor stripe	Concrete	C	Intact	Negative	0.2
206	11/12/20	Building D (Rooms 13 through 16)	Exterior	Hand rail	Metal	C	Intact	Negative	0.1
207	11/12/20	Building D (Rooms 13 through 16)	Exterior	Conduit	Metal	C	Intact	Negative	0.1
208	11/12/20	Building D (Rooms 13 through 16)	Exterior	Electrical box	Metal	C	Intact	Negative	0.1
209	**11/12/20**	**Building D (Rooms 13 through 16)**	**Exterior**	**Fire hose cabinet door**	**Wood**	**C**	**Intact**	**Positive**	**2.2**

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Result	Concentration
210	11/12/20	Building D (Rooms 13 through 16)	Exterior	Fire hose cabinet doorframe	Metal	C	Intact	Negative	0.6
211	11/12/20	Building D (Rooms 13 through 16)	Exterior	Breezeway ceiling	Stucco	Upper	Intact	Negative	0.5
212	**11/12/20**	**Building D (Rooms 13 through 16)**	**Exterior at Breezeway**	**Ceiling beam**	**Wood**	**Upper**	**Intact**	**Positive**	**1.3**
213	**11/12/20**	**Building D (Rooms 13 through 16)**	**Exterior at Breezeway**	**Ceiling beam bracket**	**Metal**	**B**	**Intact**	**Positive**	**1.5**
214	**11/12/20**	**Building D (Rooms 13 through 16)**	**Exterior**	**Door frame**	**Wood**	**A**	**Intact**	**Positive**	**3.1**
215	11/12/20	Building D (Rooms 13 through 16)	Exterior	Door	Wood	A	Intact	Negative	0
216	11/12/20	Building D (Rooms 13 through 16)	Exterior	Transom	Glass	A	Intact	Negative	0.2
217	**11/12/20**	**Building D (Rooms 13 through 16)**	**Exterior**	**Transom frame**	**Wood**	**A**	**Intact**	**Positive**	**0.9**
218	**11/12/20**	**Building D (Rooms 13 through 16)**	**Exterior**	**Wall trim**	**Wood**	**A**	**Intact**	**Positive**	**2.1**
219	**11/12/20**	**Building D (Rooms 13 through 16)**	**Exterior**	**Window casing**	**Wood**	**A**	**Intact**	**Positive**	**2.2**
220	11/12/20	Building D (Rooms 13 through 16)	Exterior	Door frame	Metal	A	Intact	Negative	0
221	11/12/20	Building D (Rooms 13 through 16)	Exterior	Door	Metal	A	Intact	Negative	0.1
222	11/12/20	Building D (Rooms 13 through 16)	Exterior	Patio	Concrete	A	Intact	Negative	0.1
223	11/12/20	Building D (Rooms 13 through 16)	Exterior	Planter wall	Concrete	A	Intact	Negative	0.3
224	11/12/20	Building D (Rooms 13 through 16)	Exterior	Planter	Concrete	A	Intact	Negative	0.1
225	11/12/20	Building D (Rooms 13 through 16)	Exterior: Lower Roof	Flashing	Metal	C	Intact	Negative	0.3

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Result	Concentration
226	11/12/20	Building D (Rooms 13 through 16)	Exterior: Lower Roof	Fascia	Wood	C	Intact	Negative	0
227	**11/12/20**	**Building D (Rooms 13 through 16)**	**Exterior: Lower Roof**	**Eave**	**Wood**	**C**	**Intact**	**Positive**	**1.7**
228	**11/12/20**	**Building D (Rooms 13 through 16)**	**Exterior: Lower Roof**	**Eave joist**	**Wood**	**C**	**Intact**	**Positive**	**1.6**
229	**11/12/20**	**Building D (Rooms 13 through 16)**	**Exterior: Lower Roof**	**Eave spacer**	**Wood**	**C**	**Intact**	**Positive**	**1.3**
230	11/12/20	Building D (Rooms 13 through 16)	Exterior: Upper Roof	Flashing	Metal	C	Intact	Negative	0.3
231	11/12/20	Building D (Rooms 13 through 16)	Exterior: Upper Roof	Fascia	Wood	C	Intact	Negative	0.1
232	11/12/20	Building D (Rooms 13 through 16)	Exterior: Upper Roof	Eave	Wood	C	Intact	Negative	0.4
233	**11/12/20**	**Building D (Rooms 13 through 16)**	**Exterior: Upper Roof**	**Eave**	**Wood**	**C**	**Intact**	**Positive**	**1.6**
234	**11/12/20**	**Building D (Rooms 13 through 16)**	**Exterior: Upper Roof**	**Eave joist**	**Wood**	**C**	**Intact**	**Positive**	**1.7**
235	**11/12/20**	**Building D (Rooms 13 through 16)**	**Exterior: Upper Roof**	**Eave spacer**	**Wood**	**C**	**Intact**	**Positive**	**1**
236	11/12/20	Building D (Rooms 13 through 16)	Exterior Above Covered Walkway	Conduit	Metal	C	Intact	Negative	0.2
237	11/12/20	Building D (Rooms 13 through 16)	Exterior: Lower Roof	Pipe	Metal	Roof	Intact	Negative	-0.2
238	11/12/20			Calibrate				Positive	1
239	11/12/20			Calibrate				Positive	1
240	11/12/20			Calibrate				Positive	1
241	11/12/20	Building E (Rooms 17 through 19)	Exterior	Wall	Stucco	A	Intact	Negative	-0.3
242	11/12/20	Building E (Rooms 17 through 19)	Exterior	Wall	Stucco	B	Intact	Negative	-0.3
243	11/12/20	Building E (Rooms 17 through 19)	Exterior	Wall	Stucco	C	Intact	Negative	-0.3

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Result	Concentration
244	11/12/20	Building E (Rooms 17 through 19)	Exterior	Wall	Stucco	D	Intact	Negative	0.5
245	11/12/20	Building E (Rooms 17 through 19)	Exterior	Electrical box	Metal	D	Intact	Negative	0.1
246	**11/12/20**	**Building E (Rooms 17 through 19)**	**Exterior**	**Wall panel**	**Metal**	**D**	**Intact**	**Positive**	**3.5**
247	11/12/20	Building E (Rooms 17 through 19)	Exterior	Fire hose cabinet door	Wood	C	Intact	Negative	0.2
248	**11/12/20**	**Building E (Rooms 17 through 19)**	**Exterior**	**Fire hose cabinet door frame**	**Metal**	**C**	**Intact**	**Positive**	**2.2**
249	11/12/20	Building E (Rooms 17 through 19)	Exterior	Door frame	Metal	C	Intact	Negative	0.2
250	11/12/20	Building E (Rooms 17 through 19)	Exterior	Door	Metal	C	Intact	Negative	-0.1
251	11/12/20	Building E (Rooms 17 through 19)	Exterior	Conduit	Metal	C	Intact	Negative	0.2
252	11/12/20	Building E (Rooms 17 through 19)	Exterior	Bell	Metal	C	Intact	Negative	0.2
253	11/12/20	Building E (Rooms 17 through 19)	Exterior	Door frame	Metal	C	Intact	Negative	0.4
254	11/12/20	Building E (Rooms 17 through 19)	Exterior	Door	Metal	C	Intact	Negative	0.1
255	11/12/20	Building E (Rooms 17 through 19)	Exterior	Door vent	Metal	C	Intact	Negative	0.1
256	11/12/20	Building E (Rooms 17 through 19)	Exterior at Drinking Fountain	Wall tile	Ceramic	C	Intact	Negative	0
257	11/12/20	Building E (Rooms 17 through 19)	Exterior	Drinking fountain	Porcelain	C	Intact	Negative	0.1
258	11/12/20	Building E (Rooms 17 through 19)	Exterior at Drinking Fountain	Hand rail	Metal	C	Intact	Negative	0.2
259	11/12/20	Building E (Rooms 17 through 19)	Exterior	Breezeway ceiling	Stucco	Upper	Intact	Negative	0.5

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Result	Concentration
260	11/12/20	Building E (Rooms 17 through 19)	Exterior at Breezeway Ceiling	Conduit	Metal	Upper	Intact	Negative	0.3
261	**11/12/20**	**Building E (Rooms 17 through 19)**	**Exterior at Breezeway**	**Ceiling beam**	**Wood**	**C**	**Intact**	**Positive**	**1.5**
262	11/12/20	Building E (Rooms 17 through 19)	Exterior at Breezeway	Ceiling beam	Wood	A	Intact	Negative	0.1
263	**11/12/20**	**Building E (Rooms 17 through 19)**	**Exterior at Breezeway**	**Ceiling beam bracket**	**Metal**	**B**	**Intact**	**Positive**	**2**
264	11/12/20	Building E (Rooms 17 through 19)	Exterior	Door frame	Metal	A	Intact	Negative	0.1
265	11/12/20	Building E (Rooms 17 through 19)	Exterior	Door	Metal	A	Intact	Negative	0
266	**11/12/20**	**Building E (Rooms 17 through 19)**	**Exterior**	**Wall trim**	**Wood**	**A**	**Intact**	**Positive**	**7.8**
267	**11/12/20**	**Building E (Rooms 17 through 19)**	**Exterior**	**Window casing**	**Wood**	**A**	**Intact**	**Positive**	**9**
268	**11/12/20**	**Building E (Rooms 17 through 19)**	**Exterior**	**Door frame**	**Wood**	**A**	**Intact**	**Positive**	**8.1**
269	11/12/20	Building E (Rooms 17 through 19)	Exterior	Door	Wood	A	Intact	Negative	0.1
270	11/12/20	Building E (Rooms 17 through 19)	Exterior	Transom	Wood	A	Intact	Negative	0
271	11/12/20	Building E (Rooms 17 through 19)	Exterior	Transom	Glass	A	Intact	Negative	0.2
272	**11/12/20**	**Building E (Rooms 17 through 19)**	**Exterior**	**Transom frame**	**Wood**	**A**	**Intact**	**Positive**	**1.2**
273	11/12/20	Building E (Rooms 17 through 19)	Exterior	Conduit	Metal	A	Intact	Negative	0.1
274	11/12/20	Building E (Rooms 17 through 19)	Exterior	Patio	Concrete	A	Intact	Negative	0.4
275	11/12/20	Building E (Rooms 17 through 19)	Exterior at Door Swing	Floor stripe	Concrete	C	Intact	Negative	0.3

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Result	Concentration
276	11/12/20	Building E (Rooms 17 through 19)	Exterior	Flashing	Metal	C	Intact	Negative	0.2
277	11/12/20	Building E (Rooms 17 through 19)	Exterior	Fascia	Wood	C	Intact	Negative	-0.2
278	**11/12/20**	**Building E (Rooms 17 through 19)**	**Exterior**	**Eave**	**Wood**	**C**	**Intact**	**Positive**	**3.9**
279	**11/12/20**	**Building E (Rooms 17 through 19)**	**Exterior**	**Eave joist**	**Wood**	**C**	**Intact**	**Positive**	**4.6**
280	**11/12/20**	**Building E (Rooms 17 through 19)**	**Exterior**	**Eave spacer**	**Wood**	**C**	**Intact**	**Positive**	**4.5**
281	**11/12/20**	**Building E (Rooms 17 through 19)**	**Exterior Above Covered Walkway**	**Wall vent**	**Metal**	**C**	**Intact**	**Positive**	**6.7**
282	11/12/20	Building E (Rooms 17 through 19)	Exterior Above Covered Walkway	Speaker box	Metal	C	Intact	Negative	-0.1
283	11/12/20	Building F (Rooms 20 through 23)	Exterior	Wall	Stucco	A	Intact	Negative	0.4
284	11/12/20	Building F (Rooms 20 through 23)	Exterior	Wall	Stucco	B	Intact	Negative	0.4
285	11/12/20	Building F (Rooms 20 through 23)	Exterior	Wall	Stucco	C	Intact	Negative	-0.3
286	11/12/20	Building F (Rooms 20 through 23)	Exterior	Wall	Stucco	D	Intact	Negative	0.5
287	11/12/20	Building F (Rooms 20 through 23)	Exterior	Door frame	Metal	C	Intact	Negative	0.2
288	11/12/20	Building F (Rooms 20 through 23)	Exterior	Door	Metal	C	Intact	Negative	0.1
289	11/12/20	Building F (Rooms 20 through 23)	Exterior at Door Swing	Floor stripe	Concrete	C	Intact	Negative	0.3
290	11/12/20	Building F (Rooms 20 through 23)	Exterior	Hand rail	Metal	C	Intact	Negative	0
291	11/12/20	Building F (Rooms 20 through 23)	Exterior	Electrical box	Metal	C	Intact	Negative	0

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Result	Concentration
292	11/12/20	Building F (Rooms 20 through 23)	Exterior	Conduit	Metal	C	Intact	Negative	0.3
293	11/12/20	Building F (Rooms 20 through 23)	Exterior	Bell	Metal	C	Intact	Negative	0.1
294	**11/12/20**	**Building F (Rooms 20 through 23)**	**Exterior**	**Fire hose cabinet door**	**Wood**	**C**	**Intact**	**Positive**	**6.1**
295	**11/12/20**	**Building F (Rooms 20 through 23)**	**Exterior**	**Fire hose cabinet door frame**	**Metal**	**C**	**Intact**	**Positive**	**2.9**
296	11/12/20	Building F (Rooms 20 through 23)	Exterior	Breezeway ceiling	Stucco	Upper	Intact	Negative	-0.2
297	11/12/20	Building F (Rooms 20 through 23)	Exterior at Breezeway Ceiling	Conduit	Metal	Upper	Intact	Negative	0
298	**11/12/20**	**Building F (Rooms 20 through 23)**	**Exterior at Breezeway**	**Ceiling beam**	**Wood**	**C**	**Intact**	**Positive**	**4.4**
299	**11/12/20**	**Building F (Rooms 20 through 23)**	**Exterior at Breezeway**	**Ceiling beam bracket**	**Metal**	**B**	**Intact**	**Positive**	**12.9**
300	11/12/20	Building F (Rooms 20 through 23)	Exterior at Breezeway	Ceiling beam	Wood	A	Intact	Negative	0.3
301	11/12/20	Building F (Rooms 20 through 23)	Exterior	Door frame	Metal	A	Intact	Negative	0.1
302	11/12/20	Building F (Rooms 20 through 23)	Exterior	Door	Metal	A	Intact	Negative	0
303	**11/12/20**	**Building F (Rooms 20 through 23)**	**Exterior**	**Wall trim**	**Wood**	**A**	**Intact**	**Positive**	**6.7**
304	**11/12/20**	**Building F (Rooms 20 through 23)**	**Exterior**	**Window casing**	**Wood**	**A**	**Intact**	**Positive**	**7.4**
305	**11/12/20**	**Building F (Rooms 20 through 23)**	**Exterior**	**Door frame**	**Wood**	**A**	**Intact**	**Positive**	**14.8**
306	11/12/20	Building F (Rooms 20 through 23)	Exterior	Door	Wood	A	Intact	Negative	0
307	11/12/20	Building F (Rooms 20 through 23)	Exterior	Transom	Glass	A	Intact	Negative	0.2

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Result	Concentration
308	**11/12/20**	**Building F (Rooms 20 through 23)**	**Exterior**	**Transom frame**	**Wood**	**A**	**Intact**	**Positive**	**1.6**
309	11/12/20	Building F (Rooms 20 through 23)	Exterior	Planter wall	Concrete	A	Intact	Negative	0.4
310	11/12/20	Building F (Rooms 20 through 23)	Exterior: Lower Roof	Flashing	Metal	C	Intact	Negative	0.2
311	11/12/20	Building F (Rooms 20 through 23)	Exterior: Lower Roof	Fascia	Wood	C	Intact	Negative	-0.1
312	**11/12/20**	**Building F (Rooms 20 through 23)**	**Exterior: Lower Roof**	**Eave**	**Wood**	**C**	**Intact**	**Positive**	**5**
313	**11/12/20**	**Building F (Rooms 20 through 23)**	**Exterior: Lower Roof**	**Eave joist**	**Wood**	**C**	**Intact**	**Positive**	**3.4**
314	**11/12/20**	**Building F (Rooms 20 through 23)**	**Exterior: Lower Roof**	**Eave spacer**	**Wood**	**C**	**Intact**	**Positive**	**5.2**
315	11/12/20	Building F (Rooms 20 through 23)	Exterior: Upper Roof	Flashing	Metal	C	Intact	Negative	0.2
316	11/12/20	Building F (Rooms 20 through 23)	Exterior: Upper Roof	Fascia	Wood	C	Intact	Negative	0.1
317	**11/12/20**	**Building F (Rooms 20 through 23)**	**Exterior: Upper Roof**	**Eave**	**Wood**	**C**	**Intact**	**Positive**	**3.6**
318	**11/12/20**	**Building F (Rooms 20 through 23)**	**Exterior: Upper Roof**	**Eave joist**	**Wood**	**C**	**Intact**	**Positive**	**5**
319	**11/12/20**	**Building F (Rooms 20 through 23)**	**Exterior: Upper Roof**	**Eave spacer**	**Wood**	**C**	**Intact**	**Positive**	**4.3**
320	11/12/20	Building F (Rooms 20 through 23)	Exterior: Upper Roof	Speaker box	Metal	C	Intact	Negative	0
321	11/12/20	Building F (Rooms 20 through 23)	Exterior: Upper Roof	Conduit	Metal	C	Intact	Null	0.3
322	11/12/20			Calibrate				Positive	1.1
323	11/12/20			Calibrate				Positive	1
324	11/12/20			Calibrate				Positive	1
325	11/12/20	Building F (Rooms 20 through 23)	Exterior	Conduit	Metal	C	Intact	Negative	0.3

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Result	Concentration
326	11/12/20	Building F (Rooms 20 through 23)	Exterior	Conduit bracket	Metal	C	Intact	Negative	0.3
327	11/12/20	Building F (Rooms 20 through 23)	Exterior	Pipe	Metal	A	Intact	Negative	0.1
328	11/12/20			Calibrate				Positive	1
329	11/12/20			Calibrate				Positive	1.1
330	11/12/20			Calibrate				Positive	1
331	11/13/20			Calibrate				Positive	0.9
332	11/13/20			Calibrate				Positive	1
333	11/13/20			Calibrate				Positive	1
334	11/13/20	Building H (Rooms 5 through 9)	Exterior	Wall	Stucco	A	Intact	Negative	0.6
335	11/13/20	Building H (Rooms 5 through 9)	Exterior	Wall	Cinderblock	A	Intact	Negative	0.1
336	11/13/20	Building H (Rooms 5 through 9)	Exterior	Wall	Stucco	B	Intact	Negative	0.5
337	11/13/20	Building H (Rooms 5 through 9)	Exterior	Wall	Stucco	C	Intact	Negative	0.5
338	11/13/20	Building H (Rooms 5 through 9)	Exterior	Wall	Cinderblock	C	Intact	Negative	0
339	11/13/20	Building H (Rooms 5 through 9)	Exterior	Wall	Stucco	D	Intact	Negative	0.6
340	11/13/20	Building H (Rooms 5 through 9)	Exterior	Door frame	Metal	A	Intact	Negative	0.2
341	11/13/20	Building H (Rooms 5 through 9)	Exterior	Door	Metal	A	Intact	Negative	0.1
342	11/13/20	Building H (Rooms 5 through 9)	Exterior	Door frame	Wood	A	Intact	Negative	0.1
343	11/13/20	Building H (Rooms 5 through 9)	Exterior	Door	Wood	A	Intact	Negative	0.4
344	11/13/20	Building H (Rooms 5 through 9)	Exterior	Window sill	Wood	A	Intact	Negative	0.4

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Result	Concentration
345	11/13/20	Building H (Rooms 5 through 9)	Exterior	Window casing	Wood	A	Intact	Negative	0.3
346	11/13/20	Building H (Rooms 5 through 9)	Exterior	Window frame	Metal	A	Intact	Negative	0.2
347	11/13/20	Building H (Rooms 5 through 9)	Exterior	Window trim	Metal	A	Intact	Negative	0.3
348	11/13/20	Building H (Rooms 5 through 9)	Exterior	Wall trim	Metal	A	Intact	Negative	0.5
349	11/13/20	Building H (Rooms 5 through 9)	Exterior	Window panel	Wood	A	Intact	Negative	0.1
350	11/13/20	Building H (Rooms 5 through 9)	Exterior	Fire extinguisher box	Metal	B	Intact	Negative	0.1
351	11/13/20	Building H (Rooms 5 through 9)	Exterior	Door frame	Wood	C	Intact	Negative	0.1
352	11/13/20	Building H (Rooms 5 through 9)	Exterior	Door	Wood	C	Intact	Negative	0.2
353	11/13/20	Building H (Rooms 5 through 9)	Exterior	Window sill	Wood	C	Intact	Negative	0.2
354	11/13/20	Building H (Rooms 5 through 9)	Exterior	Window casing	Wood	C	Intact	Negative	0.3
355	11/13/20	Building H (Rooms 5 through 9)	Exterior	Window panel	Wood	C	Intact	Negative	0.1
356	11/13/20	Building H (Rooms 5 through 9)	Exterior	Window frame	Metal	C	Intact	Negative	0.1
357	11/13/20	Building H (Rooms 5 through 9)	Exterior	Window trim	Metal	C	Intact	Negative	0.2
358	11/13/20	Building H (Rooms 5 through 9)	Exterior	Wall trim	Metal	C	Intact	Negative	0.5
359	11/13/20	Building H (Rooms 5 through 9)	Exterior	Door frame	Metal	C	Intact	Negative	0.1
360	11/13/20	Building H (Rooms 5 through 9)	Exterior	Door	Metal	C	Intact	Negative	0.2

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Result	Concentration
361	11/13/20	Building H (Rooms 5 through 9)	Exterior	Door vent	Metal	C	Intact	Negative	0.1
362	11/13/20	Building H (Rooms 5 through 9)	Exterior	Conduit	Metal	C	Intact	Negative	0.1
363	11/13/20	Building H (Rooms 5 through 9)	Exterior	Wall vent	Metal	C	Intact	Negative	0.3
364	11/13/20	Building H (Rooms 5 through 9)	Exterior	Conduit	Metal	C	Intact	Negative	0.3
365	11/13/20	Building H (Rooms 5 through 9)	Exterior	Conduit bracket	Metal	C	Intact	Negative	0.1
366	11/13/20	Building H (Rooms 5 through 9)	Exterior	Bell	Metal	C	Intact	Negative	0.4
367	11/13/20	Building H (Rooms 5 through 9)	Exterior	Double door frame	Metal	C	Intact	Negative	0.4
368	11/13/20	Building H (Rooms 5 through 9)	Exterior	Double door	Metal	C	Intact	Negative	0.3
369	11/13/20	Building H (Rooms 5 through 9)	Exterior at Door Swing	Floor stripe	Concrete	C	Intact	Negative	0.3
370	11/13/20	Building H (Rooms 5 through 9)	Exterior	Drinking fountain	Porcelain	D	Intact	Negative	0.2
371	11/13/20	Building H (Rooms 5 through 9)	Exterior	Conduit	Metal	D	Intact	Negative	0.1
372	11/13/20	Building H (Rooms 5 through 9)	Exterior	Conduit bracket	Metal	D	Intact	Negative	0.3
373	11/13/20	Building H (Rooms 5 through 9)	Exterior	Electrical box	Metal	D	Intact	Negative	0.1
374	11/13/20	Building H (Rooms 5 through 9)	Exterior	Overhang ceiling	Stucco	C	Intact	Negative	0.5
375	11/13/20	Building H (Rooms 5 through 9)	Exterior	Overhang vent	Metal	C	Intact	Negative	0.1
376	11/13/20	Building H (Rooms 5 through 9)	Exterior	Overhang light fixture	Metal	C	Intact	Negative	0.5

