Rosemead School District

TECHNICAL SPECIFICATION

HAZARDOUS MATERIALS REMOVAL/IMPACT

CAMPUS WIDE EXTERIOR PAINTING PROJECT

SHUEY ELEMENTARY SCHOOL
8472 EAST WELLS STREET
ROSEMEAD, CALIFORNIA 91770

Volume 1 of 1

EE Project No. 21-Z0046-0066

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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
Shuey Elementary School 8472 East Wells Street 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 Administration/Classroom Building (Rooms 1 thru 4)						
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 Classroom Building (Rooms 6 thru 12)						
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 Classroom Building (Rooms 13 thru 16)						
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 Restroom Building						
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 Multi-Purpose Building						
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 Classroom Building (Rooms 33 thru 35)						
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 Classroom Building (Room 36)						
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 Portables						
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 for Portables 5, 17 thru 32 and Restroom Portable .					

Asbestos-Containing Materials Covered Walkways						
Item No.	**Material Description**	**Type of work**	**Location**	**Quantity**	**ACM content**	**Applicable Haz. Mat'l section**
9	No suspect asbestos-containing materials were identified as pertaining to the materials anticipated to be impacted by the Exterior Painting Project for the Southeast, Northeast and Northwest Covered Walkways.					

Asbestos-Containing Materials Campus						
Item No.	**Material Description**	**Type of work**	**Location**	**Quantity**	**ACM content**	**Applicable Haz. Mat'l section**
10	No suspect asbestos-containing materials were identified as pertaining to the materials anticipated to be impacted by the Exterior Painting Project for Parking Lots 1 and 2, Kindergarten Playground and Main Playground.					

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 **Administration/Classroom Building (Rooms 1 thru 4)**						
Item No.	**Material Description**	**Type of work**	**Location**	**Quantity**	**Lead content Mg/cm^2**	**Applicable Haz. Mat'l section**
11	Wood overhang riser/vertical beam (green, decorative)	Surface preparation for repainting as indicated in plans	Exterior, side A at porch area/main entry to Office	65 Square Feet	1.9	02093 HM
12	Metal downspout	Surface preparation for repainting as indicated in plans	Exterior, sides A & C	185 Linear Feet	0.7-1	02093 HM
13	Wood window sash (green)	Surface preparation for repainting as indicated in plans	Exterior, sides A & C	50 Windows	1	02093 HM
14	Wood fire hose case	Surface preparation for repainting as indicated in plans	Exterior, side C	2 Total	0.7	02093 HM
15	Wood overhang support beam (9”x6” horizontal beam)	Surface preparation for repainting as indicated in plans	Side C at top of brick vertical support	260 Square Feet	2	02093 HM
16	Wood fascia	Surface preparation for repainting as indicated in plans	Exterio,r throughout perimeter	570 Linear Feet	1.3	02093 HM
17	Wood overhang	Surface preparation for repainting as indicated in plans	Exterior, sides A & C	3,800 Square Feet	1.2	02093 HM

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

Lead-Based Paint Restroom Building						
Item No.	**Material Description**	**Type of work**	**Location**	**Quantity**	**Lead content Mg/cm^2**	**Applicable Haz. Mat'l section**
18	Metal vent	Surface preparation for repainting as indicated in plans	Exterior, side B	1 Total	0.7	02093 HM
19	Metal drip edge	Surface preparation for repainting as indicated in plans	Exterior, throughout perimeter edge metal	130 Linear Feet	1.4	02093 HM

Lead-Based Paint Classroom Building (Classrooms 6 thru 12)						
Item No.	**Material Description**	**Type of work**	**Location**	**Quantity**	**Lead content Mg/cm^2**	**Applicable Haz. Mat'l section**
20	Metal downspout	Surface preparation for repainting as indicated in plans	Exterior, sides A & C	155 Linear Feet	10.7	02093 HM
21	Wood window sash (green)[i]	Surface preparation for repainting as indicated in plans	Exterior, side C	49 Windows	0.7	02093 HM
22	Metal conduit	Surface preparation for repainting as indicated in plans	Exterior, side C on overhang rafter	40 Linear Feet	0.7	02093 HM
23	Wood overhang support beam (9”x6” horizontal beam)	Surface preparation for repainting as indicated in plans	Exterior, side C at top of brick vertical support and side D, overhang beams	300 Square Feet	0.7	02093 HM
24	Wood fascia	Surface preparation for repainting as indicated in plans	Exterior throughout	620 Linear Feet	0.7	02093 HM

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

[i] NOTE: 1) Some window sash are peeling.

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**
25	Wood window sash	Surface preparation for repainting as indicated in plans	Exterior, sides A & C	51 Windows	0.7	02093 HM
26	Wood window casing	Surface preparation for repainting as indicated in plans	Exterior, sides A & C	83 Windows	0.8	02093 HM
27	Wood window sill	Surface preparation for repainting as indicated in plans	Exterior, sides A & C upper and lower windows on side C	83 Windows	1.1	02093 HM
28	Wood overhang/overhang rafter	Surface preparation for repainting as indicated in plans	Exterior, side A & C	2,300 Square Feet	0.7-1.4	02093 HM
29	Wood overhang support beam (9”x6” horizontal beam)	Surface preparation for repainting as indicated in plans	Exterior, side C at top of brick vertical support	142 Square Feet	0.8	02093 HM
30	Wood fascia	Surface preparation for repainting as indicated in plans	Exterior throughout perimeter	375 Linear Feet	0.7	02093 HM
31	Floor stripe on concrete (white over orange stripes)	Surface preparation for repainting as indicated in plans	Exterior, side C	50 Linear Feet	1.1	02093 HM
32	Porcelain drinking fountain	Surface preparation for repainting as indicated in plans	Exterior, side C	2 Total	36	02093 HM

Lead-Based Paint Multi-Purpose Building						
Item No.	**Material Description**	**Type of work**	**Location**	**Quantity**	**Lead content Mg/cm^2**	**Applicable Haz. Mat'l section**
33	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 Classroom Building (Rooms 33 thru 35)						
Item No.	**Material Description**	**Type of work**	**Location**	**Quantity**	**Lead content Mg/cm^2**	**Applicable Haz. Mat'l section**
34	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 Classroom Building (Room 36)						
Item No.	**Material Description**	**Type of work**	**Location**	**Quantity**	**Lead content Mg/cm²**	**Applicable Haz. Mat'l section**
35	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 Portables						
Item No.	**Material Description**	**Type of work**	**Location**	**Quantity**	**Lead content Mg/cm²**	**Applicable Haz. Mat'l section**
36	Metal gutter	Surface preparation for repainting as indicated in plans	Room 29: Exterior sides B & D	50 Linear feet	15	02093 HM
37	No regulated lead-based paint was identified as pertaining to the surfaces or components anticipated to be impacted by the Exterior Painting Project for Portables 5, 17 thru 28, 30 thru 32 and Restroom Portable.					

Lead-Based Paint Covered Walkways						
Item No.	**Material Description**	**Type of work**	**Location**	**Quantity**	**Lead content Mg/cm²**	**Applicable Haz. Mat'l section**
38	Metal gutter	Surface preparation for repainting as indicated in plans	Northeast Covered Walkway, side D	60 Linear Feet	1	02093 HM
39	Metal ceiling beam	Surface preparation for repainting as indicated in plans	Northeast Covered Walkway, sides b & D	80 Linear Feet	1.8	
40	No regulated lead-based paint was identified as pertaining to the surfaces or components anticipated to be impacted by the Exterior Painting Project for Southeast and Northwest Covered Walkways.					

Lead-Based Paint Campus						
Item No.	**Material Description**	**Type of work**	**Location**	**Quantity**	**Lead content Mg/cm²**	**Applicable Haz. Mat'l section**
41	No regulated lead-based paint was identified as pertaining to the surfaces or components anticipated to be impacted by the Exterior Painting Project for Parking Lots 1 and 2, Main Playground, Basketball Court, School Sign, Gate, Fence, Kindergarten Playground, Kindergarten Storage Shed, Storage Sheds 1, 2, 3, 4, 5 and 6.					

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 JULY 23, 2021

EXECUTIVE ENVIRONMENTAL
HEALTH & SAFETY SIMPLIFIED

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

LIMITED ASBESTOS INSPECTION REPORT

Conducted at:

SHUEY ELEMENTARY SCHOOL
PAINTING PROJECT
8472 EAST WELLS STREET
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 21-Z0046-0066
July 23, 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

TABLE OF CONTENTS

LIMITED ASBESTOS INSPECTION REPORT

Project Number:	EE 21-Z0046-0066
Client:	Rosemead School District 3907 Rosemead Boulevard, Suite 220 Rosemead, California 91770
Site Location:	Shuey Elementary School Painting Project 8472 East Wells Street Rosemead, California 91770
Site Use:	School Property
Contact Person:	Mr. Harold Sullins Assistant Superintendent Phone: (626) 312-2900
Inspection Date:	May 18, 24 and 25, 2021
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 Shuey Elementary School located at 8472 East Wells Street, 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 Shuey 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, and LA Testing of South Pasadena, 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. LA Testing is an accredited participant in the National Voluntary Laboratory Accreditation Program (NVLAP), No. 200232-0, and is also accredited by the American Industrial Hygiene Association (AIHA), No. 102814. 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

Sixty-six (66) 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

Shuey Elementary School
8472 East Wells Street
Rosemead, California 91770

Homogeneous Material #	Material Description	Material Location	Estimated Quantity	Condition[A]	Type[B]	Friable	Percent Damaged	Sample Number	Sample Location	Analytical Results
Administration/Classroom Building (Rooms 1 thru 4)[C]										
1	Stucco	Throughout exterior walls and breezeway ceiling	6,000 Square Feet	G	Surf.	No	<1	2105180066RK-01	West wall	NAD[D]
								2105180066RK-02	South wall of Admin. Bldg.	NAD
								2105180066RK-03	South wall of Rooms 1 and 2	NAD
								2105180066RK-04	East wall	NAD
								2105180066RK-05	North wall of Admin. Bldg.	NAD
								2105180066RK-06	West wall of Breezeway	NAD
								2105180066RK-07	Southwest ceiling of Breezeway	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.

POLARIZED LIGHT MICROSCOPY (PLM) ANALYSIS DATA

Shuey Elementary School
8472 East Wells Street
Rosemead, California 91770

Homogeneous Material #	Material Description	Material Location	Estimated Quantity	Condition[E]	Type[F]	Friable	Percent Damaged	Sample Number	Sample Location	Analytical Results
Classroom Building (Rooms 6 thru 12)[G]										
2	Stucco	Throughout exterior walls, overhang and breezeway ceiling	5,000 Square Feet	G	Surf.	No	<1	2105180066RK-08	West wall	NAD[H]
								2105180066RK-09	South wall of Rooms 9 - 12	NAD
								2105180066RK-10	East wall of Breezeway	<1% chrysotile[I]
										1000-Pt. Ct.: <0.1% chrysotile
								2105180066RK-11	South wall of Rooms 6 - 8	NAD
								2105180066RK-12	East wall	NAD
								2105180066RK-13	North wall of Rooms 9 - 12	NAD
								2105180066RK-14	Southwest ceiling of Breezeway	NAD

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[E] G = Good; D = Damaged; SD = Severely Damaged
[F] Misc. = Miscellaneous; Surf. = Surfacing; TSI = Thermal System Insulation
[G] NOTE: 1) Wood overhangs. 2) No window putty.
[H] NAD = No Asbestos Detected.
[I] Sample 10 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

Shuey Elementary School
8472 East Wells Street
Rosemead, California 91770

Homogeneous Material #	Material Description	Material Location	Estimated Quantity	Condition[J]	Type[K]	Friable	Percent Damaged	Sample Number	Sample Location	Analytical Results
Classroom Building (Rooms 13 thru 16)[L]										
3	Stucco	Throughout exterior walls and breezeway ceiling	3,600 Square Feet	G	Surf.	No	<1	2105180066RK-15	West wall	<1% chrysotile[M]
										1000-Pt. Ct.: <0.1% chrysotile
								2105180066RK-16	South wall	NAD[N]
								2105180066RK-17	East wall	NAD
								2105180066RK-18	North wall	NAD
								2105180066RK-19	Northeast ceiling of Breezeway	<1% chrysotile
										1000-Pt. Ct.: <0.1% chrysotile
	Window putty	Throughout exterior side of select windows	40 Square Feet	G	Surf.	No	<1	2105180066RK-20	South wall of Rooms 13 - 15	<1% chrysotile[O]
										1000-Pt. Ct.: <0.1% chrysotile
								2105180066RK-21	South wall of Rooms 13 - 15	NAD
								2105180066RK-22	South wall of Room 16	<1% chrysotile
										1000-Pt. Ct.: <0.1% chrysotile

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[J] G = Good; D = Damaged; SD = Severely Damaged
[K] Misc. = Miscellaneous; Surf. = Surfacing; TSI = Thermal System Insulation
[L] NOTE: 1) Wood overhangs. 2) No window putty.
[M] Samples 15 and 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.
[N] NAD = No Asbestos Detected.
[O] Samples 20 and 22 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 window putty is a non-regulated material.

POLARIZED LIGHT MICROSCOPY (PLM) ANALYSIS DATA

Shuey Elementary School
8472 East Wells Street
Rosemead, California 91770

Homogeneous Material #	Material Description	Material Location	Estimated Quantity	Condition[P]	Type[Q]	Friable	Percent Damaged	Sample Number	Sample Location	Analytical Results
Restroom Building[R]										
4	Stucco	Throughout exterior walls and overhangs	1,600 Square Feet	G	Surf.	No	<1	2105180066RK-23	Southwest overhang at restroom entry	NAD[S]
								2105180066RK-24	West wall	NAD
								2105180066RK-25	South wall	NAD
								2105180066RK-26	East wall	NAD
								2105180066RK-27	North 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

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

POLARIZED LIGHT MICROSCOPY (PLM) ANALYSIS DATA

Shuey Elementary School
8472 East Wells Street
Rosemead, California 91770

Homogeneous Material #	Material Description	Material Location	Estimated Quantity	Condition[T]	Type[U]	Friable	Percent Damaged	Sample Number	Sample Location	Analytical Results
Multi-Purpose Building[V]										
5	Stucco	Throughout exterior walls and overhangs	6,000 Square Feet	G	Surf.	No	<1	2105180066RK-28	West wall	<1% chrysotile[W]
										1000-Pt. Ct.: 0.1% chrysotile
								2105180066RK-29	South wall	<1% chrysotile
										1000-Pt. Ct.: <0.1% chrysotile: NAD[X]
								2105180066RK-30	South overhang by Custodial Room	<1% chrysotile
										1000-Pt. Ct.: <0.1% chrysotile
								2105180066RK-31	East wall, center	<1% chrysotile
										1000-Pt. Ct.: 0.1% chrysotile
								2105180066RK-32	North wall	<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.

[T] G = Good; D = Damaged; SD = Severely Damaged
[U] Misc. = Miscellaneous; Surf. = Surfacing; TSI = Thermal System Insulation
[V] NOTE: 1) No window putty.
[W] Samples 28 thru 32 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.
[X] NAD = No Asbestos Detected.

POLARIZED LIGHT MICROSCOPY (PLM) ANALYSIS DATA

Shuey Elementary School
8472 East Wells Street
Rosemead, California 91770

Homogeneous Material #	Material Description	Material Location	Estimated Quantity	Condition[Y]	Type[Z]	Friable	Percent Damaged	Sample Number	Sample Location	Analytical Results
Multi-Purpose Building (continued)										
5	Stucco	Throughout exterior walls and overhangs	Same has homogeneous above					2105180066RK-33	East wall, north end	<1% chrysotile[AA] 1000-Pt. Ct.: <0.1% chrysotile
								2105180066RK-34	East overhang	<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

[Y] G = Good; D = Damaged; SD = Severely Damaged
[Z] Misc. = Miscellaneous; Surf. = Surfacing; TSI = Thermal System Insulation
[AA] Samples 33 and 34 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

Shuey Elementary School
8472 East Wells Street
Rosemead, California 91770

Homogeneous Material #	Material Description	Material Location	Estimated Quantity	Condition [BB]	Type[CC]	Friable	Percent Damaged	Sample Number	Sample Location	Analytical Results
Classroom Building (Rooms 33 thru 35)[DD]										
6	Stucco	Throughout exterior walls and overhang	3,500 Square Feet	G	Surf.	No	0	2105180066RK-35	West wall	<1% chrysotile[EE] 1000-Pt. Ct.: <0.1% chrysotile
								2105180066RK-36	North wall	NAD[FF]
								2105180066RK-37	East wall	NAD
								2105180066RK-38	South wall	NAD
								2105180066RK-39	East overhang	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.

[BB] G = Good; D = Damaged; SD = Severely Damaged
[CC] Misc. = Miscellaneous; Surf. = Surfacing; TSI = Thermal System Insulation
[DD] NOTE: 1) No window putty.
[EE] Sample 35 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.
[FF] NAD = No Asbestos Detected.

POLARIZED LIGHT MICROSCOPY (PLM) ANALYSIS DATA

Shuey Elementary School
8472 East Wells Street
Rosemead, California 91770

Homogeneous Material #	Material Description	Material Location	Estimated Quantity	Condition [GG]	Type[HH]	Friable	Percent Damaged	Sample Number	Sample Location	Analytical Results
Classroom Building (Room 36)[II]										
7	Stucco	Throughout exterior walls and overhang	2,200 Square Feet	G	Surf.	No	0	2105180066RK-40	North wall	NAD[JJ]
								2105180066RK-41	East wall	NAD
								2105180066RK-42	South wall	NAD
								2105180066RK-43	West wall	NAD
								2105180066RK-44	East overhang	NAD
Portables[KK]										
8	Stucco	South wall at Room 32[LL]	360 Square Feet	G	Surf.	No	0	2105180066RK-45	East end	Layers A & B: NAD
								2105180066RK-46	Center	Layers A & B: NAD
								2105180066RK-47	West end	Layers A & B: NAD
No suspect asbestos-containing materials were identified on the exterior walls of Portables 5, 17 thru 32 and Restroom Portable.										
Covered Walkways[MM]										
No suspect asbestos-containing materials were identified on the exterior walls of Southeast, Northeast and Northwest Covered Walkways.										

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.

[GG] G = Good; D = Damaged; SD = Severely Damaged
[HH] Misc. = Miscellaneous; Surf. = Surfacing; TSI = Thermal System Insulation
[II] NOTE: 1) No window putty.
[JJ] NAD = No Asbestos Detected.
[KK] NOTE: 1) Wood walls and overhangs of Portables 5, 17 thru 32, Restroom Portable. 2) No window putty of Portables 5, 17 thru 32, Restroom Portable.
[LL] Portable 32 south wall has stucco other walls are wood.
[MM] NOTE: 1) Wood ceilings.

POLARIZED LIGHT MICROSCOPY (PLM) ANALYSIS DATA

Shuey Elementary School
8472 East Wells Street
Rosemead, California 91770

Homogeneous Material #	Material Description	Material Location	Estimated Quantity	Condition [NN]	Type[OO]	Friable	Percent Damaged	Sample Number	Sample Location	Analytical Results
Campus										
9	Asphalt paving	Parking Lot 1	20,000 Square Feet	G	Misc.	No	<1	2105240066RK-48	North	NAD[PP]
								2105240066RK-49	Northwest	NAD
								2105240066RK-50	Center-east	NAD
								2105240066RK-51	South-center	NAD
								2105240066RK-52	Southeast	NAD
10	Asphalt paving	Parking Lot 2	9,500 Square Feet	G	Misc.	No	<1	2105240066RK-53	West	NAD
								2105240066RK-54	Center-north	NAD
								2105240066RK-55	East	NAD
11	Asphalt paving	Kindergarten Playground	3,000 Square Feet	G	Misc.	No	<1	2105240066RK-56	West	NAD
								2105240066RK-57	Center	NAD
								2105240066RK-58	Northeast	NAD
12	Asphalt paving	Main Playground	30,000 Square Feet	G	Misc.	No	<1	2105250066RK-59	North of Room 13	NAD
								2105250066RK-60	Northwest of Room 16	NAD
								2105250066RK-61	Southeast	NAD
								2105250066RK-62	South of Room 15	NAD
								2105250066RK-63	Southwest	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

[NN] G = Good; D = Damaged; SD = Severely Damaged
[OO] Misc. = Miscellaneous; Surf. = Surfacing; TSI = Thermal System Insulation
[PP] NAD = No Asbestos Detected.

POLARIZED LIGHT MICROSCOPY (PLM) ANALYSIS DATA

Shuey Elementary School
8472 East Wells Street
Rosemead, California 91770

Homogeneous Material #	Material Description	Material Location	Estimated Quantity	Condition [QQ]	Type[RR]	Friable	Percent Damaged	Sample Number	Sample Location	Analytical Results
Campus										
13	Asphalt paving	South of Parking Lot 1 and South of Portables 22 thru 27	10,000 Square Feet	G	Misc.	No	<1	2105250066RK-64	South of Portable 22	NAD[SS]
								2105250066RK-65	South of Portables 26	NAD
								2105250066RK-66	South side of parking lot 1	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.

The remainder of this page is blank.

[QQ] G = Good; D = Damaged; SD = Severely Damaged
[RR] Misc. = Miscellaneous; Surf. = Surfacing; TSI = Thermal System Insulation
[SS] NAD = No Asbestos Detected.

IV. FINDINGS

EE conducted a limited asbestos inspection of the permanent buildings, portables and covered walkways at Shuey Elementary School located at 8472 East Wells Street, Rosemead, California.

Thirteen (13) homogeneous material groups were identified during the visual property inspection. Sixty-six (66) samples of suspect asbestos-containing materials were collected and delivered to AmeriSci of Carson, CA and LA Testing of South Pasadena 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 material (ACM) was identified during this inspection. Activities involving the inspected material 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:**	Thu M. Nguyen
		AmeriSci Job #:	921051339
Fax #:		**Subject:**	PLM 3 day Results
		Client Project:	21-Z0046-0066; Admin and Rooms 1-4, Rooms 6-12, Rooms 13-26, Restroom Building,
Email:	info@execenv.com,ygaleana@execenv.com		

Date: Saturday, May 22, 2021
Time: 07:21:56
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 05/18/21
Date Examined 05/20/21

AmeriSci Job # 921051339
P.O. #

RE: 21-Z0046-0066; Admin and Rooms 1-4, Rooms 6-12, Rooms 13-26, Restroom Building, MPR, Rooms 33-35, Room 36

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
2105180066RK - 01 01	921051339-01 **Location:** Exterior, West Wall / Exterior Stucco / T-O Exterior Walls And Breezeway Ceiling	*No*	NAD (by CVES) by Thu M. Nguyen on 05/20/21
Analyst Description: Beige/Grey, Heterogeneous, Non-Fibrous, Cementitious, Stucco **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
2105180066RK - 02 01	921051339-02 **Location:** Exterior, South Wall Of Admin / Exterior Stucco	*No*	NAD (by CVES) by Thu M. Nguyen on 05/20/21
Analyst Description: Beige/Grey, Heterogeneous, Non-Fibrous, Cementitious, Stucco **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
2105180066RK - 03 01	921051339-03 **Location:** Exterior, South Wall Of Rooms 1-2 / Exterior Stucco	*No*	NAD (by CVES) by Thu M. Nguyen on 05/20/21
Analyst Description: Beige/Grey, Heterogeneous, Non-Fibrous, Cementitious, Stucco **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
2105180066RK - 04 01	921051339-04 **Location:** Exterior, East Wall / Exterior Stucco	*No*	NAD (by CVES) by Thu M. Nguyen on 05/20/21
Analyst Description: Beige/Grey, Heterogeneous, Non-Fibrous, Cementitious, Stucco **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
2105180066RK - 05 01	921051339-05 **Location:** Exterior, North Wall Of Admin / Exterior Stucco	*No*	NAD (by CVES) by Thu M. Nguyen on 05/20/21
Analyst Description: Beige/Grey, Heterogeneous, Non-Fibrous, Cementitious, Stucco **Asbestos Types:** **Other Material:** Non-fibrous 100 %			

See Reporting notes on last page

PLM Bulk Asbestos Report

21-Z0046-0066; Admin and Rooms 1-4, Rooms 6-12, Rooms 13-26, Restroom Building, MPR, Rooms 33-35, Room 36

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
2105180066RK - 06 01	921051339-06 **Location:** Exterior, West Wall Of Breezeway / Exterior Stucco	***No***	NAD (by CVES) by Thu M. Nguyen on 05/20/21
Analyst Description: Beige/Grey, Heterogeneous, Non-Fibrous, Cementitious, Stucco **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
2105180066RK - 07 01	921051339-07 **Location:** Exterior, SW Ceiling Of Breezeway / Exterior Stucco	***No***	NAD (by CVES) by Thu M. Nguyen on 05/20/21
Analyst Description: Beige/Grey, Heterogeneous, Non-Fibrous, Cementitious, Stucco **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
2105180066RK - 08 02	921051339-08 **Location:** Exterior, West Wall / Exterior Stucco / T-O Exterior Walls, Overhangs And Breezeway Ceiling	***No***	NAD (by CVES) by Thu M. Nguyen on 05/20/21
Analyst Description: Beige/Grey, Heterogeneous, Non-Fibrous, Cementitious, Stucco **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
2105180066RK - 09 02	921051339-09 **Location:** Exterior, South Wall Of Rooms 9-12 / Exterior Stucco	***No***	NAD (by CVES) by Thu M. Nguyen on 05/20/21
Analyst Description: Beige/Grey, Heterogeneous, Non-Fibrous, Cementitious, Stucco **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
2105180066RK - 10 02	921051339-10 **Location:** Exterior, East Wall Of Breezeway / Exterior Stucco	***Yes***	Trace (<1 %) (by CVES) by Thu M. Nguyen on 05/20/21
Analyst Description: Tan/Grey, Heterogeneous, Non-Fibrous, Cementitious, Stucco **Asbestos Types:** Chrysotile <1. % **Other Material:** Non-fibrous 100 %			
2105180066RK - 11 02	921051339-11 **Location:** Exterior, South Wall Of Rooms 6-8 / Exterior Stucco	***No***	NAD (by CVES) by Thu M. Nguyen on 05/20/21
Analyst Description: Beige/Grey, Heterogeneous, Fibrous, Stucco **Asbestos Types:** **Other Material:** Non-fibrous 100 %			

See Reporting notes on last page

PLM Bulk Asbestos Report

21-Z0046-0066; Admin and Rooms 1-4, Rooms 6-12, Rooms 13-26, Restroom Building, MPR, Rooms 33-35, Room 36

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
2105180066RK - 12 02	921051339-12 **Location:** Exterior, East Wall / Exterior Stucco	***No***	NAD (by CVES) by Thu M. Nguyen on 05/20/21
Analyst Description: Beige/Grey, Heterogeneous, Non-Fibrous, Cementitious, Stucco **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
2105180066RK - 13 02	921051339-13 **Location:** Exterior, North Wall of Rooms 9-12 / Exterior Stucco	***No***	NAD (by CVES) by Thu M. Nguyen on 05/20/21
Analyst Description: Beige/Grey, Heterogeneous, Non-Fibrous, Cementitious, Stucco **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
2105180066RK - 14 02	921051339-14 **Location:** Exterior, SW Ceiling Of Breezeway / Exterior Stucco	***No***	NAD (by CVES) by Thu M. Nguyen on 05/20/21
Analyst Description: Beige/Grey, Heterogeneous, Non-Fibrous, Cementitious, Stucco **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
2105180066RK - 15 03	921051339-15 **Location:** Exterior, West Wall / Exterior Stucco / T-O Exterior Walls And Breezeway Ceiling	***Yes***	Trace (<1 %) (by CVES) by Thu M. Nguyen on 05/21/21
Analyst Description: Tan/Beige/Grey, Heterogeneous, Fibrous, Cementitious, Stucco **Asbestos Types:** Chrysotile <1. % **Other Material:** Non-fibrous 100 %			
2105180066RK - 16 03	921051339-16 **Location:** Exterior, South Wall / Exterior Stucco	***No***	NAD (by CVES) by Thu M. Nguyen on 05/21/21
Analyst Description: White/Grey, Heterogeneous, Non-Fibrous, Cementitious, Stucco **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
2105180066RK - 17 03	921051339-17 **Location:** Exterior, East Wall / Exterior Stucco	***No***	NAD (by CVES) by Thu M. Nguyen on 05/21/21
Analyst Description: Beige/Grey, Heterogeneous, Non-Fibrous, Cementitious, Stucco **Asbestos Types:** **Other Material:** Non-fibrous 100 %			

See Reporting notes on last page

PLM Bulk Asbestos Report

21-Z0046-0066; Admin and Rooms 1-4, Rooms 6-12, Rooms 13-26, Restroom Building, MPR, Rooms 33-35, Room 36