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Result	Concentration
377	**11/13/20**	**Building H (Rooms 5 through 9)**	**Exterior**	**Overhang beam**	**Metal**	**C**	**Intact**	**Positive**	**2.5**
378	11/13/20	Building H (Rooms 5 through 9)	Exterior	Fascia	Wood	C	Intact	Negative	0.2
379	11/13/20	Building H (Rooms 5 through 9)	Exterior	Flashing	Metal	C	Intact	Negative	0.2
380	11/13/20	Building B (Room 4)	Exterior	Window panel	Wood	B	Intact	Negative	0
381	11/13/20	Restroom Building 1	Exterior	Wall	Stucco	A	Intact	Negative	0.4
382	11/13/20	Restroom Building 1	Exterior	Wall	Stucco	B	Intact	Negative	0.3
383	11/13/20	Restroom Building 1	Exterior	Conduit	Metal	B	Intact	Negative	0.2
384	11/13/20	Restroom Building 1	Exterior	Conduit bracket	Metal	B	Intact	Negative	-0.2
385	11/13/20	Restroom Building 1	Exterior	Wall	Stucco	C	Intact	Negative	0.3
386	11/13/20	Restroom Building 1	Exterior	Wall	Stucco	D	Intact	Negative	-0.2
387	**11/13/20**	**Restroom Building 1**	**Exterior**	**Ceiling beam bracket**	**Metal**	**D**	**Intact**	**Positive**	**8.6**
388	11/13/20	Restroom Building 1	Exterior	Door frame	Metal	C	Intact	Negative	0.1
389	11/13/20	Restroom Building 1	Exterior	Door	Metal	C	Intact	Negative	0.1
390	11/13/20	Restroom Building 1	Exterior	Door vent	Metal	C	Intact	Negative	0.1
391	11/13/20	Restroom Building 1	Exterior	Hand rail	Metal	C	Intact	Negative	0.1
392	11/13/20	Restroom Building 1	Exterior at Door Swing	Floor stripe	Concrete	C	Intact	Negative	0.2
393	11/13/20	Restroom Building 1	Exterior	Flashing	Metal	A	Intact	Negative	0.3
394	11/13/20	Restroom Building 1	Exterior	Fascia	Wood	A	Intact	Negative	0.1
395	**11/13/20**	**Restroom Building 1**	**Exterior**	**Eave**	**Wood**	**A**	**Intact**	**Positive**	**1.4**
396	**11/13/20**	**Restroom Building 1**	**Exterior**	**Eave joist**	**Wood**	**A**	**Intact**	**Positive**	**2.8**
397	**11/13/20**	**Restroom Building 1**	**Exterior**	**Eave spacer**	**Wood**	**A**	**Intact**	**Positive**	**2.7**
398	11/13/20	Restroom Building 1	Exterior	Conduit	Metal	C	Intact	Negative	-0.2
399	11/13/20	Restroom Building 1	Exterior	Conduit bracket	Metal	C	Intact	Negative	-0.5
400	11/13/20	Restroom Building 1	Exterior	Gutter	Metal	C	Intact	Negative	-0.1
401	11/13/20	Restroom Building 1	Exterior	Downspout	Metal	C	Intact	Negative	-0.1
402	11/13/20	Restroom Building 2	Exterior	Flashing	Metal	A	Intact	Negative	0.3

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Result	Concentration
403	11/13/20	Restroom Building 2	Exterior	Fascia	Wood	A	Intact	Negative	0.1
404	**11/13/20**	**Restroom Building 2**	**Exterior**	**Eave**	**Wood**	**A**	**Intact**	**Positive**	**3.2**
405	**11/13/20**	**Restroom Building 2**	**Exterior**	**Eave joist**	**Wood**	**A**	**Intact**	**Positive**	**3.1**
406	**11/13/20**	**Restroom Building 2**	**Exterior**	**Eave spacer**	**Wood**	**A**	**Intact**	**Positive**	**4.4**
407	11/13/20	Restroom Building 2	Exterior	Attic access frame	Wood	A	Intact	Negative	0.1
408	**11/13/20**	**Restroom Building 2**	**Exterior**	**Attic access frame**	**Metal**	**A**	**Intact**	**Positive**	**2.7**
409	11/13/20	Restroom Building 2	Exterior	Attic access screen	Metal	A	Intact	Negative	0
410	11/13/20	Restroom Building 2	Exterior	Conduit	Metal	C	Intact	Negative	0.1
411	11/13/20	Restroom Building 2	Exterior	Conduit bracket	Metal	C	Intact	Negative	0.2
412	11/13/20			Calibrate				Positive	1
413	11/13/20			Calibrate				Positive	1
414	11/13/20			Calibrate				Positive	1
415	11/13/20	Restroom Building 2	Exterior	Wall	Stucco	A	Intact	Negative	0.4
416	11/13/20	Restroom Building 2	Exterior	Wall	Stucco	B	Intact	Negative	0.4
417	11/13/20	Restroom Building 2	Exterior	Conduit	Metal	B	Intact	Negative	0
418	11/13/20	Restroom Building 2	Exterior	Conduit bracket	Metal	B	Intact	Negative	0.1
419	11/13/20	Restroom Building 2	Exterior	Wall	Stucco	C	Intact	Negative	0.6
420	11/13/20	Restroom Building 2	Exterior	Wall	Stucco	D	Intact	Negative	0.4
421	**11/13/20**	**Restroom Building 2**	**Exterior**	**Ceiling beam bracket**	**Metal**	**D**	**Intact**	**Positive**	**1.9**
422	11/13/20	Restroom Building 2	Exterior at Drinking Fountain	Wall tile	Ceramic	C	Intact	Negative	-0.3
423	11/13/20	Restroom Building 2	Exterior at Drinking Fountain	Hand rail	Metal	C	Intact	Negative	0.1
424	11/13/20	Restroom Building 2	Exterior	Drinking fountain	Porcelain	C	Intact	Negative	0
425	11/13/20	Restroom Building 2	Exterior	Door frame	Metal	C	Intact	Negative	0.2
426	11/13/20	Restroom Building 2	Exterior	Door	Metal	C	Intact	Negative	-0.1

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Result	Concentration
427	11/13/20	Restroom Building 2	Exterior	Door vent	Metal	C	Intact	Negative	0.1
428	11/13/20	Restroom Building 2	Exterior at Door Swing	Floor stripe	Concrete	C	Intact	Negative	0.3
429	**11/13/20**	**Restroom Building 1**	**Exterior**	**Attic access frame**	**Metal**	**A**	**Intact**	**Positive**	**2.1**
430	11/13/20	Restroom Building 1	Exterior	Attic access	Wood	A	Intact	Negative	0.1
431	11/13/20			Calibrate				Positive	1
432	11/13/20			Calibrate				Positive	1
433	11/13/20			Calibrate				Positive	1
434	11/16/20			Calibrate				Positive	0.9
435	11/16/20			Calibrate				Positive	1
436	11/16/20			Calibrate				Positive	1
437	11/16/20	Building J (Portable 24)	Exterior	Wall	Wood	A	Intact	Negative	0
438	11/16/20	Building J (Portable 24)	Exterior	Wall	Wood	B	Intact	Negative	0
439	11/16/20	Building J (Portable 24)	Exterior	Wall	Wood	C	Intact	Negative	0
440	11/16/20	Building J (Portable 24)	Exterior	Wall	Wood	D	Intact	Negative	0
441	11/16/20	Building J (Portable 24)	Exterior	Door frame trim	Wood	D	Intact	Negative	-0.1
442	11/16/20	Building J (Portable 24)	Exterior	Door frame	Metal	D	Intact	Negative	0
443	11/16/20	Building J (Portable 24)	Exterior	Door	Metal	D	Intact	Negative	0
444	11/16/20	Building J (Portable 24)	Exterior	Riser	Metal	A	Intact	Negative	0
445	11/16/20	Building J (Portable 24)	Exterior	Wall base	Metal	A	Intact	Negative	0.3
446	11/16/20	Building J (Portable 24)	Exterior	Conduit	Metal	B	Intact	Negative	0.3
447	11/16/20	Building J (Portable 24)	Exterior	Electrical box	Metal	B	Intact	Negative	0.2
448	11/16/20	Building J (Portable 24)	Exterior	Conduit bracket	Metal	A	Intact	Negative	0.1
449	11/16/20	Building J (Portable 24)	Exterior	Wall header	Metal	A	Intact	Negative	0
450	11/16/20	Building J (Portable 24)	Exterior	Flashing	Metal	A	Intact	Negative	0.1
451	11/16/20	Building J (Portable 24)	Exterior	Overhang	Wood	D	Intact	Negative	0.1
452	11/16/20	Building J (Portable 24)	Exterior	Overhang frame	Metal	D	Intact	Negative	0
453	11/16/20	Building J (Portable 24)	Exterior	Gutter	Metal	D	Intact	Negative	0.1
454	11/16/20	Building J (Portable 24)	Exterior	Downspout	Metal	D	Intact	Negative	0
455	11/16/20	Building J (Portable 24)	Exterior	Drain	Metal	D	Intact	Negative	0.1

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Result	Concentration
456	11/16/20	Building K (Portable 25)	Exterior	Wall	Wood	A	Intact	Negative	0
457	11/16/20	Building K (Portable 25)	Exterior	Wall	Wood	B	Intact	Negative	-0.1
458	11/16/20	Building K (Portable 25)	Exterior	Wall	Wood	C	Intact	Negative	0.1
459	11/16/20	Building K (Portable 25)	Exterior	Wall	Wood	D	Intact	Negative	0
460	11/16/20	Building K (Portable 25)	Exterior	Hand rail	Metal	D	Intact	Negative	0.1
461	11/16/20	Building K (Portable 25)	Exterior	Conduit	Metal	D	Intact	Negative	0.1
462	11/16/20	Building K (Portable 25)	Exterior	Electrical box	Metal	D	Intact	Negative	-0.1
463	11/16/20	Building K (Portable 25)	Exterior	Conduit bracket	Metal	A	Intact	Negative	0
464	11/16/20	Building K (Portable 25)	Exterior	Door frame trim	Wood	B	Intact	Negative	0.1
465	11/16/20	Building K (Portable 25)	Exterior	Door frame	Metal	B	Intact	Negative	0
466	11/16/20	Building K (Portable 25)	Exterior	Door	Metal	B	Intact	Negative	0.1
467	11/16/20	Building K (Portable 25)	Exterior	Riser	Metal	C	Intact	Negative	-0.1
468	11/16/20	Building K (Portable 25)	Exterior	Wall base	Metal	C	Intact	Negative	-0.1
469	11/16/20	Building K (Portable 25)	Exterior	Wall header	Metal	A	Intact	Negative	-0.1
470	11/16/20	Building K (Portable 25)	Exterior	Flashing	Metal	A	Intact	Negative	0.2
471	11/16/20	Building K (Portable 25)	Exterior	Overhang	Wood	B	Intact	Negative	0
472	11/16/20	Building K (Portable 25)	Exterior	Overhang frame	Metal	B	Intact	Negative	0
473	11/16/20	Building K (Portable 25)	Exterior	Gutter	Metal	B	Intact	Negative	0
474	11/16/20	Building K (Portable 25)	Exterior	Downspout	Metal	B	Intact	Negative	0
475	11/16/20	Building K (Portable 25)	Exterior	Drain	Metal	B	Intact	Negative	-0.1
476	11/16/20	Building K (Portable 25)	Exterior at Door Swing	Floor stripe	Concrete	B	Intact	Negative	0.4
477	11/16/20	Building J (Portable 24)	Exterior at Door Swing	Floor stripe	Concrete	D	Intact	Negative	0.2
478	11/16/20	Building L (Portable 26)	Exterior	Wall	Wood	A	Intact	Negative	0.1
479	11/16/20	Building L (Portable 26)	Exterior	Wall	Wood	B	Intact	Negative	0.1
480	11/16/20	Building L (Portable 26)	Exterior	Wall	Wood	D	Intact	Negative	-0.1
481	11/16/20	Building L (Portable 26)	Exterior	Riser	Metal	D	Intact	Negative	-0.1
482	11/16/20	Building L (Portable 26)	Exterior	Wall base	Metal	D	Intact	Negative	0
483	11/16/20	Building L (Portable 26)	Exterior	Conduit	Metal	D	Intact	Negative	-0.1
484	11/16/20	Building L (Portable 26)	Exterior	Conduit bracket	Metal	D	Intact	Negative	0.1

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Result	Concentration
485	11/16/20	Building L (Portable 26)	Exterior	Electrical box	Metal	D	Intact	Negative	-0.1
486	11/16/20	Building L (Portable 26)	Exterior	Vent pipe	Metal	D	Intact	Negative	0
487	11/16/20	Building L (Portable 26)	Exterior	Water line	Metal	D	Intact	Negative	0.1
488	11/16/20	Building L (Portable 26)	Exterior	Screen	Metal	D	Intact	Negative	-0.1
489	11/16/20	Building L (Portable 26)	Exterior	Door frame trim	Wood	B	Intact	Negative	0
490	11/16/20	Building L (Portable 26)	Exterior	Door frame	Metal	B	Intact	Negative	0
491	11/16/20	Building L (Portable 26)	Exterior	Door	Metal	B	Intact	Negative	0.1
492	11/16/20	Building L (Portable 26)	Exterior	Wall trim	Metal	B	Intact	Negative	0.2
493	11/16/20	Building L (Portable 26)	Exterior	Parapet cap	Metal	A	Intact	Negative	0
494	11/16/20	Building L (Portable 26)	Exterior	Wall header	Metal	B	Intact	Negative	0.1
495	11/16/20	Building L (Portable 26)	Exterior	Overhang	Wood	B	Intact	Negative	0.1
496	11/16/20	Building L (Portable 26)	Exterior	Overhang frame	Metal	B	Intact	Negative	0
497	11/16/20	Building L (Portable 26)	Exterior	Flashing	Metal	B	Intact	Negative	0.2
498	11/16/20	Building L (Portable 26)	Exterior	Gutter	Metal	B	Intact	Negative	0
499	11/16/20	Building L (Portable 26)	Exterior	Downspout	Metal	B	Intact	Negative	0
500	11/16/20	Building L (Portable 26)	Exterior at Door Swing	Floor stripe	Concrete	B	Intact	Negative	0.3
501	11/16/20	Building L (Portable 27)	Exterior at Door Swing	Floor stripe	Concrete	B	Intact	Negative	0.3
502	11/16/20	Building L (Portable 27)	Exterior	Wall	Wood	B	Intact	Negative	-0.1
503	11/16/20	Building L (Portable 27)	Exterior	Wall	Wood	D	Intact	Negative	0.1
504	11/16/20	Building L (Portable 27)	Exterior	Riser	Metal	D	Intact	Negative	-0.1
505	11/16/20	Building L (Portable 27)	Exterior	Wall base	Metal	D	Intact	Negative	0
506	11/16/20	Building L (Portable 27)	Exterior	Conduit	Metal	D	Intact	Negative	0.1
507	11/16/20	Building L (Portable 27)	Exterior	Conduit bracket	Metal	D	Intact	Negative	0.1
508	11/16/20	Building L (Portable 27)	Exterior	Electrical box	Metal	D	Intact	Negative	0.1
509	11/16/20	Building L (Portable 27)	Exterior	Vent pipe	Metal	D	Intact	Negative	0.1
510	11/16/20	Building L (Portable 27)	Exterior	Water line	Metal	D	Intact	Negative	0.2
511	11/16/20	Building L (Portable 27)	Exterior	Door frame trim	Wood	B	Intact	Negative	-0.1
512	11/16/20	Building L (Portable 27)	Exterior	Door frame	Metal	B	Intact	Negative	0
513	11/16/20	Building L (Portable 27)	Exterior	Door	Metal	B	Intact	Negative	0.1

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Result	Concentration
514	11/16/20	Building L (Portable 27)	Exterior	Screen	Metal	B	Intact	Negative	0
515	11/16/20	Building L (Portable 27)	Exterior	Wall header	Metal	B	Intact	Negative	0.1
516	11/16/20	Building L (Portable 27)	Exterior	Overhang	Wood	B	Intact	Negative	0
517	11/16/20	Building L (Portable 27)	Exterior	Overhang frame	Metal	B	Intact	Negative	-0.1
518	11/16/20	Building L (Portable 27)	Exterior	Flashing	Metal	B	Intact	Negative	0.1
519	11/16/20	Building L (Portable 27)	Exterior	Gutter	Metal	B	Intact	Negative	0.1
520	11/16/20	Building L (Portable 27)	Exterior	Downspout	Metal	B	Intact	Negative	0.1
521	11/16/20	Building L (Portable 28)	Exterior	Wall	Wood	B	Intact	Negative	-0.1
522	11/16/20	Building L (Portable 28)	Exterior	Wall	Wood	D	Intact	Negative	0.1
523	11/16/20	Building L (Portable 28)	Exterior	Riser	Metal	D	Intact	Negative	0
524	11/16/20	Building L (Portable 28)	Exterior	Wall base	Metal	D	Intact	Negative	-0.1
525	11/16/20	Building L (Portable 28)	Exterior	Conduit	Metal	D	Intact	Negative	0.1
526	11/16/20	Building L (Portable 28)	Exterior	Conduit bracket	Metal	D	Intact	Negative	0.1
527	11/16/20	Building L (Portable 28)	Exterior	Electrical box	Metal	D	Intact	Negative	-0.1
528	11/16/20	Building L (Portable 28)	Exterior	Vent pipe	Metal	D	Intact	Negative	-0.1
529	11/16/20	Building L (Portable 28)	Exterior	Water line	Metal	D	Intact	Negative	0.2
530	11/16/20	Building L (Portable 28)	Exterior	Wall	Wood	C	Intact	Negative	0
531	11/16/20	Building L (Portable 28)	Exterior: Between 28 and 29	Panel	Wood	D	Intact	Negative	0.1
532	11/16/20	Building L (Portable 28)	Exterior	Door frame trim	Wood	B	Intact	Negative	-0.1
533	11/16/20	Building L (Portable 28)	Exterior	Door frame	Metal	B	Intact	Negative	-0.1
534	11/16/20	Building L (Portable 28)	Exterior	Door	Metal	B	Intact	Negative	0.1
535	11/16/20	Building L (Portable 28)	Exterior	Wall header	Metal	B	Intact	Negative	0
536	11/16/20	Building L (Portable 28)	Exterior	Overhang	Wood	B	Intact	Negative	0.1
537	11/16/20	Building L (Portable 28)	Exterior	Overhang frame	Metal	B	Intact	Negative	0
538	11/16/20	Building L (Portable 28)	Exterior	Flashing	Metal	B	Intact	Negative	0.2
539	11/16/20	Building L (Portable 28)	Exterior	Gutter	Metal	B	Intact	Negative	0.1
540	11/16/20	Building L (Portable 28)	Exterior	Downspout	Metal	B	Intact	Negative	0
541	11/16/20	Building L (Portable 28)	Exterior at Door Swing	Floor stripe	Concrete	B	Intact	Negative	0.3

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Result	Concentration
542	11/16/20	Building L (Portable 29)	Exterior at Door Swing	Floor stripe	Concrete	B	Intact	Negative	0.3
543	11/16/20	Building L (Portable 29)	Exterior	Wall	Wood	A	Intact	Negative	0
544	11/16/20	Building L (Portable 29)	Exterior	Wall	Wood	B	Intact	Negative	0
545	11/16/20	Building L (Portable 29)	Exterior	Wall	Wood	D	Intact	Negative	0.1
546	11/16/20	Building L (Portable 29)	Exterior	Riser	Metal	D	Intact	Negative	-0.1
547	11/16/20	Building L (Portable 29)	Exterior	Wall base	Metal	D	Intact	Negative	-0.1
548	11/16/20	Building L (Portable 29)	Exterior	Conduit	Metal	D	Intact	Negative	0.2
549	11/16/20	Building L (Portable 29)	Exterior	Conduit bracket	Metal	D	Intact	Negative	0.1
550	11/16/20	Building L (Portable 29)	Exterior	Screen	Metal	D	Intact	Negative	0.2
551	11/16/20	Building L (Portable 29)	Exterior	Door frame trim	Wood	B	Intact	Negative	0.1
552	11/16/20	Building L (Portable 29)	Exterior	Door frame	Metal	B	Intact	Negative	0
553	11/16/20	Building L (Portable 29)	Exterior	Door	Metal	B	Intact	Negative	0.1
554	11/16/20	Building L (Portable 29)	Exterior	Wall header	Metal	B	Intact	Negative	0.1
555	11/16/20	Building L (Portable 29)	Exterior	Overhang	Wood	B	Intact	Negative	0
556	11/16/20	Building L (Portable 29)	Exterior	Overhang frame	Metal	B	Intact	Negative	0
557	11/16/20	Building L (Portable 29)	Exterior	Flashing	Metal	B	Intact	Negative	-0.1
558	11/16/20	Building L (Portable 29)	Exterior	Gutter	Metal	B	Intact	Negative	0.1
559	11/16/20	Building L (Portable 29)	Exterior	Downspout	Metal	B	Intact	Negative	0
560	11/16/20	Building L (Restroom Portable)	Exterior	Wall	Wood	B	Intact	Negative	0.1
561	11/16/20	Building L (Restroom Portable)	Exterior	Wall	Wood	C	Intact	Negative	0.1
562	11/16/20	Building L (Restroom Portable)	Exterior	Wall	Wood	D	Intact	Negative	0.2
563	11/16/20	Building L (Restroom Portable)	Exterior	Riser	Metal	C	Intact	Negative	-0.1
564	11/16/20	Building L (Restroom Portable)	Exterior	Wall base	Metal	C	Intact	Negative	-0.1
565	11/16/20	Building L (Restroom Portable)	Exterior	Conduit	Metal	C	Intact	Negative	0.3