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
2105180066RK - 18 03	921051339-18 **Location:** Exterior, North Wall / Exterior Stucco	***No***	NAD (by CVES) by Thu M. Nguyen on 05/21/21
Analyst Description: Beige/Grey, Heterogeneous, Non-Fibrous, Cementitious, Stucco **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
2105180066RK - 19 03	921051339-19 **Location:** Exterior, NE Ceiling Of Breezeway / Exterior Stucco	***Yes***	Trace (<1 %) (by CVES) by Thu M. Nguyen on 05/21/21
Analyst Description: Tan/Grey, Heterogeneous, Fibrous, Cementitious, Stucco **Asbestos Types:** Chrysotile <1. % **Other Material:** Non-fibrous 100 %			
2105180066RK - 20 04	921051339-20 **Location:** Exterior, South Wall Of Rooms 13-15 / Exterior Window Putty / T-O Select Exterior Windows	***Yes***	Trace (<1 %) (by CVES) by Thu M. Nguyen on 05/21/21
Analyst Description: Tan/Beige, Heterogeneous, Fibrous, Window Putty **Asbestos Types:** Chrysotile <1. % **Other Material:** Non-fibrous 100 %			
2105180066RK - 21 04	921051339-21 **Location:** Exterior, South Wall Of Rooms 13-15 / Exterior Window Putty	***No***	NAD (by CVES) by Thu M. Nguyen on 05/21/21
Analyst Description: White/Beige, Heterogeneous, Non-Fibrous, Window Putty **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
2105180066RK - 22 04	921051339-22 **Location:** Exterior, South Wall Of Room 16 / Exterior Window Putty	***Yes***	Trace (<1 %) (by CVES) by Thu M. Nguyen on 05/21/21
Analyst Description: Tan/Beige, Heterogeneous, Fibrous, Window Putty **Asbestos Types:** Chrysotile <1. % **Other Material:** Non-fibrous 100 %			
2105180066RK - 23 05	921051339-23 **Location:** Exterior, SW Overhang At RR Entry / Exterior Stucco	***No***	NAD (by CVES) by Thu M. Nguyen on 05/21/21
Analyst Description: Beige/Grey, Heterogeneous, Non-Fibrous, Cementitious, Stucco **Asbestos Types:** **Other Material:** Non-fibrous 100 %			

See Reporting notes on last page

PLM Bulk Asbestos Report

21-Z0046-0066; Admin and Rooms 1-4, Rooms 6-12, Rooms 13-26, Restroom Building, MPR, Rooms 33-35, Room 36

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
2105180066RK - 24 05	921051339-24 **Location:** Exterior, West Wall / Exterior Stucco	***No***	NAD (by CVES) by Thu M. Nguyen on 05/21/21
Analyst Description: Beige/Grey, Heterogeneous, Non-Fibrous, Cementitious, Stucco **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
2105180066RK - 25 05	921051339-25 **Location:** Exterior, South Wall / Exterior Stucco	***No***	NAD (by CVES) by Thu M. Nguyen on 05/21/21
Analyst Description: Beige/Grey, Heterogeneous, Non-Fibrous, Cementitious, Stucco **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
2105180066RK - 26 05	921051339-26 **Location:** Exterior, East Wall / Exterior Stucco	***No***	NAD (by CVES) by Thu M. Nguyen on 05/21/21
Analyst Description: Beige/Grey, Heterogeneous, Non-Fibrous, Cementitious, Stucco **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
2105180066RK - 27 05	921051339-27 **Location:** Exterior, North Wall / Exterior Stucco	***No***	NAD (by CVES) by Thu M. Nguyen on 05/21/21
Analyst Description: Beige/Grey, Heterogeneous, Non-Fibrous, Cementitious, Stucco **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
2105180066RK - 28 06	921051339-28 **Location:** Exterior, West Wall / Exterior Stucco / T-O Exterior Walls And Overhangs	***Yes***	Trace (<1 %) (by CVES) by Thu M. Nguyen on 05/21/21
Analyst Description: Beige/Grey, Heterogeneous, Fibrous, Stucco **Asbestos Types:** Chrysotile <1. % **Other Material:** Non-fibrous 100 %			
2105180066RK - 29 06	921051339-29 **Location:** Exterior, South Wall / Exterior Stucco	***Yes***	Trace (<1 %) (by CVES) by Thu M. Nguyen on 05/21/21
Analyst Description: Beige/Grey, Heterogeneous, Fibrous, Cementitious, Stucco **Asbestos Types:** Chrysotile <1. % **Other Material:** Non-fibrous 100 %			

See Reporting notes on last page

PLM Bulk Asbestos Report

21-Z0046-0066; Admin and Rooms 1-4, Rooms 6-12, Rooms 13-26, Restroom Building, MPR, Rooms 33-35, Room 36

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
2105180066RK - 30 06	921051339-30 **Location:** Exterior, South Overhang By Custodial Room / Exterior Stucco	***Yes***	Trace (<1 %) (by CVES) by Thu M. Nguyen on 05/21/21
Analyst Description: Beige/Grey, Heterogeneous, Fibrous, Stucco **Asbestos Types:** Chrysotile <1. % **Other Material:** Non-fibrous 100 %			
2105180066RK - 31 06	921051339-31 **Location:** Exterior, East Wall - Center / Exterior Stucco	***Yes***	Trace (<1 %) (by CVES) by Thu M. Nguyen on 05/21/21
Analyst Description: Beige/Grey, Heterogeneous, Fibrous, Stucco **Asbestos Types:** Chrysotile <1. % **Other Material:** Non-fibrous 100 %			
2105180066RK - 32 06	921051339-32 **Location:** Exterior, North Wall / Exterior Stucco	***Yes***	Trace (<1 %) (by CVES) by Thu M. Nguyen on 05/21/21
Analyst Description: Beige/Grey, Heterogeneous, Fibrous, Cementitious, Stucco **Asbestos Types:** Chrysotile <1. % **Other Material:** Non-fibrous 100 %			
2105180066RK - 33 06	921051339-33 **Location:** Exterior, East Wall - North End / Exterior Stucco	***Yes***	Trace (<1 %) (by CVES) by Thu M. Nguyen on 05/21/21
Analyst Description: Beige/Grey, Heterogeneous, Fibrous, Cementitious, Stucco **Asbestos Types:** Chrysotile <1. % **Other Material:** Non-fibrous 100 %			
2105180066RK - 34 06	921051339-34 **Location:** Exterior, East Overhang / Exterior Stucco	***Yes***	Trace (<1 %) (by CVES) by Thu M. Nguyen on 05/21/21
Analyst Description: Beige/Grey, Heterogeneous, Fibrous, Cementitious, Stucco **Asbestos Types:** Chrysotile <1. % **Other Material:** Non-fibrous 100 %			
2105180066RK - 35 07	921051339-35 **Location:** Exterior, West Wall / Exterior Stucco / T-O Exterior Walls And Overhang	***Yes***	Trace (<1 %) (by CVES) by Thu M. Nguyen on 05/21/21
Analyst Description: Beige/Grey, Heterogeneous, Fibrous, Cementitious, Stucco **Asbestos Types:** Chrysotile <1. % **Other Material:** Non-fibrous 100 %			

See Reporting notes on last page

PLM Bulk Asbestos Report

21-Z0046-0066; Admin and Rooms 1-4, Rooms 6-12, Rooms 13-26, Restroom Building, MPR, Rooms 33-35, Room 36

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
2105180066RK - 36 07	921051339-36 **Location:** Exterior, North Wall / Exterior Stucco	***No***	NAD (by CVES) by Thu M. Nguyen on 05/21/21
Analyst Description: White/Grey, Heterogeneous, Non-Fibrous, Cementitious, Stucco **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
2105180066RK - 37 07	921051339-37 **Location:** Exterior, East Wall / Exterior Stucco	***No***	NAD (by CVES) by Thu M. Nguyen on 05/21/21
Analyst Description: White/Grey, Heterogeneous, Non-Fibrous, Cementitious, Stucco **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
2105180066RK - 38 07	921051339-38 **Location:** Exterior, South Wall / Exterior Stucco	***No***	NAD (by CVES) by Thu M. Nguyen on 05/21/21
Analyst Description: White/Grey, Heterogeneous, Non-Fibrous, Cementitious, Stucco **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
2105180066RK - 39 07	921051339-39 **Location:** Exterior, East Overhang / Exterior Stucco	***No***	NAD (by CVES) by Thu M. Nguyen on 05/21/21
Analyst Description: White/Grey, Heterogeneous, Non-Fibrous, Cementitious, Stucco **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
2105180066RK - 40 08	921051339-40 **Location:** Exterior, North Wall / Exterior Stucco / T-O Exterior Walls And Overhang	***No***	NAD (by CVES) by Thu M. Nguyen on 05/21/21
Analyst Description: White/Grey, Heterogeneous, Non-Fibrous, Cementitious, Stucco **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
2105180066RK - 41 08	921051339-41 **Location:** Exterior, East Wall / Exterior Stucco	***No***	NAD (by CVES) by Thu M. Nguyen on 05/21/21
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

21-Z0046-0066; Admin and Rooms 1-4, Rooms 6-12, Rooms 13-26, Restroom Building, MPR, Rooms 33-35, Room 36

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
2105180066RK - 42 08	921051339-42	***No***	NAD (by CVES) by Thu M. Nguyen on 05/21/21
Location: Exterior, South Wall / Exterior Stucco			
Analyst Description: White/Grey, Heterogeneous, Non-Fibrous, Cementitious, Stucco **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
2105180066RK - 43 08	921051339-43	***No***	NAD (by CVES) by Thu M. Nguyen on 05/21/21
Location: Exterior, West Wall / Exterior Stucco			
Analyst Description: White/Grey, Heterogeneous, Non-Fibrous, Cementitious, Stucco **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
2105180066RK - 44 08	921051339-44	***No***	NAD (by CVES) by Thu M. Nguyen on 05/21/21
Location: Exterior, East Overhang / Exterior Stucco			
Analyst Description: White/Grey, Heterogeneous, Non-Fibrous, Cementitious, Stucco **Asbestos Types:** **Other Material:** Non-fibrous 100 %			

Reporting Notes: Thu M. Nguyen 5.20.21

Analyzed By: Thu M. Nguyen ; Date Analyzed: 5/20/2021

*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:_____

9210513339

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 (3 to 5 days)	Project #:	Sampled by:	Site Zip Code:	Sample Date:	
		21-Z0046-0066	Rhys Kuzmic	91770	05/18/2021	Page 1 of 7

Building Name: Admin and Rooms 1-4

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: 21Z0046-0066RK

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 and breezeway ceiling	1	6,000SF	<1
-02	Exterior, south wall of Admin	↓		↓	↓	↓
-03	Exterior, south wall of Rooms 1-2					
-04	Exterior, east wall					
-05	Exterior, North wall of Admin					
-06	Exterior, west wall of breezeway					
-07	Exterior, SW ceiling of breezeway					

Notes:

Released By, Date, & Time:	Received By, Date, & Time::	Released By, Date, & Time:
Rhys Kuz 05/18/2021 2:00PM	RJ 5/18/21 1400	

9210513 39

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:	
		21-Z0046-0066	Rhys Kuzmic	91770	05/18/2021	Page 2 of 7

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: Rooms 6-12

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: 210516006GRK

Sample No.:	Sample Location – Include Room information where appropriate	Material Description	Homogeneous Location	No.	Quantity	Percent Damaged
-08	Exterior, west wall	Exterior stucco	T-O exterior walls, overhangs and breezeway ceiling	2	5,000 SF	<1
-09	Exterior, south wall of Rooms 9-12	↓		↓	↓	↓
-10	Exterior, east wall of breezeway					
-11	Exterior, south wall of Rooms 6-8					
-12	Exterior, east wall					
-13	Exterior, north wall of Rooms 9-12					
-14	Exterior, SW ceiling of breezeway					

Notes:

Released By, Date, & Time:	Received By, Date, & Time::	Released By, Date, & Time:
Rhys Kuzmic 05/18/2021 2:00 PM	RJ 5/18/21 1400	

9210513 39

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:	Page 3 of 7
		21-Z0046-0066	Rhys Kuzmic	91770	05/18/2021	

Building Name: Rooms 13-26

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: 21051800066RK

Sample No.:	Sample Location – Include Room information where appropriate	Material Description	Homogeneous Location	No.	Quantity	Percent Damaged
-15	Exterior, West Wall	Exterior stucco	T-O exterior walls and breezeway ceilings	3	3,600 SF	<1
-16	Exterior, South Wall	↓		↓	↓	↓
-17	Exterior, East Wall					
-18	Exterior, North Wall					
-19	Exterior, NE ceilings of breezeway					
-20	Exterior, South Wall at Rooms 13-15	Exterior window putty	T-O select exterior windows	4	40 SF	<1
-21	Exterior, South wall of Rooms 13-15	↓		↓	↓	↓
-22	Exterior, South wall of Room 16					

Notes:

Released By, Date, & Time:	Received By, Date, & Time:	Released By, Date, & Time:
Rhys Kuz 05/18/2021 2:00 PM	Roy 5/18/21 1400	

9210513 39

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:	
		21-Z0046-0066	Rhys Kuzmic	91770	05/18/2021	Page 4 of 7

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: Restroom Building

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: 210518 0066 RK

Sample No.:	Sample Location – Include Room information where appropriate	Material Description	Homogeneous Location	No.	Quantity	Percent Damaged
-23	Exterior, SW overhang at PR entry	Exterior stucco	TO exterior walls and overhangs	5	1,600 SF	<1
-24	Exterior, West Wall	↓		↓	↓	↓
-25	Exterior, South Wall					
-26	Exterior, east Wall					
-27	Exterior, north Wall					

Notes:

Released By, Date, & Time:	Received By, Date, & Time::	Released By, Date, & Time:
Rhys Kuz 05/18/2021 2:00PM	Ruj 5/18/21 1400	

9210518'39

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:	Page 5 of 7
		21-Z0046-0066	Rhys Kuzmic	91770	05/18/2021	

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: MPR

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: 210518Z0066 RK

Sample No.:	Sample Location – Include Room information where appropriate	Material Description	Homogeneous Location	No.	Quantity	Percent Damaged
-28	Exterior, West Wall	Exterior stucco	Two exterior walls and overhangs	6	6,000SF	<1
-29	Exterior, south Wall	↓		↓	↓	↓
-30	Exterior, south overhang by Custodial room					
-31	Exterior, east Wall - center					
-32	Exterior, north Wall					
-33	Exterior, east Wall - north end					
-34	Exterior, east overhang					

Notes:

Released By, Date, & Time:	Received By, Date, & Time:	Released By, Date, & Time:
RK 05/18/2021 2:00PM	RJ 5/18/21 1400	

9210513339

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 (3 to 5 days)	Project #:	Sampled by:	Site Zip Code:	Sample Date:	
		21-Z0046-0066	Rhys Kuzmic	91770	05/18/2021	Page 6 of 7

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: Rooms 33-35

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: 210518006GRK

Sample No.:	Sample Location – Include Room information where appropriate	Material Description	Homogeneous Location	No.	Quantity	Percent Damaged
-35	Exterior; West Wall	Exterior stucco	T-O exterior walls and overhang	7	3,500 SF	0
-36	Exterior; north Wall	↓		↓	↓	↓
-37	Exterior; east Wall					
-38	Exterior; south Wall					
-39	Exterior; east overhang					

Notes:

Released By, Date, & Time:	Received By, Date, & Time::	Released By, Date, & Time:
[signature] 05/18/2021 2:00PM	RJ 5/19/21 1400	

9210513 39

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:	
		21-Z0046-0066	Rhys Kuzmic	91770	05/18/2021	Page 7 of 7

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: Room 36

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: 210518006GRK

Sample No.:	Sample Location – Include Room information where appropriate	Material Description	Homogeneous Location	No.	Quantity	Percent Damaged
-40	Extenor, north Wall	Extenor stucco	T-O extenor walls and overhangs	8	2,200SF	0
-41	Extenor, east Wall	↓	↓	↓	↓	↓
-42	Extenor, south Wall					
-43	Extenor, west Wall					
-44	Extenor, east overhang					

Notes:

Released By, Date, & Time:	Received By, Date, & Time::	Released By, Date, & Time:
Rhys Kuzmic 05/18/2021 2:00PM	RJ 5/18/21 1400	

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
Fax #:
Email: info@execenv.com,ygaleana@execenv.com

From: Rosa E. Pena
AmeriSci Job #: 921051502
Subject: PLM 1000 point count 3 day Result
Client Project: 21-Z0046-0066; Admin and Rooms 1-4, Rooms 6-12, Rooms 13-26, Restroom Building,

Date: Thursday, June 24, 2021
Time: 17:42:49
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 05/25/21
Date Examined 05/28/21

AmeriSci Job # 921051502
P.O. #
Page 1 **of** 3

RE: 21-Z0046-0066; Admin and Rooms 1-4, Rooms 6-12, Rooms 13-26, Restroom Building, MPR, Rooms 33-35, Room 36
(Report Amended 6/24/2021)

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
2105180066RK - 15 03	921051502-01 **Location:** Exterior, West Wall / Exterior Stucco / T-O Exterior Walls And Breezeway Ceiling (Stop At First Positive)	*Yes*	Trace (<0.1 % pc) [1] (by 1000 pt ct) by Rosa E. Pena on 05/28/21
Analyst Description: Tan/Beige/Grey, Heterogeneous, Fibrous, Cementitious, Stucco **Asbestos Types:** Chrysotile <0.1 % pc **Other Material:** Non-Asbestos/Inert 41.5 % **Comment:** Heat Sensitive (organic): 20.3%; Acid Soluble (inorganic): 38.2%; Inert (Non-asbestos): 41.5%			
2105180066RK - 19 03	921051502-02 **Location:** Exterior, NE Ceiling Of Breezeway / Exterior Stucco (Stop At First Positive)	*Yes*	Trace (<0.1 % pc) [1] (by 1000 pt ct) by Rosa E. Pena on 05/28/21
Analyst Description: Tan/Grey, Heterogeneous, Fibrous, Cementitious, Stucco **Asbestos Types:** Chrysotile <0.1 % pc **Other Material:** Non-Asbestos/Inert 67.3 % **Comment:** Heat Sensitive (organic): 15.9%; Acid Soluble (inorganic): 16.8%; Inert (Non-asbestos): 67.3%			
2105180066RK - 20 04	921051502-03 **Location:** Exterior, South Wall Of Rooms 13-15 / Exterior Window Putty / T-O Select Exterior Windows (Stop At First Positive)	*Yes*	Trace (<0.1 % pc) [1] (by 1000 pt ct) by Rosa E. Pena on 05/28/21
Analyst Description: Tan/Beige, Heterogeneous, Fibrous, Window Putty **Asbestos Types:** Chrysotile <0.1 % pc **Other Material:** Non-Asbestos/Inert 9.3 % **Comment:** Heat Sensitive (organic): 12.4%; Acid Soluble (inorganic): 78.3%; Inert (Non-asbestos): 9.3%			
2105180066RK - 22 04	921051502-04 **Location:** Exterior, South Wall Of Room 16 / Exterior Window Putty (Stop At First Positive)	*Yes*	Trace (<0.1 % pc) [1] (by 1000 pt ct) by Rosa E. Pena on 05/28/21
Analyst Description: Tan/Beige, Heterogeneous, Fibrous, Window Putty **Asbestos Types:** Chrysotile <0.1 % pc **Other Material:** Non-Asbestos/Inert 10.3 % **Comment:** Heat Sensitive (organic): 10.9%; Acid Soluble (inorganic): 78.8%; Inert (Non-asbestos): 10.3%			

See Reporting notes on last page

PLM Bulk Asbestos Report

21-Z0046-0066; Admin and Rooms 1-4, Rooms 6-12, Rooms 13-26, Restroom Building, MPR, Rooms 33-35, Room 36
(Report Amended 6/24/2021)

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
2105180066RK - 28 06	921051502-05	***Yes***	Trace (<0.1 % pc) [1] (by 1000 pt ct) by Thu M. Nguyen on 06/24/21

Location: Exterior, West Wall / Exterior Stucco / T-O Exterior Walls And Overhangs (Stop At First Positive)

Analyst Description: Beige/Grey, Heterogeneous, Fibrous, Stucco
Asbestos Types: Chrysotile <0.1 % pc
Other Material: Non-Asbestos/Inert 68 %
Comment: Heat Sensitive (organic): 4.4%; Acid Soluble (inorganic): 27.6%; Inert (Non-asbestos): 68.0%

2105180066RK - 29 06	921051502-06	***No***	NAD [1] (by 1000 pt ct) by Rosa E. Pena on 05/28/21

Location: Exterior, South Wall / Exterior Stucco (Stop At First Positive)

Analyst Description: Beige/Grey, Heterogeneous, Fibrous, Cementitious, Stucco
Asbestos Types:
Other Material: Non-Asbestos/Inert 63.6 %
Comment: Heat Sensitive (organic): 9.1%; Acid Soluble (inorganic): 27.3%; Inert (Non-asbestos): 63.6%

2105180066RK - 30 06	921051502-07	***Yes***	Trace (<0.1 % pc) [1] (by 1000 pt ct) by Rosa E. Pena on 05/28/21

Location: Exterior, South Overhang By Custodial Room / Exterior Stucco (Stop At First Positive)

Analyst Description: Beige/Grey, Heterogeneous, Fibrous, Stucco
Asbestos Types: Chrysotile <0.1 % pc
Other Material: Non-Asbestos/Inert 67.4 %
Comment: Heat Sensitive (organic): 9.5%; Acid Soluble (inorganic): 23.1%; Inert (Non-asbestos): 67.4%

2105180066RK - 31 06	921051502-08	***Yes***	Trace (<0.1 % pc) [1] (by 1000 pt ct) by Thu M. Nguyen on 06/24/21

Location: Exterior, East Wall - Center / Exterior Stucco (Stop At First Positive)

Analyst Description: Beige/Grey, Heterogeneous, Fibrous, Stucco
Asbestos Types: Chrysotile <0.1 % pc
Other Material: Non-Asbestos/Inert 66.4 %
Comment: Heat Sensitive (organic): 2.9%; Acid Soluble (inorganic): 30.6%; Inert (Non-asbestos): 66.4%

2105180066RK - 32 06	921051502-09	***Yes***	Trace (<0.1 % pc) [1] (by 1000 pt ct) by Rosa E. Pena on 05/28/21

Location: Exterior, North Wall / Exterior Stucco (Stop At First Positive)

Analyst Description: Beige/Grey, Heterogeneous, Fibrous, Cementitious, Stucco
Asbestos Types: Chrysotile <0.1 % pc
Other Material: Non-Asbestos/Inert 65.8 %
Comment: Heat Sensitive (organic): 6.7%; Acid Soluble (inorganic): 27.5%; Inert (Non-asbestos): 65.8%

See Reporting notes on last page

PLM Bulk Asbestos Report

21-Z0046-0066; Admin and Rooms 1-4, Rooms 6-12, Rooms 13-26, Restroom Building, MPR, Rooms 33-35, Room 36
(Report Amended 6/24/2021)

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
2105180066RK - 33	921051502-10	*Yes*	Trace (<0.1 % pc) [1]
06	**Location:** Exterior, East Wall - North End / Exterior Stucco (Stop At First Positive)		(by 1000 pt ct) by Rosa E. Pena on 05/28/21
Analyst Description: Beige/Grey, Heterogeneous, Fibrous, Cementitious, Stucco			
Asbestos Types: Chrysotile <0.1 % pc			
Other Material: Non-Asbestos/Inert 69.2 %			
Comment: Heat Sensitive (organic): 6.8%; Acid Soluble (inorganic): 24.0%; Inert (Non-asbestos): 69.2%			
2105180066RK - 34	921051502-11	*Yes*	Trace (<0.1 % pc) [1]
06	**Location:** Exterior, East Overhang / Exterior Stucco (Stop At First Positive)		(by 1000 pt ct) by Rosa E. Pena on 05/28/21
Analyst Description: Beige/Grey, Heterogeneous, Fibrous, Cementitious, Stucco			
Asbestos Types: Chrysotile <0.1 % pc			
Other Material: Non-Asbestos/Inert 70.4 %			
Comment: Heat Sensitive (organic): 7.0%; Acid Soluble (inorganic): 22.6%; Inert (Non-asbestos): 70.4%			
2105180066RK - 35	921051502-12	*Yes*	Trace (<0.1 % pc) [1]
07	**Location:** Exterior, West Wall / Exterior Stucco / T-O Exterior Walls And Overhang		(by 1000 pt ct) by Rosa E. Pena on 05/28/21
Analyst Description: Beige/Grey, Heterogeneous, Fibrous, Cementitious, Stucco			
Asbestos Types: Chrysotile <0.1 % pc			
Other Material: Non-Asbestos/Inert 63.2 %			
Comment: Heat Sensitive (organic): 4.1%; Acid Soluble (inorganic): 32.7%; Inert (Non-asbestos): 63.2%			

Reporting Notes:

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

Analyzed By: Rosa E. Pena for Rosa ; Date Analyzed: 5/28/2021 6/24/21

*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:**	Madeline Cumad
		AmeriSci Job #:	921061723
Fax #:		**Subject:**	PLM 1000 point count 5 day Result
		Client Project:	21-Z0046-0066; Admin and Rooms 1-4, Rooms 6-12, Rooms 13-26, Restroom Building,
Email:	info@execenv.com,ygaleana@execenv.com		

Date: Wednesday, June 23, 2021
Time: 06:34:24
Comments:

Number of Pages: 8 (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 06/17/21
Date Examined 06/23/21

AmeriSci Job # 921061723
P.O. #
Page 1 **of** 1

RE: 21-Z0046-0066; Admin and Rooms 1-4, Rooms 6-12, Rooms 13-26, Restroom Building, MPR, Rooms 33-35, Room 36

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
2105180066RK - 10	921061723-01	*Yes*	Trace (<0.1 % pc) [1] (by 1000 pt ct) by Madeline Cumad on 06/23/21

Location: Exterior, East Wall Of Breezeway / Exterior Stucco

Analyst Description: Tan/Grey, Heterogeneous, Non-Fibrous, Cementitious, Stucco
Asbestos Types: Chrysotile <0.1 % pc
Other Material: Non-Asbestos/Inert 48.6 %
Comment: Heat Sensitive (organic): 9.1%; Acid Soluble (inorganic): 42.2%; Inert (Non-asbestos): 48.6%

Reporting Notes:

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

Analyzed By: Madeline Cumad _____; Date Analyzed: 6/23/2021 6·23·21

*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: _____

LA Testing

520 Mission Street South Pasadena, CA 91030
Tel/Fax: (323) 254-9960 / (323) 254-9982
http://www.LATesting.com / pasadenalab@latesting.com

LA Testing Order: 322109897
Customer ID: 32EXEC52
Customer PO:
Project ID:

Attention: Yesenia Galeana
Executive Environmental Services Corp.
310 East Foothill Blvd.
Suite 200
Arcadia, CA 91006
Project: 21-Z0046-0066 / Sampler: Rhys Kuzmic

Phone: (626) 441-7050
Fax: (626) 441-0016
Received Date: 05/25/2021 3:15 PM
Analysis Date: 05/27/2021 - 05/28/2021
Collected Date: 05/24/2021

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

		Non-Asbestos		Asbestos
Sample	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
2105240066RK-45-A *322109897-0001*	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2105240066RK-45-B *322109897-0001A*	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2105240066RK-46-A *322109897-0002*	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2105240066RK-46-B *322109897-0002A*	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2105240066RK-47-A *322109897-0003*	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2105240066RK-47-B *322109897-0003A*	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2105240066RK-48 *322109897-0004*	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2105240066RK-49 *322109897-0005*	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2105240066RK-50 *322109897-0006*	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2105240066RK-51 *322109897-0007*	Gray/Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2105240066RK-52 *322109897-0008*	Gray/Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2105240066RK-53 *322109897-0009*	Gray/Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2105240066RK-54 *322109897-0010*	Gray/Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2105240066RK-55 *322109897-0011*	Gray/Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2105240066RK-56 *322109897-0012*	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2105240066RK-57 *322109897-0013*	Gray/Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Initial report from: 05/28/2021 09:53:53

LA Testing

520 Mission Street South Pasadena, CA 91030

Tel/Fax: (323) 254-9960 / (323) 254-9982

http://www.LATesting.com / pasadenalab@latesting.com

LA Testing Order: 322109897
Customer ID: 32EXEC52
Customer PO:
Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