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Result	Concentration
566	11/16/20	Building L (Restroom Portable)	Exterior	Conduit bracket	Metal	C	Intact	Negative	0
567	11/16/20	Building L (Restroom Portable)	Exterior	Electrical box	Metal	C	Intact	Negative	0
568	11/16/20	Building L (Restroom Portable)	Exterior	Door frame trim	Wood	C	Intact	Negative	0.1
569	11/16/20	Building L (Restroom Portable)	Exterior	Door frame	Metal	C	Intact	Negative	0
570	11/16/20			Calibrate				Positive	1
571	11/16/20			Calibrate				Positive	1
572	11/16/20			Calibrate				Positive	1
573	11/16/20	Building L (Restroom Portable)	Exterior	Door	Metal	C	Intact	Negative	0.1
574	11/16/20	Building L (Restroom Portable)	Exterior	Door vent	Metal	C	Intact	Negative	0.1
575	11/16/20	Building L (Restroom Portable)	Exterior	Waterline	Metal	D	Intact	Negative	0.2
576	11/16/20	Building L (Restroom Portable)	Exterior	Door frame trim	Wood	B	Intact	Negative	-0.1
577	11/16/20	Building L (Restroom Portable)	Exterior	Door frame	Metal	B	Intact	Negative	0.1
578	11/16/20	Building L (Restroom Portable)	Exterior	Door	Metal	B	Intact	Negative	0.1
579	11/16/20	Building L (Restroom Portable)	Exterior	Flashing	Metal	C	Intact	Negative	0.2
580	11/16/20	Building L (Restroom Portable)	Exterior	Wall header	Metal	B	Intact	Negative	0.1
581	11/16/20	Building L (Restroom Portable)	Exterior	Overhang	Wood	B	Intact	Negative	0
582	11/16/20	Building L (Restroom Portable)	Exterior	Overhang frame	Metal	B	Intact	Negative	0
583	11/16/20	Building L (Restroom Portable)	Exterior	Gutter	Metal	B	Intact	Negative	0

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Result	Concentration
584	11/16/20	Building L (Restroom Portable)	Exterior	Downspout	Metal	B	Intact	Negative	0
585	11/16/20	Building Q (Portable 30)	Exterior	Wall	Wood	A	Intact	Negative	0
586	11/16/20	Building Q (Portable 30)	Exterior	Wall	Wood	B	Intact	Negative	0
587	11/16/20	Building Q (Portable 30)	Exterior	Wall	Wood	C	Intact	Negative	0.1
588	11/16/20	Building Q (Portable 30)	Exterior	Wall	Wood	D	Intact	Negative	0
589	11/16/20	Building Q (Portable 30)	Exterior	Riser	Metal	D	Intact	Negative	0
590	11/16/20	Building Q (Portable 30)	Exterior	Conduit	Metal	D	Intact	Negative	0.4
591	11/16/20	Building Q (Portable 30)	Exterior	Conduit bracket	Metal	D	Intact	Negative	-0.1
592	11/16/20	Building Q (Portable 30)	Exterior	Electrical box	Metal	D	Intact	Negative	0.1
593	11/16/20	Building Q (Portable 30)	Exterior	Wall base	Metal	A	Intact	Negative	-0.1
594	11/16/20	Building Q (Portable 30)	Exterior	Door frame trim	Wood	B	Intact	Negative	-0.1
595	11/16/20	Building Q (Portable 30)	Exterior	Door frame	Metal	B	Intact	Negative	0
596	11/16/20	Building Q (Portable 30)	Exterior	Door	Metal	B	Intact	Negative	0.1
597	11/16/20	Building Q (Portable 30)	Exterior	Hand rail	Metal	B	Intact	Negative	0
598	11/16/20	Building Q (Portable 30)	Exterior	Ramp	Wood	B	Intact	Negative	0.1
599	11/16/20	Building Q (Portable 30)	Exterior	Ramp attachment strip	Metal	B	Intact	Negative	0.1
600	11/16/20	Building Q (Portable 30)	Exterior	Ramp wall	Wood	B	Intact	Negative	0
601	11/16/20	Building Q (Portable 30)	Exterior	Stair	Wood	A	Intact	Negative	0.1
602	11/16/20	Building Q (Portable 30)	Exterior	Wall header	Metal	A	Intact	Negative	0.2
603	11/16/20	Building Q (Portable 30)	Exterior	Flashing	Metal	A	Intact	Negative	0.1
604	11/16/20	Building Q (Portable 30)	Exterior	Overhang	Metal	B	Intact	Negative	0.1
605	11/16/20	Building Q (Portable 30)	Exterior	Overhang beam	Metal	B	Intact	Negative	-0.2
606	11/16/20	Building Q (Portable 30)	Exterior	Gutter	Metal	B	Intact	Negative	0.2
607	11/16/20	Building Q	Exterior: Between 30 and 31	Panel	Wood	B	Intact	Negative	0.1
608	11/16/20	Building Q (Portable 31)	Exterior	Wall	Wood	A	Intact	Negative	0.2
609	11/16/20	Building Q (Portable 31)	Exterior	Wall	Wood	B	Intact	Negative	0.1

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Result	Concentration
610	11/16/20	Building Q (Portable 31)	Exterior	Wall	Wood	C	Intact	Negative	0.1
611	11/16/20	Building Q (Portable 31)	Exterior	Wall	Wood	D	Intact	Negative	0
612	11/16/20	Building Q (Portable 31)	Exterior	Riser	Metal	D	Intact	Negative	0.1
613	11/16/20	Building Q (Portable 31)	Exterior	Wall base	Metal	D	Intact	Negative	0
614	11/16/20	Building Q (Portable 31)	Exterior	Conduit	Metal	D	Intact	Negative	0.3
615	11/16/20	Building Q (Portable 31)	Exterior	Conduit bracket	Metal	D	Intact	Negative	-0.1
616	11/16/20	Building Q (Portable 31)	Exterior	Electrical box	Metal	D	Intact	Negative	0.1
617	11/16/20	Building Q (Portable 31)	Exterior	Ribbed conduit	Metal	D	Intact	Negative	0.3
618	11/16/20	Building Q (Portable 31)	Exterior	Door frame trim	Wood	B	Intact	Negative	0.1
619	11/16/20	Building Q (Portable 31)	Exterior	Door frame	Metal	B	Intact	Negative	0.1
620	11/16/20	Building Q (Portable 31)	Exterior	Door	Metal	B	Intact	Negative	0.1
621	11/16/20	Building Q (Portable 31)	Exterior	Hand rail	Metal	B	Intact	Negative	0
622	11/16/20	Building Q (Portable 31)	Exterior	Ramp	Wood	B	Intact	Negative	-0.1
623	11/16/20	Building Q (Portable 31)	Exterior	Ramp attachment strip	Metal	B	Intact	Negative	0
624	11/16/20	Building Q (Portable 31)	Exterior	Ramp wall	Wood	B	Intact	Negative	0.1
625	11/16/20	Building Q (Portable 31)	Exterior	Flashing	Metal	A	Intact	Negative	0.1
626	11/16/20	Building Q (Portable 31)	Exterior	Wall header	Metal	B	Intact	Negative	-0.1
627	11/16/20	Building Q (Portable 31)	Exterior	Overhang	Metal	B	Intact	Negative	0.1
628	11/16/20	Building Q (Portable 31)	Exterior	Overhang beam	Metal	B	Intact	Negative	0.1
629	11/16/20	Building Q (Portable 31)	Exterior	Gutter	Metal	B	Intact	Negative	0
630	11/16/20	Building Q (Portable 31)	Exterior	Downspout	Metal	B	Intact	Negative	0.1
631	11/16/20	Buildnig Q (Portable 30)	Exterior	Downspout	Metal	B	Intact	Negative	0
632	11/16/20	Building Q	Exterior: Between 31 and 32	Panel	Wood	B	Intact	Negative	0
633	11/16/20	Building Q (Portable 32)	Exterior	Wall	Wood	A	Intact	Negative	0.1
634	11/16/20	Building Q (Portable 32)	Exterior	Wall	Wood	B	Intact	Negative	0.1
635	11/16/20	Building Q (Portable 32)	Exterior	Wall	Wood	C	Intact	Negative	0.1

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Result	Concentration
636	11/16/20	Building Q (Portable 32)	Exterior	Wall	Wood	D	Intact	Negative	0.2
637	11/16/20	Building Q (Portable 32)	Exterior	Riser	Metal	D	Intact	Negative	0
638	11/16/20	Building Q (Portable 32)	Exterior	Wall base	Metal	D	Intact	Negative	0
639	11/16/20	Building Q (Portable 32)	Exterior	Conduit	Metal	D	Intact	Negative	0.3
640	11/16/20	Building Q (Portable 32)	Exterior	Conduit bracket	Metal	D	Intact	Negative	0.2
641	11/16/20	Building Q (Portable 32)	Exterior	Electrical box	Metal	D	Intact	Negative	0
642	11/16/20	Building Q (Portable 32)	Exterior	Ribbed conduit	Metal	D	Intact	Negative	0
643	11/16/20	Building Q (Portable 32)	Exterior	Door frame trim	Wood	B	Intact	Negative	-0.1
644	11/16/20	Building Q (Portable 32)	Exterior	Door frame	Metal	B	Intact	Negative	0
645	11/16/20	Building Q (Portable 32)	Exterior	Door	Metal	B	Intact	Negative	0.1
646	11/16/20	Building Q (Portable 32)	Exterior	Hand rail	Metal	B	Intact	Negative	0
647	11/16/20	Building Q (Portable 32)	Exterior	Ramp attachment strip	Metal	B	Intact	Negative	0
648	11/16/20	Building Q (Portable 32)	Exterior	Ramp wall	Wood	B	Intact	Negative	0
649	11/16/20	Building Q (Portable 32)	Exterior	Flashing	Metal	A	Intact	Negative	0.1
650	11/16/20	Building Q (Portable 32)	Exterior	Wall header	Metal	B	Intact	Negative	0.1
651	11/16/20	Building Q (Portable 32)	Exterior	Overhang	Metal	B	Intact	Negative	-0.1
652	11/16/20	Building Q (Portable 32)	Exterior	Overhang beam	Metal	B	Intact	Negative	0.1
653	11/16/20	Building Q (Portable 32)	Exterior	Gutter	Metal	B	Intact	Negative	0
654	11/16/20	Building Q (Portable 32)	Exterior	Downspout	Metal	B	Intact	Negative	0
655	11/16/20			Calibrate				Positive	1.1
656	11/16/20			Calibrate				Positive	1
657	11/16/20			Calibrate				Positive	1
658	11/17/20			Calibrate				Positive	1
659	11/17/20			Calibrate				Positive	1
660	11/17/20			Calibrate				Positive	1
661	11/17/20			Calibrate				Positive	1
662	11/17/20	Building M (Portable 33)	Exterior	Wall	Wood	A	Intact	Negative	0.1

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Result	Concentration
663	11/17/20	Building M (Portable 33)	Exterior	Wall	Wood	B	Intact	Negative	0
664	11/17/20	Building M (Portable 33)	Exterior	Wall	Wood	D	Intact	Negative	0
665	11/17/20	Building M (Portable 33)	Exterior	Riser	Metal	B	Intact	Negative	-0.1
666	11/17/20	Building M (Portable 33)	Exterior	Wall base	Metal	B	Intact	Negative	0.1
667	11/17/20	Building M (Portable 33)	Exterior	Foundation	Concrete	B	Intact	Negative	0
668	11/17/20	Building M (Portable 33)	Exterior	Conduit	Metal	B	Intact	Negative	0.2
669	11/17/20	Building M (Portable 33)	Exterior	Conduit bracket	Metal	B	Intact	Negative	0.1
670	11/17/20	Building M (Portable 33)	Exterior	Electrical box	Metal	B	Intact	Negative	0.1
671	11/17/20	Building M (Portable 33)	Exterior	Door frame trim	Wood	D	Intact	Negative	0.1
672	11/17/20	Building M (Portable 33)	Exterior	Door frame	Metal	D	Intact	Negative	0
673	11/17/20	Building M (Portable 33)	Exterior	Door	Metal	D	Intact	Negative	0.2
674	11/17/20	Building M (Portable 33)	Exterior	Screen	Metal	D	Intact	Negative	-0.3
675	11/17/20	Building M (Portable 33)	Exterior	Window security bars	Metal	D	Intact	Negative	0.1
676	11/17/20	Building M (Portable 33)	Exterior at Door Swing	Floor stripe	Concrete	D	Intact	Negative	0.3
677	11/17/20	Building M (Portable 33)	Exterior	Waterline	Metal	D	Intact	Negative	0.1
678	11/17/20	Building M (Portable 33)	Exterior	Wall header	Metal	A	Intact	Negative	0.2
679	11/17/20	Building M (Portable 33)	Exterior	Flashing	Metal	A	Intact	Negative	-0.2
680	11/17/20	Building M (Portable 33)	Exterior	Overhang	Wood	D	Intact	Negative	0.1
681	11/17/20	Building M (Portable 33)	Exterior	Overhang frame	Metal	D	Intact	Negative	-0.1
682	11/17/20	Building M (Portable 33)	Exterior	Gutter	Metal	D	Intact	Negative	0.2
683	11/17/20	Building M (Portable 33)	Exterior	Downspout	Metal	D	Intact	Negative	0.1
684	11/17/20	Building M (Portable 33)	Exterior	Downspout	PVC	D	Intact	Negative	0
685	11/17/20	Building M (Portable 34)	Exterior	Wall	Wood	D	Intact	Negative	0.1
686	11/17/20	Building M (Portable 34)	Exterior	Wall	Wood	B	Intact	Negative	0.1
687	11/17/20	Building M (Portable 34)	Exterior	Riser	Metal	B	Intact	Negative	0
688	11/17/20	Building M (Portable 34)	Exterior	Wall base	Metal	B	Intact	Negative	0.1
689	11/17/20	Building M (Portable 34)	Exterior	Foundation	Concrete	B	Intact	Negative	0
690	11/17/20	Building M (Portable 34)	Exterior	Screen	Metal	B	Intact	Negative	-0.1
691	11/17/20	Building M (Portable 34)	Exterior	Conduit	Metal	B	Intact	Negative	0.2

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Result	Concentration
692	11/17/20	Building M (Portable 34)	Exterior	Conduit bracket	Metal	B	Intact	Negative	-0.2
693	11/17/20	Building M (Portable 34)	Exterior	Door frame trim	Wood	D	Intact	Negative	-0.1
694	11/17/20	Building M (Portable 34)	Exterior	Door frame	Metal	D	Intact	Negative	0
695	11/17/20	Building M (Portable 34)	Exterior	Door	Metal	D	Intact	Negative	0.1
696	11/17/20	Building M (Portable 34)	Exterior at Door Swing	Floor stripe	Concrete	D	Intact	Negative	0.3
697	11/17/20	Building M (Portable 34)	Exterior	Window security bars	Metal	D	Intact	Negative	0.1
698	11/17/20	Building M (Portable 34)	Exterior	Waterline	Metal	D	Intact	Negative	-0.3
699	11/17/20	Building M (Portable 34)	Exterior	Wall header	Metal	D	Intact	Negative	0.1
700	11/17/20	Building M (Portable 34)	Exterior	Overhang	Wood	D	Intact	Negative	-0.1
701	11/17/20	Building M (Portable 34)	Exterior	Overhang frame	Metal	D	Intact	Negative	0
702	11/17/20	Building M (Portable 34)	Exterior	Flashing	Metal	D	Intact	Negative	0.2
703	11/17/20	Building M (Portable 34)	Exterior	Gutter	Metal	D	Intact	Negative	0.1
704	11/17/20	Building M (Portable 34)	Exterior	Downspout	Metal	D	Intact	Negative	0
705	11/17/20	Building M (Portable 34)	Exterior	Downspout	PVC	D	Intact	Negative	-0.1
706	11/17/20	Building M (Portable 35)	Exterior	Wall	Wood	D	Intact	Negative	0.2
707	11/17/20	Building M (Portable 35)	Exterior	Wall	Wood	B	Intact	Negative	0
708	11/17/20	Building M (Portable 35)	Exterior	Riser	Metal	B	Intact	Negative	-0.1
709	11/17/20	Building M (Portable 35)	Exterior	Wall base	Metal	B	Intact	Negative	-0.1
710	11/17/20	Building M (Portable 35)	Exterior	Foundation	Concrete	B	Intact	Negative	0
711	11/17/20	Building M (Portable 35)	Exterior	Screen	Metal	B	Intact	Negative	0.2
712	11/17/20	Building M (Portable 35)	Exterior	Conduit	Metal	B	Intact	Negative	0.3
713	11/17/20	Building M (Portable 35)	Exterior	Conduit bracket	Metal	B	Intact	Negative	0.1
714	11/17/20	Building M (Portable 35)	Exterior	Door frame trim	Wood	D	Intact	Negative	0
715	11/17/20	Building M (Portable 35)	Exterior	Door frame	Metal	D	Intact	Negative	0
716	11/17/20	Building M (Portable 35)	Exterior	Door	Metal	D	Intact	Negative	0.1
717	11/17/20	Building M (Portable 35)	Exterior at Door Swing	Floor stripe	Concrete	D	Intact	Negative	0.3
718	11/17/20	Building M (Portable 35)	Exterior	Waterline	Metal	D	Intact	Negative	-0.2

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Result	Concentration
719	11/17/20	Building M (Portable 35)	Exterior	Wall header	Metal	D	Intact	Negative	0.1
720	11/17/20	Building M (Portable 35)	Exterior	Overhang	Wood	D	Intact	Negative	-0.1
721	11/17/20	Building M (Portable 35)	Exterior	Overhang frame	Metal	D	Intact	Negative	0
722	11/17/20	Building M (Portable 35)	Exterior	Flashing	Metal	D	Intact	Negative	0
723	11/17/20	Building M (Portable 35)	Exterior	Gutter	Metal	D	Intact	Negative	0.1
724	11/17/20	Building M (Portable 35)	Exterior	Downspout	Metal	D	Intact	Negative	-0.1
725	11/17/20	Building M (Portable 35)	Exterior	Downspout	PVC	D	Intact	Negative	0
726	11/17/20	Building M (Portable 36)	Exterior	Wall	Wood	D	Intact	Negative	0
727	11/17/20	Building M (Portable 36)	Exterior	Wall	Wood	B	Intact	Negative	0.1
728	11/17/20	Building M (Portable 36)	Exterior	Riser	Metal	B	Intact	Negative	-0.1
729	11/17/20	Building M (Portable 36)	Exterior	Wall base	Metal	B	Intact	Negative	-0.1
730	11/17/20	Building M (Portable 36)	Exterior	Foundation	Concrete	B	Intact	Negative	0.1
731	11/17/20	Building M (Portable 36)	Exterior	Screen	Metal	B	Intact	Negative	-0.3
732	11/17/20	Building M (Portable 36)	Exterior	Conduit	Metal	B	Intact	Negative	0.3
733	11/17/20	Building M (Portable 36)	Exterior	Conduit bracket	Metal	B	Intact	Negative	0.1
734	11/17/20	Building M (Portable 36)	Exterior	Door frame trim	Wood	D	Intact	Negative	-0.1
735	11/17/20	Building M (Portable 36)	Exterior	Door frame	Metal	D	Intact	Negative	0
736	11/17/20	Building M (Portable 36)	Exterior	Door	Metal	D	Intact	Negative	0.1
737	11/17/20	Building M (Portable 36)	Exterior at Door Swing	Floor stripe	Concrete	D	Intact	Negative	0.2
738	11/17/20	Building M (Portable 36)	Exterior	Waterline	Metal	D	Intact	Negative	-0.2
739	11/17/20	Building M (Portable 36)	Exterior	Wall header	Metal	D	Intact	Negative	0.1
740	11/17/20	Building M (Portable 36)	Exterior	Overhang	Wood	D	Intact	Negative	0.1
741	11/17/20	Building M (Portable 36)	Exterior	Overhang frame	Metal	D	Intact	Negative	0
742	11/17/20	Building M (Portable 36)	Exterior	Flashing	Metal	D	Intact	Negative	0.1
743	11/17/20	Building M (Portable 36)	Exterior	Gutter	Metal	D	Intact	Negative	0.1
744	11/17/20	Building M (Portable 36)	Exterior	Downspout	Metal	D	Intact	Negative	0
745	11/17/20	Building M (Portable 36)	Exterior	Downspout	PVC	D	Intact	Negative	0
746	11/17/20	Building M (Portable 37)	Exterior	Wall	Wood	B	Intact	Negative	0.1
747	11/17/20	Building M (Portable 37)	Exterior	Wall	Wood	C	Intact	Negative	0.2

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Result	Concentration
748	11/17/20	Building M (Portable 37)	Exterior	Wall	Wood	D	Intact	Negative	0.1
749	11/17/20			Calibrate				Positive	1
750	11/17/20			Calibrate				Positive	1
751	11/17/20			Calibrate				Positive	1.1
752	11/17/20	Building M (Portable 37)	Exterior	Riser	Metal	B	Intact	Negative	-0.1
753	11/17/20	Building M (Portable 37)	Exterior	Wall base	Metal	B	Intact	Negative	-0.1
754	11/17/20	Building M (Portable 37)	Exterior	Foundation	Concrete	B	Intact	Negative	0
755	11/17/20	Building M (Portable 37)	Exterior	Conduit	Metal	B	Intact	Negative	0.2
756	11/17/20	Building M (Portable 37)	Exterior	Conduit bracket	Metal	B	Intact	Negative	0.2
757	11/17/20	Building M (Portable 37)	Exterior	Wall trim	Metal	C	Intact	Negative	0.1
758	11/17/20	Building M (Portable 37)	Exterior	Door frame trim	Wood	D	Intact	Negative	0
759	11/17/20	Building M (Portable 37)	Exterior	Door frame	Metal	D	Intact	Negative	0
760	11/17/20	Building M (Portable 37)	Exterior	Door	Metal	D	Intact	Negative	0.1
761	11/17/20	Building M (Portable 37)	Exterior at Door Swing	Floor stripe	Concrete	D	Intact	Negative	0.3
762	11/17/20	Building M (Portable 37)	Exterior	Watetline	Metal	D	Intact	Negative	0.2
763	11/17/20	Building M (Portable 37)	Exterior	Wall header	Metal	D	Intact	Negative	0.1
764	11/17/20	Building M (Portable 37)	Exterior	Overhang	Wood	D	Intact	Negative	0.1
765	11/17/20	Building M (Portable 37)	Exterior	Overhang frame	Metal	D	Intact	Negative	0
766	11/17/20	Building M (Portable 37)	Exterior	Flashing	Metal	D	Intact	Negative	0
767	11/17/20	Building M (Portable 37)	Exterior	Gutter	Metal	D	Intact	Negative	0
768	11/17/20	Building M (Portable 37)	Exterior	Downspout	Metal	D	Intact	Negative	0.1
769	11/17/20	Building N (Portable 38)	Exterior	Wall	Wood	A	Intact	Negative	0.1
770	11/17/20	Building N (Portable 38)	Exterior	Wall	Wood	B	Intact	Negative	0
771	11/17/20	Building N (Portable 38)	Exterior	Wall	Wood	C	Intact	Negative	-0.1
772	11/17/20	Building N (Portable 38)	Exterior	Wall	Wood	D	Intact	Negative	0.1
773	11/17/20	Building N (Portable 38)	Exterior	Window trim	Wood	D	Intact	Negative	0
774	11/17/20	Building N (Portable 38)	Exterior	Riser	Metal	D	Intact	Negative	-0.1
775	11/17/20	Building N (Portable 38)	Exterior	Wall base	Metal	D	Intact	Negative	0.1
776	11/17/20	Building N (Portable 38)	Exterior	Foundation	Concrete	D	Intact	Negative	0.3
777	11/17/20	Building N (Portable 38)	Exterior	Conduit	Metal	D	Intact	Negative	0.3