		Non-Asbestos		Asbestos
Sample	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
2105240066RK-58 *322109897-0014*	Gray/Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2105240066RK-59 *322109897-0015*	Gray/Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2105240066RK-60 *322109897-0016*	Gray/Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2105240066RK-61 *322109897-0017*	Gray/Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2105240066RK-62 *322109897-0018*	Gray/Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2105240066RK-63 *322109897-0019*	Gray/Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2105240066RK-64 *322109897-0020*	Gray/Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2105240066RK-65 *322109897-0021*	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
2105240066RK-66 *322109897-0022*	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Analyst(s)

Humberto Espinoza Bajo (9)
Joel Paruli (16)

Jerry Drapala Ph.D, Laboratory Manager
or Other Approved Signatory

Initial report from: 05/28/2021 09:53:53

#322109897

OrderID: 322109897

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:	
21-Z0046-0066	Rhys Kuzmic	91770	05/24/2021	Page 8 of 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

Building Name: Portable Room 32

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: 210524 0066 RK

Sample No.:	Sample Location – Include Room information where appropriate	Material Description	Homogeneous Location	No.	Quantity	Percent Damaged
-45	Room 32, south wall - east end	Exterior stucco	Room 32 south wall (other walls are wood)	9	360 SF	0
-46	Room 32, south wall - center	↓		↓	↓	↓
-47	Room 32, south wall - west end					

Notes:

Released By, Date, & Time:	Received By, Date, & Time::	Released By, Date, & Time:
RhK 05/25/2021 3:15PM	RPCWD 5/25/21 3:15pm	

Rev. 1/19

Form: AL-006PLM

#322109897

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:	
21-Z0046-0066	Rhys Kuzmic	91770	05/24/2021	Page 9 of 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

Building Name: Campus

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: 210524006GRK

Sample No.:	Sample Location – Include Room information where appropriate	Material Description	Homogeneous Location	No.	Quantity	Percent Damaged
-48	Parking Lot 1, north	Asphalt paving	Parking Lot 1	10	20,000SF	<1
-49	Parking Lot 1, NW	↓		↓	↓	↓
-50	Parking Lot 1, center-east					
-51	Parking Lot 1, south-center					
-52	Parking Lot 1, SE					

Notes:

Released By, Date, & Time:	Received By, Date, & Time::	Released By, Date, & Time:
RK 05/25/2021 3:15PM	RP (WI) 5/25/21 3:15pm	

#322109897

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:	
21-Z0046-0066	Rhys Kuzmic	91770	05/24/2021	Page 10 of 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

Building Name: Simons

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: 210524Z0066RK

Sample No.:	Sample Location – Include Room information where appropriate	Material Description	Homogeneous Location	No.	Quantity	Percent Damaged
-53	Parking Lot 2, west	Asphalt paving	Parking Lot 2	11	9,500SF	<1
-54	Parking Lot 2, center-north	↓		↓	↓	↓
-55	Parking Lot 2, east	↓		↓	↓	↓
-56	Kindergarten Playground, west	Asphalt paving	Kindergarten Playground	12	3,000SF	<1
-57	Kindergarten Playground, center	↓		↓	↓	↓
-58	Kindergarten Playground, NE	↓		↓	↓	↓

Notes:

Released By, Date, & Time:	Received By, Date, & Time::	Released By, Date, & Time:
Rhys Kuzmic 05/25/2021 3:15PM	RP 5/25/21 3:15pm	

#322109897

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:	
21-Z0046-0066	Rhys Kuzmic	91770	05/25/2021	Page 11 of 12

The receiving Laboratory is required to complete the following:

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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:

Prefix: 210525Z0066RK

Sample No.:	Sample Location – Include Room information where appropriate	Material Description	Homogeneous Location	No.	Quantity	Percent Damaged
-59	Main Playground, north of Room 13	Asphalt paving	Main Playground	13	30,000 SF	< 1
-60	Main Playground, NW of Room 16	↓		↓	↓	↓
-61	Main Playground, SE					
-62	Main Playground, south of Room 15					
-63	Main Playground, SW					

Notes:

Released By, Date, & Time:	Received By, Date, & Time:	Released By, Date, & Time:
Rhys K 05/25/2021 3:15PM	RP 5/25/21 3:15pm	

#322109897

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:	
21-Z0046-0066	Rhys Kuzmic	91770	05/25/2021	Page 12 of 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

Building Name: Campus

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: 210525Q066RK

Sample No.:	Sample Location – Include Room information where appropriate	Material Description	Homogeneous Location	No.	Quantity	Percent Damaged
-64	South of Room 22	Asphalt paving	South side of Parking Lot 1 and south of Rooms 22-27	14	10,000 SF	<1
-65	South of Room 26	↓	↓	↓	↓	↓
-66	South side of Parking Lot 1	↓	↓	↓	↓	↓

Notes:

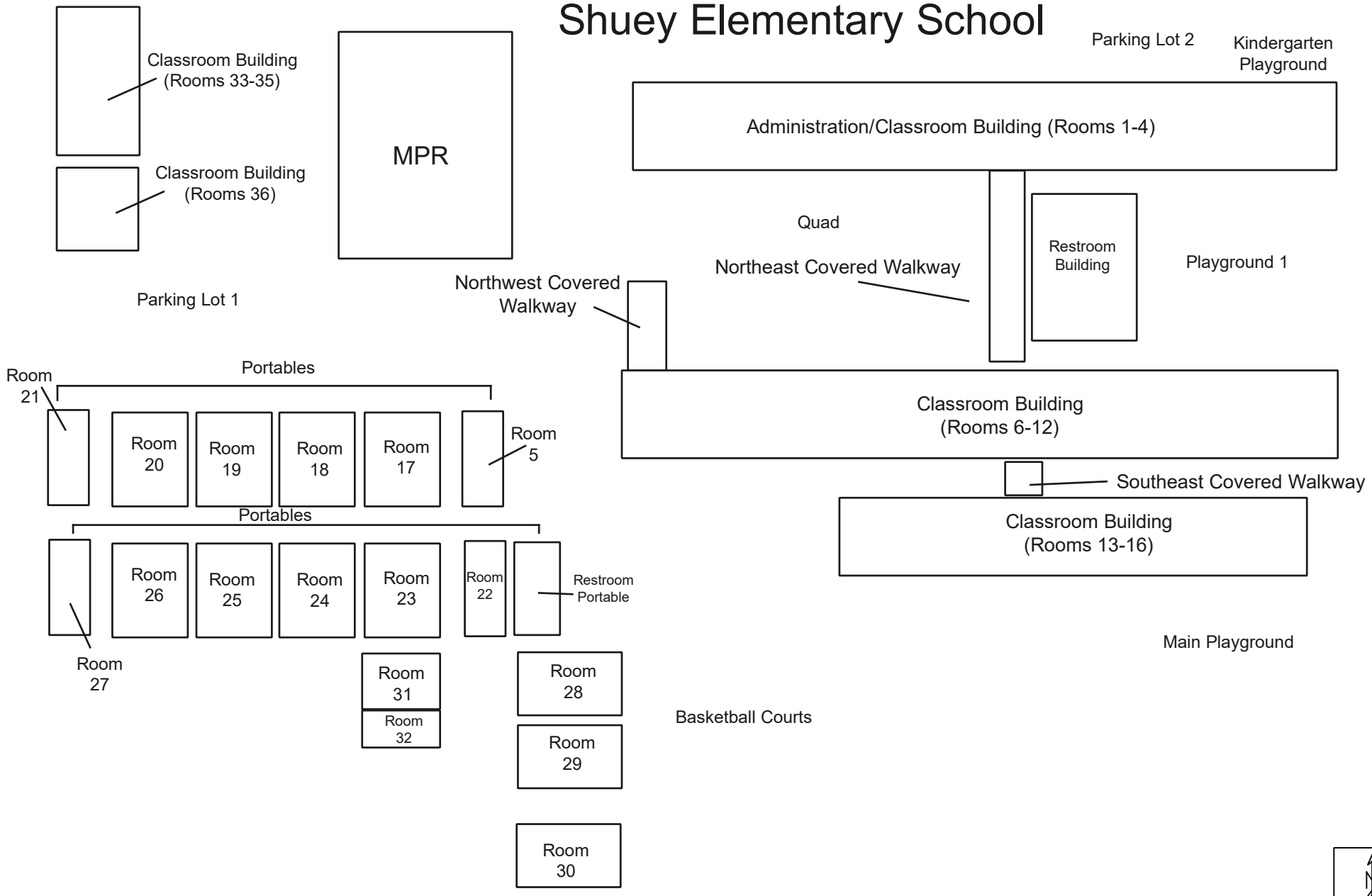
Released By, Date, & Time:	Received By, Date, & Time:	Released By, Date, & Time:
RMK 05/25/2021 3:15PM	RP 5/25/21 3:15pm	

Rev. 1/19

Form: AL-006PLM

APPENDIX B – SAMPLE LOCATIONS DRAWINGS

Shuey Elementary School

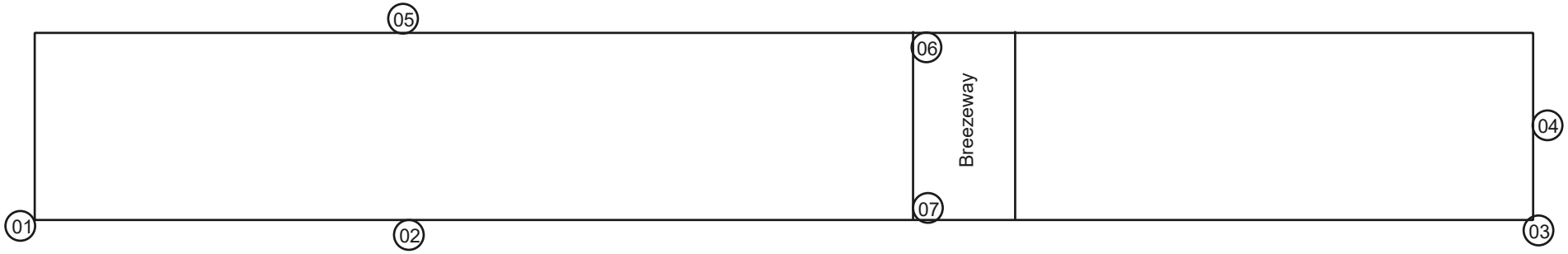


Client: Rosemead School District	**Project #:** 21-Z0046-0066	**Info:** Site Map

EXECUTIVE ENVIRONMENTAL
HEALTH & SAFETY SIMPLIFIED

Site: Shuey Elementary School-Painting Project
Adress: 8472 East Wells Street
Rosemead, California 91770

Administration/Classroom Building
(Rooms 1-4)

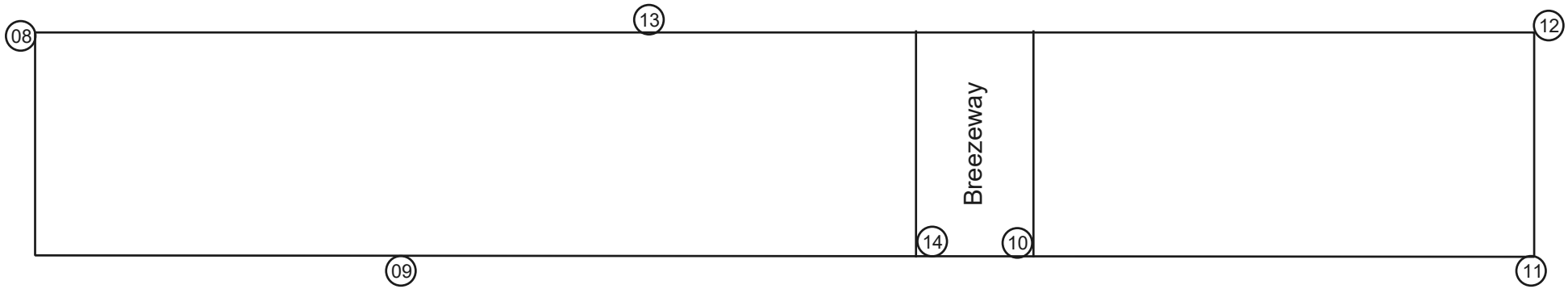


◯ - PLM Sample Location

N

Client: Rosemead School District	**Project #:** 21-Z0046-0066	**Info:** PLM Sample Location
EXECUTIVE ENVIRONMENTAL **HEALTH & SAFETY SIMPLIFIED**		**Site:** Shuey Elementary School-Painting Project **Adress:** 8472 East Wells Street Rosemead, California 91770

Classroom Building
(Rooms 6-12)

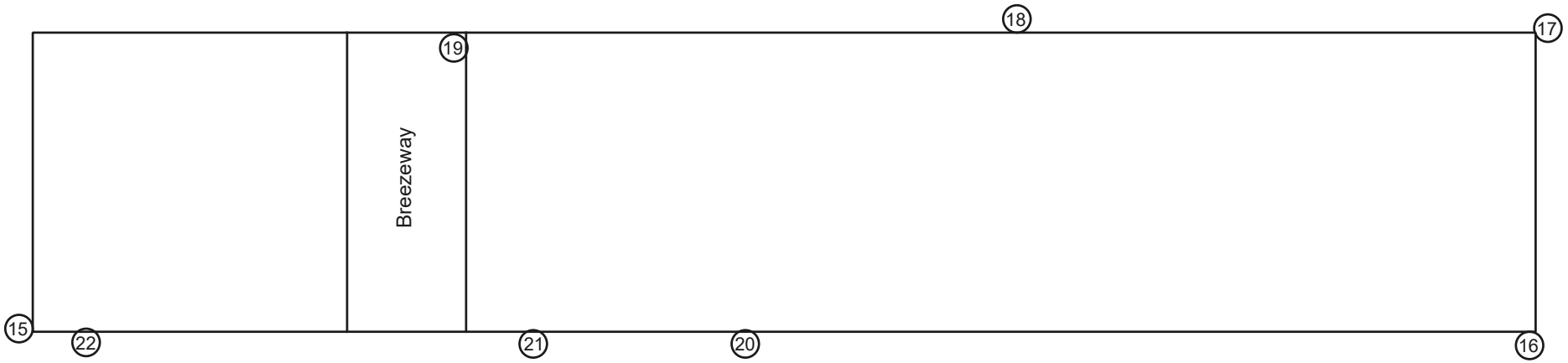


◯ - PLM Sample Location

N

Client: Rosemead School District	**Project #:** 21-Z0046-0066	**Info:** PLM Sample Location
EXECUTIVE ENVIRONMENTAL **HEALTH & SAFETY SIMPLIFIED**		**Site:** Shuey Elementary School-Painting Project **Adress:** 8472 East Wells Street Rosemead, California 91770

Classroom Building
(Rooms 13-16)

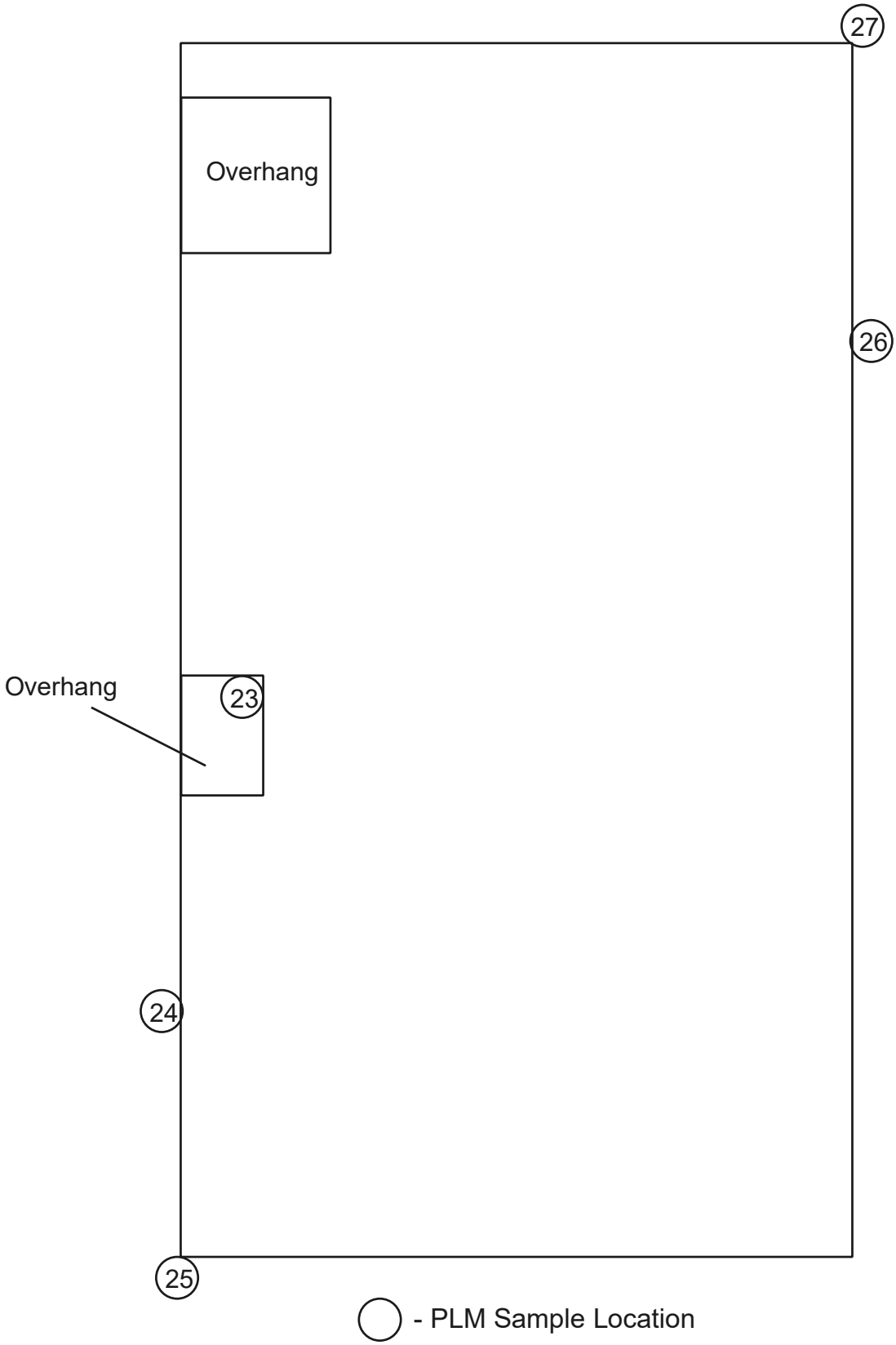


◯ - PLM Sample Location

N

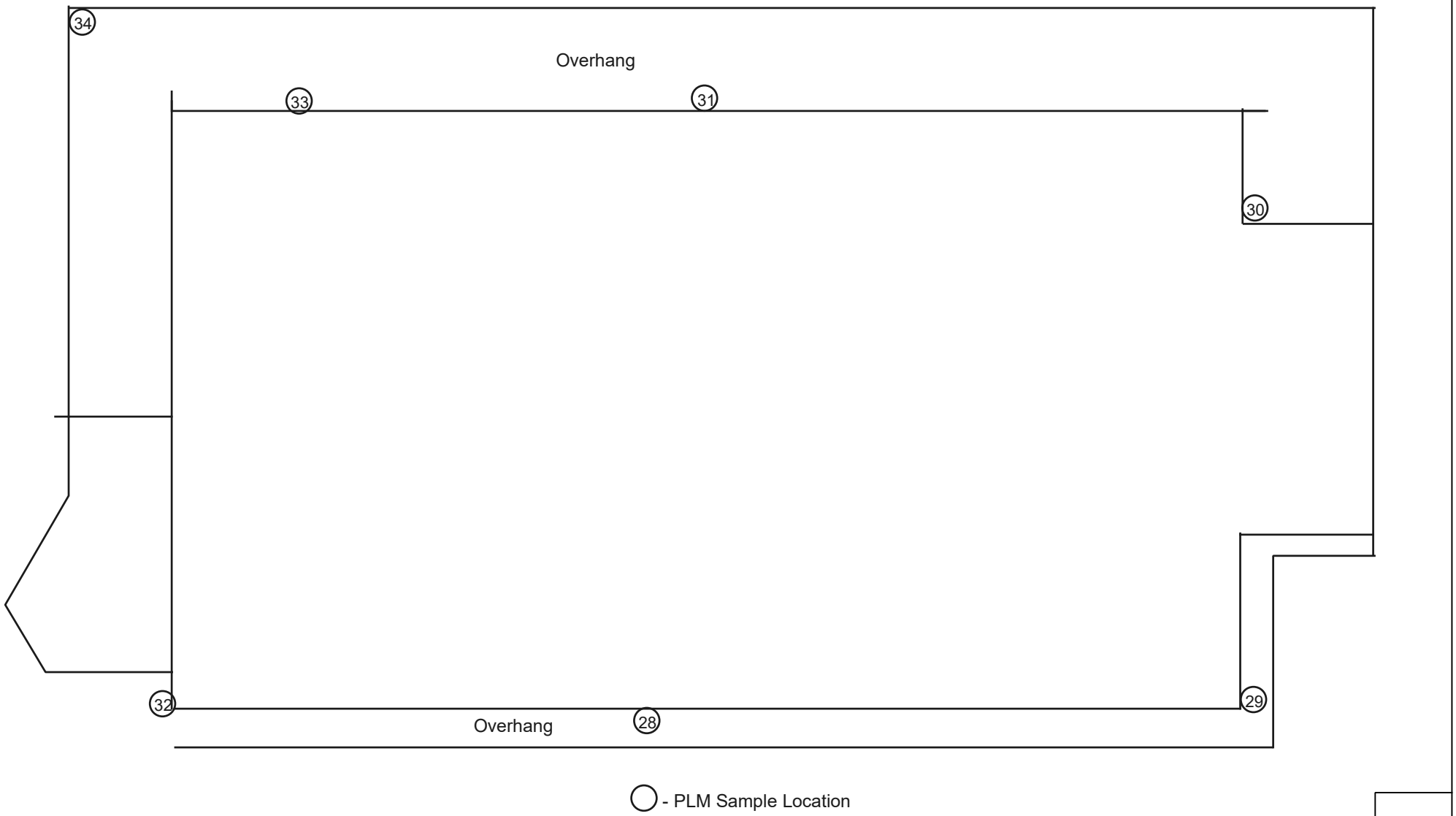
Client: Rosemead School District	**Project #:** 21-Z0046-0066	**Info:** PLM Sample Location
EXECUTIVE ENVIRONMENTAL **HEALTH & SAFETY SIMPLIFIED**		**Site:** Shuey Elementary School-Painting Project **Adress:** 8472 East Wells Street Rosemead, California 91770

Restroom Building



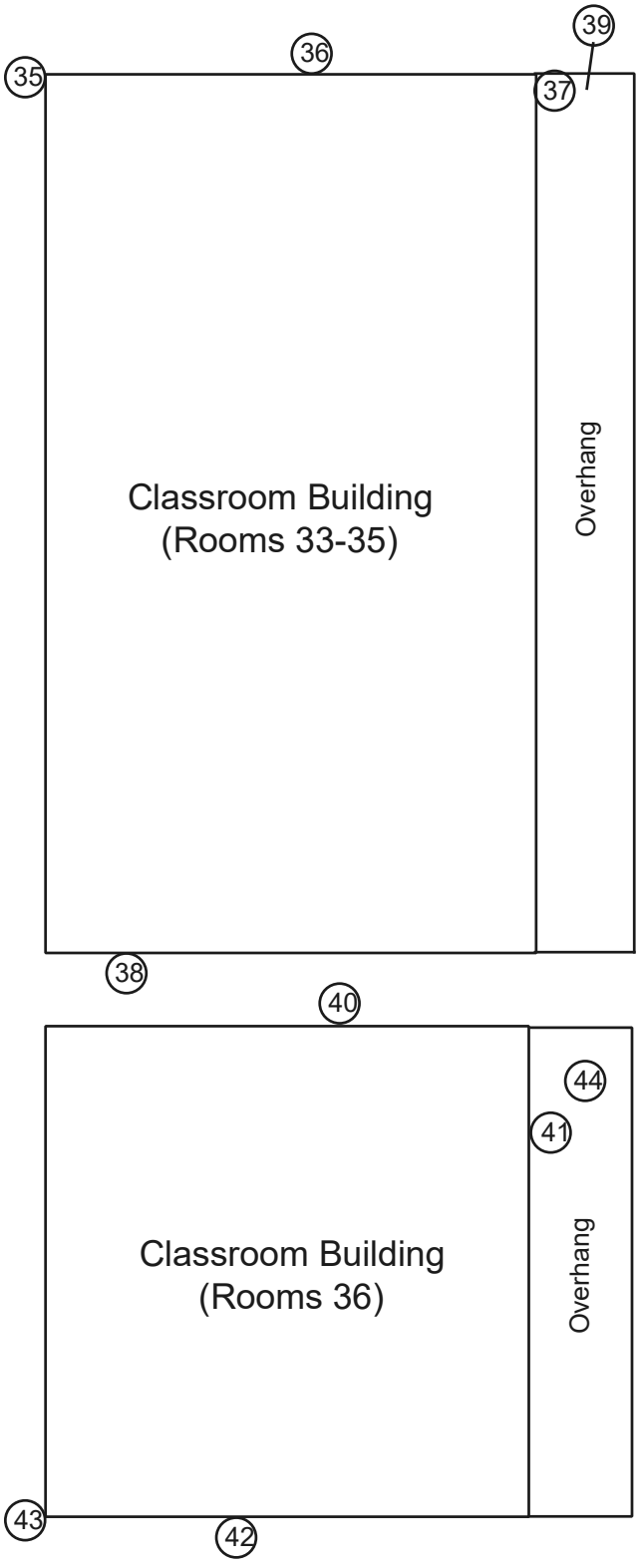
Client: Rosemead SD	**Project#:** 21-10046-0066	**Info:** PLM Sample Location
EXECUTIVE ENVIRONMENTAL **HEALTH & SAFETY SIMPLIFIED**		**Site:** Shuey ES - Painting Project **Address:** 3720 Rio Hondo Avenue Rosemead, CA 91770

Multi-Purpose Building



Client: Rosemead School District	**Project #:** 21-Z046-0066	**Info:** PLM Sample Location
EXECUTIVE ENVIRONMENTAL **HEALTH & SAFETY SIMPLIFIED**		**Site:** Shuey Elementary School **Address:** 8471 Wells Street Rosemead, CA 91770

Classroom Buildings
(Room 33-35)

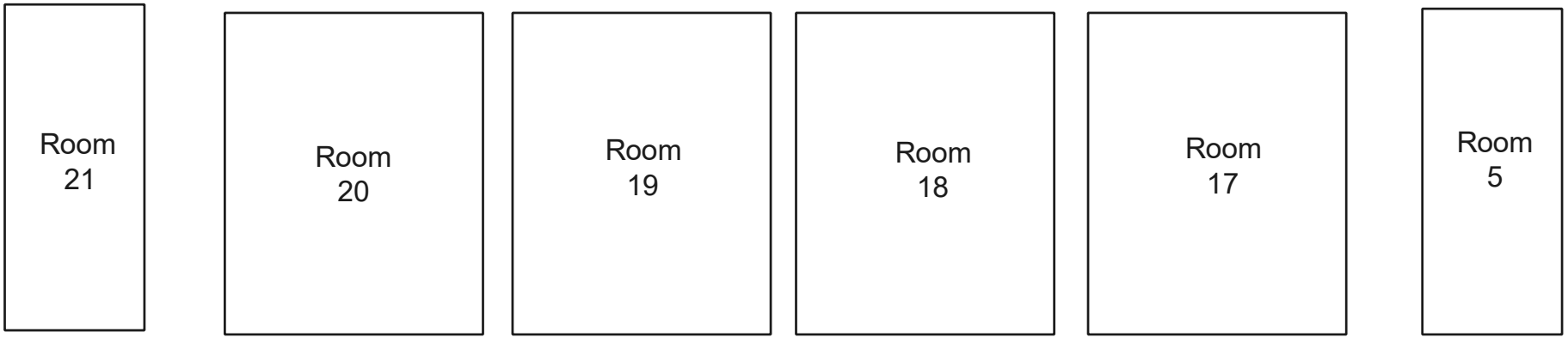


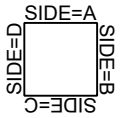
◯ - PLM Sample Location

N

Client: Rosemead SD	**Project#:** 21-10046-0066	**Info:** PLM Sample Location
EXECUTIVE ENVIRONMENTAL **HEALTH & SAFETY SIMPLIFIED**		**Site:** Shuey ES - Painting Project **Address:** 3720 Rio Hondo Avenue Rosemead, CA 91770 Drawing Not to Scale - © 2012

Portables
Exterior





N

Client: Rosemead School District

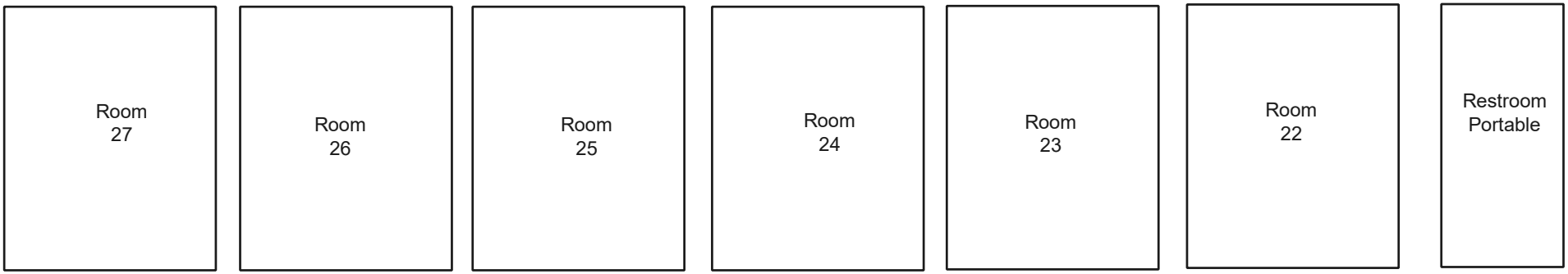
Project #: 21-Z0046-0066

Info: No Suspect Material Identified

EXECUTIVE ENVIRONMENTAL
HEALTH & SAFETY SIMPLIFIED

Site: Shuey Elementary School-Painting Project
Adress: 8472 East Wells Street
Rosemead, California 91770

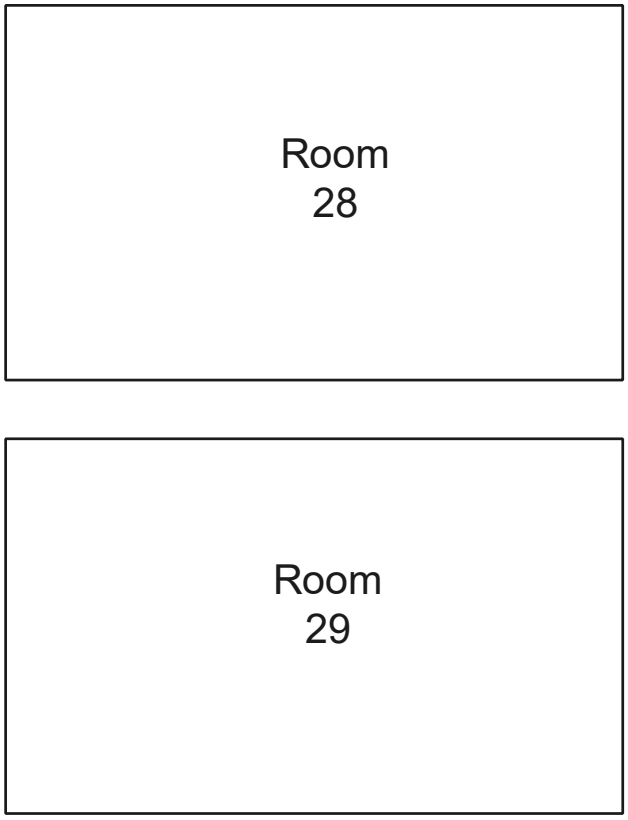
Portables
(Rooms 22-27) and Restroom



N

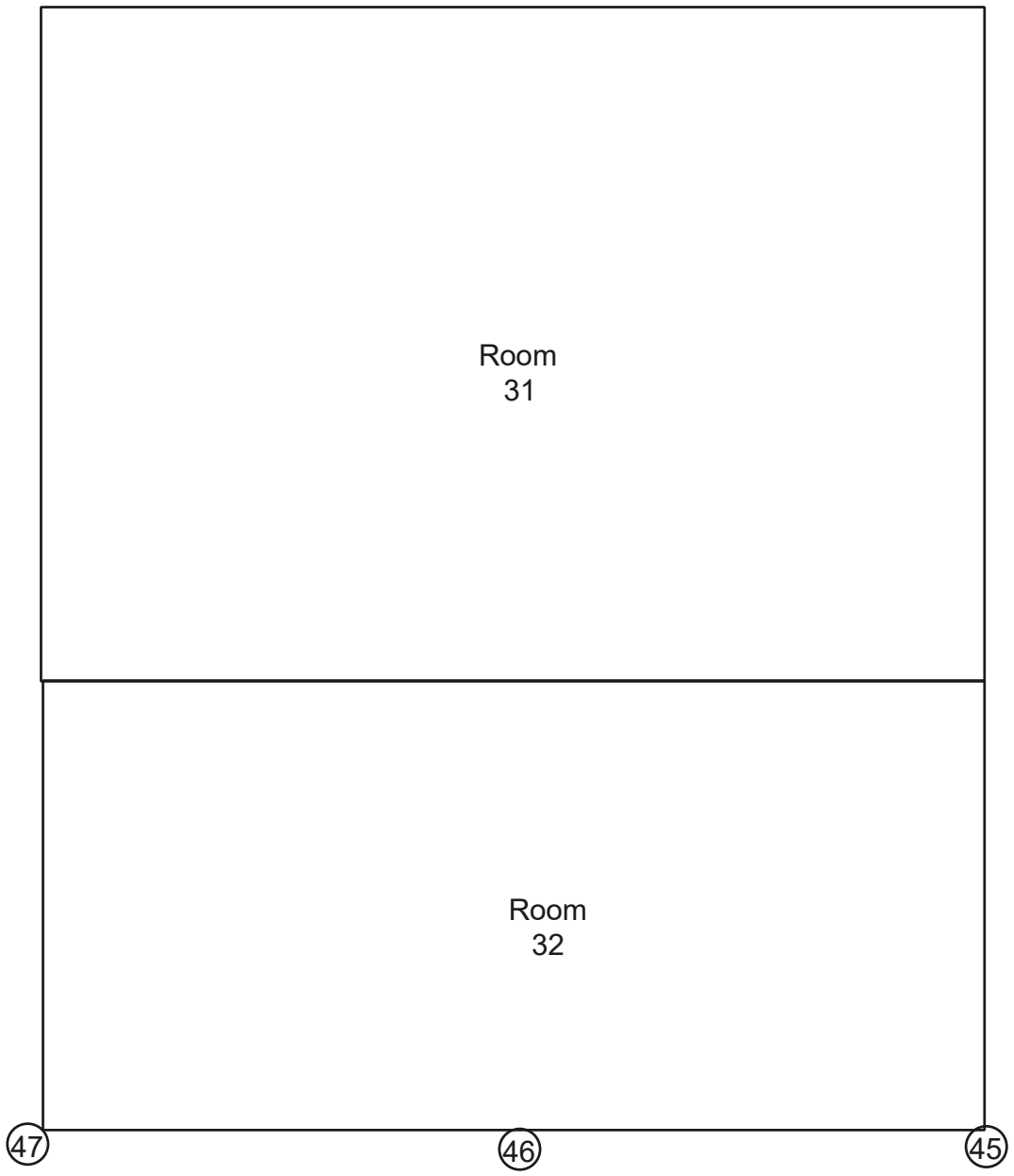
Client: Rosemead School District	**Project #:** 21-Z0046-0066	**Info:** No Suspect Material Identified
EXECUTIVE ENVIRONMENTAL **HEALTH & SAFETY SIMPLIFIED**		**Site:** Shuey Elementary School-Painting Project **Adress:** 8472 East Wells Street Rosemead, California 91770

Portables
(Rooms 28-30)



Client: Rosemead SD	**Project#:** 21-10046-0066	**Info:** No Suspect Material Identified
EXECUTIVE ENVIRONMENTAL **HEALTH & SAFETY SIMPLIFIED**		**Site:** Shuey ES - Painting Project **Address:** 3720 Rio Hondo Avenue Rosemead, CA 91770

Portables
(Rooms 31-32)

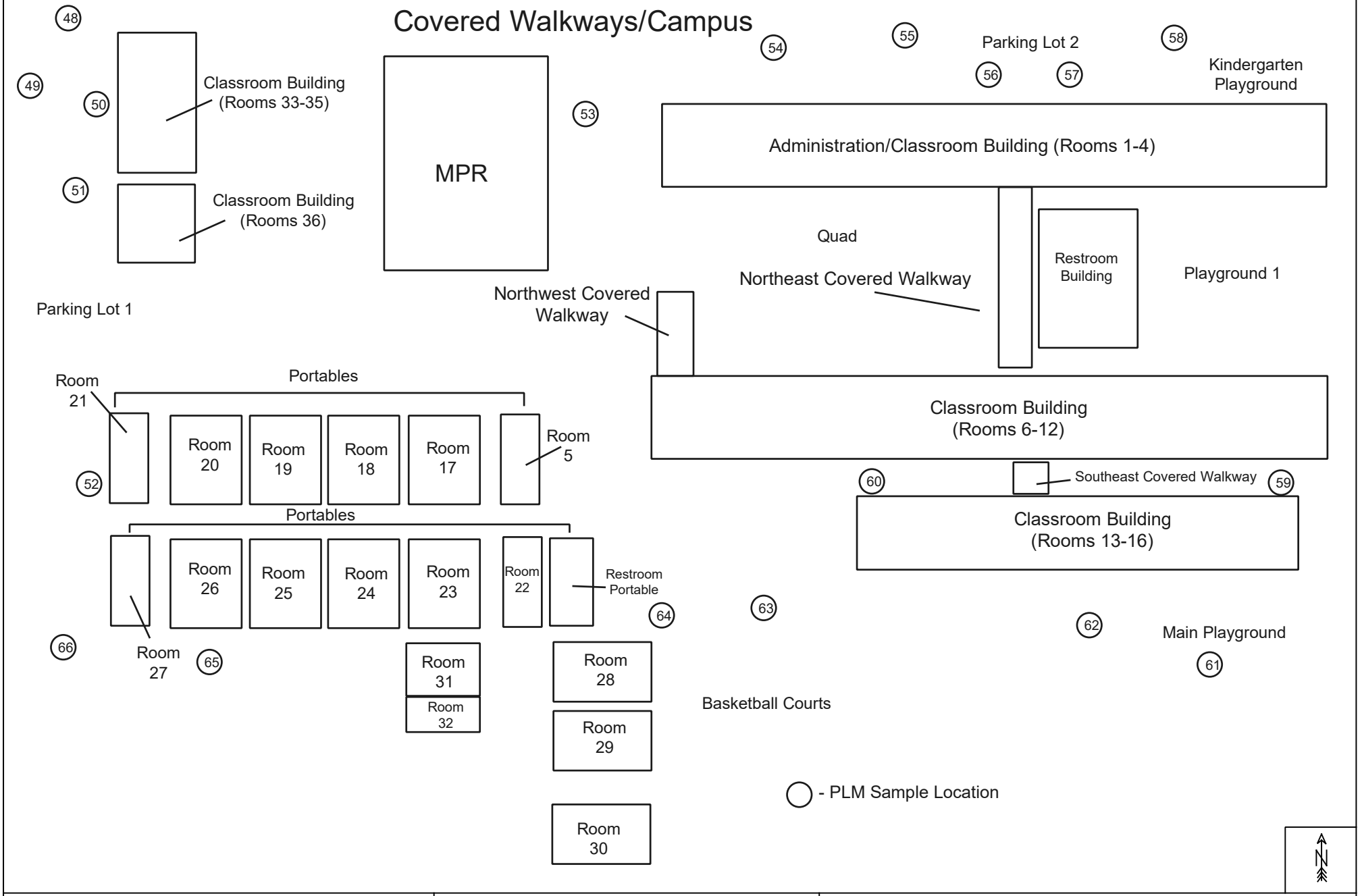


◯ - PLM Sample Location

N

Client: Rosemead SD	**Project#:** 21-10046-0066	**Info:** PLM Sample Location
EXECUTIVE ENVIRONMENTAL **HEALTH & SAFETY SIMPLIFIED**		**Site:** Shuey ES - Painting Project **Address:** 3720 Rio Hondo Avenue Rosemead, CA 91770

Covered Walkways/Campus



Client: Rosemead School District	**Project #:** 21-Z0046-0066	**Info:** PLM Sample Location

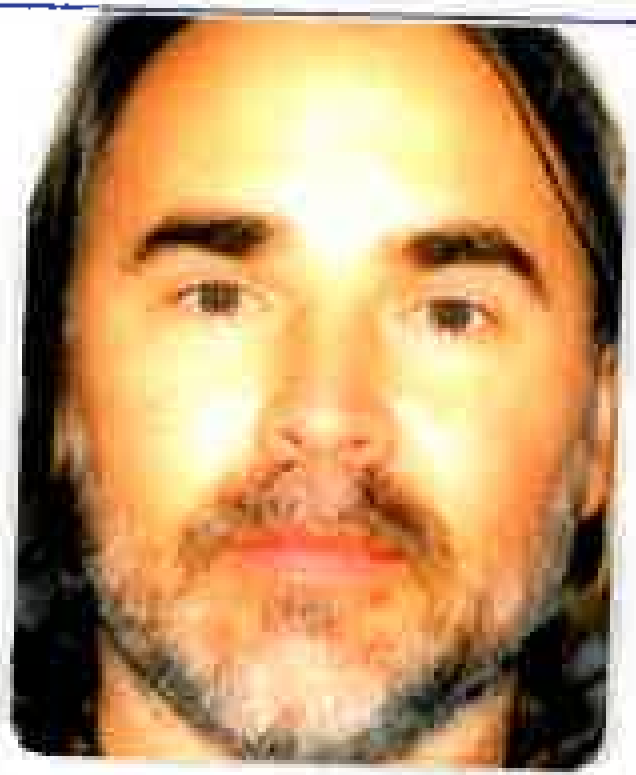
EXECUTIVE ENVIRONMENTAL
HEALTH & SAFETY SIMPLIFIED

Site: Shuey Elementary School-Painting Project
Adress: 8472 East Wells Street
Rosemead, California 91770

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 **01/20/22**

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 JULY 23, 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:

SHUEY ELEMENTARY SCHOOL
PAINTING PROJECT
8472 EAST WELLS STREET
ROSEMEAD, CALIFORNIA 91770

Prepared for:

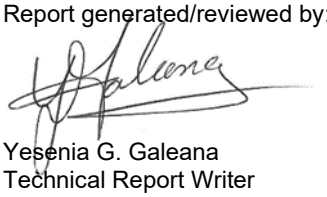
MR. HAROLD SULLINS
ASSISTANT SUPERINTENDENT
ROSEMEAD SCHOOL DISTRICT
3907 ROSEMEAD BOULEVARD, SUITE 220
ROSEMEAD, CALIFORNIA 91770

Prepared by:

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

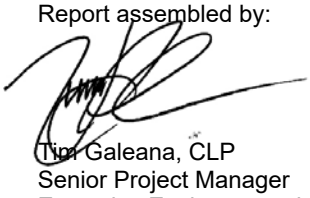
Project Number EE 21-Z0046-0066
July 23, 2021

Report generated/reviewed by:



Yesenia G. Galeana
Technical Report Writer
Executive Environmental

Report assembled by:



Tim Galeana, CLP
Senior Project Manager
Executive Environmental

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LIMITED LEAD-BASED PAINT INSPECTION

Project Number:	EE 21-Z0046-0066
Client:	Rosemead School District 3907 Rosemead Boulevard, Suite 220 Rosemead, California 91770
Site Location:	Shuey Elementary School Painting Project 8472 East Wells Street Rosemead, California 91770
Site Use:	School Property
Contact Person:	Mr. Harold Sullins Assistant Superintendent Phone: (626) 312-2900
Inspection Date Between:	May 19 thru 24, 2021
Inspected By:	Mr. Rhys Kuzmic Certified Lead Professional, CDPH #18093/LRC-04395
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 Shuey Elementary School located at 8472 East Wells Street, 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 May 19 thru 24, 2021. *This is considered to be a limited inspection. Inspection was limited to exterior surfaces and components anticipated to be impacted by the exterior painting project.*

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 Shuey 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
Shuey Elementary School
8472 East Wells Street
Rosemead, California 91770

Location	Component	Substrate	Estimate Quantity	XRF Result Mg/cm^2
Administration/Classroom Building (Rooms 1 thru 4)				
Exterior, side A at porch area/main entry to Office	Overhang riser/vertical beam (green, decorative)	Wood	65 Square Feet	1.9
Exterior, sides A & C	Downspout	Metal	185 Linear Feet	0.7-1
	Window sash (green)	Wood	50 Windows	1
Exterior, side C	Fire hose case	Wood	2 Total	0.7
Exterior, side C at top of brick vertical support	Overhang support beam (9”x6” horizontal beam)	Wood	260 Square Feet	2
Exterior, throughout perimeter	Fascia	Wood	570 Linear Feet	1.3
Exterior, sides A & C	Overhang	Wood	3,800 Square Feet	1.2
Restroom Building				
Exterior, side B	Vent	Metal	1 Total	0.7
Exterior, throughout perimeter edge metal	Drip edge	Metal	130 Linear Feet	1.4

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

XRF SAMPLE ANALYSIS DATA

Shuey Elementary School
8472 East Wells Street Rosemead, California 91770

Location	Component	Substrate	Estimate Quantity	XRF Result Mg/cm^2
Classroom Building (Classrooms 6 thru 12)				
Exterior, sides A & C	Downspout	Metal	155 Linear Feet	10.7
Exterior, side C	Window sash (green)[1]	Wood	49 Windows	0.7
Exterior, side C on overhang rafter	Conduit	Metal	40 Linear Feet	0.7
Exterior, side C at top of brick vertical support and side D, overhang beams	Overhang support beam (9"x6" horizontal beam)	Wood	300 Square Feet	0.7
Exterior, throughout	Fascia	Wood	620 Linear Feet	0.7
Building D (Classrooms 13 thru 16)				
Exterior, sides A & C	Window sash	Wood	51 Windows	0.7
	Window casing	Wood	83 Windows	0.8
Exterior, sides A & C upper and lower windows on side C	Window sill	Wood		1.1
Exterior, sides A & C	Overhang & overhang rafter	Wood	2,300 Square Feet	0.7-1.4
Exterior, side C at top of brick vertical support	Overhang support beam (9"x6" horizontal beam)	Wood	142 Square Feet	0.8
Exterior, throughout perimeter	Fascia	Wood	375 Linear Feet	0.7
Exterior, side C, east side	Floor stripe (white over orange stripes)	Concrete	50 Linear Feet	1.1
Exterior, side C	Drinking fountain	Porcelain	2 Total	36

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

XRF SAMPLE ANALYSIS DATA

Shuey Elementary School
8472 East Wells Street Rosemead, California 91770

Location	Component	Substrate	Estimate	XRF Result

[1] NOTE: 1) Some window sash are peeling.

			Quantity	Mg/cm^2
Multi-Purpose Building				
No regulated lead-based paint was identified on exterior surfaces and/or components anticipated to be impacted by the Exterior Painting Project.				
Classroom Building (Rooms 33 thru 35)				
No regulated lead-based paint was identified on exterior surfaces and/or components anticipated to be impacted by the Exterior Painting Project.				
Classroom Building (Room 36)				
No regulated lead-based paint was identified on exterior surfaces and/or components anticipated to be impacted by the Exterior Painting Project.				
Portables				
Room 29: exterior, sides B & D	Gutter	Metal	50 Linear Feet	15
No regulated lead-based paint was identified on exterior surfaces and/or components of Portables 5, 17 thru 28, 30 thru 32 and Restroom Portable.				
Covered Walkways				
Northeast Covered Walkway	Gutter (side D)	Metal	60 Linear Feet	1
	Ceiling beam (sides B & D)	Metal	80 Linear Feet	1.8
No regulated lead-based paint was identified on exterior surfaces and/or components of Southeast and Northwest Covered Walkways.				
Campus				
No regulated lead-based paint was identified on surfaces and/or components of the Parking Lots 1 and 2, Main Playground, Basketball Court, School Sign, Gate, Fence, Kindergarten Playground, Kindergarten Storage Shed, Storage Sheds 1, 2, 3, 4, 5 and 6 anticipated to be impacted by the Exterior Painting Project.				

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 Shuey Elementary School located at 8472 East Wells Street, 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 Shuey 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	Concentration	Result
1	5/19/21			Calibrate				1	Positive
2	5/19/21			Calibrate				1	Positive
3	5/19/21			Calibrate				1	Positive
4	5/19/21	Administration and Rooms 1 Through 4	Exterior	Wall	Stucco	A		0	Negative
5	5/19/21	Administration and Rooms 1 Through 4	Exterior	Wall	Stucco	A	Intact	0	Negative
6	5/19/21	Administration and Rooms 1 Through 4	Exterior	Overhang riser	Wood	A	Intact	0.2	Negative
7	5/19/21	Administration and Rooms 1 Through 4	Exterior	Decorative overhang riser	Wood	A	Intact	0.6	Negative
8	**5/19/21**	**Administration and Rooms 1 Through 4**	**Exterior**	**Decorative overhang riser**	**Wood**	**A**	**Intact**	**1.9**	**Positive**
9	5/19/21	Administration and Rooms 1 Through 4	Exterior	Downspout	Metal	A	Intact	0.6	Negative
10	5/19/21	Administration and Rooms 1 Through 4	Exterior	Downspout	Metal	A	Intact	0.5	Negative
11	5/19/21	Administration and Rooms 1 Through 4	Exterior	Patio pony wall trim	Wood	A	Intact	-0.3	Negative
12	5/19/21	Administration and Rooms 1 Through 4	Exterior	Door	Metal	A	Intact	0	Negative
13	5/19/21	Administration and Rooms 1 Through 4	Exterior	Door frame	Metal	A	Intact	0	Negative
14	5/19/21	Administration and Rooms 1 Through 4	Exterior	Pipe	Metal	A	Intact	0.1	Negative
15	5/19/21	Administration and Rooms 1 Through 4	Exterior	Pipe	Metal	A	Intact	0.1	Negative
16	**5/19/21**	**Administration and Rooms 1 Through 4**	**Exterior**	**Downspout**	**Metal**	**A**	**Intact**	**0.7**	**Positive**
17	5/19/21	Administration and Rooms 1 Through 4	Exterior	Door	Metal	A	Intact	0	Negative
18	5/19/21	Administration and Rooms 1 Through 4	Exterior	Door frame	Metal	A	Intact	0	Negative

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Concentration	Result
19	5/19/21	Administration and Rooms 1 Through 4	Exterior	Door frame	Metal	A	Intact	0.1	Negative
20	5/19/21	Administration and Rooms 1 Through 4	Exterior	Door	Metal	A	Intact	-0.1	Negative
21	5/19/21	Administration and Rooms 1 Through 4	Exterior	Pipe	Metal	A	Intact	0.3	Negative
22	5/19/21	Administration and Rooms 1 Through 4	Exterior	Bollard	Metal	A	Intact	0.1	Negative
23	5/19/21	Administration and Rooms 1 Through 4	Exterior	Bollard	Metal	A	Intact	0.1	Negative
24	5/19/21	Administration and Rooms 1 Through 4	Exterior	Bollard	Metal	A	Intact	0.1	Negative
25	5/19/21	Administration and Rooms 1 Through 4	Exterior	Bollard	Metal	A	Intact	0	Negative
26	5/19/21	Administration and Rooms 1 Through 4	Exterior	Window frame	Metal	A	Intact	0.1	Negative
27	5/19/21	Administration and Rooms 1 Through 4	Exterior	Window frame	Metal	A	Intact	0.1	Negative
28	5/19/21	Administration and Rooms 1 Through 4	Exterior	Window frame	Metal	A	Intact	0.1	Negative
29	5/19/21	Administration and Rooms 1 Through 4	Exterior	Door	Metal	A	Intact	0	Negative
30	5/19/21	Administration and Rooms 1 Through 4	Exterior	Door frame	Metal	A	Intact	0.1	Negative
31	5/19/21	Administration and Rooms 1 Through 4	Exterior: Breezeway	Ceiling	Stucco		Intact	0.1	Negative
32	5/19/21	Administration and Rooms 1 Through 4	Exterior	Wall	Stucco	B	Intact	-0.1	Negative
33	5/19/21	Administration and Rooms 1 Through 4	Exterior	Conduit	Metal	B	Intact	0.3	Negative
34	5/19/21	Administration and Rooms 1 Through 4	Exterior	Conduit	Metal	B	Intact	0.4	Negative

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Concentration	Result
35	5/19/21	Administration and Rooms 1 Through 4	Exterior	Conduit	Metal	B	Intact	0.3	Negative
36	5/19/21	Administration and Rooms 1 Through 4	Exterior	Conduit	Metal	B	Intact	0.4	Negative
37	5/19/21	Administration and Rooms 1 Through 4	Exterior	Wall	Stucco	C	Intact	-0.2	Negative
38	5/19/21	Administration and Rooms 1 Through 4	Exterior	Window sill	Wood	C	Intact	0.3	Negative
39	5/19/21	Administration and Rooms 1 Through 4	Exterior	Window sill	Wood	C	Intact	0.3	Negative
40	**5/19/21**	**Administration and Rooms 1 Through 4**	**Exterior**	**Window sash**	**Wood**	**C**	**Intact**	**1**	**Positive**
41	5/19/21	Administration and Rooms 1 Through 4	Exterior	Window frame	Wood	C	Intact	0	Negative
42	5/19/21	Administration and Rooms 1 Through 4	Exterior	Window frame	Wood	C	Intact	-0.1	Negative
43	5/19/21	Administration and Rooms 1 Through 4	Exterior	Window casing	Wood	C	Intact	0.3	Negative
44	5/19/21	Administration and Rooms 1 Through 4	Exterior	Window casing	Wood	C	Intact	0.4	Negative
45	5/19/21	Administration and Rooms 1 Through 4	Exterior	Door	Metal	C	Intact	0	Negative
46	5/19/21	Administration and Rooms 1 Through 4	Exterior	Door frame	Metal	C	Intact	0.1	Negative
47	5/19/21	Administration and Rooms 1 Through 4	Exterior	Vent	Metal	C	Intact	-0.1	Negative
48	5/19/21	Administration and Rooms 1 Through 4	Exterior	Vent	Metal	C	Intact	0.1	Negative
49	5/19/21	Administration and Rooms 1 Through 4	Exterior	Vent	Metal	C	Intact	0.1	Negative
50	5/19/21	Administration and Rooms 1 Through 4	Exterior	Vent	Metal	C	Intact	-0.3	Negative

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Concentration	Result
51	5/19/21	Administration and Rooms 1 Through 4	Exterior	Door	Metal	C	Intact	-0.1	Negative
52	5/19/21	Administration and Rooms 1 Through 4	Exterior	Door frame	Metal	C	Intact	0.2	Negative
53	5/19/21	Administration and Rooms 1 Through 4	Exterior	Fire hose case	Wood	C	Intact	-0.1	Negative
54	5/19/21	Administration and Rooms 1 Through 4	Exterior	Fire hose case	Wood	C	Intact	0.3	Negative
55	5/19/21	Administration and Rooms 1 Through 4	Exterior	Window sill	Wood	C	Intact	0.2	Negative
56	5/19/21	Administration and Rooms 1 Through 4	Exterior	Window sill	Wood	C	Intact	0	Negative
57	5/19/21	Administration and Rooms 1 Through 4	Exterior	Window sill	Wood	C	Intact	0.2	Negative
58	5/19/21	Administration and Rooms 1 Through 4	Exterior	Window sill	Wood	C	Intact	0.2	Negative
59	5/19/21	Administration and Rooms 1 Through 4	Exterior	Window frame	Wood	C	Intact	0	Negative
60	5/19/21	Administration and Rooms 1 Through 4	Exterior	Window frame	Wood	C	Intact	0	Negative
61	5/19/21	Administration and Rooms 1 Through 4	Exterior	Window frame	Wood	C	Intact	0.4	Negative
62	5/19/21	Administration and Rooms 1 Through 4	Exterior	Window frame	Wood	C	Intact	0.4	Negative
63	5/19/21	Administration and Rooms 1 Through 4	Exterior	Window frame	Wood	C	Intact	0.1	Negative
64	5/19/21	Administration and Rooms 1 Through 4	Exterior	Window frame	Wood	C	Intact	0.5	Negative
65	5/19/21	Administration and Rooms 1 Through 4	Exterior	Window casing	Wood	C	Intact	0.1	Negative
66	5/19/21	Administration and Rooms 1 Through 4	Exterior	Window casing	Wood	C	Intact	0.4	Negative