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Result	Concentration
778	11/17/20	Building N (Portable 38)	Exterior	Conduit bracket	Metal	D	Intact	Negative	0.1
779	11/17/20	Building N (Portable 38)	Exterior	HVAC unit	Metal	D	Intact	Negative	0
780	11/17/20	Building N (Portable 38)	Exterior	Electrical box	Metal	A	Intact	Negative	0.1
781	11/17/20	Building N (Portable 38)	Exterior	Door frame trim	Wood	B	Intact	Negative	0
782	11/17/20	Building N (Portable 38)	Exterior	Door frame	Metal	B	Intact	Negative	0.1
783	11/17/20	Building N (Portable 38)	Exterior	Door	Metal	B	Intact	Negative	0.1
784	11/17/20	Building N (Portable 38)	Exterior at Door Swing	Floor stripe	Concrete	B	Intact	Negative	0.3
785	11/17/20	Building N (Portable 38)	Exterior	Wall header	Metal	B	Intact	Negative	0
786	11/17/20	Building N (Portable 38)	Exterior	Overhang	Wood	B	Intact	Negative	0
787	11/17/20	Building N (Portable 38)	Exterior	Overhang frame	Metal	B	Intact	Negative	0
788	11/17/20	Building N (Portable 38)	Exterior	Flashing	Metal	C	Intact	Negative	0.3
789	11/17/20	Building N (Portable 38)	Exterior	Gutter	Metal	B	Intact	Negative	0
790	11/17/20	Building N (Portable 38)	Exterior	Downspout	Metal	B	Intact	Negative	0
791	11/17/20	Buildnig N	Exterior: Between 38 and 39	Panel	Wood	B	Intact	Negative	0
792	11/17/20	Building N (Portable 39)	Exterior	Wall	Wood	A	Intact	Negative	0.1
793	11/17/20	Building N (Portable 39)	Exterior	Wall	Wood	B	Intact	Negative	0.1
794	11/17/20	Building N (Portable 39)	Exterior	Wall	Wood	C	Intact	Negative	0
795	11/17/20	Building N (Portable 39)	Exterior	Wall	Wood	D	Intact	Negative	0.1
796	11/17/20	Building N (Portable 39)	Exterior	HVAC unit	Metal	D	Intact	Negative	0.1
797	11/17/20	Building N (Portable 39)	Exterior	Window trim	Wood	B	Intact	Negative	0
798	11/17/20	Building N (Portable 39)	Exterior	Door frame trim	Wood	B	Intact	Negative	0
799	11/17/20	Building N (Portable 39)	Exterior	Door frame	Metal	B	Intact	Negative	0
800	11/17/20	Building N (Portable 39)	Exterior	Door	Metal	B	Intact	Negative	0.2
801	11/17/20	Building N (Portable 39)	Exterior	Conduit	Metal	B	Intact	Negative	0.2
802	11/17/20	Building N (Portable 39)	Exterior	Conduit bracket	Metal	B	Intact	Negative	0.2
803	11/17/20	Building N (Portable 39)	Exterior	Electrical box	Metal	B	Intact	Negative	0.2
804	11/17/20	Building N (Portable 39)	Exterior	Waterline	Metal	B	Intact	Negative	-0.1

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Result	Concentration
805	11/17/20	Building N (Portable 39)	Exterior	Wasteline	Metal	B	Intact	Negative	0.1
806	11/17/20	Building N (Portable 39)	Exterior at Base of Wall	Wall flashing	Metal	B	Intact	Negative	0.3
807	11/17/20	Building N (Portable 39)	Exterior	Overhang	Wood	B	Intact	Negative	0
808	11/17/20	Building N (Portable 39)	Exterior	Fascia	Wood	B	Intact	Negative	0.1
809	11/17/20	Building N (Portable 39)	Exterior	Flashing	Metal	B	Intact	Negative	0.1
810	11/17/20	Building N (Portable 39)	Exterior	Gutter	Metal	A	Intact	Negative	0.1
811	11/17/20	Building N (Portable 39)	Exterior	Downspout	Metal	A	Intact	Negative	0.1
812	11/17/20	Building N	Exterior: Between 39 and 40	Panel	Wood	B	Intact	Negative	0.1
813	11/17/20	Building N (Portable 39)	Exterior	Wall trim	Metal	B	Intact	Negative	0.2
814	11/17/20	Building N (Portable 40)	Exterior		Wood	A	Intact	Negative	0.1
815	11/17/20	Building N (Portable 40)	Exterior	Wall	Wood	B	Intact	Negative	0.1
816	11/17/20	Building N (Portable 40)	Exterior	Wall	Wood	C	Intact	Negative	0.2
817	11/17/20	Building N (Portable 40)	Exterior	Wall	Wood	D	Intact	Negative	0.1
818	11/17/20	Building N (Portable 40)	Exterior	Window trim	Wood	D	Intact	Negative	0.1
819	11/17/20	Building N (Portable 40)	Exterior	Conduit	Metal	D	Intact	Negative	0.1
820	11/17/20	Building N (Portable 40)	Exterior	Conduit bracket	Metal	D	Intact	Negative	0.1
821	11/17/20	Building N (Portable 40)	Exterior	Electrical box	Metal	D	Intact	Negative	0
822	11/17/20	Building N (Portable 40)	Exterior	HVAC unit	Metal	D	Intact	Negative	0.1
823	11/17/20	Building N (Portable 40)	Exterior	Door frame trim	Wood	B	Intact	Negative	0
824	11/17/20	Building N (Portable 40)	Exterior	Door frame	Metal	B	Intact	Negative	0
825	11/17/20	Building N (Portable 40)	Exterior	Door	Metal	B	Intact	Negative	0.1
826	11/17/20	Building N (Portable 40)	Exterior	Wall trim	Metal	B	Intact	Negative	0.3
827	11/17/20	Building N (Portable 40)	Exterior at Base of Wall	Wall flashing	Metal	B	Intact	Negative	0.1
828	11/17/20	Building N (Portable 40)	Exterior at Door Swing	Floor stripe	Concrete	B	Intact	Negative	0.3
829	11/17/20	Building N (Portable 40)	Exterior	Waterline	Metal	B	Intact	Negative	0.1
830	11/17/20	Building N (Portable 40)	Exterior	Wasteline	Metal	B	Intact	Negative	0.1
831	11/17/20	Building N (Portable 40)	Exterior	Overhang	Wood	B	Intact	Negative	0.1
832	11/17/20	Building N (Portable 40)	Exterior	Fascia	Wood	B	Intact	Negative	0.1
833	11/17/20	Building N (Portable 40)	Exterior	Flashing	Metal	B	Intact	Negative	0.1
834	11/17/20	Building N (Portable 40)	Exterior	Gutter	Metal	C	Intact	Negative	0.1

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Result	Concentration
835	11/17/20	Building N (Portable 40)	Exterior	Downspout	Metal	C	Intact	Negative	0.1
836	11/17/20	Building N	Exterior: Between 40 and 41	Panel	Wood	C	Intact	Negative	0.1
837	11/17/20	Building N	Exterior: Between 40 and 41	Conduit	Metal		Intact	Negative	0.1
838	11/17/20	Building N	Exterior: Between 39 and 40	Conduit	Metal		Intact	Negative	0.4
839	11/17/20	Building N	Exterior: Between 38 and 39	Conduit	Metal		Intact	Negative	0.2
840	11/17/20	Building N (Portable 41)	Exterior	Wall	Wood	A	Intact	Negative	0.1
841	11/17/20	Building N (Portable 41)	Exterior	Wall	Wood	B	Intact	Negative	0
842	11/17/20	Building N (Portable 41)	Exterior	Wall	Wood	C	Intact	Negative	0.1
843	11/17/20	Building N (Portable 41)	Exterior	Wall	Wood	D	Intact	Negative	0.1
844	11/17/20	Building N (Portable 41)	Exterior	Conduit	Metal	D	Intact	Negative	0.1
845	11/17/20	Building N (Portable 41)	Exterior	Conduit bracket	Metal	D	Intact	Negative	0
846	11/17/20	Building N (Portable 41)	Exterior	Electrical box	Metal	D	Intact	Negative	0
847	11/17/20	Building N (Portable 41)	Exterior	HVAC Unit	Metal	D	Intact	Negative	0
848	11/17/20	Building N (Portable 41)	Exterior	Door frame trim	Wood	B	Intact	Negative	0
849	11/17/20	Building N (Portable 41)	Exterior	Door frame	Metal	B	Intact	Negative	0.1
850	11/17/20	Building N (Portable 41)	Exterior	Door	Metal	B	Intact	Negative	0.2
851	11/17/20	Building N (Portable 41)	Exterior	Wall trim	Metal	B	Intact	Negative	0.2
852	11/17/20	Building N (Portable 41)	Exterior	Window trim	Wood	B	Intact	Negative	0.1
853	11/17/20	Building N (Portable 41)	Exterior	Waterline	Metal	B	Intact	Negative	-0.1
854	11/17/20	Building N (Portable 41)	Exterior at Base of Wall	Wall flashing	Metal	B	Intact	Negative	0.1
855	11/17/20	Building N (Portable 41)	Exterior at Door Swing	Floor stripe	Concrete	B	Intact	Negative	0.3
856	11/17/20	Building N (Portable 41)	Exterior	Overhang	Wood	B	Intact	Negative	0
857	11/17/20	Building N (Portable 41)	Exterior	Fascia	Wood	B	Intact	Negative	0
858	11/17/20	Building N (Portable 41)	Exterior	Flashing	Metal	B	Intact	Negative	0.2
859	11/17/20	Building N (Portable 41)	Exterior	Gutter	Metal	A	Intact	Negative	0
860	11/17/20	Building N (Portable 41)	Exterior	Downspout	Metal	A	Intact	Negative	0
861	11/17/20			Calibrate				Positive	1

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Result	Concentration
862	11/17/20			Calibrate				Positive	1
863	11/17/20			Calibrate				Positive	1
864	11/18/20			Calibrate				Negative	-0.6
865	11/18/20			Calibrate				Negative	-0.6
866	11/18/20			Calibrate				Positive	0.9
867	11/18/20			Calibrate				Positive	0.9
868	11/18/20			Calibrate				Positive	0.9
869	11/18/20	Building O (Portable 42)	Exterior	Wall	Wood	A	Intact	Negative	0.2
870	11/18/20	Building O (Portable 42)	Exterior	Wall	Wood	B	Intact	Negative	0.1
871	11/18/20	Building O (Portable 42)	Exterior	Wall	Wood	C	Intact	Negative	0.1
872	11/18/20	Building O (Portable 42)	Exterior	Wall	Wood	D	Intact	Negative	0.1
873	11/18/20	Building O (Portable 42)	Exterior	Wall base	Metal	D	Intact	Negative	0
874	11/18/20	Building O (Portable 42)	Exterior	Wall skirt	Wood	D	Poor	Negative	-0.1
875	11/18/20	Building O (Portable 42)	Exterior	Wall corner riser	Wood	C	Intact	Negative	0
876	11/18/20	Building O (Portable 42)	Exterior	Conduit	Metal	D	Intact	Negative	0.1
877	11/18/20	Building O (Portable 42)	Exterior	Conduit bracket	Metal	D	Intact	Negative	0.1
878	11/18/20	Building O (Portable 42)	Exterior	Door frame trim	Wood	A	Intact	Negative	0
879	11/18/20	Building O (Portable 42)	Exterior	Door frame	Metal	A	Intact	Negative	0.3
880	11/18/20	Building O (Portable 42)	Exterior	Door	Metal	A	Intact	Negative	0.1
881	11/18/20	Building O (Portable 42)	Exterior	Hand rail	Metal	A	Intact	Negative	0
882	11/18/20	Building O (Portable 42)	Exterior	Ramp	Metal	A	Intact	Negative	0.1
883	11/18/20	Building O (Portable 42)	Exterior	Ramp siding	Wood	A	Intact	Negative	0
884	11/18/20	Building O (Portable 42)	Exterior	Window trim	Wood	B	Intact	Negative	0.1
885	11/18/20	Building O (Portable 42)	Exterior	Wall trim	Metal	B	Intact	Negative	0.2
886	11/18/20	Building O (Portable 42)	Exterior	Wall vent	Metal	B	Intact	Negative	0.3
887	11/18/20	Building O (Portable 42)	Exterior	Gutter	Metal	B	Intact	Negative	0
888	11/18/20	Building O (Portable 42)	Exterior	Downspout	Metal	B	Intact	Negative	0.1
889	11/18/20	Building O (Portable 42)	Exterior	Waterline	Metal	B	Intact	Negative	0.2
890	11/18/20	Building O (Portable 42)	Exterior	Stair	Metal	C	Intact	Negative	0.1
891	11/18/20	Building O (Portable 42)	Exterior	Stairs siding	Wood	C	Intact	Negative	0.1

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Result	Concentration
892	11/18/20	Building O (Portable 42)	Exterior	Overhang	Wood	C	Intact	Negative	0.1
893	11/18/20	Building O (Portable 42)	Exterior	Overhang beam	Wood	C	Intact	Negative	0
894	11/18/20	Building O (Portable 42)	Exterior	Overhang vent	Metal	C	Intact	Negative	0.1
895	11/18/20	Building O (Portable 42)	Exterior	Fascia	Wood	C	Intact	Negative	0
896	11/18/20	Building O (Portable 42)	Exterior	Flashing	Metal	C	Intact	Negative	0.2
897	11/18/20	Building P (Portable 43)	Exterior	Wall	Wood	A	Intact	Negative	0.1
898	11/18/20	Building P (Portable 43)	Exterior	Wall	Wood	B	Intact	Negative	0
899	11/18/20	Building P (Portable 43)	Exterior	Wall	Wood	C	Intact	Negative	0.1
900	11/18/20	Building P (Portable 43)	Exterior	Wall	Wood	D	Intact	Negative	0.2
901	11/18/20	Building P (Portable 43)	Exterior	Wall base	Metal	D	Intact	Negative	0.1
902	11/18/20	Building P (Portable 43)	Exterior	Wall skirt	Wood	D	Intact	Negative	0.1
903	11/18/20	Building P (Portable 43)	Exterior	Wall trim	Metal	C	Intact	Negative	0.2
904	11/18/20	Building P (Portable 43)	Exterior	Conduit	Metal	C	Intact	Negative	0.2
905	11/18/20	Building P (Portable 43)	Exterior	Conduit bracket	Metal	C	Intact	Negative	0.1
906	11/18/20	Building P (Portable 43)	Exterior	Window trim	Wood	A	Intact	Negative	0.1
907	11/18/20	Building P (Portable 43)	Exterior	Screen	Metal	A	Intact	Negative	0.2
908	11/18/20	Building P (Portable 43)	Exterior	Hand rail	Metal	A	Intact	Negative	0.1
909	11/18/20	Building P (Portable 43)	Exterior	Drinking fountain	Porcelain	A	Intact	Negative	0.2
910	11/18/20	Building P (Portable 43)	Exterior	Door frame trim	Wood	D	Intact	Negative	0.1
911	11/18/20	Building P (Portable 43)	Exterior	Door frame	Metal	D	Intact	Negative	0
912	11/18/20	Building P (Portable 43)	Exterior	Door	Metal	D	Intact	Negative	0.1
913	11/18/20	Building P (Portable 43)	Exterior	Hand rail	Metal	D	Intact	Negative	0
914	11/18/20	Building P (Portable 43)	Exterior	Ramp	Wood	D	Poor	Negative	0.2
915	11/18/20	Building P (Portable 43)	Exterior	Ramp siding	Wood	D	Intact	Negative	0.1
916	11/18/20	Building P (Portable 43)	Exterior	Wall corner riser	Wood	D	Intact	Negative	0.1
917	11/18/20	Building P (Portable 43)	Exterior	Stair	Concrete	B	Intact	Negative	0.3
918	11/18/20	Building P (Portable 43)	Exterior	Waterline	Metal	A	Intact	Negative	0.1

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Result	Concentration
919	11/18/20	Building P (Portable 43)	Exterior	Bench	Wood	A	Intact	Negative	-0.1
920	11/18/20	Building P (Portable 43)	Exterior	Bench	Fiberglass	A	Intact	Negative	0.4
921	11/18/20	Building P (Portable 43)	Exterior	Bench post	Metal	A	Intact	Negative	0.1
922	11/18/20	Building P (Portable 43)	Exterior	Gutter	Metal	A	Intact	Negative	0.1
923	11/18/20	Building P (Portable 43)	Exterior	Downspout	Metal	A	Intact	Negative	0
924	11/18/20	Building P (Portable 43)	Exterior	Overhang	Wood	B	Intact	Negative	0.1
925	11/18/20	Building P (Portable 43)	Exterior	Overhang beam	Wood	B	Intact	Negative	0
926	11/18/20	Building P (Portable 43)	Exterior	Fascia	Wood	B	Intact	Negative	0.1
927	11/18/20	Building P (Portable 43)	Exterior	Flashing	Metal	B	Intact	Negative	0.2
928	11/18/20	Covered Walkway 1	Exterior	Ceiling	Wood	Upper	Intact	Negative	0.6
929	11/18/20	Covered Walkway 1	Exterior	Ceiling beam	Wood	Upper	Intact	Negative	0.6
930	**11/18/20**	**Covered Walkway 1**	**Exterior**	**Ceiling joist**	**Wood**	**Upper**	**Intact**	**Positive**	**1**
931	11/18/20	Covered Walkway 1	Exterior	Joist spacer	Wood	A	Intact	Negative	0.3
932	11/18/20	Covered Walkway 1	Exterior	Fascia	Wood	D	Intact	Negative	0.1
933	11/18/20	Covered Walkway 1	Exterior	Flashing	Metal	D	Intact	Negative	0.2
934	11/18/20	Covered Walkway 1	Exterior	Pole	Metal	A	Intact	Negative	0.1
935	11/18/20	Covered Walkway 2	Exterior	Ceiling	Wood	Upper	Intact	Negative	0
936	**11/18/20**	**Covered Walkway 2**	**Exterior**	**Ceiling beam**	**Wood**	**Upper**	**Intact**	**Positive**	**0.8**
937	**11/18/20**	**Covered Walkway 2**	**Exterior**	**Ceiling joist**	**Wood**	**Upper**	**Intact**	**Positive**	**0.9**
938	11/18/20			Calibrate				Positive	1
939	11/18/20			Calibrate				Positive	1.1
940	11/18/20			Calibrate				Positive	1
941	**11/18/20**	**Covered Walkway 2**	**Exterior**	**Joist spacer**	**Wood**	**A**	**Intact**	**Positive**	**0.7**
942	11/18/20	Covered Walkway 2	Exterior	Fascia	Wood	A	Intact	Negative	0.1
943	11/18/20	Covered Walkway 2	Exterior	Flashing	Metal	A	Intact	Negative	0.2
944	11/18/20	Covered Walkway 2	Exterior	Pole	Metal	A	Intact	Negative	-0.2
945	11/18/20	Covered Walkway 3	Exterior	Ceiling	Wood	Upper	Intact	Negative	0
946	11/18/20	Covered Walkway 3	Exterior	Ceiling beam	Wood	A	Intact	Negative	0.1
947	11/18/20	Covered Walkway 3	Exterior	Ceiling beam spacer	Wood	A	Intact	Negative	0.1
948	11/18/20	Covered Walkway 3	Exterior	Ceiling joist	Wood	Upper	Intact	Negative	0

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Result	Concentration
949	11/18/20	Covered Walkway 3	Exterior	Ceiling beam brace	Metal	D	Intact	Negative	0.1
950	11/18/20	Covered Walkway 3	Exterior	Fascia	Wood	C	Intact	Negative	-0.1
951	11/18/20	Covered Walkway 3	Exterior	Flashing	Metal	C	Intact	Negative	0.2
952	11/18/20	Covered Walkway 3	Exterior	Pole	Metal	C	Intact	Negative	-0.1
953	11/18/20	Covered Walkway 3	Exterior	Conduit	Metal	C	Intact	Negative	0.2
954	11/18/20	Covered Walkway 3	Exterior	Conduit bracket	Metal	Upper	Intact	Negative	0.1
955	**11/18/20**	**Covered Walkway 4**	**Exterior**	**Ceiling**	**Wood**	**Upper**	**Intact**	**Positive**	**3**
956	**11/18/20**	**Covered Walkway 4**	**Exterior**	**Ceiling beam**	**Wood**	**B**	**Intact**	**Positive**	**4.2**
957	**11/18/20**	**Covered Walkway 4**	**Exterior**	**Ceiling joist**	**Wood**	**B**	**Intact**	**Positive**	**6**
958	11/18/20	Covered Walkway 4	Exterior	Joist spacer	Wood	B	Intact	Negative	0.1
959	**11/18/20**	**Covered Walkway 4**	**Exterior**	**Joist spacer**	**Wood**	**B**	**Intact**	**Positive**	**5.7**
960	11/18/20	Covered Walkway 4	Exterior	Conduit	Metal	Upper	Intact	Negative	-0.1
961	11/18/20	Covered Walkway 4	Exterior	Fascia	Wood	C	Intact	Negative	-0.1
962	11/18/20	Covered Walkway 4	Exterior	Flashing	Metal	C	Intact	Negative	0.2
963	11/18/20	Covered Walkway 4	Exterior	Pole	Metal	C	Intact	Negative	0
964	11/18/20	Covered Walkway 4	Exterior	Floor stripe	Concrete	Lower	Intact	Negative	0.3
965	**11/18/20**	**Covered Walkway 5**	**Exterior**	**Ceiling**	**Wood**	**Upper**	**Intact**	**Positive**	**1.1**
966	**11/18/20**	**Covered Walkway 5**	**Exterior**	**Ceiling beam**	**Wood**	**A**	**Intact**	**Positive**	**1.4**
967	**11/18/20**	**Covered Walkway 5**	**Exterior**	**Ceiling joist**	**Wood**	**A**	**Intact**	**Positive**	**1.3**
968	**11/18/20**	**Covered Walkway 5**	**Exterior**	**Joist spacer**	**Wood**	**Upper**	**Intact**	**Positive**	**1.2**
969	11/18/20	Covered Walkway 5	Exterior	Fascia	Wood	A	Intact	Negative	0.1
970	11/18/20	Covered Walkway 5	Exterior	Flashing	Metal	A	Intact	Negative	0.2
971	11/18/20	Covered Walkway 5	Exterior	Gutter	Metal	D	Intact	Negative	0
972	**11/18/20**	**Covered Walkway 5**	**Exterior**	**Pole**	**Metal**	**D**	**Intact**	**Positive**	**1.7**
973	**11/18/20**	**Covered Walkway 6**	**Exterior**	**Ceiling**	**Wood**	**Upper**	**Intact**	**Positive**	**4.2**
974	**11/18/20**	**Covered Walkway 6**	**Exterior**	**Ceiling beam**	**Wood**	**Upper**	**Intact**	**Positive**	**3.1**
975	**11/18/20**	**Covered Walkway 6**	**Exterior**	**Ceiling joist**	**Wood**	**Upper**	**Intact**	**Positive**	**2.8**
976	**11/18/20**	**Covered Walkway 6**	**Exterior**	**Joist spacer**	**Wood**	**Upper**	**Intact**	**Positive**	**2.5**
977	11/18/20	Covered Walkway 6	Exterior	Conduit	Metal	D	Intact	Negative	0.1
978	11/18/20	Covered Walkway 6	Exterior	Fascia	Wood	B	Intact	Negative	0.1
979	11/18/20	Covered Walkway 6	Exterior	Flashing	Metal	B	Intact	Negative	0.2