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Concentration	Result
67	5/19/21	Administration and Rooms 1 Through 4	Exterior	Window casing	Wood	C	Intact	0.2	Negative
68	5/19/21	Administration and Rooms 1 Through 4	Exterior	Window casing	Wood	C	Intact	0.3	Negative
69	5/19/21	Administration and Rooms 1 Through 4	Exterior	Window casing	Wood	C	Intact	0.3	Negative
70	5/19/21	Administration and Rooms 1 Through 4	Exterior	Window casing	Wood	C	Intact	0.2	Negative
71	5/19/21	Administration and Rooms 1 Through 4	Exterior	Window casing	Wood	C	Intact	0.4	Negative
72	5/19/21	Administration and Rooms 1 Through 4	Exterior	Window frame	Wood	C	Intact	0.2	Negative
73	5/19/21	Administration and Rooms 1 Through 4	Exterior	Window frame	Wood	C	Intact	0.1	Negative
74	5/19/21	Administration and Rooms 1 Through 4	Exterior	Window frame	Wood	C	Intact	0.4	Negative
75	5/19/21	Administration and Rooms 1 Through 4	Exterior	Window frame	Wood	C	Intact	0.4	Negative
76	5/19/21	Administration and Rooms 1 Through 4	Exterior	Window frame	Wood	C	Intact	0.1	Negative
77	5/19/21	Administration and Rooms 1 Through 4	Exterior	Window sill	Wood	C	Intact	0.2	Negative
78	5/19/21	Administration and Rooms 1 Through 4	Exterior	Window sill	Wood	C	Intact	0.5	Negative
79	5/19/21	Administration and Rooms 1 Through 4	Exterior	Window sill	Wood	C	Intact	0.4	Negative
80	5/19/21	Administration and Rooms 1 Through 4	Exterior	Window sill	Wood	C	Intact	0.3	Negative
81	5/19/21	Administration and Rooms 1 Through 4	Exterior	Window frame	Wood	C	Intact	0	Negative
82	5/19/21	Administration and Rooms 1 Through 4	Exterior	Window frame	Wood	C	Intact	0.1	Negative

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Concentration	Result
83	5/19/21	Administration and Rooms 1 Through 4	Exterior	Window frame	Wood	C	Intact	0.3	Negative
84	5/19/21	Administration and Rooms 1 Through 4	Exterior	Window casing	Wood	C	Intact	0.4	Negative
85	5/19/21	Administration and Rooms 1 Through 4	Exterior	Window casing	Wood	C	Intact	0.3	Negative
86	5/19/21	Administration and Rooms 1 Through 4	Exterior	Door	Wood	C	Intact	-0.2	Negative
87	5/19/21	Administration and Rooms 1 Through 4	Exterior	Door frame	Metal	C	Intact	0.2	Negative
88	5/19/21	Administration and Rooms 1 Through 4	Exterior	Door frame	Metal	C	Intact	0.2	Negative
89	5/19/21	Administration and Rooms 1 Through 4	Exterior	Door	Wood	C	Intact	-0.2	Negative
90	5/19/21	Administration and Rooms 1 Through 4	Exterior	Door	Metal	C	Intact	0	Negative
91	5/19/21	Administration and Rooms 1 Through 4	Exterior	Door frame	Metal	C	Intact	0	Negative
92	5/19/21	Administration and Rooms 1 Through 4	Exterior	Window frame	Metal	C	Intact	0.1	Negative
93	5/19/21	Administration and Rooms 1 Through 4	Exterior	Window frame	Metal	C	Intact	0.1	Negative
94	5/19/21	Administration and Rooms 1 Through 4	Exterior	Fire hose case	Wood	C	Intact	0.1	Negative
95	**5/19/21**	**Administration and Rooms 1 Through 4**	**Exterior**	**Fire hose case**	**Wood**	**C**	**Intact**	**0.7**	**Positive**
96	5/19/21	Administration and Rooms 1 Through 4	Exterior	Door	Metal	C	Intact	0.1	Negative
97	5/19/21	Administration and Rooms 1 Through 4	Exterior	Door frame	Metal	C	Intact	0	Negative
98	5/19/21	Administration and Rooms 1 Through 4	Exterior	Door frame	Metal	C	Intact	0	Negative

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Concentration	Result
99	5/19/21	Administration and Rooms 1 Through 4	Exterior	Door	Metal	C	Intact	-0.1	Negative
100	5/19/21	Administration and Rooms 1 Through 4	Exterior	Door	Metal	C	Intact	0	Negative
101	5/19/21	Administration and Rooms 1 Through 4	Exterior	Door frame	Metal	C	Intact	0.1	Negative
102	5/19/21	Administration and Rooms 1 Through 4	Exterior	Window frame	Metal	C	Intact	0.1	Negative
103	5/19/21	Administration and Rooms 1 Through 4	Exterior	Window frame	Metal	C	Intact	0	Negative
104	5/19/21	Administration and Rooms 1 Through 4	Exterior	Window frame	Metal	D	Intact	0.1	Negative
105	5/19/21	Administration and Rooms 1 Through 4	Exterior	Wall	Stucco	D	Intact	0	Negative
106	5/19/21	Administration and Rooms 1 Through 4	Exterior	Door	Metal	D	Intact	-0.1	Negative
107	5/19/21	Administration and Rooms 1 Through 4	Exterior	Door frame	Metal	D	Intact	0	Negative
108	5/19/21	Administration and Rooms 1 Through 4	Exterior	Drinking fountain	Metal	C	Intact	-0.1	Negative
109	5/19/21	Administration and Rooms 1 Through 4	Exterior	Table	Wood	C	Intact	-0.1	Negative
110	5/19/21	Administration and Rooms 1 Through 4	Exterior	Table	Wood	C	Peeling	-0.1	Negative
111	5/19/21	Administration and Rooms 1 Through 4	Exterior	Overhang	Wood	C	Intact	0.4	Negative
112	5/19/21	Administration and Rooms 1 Through 4	Exterior	Overhang	Wood	C	Intact	-0.1	Negative
113	**5/19/21**	**Administration and Rooms 1 Through 4**	**Exterior**	**Overhang beam**	**Wood**	**C**	**Intact**	**2**	**Positive**
114	5/19/21	Administration and Rooms 1 Through 4	Exterior	Overhang rafter	Wood	C	Intact	0.1	Negative

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Concentration	Result
115	5/19/21	Administration and Rooms 1 Through 4	Exterior	Overhang rafter	Wood	C	Intact	-0.1	Negative
116	5/19/21	Administration and Rooms 1 Through 4	Exterior	Gutter	Metal	C	Intact	0	Negative
117	5/19/21	Administration and Rooms 1 Through 4	Exterior	Drip edge	Metal	C	Intact	0.2	Negative
118	**5/19/21**	**Administration and Rooms 1 Through 4**	**Exterior**	**Fascia**	**Wood**	**C**	**Intact**	**1.3**	**Positive**
119	5/19/21	Administration and Rooms 1 Through 4	Exterior	Conduit	Metal	C	Intact	0.2	Negative
120	5/19/21	Administration and Rooms 1 Through 4	Exterior	Conduit	Metal	C	Intact	0.2	Negative
121	5/19/21	Administration and Rooms 1 Through 4	Exterior	Conduit	Metal	C	Intact	0.2	Negative
122	5/19/21	Administration and Rooms 1 Through 4	Exterior	Conduit	Metal	C	Intact	0.1	Negative
123	5/19/21	Administration and Rooms 1 Through 4	Exterior	Overhang	Wood	C	Intact	0.3	Negative
124	5/19/21	Administration and Rooms 1 Through 4	Exterior	Overhang	Wood	C	Intact	0.4	Negative
125	5/19/21	Administration and Rooms 1 Through 4	Exterior	Upper window sill	Wood	C	Intact	0.2	Negative
126	5/19/21	Administration and Rooms 1 Through 4	Exterior	Upper window sill	Wood	C	Intact	0.3	Negative
127	5/19/21	Administration and Rooms 1 Through 4	Exterior	Upper window casing	Wood	C	Intact	0.3	Negative
128	5/19/21	Administration and Rooms 1 Through 4	Exterior	Upper window casing	Wood	C	Intact	0.2	Negative
129	5/19/21	Administration and Rooms 1 Through 4	Exterior	Upper window casing	Wood	C	Intact	0.4	Negative
130	5/19/21	Administration and Rooms 1 Through 4	Exterior	Upper window casing	Wood	C	Intact	0.4	Negative

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Concentration	Result
131	5/19/21	Administration and Rooms 1 Through 4	Exterior	Upper window sill	Wood	C	Intact	0.4	Negative
132	5/19/21	Administration and Rooms 1 Through 4	Exterior	Upper window sill	Wood	C	Intact	0.3	Negative
133	5/19/21	Administration and Rooms 1 Through 4	Exterior	Upper window sill	Wood	C	Intact	0.4	Negative
134	5/19/21	Administration and Rooms 1 Through 4	Exterior	Upper window sill	Wood	C	Intact	0.5	Negative
135	5/19/21	Administration and Rooms 1 Through 4	Exterior	Upper window casing	Wood	C	Intact	0.2	Negative
136	5/19/21	Administration and Rooms 1 Through 4	Exterior	Upper window casing	Wood	C	Intact	0.2	Negative
137	5/19/21	Administration and Rooms 1 Through 4	Exterior	Upper window casing	Wood	C	Intact	0.1	Negative
138	5/19/21	Administration and Rooms 1 Through 4	Exterior	Overhang rafter	Wood	C	Intact	0.2	Negative
139	5/19/21	Administration and Rooms 1 Through 4	Exterior	Overhang rafter	Wood	C	Intact	0.2	Negative
140	**5/19/21**	**Administration and Rooms 1 Through 4**	**Exterior**	**Overhang**	**Wood**	**C**	**Intact**	**1.2**	**Positive**
141	**5/19/21**	**Administration and Rooms 1 Through 4**	**Exterior**	**Downspout**	**Metal**	**C**	**Intact**	**1**	**Positive**
142	5/19/21	Administration and Rooms 1 Through 4	Exterior	Wall	Stucco	A	Intact	0.1	Negative
143	5/19/21	Administration and Rooms 1 Through 4	Exterior	Window sill	Wood	A	Intact	0.2	Negative
144	5/19/21	Administration and Rooms 1 Through 4	Exterior	Door	Metal	A	Intact	0	Negative
145	5/19/21	Administration and Rooms 1 Through 4	Exterior	Door frame	Metal	A	Intact	0.2	Negative
146	5/19/21	Administration and Rooms 1 Through 4	Exterior	Window sill	Wood	A	Intact	0.2	Negative

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Concentration	Result
147	5/19/21	Administration and Rooms 1 Through 4	Exterior	Window casing	Wood	A	Intact	0.3	Negative
148	5/19/21	Administration and Rooms 1 Through 4	Exterior	Window casing	Wood	A	Intact	0.3	Negative
149	5/19/21	Administration and Rooms 1 Through 4	Exterior	Window casing	Wood	A	Intact	0.4	Negative
150	5/19/21	Administration and Rooms 1 Through 4	Exterior	Window sill	Wood	A	Intact	0.3	Negative
151	5/19/21	Administration and Rooms 1 Through 4	Exterior	Window sill	Wood	A	Intact	0.2	Negative
152	5/19/21	Administration and Rooms 1 Through 4	Exterior	Window frame	Wood	A	Intact	0.1	Negative
153	5/19/21	Administration and Rooms 1 Through 4	Exterior	Window frame	Wood	A	Intact	0	Negative
154	5/19/21	Administration and Rooms 1 Through 4	Exterior	Window frame	Wood	A	Intact	-0.1	Negative
155	5/19/21	Administration and Rooms 1 Through 4	Exterior	Window frame	Wood	A	Intact	-0.1	Negative
156	5/19/21	Administration and Rooms 1 Through 4	Exterior	Hand rail	Metal	A	Intact	-0.1	Negative
157	5/19/21	Administration and Rooms 1 Through 4	Exterior	Hand rail	Metal	A	Intact	0	Negative
158	5/19/21	Administration and Rooms 1 Through 4	Exterior	Drinking fountain	Porcelain	A	Intact	-0.1	Negative
159	5/19/21	Administration and Rooms 1 Through 4	Exterior	Gutter	Metal	A	Intact	0.1	Negative
160	5/19/21	Administration and Rooms 1 Through 4	Exterior	Gutter	Metal	A	Intact	0	Negative
161	5/19/21	Administration and Rooms 1 Through 4	Exterior	Overhang rafter	Wood	A	Intact	0.1	Negative
162	5/19/21	Administration and Rooms 1 Through 4	Exterior	Overhang rafter	Wood	A	Intact	-0.1	Negative

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Concentration	Result
163	5/19/21	Administration and Rooms 1 Through 4	Exterior	Conduit	Metal	A	Intact	0.3	Negative
164	5/19/21	Campus	Kindergarten Playground	Floor stripe	Asphalt	A	Intact	0.2	Negative
165	5/19/21	Campus	Kindergarten Playground	Floor stripe	Asphalt	A	Intact	0.1	Negative
166	5/19/21	Campus	Kindergarten Playground	Floor stripe	Asphalt	A	Intact	0.2	Negative
167	5/19/21	Campus	Kindergarten Playground	Floor stripe	Asphalt	A	Intact	0.1	Negative
168	5/19/21	Campus	Kindergarten Playground	Floor stripe	Asphalt	A	Intact	0.1	Negative
169	5/19/21	Campus	Kindergarten Playground	Floor stripe	Asphalt	A	Intact	0	Negative
170	5/19/21	Campus	Kindergarten Playground	Floor stripe	Asphalt	A	Intact	0.1	Negative
171	5/19/21	Campus	Kindergarten Playground	Floor stripe	Asphalt	A	Intact	0.2	Negative
172	5/19/21	Campus	Kindergarten Playground	Floor stripe	Asphalt	A	Intact	0.2	Negative
173	5/19/21	Campus	Kindergarten Playground	Floor stripe	Asphalt	A	Intact	0.2	Negative
174	5/19/21	Campus	Kindergarten Playground	Floor stripe	Concrete	A	Intact	0.2	Negative
175	5/19/21	Campus	Kindergarten Playground	Floor stripe	Concrete	A	Intact	0.2	Negative
176	5/19/21	Campus	Kindergarten Playground	Floor stripe	Concrete	A	Intact	0.1	Negative
177	5/19/21	Campus	Kindergarten Playground	Floor stripe	Concrete	A	Intact	0.2	Negative
178	5/19/21	Campus	Kindergarten Playground	Floor stripe	Concrete	A	Intact	0.1	Negative

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Concentration	Result
179	5/19/21	Campus	Kindergarten Playground	Floor stripe	Concrete	A	Intact	0.2	Negative
180	5/19/21	Campus	Kindergarten Playground	Floor stripe	Concrete	A	Intact	0.1	Negative
181	5/19/21	Campus	Kindergarten Playground	Fence	Metal	A	Intact	0	Negative
182	5/19/21	Campus	Kindergarten Playground	Fence	Metal	B	Intact	0.2	Negative
183	5/19/21	Campus	Kindergarten Playground	Fence	Metal	D	Intact	-0.1	Negative
184	5/19/21	Campus	Kindergarten Playground	Fence	Metal	D	Intact	0	Negative
185	5/19/21	Campus	Kindergarten Playground	Fence	Metal	D	Intact	0	Negative
186	5/19/21	Campus	Kindergarten Playground	Electrical vault access	Metal	Lower	Intact	-0.1	Negative
187	5/19/21	Campus	Kindergarten Playground	Electrical vault access	Metal	Lower	Peeling	0.2	Negative
188	5/19/21	Campus	Kindergarten Playground	Playground equipment	Metal		Intact	0.1	Negative
189	5/19/21	Campus	Kindergarten Playground	Playground equipment	Metal		Intact	0	Negative
190	5/19/21	Campus	Kindergarten Playground	Playground equipment	Metal		Intact	0	Negative
191	5/19/21	Kindergarten Playground Shed	Exterior	Wall	Wood	A	Intact	0	Negative
192	5/19/21	Kindergarten Playground Shed	Exterior	Wall	Wood	B	Intact	-0.1	Negative
193	5/19/21	Kindergarten Playground Shed	Exterior	Wall	Wood	C	Intact	0	Negative
194	5/19/21	Kindergarten Playground Shed	Exterior	Wall	Wood	D	Intact	0	Negative

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Concentration	Result
195	5/19/21	Kindergarten Playground Shed	Exterior	Door	Wood	D	Intact	0	Negative
196	5/19/21	Kindergarten Playground Shed	Exterior	Door	Wood	D	Intact	-0.1	Negative
197	5/19/21	Kindergarten Playground Shed	Exterior	Door frame	Wood	D	Intact	0	Negative
198	5/19/21	Kindergarten Playground Shed	Exterior	Wall trim	Wood	D	Intact	0.1	Negative
199	5/19/21	Kindergarten Playground Shed	Exterior	Overhang	Wood	A	Intact	0	Negative
200	5/19/21	Kindergarten Playground Shed	Exterior	Vent	Metal	D	Intact	0	Negative
201	5/19/21	Administration and Rooms 1 Through 4	Exterior	Drip edge	Metal	A	Intact	0	Negative
202	5/19/21	Administration and Rooms 1 Through 4	Exterior	Drip edge	Metal	B	Intact	0.3	Negative
203	5/19/21	Administration and Rooms 1 Through 4	Exterior	Window panel	Wood	A	Intact	0	Negative
204	5/19/21	Administration and Rooms 1 Through 4	Exterior	Window panel	Wood	A	Intact	-0.1	Negative
205	5/19/21	Administration and Rooms 1 Through 4	Exterior	Overhang	Wood slats	A	Intact	-0.3	Negative
206	5/19/21	Administration and Rooms 1 Through 4	Exterior	Overhang	Wood slats	A	Intact	0	Negative
207	5/19/21	Administration and Rooms 1 Through 4	Exterior	Overhang rafter	Wood	A	Intact	0.2	Negative
208	5/19/21	Administration and Rooms 1 Through 4	Exterior	Overhang rafter	Wood	A	Intact	-0.2	Negative
209	5/19/21	Administration and Rooms 1 Through 4	Exterior	Pipe	Metal	A	Intact	0.1	Negative
210	5/19/21	Administration and Rooms 1 Through 4	Exterior	Gutter	Metal	A	Intact	0.1	Negative

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Concentration	Result
211	5/19/21	Administration and Rooms 1 Through 4	Exterior	Drip edge	Metal	A	Intact	0.1	Negative
212	5/19/21	Administration and Rooms 1 Through 4	Exterior	Downspout	Metal	A	Intact	-0.1	Negative
213	5/19/21			Calibrate				1	Positive
214	5/19/21			Calibrate				1	Positive
215	5/19/21			Calibrate				1	Positive
216	5/19/21			Calibrate				0.9	Positive
217	5/19/21			Calibrate				0.9	Positive
218	5/19/21			Calibrate				0.9	Positive
219	5/19/21	Restroom Building	Exterior	Wall	Stucco	A	Intact	-0.1	Negative
220	5/19/21	Restroom Building	Exterior	Wall	Stucco	B	Intact	-0.2	Negative
221	5/19/21	Restroom Building	Exterior	Wall	Cinderblock	B	Intact	0.2	Negative
222	5/19/21	Restroom Building	Exterior	Wall	Cinderblock	C	Intact	0.1	Negative
223	5/19/21	Restroom Building	Exterior	Wall	Stucco	C	Intact	0.1	Negative
224	5/19/21	Restroom Building	Exterior	Conduit	Metal	C	Intact	0.3	Negative
225	5/19/21	Restroom Building	Exterior	Conduit	Metal	C	Intact	0	Negative
226	5/19/21	Restroom Building	Exterior	Conduit	Metal	C	Intact	0	Negative
227	5/19/21	Restroom Building	Exterior	Conduit	Metal	C	Intact	0.2	Negative
228	5/19/21	Restroom Building	Exterior	HVAC unit	Metal	C	Intact	0.1	Negative
229	5/19/21	Restroom Building	Exterior	Wall	Stucco	D	Intact	0	Negative
230	5/19/21	Restroom Building	Exterior	Door	Wood	D	Intact	0.1	Negative
231	5/19/21	Restroom Building	Exterior	Door frame	Metal	D	Intact	-0.1	Negative
232	5/19/21	Restroom Building	Exterior	Hand rail	Metal	D	Intact	0.1	Negative
233	5/19/21	Restroom Building	Exterior	Hand rail	Metal	D	Intact	0.1	Negative
234	5/19/21	Restroom Building	Exterior	Drinking fountain	Porcelain	D	Intact	-0.1	Negative
235	5/19/21	Restroom Building	Exterior	Wall tile	Ceramic	D	Intact	-0.1	Negative
236	5/19/21	Restroom Building	Exterior	Wall tile	Ceramic	D	Intact	0	Negative
237	5/19/21	Restroom Building	Exterior	Overhang	Stucco	D	Intact	0.1	Negative
238	5/19/21	Restroom Building	Exterior	Door	Wood	D	Intact	0.3	Negative
239	5/19/21	Restroom Building	Exterior	Door frame	Metal	D	Intact	0.4	Negative
240	5/19/21	Restroom Building	Exterior	Door	Metal	D	Intact	0	Negative
241	5/19/21	Restroom Building	Exterior	Door frame	Metal	D	Intact	0.1	Negative

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Concentration	Result
242	5/19/21	Restroom Building	Exterior	Door frame	Metal	D	Intact	0.1	Negative
243	5/19/21	Restroom Building	Exterior	Door	Metal	D	Intact	0	Negative
244	5/19/21	Restroom Building	Exterior	Overhang	Stucco	D	Intact	0	Negative
245	5/19/21	Restroom Building	Exterior	Fascia	Wood	B	Intact	-0.2	Negative
246	5/19/21	Restroom Building	Exterior	Fascia	Wood	B	Intact	-0.1	Negative
247	5/19/21	Restroom Building	Exterior	Drip edge	Metal	B	Intact	0.1	Negative
248	5/19/21	Restroom Building	Exterior	Door	Metal	B	Intact	0	Negative
249	5/19/21	Restroom Building	Exterior	Overhang	Wood	B	Intact	-0.3	Negative
250	5/19/21	Restroom Building	Exterior	Overhang rafter	Wood	B	Intact	-0.1	Negative
251	**5/19/21**	**Restroom Building**	**Exterior**	**Vent**	**Metal**	**B**	**Intact**	**0.7**	**Positive**
252	**5/19/21**	**Restroom Building**	**Exterior**	**Drip edge**	**Metal**	**D**	**Intact**	**1.4**	**Positive**
253	5/19/21	Restroom Building	Exterior	Window frame	Metal	B	Intact	-0.5	Negative
254	5/19/21	Restroom Building	Exterior	Window frame	Metal	B	Intact	-0.4	Negative
255	5/19/21			Calibrate				1	Positive
256	5/19/21			Calibrate				1.1	Positive
257	5/19/21			Calibrate				1.1	Positive
258	5/19/21			Calibrate				1	Positive
259	5/20/21			Calibrate				0.8	Positive
260	5/20/21			Calibrate				0.9	Positive
261	5/20/21			Calibrate				0.9	Positive
262	5/20/21			Calibrate				0.9	Positive
263	5/20/21			Calibrate				1	Positive
264	5/20/21			Calibrate				1	Positive
265	5/20/21			Calibrate				1	Positive
266	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Wall	Stucco	A	Intact	-0.1	Negative
267	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Conduit	Metal	A	Intact	0	Negative
268	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Door	Wood	A	Intact	-0.3	Negative
269	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Door frame	Wood	A	Intact	0.2	Negative

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Concentration	Result
270	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Door frame	Wood	A	Intact	0.2	Negative
271	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Door	Wood	A	Intact	-0.1	Negative
272	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Door	Wood	A	Intact	0	Negative
273	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Door frame	Wood	A	Intact	0.6	Negative
274	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Door frame	Wood	A	Intact	0.1	Negative
275	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Door frame	Wood	A	Intact	0.3	Negative
276	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Door	Wood	A	Intact	0	Negative
277	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Door	Wood	A	Intact	0	Negative
278	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Door frame	Wood	A	Peeling	0.3	Negative
279	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Door frame	Wood	A	Intact	0.4	Negative
280	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Door	Wood	A	Intact	0	Negative
281	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Door	Wood	A	Intact	0	Negative
282	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Door frame	Wood	A	Intact	0.1	Negative
283	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Wall	Stucco	A	Intact	-0.1	Negative
284	**5/20/21**	**Classroom Building (Rooms 6 Through 12)**	**Exterior**	**Downspout**	**Metal**	**A**	**Intact**	**10.7**	**Positive**
285	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Wall	Stucco	B	Intact	0.1	Negative

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Concentration	Result
286	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Conduit	Metal	B	Intact	0.3	Negative
287	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Conduit	Metal	B	Intact	0.3	Negative
288	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Conduit	Metal	B	Intact	0.3	Negative
289	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Conduit	Metal	B	Intact	0.3	Negative
290	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Conduit	Metal	B	Intact	0.3	Negative
291	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Pipe	Metal	B	Intact	0.3	Negative
292	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Pipe	Metal	B	Intact	0.2	Negative
293	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Wall	Stucco	C	Intact	-0.1	Negative
294	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Window sill	Wood	C	Peeling	0.5	Negative
295	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Window sill	Wood	C	Peeling	0.6	Negative
296	**5/20/21**	**Classroom Building (Rooms 6 Through 12)**	**Exterior**	**Window sash**	**Wood**	**C**	**Peeling**	**0.7**	**Positive**
297	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Window frame	Wood	C	Intact	0.2	Negative
298	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Window frame	Wood	C	Intact	0.1	Negative
299	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Window casing	Wood	C	Intact	0.3	Negative
300	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Window casing	Wood	C	Intact	0.4	Negative
301	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Door	Wood	C	Intact	-0.2	Negative

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Concentration	Result
302	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Door frame	Metal	C	Intact	0.1	Negative
303	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Door frame	Metal	C	Intact	0.1	Negative
304	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Door	Metal	C	Intact	-0.1	Negative
305	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Window sill	Wood	C	Intact	0.3	Negative
306	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Window sill	Wood	C	Intact	0.3	Negative
307	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Window frame	Wood	C	Intact	0.4	Negative
308	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Window frame	Wood	C	Intact	0.6	Negative
309	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Window casing	Wood	C	Intact	0.3	Negative
310	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Window casing	Wood	C	Intact	0.4	Negative
311	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Door	Wood	C	Intact	-0.2	Negative
312	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Door frame	Metal	C	Intact	0.2	Negative
313	5/20/21	Classroom Building (Rooms 6 Through 12)	Breezeway	Ceiling	Stucco	Upper	Intact	-0.1	Negative
314	5/20/21	Classroom Building (Rooms 6 Through 12)	Breezeway	Ceiling	Stucco	Upper	Intact	-0.4	Negative
315	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Wall	Stucco	C	Intact	-0.2	Negative
316	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Wall	Stucco	C	Intact	-0.2	Negative
317	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Door	Wood	C	Intact	-0.1	Negative

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Concentration	Result
318	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Door frame	Metal	C	Intact	0.2	Negative
319	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Door frame	Metal	C	Intact	0.1	Negative
320	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Door	Wood	C	Intact	-0.3	Negative
321	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Door	Wood	C	Intact	-0.2	Negative
322	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Door frame	Metal	C	Intact	0.2	Negative
323	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Door frame	Metal	C	Intact	0.2	Negative
324	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Door	Wood	C	Intact	-0.1	Negative
325	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Window sill	Wood	C	Intact	0.2	Negative
326	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Window sill	Wood	C	Intact	0.3	Negative
327	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Window sill	Wood	C	Intact	0.3	Negative
328	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Window frame	Wood	C	Intact	0.3	Negative
329	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Window frame	Wood	C	Intact	0.1	Negative
330	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Window frame	Wood	C	Intact	0.5	Negative
331	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Window frame	Wood	C	Intact	0.4	Negative
332	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Window casing	Wood	C	Intact	0.2	Negative
333	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Window casing	Wood	C	Intact	0.2	Negative

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Concentration	Result
334	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Window casing	Wood	C	Intact	0.3	Negative
335	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Window casing	Wood	C	Intact	0	Negative
336	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Wall	Ceramic tile	C	Intact	0.1	Negative
337	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Wall	Ceramic tile	C	Intact	-0.2	Negative
338	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Hand rail	Metal	C	Intact	0.1	Negative
339	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Hand rail	Metal	C	Intact	0.1	Negative
340	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Wall	Stucco	D	Intact	-0.1	Negative
341	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Overhang	Stucco	D	Intact	-0.3	Negative
342	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Overhang	Stucco	D	Intact	-0.1	Negative
343	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Door	Wood	D	Intact	0.2	Negative
344	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Door frame	Wood	D	Intact	0.4	Negative
345	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Door frame	Metal	D	Intact	0.1	Negative
346	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Door	Metal	D	Intact	0	Negative
347	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Door	Metal	D	Intact	0	Negative
348	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Door frame	Metal	D	Intact	0	Negative
349	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Door	Wood	D	Intact	0.3	Negative