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Result	Concentration
980	11/18/20	Covered Walkway 6	Exterior	Wall	Stucco	C	Intact	Negative	0.1
981	11/18/20	Covered Walkway 6	Exterior	Pole	Metal	C	Intact	Negative	0
982	11/18/20	Covered Walkway 6	Exterior	Pole	Wood	C	Intact	Negative	0.1
983	11/18/20	Covered Walkway 6	Exterior	Pole	Metal	D	Intact	Negative	0
984	11/18/20	Covered Walkway 6	Exterior	Gutter	Metal	D	Intact	Negative	0
985	11/18/20	Covered Walkway 6	Exterior	Downspout	Metal	D	Intact	Negative	0.1
986	11/18/20	Covered Walkway 6	Exterior	Pole	Metal	B	Intact	Negative	0.1
987	**11/18/20**	**Covered Walkway 6**	**Exterior**	**Pole**	**Wood**	**B**	**Intact**	**Positive**	**2.2**
988	11/18/20	Covered Walkway 6	Exterior	Hand rail	Wood	B	Intact	Negative	-0.1
989	11/18/20	Covered Walkway 6	Exterior	Hand rail	Metal	B	Intact	Negative	0.1
990	11/18/20	Covered Walkway 6	Exterior	Floor stripe	Concrete	Lower	Intact	Negative	0.3
991	11/18/20	Covered Walkway 6	Exterior	Joist brace	Metal	Upper	Intact	Negative	0.2
992	**11/18/20**	**Covered Walkway 7**	**Exterior**	**Ceiling**	**Wood**	**Upper**	**Intact**	**Positive**	**2.7**
993	**11/18/20**	**Covered Walkway 7**	**Exterior**	**Ceiling beam**	**Wood**	**Upper**	**Intact**	**Positive**	**3.5**
994	**11/18/20**	**Covered Walkway 7**	**Exterior**	**Ceiling joist**	**Wood**	**Upper**	**Intact**	**Positive**	**1.6**
995	11/18/20	Covered Walkway 7	Exterior	Flashing	Metal	C	Intact	Negative	0.1
996	11/18/20	Covered Walkway 7	Exterior	Gutter	Metal	C	Intact	Negative	0.1
997	**11/18/20**	**Covered Walkway 7**	**Exterior**	**Fascia**	**Wood**	**D**	**Intact**	**Positive**	**0.8**
998	11/18/20	Covered Walkway 7	Exterior	Downspout	Metal	C	Intact	Negative	-0.1
999	11/18/20	Covered Walkway 7	Exterior	Wall	Stucco	C	Intact	Negative	-0.1
1000	**11/18/20**	**Covered Walkway 7**	**Exterior**	**Drinking fountain**	**Porcelain**	**C**	**Intact**	**Positive**	**3.4**
1001	11/18/20	Covered Walkway 7	Exterior	Wall	Concrete	C	Intact	Negative	0.4
1002	**11/18/20**	**Covered Walkway 7**	**Exterior**	**Pole**	**Wood**	**C**	**Intact**	**Positive**	**0.8**
1003	11/18/20	Covered Walkway 7	Exterior	Hand rail	Metal	C	Intact	Negative	0.1
1004	11/18/20			Calibrate				Positive	1.1
1005	11/18/20			Calibrate				Positive	1.1
1006	11/18/20			Calibrate				Positive	0.9
1007	11/19/20			Calibrate				Positive	1
1008	11/19/20			Calibrate				Positive	1
1009	11/19/20			Calibrate				Positive	1
1010	11/19/20	Covered Walkway 7	Exterior	Floor stripe	Concrete	Lower	Intact	Negative	0.3
1011	11/19/20	Covered Walkway 7	Exterior	Waste pipe	Metal	C	Intact	Negative	0

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Result	Concentration
1012	11/19/20	Covered Walkway 8	Exterior	Ceiling	Wood	Upper	Intact	Negative	-0.1
1013	**11/19/20**	**Covered Walkway 8**	**Exterior**	**Ceiling**	**Wood**	**Upper**	**Intact**	**Positive**	**1.1**
1014	**11/19/20**	**Covered Walkway 8**	**Exterior**	**Ceiling beam**	**Wood**	**Upper**	**Intact**	**Positive**	**0.7**
1015	**11/19/20**	**Covered Walkway 8**	**Exterior**	**Ceiling joist**	**Wood**	**Upper**	**Intact**	**Positive**	**1.6**
1016	11/19/20	Covered Walkway 8	Exterior	Joist spacer	Wood	Upper	Intact	Negative	0
1017	**11/19/20**	**Covered Walkway 8**	**Exterior**	**Joist spacer**	**Wood**	**Upper**	**Intact**	**Positive**	**1.7**
1018	11/19/20	Covered Walkway 8	Exterior	Gutter	Metal	C	Intact	Negative	0.1
1019	11/19/20	Covered Walkway 8	Exterior	Downspout	Metal	C	Intact	Negative	0.1
1020	**11/19/20**	**Covered Walkway 8**	**Exterior**	**Pole**	**Wood**	**C**	**Intact**	**Positive**	**1.4**
1021	11/19/20	Covered Walkway 8	Exterior	Pole	Metal	C	Intact	Negative	-0.1
1022	11/19/20	Covered Walkway 8	Exterior	Fascia	Wood	B	Intact	Negative	-0.1
1023	11/19/20	Covered Walkway 8	Exterior	Flashing	Metal	B	Intact	Negative	0.2
1024	11/19/20	Covered Walkway 8	Exterior	Pole	Metal	C	Intact	Negative	-0.1
1025	11/19/20	Covered Walkway 8	Exterior	Fascia	Wood	C	Intact	Negative	0.1
1026	11/19/20	Covered Walkway 8	Exterior	Floor stripe	Concrete	Lower	Intact	Negative	0.4
1027	11/19/20	Covered Walkway 9	Exterior	Floor stripe	Concrete	Lower	Intact	Negative	0.3
1028	**11/19/20**	**Covered Walkway 9**	**Exterior**	**Ceiling**	**Wood**	**Upper**	**Intact**	**Positive**	**0.9**
1029	**11/19/20**	**Covered Walkway 9**	**Exterior**	**Ceiling beam**	**Wood**	**Upper**	**Intact**	**Positive**	**2.8**
1030	**11/19/20**	**Covered Walkway 9**	**Exterior**	**Ceiling joist**	**Wood**	**Upper**	**Intact**	**Positive**	**0.7**
1031	**11/19/20**	**Covered Walkway 9**	**Exterior**	**Joist spacer**	**Wood**	**Upper**	**Intact**	**Positive**	**3.3**
1032	11/19/20	Covered Walkway 9	Exterior	Fascia	Wood	C	Intact	Negative	-0.1
1033	11/19/20	Covered Walkway 9	Exterior	Flashing	Metal	C	Intact	Negative	0.1
1034	11/19/20	Covered Walkway 9	Exterior	Conduit	Metal	D	Intact	Negative	0.3
1035	11/19/20	Covered Walkway 9	Exterior	Electrical box	Metal	D	Intact	Negative	0.1
1036	11/19/20	Covered Walkway 9	Exterior for Electrical Wiring	Pole	Metal	C	Intact	Negative	0.2
1037	**11/19/20**	**Covered Walkway 9**	**Exterior**	**Pole**	**Wood**	**C**	**Intact**	**Positive**	**1.9**
1038	11/19/20	Covered Walkway 9	Exterior	Pole	Metal	C	Intact	Negative	0.1
1039	11/19/20	Covered Walkway 9	Exterior	Pole	Metal	D	Intact	Negative	-0.2
1040	11/19/20	Covered Walkway 9	Exterior	Wall	Stucco	C	Intact	Negative	-0.2
1041	**11/19/20**	**Covered Walkway 10**	**Exterior**	**Ceiling**	**Wood**	**Upper**	**Intact**	**Positive**	**0.8**
1042	11/19/20	Covered Walkway 10	Exterior	Ceiling beam	Wood	Upper	Intact	Negative	-0.1
1043	11/19/20	Covered Walkway 10	Exterior	Ceiling joist	Wood	Upper	Intact	Negative	0.2

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Result	Concentration
1044	11/19/20	Covered Walkway 10	Exterior	Joist spacer	Wood	Upper	Intact	Negative	0.3
1045	11/19/20	Covered Walkway 10	Exterior	Ceiling beam	Wood	Upper	Intact	Negative	0.1
1046	11/19/20	Covered Walkway 10	Exterior	Ceiling joist	Wood	Upper	Intact	Negative	0.3
1047	11/19/20	Covered Walkway 10	Exterior	Fascia	Wood	C	Intact	Negative	0
1048	11/19/20	Covered Walkway 10	Exterior	Flashing	Metal	C	Intact	Negative	0.2
1049	11/19/20	Covered Walkway 10	Exterior	Gutter	Metal	C	Intact	Negative	0.1
1050	11/19/20	Covered Walkway 10	Exterior	Downspout	Metal	C	Intact	Negative	0.1
1051	11/19/20	Covered Walkway 10	Exterior	Hand rail	Metal	C	Intact	Negative	0.1
1052	**11/19/20**	**Covered Walkway 10**	**Exterior**	**Pole**	**Wood**	**C**	**Intact**	**Positive**	**1.9**
1053	11/19/20	Covered Walkway 10	Exterior	Wall	Stucco	C	Intact	Negative	-0.1
1054	11/19/20	Covered Walkway 10	Exterior	Wall	Stucco	B	Intact	Negative	-0.1
1055	11/19/20	Covered Walkway 10	Exterior	Wall	Concrete	C	Intact	Negative	0.2
1056	11/19/20	Covered Walkway 10	Exterior	Floor stripe	Concrete	Lower	Intact	Negative	0.4
1057	**11/19/20**	**Covered Walkway 9**	**Exterior**	**Joist brace**	**Metal**	**A**	**Intact**	**Positive**	**3.4**
1058	**11/19/20**	**Covered Walkway 11**	**Exterior**	**Ceiling**	**Wood**	**Upper**	**Intact**	**Positive**	**1.9**
1059	**11/19/20**	**Covered Walkway 11**	**Exterior**	**Ceiling beam**	**Wood**	**Upper**	**Intact**	**Positive**	**2.8**
1060	**11/19/20**	**Covered Walkway 11**	**Exterior**	**Ceiling joist**	**Wood**	**Upper**	**Intact**	**Positive**	**1.4**
1061	**11/19/20**	**Covered Walkway 11**	**Exterior**	**Joist spacer**	**Wood**	**Upper**	**Intact**	**Positive**	**3.3**
1062	11/19/20	Covered Walkway 11	Exterior	Fascia	Wood	C	Intact	Negative	0
1063	11/19/20	Covered Walkway 11	Exterior	Flashing	Metal	C	Intact	Negative	0.2
1064	11/19/20	Covered Walkway 11	Exterior for Electrical Wiring	Pole	Metal	C	Intact	Negative	0.1
1065	11/19/20	Covered Walkway 11	Exterior	Gutter	Metal	C	Intact	Negative	0.1
1066	11/19/20	Covered Walkway 11	Exterior	Downspout	Metal	C	Intact	Negative	-0.1
1067	**11/19/20**	**Covered Walkway 11**	**Exterior**	**Pole**	**Wood**	**C**	**Intact**	**Positive**	**1.8**
1068	11/19/20	Covered Walkway 11	Exterior	Pole	Metal	C	Intact	Negative	0.2
1069	11/19/20	Covered Walkway 11	Exterior	Pole	Metal	C	Intact	Negative	-0.1
1070	**11/19/20**	**Covered Walkway 11**	**Exterior**	**Joist brace**	**Metal**	**A**	**Intact**	**Positive**	**3.4**
1071	11/19/20	Covered Walkway 11	Exterior	Floor stripe	Concrete	Lower	Intact	Negative	0.3
1072	11/19/20	Covered Walkway 12	Exterior	Ceiling	Wood	Upper	Intact	Negative	-0.1
1073	11/19/20	Covered Walkway 12	Exterior	Ceiling beam	Wood	Upper	Intact	Negative	0.2
1074	11/19/20	Covered Walkway 12	Exterior	Ceiling joist	Wood	Upper	Intact	Negative	0.1
1075	11/19/20	Covered Walkway 12	Exterior	Beam brace	Wood	A	Intact	Negative	0.1

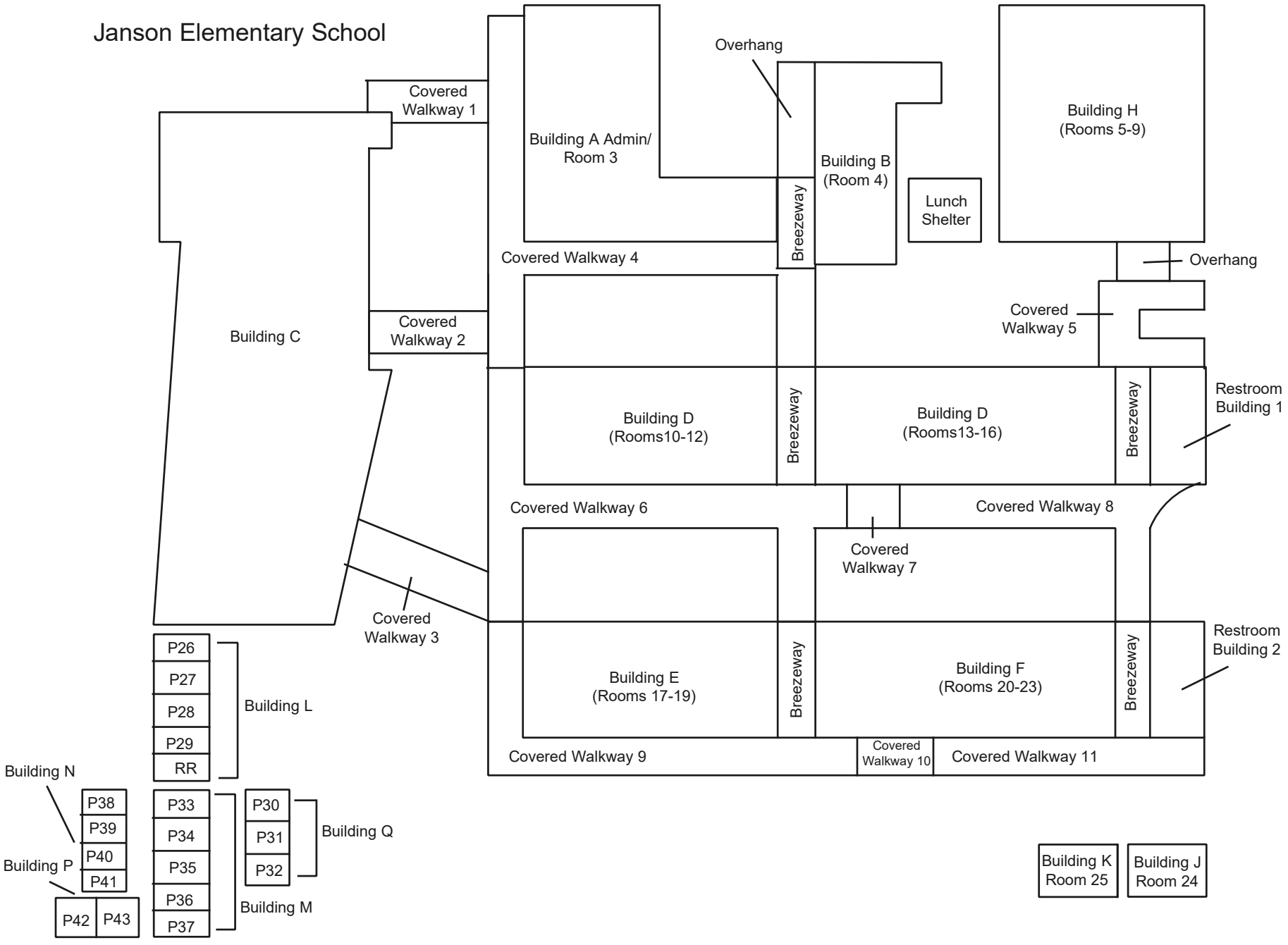
Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Result	Concentration
1076	11/19/20	Covered Walkway 12	Exterior	Fascia	Wood	D	Intact	Negative	0.1
1077	11/19/20	Covered Walkway 12	Exterior	Flashing	Metal	D	Intact	Negative	0.2
1078	11/19/20	Covered Walkway 12	Exterior	Pole	Metal	D	Intact	Negative	0
1079	11/19/20	Campus	Southeast Playground	Swing set	Metal		Intact	Negative	0.1
1080	11/19/20	Campus	Southeast Playground	Structure support pole	Metal		Intact	Negative	0.2
1081	11/19/20	Campus	Southeast Playground	Bars	Metal		Intact	Negative	0.1
1082	11/19/20	Campus	Southeast Playground	Hand rail	Metal		Intact	Negative	0
1083	11/19/20	Campus	East Parking Lot	Floor stripe	Asphalt		Intact	Negative	0.2
1084	11/19/20	Campus	East Parking Lot	Floor stripe	Asphalt		Intact	Negative	0.4
1085	11/19/20	Campus	East Parking Lot	Curb	Concrete		Intact	Negative	0.3
1086	11/19/20	Campus	Planter: North of Building J	Curb	Concrete		Intact	Null	0.3
1087	11/19/20			Calibrate				Positive	1.1
1088	11/19/20			Calibrate				Positive	1
1089	11/19/20			Calibrate				Positive	0.9
1090	11/19/20	Campus	Planter: North of Building J	Curb	Concrete		Intact	Negative	0.3
1091	11/19/20	Campus	South Playground	Basketball pole	Metal		Intact	Negative	0.1
1092	11/19/20	Campus	South Playground at Basketball Court	Floor stripe	Asphalt		Intact	Negative	0.3
1093	11/19/20	Campus	South Playground	Ball wall	Wood		Intact	Negative	0.1
1094	11/19/20	Campus	South Playground at Ball Wall	Floor stripe	Asphalt		Intact	Negative	0.3
1095	11/19/20	Campus	South Playground: Hop Scotch	Floor stripe	Asphalt		Intact	Negative	0.4
1096	11/19/20	Campus	South Playground: Hop Scotch	Floor stripe	Asphalt		Intact	Negative	0.3
1097	11/19/20	Campus	South Playground	Stage wall	Stucco		Intact	Negative	0
1098	11/19/20	Campus	South Playground	Stage wall	Concrete		Intact	Negative	0.3
1099	11/19/20	Campus	South Playground: Play Area	Floor stripe	Asphalt		Intact	Negative	0.3

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Result	Concentration
1100	11/19/20	Campus	South Playground: Hop Scotch	Floor stripe	Asphalt		Intact	Negative	0.3
1101	11/19/20	Campus	Planter: West of Building E	Curb	Concrete		Intact	Negative	0.3
1102	11/19/20	Campus	Pre-School Playground	Structure support pole	Metal		Intact	Negative	0.1
1103	11/19/20	Campus	Pre-School Playground	Bars	Metal		Intact	Negative	0
1104	11/19/20	Campus	Pre-School Playground	Hand rail	Metal		Intact	Negative	0
1105	11/19/20	Campus	Pre-School Playground	Sign pole	Metal		Intact	Negative	0
1106	11/19/20	Campus	Pre-School Playground	Floor stripe	Concrete		Intact	Negative	0.3
1107	11/19/20	Campus	South Parking Lot	Floor stripe	Asphalt		Intact	Negative	0.4
1108	11/19/20	Campus	South Parking Lot	Floor stripe	Asphalt		Intact	Negative	0
1109	11/19/20	Campus	South Parking Lot: Handicap Parking	Floor stripe	Asphalt		Intact	Negative	0.4
1110	11/19/20	Campus	South Parking Lot	Speed bump	Asphalt		Intact	Negative	0.3
1111	11/19/20	Campus	South Parking Lot	Directional arrow	Asphalt		Intact	Negative	0.4
1112	11/19/20	Campus	South Parking Lot	Curb	Concrete		Intact	Negative	0.3
1113	11/19/20	Campus	South Parking Lot	Curb	Concrete		Intact	Negative	0.3
1114	11/19/20	Campus	South Entry	School sign	Texture coat on metal		Intact	Negative	0.1
1115	11/19/20	Campus	South Entry	Bench	Wood		Intact	Negative	0.1
1116	11/19/20	Campus	South Entry	Bench post	Metal		Intact	Negative	0.2
1117	11/19/20	Campus	Storage Shed: North of Building O	Wall	Wood	A	Intact	Negative	0.1
1118	11/19/20	Campus	Storage Shed: North of Building O	Wall	Wood	B	Intact	Negative	0.1
1119	11/19/20	Campus	Storage Shed: North of Building O	Wall	Wood	C	Intact	Negative	0.1
1120	11/19/20	Campus	Storage Shed: North of Building O	Wall	Wood	D	Intact	Negative	0.1
1121	11/19/20	Campus	Storage Shed: North of Building O	Door frame	Wood	B	Intact	Negative	0

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Result	Concentration
1122	11/19/20	Campus	Storage Shed: North of Building O	Door	Wood	B	Intact	Negative	-0.1
1123	11/19/20	Campus	Storage Shed: North of Building O	Wall trim	Wood	B	Intact	Negative	0.2
1124	11/19/20	Campus	Storage Shed: North of Building O	Flashing	Metal	C	Intact	Negative	0.1
1125	11/19/20	Campus	Northwest Parking Lot	Floor stripe	Asphalt		Intact	Negative	0.4
1126	11/19/20	Campus	Northwest Parking Lot: Handicap Parking	Floor stripe	Asphalt		Intact	Negative	0.3
1127	11/19/20	Campus	Northwest Parking Lot	Curb	Concrete		Intact	Negative	0.3
1128	11/19/20	Campus	Front of School	School sign	Texture coat on metal		Intact	Negative	0
1129	11/19/20	Campus	Front of School	Flagpole	Metal		Intact	Negative	0.1
1130	11/19/20	Campus	Front of School	Perimeter fence	Metal		Intact	Negative	0.1
1131	11/19/20			Calibrate				Positive	1
1132	11/19/20			Calibrate				Positive	1.1
1133	11/19/20			Calibrate				Positive	1

APPENDIX B – SITE DRAWING

Janson Elementary School



Client: Rosemead SD

Project #: 20-Z0046-0134

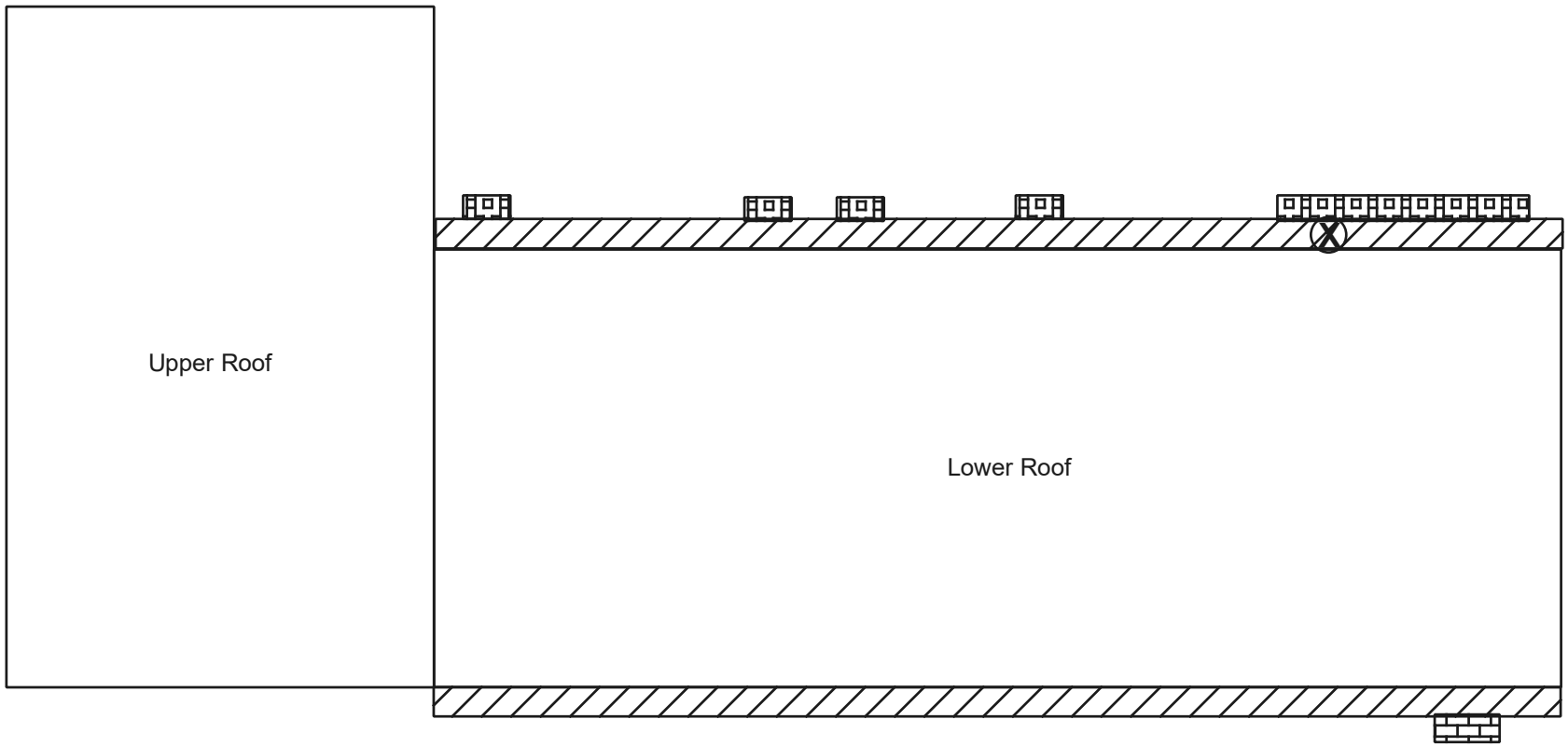
Info: Site Map

EXECUTIVE ENVIRONMENTAL
HEALTH & SAFETY SIMPLIFIED

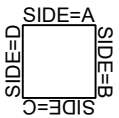
Site: Janson Elementary School
Adress: 8628 Marshall Street
Rosemead, California, 91170

Drawing Not to Scale - © 2012

Administration Building/Room 3
Exterior



- Wood Eave Components (Eave, Joints, Spacers)
-Wood Wall Panel Frame
-Wood Window Trim/Casing
X - Wood Transom Frame
- Wood Door Frame

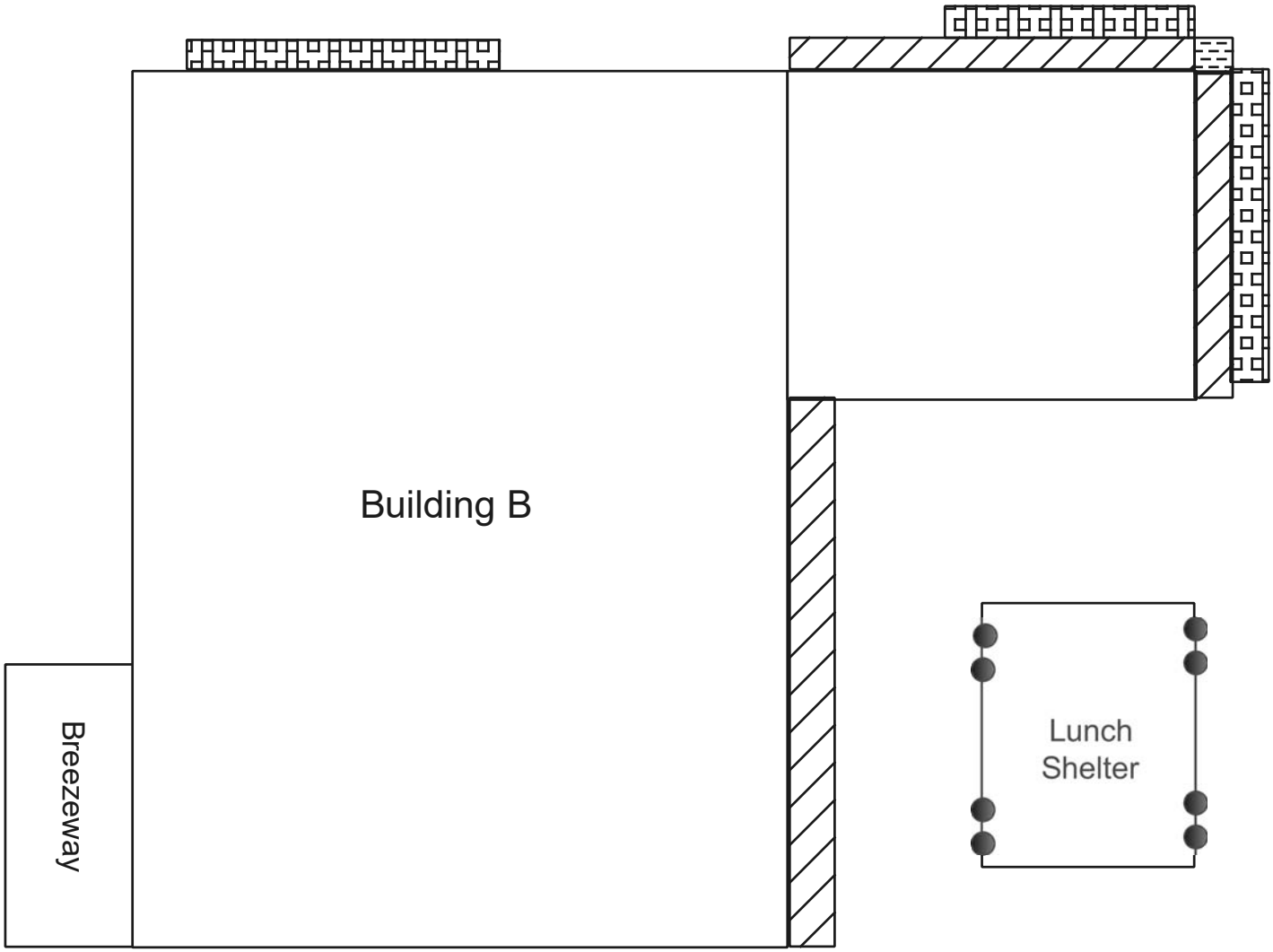


Client: Rosemead SD	**Project #:** 20-Z0046-0134	**Info:** Lead-Based Paint Identified

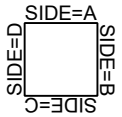
EXECUTIVE ENVIRONMENTAL
HEALTH & SAFETY SIMPLIFIED

Site: Janson Elementary School
Adress: 8628 Marshall Avenue
Rosemead, California, 91170

Building B (Room 4)
Exterior



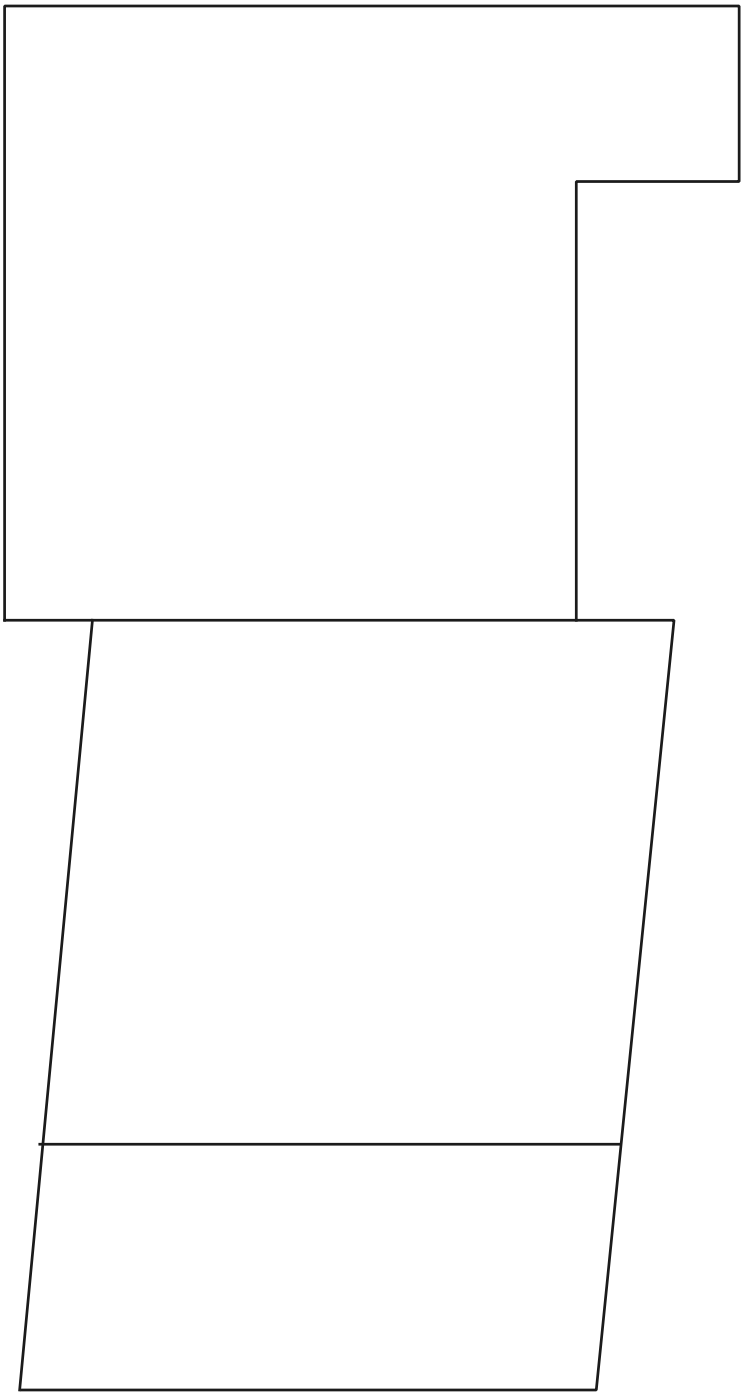
- Wood Eave Components (Eave, Joists, Spacers)
- Wood Window Components
- Wood Window Riser
- Support Poles



N

Client: Rosemead SD	**Project#:** 20-Z0046-0134	**Info:** Lead Based Paint Identified
EXECUTIVE ENVIRONMENTAL HEALTH & SAFETY SIMPLIFIED		**Site:** Janson Elementary School **Address:** 8628 Marshall Avenue Rosemead, CA 91770

Building C
Exterior

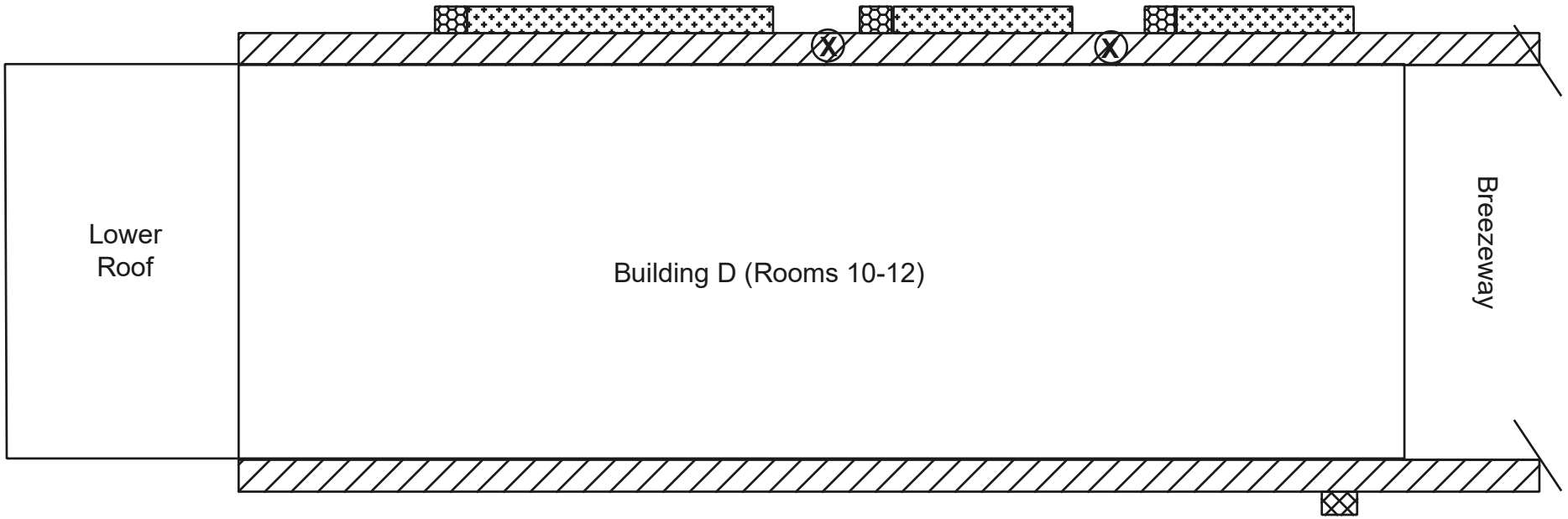


SIDE=A
SIDE=B
SIDE=C
SIDE=D

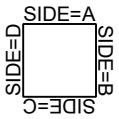
N

Client: Rosemead SD	**Project#:** 20-Z0046-0134	**Info:** No Lead Based Paint Identified
EXECUTIVE ENVIRONMENTAL **HEALTH & SAFETY SIMPLIFIED**		**Site:** Janson Elementary School **Address:** 8628 Marshall Avenue Rosemead, CA 91770

Building D (Rooms 10 through 12)
Exterior



- Wood Eave Components (Eave, Joists, Spacers)
- Wood Window Casing
- Wood Wall Trim
- Wood Wall Panel Frame
- Wood Door Frame
- X - Wood Transom Frame

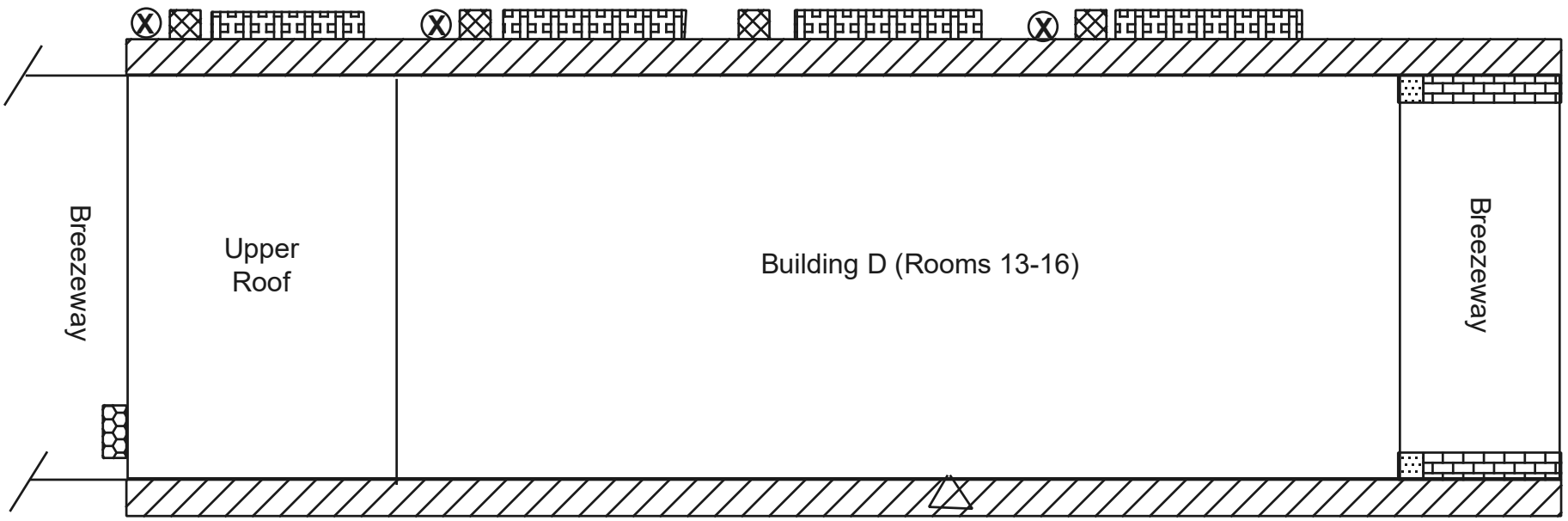


Client: Rosemead SD	**Project #:** 20-Z0046-0134	**Info:** Lead Based Paint Identified

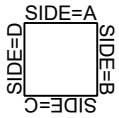
EXECUTIVE ENVIRONMENTAL
HEALTH & SAFETY SIMPLIFIED

Site: Janson Elementary School
Adress: 8628 Marshall Avenue
Rosemead, California, 91170

Building D (Rooms 13 through 16)
Exterior



- Wood Eave Components (Eave, Joist & Spacers)
- Wood Window Casing
- Wood Wall Trim
- Wood Ceiling Beam
- Metal Ceiing Beam Bracket
- Metal Wall Panel
- Wood Door Frame
- Wood Fire Hose Cabinet Door
- X - Wood Transom Frame



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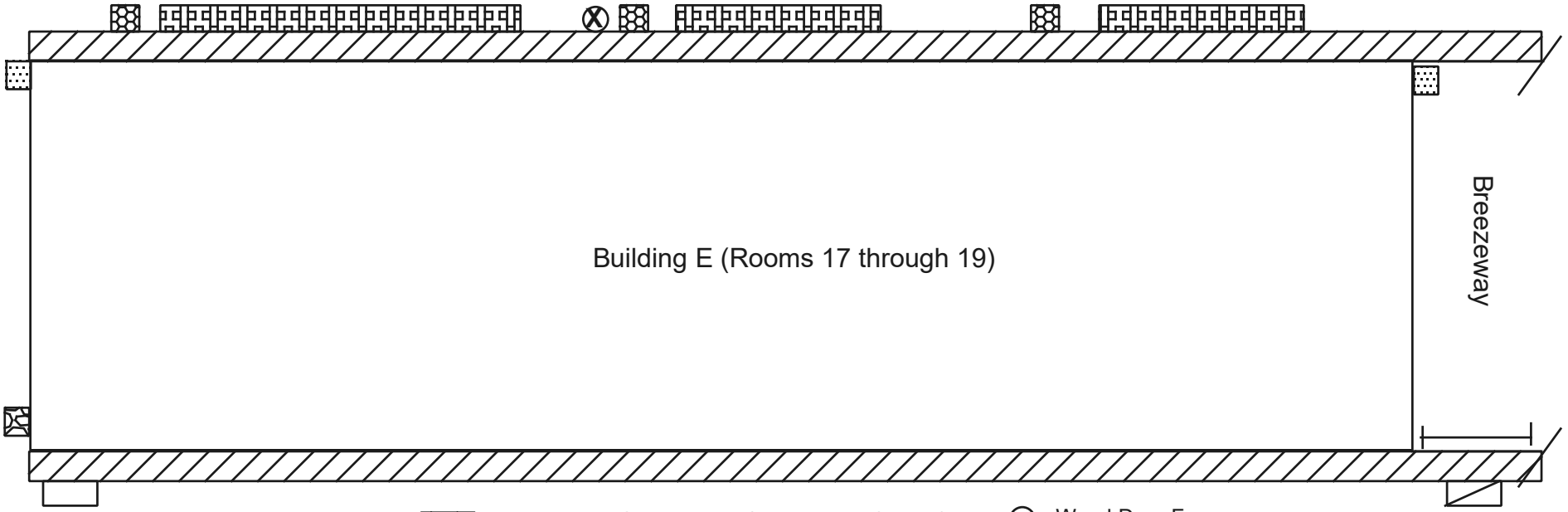
Client: Rosemead SD	**Project #:** 20-Z0046-0134	**Info:** Lead Based Paint Identified

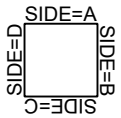
EXECUTIVE ENVIRONMENTAL
HEALTH & SAFETY SIMPLIFIED

Site: Janson Elementary School
Adress: 8628 Marshall Avenue
Rosemead, California, 91170

Building E (Rooms 17 through 19)
Exterior



- Wood Eave Components (Eave, Joist, Spacer)
- Wood Window Casing
- Wood Wall Trim
- Metal Ceiling Beam Bracket
- Metal Wall Panel
- Metal Wall Vent
- Metal Fire Hose Cabinet Door Frame
- Wood Door Frame
- Wood Transom Frame
- Wood Ceiling Beam



Client: Rosemead SD

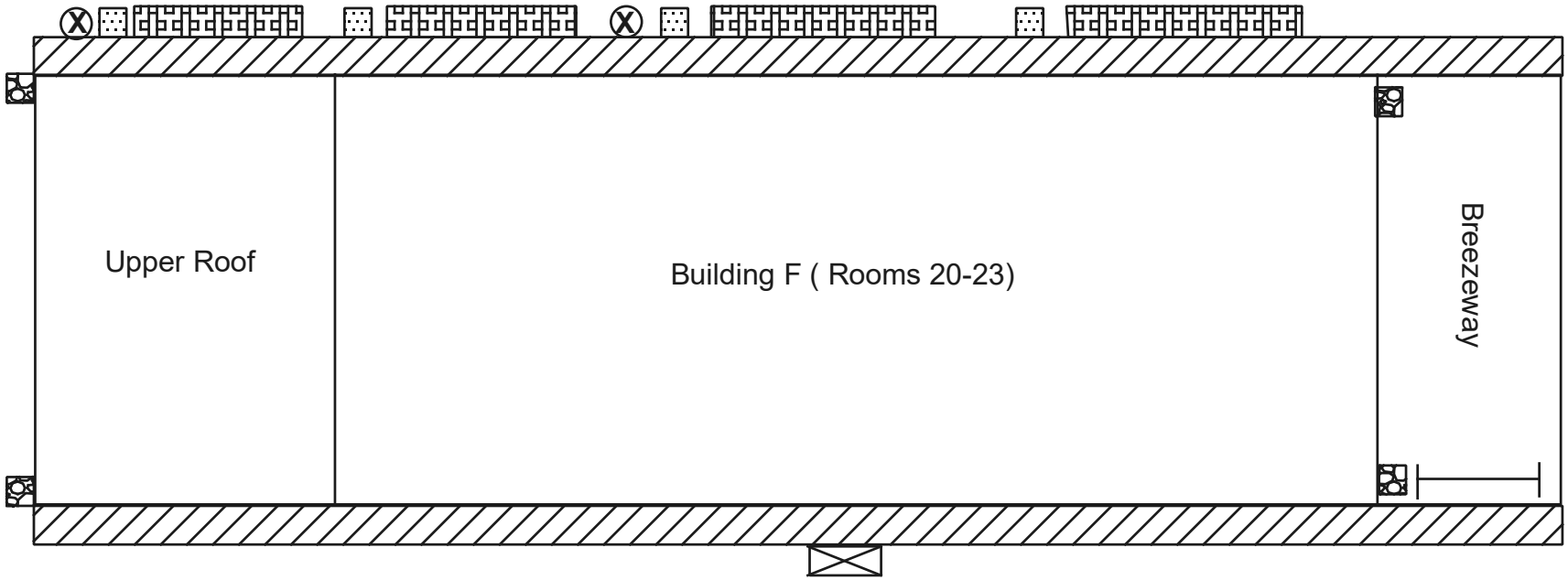
Project #: 20-Z0046-0134

Info: Lead Based Paint Identified

EXECUTIVE ENVIRONMENTAL
HEALTH & SAFETY SIMPLIFIED

Site: Janson Elementary School
Adress: 8628 Marshall Avenue
Rosemead, California, 91170