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Concentration	Result
350	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Door frame	Wood	D	Intact	0.4	Negative
351	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Overhang	Wood	C	Intact	-0.1	Negative
352	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Overhang	Wood	C	Intact	0.1	Negative
353	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Overhang	Wood	C	Intact	-0.1	Negative
354	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Overhang beam	Wood	C	Intact	0.3	Negative
355	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Overhang beam	Wood	C	Intact	-0.1	Negative
356	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Overhang rafter	Wood	C	Intact	0	Negative
357	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Overhang rafter	Wood	C	Intact	0.1	Negative
358	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Fascia	Wood	C	Intact	0.5	Negative
359	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Gutter	Metal	C	Intact	0	Negative
360	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Gutter	Metal	C	Intact	0.1	Negative
361	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Vent	Metal	C	Intact	0.2	Negative
362	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Overhang	Wood	C	Intact	0.3	Negative
363	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Overhang	Wood	C	Intact	0.3	Negative
364	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Overhang beam	Wood	C	Intact	0.3	Negative
365	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Overhang beam	Wood	C	Intact	-0.2	Negative

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Concentration	Result
366	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Overhang rafter	Wood	C	Intact	0.2	Negative
367	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Overhang rafter	Wood	C	Intact	-0.1	Negative
368	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Conduit	Metal	C	Intact	0	Negative
369	**5/20/21**	**Classroom Building (Rooms 6 Through 12)**	**Exterior**	**Conduit**	**Metal**	**C**	**Intact**	**0.7**	**Positive**
370	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Conduit	Metal	C	Intact	0.1	Negative
371	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Overhang	Wood	C	Intact	0.3	Negative
372	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Overhang	Wood	C	Intact	0.3	Negative
373	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Overhang	Wood	C	Intact	0.1	Negative
374	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Overhang beam	Wood	C	Intact	0.6	Negative
375	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Overhang beam	Wood	C	Intact	0.6	Negative
376	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Overhang beam	Wood	C	Intact	0.3	Negative
377	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Overhang beam	Wood	C	Intact	0.4	Negative
378	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Overhang beam	Wood	C	Intact	0.2	Negative
379	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Overhang beam	Wood	C	Intact	-0.1	Negative
380	**5/20/21**	**Classroom Building (Rooms 6 Through 12)**	**Exterior**	**Overhang beam**	**Wood**	**C**	**Intact**	**0.7**	**Positive**
381	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Overhang rafter	Wood	C	Intact	0.4	Negative

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Concentration	Result
382	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Overhang rafter	Wood	C	Intact	0.3	Negative
383	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Overhang rafter	Wood	C	Intact	0.2	Negative
384	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Overhang rafter	Wood	C	Intact	0.2	Negative
385	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Overhang	Wood	C	Intact	0	Negative
386	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Overhang	Wood	C	Intact	0.1	Negative
387	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Overhang	Wood	C	Intact	0.1	Negative
388	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Overhang	Wood	C	Intact	-0.1	Negative
389	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Overhang	Wood	C	Intact	0.2	Negative
390	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Overhang	Wood	C	Intact	0.2	Negative
391	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Overhang	Wood	C	Intact	0.2	Negative
392	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Overhang rafter	Wood	C	Intact	0.4	Negative
393	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Overhang rafter	Wood	C	Intact	0	Negative
394	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Overhang	Wood	C	Intact	-0.1	Negative
395	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Overhang	Wood	C	Intact	-0.1	Negative
396	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Overhang	Wood	C	Intact	0	Negative
397	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Fascia	Wood	C	Intact	0.5	Negative

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Concentration	Result
398	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Fascia	Wood	C	Intact	0.5	Negative
399	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Fascia	Wood	C	Intact	0.4	Negative
400	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Fascia	Wood	C	Intact	0.4	Negative
401	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Drip edge	Metal	C	Intact	0.2	Negative
402	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Drip edge	Metal	C	Intact	0.1	Negative
403	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Gutter	Metal	C	Intact	0	Negative
404	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Fascia	Wood	B	Intact	0	Negative
405	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Fascia	Wood	B	Intact	-0.1	Negative
406	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Drip edge	Metal	B	Intact	0.2	Negative
407	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Overhang	Wood	A	Intact	0.3	Negative
408	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Overhang rafter	Wood	A	Intact	0.2	Negative
409	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Fascia	Wood	A	Intact	0.5	Negative
410	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Fascia	Wood	A	Intact	0.5	Negative
411	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Fascia	Wood	A	Intact	0.7	Negative
412	**5/20/21**	**Classroom Building (Rooms 6 Through 12)**	**Exterior**	**Fascia**	**Wood**	**A**	**Intact**	**0.7**	**Positive**
413	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Overhang	Wood	A	Intact	0.1	Negative

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Concentration	Result
414	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Conduit	Metal	A	Intact	0.2	Negative
415	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Overhang rafter	Wood	A	Intact	-0.4	Negative
416	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Overhang	Wood	A	Intact	0.1	Negative
417	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Overhang rafter	Wood	A	Intact	-0.1	Negative
418	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Vent	Metal	A	Intact	-0.3	Negative
419	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Overhang	Wood	A	Intact	0.1	Negative
420	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Overhang	Wood	A	Intact	0.1	Negative
421	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Overhang	Wood	A	Intact	0.2	Negative
422	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Overhang	Wood	D	Intact	0.3	Negative
423	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Overhang	Wood	D	Intact	0.2	Negative
424	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Overhang	Wood	D	Intact	0.2	Negative
425	5/20/21	Classroom Building (Rooms 6 Through 12)	Exterior	Overhang	Wood	D	Intact	0.1	Negative
426	5/20/21			Calibrate				1	Positive
427	5/20/21			Calibrate				1	Positive
428	5/20/21			Calibrate				0.9	Positive
429	5/20/21	Classroom Building (Rooms 13 Through 16)	Exterior	Wall	Stucco	A	Intact	-0.2	Negative
430	5/20/21	Classroom Building (Rooms 13 Through 16)	Exterior	Wall	Stucco	A	Intact	0.1	Negative
431	5/20/21	Classroom Building (Rooms 13 Through 16)	Exterior	Door	Wood	A	Intact	0	Negative

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Concentration	Result
432	5/20/21	Classroom Building (Rooms 13 Through 16)	Exterior	Door frame	Metal	A	Intact	0	Negative
433	5/20/21	Classroom Building (Rooms 13 Through 16)	Exterior	Door frame	Metal	A	Intact	0.2	Negative
434	5/20/21	Classroom Building (Rooms 13 Through 16)	Exterior	Door frame trim	Metal	A	Intact	0.2	Negative
435	5/20/21	Classroom Building (Rooms 13 Through 16)	Exterior	Door	Wood	A	Intact	-0.3	Negative
436	5/20/21	Classroom Building (Rooms 13 Through 16)	Exterior	Door	Wood	A	Intact	0.3	Negative
437	5/20/21	Classroom Building (Rooms 13 Through 16)	Exterior	Door frame	Wood	A	Intact	0.3	Negative
438	5/20/21	Classroom Building (Rooms 13 Through 16)	Exterior	Door frame	Wood	A	Intact	0.4	Negative
439	5/20/21	Classroom Building (Rooms 13 Through 16)	Exterior	Door frame	Wood	A	Intact	0.2	Negative
440	5/20/21	Classroom Building (Rooms 13 Through 16)	Exterior	Door	Wood	A	Intact	0.3	Negative
441	5/20/21	Classroom Building (Rooms 13 Through 16)	Exterior	Downspout	Metal	A	Intact	0.3	Negative
442	5/20/21	Classroom Building (Rooms 13 Through 16)	Exterior	Downspout	Metal	A	Intact	0.3	Negative
443	5/20/21	Classroom Building (Rooms 13 Through 16)	Exterior	Downspout	Metal	A	Intact	0.4	Negative
444	5/20/21	Classroom Building (Rooms 13 Through 16)	Exterior	Downspout	Metal	A	Intact	0.4	Negative
445	5/20/21	Classroom Building (Rooms 13 Through 16)	Exterior	Wall	Stucco	B	Intact	-0.1	Negative
446	5/20/21	Classroom Building (Rooms 13 Through 16)	Exterior	Wall	Stucco	B	Intact	-0.1	Negative
447	5/20/21	Classroom Building (Rooms 13 Through 16)	Exterior	Conduit	Metal	B	Intact	0.2	Negative

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Concentration	Result
448	5/20/21	Classroom Building (Rooms 13 Through 16)	Exterior	Wall	Stucco	C	Intact	0.1	Negative
449	5/20/21	Classroom Building (Rooms 13 Through 16)	Exterior	Wall	Stucco	C	Intact	-0.1	Negative
450	5/20/21	Classroom Building (Rooms 13 Through 16)	Exterior	Door	Wood	C	Intact	0.1	Negative
451	5/20/21	Classroom Building (Rooms 13 Through 16)	Exterior	Door frame	Wood	C	Intact	0.1	Negative
452	5/20/21	Classroom Building (Rooms 13 Through 16)	Exterior	Door frame	Wood	C	Intact	0.1	Negative
453	5/20/21	Classroom Building (Rooms 13 Through 16)	Exterior	Door	Wood	C	Intact	0.2	Negative
454	5/20/21	Classroom Building (Rooms 13 Through 16)	Exterior	Door	Wood	C	Intact	0.2	Negative
455	5/20/21	Classroom Building (Rooms 13 Through 16)	Exterior	Door frame	Wood	C	Intact	0.6	Negative
456	5/20/21	Classroom Building (Rooms 13 Through 16)	Exterior	Door frame	Wood	C	Intact	0.2	Negative
457	5/20/21	Classroom Building (Rooms 13 Through 16)	Exterior	Door	Wood	C	Intact	0.1	Negative
458	5/20/21	Classroom Building (Rooms 13 Through 16)	Exterior	Wall	Stucco	C	Intact	0.1	Negative
459	5/20/21	Classroom Building (Rooms 13 Through 16)	Exterior	Window sill	Wood	C	Intact	0.7	Negative
460	5/20/21	Classroom Building (Rooms 13 Through 16)	Exterior	Window sill	Wood	C	Intact	0.6	Negative
461	5/20/21	Classroom Building (Rooms 13 Through 16)	Exterior	Window sill	Wood	C	Intact	0.4	Negative
462	5/20/21	Classroom Building (Rooms 13 Through 16)	Exterior	Window sill	Wood	C	Intact	0.5	Negative
463	5/20/21	Classroom Building (Rooms 13 Through 16)	Exterior	Window sill	Wood	C	Intact	0.6	Negative

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Concentration	Result
464	5/20/21	Classroom Building (Rooms 13 Through 16)	Exterior	Window sill	Wood	C	Intact	0.3	Negative
465	**5/20/21**	**Classroom Building (Rooms 13 Through 16)**	**Exterior**	**Window sash**	**Wood**	**C**	**Intact**	**0.7**	**Positive**
466	5/20/21	Classroom Building (Rooms 13 Through 16)	Exterior	Window frame	Wood	C	Intact	0.2	Negative
467	5/20/21	Classroom Building (Rooms 13 Through 16)	Exterior	Window frame	Wood	C	Intact	0.3	Negative
468	5/20/21	Classroom Building (Rooms 13 Through 16)	Exterior	Window frame	Wood	C	Intact	0.4	Negative
469	5/20/21	Classroom Building (Rooms 13 Through 16)	Exterior	Window casing	Wood	C	Intact	0.6	Negative
470	5/20/21	Classroom Building (Rooms 13 Through 16)	Exterior	Window casing	Wood	C	Intact	0.6	Negative
471	5/20/21	Classroom Building (Rooms 13 Through 16)	Exterior	Window casing	Wood	C	Intact	0.5	Negative
472	5/20/21	Classroom Building (Rooms 13 Through 16)	Exterior	Window casing	Wood	C	Intact	0.3	Negative
473	5/20/21	Classroom Building (Rooms 13 Through 16)	Exterior	Window sill	Wood	C	Intact	0.4	Negative
474	5/20/21	Classroom Building (Rooms 13 Through 16)	Exterior	Window sill	Wood	C	Intact	0.7	Negative
475	5/20/21	Classroom Building (Rooms 13 Through 16)	Exterior	Window sill	Wood	C	Intact	0.6	Negative
476	5/20/21	Classroom Building (Rooms 13 Through 16)	Exterior	Window sill	Wood	C	Intact	0.4	Negative
477	5/20/21	Classroom Building (Rooms 13 Through 16)	Exterior	Window sill	Wood	C	Intact	0.6	Negative
478	**5/20/21**	**Classroom Building (Rooms 13 Through 16)**	**Exterior**	**Window sill**	**Wood**	**C**	**Intact**	**1.1**	**Positive**
479	5/20/21	Classroom Building (Rooms 13 Through 16)	Exterior	Window frame	Wood	C	Intact	0.3	Negative

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Concentration	Result
480	5/20/21	Classroom Building (Rooms 13 Through 16)	Exterior	Window frame	Wood	C	Intact	0.2	Negative
481	5/20/21	Classroom Building (Rooms 13 Through 16)	Exterior	Window frame	Wood	C	Intact	0.1	Negative
482	5/20/21	Classroom Building (Rooms 13 Through 16)	Exterior	Window frame	Wood	C	Intact	0.3	Negative
483	5/20/21	Classroom Building (Rooms 13 Through 16)	Exterior	Window frame	Wood	C	Intact	0.2	Negative
484	5/20/21	Classroom Building (Rooms 13 Through 16)	Exterior	Window frame	Wood	C	Intact	0.4	Negative
485	5/20/21	Classroom Building (Rooms 13 Through 16)	Exterior	Window frame	Wood	C	Intact	0.1	Negative
486	5/20/21	Classroom Building (Rooms 13 Through 16)	Exterior	Window frame	Wood	C	Intact	0.1	Negative
487	5/20/21	Classroom Building (Rooms 13 Through 16)	Exterior	Window casing	Wood	C	Intact	0	Negative
488	5/20/21	Classroom Building (Rooms 13 Through 16)	Exterior	Window casing	Wood	C	Intact	0.2	Negative
489	5/20/21	Classroom Building (Rooms 13 Through 16)	Exterior	Window casing	Wood	C	Intact	0.3	Negative
490	5/20/21	Classroom Building (Rooms 13 Through 16)	Exterior	Window casing	Wood	C	Intact	0.4	Negative
491	5/20/21	Classroom Building (Rooms 13 Through 16)	Exterior	Window casing	Wood	C	Intact	0.2	Negative
492	5/20/21	Classroom Building (Rooms 13 Through 16)	Exterior	Window casing	Wood	C	Intact	0.3	Negative
493	5/20/21	Classroom Building (Rooms 13 Through 16)	Exterior	Wall	Stucco	C	Intact	0	Negative
494	5/20/21	Classroom Building (Rooms 13 Through 16)	Exterior	Wall	Stucco	D	Intact	-0.2	Negative
495	5/20/21	Classroom Building (Rooms 13 Through 16)	Exterior	Wall	Stucco	D	Intact	0	Negative

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Concentration	Result
496	**5/20/21**	**Classroom Building (Rooms 13 Through 16)**	**Exterior**	**Overhang**	**Wood**	**A**	**Intact**	**0.7**	**Positive**
497	5/20/21	Classroom Building (Rooms 13 Through 16)	Exterior	Overhang rafter	Wood	A	Intact	0.3	Negative
498	5/20/21	Classroom Building (Rooms 13 Through 16)	Exterior	Fascia	Wood	A	Intact	0.4	Negative
499	5/20/21	Classroom Building (Rooms 13 Through 16)	Exterior	Gutter	Metal	A	Intact	0.2	Negative
500	**5/20/21**	**Classroom Building (Rooms 13 Through 16)**	**Exterior**	**Window casing**	**Wood**	**A**	**Intact**	**0.8**	**Positive**
501	5/20/21	Classroom Building (Rooms 13 Through 16)	Exterior	Window flashing	Metal	A	Intact	0.5	Negative
502	5/20/21	Classroom Building (Rooms 13 Through 16)	Exterior	Gutter	Metal	A	Intact	0	Negative
503	5/20/21	Classroom Building (Rooms 13 Through 16)	Exterior	Drip edge	Metal	D	Intact	0.3	Negative
504	5/20/21	Classroom Building (Rooms 13 Through 16)	Exterior	Fascia	Wood	D	Peeling	0.3	Negative
505	5/20/21	Classroom Building (Rooms 13 Through 16)	Exterior	Overhang beam	Wood	C	Intact	0.4	Negative
506	5/20/21	Classroom Building (Rooms 13 Through 16)	Exterior	Overhang beam	Wood	C	Intact	0.1	Negative
507	**5/20/21**	**Classroom Building (Rooms 13 Through 16)**	**Exterior**	**Overhang rafter**	**Wood**	**C**	**Intact**	**1.4**	**Positive**
508	5/20/21	Classroom Building (Rooms 13 Through 16)	Exterior	Gutter	Metal	C	Intact	0	Negative
509	5/20/21	Classroom Building (Rooms 13 Through 16)	Exterior	Gutter	Metal	C	Intact	-0.1	Negative
510	5/20/21	Classroom Building (Rooms 13 Through 16)	Exterior	Fascia	Wood	C	Intact	0.4	Negative
511	5/20/21	Classroom Building (Rooms 13 Through 16)	Exterior	Fascia	Wood	C	Intact	0.1	Negative

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Concentration	Result
512	**5/20/21**	**Classroom Building (Rooms 13 Through 16)**	**Exterior**	**Overhang beam**	**Wood**	**C**	**Intact**	**0.8**	**Positive**
513	5/20/21	Classroom Building (Rooms 13 Through 16)	Exterior	Conduit	Metal	C	Intact	0.2	Negative
514	5/20/21	Classroom Building (Rooms 13 Through 16)	Exterior	Conduit	Metal	C	Intact	0.1	Negative
515	5/20/21	Classroom Building (Rooms 13 Through 16)	Exterior	Conduit	Metal	C	Intact	0.3	Negative
516	5/20/21	Classroom Building (Rooms 13 Through 16)	Exterior	Conduit	Metal	C	Intact	0.1	Negative
517	5/20/21	Classroom Building (Rooms 13 Through 16)	Exterior	Window flashing	Metal	C	Intact	0.5	Negative
518	5/20/21	Classroom Building (Rooms 13 Through 16)	Exterior	Fascia	Wood	C	Intact	0	Negative
519	5/20/21	Classroom Building (Rooms 13 Through 16)	Exterior	Table	Wood	C	Intact	-0.1	Negative
520	5/20/21	Classroom Building (Rooms 13 Through 16)	Exterior	Table	Wood	C	Intact	-0.2	Negative
521	5/20/21	Classroom Building (Rooms 13 Through 16)	Exterior	Table	Wood	C	Intact	-0.2	Negative
522	5/20/21	Classroom Building (Rooms 13 Through 16)	Exterior	Table	Wood	C	Intact	-0.3	Negative
523	**5/20/21**	**Classroom Building (Rooms 13 Through 16)**	**Exterior**	**Fascia**	**Wood**	**C**	**Intact**	**0.7**	**Positive**
524	5/20/21	Classroom Building (Rooms 13 Through 16)	Exterior	Floor stripe	Concrete	C	Intact	0.2	Negative
525	5/20/21	Classroom Building (Rooms 13 Through 16)	Exterior	Floor stripe	Concrete	C	Intact	0.1	Negative
526	**5/20/21**	**Classroom Building (Rooms 13 Through 16)**	**Exterior**	**Floor stripe**	**Concrete**	**C**	**Intact**	**1.1**	**Positive**
527	5/20/21	Classroom Building (Rooms 13 Through 16)	Exterior	Downspout	Metal	C	Intact	0.5	Negative

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Concentration	Result
528	5/20/21	Classroom Building (Rooms 13 Through 16)	Exterior	Gutter	Concrete	C	Intact	0.3	Negative
529	5/20/21	Classroom Building (Rooms 13 Through 16)	Exterior	Gutter	Concrete	C	Intact	0	Negative
530	5/20/21	Classroom Building (Rooms 13 Through 16)	Exterior	Gutter	Concrete	C	Intact	0.1	Negative
531	5/20/21	Classroom Building (Rooms 13 Through 16)	Breezeway	Ceiling	Stucco	Upper	Intact	-0.1	Negative
532	5/20/21	Classroom Building (Rooms 13 Through 16)	Breezeway	Ceiling	Stucco	Upper	Intact	-0.1	Negative
533	5/20/21	Classroom Building (Rooms 13 Through 16)	Exterior	Drinking fountain	Porcelain	C	Intact	-0.2	Negative
534	**5/20/21**	**Classroom Building (Rooms 13 Through 16)**	**Exterior**	**Drinking fountain**	**Porcelain**	**C**	**Intact**	**36**	**Positive**
535	5/20/21	Classroom Building (Rooms 13 Through 16)	Exterior	Drinking fountain	Porcelain	C	Intact	-0.4	Negative
536	5/20/21	Classroom Building (Rooms 13 Through 16)	Exterior	Drinking fountain	Porcelain	C	Intact	-0.3	Negative
537	5/20/21	Classroom Building (Rooms 13 Through 16)	Exterior	Electrical panel	Metal	B	Intact	0	Negative
538	5/20/21	Classroom Building (Rooms 13 Through 16)	Exterior	Electrical panel	Metal	B	Intact	0.1	Negative
539	5/20/21	Classroom Building (Rooms 13 Through 16)	Exterior	Electrical panel	Metal	B	Intact	0.1	Negative
540	5/20/21	Classroom Building (Rooms 13 Through 16)	Exterior	Electrical panel	Metal	B	Intact	0.1	Negative
541	5/20/21			Calibrate				1	Positive
542	5/20/21			Calibrate				0.9	Positive
543	5/20/21			Calibrate				1	Positive
544	5/20/21			Calibrate				0.9	Positive
545	5/20/21	Multi-Purpose Building	Exterior	Wall	Stucco	B	Intact	-0.2	Negative
546	5/20/21	Multi-Purpose Building	Exterior	Door	Metal	B	Intact	0	Negative
547	5/20/21	Multi-Purpose Building	Exterior	Door frame	Metal	B	Intact	0	Negative

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Concentration	Result
548	5/20/21	Multi-Purpose Building	Exterior	Door frame	Metal	B	Intact	-0.1	Negative
549	5/20/21	Multi-Purpose Building	Exterior	Door	Metal	B	Intact	-0.1	Negative
550	5/20/21	Multi-Purpose Building	Exterior	Door	Metal	B	Intact	0	Negative
551	5/20/21	Multi-Purpose Building	Exterior	Door frame	Metal	B	Intact	0	Negative
552	5/20/21	Multi-Purpose Building	Exterior	Door frame	Metal	B	Intact	-0.1	Negative
553	5/20/21	Multi-Purpose Building	Exterior	Door	Metal	B	Intact	0	Negative
554	5/20/21	Multi-Purpose Building	Exterior	Overhang	Stucco	B	Intact	-0.3	Negative
555	5/20/21	Multi-Purpose Building	Exterior	Overhang	Stucco	B	Intact	-0.4	Negative
556	5/20/21	Multi-Purpose Building	Exterior	Wall	Stucco	C	Intact	0	Negative
557	5/20/21	Multi-Purpose Building	Exterior	Wall	Stucco	C	Intact	-0.1	Negative
558	5/20/21	Multi-Purpose Building	Exterior	Conduit	Metal	C	Intact	0	Negative
559	5/20/21	Multi-Purpose Building	Exterior	Conduit	Metal	C	Intact	0.2	Negative
560	5/20/21	Multi-Purpose Building	Exterior	Pipe	Metal	C	Intact	0.1	Negative
561	5/20/21	Multi-Purpose Building	Exterior	Pipe	Metal	C	Intact	0.1	Negative
562	5/20/21	Multi-Purpose Building	Exterior	Pipe	Metal	C	Intact	0.2	Negative
563	5/20/21	Multi-Purpose Building	Exterior	Gutter	Metal	C	Intact	0.2	Negative
564	5/20/21	Multi-Purpose Building	Exterior	Gutter	Metal	C	Intact	0.1	Negative
565	5/20/21	Multi-Purpose Building	Exterior	Drip edge	Metal	C	Intact	0	Negative
566	5/20/21	Multi-Purpose Building	Exterior	Drip edge	Metal	C	Intact	-0.1	Negative
567	5/20/21	Multi-Purpose Building	Exterior	Door	Metal	D	Intact	0	Negative
568	5/20/21	Multi-Purpose Building	Exterior	Door frame	Metal	D	Intact	0.1	Negative
569	5/20/21	Multi-Purpose Building	Exterior	Door frame	Metal	D	Intact	0	Negative
570	5/20/21	Multi-Purpose Building	Exterior	Door	Metal	D	Intact	0	Negative
571	5/20/21	Multi-Purpose Building	Exterior	Wall	Stucco	D	Intact	0	Negative
572	5/20/21	Multi-Purpose Building	Exterior	Wall	Stucco	D	Intact	0	Negative
573	5/20/21	Multi-Purpose Building	Exterior	Conduit	Metal	D	Intact	0.1	Negative
574	5/20/21	Multi-Purpose Building	Exterior	Conduit	Metal	D	Intact	0	Negative
575	5/20/21	Multi-Purpose Building	Exterior	Downspout	Metal	D	Intact	0.3	Negative
576	5/20/21	Multi-Purpose Building	Exterior	Downspout	Metal	D	Intact	0.2	Negative
577	5/20/21	Multi-Purpose Building	Exterior	Downspout	Metal	D	Intact	0.1	Negative
578	5/20/21	Multi-Purpose Building	Exterior	Overhang	Stucco	D	Intact	-0.3	Negative
579	5/20/21	Multi-Purpose Building	Exterior	Fascia	Wood	D	Intact	-0.4	Negative
580	5/20/21	Multi-Purpose Building	Exterior	Gutter	Metal	D	Intact	-0.1	Negative

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Concentration	Result
581	5/20/21	Multi-Purpose Building	Exterior	Gutter	Metal	D	Intact	0	Negative
582	5/20/21	Multi-Purpose Building	Exterior	Overhang beam	Wood	D	Intact	0.4	Negative
583	5/20/21	Multi-Purpose Building	Exterior	Overhang beam	Wood	D	Intact	0.2	Negative
584	5/20/21	Multi-Purpose Building	Exterior	Conduit	Metal	D	Intact	0	Negative
585	5/20/21	Multi-Purpose Building	Exterior	Conduit	Metal	D	Intact	0	Negative
586	5/20/21	Multi-Purpose Building	Exterior	Conduit	Metal	D	Intact	0.3	Negative
587	5/20/21	Multi-Purpose Building	Exterior	Wall	Stucco	A	Intact	-0.1	Negative
588	5/20/21	Multi-Purpose Building	Exterior	Gate	Metal	A	Intact	0.1	Negative
589	5/20/21	Multi-Purpose Building	Exterior	Gate	Metal	A	Intact	0.1	Negative
590	5/20/21	Multi-Purpose Building	Exterior	Wall	Brick	A	Intact	-0.1	Negative
591	5/20/21	Multi-Purpose Building	Exterior	Window frame	Wood	A	Intact	-0.2	Negative
592	5/20/21	Multi-Purpose Building	Exterior	Window frame	Wood	A	Intact	-0.2	Negative
593	5/20/21	Multi-Purpose Building	Exterior	Window frame	Wood	A	Intact	-0.1	Negative
594	5/20/21	Multi-Purpose Building	Exterior	Window frame	Wood	A	Intact	-0.2	Negative
595	5/20/21	Multi-Purpose Building	Exterior	Window flashing	Metal	A	Intact	0	Negative
596	5/20/21	Multi-Purpose Building	Exterior	Bench	Wood	A	Intact	-0.1	Negative
597	5/20/21	Multi-Purpose Building	Exterior	Bench	Wood	A	Intact	-0.2	Negative
598	5/20/21	Multi-Purpose Building	Exterior	Wall	Stucco	B	Intact	-0.1	Negative
599	5/20/21	Multi-Purpose Building	Exterior	Door	Metal	B	Intact	-0.1	Negative
600	5/20/21	Multi-Purpose Building	Exterior	Door frame	Metal	B	Intact	0	Negative
601	5/20/21	Multi-Purpose Building	Exterior	Floor stripe	Concrete	B	Intact	0.2	Negative
602	5/20/21	Multi-Purpose Building	Exterior	Floor stripe	Concrete	B	Intact	0.1	Negative
603	5/20/21	Multi-Purpose Building	Exterior	Gate	Metal	B	Intact	0.1	Negative
604	5/20/21	Multi-Purpose Building	Exterior	Gate	Metal	B	Intact	0	Negative
605	5/20/21	Multi-Purpose Building	Exterior	Fascia	Wood	B	Intact	-0.3	Negative
606	5/20/21	Multi-Purpose Building	Exterior	Fascia	Wood	C	Intact	0	Negative
607	5/20/21	Multi-Purpose Building	Exterior	Drip edge	Metal	C	Intact	0.3	Negative
608	5/20/21	Multi-Purpose Building	Exterior	Drip edge	Metal	B	Intact	0.2	Negative
609	5/20/21	Multi-Purpose Building	Exterior	Overhang	Stucco	B	Intact	0.1	Negative
610	5/20/21	Multi-Purpose Building	Exterior	Roof ladder	Metal	Roof	Intact	0.1	Negative
611	5/20/21	Multi-Purpose Building	Exterior	Conduit	Metal	B	Intact	0.3	Negative
612	5/20/21	Multi-Purpose Building	Exterior	Gutter	Metal	B	Intact	0.1	Negative
613	5/20/21	Multi-Purpose Building	Exterior	Flashing	Metal	Roof	Intact	-0.1	Negative

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Concentration	Result
614	5/20/21	Multi-Purpose Building	Exterior	Vent	Metal	B	Intact	0.2	Negative
615	5/20/21	Multi-Purpose Building	Exterior	Wall	Stucco	C	Intact	0.1	Negative
616	5/20/21	Multi-Purpose Building	Exterior	Overhang beam	Wood	B	Intact	0.3	Negative
617	5/20/21	Multi-Purpose Building	Exterior	Overhang beam	Wood	B	Intact	0.5	Negative
618	5/20/21	Multi-Purpose Building	Exterior	Conduit	Metal	B	Intact	0.1	Negative
619	5/20/21	Multi-Purpose Building	Exterior	Conduit	Metal	B	Intact	0.2	Negative
620	5/20/21	Multi-Purpose Building	Exterior	Conduit	Metal	B	Intact	0.3	Negative
621	5/20/21	Multi-Purpose Building	Exterior	Window screen frame	Wood	D	Intact	-0.1	Negative
622	5/20/21	Multi-Purpose Building	Exterior	Window sill	Wood	D	Intact	-0.2	Negative
623	5/20/21	Multi-Purpose Building	Exterior	Window casing	Wood	D	Intact	0	Negative
624	5/20/21	Multi-Purpose Building	Exterior	Window flashing	Metal	D	Intact	0.2	Negative
625	5/20/21	Multi-Purpose Building	Exterior	Pipe	Metal	D	Intact	0	Negative
626	5/20/21	Multi-Purpose Building	Exterior	Downspout	Metal	D	Intact	-0.1	Negative
627	5/20/21	Multi-Purpose Building	Exterior	Overhang beam	Wood	D	Intact	0.3	Negative
628	5/20/21	Multi-Purpose Building	Exterior	Vent	Metal	D	Intact	0.3	Negative
629	5/20/21	Classroom Building (Rooms 33 Through 35)	Exterior	Wall	Stucco	A	Intact	-0.1	Negative
630	5/20/21	Classroom Building (Rooms 33 Through 35)	Exterior	Wall	Stucco	B	Intact	-0.1	Negative
631	5/20/21	Classroom Building (Rooms 33 Through 35)	Exterior	Window frame	Metal	B	Intact	-0.1	Negative
632	5/20/21	Classroom Building (Rooms 33 Through 35)	Exterior	Window frame	Metal	B	Intact	0.1	Negative
633	5/20/21	Classroom Building (Rooms 33 Through 35)	Exterior	Window frame	Metal	B	Intact	0.1	Negative
634	5/20/21	Classroom Building (Rooms 33 Through 35)	Exterior	Window panel	Metal	B	Intact	0	Negative
635	5/20/21	Classroom Building (Rooms 33 Through 35)	Exterior	Window panel	Metal	B	Intact	0	Negative
636	5/20/21	Classroom Building (Rooms 33 Through 35)	Exterior	Window panel	Metal	B	Intact	0	Negative

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Concentration	Result
637	5/20/21	Classroom Building (Rooms 33 Through 35)	Exterior	Door	Metal	B	Intact	-0.1	Negative
638	5/20/21	Classroom Building (Rooms 33 Through 35)	Exterior	Door frame	Metal	B	Intact	-0.1	Negative
639	5/20/21	Classroom Building (Rooms 33 Through 35)	Exterior	Door frame	Metal	B	Intact	0	Negative
640	5/20/21	Classroom Building (Rooms 33 Through 35)	Exterior	Door	Metal	B	Intact	0	Negative
641	5/20/21	Classroom Building (Rooms 33 Through 35)	Exterior	Door	Metal	B	Intact	0	Negative
642	5/20/21	Classroom Building (Rooms 33 Through 35)	Exterior	Door frame	Metal	B	Intact	-0.1	Negative
643	5/20/21			Calibrate				1	Positive
644	5/20/21			Calibrate				1.1	Positive
645	5/20/21			Calibrate				1	Positive
646	5/20/21	Classroom Building (Rooms 33 Through 35)	Exterior	Wall	Stucco	C	Intact	-0.1	Negative
647	5/20/21	Classroom Building (Rooms 33 Through 35)	Exterior	Door	Metal	C	Intact	0.1	Negative
648	5/20/21	Classroom Building (Rooms 33 Through 35)	Exterior	Door	Metal	C	Intact	-0.1	Negative
649	5/20/21	Classroom Building (Rooms 33 Through 35)	Exterior	Door	Metal	C	Intact	0	Negative
650	5/20/21	Classroom Building (Rooms 33 Through 35)	Exterior	Door frame	Metal	C	Intact	0	Negative
651	5/20/21	Classroom Building (Rooms 33 Through 35)	Exterior	Door frame	Metal	C	Intact	-0.1	Negative
652	5/20/21	Classroom Building (Rooms 33 Through 35)	Exterior	Door frame	Metal	C	Intact	0	Negative
653	5/20/21	Classroom Building (Rooms 33 Through 35)	Exterior	Overhang	Stucco	B	Intact	-0.1	Negative
654	5/20/21	Classroom Building (Rooms 33 Through 35)	Exterior	Wall	Stucco	D	Intact	-0.1	Negative

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Concentration	Result
655	5/20/21	Classroom Building (Rooms 33 Through 35)	Exterior	Window frame	Metal	D	Intact	-0.1	Negative
656	5/20/21	Classroom Building (Rooms 33 Through 35)	Exterior	Window frame	Metal	D	Intact	-0.1	Negative
657	5/20/21	Classroom Building (Rooms 33 Through 35)	Exterior	Window frame	Metal	D	Intact	0	Negative
658	5/20/21	Classroom Building (Rooms 33 Through 35)	Exterior	Window panel	Metal	D	Intact	0	Negative
659	5/20/21	Classroom Building (Rooms 33 Through 35)	Exterior	Window panel	Metal	D	Intact	0	Negative
660	5/20/21	Classroom Building (Rooms 33 Through 35)	Exterior	Window panel	Metal	D	Intact	-0.1	Negative
661	5/20/21	Classroom Building (Rooms 33 Through 35)	Exterior	Downspout	Metal	D	Intact	-0.1	Negative
662	5/20/21	Classroom Building (Rooms 33 Through 35)	Exterior	Downspout	Metal	D	Intact	0	Negative
663	5/20/21	Classroom Building (Rooms 33 Through 35)	Exterior	Conduit	Metal	D	Intact	-0.1	Negative
664	5/20/21	Classroom Building (Rooms 33 Through 35)	Exterior	Conduit	Metal	D	Intact	0	Negative
665	5/20/21	Classroom Building (Rooms 33 Through 35)	Exterior	Conduit	Metal	D	Intact	-0.1	Negative
666	5/20/21	Classroom Building (Rooms 33 Through 35)	Exterior	Conduit	Metal	D	Intact	-0.1	Negative
667	5/20/21	Classroom Building (Rooms 33 Through 35)	Exterior	Conduit	Metal	D	Intact	0	Negative
668	5/20/21	Classroom Building (Rooms 33 Through 35)	Exterior	Conduit	Metal	D	Intact	-0.1	Negative
669	5/20/21	Classroom Building (Rooms 33 Through 35)	Exterior	Conduit	Metal	D	Intact	0	Negative
670	5/20/21	Classroom Building (Rooms 33 Through 35)	Exterior	Conduit	Metal	D	Intact	-0.1	Negative

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Concentration	Result
671	5/20/21	Classroom Building (Rooms 33 Through 35)	Exterior	Conduit	Metal	D	Intact	-0.1	Negative
672	5/20/21	Classroom Building (Rooms 33 Through 35)	Exterior	Conduit	Metal	D	Intact	0	Negative
673	5/20/21	Classroom Building (Rooms 33 Through 35)	Exterior	Conduit	Metal	A	Intact	-0.1	Negative
674	5/20/21	Classroom Building (Rooms 33 Through 35)	Exterior	Conduit	Metal	A	Intact	0	Negative
675	5/20/21	Classroom Building (Rooms 33 Through 35)	Exterior	Drip edge	Metal	B	Intact	-0.2	Negative
676	5/20/21	Classroom Building (Room 36)	Exterior	Drip edge	Metal	A	Intact	0.2	Negative
677	5/20/21	Classroom Building (Room 36)	Exterior	Wall	Stucco	A	Intact	0	Negative
678	5/20/21	Classroom Building (Room 36)	Exterior	Wall	Stucco	B	Intact	0	Negative
679	5/20/21	Classroom Building (Room 36)	Exterior	Wall	Stucco	C	Intact	0	Negative
680	5/20/21	Classroom Building (Room 36)	Exterior	Wall tile	Ceramic	C	Intact	-0.1	Negative
681	5/20/21	Classroom Building (Room 36)	Exterior	Door	Metal	B	Intact	0.1	Negative
682	5/20/21	Classroom Building (Room 36)	Exterior	Door frame	Metal	B	Intact	0	Negative
683	5/20/21	Classroom Building (Room 36)	Exterior	Wall	Stucco	B	Intact	-0.1	Negative
684	5/20/21	Classroom Building (Room 36)	Exterior	Downspout	Metal	C	Intact	0.1	Negative
685	5/20/21	Classroom Building (Room 36)	Exterior	Overhang	Stucco	B	Intact	0	Negative
686	5/20/21	Classroom Building (Room 36)	Exterior	Wall	Stucco	D	Intact	-0.1	Negative

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Concentration	Result
687	5/20/21	Classroom Building (Room 36)	Exterior	Door	Metal	D	Intact	-0.1	Negative
688	5/20/21	Classroom Building (Room 36)	Exterior	Door frame	Metal	D	Intact	0	Negative
689	5/20/21	Classroom Building (Room 36)	Exterior	Window frame	Metal	D	Intact	-0.1	Negative
690	5/20/21	Classroom Building (Room 36)	Exterior	Window frame	Metal	D	Intact	-0.1	Negative
691	5/20/21	Classroom Building (Room 36)	Exterior	Window panel	Metal	D	Intact	0	Negative
692	5/20/21	Classroom Building (Room 36)	Exterior	Window panel	Metal	D	Intact	0	Negative
693	5/20/21	Classroom Building (Room 36)	Exterior	Conduit	Metal	A	Intact	0.1	Negative
694	5/20/21	Classroom Building (Room 36)	Exterior	Conduit	Metal	A	Intact	0	Negative
695	5/20/21	Classroom Building (Room 36)	Exterior	Conduit	Metal	A	Intact	0	Negative
696	5/20/21	Classroom Building (Room 36)	Exterior	Conduit	Metal	A	Intact	-0.1	Negative
697	5/20/21			Calibrate				1	Positive
698	5/20/21			Calibrate				1	Positive
699	5/20/21			Calibrate				1	Positive
700	5/20/21			Calibrate				1.2	Positive
701	5/24/21			Calibrate				1	Positive
702	5/24/21			Calibrate				0.9	Positive
703	5/24/21			Calibrate				0.9	Positive
704	5/24/21			Calibrate				0.9	Positive
705	5/24/21	Portable Room 5	Exterior	Wall	Wood	C	Intact	0	Negative
706	5/24/21	Portable Room 5	Exterior	Building frame	Metal	C	Intact	0	Negative
707	5/24/21	Portable Room 5	Exterior	Door	Metal	C	Intact	-0.1	Negative
708	5/24/21	Portable Room 5	Exterior	Door frame	Metal	C	Intact	0	Negative
709	5/24/21	Portable Room 5	Exterior	Door frame trim	Wood	C	Intact	0	Negative

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Concentration	Result
710	5/24/21	Portable Room 5	Exterior	Wall	Wood	B	Intact	-0.1	Negative
711	5/24/21	Portable Room 5	Exterior	Wall	Wood	A	Intact	0	Negative
712	5/24/21	Portable Room 5	Exterior	Building frame	Metal	A	Intact	0.1	Negative
713	5/24/21	Portable Room 5	Exterior	Conduit	Metal	A	Intact	0.1	Negative
714	5/24/21	Portable Room 5	Exterior	Conduit	Metal	A	Intact	-0.1	Negative
715	5/24/21	Portable Room 5	Exterior	Conduit	Metal	A	Intact	-0.1	Negative
716	5/24/21	Portable Room 5	Exterior	Conduit	Metal	A	Intact	0.1	Negative
717	5/24/21	Portable Room 5	Exterior	Electrical box	Metal	A	Intact	0	Negative
718	5/24/21	Portable Room 5	Exterior	HVAC unit	Metal	A	Intact	0	Negative
719	5/24/21	Portable Room 5	Exterior	Downspout	Metal	A	Intact	0	Negative
720	5/24/21	Portable Room 5	Exterior	Overhang	Wood	C	Intact	-0.1	Negative
721	5/24/21	Portable Room 5	Exterior	Fascia	Metal	B	Intact	0	Negative
722	5/24/21	Portable Room 5	Exterior	Drip edge	Metal	B	Intact	-0.1	Negative
723	5/24/21	Portable Room 5	Exterior	Fascia	Metal	C	Intact	0	Negative
724	5/24/21	Portable Room 5	Exterior	Gutter	Metal	A	Intact	-0.1	Negative
725	5/24/21	Portable Room 5	Exterior	Fascia	Metal	A	Intact	0	Negative
726	5/24/21	Portable Room 5	Exterior	Overhang	Wood	A	Intact	0.1	Negative
727	5/24/21	Portable Room 5	Exterior	Overhang vent	Metal	A	Intact	-0.1	Negative
728	5/24/21	Portable Room 17	Exterior	Building frame	Metal	C	Intact	0	Negative
729	5/24/21	Portable Room 17	Exterior	Wall	Wood	C	Intact	-0.2	Negative
730	5/24/21	Portable Room 17	Exterior	Door	Metal	C	Intact	0	Negative
731	5/24/21	Portable Room 17	Exterior	Door frame	Metal	C	Intact	0.1	Negative
732	5/24/21	Portable Room 17	Exterior	Door frame trim	Wood	C	Intact	0	Negative
733	5/24/21	Portable Room 17	Exterior	Wall	Wood	A	Intact	0	Negative
734	5/24/21	Portable Room 17	Exterior	Building frame	Metal	A	Intact	0	Negative
735	5/24/21	Portable Room 17	Exterior	Conduit	Metal	A	Intact	-0.1	Negative
736	5/24/21	Portable Room 17	Exterior	Conduit	Metal	A	Intact	0	Negative
737	5/24/21	Portable Room 17	Exterior	Conduit	Metal	A	Intact	0	Negative
738	5/24/21	Portable Room 17	Exterior	Electrical box	Metal	A	Intact	0	Negative
739	5/24/21	Portable Room 17	Exterior	HVAC unit	Metal	A	Intact	0	Negative
740	5/24/21	Portable Room 17	Exterior	Downspout	Metal	A	Intact	-0.1	Negative
741	5/24/21	Portable Room 17	Exterior	Gutter	Metal	A	Intact	0.1	Negative
742	5/24/21	Portable Room 17	Exterior	Fascia	Metal	A	Intact	0	Negative

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Concentration	Result
743	5/24/21	Portable Room 17	Exterior	Overhang	Wood	A	Intact	-0.1	Negative
744	5/24/21	Portable Room 17	Exterior	Overhang vent	Metal	A	Intact	-0.1	Negative
745	5/24/21	Portable Room 17	Exterior	Fascia	Metal	C	Intact	0	Negative
746	5/24/21	Portable Room 17	Exterior	Drip edge	Metal	C	Intact	-0.1	Negative
747	5/24/21	Portable Room 17	Exterior	Overhang	Wood	C	Intact	0	Negative
748	5/24/21	Portable Room 18	Exterior	Wall	Wood	C	Intact	-0.1	Negative
749	5/24/21	Portable Room 18	Exterior	Building frame	Metal	C	Intact	0.1	Negative
750	5/24/21	Portable Room 18	Exterior	Door	Metal	C	Intact	0	Negative
751	5/24/21	Portable Room 18	Exterior	Door frame	Metal	C	Intact	0.1	Negative
752	5/24/21	Portable Room 18	Exterior	Door frame trim	Wood	C	Intact	0	Negative
753	5/24/21	Portable Room 18	Exterior	Overhang	Wood	C	Intact	0	Negative
754	5/24/21	Portable Room 18	Exterior	Overhang vent	Metal	C	Intact	-0.1	Negative
755	5/24/21	Portable Room 18	Exterior	Fascia	Metal	C	Intact	0.1	Negative
756	5/24/21	Portable Room 18	Exterior	Drip edge	Metal	C	Intact	0	Negative
757	5/24/21	Portable Room 18	Exterior	Wall	Wood	A	Intact	-0.2	Negative
758	5/24/21	Portable Room 18	Exterior	Building frame	Metal	A	Intact	0	Negative
759	5/24/21	Portable Room 18	Exterior	Conduit	Metal	A	Intact	0	Negative
760	5/24/21	Portable Room 18	Exterior	Conduit	Metal	A	Intact	-0.1	Negative
761	5/24/21	Portable Room 18	Exterior	Conduit	Metal	A	Intact	0	Negative
762	5/24/21	Portable Room 18	Exterior	Electrical box	Metal	A	Intact	-0.1	Negative
763	5/24/21	Portable Room 18	Exterior	HVAC unit	Metal	A	Intact	-0.1	Negative
764	5/24/21	Portable Room 18	Exterior	Downspout	Metal	A	Intact	0	Negative
765	5/24/21	Portable Room 18	Exterior	Wall	Wood	D	Intact	-0.3	Negative
766	5/24/21	Portable Room 18	Exterior	Building frame	Metal	D	Intact	0.1	Negative
767	5/24/21	Portable Room 18	Exterior	Overhang vent	Metal	A	Intact	0	Negative
768	5/24/21	Portable Room 18	Exterior	Overhang	Wood	A	Intact	0	Negative
769	5/24/21	Portable Room 18	Exterior	Fascia	Metal	A	Intact	0.1	Negative
770	5/24/21	Portable Room 18	Exterior	Gutter	Metal	A	Intact	0	Negative
771	5/24/21	Portable Room 19	Exterior	Wall	Wood	A	Intact	-0.2	Negative
772	5/24/21	Portable Room 19	Exterior	Wall	Wood	B	Intact	-0.1	Negative
773	5/24/21	Portable Room 19	Exterior	Building frame	Metal	A	Intact	0.1	Negative
774	5/24/21	Portable Room 19	Exterior	Conduit	Metal	A	Intact	0	Negative
775	5/24/21	Portable Room 19	Exterior	Conduit	Metal	A	Intact	-0.1	Negative

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Concentration	Result
776	5/24/21	Portable Room 19	Exterior	Electrical box	Metal	A	Intact	0.1	Negative
777	5/24/21	Portable Room 19	Exterior	HVAC unit	Metal	A	Intact	0	Negative
778	5/24/21	Portable Room 19	Exterior	Downspout	Metal	A	Intact	0	Negative
779	5/24/21	Portable Room 19	Exterior	Gutter	Metal	A	Intact	-0.1	Negative
780	5/24/21	Portable Room 19	Exterior	Fascia	Metal	A	Intact	0.1	Negative
781	5/24/21	Portable Room 19	Exterior	Overhang	Wood	A	Intact	0	Negative
782	5/24/21	Portable Room 19	Exterior	Overhang vent	Metal	A	Intact	-0.1	Negative
783	5/24/21	Portable Room 19	Exterior	Wall	Wood	C	Intact	-0.1	Negative
784	5/24/21	Portable Room 19	Exterior	Building frame	Metal	C	Intact	0	Negative
785	5/24/21	Portable Room 19	Exterior	Door	Metal	C	Intact	0	Negative
786	5/24/21	Portable Room 19	Exterior	Door frame	Metal	C	Intact	0	Negative
787	5/24/21	Portable Room 19	Exterior	Door frame trim	Wood	C	Intact	0	Negative
788	5/24/21	Portable Room 19	Exterior	Overhang	Wood	C	Intact	-0.1	Negative
789	5/24/21	Portable Room 19	Exterior	Overhang vent	Metal	C	Intact	0	Negative
790	5/24/21	Portable Room 19	Exterior	Fascia	Metal	C	Intact	0.1	Negative
791	5/24/21	Portable Room 19	Exterior	Drip edge	Metal	C	Intact	-0.1	Negative
792	5/24/21	Portable 20	Exterior	Wall	Wood	C	Intact	-0.1	Negative
793	5/24/21	Portable 20	Exterior	Building frame	Metal	C	Intact	0.1	Negative
794	5/24/21	Portable 20	Exterior	Door	Metal	C	Intact	-0.1	Negative
795	5/24/21	Portable 20	Exterior	Door frame	Metal	C	Intact	0.1	Negative
796	5/24/21	Portable 20	Exterior	Door frame trim	Wood	C	Intact	-0.1	Negative
797	5/24/21	Portable 20	Exterior	Overhang	Wood	C	Intact	-0.1	Negative
798	5/24/21	Portable 20	Exterior	Overhang vent	Metal	C	Intact	0	Negative
799	5/24/21	Portable 20	Exterior	Fascia	Metal	C	Intact	0	Negative
800	5/24/21	Portable 20	Exterior	Drip edge	Metal	C	Intact	0	Negative
801	5/24/21	Portable 20	Exterior	Wall	Wood	A	Intact	-0.2	Negative
802	5/24/21	Portable 20	Exterior	Building frame	Metal	A	Intact	0.1	Negative
803	5/24/21	Portable 20	Exterior	Conduit	Metal	A	Intact	0.1	Negative
804	5/24/21	Portable 20	Exterior	Conduit	Metal	A	Intact	0	Negative
805	5/24/21	Portable 20	Exterior	Conduit	Metal	A	Intact	0	Negative
806	5/24/21	Portable 20	Exterior	Electrical box	Metal	A	Intact	0	Negative
807	5/24/21	Portable 20	Exterior	HVAC unit	Metal	A	Intact	0	Negative
808	5/24/21	Portable 20	Exterior	Downspout	Metal	A	Intact	0	Negative

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Concentration	Result
809	5/24/21	Portable 20	Exterior	Fascia	Metal	A	Intact	0	Negative
810	5/24/21	Portable 20	Exterior	Gutter	Metal	A	Intact	-0.1	Negative
811	5/24/21	Portable 20	Exterior	Overhang	Wood	A	Intact	0	Negative
812	5/24/21	Portable 20	Exterior	Overhang vent	Metal	A	Intact	-0.1	Negative
813	5/24/21	Portable Room 21	Exterior	Wall	Wood	A	Intact	0	Negative
814	5/24/21	Portable Room 21	Exterior	Wall	Wood	D	Intact	-0.1	Negative
815	5/24/21	Portable Room 21	Exterior	Building frame	Metal	D	Intact	0	Negative
816	5/24/21	Portable Room 21	Exterior	Building frame	Metal	A	Intact	0	Negative
817	5/24/21	Portable Room 21	Exterior	Conduit	Metal	A	Intact	0	Negative
818	5/24/21	Portable Room 21	Exterior	Conduit	Metal	A	Intact	-0.1	Negative
819	5/24/21	Portable Room 21	Exterior	Conduit	Metal	A	Intact	0	Negative
820	5/24/21	Portable Room 21	Exterior	Electrical box	Metal	A	Intact	0	Negative
821	5/24/21	Portable Room 21	Exterior	HVAC unit	Metal	A	Intact	0	Negative
822	5/24/21	Portable Room 21	Exterior	Overhang	Wood	A	Intact	0	Negative
823	5/24/21	Portable Room 21	Exterior	Overhang vent	Metal	A	Intact	-0.2	Negative
824	5/24/21	Portable Room 21	Exterior	Fascia	Metal	A	Intact	0.1	Negative
825	5/24/21	Portable Room 21	Exterior	Gutter	Metal	A	Intact	0	Negative
826	5/24/21	Portable Room 21	Exterior	Downspout	Metal	A	Intact	0	Negative
827	5/24/21	Portable Room 21	Exterior	Door	Metal	C	Intact	0.1	Negative
828	5/24/21	Portable Room 21	Exterior	Door frame	Metal	C	Intact	0.1	Negative
829	5/24/21	Portable Room 21	Exterior	Door frame trim	Wood	C	Intact	0.1	Negative
830	5/24/21	Portable Room 21	Exterior	Building frame	Metal	C	Intact	0.1	Negative
831	5/24/21	Portable Room 21	Exterior	Overhang vent	Metal	C	Intact	0	Negative
832	5/24/21	Portable Room 21	Exterior	Overhang	Wood	C	Intact	0	Negative
833	5/24/21	Portable Room 21	Exterior	Fascia	Metal	C	Intact	0.1	Negative
834	5/24/21	Portable Room 21	Exterior	Drip edge	Metal	C	Intact	0	Negative
835	5/24/21	Portable Room 22	Exterior	Door	Metal	A	Intact	0	Negative
836	5/24/21	Portable Room 22	Exterior	Door frame	Metal	A	Intact	0.1	Negative
837	5/24/21	Portable Room 22	Exterior	Door frame trim	Wood	A	Intact	0	Negative
838	5/24/21	Portable Room 22	Exterior	Wall	Wood	A	Intact	-0.2	Negative
839	5/24/21	Portable Room 22	Exterior	Building frame	Metal	A	Intact	0	Negative
840	5/24/21	Portable Room 22	Exterior	Overhang	Wood	A	Intact	0	Negative
841	5/24/21	Portable Room 22	Exterior	Wall	Wood	B	Intact	-0.2	Negative

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Concentration	Result
842	5/24/21	Portable Room 22	Exterior	Building frame	Metal	B	Intact	0.2	Negative
843	5/24/21	Portable Room 22	Exterior	Fascia	Metal	A	Intact	0.1	Negative
844	5/24/21	Portable Room 22	Exterior	Drip edge	Metal	A	Intact	0	Negative
845	5/24/21	Portable Room 22	Exterior	Overhang vent	Metal	A	Intact	-0.1	Negative
846	5/24/21	Portable Room 22	Exterior	Wall	Wood	C	Intact	-0.2	Negative
847	5/24/21	Portable Room 22	Exterior	Conduit	Metal	C	Intact	0	Negative
848	5/24/21	Portable Room 22	Exterior	Conduit	Metal	C	Intact	0	Negative
849	5/24/21	Portable Room 22	Exterior	Conduit	Metal	C	Intact	0.1	Negative
850	5/24/21	Portable Room 22	Exterior	Electrical box	Metal	C	Intact	0	Negative
851	5/24/21	Portable Room 22	Exterior	HVAC unit	Metal	C	Intact	-0.1	Negative
852	5/24/21	Portable Room 22	Exterior	Building frame	Metal	C	Intact	0	Negative
853	5/24/21	Portable Room 22	Exterior	Downspout	Metal	C	Intact	0	Negative
854	5/24/21	Portable Room 22	Exterior	Gutter	Metal	C	Intact	0	Negative
855	5/24/21	Portable Room 22	Exterior	Fascia	Metal	C	Intact	0.1	Negative
856	5/24/21	Portable Room 23	Exterior	Fascia	Metal	C	Intact	0	Negative
857	5/24/21	Portable Room 23	Exterior	Gutter	Metal	C	Intact	-0.1	Negative
858	5/24/21	Portable Room 23	Exterior	Overhang	Wood	C	Intact	0	Negative
859	5/24/21	Portable Room 23	Exterior	Overhang vent	Metal	C	Intact	0	Negative
860	5/24/21	Portable Room 23	Exterior	Building frame	Metal	C	Intact	0.1	Negative
861	5/24/21	Portable Room 23	Exterior	Wall	Wood	C	Intact	0.1	Negative
862	5/24/21	Portable Room 23	Exterior	HVAC unit	Metal	C	Intact	0	Negative
863	5/24/21	Portable Room 23	Exterior	Electrical box	Metal	C	Intact	-0.1	Negative
864	5/24/21	Portable Room 23	Exterior	Conduit	Metal	C	Intact	-0.1	Negative
865	5/24/21	Portable Room 23	Exterior	Conduit	Metal	C	Intact	-0.1	Negative
866	5/24/21	Portable Room 23	Exterior	Conduit	Metal	C	Intact	0	Negative
867	5/24/21	Portable Room 23	Exterior	Downspout	Metal	C	Intact	-0.1	Negative
868	5/24/21	Portable Room 23	Exterior	Wall	Wood	A	Intact	-0.1	Negative
869	5/24/21	Portable Room 23	Exterior	Building frame	Metal	A	Intact	0.1	Negative
870	5/24/21	Portable Room 23	Exterior	Door	Metal	A	Intact	0	Negative
871	5/24/21	Portable Room 23	Exterior	Door frame	Metal	A	Intact	0	Negative
872	5/24/21	Portable Room 23	Exterior	Door frame trim	Wood	A	Intact	0	Negative
873	5/24/21	Portable Room 23	Exterior	Fascia	Metal	A	Intact	0.1	Negative
874	5/24/21	Portable Room 23	Exterior	Drip edge	Metal	A	Intact	0	Negative