Building F (Rooms 20 through 23)
Exterior



- Wood Eave Components (Eave, Joist, Spacers)
- Wood Window Casing
- Wood Wall Trim
- Metal Ceiling Beam Bracket
- Fire Hose Cabinet Wood Door/Metal Door Frame
- Wood Door Frames
- X - Wood Transom Frames
- Wood Ceiling Beam

SIDE=A
SIDE=B
SIDE=C
SIDE=D

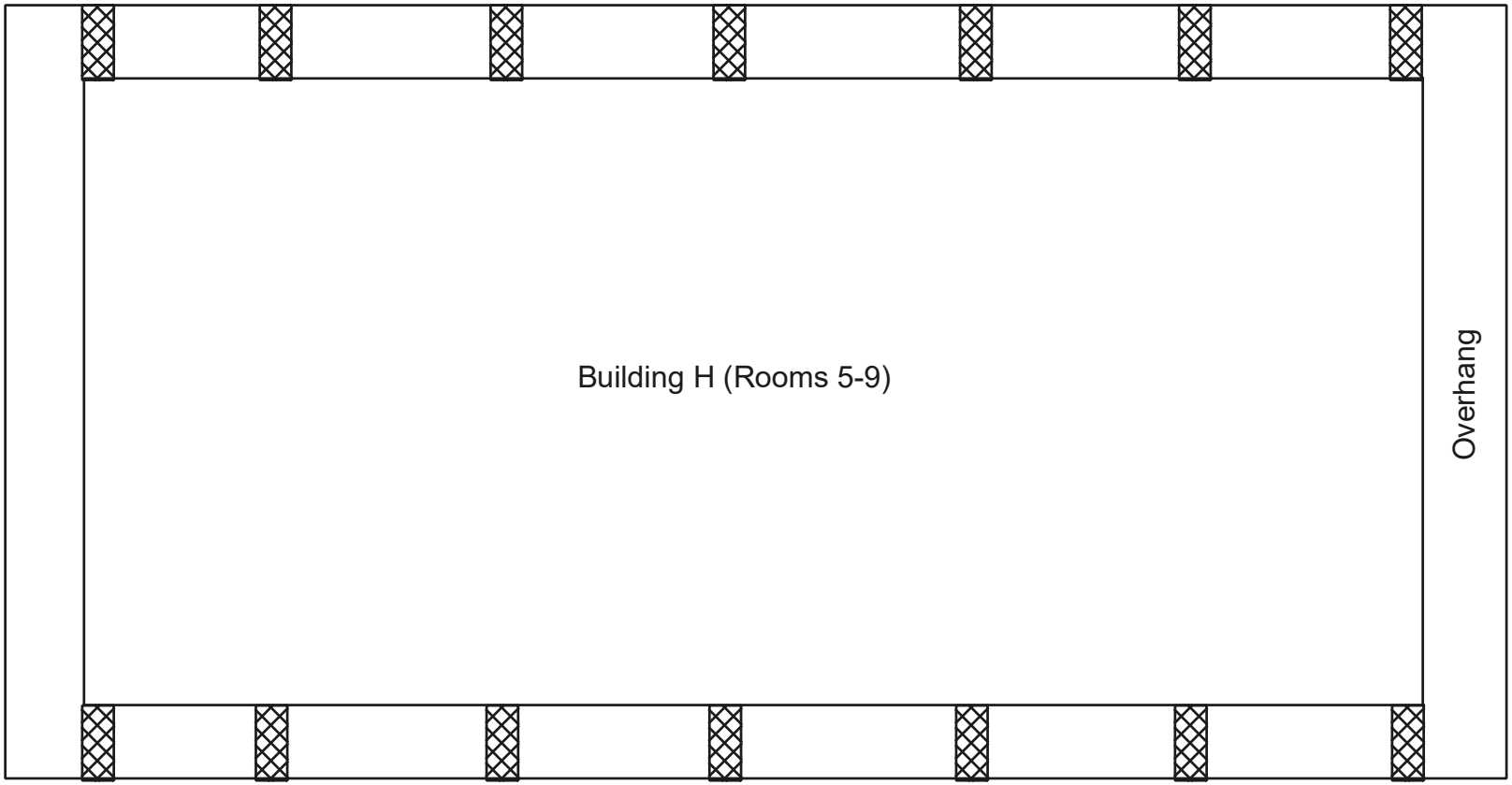
N

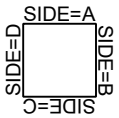
Client: Rosemead SD	**Project #:** 20-Z0046-0134	**Info:** Lead Based Paint Identified

EXECUTIVE ENVIRONMENTAL
HEALTH & SAFETY SIMPLIFIED

Site: Janson Elementary School
Adress: 8628 Marshall Avenue
Rosemead, California, 91170

Building H (Rooms 5 through 9)
Exterior

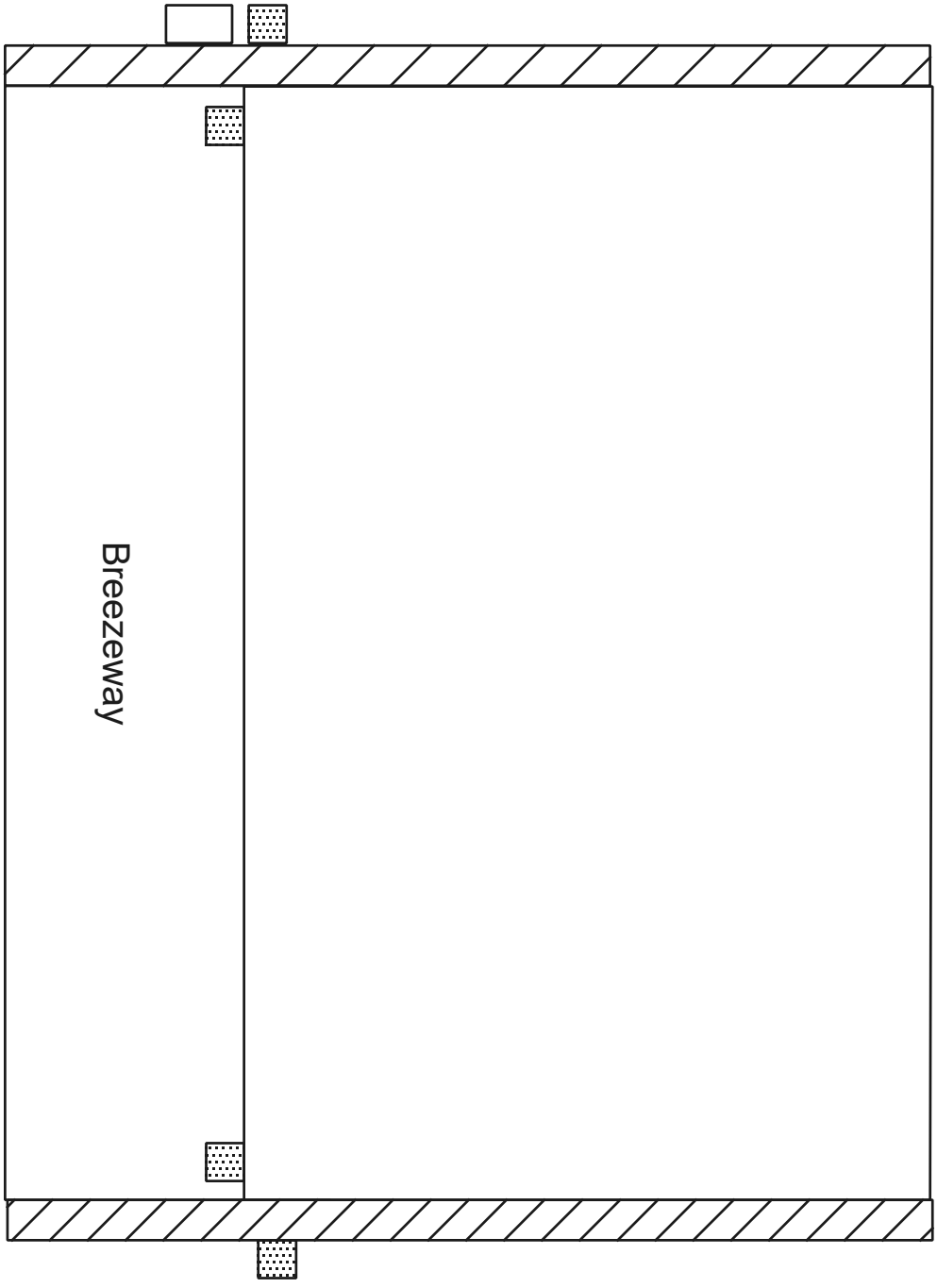




- Metal Overhang Beam

Client: Rosemead SD	**Project #:** 20-Z0046-0134	**Info:** Lead Based Paint Identified
EXECUTIVE ENVIRONMENTAL **HEALTH & SAFETY SIMPLIFIED**		**Site:** Janson Elementary School **Adress:** 8628 Marshall Avenue Rosemead, California, 91170

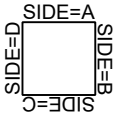
Restroom Building 1
Exterior



Wood Eave Components (Eave, Joist & Spacers)

- Metal Ceiling Beam Bracket

- Attic Access Frame (Metal)



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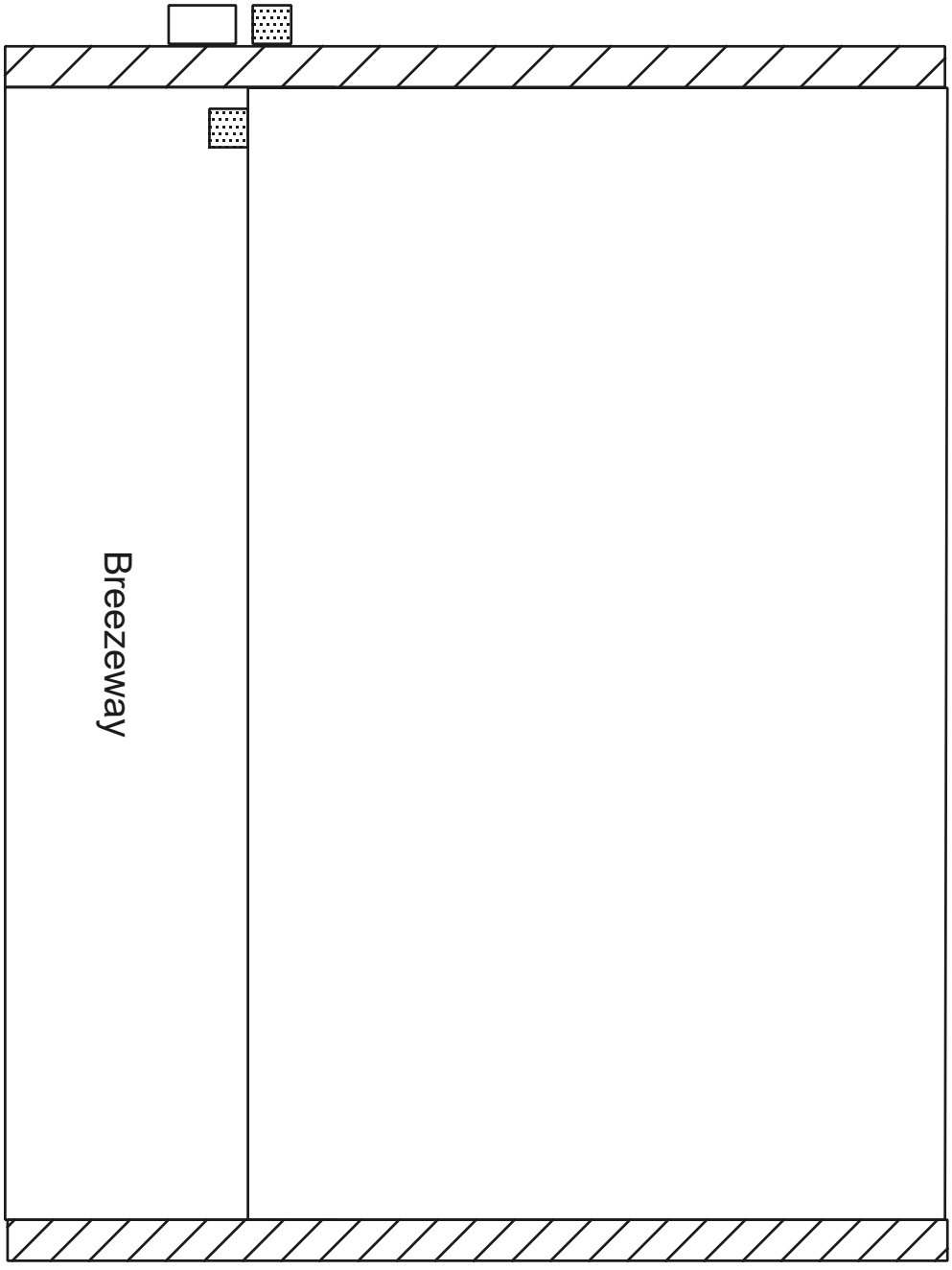
Client: Rosemead SD	**Project#:** 20-Z0046--0134	**Info:** Lead Based Paint Identified
EXECUTIVE ENVIRONMENTAL HEALTH & SAFETY SIMPLIFIED		**Site:** Janson Elementary School **Address:** 8628 East Marshall Avenue Rosemead, CA 91770

Restroom Building 2



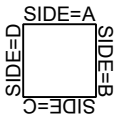
- Wood Eave Components (Eave, Joist, Spacers)
- Metal Ceiling Beam Bracket
- Attic Access Frame (Metal)

SIDE=A
SIDE=B
SIDE=C
SIDE=D

N

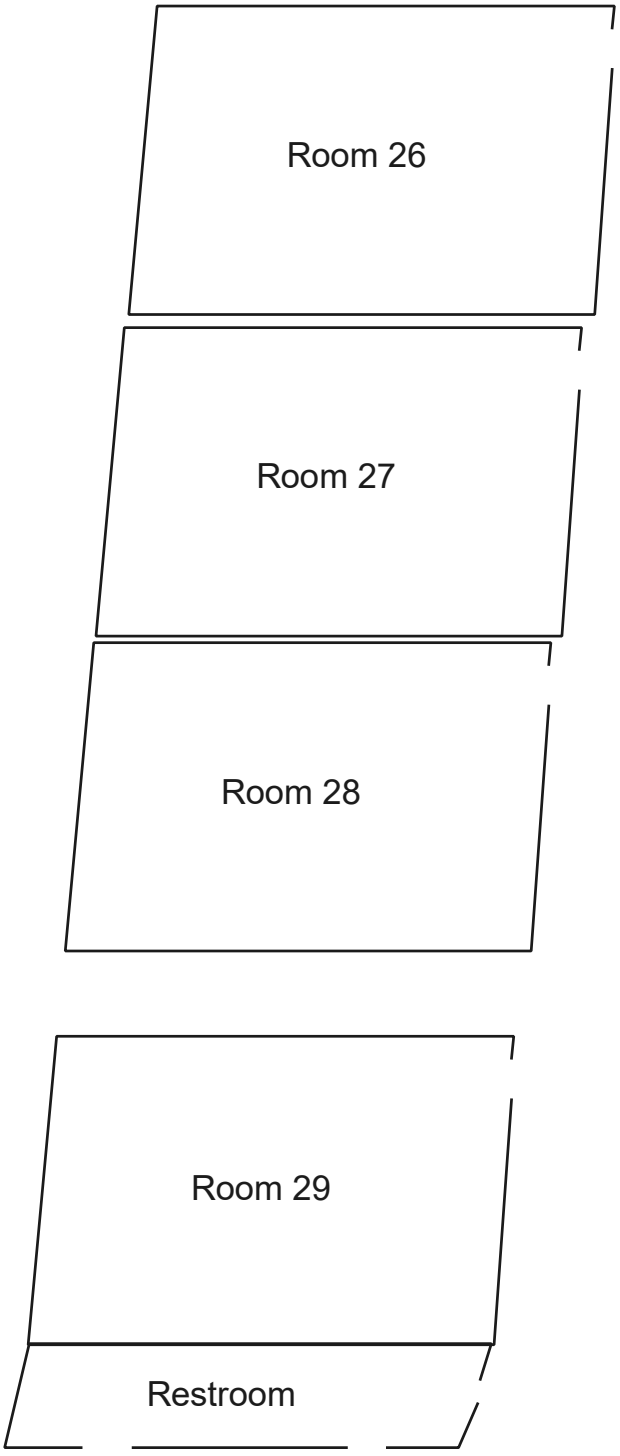
Client: Rosemead SD	**Project#:** 20-Z0046-0134	**Info:** Lead Based Paint Identified
EXECUTIVE ENVIRONMENTAL HEALTH & SAFETY SIMPLIFIED		**Site:** Janson Elementary School **Address:** 8628 East Marshall Avenue Rosemead, CA 91770

Portables
(Building K and Building J)
Exterior



Client: Rosemead SD	**Project #:** 20-Z0046-0134	**Info:** No Lead Based Paint Identified
EXECUTIVE ENVIRONMENTAL **HEALTH & SAFETY SIMPLIFIED**		**Site:** Janson Elementary School **Adress:** 8628 Marshall Avenue Rosemead, California, 91170

Building L (Portables)

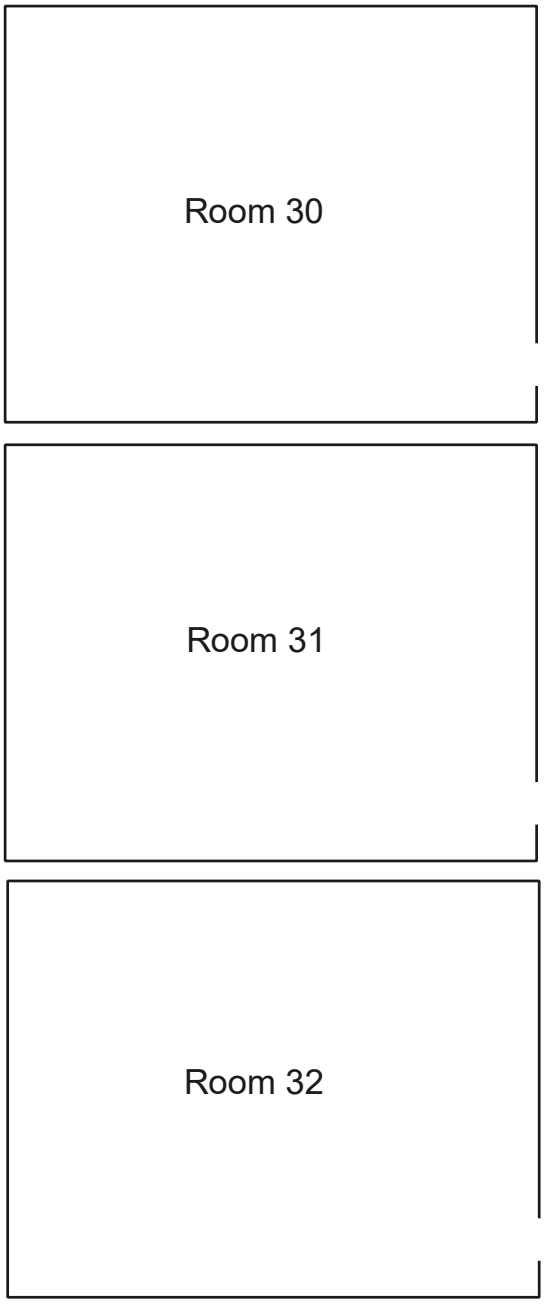


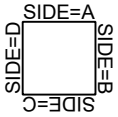
SIDE=A
SIDE=B
SIDE=C
SIDE=D

N

Client: Rosemead SD	**Project#:** 20-Z0046-0134	**Info:** No Lead Based Paint Identified
EXECUTIVE ENVIRONMENTAL **HEALTH & SAFETY SIMPLIFIED**		**Site:** Janson Elementary School **Address:** 8628 Marshall Avenue Rosemead, CA 91770

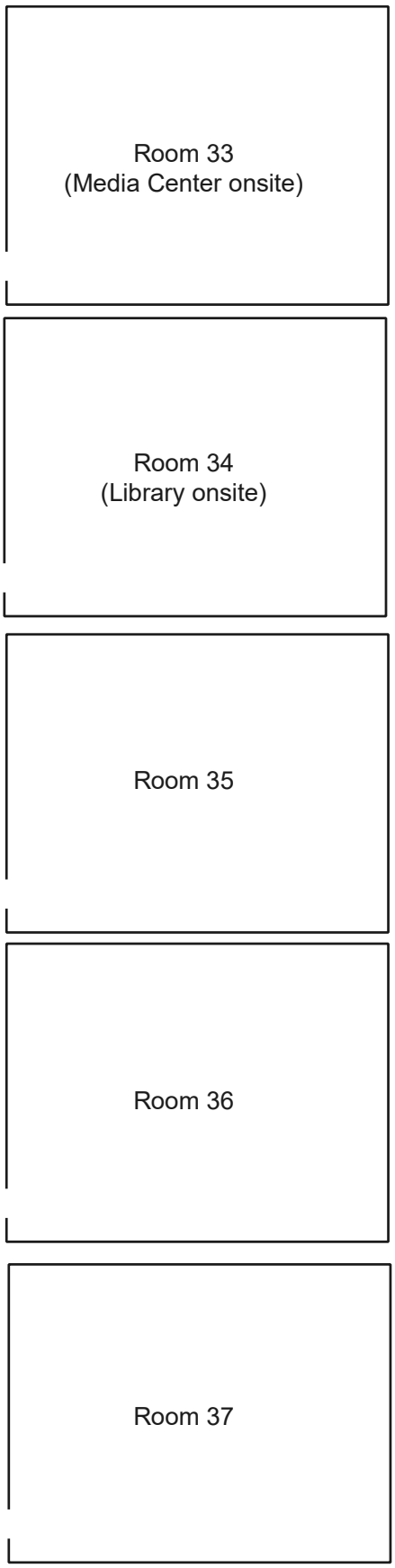
Building Q (Portables)

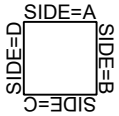




Client: Rosemead SD	**Project#:** 20-Z0046-0134	**Info:** No Lead Based Paint Identified
EXECUTIVE ENVIRONMENTAL **HEALTH & SAFETY SIMPLIFIED**		**Site:** Janson Elementary School **Address:** 8628 Marshall Avenue Rosemead, CA 91770

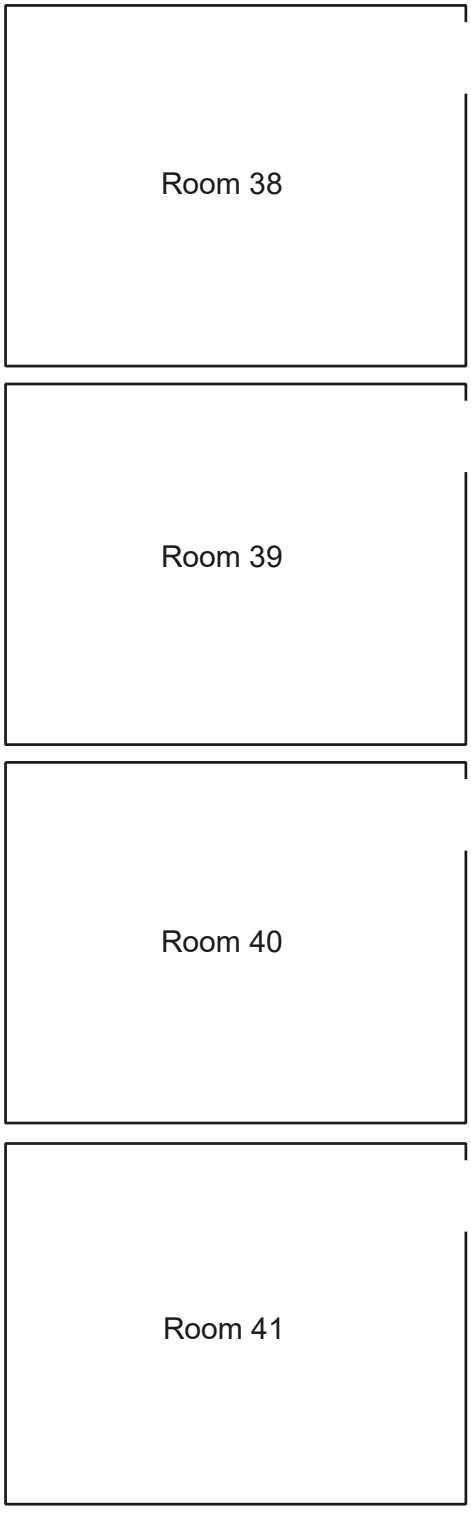
Building M (Portables)

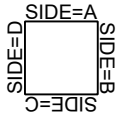




Client: Rosemead SD	**Project#:** 20-Z0046-0134	**Info:** No Lead Based Paint Identified
EXECUTIVE ENVIRONMENTAL HEALTH & SAFETY SIMPLIFIED		**Site:** Janson Elementary School **Address:** 8628 Marshall Avenue Rosemead, CA 91770

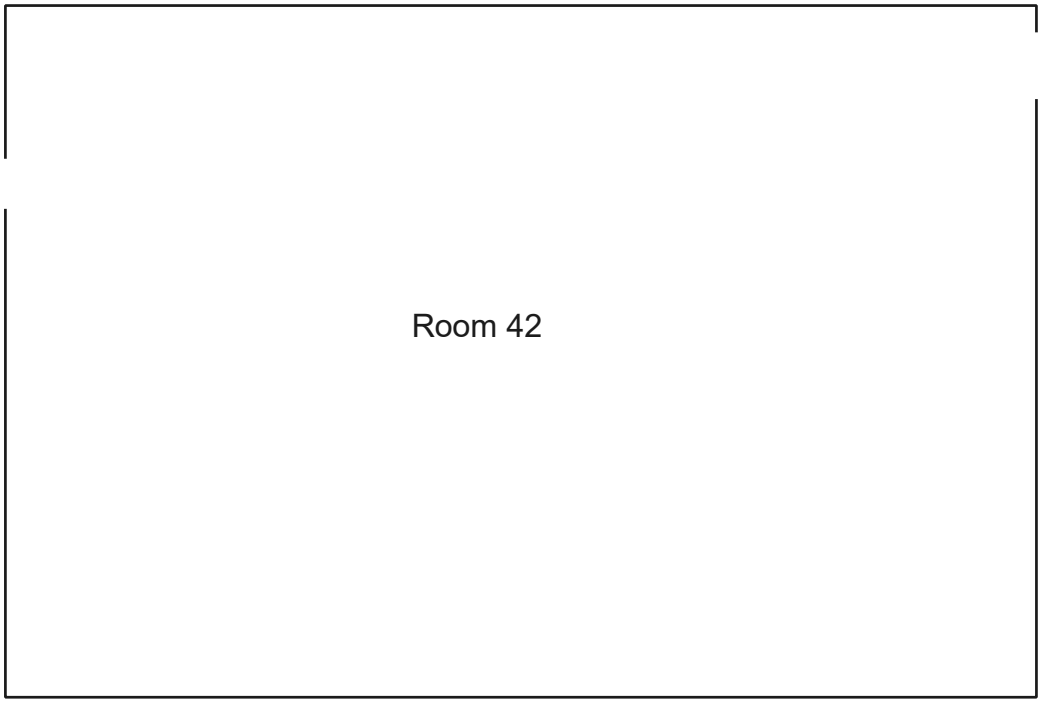
Building N (Portables)

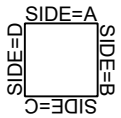




Client: Rosemead SD	**Project#:** 20-Z0046-0134	**Info:** No Lead Based Paint Identified
EXECUTIVE ENVIRONMENTAL HEALTH & SAFETY SIMPLIFIED		**Site:** Janson Elementary School **Address:** 8628 Marshall Avenue Rosemead, CA 91770

Building O (Portables)



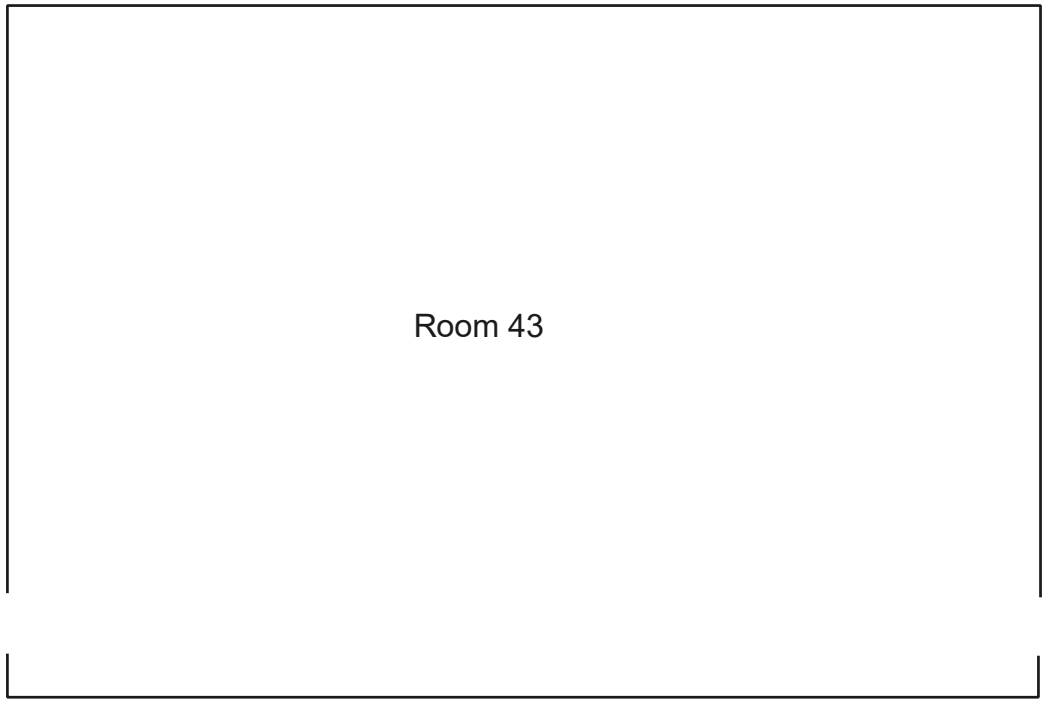


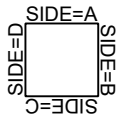
Client: Rosemead SD	**Project #:** 20-Z0046-0134	**Info:** No Lead Based Paint Identified

EXECUTIVE ENVIRONMENTAL
HEALTH & SAFETY SIMPLIFIED

Site: Janson Elementary School
Adress: 8628 Marshall Avenue
Rosemead, California, 91170

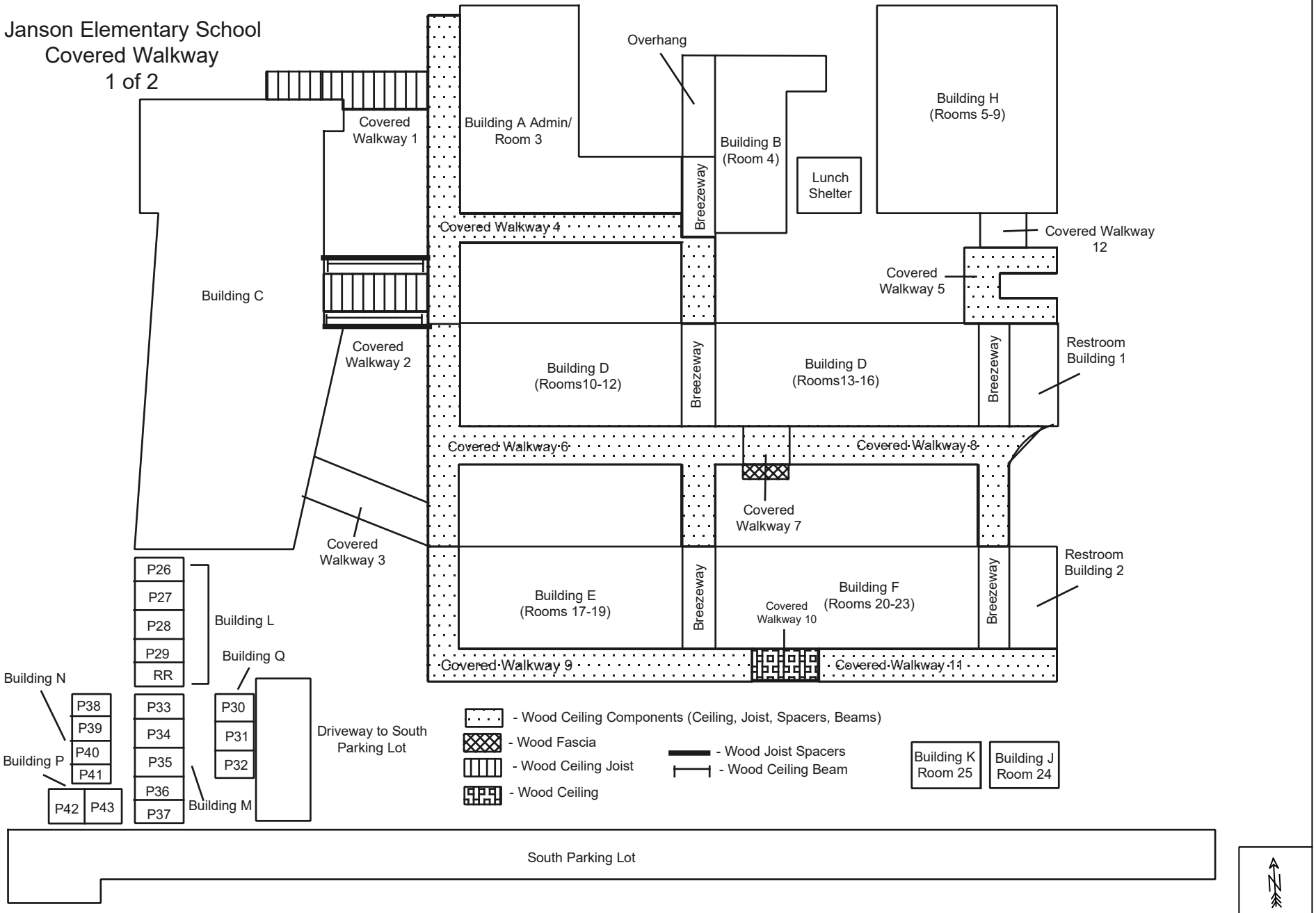
Building P (Portable)





Client: Rosemead SD	**Project #:** 20-Z0046-0134	**Info:** No Lead Based Paint Identified
EXECUTIVE ENVIRONMENTAL **HEALTH & SAFETY SIMPLIFIED**		**Site:** Janson Elementary School **Adress:** 8628 Marshall Avenue Rosemead, California, 91170

Janson Elementary School
Covered Walkway
1 of 2



Client: Rosemead SD

Project #: 20-Z0046-0134

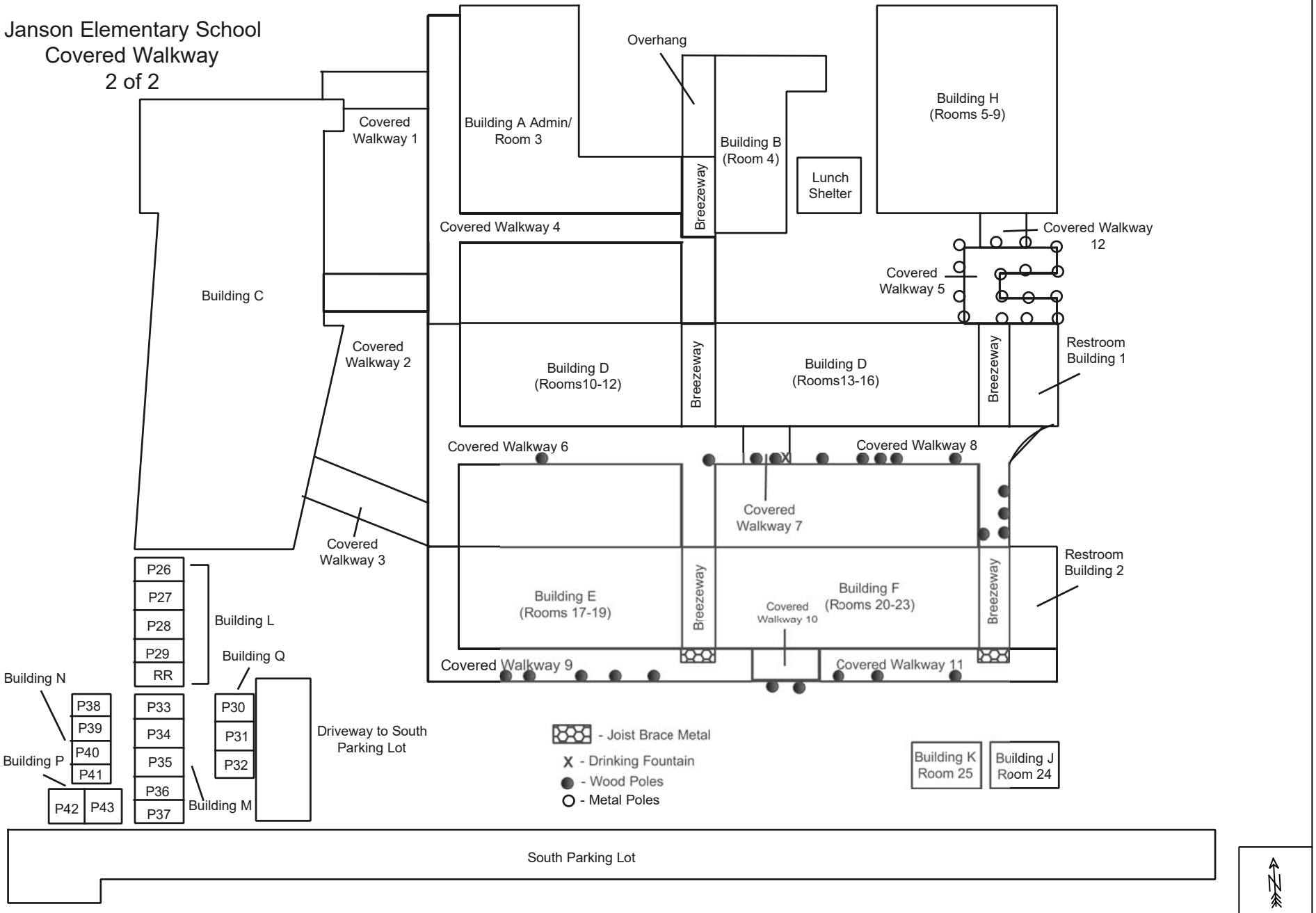
Info: Lead Based Paint Identified

EXECUTIVE ENVIRONMENTAL
HEALTH & SAFETY SIMPLIFIED

Site: Janson Elementary School
Adress: 8628 Marshall Avenue
Rosemead, California, 91170

Drawing Not to Scale - © 2012

Janson Elementary School
Covered Walkway
2 of 2



Client: Rosemead SD	**Project #:** 20-Z0046-0134	**Info:** Lead Based Paint Identified

EXECUTIVE ENVIRONMENTAL
HEALTH & SAFETY SIMPLIFIED

Site: Janson Elementary School
Adress: 8628 Marshall Avenue
Rosemead, California, 91170

Drawing Not to Scale - © 2012

APPENDIX C – LEAD HAZARD EVALUATION REPORT

LEAD HAZARD EVALUATION REPORT

Section 1 — Date of Lead Hazard Evaluation 11/9-12/2020

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

☑ Lead Inspection ☐ Risk assessment ☐ Clearance Inspection ☐ Other (specify) _____

Section 3 — Structure Where Lead Hazard Evaluation Was Conducted

Address [number, street, apartment (if applicable)]	City	County	Zip Code
8628 Marshall Ave.	Rosemead	Los Angeles	91770

Construction date (year) of structure	Type of structure		Children living in structure?	
N/N	☐ 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 (Harold Sullins)	626-312-2900

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
Tim Galeana	626-441-7050

Address [number, street, apartment (if applicable)]	City	State	Zip Code
310 East Foothill Blvd. Suite 200	Arcadia	Ca	901006

CDPH certification number	Signature	Date
0394/0395		11/12/2020

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

APPENDIX D – XRF PERFORMANCE CHARACTERISTICS SHEET

Performance Characteristic Sheet

EFFECTIVE DATE: **December 1, 2015**

MANUFACTURER AND MODEL:

Make: ***Heuresis***
Models: ***Model Pb200i***
Source: ***^{57}Co, 5 mCi (nominal – new source)***

FIELD OPERATION GUIDANCE

OPERATING PARAMETERS:

Action Level mode

XRF CALIBRATION CHECK LIMITS:

0.8 to 1.2 mg/cm^2 (inclusive)

SUBSTRATE CORRECTION:

Not applicable

INCONCLUSIVE RANGE OR THRESHOLD:

ACTION LEVEL MODE READING DESCRIPTION	SUBSTRATE	THRESHOLD (mg/cm^2)
Results not corrected for substrate bias on any substrate	Brick Concrete Drywall Metal Plaster Wood	1.0 1.0 1.0 1.0 1.0 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 using test results on building components in the HUD archive. Testing was conducted on 146 test samples in November 2015, with two separate instruments running software version 2.1-2 in Action Level test mode. The actual source strength of each instrument on the day of testing was approximately 2.0 mCi; source ages were approximately one year.

OPERATING PARAMETERS

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

XRF CALIBRATION CHECK:

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

SUBSTRATE CORRECTION VALUE COMPUTATION:

Chapter 7 of the HUD Guidelines provides guidance on correcting XRF results for substrate bias. Supplemental guidance for using the paint film nearest 1.0 mg/cm^2 for substrate correction is provided:

XRF results are corrected for substrate bias by subtracting from each XRF result a correction value determined separately in each house for single-family housing or in each development for multifamily housing, for each substrate. The correction value is an average of XRF readings taken over the NIST SRM paint film nearest to 1.0 mg/cm^2 at test locations that have been scraped bare of their paint covering. Compute the correction values as follows:

> Using the same XRF instrument, take three readings on a bare substrate area covered with the NIST SRM paint film nearest 1 mg/cm^2. Repeat this procedure by taking three more readings on a second bare substrate area of the same substrate covered with the NIST SRM.
>
> Compute the correction value for each substrate type where XRF readings indicate substrate correction is needed by computing the average of all six readings as shown below.
>
> <u>For each substrate type</u> (the 1.02 mg/cm^2 NIST SRM is shown in this example; use the actual lead loading of the NIST SRM used for substrate correction):
>
> Correction value = (1st + 2nd + 3rd + 4th + 5th + 6th *Reading*)/6 - 1.02 mg/cm^2
>
> Repeat this procedure for each substrate requiring substrate correction in the house or housing development.

EVALUATING THE QUALITY OF XRF TESTING:

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

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

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

Determine XRF results for the original and retest XRF readings. Do not correct the original or retest results for substrate bias. In single-family and multi-family housing, a result is defined as a single reading. Therefore, there will be ten original and ten retest XRF results for each house or for the two selected units.

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

Square the average for each testing combination.

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

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

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

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

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

Compute the average of all ten original XRF readings.

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

Find the absolute difference of the two averages.

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

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

TESTING TIMES:

In the Action Level paint test mode, the instrument takes the longest time to complete readings close to the Federal standard of 1.0 mg/cm^2. The table below shows the mean and standard deviation of actual reading times by reading level for paint samples during the November 2015 archive testing. The tested instruments reported readings to one decimal place. No significant differences in reading times by substrate were observed. These times apply only to instruments with the same source strength as those tested (2.0 mCi). Instruments with stronger sources will have shorter reading times and those with weaker sources, longer reading times, than those in the table.

Mean and Standard Deviation of Reading Times in Action Level Mode by Reading Level		
Reading (mg/cm^2)	**Mean Reading Time (seconds)**	**Standard Deviation (seconds)**
< 0.7	3.48	0.47
0.7	7.29	1.92
0.8	13.95	1.78
0.9 – 1.2	15.25	0.66
1.3 – 1.4	6.08	2.50
$\geq$ 1.5	3.32	0.05

CLASSIFICATION OF RESULTS:

XRF results are classified as **positive** if they are **greater than or equal** to the stated threshold for the instrument (1.0 mg/cm^2), and *negative* if they are *less than* the threshold.

DOCUMENTATION:

A report titled *Methodology for XRF Performance Characteristic Sheets* (EPA 747-R-95-008) 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. The report may be downloaded at http://www2.epa.gov/lead/methodology-xrf-performance-characteristic-sheets-epa-747-r-95-008-september-1997.

This XRF Performance Characteristic Sheet (PCS) was developed by QuanTech, Inc., under a contract with the XRF manufacturer.