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Concentration	Result
875	5/24/21	Portable Room 23	Exterior	Overhang	Wood	A	Intact	-0.1	Negative
876	5/24/21	Portable Room 23	Exterior	Overhang vent	Metal	A	Intact	0	Negative
877	5/24/21	Portable Room 24	Exterior	Door	Metal	A	Intact	0	Negative
878	5/24/21	Portable Room 24	Exterior	Door frame	Metal	A	Intact	0	Negative
879	5/24/21	Portable Room 24	Exterior	Door frame trim	Wood	A	Intact	0	Negative
880	5/24/21	Portable Room 24	Exterior	Wall	Wood	A	Intact	-0.2	Negative
881	5/24/21	Portable Room 24	Exterior	Building frame	Metal	A	Intact	0.1	Negative
882	5/24/21	Portable Room 24	Exterior	Overhang	Wood	A	Intact	0	Negative
883	5/24/21	Portable Room 24	Exterior	Overhang vent	Metal	A	Intact	-0.1	Negative
884	5/24/21	Portable Room 24	Exterior	Fascia	Metal	A	Intact	0.1	Negative
885	5/24/21	Portable Room 24	Exterior	Drip edge	Metal	A	Intact	0	Negative
886	5/24/21	Portable Room 24	Exterior	Wall	Wood	C	Intact	-0.1	Negative
887	5/24/21	Portable Room 24	Exterior	Building frame	Metal	C	Intact	0.1	Negative
888	5/24/21	Portable Room 24	Exterior	HVAC unit	Metal	C	Intact	0	Negative
889	5/24/21	Portable Room 24	Exterior	Electrical box	Metal	C	Intact	0	Negative
890	5/24/21	Portable Room 24	Exterior	Conduit	Metal	C	Intact	0	Negative
891	5/24/21	Portable Room 24	Exterior	Conduit	Metal	C	Intact	-0.1	Negative
892	5/24/21	Portable Room 24	Exterior	Conduit	Metal	C	Intact	0	Negative
893	5/24/21	Portable Room 24	Exterior	Downspout	Metal	C	Intact	-0.1	Negative
894	5/24/21	Portable Room 24	Exterior	Fascia	Metal	C	Intact	0.1	Negative
895	5/24/21	Portable Room 24	Exterior	Gutter	Metal	C	Intact	0	Negative
896	5/24/21	Portable Room 24	Exterior	Overhang	Wood	C	Intact	-0.1	Negative
897	5/24/21	Portable Room 24	Exterior	Overhang vent	Metal	C	Intact	0	Negative
898	5/24/21	Portable Room 25.	Exterior	Wall	Wood	C	Intact	-0.2	Negative
899	5/24/21	Portable Room 25.	Exterior	Building frame	Metal	C	Intact	0.1	Negative
900	5/24/21	Portable Room 25.	Exterior	HVAC unit	Metal	C	Intact	0	Negative
901	5/24/21	Portable Room 25.	Exterior	Electrical box	Metal	C	Intact	0	Negative
902	5/24/21	Portable Room 25.	Exterior	Conduit	Metal	C	Intact	0	Negative
903	5/24/21	Portable Room 25.	Exterior	Conduit	Metal	C	Intact	0	Negative
904	5/24/21	Portable Room 25.	Exterior	Downspout	Metal	C	Intact	0	Negative
905	5/24/21	Portable Room 25.	Exterior	Fascia	Metal	C	Intact	0.1	Negative
906	5/24/21	Portable Room 25.	Exterior	Gutter	Metal	C	Intact	-0.1	Negative
907	5/24/21	Portable Room 25.	Exterior	Overhang	Wood	C	Intact	0.1	Negative

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Concentration	Result
908	5/24/21	Portable Room 25.	Exterior	Overhang vent	Metal	C	Intact	-0.1	Negative
909	5/24/21	Portable Room 25.	Exterior	Wall	Wood	A	Intact	0	Negative
910	5/24/21	Portable Room 25.	Exterior	Building frame	Metal	A	Intact	0.2	Negative
911	5/24/21	Portable Room 25.	Exterior	Door	Metal	A	Intact	0	Negative
912	5/24/21	Portable Room 25.	Exterior	Door frame	Metal	A	Intact	0.1	Negative
913	5/24/21	Portable Room 25.	Exterior	Door frame trim	Wood	A	Intact	0	Negative
914	5/24/21	Portable Room 25.	Exterior	Overhang	Wood	A	Intact	0	Negative
915	5/24/21	Portable Room 25.	Exterior	Overhang vent	Metal	A	Intact	0	Negative
916	5/24/21	Portable Room 25.	Exterior	Fascia	Metal	A	Intact	0	Negative
917	5/24/21	Portable Room 25.	Exterior	Drip edge	Metal	A	Intact	-0.1	Negative
918	5/24/21	Portable Room 26	Exterior	Door	Metal	A	Intact	0	Negative
919	5/24/21	Portable Room 26	Exterior	Door frame	Metal	A	Intact	0.1	Negative
920	5/24/21	Portable Room 26	Exterior	Door frame trim	Wood	A	Intact	0	Negative
921	5/24/21	Portable Room 26	Exterior	Wall	Wood	A	Intact	0	Negative
922	5/24/21	Portable Room 26	Exterior	Building frame	Metal	A	Intact	0	Negative
923	5/24/21	Portable Room 26	Exterior	Overhang vent	Metal	A	Intact	-0.1	Negative
924	5/24/21	Portable Room 26	Exterior	Fascia	Metal	A	Intact	0.1	Negative
925	5/24/21	Portable Room 26	Exterior	Drip edge	Metal	A	Intact	-0.1	Negative
926	5/24/21	Portable Room 26	Exterior	Wall	Wood	C	Intact	0	Negative
927	5/24/21	Portable Room 26	Exterior	Building frame	Metal	C	Intact	0	Negative
928	5/24/21	Portable Room 26	Exterior	Conduit	Metal	C	Intact	0.1	Negative
929	5/24/21	Portable Room 26	Exterior	Conduit	Metal	C	Intact	0	Negative
930	5/24/21	Portable Room 26	Exterior	Conduit	Metal	C	Intact	-0.1	Negative
931	5/24/21	Portable Room 26	Exterior	Electrical box	Metal	C	Intact	0	Negative
932	5/24/21	Portable Room 26	Exterior	HVAC unit	Metal	C	Intact	0.1	Negative
933	5/24/21	Portable Room 26	Exterior	Downspout	Metal	C	Intact	0	Negative
934	5/24/21	Portable Room 26	Exterior	Fascia	Metal	C	Intact	0.1	Negative
935	5/24/21	Portable Room 26	Exterior	Gutter	Metal	C	Intact	0.2	Negative
936	5/24/21	Portable Room 26	Exterior	Overhang vent	Metal	C	Intact	0	Negative
937	5/24/21	Portable Room 26	Exterior	Overhang	Wood	C	Intact	-0.1	Negative
938	5/24/21	Portable Room 27	Exterior	Overhang	Wood	C	Intact	-0.1	Negative
939	5/24/21	Portable Room 27	Exterior	Overhang vent	Metal	C	Intact	0	Negative
940	5/24/21	Portable Room 27	Exterior	Fascia	Metal	C	Intact	0.1	Negative

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Concentration	Result
941	5/24/21	Portable Room 27	Exterior	Gutter	Metal	C	Intact	0	Negative
942	5/24/21	Portable Room 27	Exterior	Downspout	Metal	C	Intact	0	Negative
943	5/24/21	Portable Room 27	Exterior	Wall	Wood	C	Intact	0.1	Negative
944	5/24/21	Portable Room 27	Exterior	Wall	Wood	D	Intact	0	Negative
945	5/24/21	Portable Room 27	Exterior	Building frame	Metal	D	Intact	0.1	Negative
946	5/24/21	Portable Room 27	Exterior	Building frame	Metal	C	Intact	0.1	Negative
947	5/24/21	Portable Room 27	Exterior	Conduit	Metal	C	Intact	0.1	Negative
948	5/24/21	Portable Room 27	Exterior	Conduit	Metal	C	Intact	0	Negative
949	5/24/21	Portable Room 27	Exterior	Conduit	Metal	C	Intact	0	Negative
950	5/24/21	Portable Room 27	Exterior	HVAC unit	Metal	C	Intact	-0.1	Negative
951	5/24/21	Portable Room 27	Exterior	Electrical box	Metal	C	Intact	0	Negative
952	5/24/21	Portable Room 27	Exterior	Door	Metal	A	Intact	0	Negative
953	5/24/21	Portable Room 27	Exterior	Door frame	Metal	A	Intact	0	Negative
954	5/24/21	Portable Room 27	Exterior	Door frame trim	Wood	A	Intact	0	Negative
955	5/24/21	Portable Room 27	Exterior	Wall	Wood	A	Intact	0	Negative
956	5/24/21	Portable Room 27	Exterior	Building frame	Metal	A	Intact	0.1	Negative
957	5/24/21	Portable Room 27	Exterior	Fascia	Metal	A	Intact	0.2	Negative
958	5/24/21	Portable Room 27	Exterior	Drip edge	Metal	A	Intact	0	Negative
959	5/24/21	Portable Room 27	Exterior	Overhang vent	Metal	A	Intact	0	Negative
960	5/24/21	Portable Room 27	Exterior	Overhang	Wood	A	Intact	0	Negative
961	5/24/21	Restroom Portable	Exterior	Wall	Wood	A	Intact	-0.2	Negative
962	5/24/21	Restroom Portable	Exterior	Wall	Wood	B	Intact	-0.2	Negative
963	5/24/21	Restroom Portable	Exterior	Door	Metal	B	Intact	-0.1	Negative
964	5/24/21	Restroom Portable	Exterior	Door	Metal	B	Intact	0	Negative
965	5/24/21	Restroom Portable	Exterior	Door	Metal	B	Intact	-0.1	Negative
966	5/24/21	Restroom Portable	Exterior	Door	Metal	B	Intact	0	Negative
967	5/24/21	Restroom Portable	Exterior	Door frame	Metal	B	Intact	0	Negative
968	5/24/21	Restroom Portable	Exterior	Door frame	Metal	B	Intact	0	Negative
969	5/24/21	Restroom Portable	Exterior	Door frame	Metal	B	Intact	0	Negative
970	5/24/21	Restroom Portable	Exterior	Door frame	Metal	B	Intact	0	Negative
971	5/24/21	Restroom Portable	Exterior	Door frame trim	Wood	B	Intact	0	Negative
972	5/24/21	Restroom Portable	Exterior	Door frame trim	Wood	B	Intact	0	Negative
973	5/24/21	Restroom Portable	Exterior	Door frame trim	Wood	B	Intact	0	Negative

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Concentration	Result
974	5/24/21	Restroom Portable	Exterior	Door frame trim	Wood	B	Intact	0	Negative
975	5/24/21	Restroom Portable	Exterior	Wall partition	Metal	B	Intact	-0.2	Negative
976	5/24/21	Restroom Portable	Exterior	Wall partition	Metal	B	Intact	0	Negative
977	5/24/21	Restroom Portable	Exterior	Wall	Wood	C	Intact	0	Negative
978	5/24/21	Restroom Portable	Exterior	Building frame	Metal	C	Intact	0	Negative
979	5/24/21	Restroom Portable	Exterior	Conduit	Metal	C	Intact	-0.1	Negative
980	5/24/21	Restroom Portable	Exterior	Conduit	Metal	C	Intact	-0.1	Negative
981	5/24/21	Restroom Portable	Exterior	Downspout	Metal	C	Intact	0	Negative
982	5/24/21	Restroom Portable	Exterior	Electrical box	Metal	C	Intact	0.1	Negative
983	5/24/21	Restroom Portable	Exterior	Fascia	Metal	A	Intact	0	Negative
984	5/24/21	Restroom Portable	Exterior	Drip edge	Metal	A	Intact	0.1	Negative
985	5/24/21	Restroom Portable	Exterior	Overhang	Wood	A	Intact	0	Negative
986	5/24/21	Restroom Portable	Exterior	Overhang vent	Metal	A	Intact	-0.1	Negative
987	5/24/21	Restroom Portable	Exterior	Wall	Wood	D	Intact	0.1	Negative
988	5/24/21	Restroom Portable	Exterior	Overhang	Wood	C	Intact	0	Negative
989	5/24/21	Restroom Portable	Exterior	Overhang vent	Metal	C	Intact	0.1	Negative
990	5/24/21	Restroom Portable	Exterior	Fascia	Metal	C	Intact	0	Negative
991	5/24/21	Restroom Portable	Exterior	Gutter	Metal	C	Intact	-0.1	Negative
992	5/24/21	Portable Room 28	Exterior	Door	Metal	D	Intact	0	Negative
993	5/24/21	Portable Room 28	Exterior	Door frame	Metal	D	Intact	0	Negative
994	5/24/21	Portable Room 28	Exterior	Door frame trim	Wood	D	Intact	-0.4	Negative
995	5/24/21	Portable Room 28	Exterior	Wall	Wood	D	Intact	-0.1	Negative
996	5/24/21	Portable Room 28	Exterior	Wall	Wood	D	Intact	-0.2	Negative
997	5/24/21	Portable Room 28	Exterior	Building frame	Metal	D	Intact	0	Negative
998	5/24/21	Portable Room 28	Exterior	Downspout	Metal	D	Intact	-0.1	Negative
999	5/24/21	Portable Room 28	Exterior	Gutter	Metal	D	Intact	0	Negative
1000	5/24/21	Portable Room 28	Exterior	Overhang	Wood	D	Intact	-0.1	Negative
1001	5/24/21	Portable Room 28	Exterior	Overhang beam	Metal	D	Intact	0.1	Negative
1002	5/24/21	Portable Room 28	Exterior	Wall	Wood	A	Intact	0	Negative
1003	5/24/21	Portable Room 28	Exterior	Conduit	Metal	A	Intact	-0.1	Negative
1004	5/24/21	Portable Room 28	Exterior	Conduit	Metal	A	Intact	0	Negative
1005	5/24/21	Portable Room 28	Exterior	Conduit	Metal	A	Intact	0	Negative
1006	5/24/21	Portable Room 28	Exterior	Conduit	Metal	A	Intact	0.4	Negative

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Concentration	Result
1007	5/24/21	Portable Room 28	Exterior	Conduit	Metal	A	Intact	0.4	Negative
1008	5/24/21	Portable Room 28	Exterior	Conduit	Metal	A	Intact	0	Negative
1009	5/24/21	Portable Room 28	Exterior	Conduit	Metal	A	Intact	0.2	Negative
1010	5/24/21	Portable Room 28	Exterior	Conduit	Metal	A	Intact	0.3	Negative
1011	5/24/21	Portable Room 28	Exterior	Wall	Wood	B	Intact	-0.1	Negative
1012	5/24/21	Portable Room 28	Exterior	Electrical box	Metal	B	Intact	0	Negative
1013	5/24/21	Portable Room 28	Exterior	Conduit	Metal	B	Intact	0.3	Negative
1014	5/24/21	Portable Room 28	Exterior	Conduit	Metal	B	Intact	0.2	Negative
1015	5/24/21	Portable Room 28	Exterior	HVAC unit	Metal	B	Intact	0.1	Negative
1016	5/24/21	Portable Room 28	Exterior	Downspout	Metal	B	Intact	0	Negative
1017	5/24/21	Portable Room 28	Exterior	Wall skirt	Metal	B	Intact	-0.2	Negative
1018	5/24/21			Calibrate				1.1	Positive
1019	5/24/21			Calibrate				1	Positive
1020	5/24/21			Calibrate				1	Positive
1021	5/24/21			Calibrate				1	Positive
1022	5/24/21	Portable Room 29	Exterior	Door	Metal	D	Intact	0	Negative
1023	5/24/21	Portable Room 29	Exterior	Door frame	Metal	D	Intact	0.1	Negative
1024	5/24/21	Portable Room 29	Exterior	Door frame trim	Wood	D	Intact	-0.4	Negative
1025	5/24/21	Portable Room 29	Exterior	Wall	Wood	D	Intact	0.1	Negative
1026	5/24/21	Portable Room 29	Exterior	Wall	Wood	D	Intact	0	Negative
1027	5/24/21	Portable Room 29	Exterior	Overhang	Wood	D	Intact	-0.2	Negative
1028	5/24/21	Portable Room 29	Exterior	Overhang beam	Metal	D	Intact	0.1	Negative
1029	5/24/21	Portable Room 29	Exterior	Gutter	Metal	D	Intact	0	Negative
1030	5/24/21	Portable Room 29	Exterior	Downspout	Metal	D	Intact	0	Negative
1031	5/24/21	Portable Room 29	Exterior	Building frame	Metal	D	Intact	0	Negative
1032	5/24/21	Portable Room 29	Exterior	Building frame	Metal	B	Intact	0.1	Negative
1033	5/24/21	Portable Room 29	Exterior	HVAC unit	Metal	B	Intact	0	Negative
1034	5/24/21	Portable Room 29	Exterior	Electrical box	Metal	B	Intact	0.1	Negative
1035	5/24/21	Portable Room 29	Exterior	Conduit	Metal	B	Intact	0.2	Negative
1036	5/24/21	Portable Room 29	Exterior	Conduit	Metal	B	Intact	0.2	Negative
1037	5/24/21	Portable Room 29	Exterior	Conduit	Metal	B	Intact	0.2	Negative
1038	5/24/21	Portable Room 29	Exterior	Conduit	Metal	B	Intact	0.2	Negative
1039	5/24/21	Portable Room 29	Exterior	Downspout	Metal	B	Intact	0	Negative

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Concentration	Result
1040	**5/24/21**	**Portable Room 29**	**Exterior**	**Gutter**	**Metal**	**B**	**Intact**	**15**	**Positive**
1041	5/24/21	Portable Room 29	Exterior	Fascia	Metal	B	Intact	0.1	Negative
1042	5/24/21	Portable Room 29	Exterior	Overhang	Wood	B	Intact	-0.1	Negative
1043	5/24/21	Portable Room 29	Exterior	Wall skirt	Metal	B	Intact	0.1	Negative
1044	5/24/21	Portable Room 29	Exterior	Downspout	Metal	B	Intact	0	Negative
1045	5/24/21	Portable Room 30	Exterior	Downspout	Metal	B	Intact	-0.1	Negative
1046	5/24/21	Portable Room 30	Exterior	Wall skirt	Metal	B	Intact	0.2	Negative
1047	5/24/21	Portable Room 30	Exterior	Wall	Wood	B	Intact	-0.2	Negative
1048	5/24/21	Portable Room 30	Exterior	Conduit	Metal	B	Intact	0.2	Negative
1049	5/24/21	Portable Room 30	Exterior	Conduit	Metal	B	Intact	0.3	Negative
1050	5/24/21	Portable Room 30	Exterior	Electrical box	Metal	B	Intact	0	Negative
1051	5/24/21	Portable Room 30	Exterior	HVAC unit	Metal	B	Intact	0.1	Negative
1052	5/24/21	Portable Room 30	Exterior	Gutter	Metal	B	Intact	0	Negative
1053	5/24/21	Portable Room 30	Exterior	Overhang beam	Metal	B	Intact	0.1	Negative
1054	5/24/21	Portable Room 30	Exterior	Overhang	Wood	B	Intact	-0.4	Negative
1055	5/24/21	Portable Room 30	Exterior	Wall	Wood	C	Intact	0	Negative
1056	5/24/21	Portable Room 30	Exterior	Fascia	Metal	C	Intact	0.2	Negative
1057	5/24/21	Portable Room 30	Exterior	Drip edge	Metal	C	Intact	0	Negative
1058	5/24/21	Portable Room 30	Exterior	Overhang	Wood	D	Intact	-0.1	Negative
1059	5/24/21	Portable Room 30	Exterior	Overhang beam	Metal	D	Intact	0.1	Negative
1060	5/24/21	Portable Room 30	Exterior	Downspout	Metal	D	Intact	0	Negative
1061	5/24/21	Portable Room 30	Exterior	Building frame	Metal	D	Intact	0	Negative
1062	5/24/21	Portable Room 30	Exterior	Door	Metal	D	Intact	0	Negative
1063	5/24/21	Portable Room 30	Exterior	Door frame	Metal	D	Intact	0	Negative
1064	5/24/21	Portable Room 30	Exterior	Door frame trim	Wood	D	Intact	-0.2	Negative
1065	5/24/21	Portable Room 30	Exterior	Wall	Wood	D	Intact	-0.1	Negative
1066	5/24/21	Portable Room 30	Exterior	Wall	Wood	D	Intact	0.1	Negative
1067	5/24/21	Portable Room 30	Exterior	Building frame	Metal	D	Intact	0	Negative
1068	5/24/21	Portable Room 30	Exterior	Gutter	Metal	D	Intact	0	Negative
1069	5/24/21	Portable Room 30	Exterior	Overhang	Wood	D	Intact	0	Negative
1070	5/24/21	Portable Room 30	Exterior	Overhang beam	Metal	D	Intact	0.1	Negative
1071	5/24/21	Portable Room 30	Exterior	Fascia	Metal	D	Intact	0.1	Negative
1072	5/24/21	Portable Room 31	Exterior	Wall	Wood	A	Intact	-0.1	Negative

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Concentration	Result
1073	5/24/21	Portable Room 31	Exterior	Conduit	Metal	A	Intact	0	Negative
1074	5/24/21	Portable Room 31	Exterior	Conduit	Metal	A	Intact	0	Negative
1075	5/24/21	Portable Room 31	Exterior	Conduit	Metal	A	Intact	0.4	Negative
1076	5/24/21	Portable Room 31	Exterior	Conduit	Metal	A	Intact	0.4	Negative
1077	5/24/21	Portable Room 31	Exterior	Conduit	Metal	A	Intact	0.3	Negative
1078	5/24/21	Portable Room 31	Exterior	Conduit	Metal	A	Intact	0	Negative
1079	5/24/21	Portable Room 31	Exterior	Building frame	Metal	A	Intact	0	Negative
1080	5/24/21	Portable Room 31	Exterior	Electrical box	Metal	A	Intact	-0.1	Negative
1081	5/24/21	Portable Room 31	Exterior	Electrical box	Metal	A	Intact	-0.1	Negative
1082	5/24/21	Portable Room 31	Exterior	Door	Metal	B	Intact	0	Negative
1083	5/24/21	Portable Room 31	Exterior	Door frame	Metal	B	Intact	0.1	Negative
1084	5/24/21	Portable Room 31	Exterior	Door frame trim	Wood	B	Intact	-0.4	Negative
1085	5/24/21	Portable Room 31	Exterior	Wall	Wood	B	Intact	0	Negative
1086	5/24/21	Portable Room 31	Exterior	Wall	Wood	B	Intact	-0.2	Negative
1087	5/24/21	Portable Room 31	Exterior	Building frame	Metal	B	Intact	0	Negative
1088	5/24/21	Portable Room 31	Exterior	Downspout	Metal	B	Intact	0	Negative
1089	5/24/21	Portable Room 31	Exterior	Overhang	Wood	B	Intact	0	Negative
1090	5/24/21	Portable Room 31	Exterior	Overhang beam	Metal	B	Intact	0	Negative
1091	5/24/21	Portable Room 31	Exterior	Gutter	Metal	B	Intact	-0.1	Negative
1092	5/24/21	Portable Room 31	Exterior	Fascia	Metal	B	Intact	0.1	Negative
1093	5/24/21	Portable Room 31	Exterior	Overhang	Wood	B	Intact	0	Negative
1094	5/24/21	Portable Room 32	Exterior	Door	Metal	B	Intact	0	Negative
1095	5/24/21	Portable Room 32	Exterior	Door frame	Metal	B	Intact	0.2	Negative
1096	5/24/21	Portable Room 32	Exterior	Door frame trim	Wood	B	Intact	-0.5	Negative
1097	5/24/21	Portable Room 32	Exterior	Wall	Wood	B	Intact	-0.1	Negative
1098	5/24/21	Portable Room 32	Exterior	Wall	Wood	B	Intact	0	Negative
1099	5/24/21	Portable Room 32	Exterior	Building frame	Metal	B	Intact	0	Negative
1100	5/24/21	Portable Room 32	Exterior	Downspout	Metal	B	Intact	0.1	Negative
1101	5/24/21	Portable Room 32	Exterior	Overhang	Wood	B	Intact	-0.1	Negative
1102	5/24/21	Portable Room 32	Exterior	Overhang beam	Metal	B	Intact	0.2	Negative
1103	5/24/21	Portable Room 32	Exterior	Fascia	Metal	B	Intact	0.1	Negative
1104	5/24/21	Portable Room 32	Exterior	Gutter	Metal	B	Intact	0	Negative
1105	5/24/21	Portable Room 32	Exterior	Wall	Stucco	C	Intact	-0.1	Negative

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Concentration	Result
1106	5/24/21	Portable Room 32	Exterior	Wall	Stucco	C	Intact	0	Negative
1107	5/24/21	Portable Room 32	Exterior	Wall skirt	Metal	C	Intact	-0.1	Negative
1108	5/24/21	Portable Room 32	Exterior	Wall	Wood	D	Intact	-0.1	Negative
1109	5/24/21	Portable Room 32	Exterior	Conduit	Metal	D	Intact	0.3	Negative
1110	5/24/21	Portable Room 32	Exterior	Conduit	Metal	D	Intact	0.2	Negative
1111	5/24/21	Portable Room 32	Exterior	Electrical box	Metal	D	Intact	0	Negative
1112	5/24/21	Portable Room 32	Exterior	HVAC unit	Metal	D	Intact	0	Negative
1113	5/24/21	Portable Room 32	Exterior	Wall skirt	Metal	D	Intact	-0.2	Negative
1114	5/24/21	Portable Room 32	Exterior	Downspout	Metal	D	Intact	0	Negative
1115	5/24/21	Portable Room 32	Exterior	Building frame	Metal	D	Intact	0	Negative
1116	5/24/21	Portable Room 32	Exterior	Gutter	Metal	D	Intact	0	Negative
1117	5/24/21	Portable Room 32	Exterior	Overhang	Wood	D	Intact	-0.4	Negative
1118	5/24/21	Portable Room 32	Exterior	Overhang beam	Metal	D	Intact	0	Negative
1119	5/24/21	Campus	Northwest Covered Walkway	Ceiling	Wood	Upper	Intact	0.2	Negative
1120	5/24/21	Campus	Northwest Covered Walkway	Ceiling beam	Wood	Upper	Intact	-0.2	Negative
1121	5/24/21	Campus	Northwest Covered Walkway	Ceiling beam	Wood	Upper	Intact	-0.1	Negative
1122	5/24/21	Campus	Northwest Covered Walkway	Fascia	Metal	B	Intact	0.1	Negative
1123	5/24/21	Campus	Northwest Covered Walkway	Drip edge	Metal	B	Intact	-0.1	Negative
1124	5/24/21	Campus	Northwest Covered Walkway	Ladder	Metal	Roof	Intact	0.2	Negative

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Concentration	Result
1125	5/24/21	Campus	Northwest Covered Walkway	Ceiling	Wood	Upper	Intact	0.3	Negative
1126	5/24/21	Campus	Northwest Covered Walkway	Ceiling beam	Wood	Upper	Intact	0	Negative
1127	5/24/21	Campus	Northwest Covered Walkway	Ceiling beam	Wood	Upper	Intact	0.5	Negative
1128	5/24/21	Campus	Northwest Covered Walkway	Ceiling beam	Metal	Upper	Intact	0.2	Negative
1129	5/24/21	Campus	Northwest Covered Walkway	Gutter	Metal	D	Intact	0	Negative
1130	5/24/21	Campus	Northwest Covered Walkway	Gutter	Metal	D	Intact	0	Negative
1131	5/24/21	Campus	Northwest Covered Walkway	Drip edge	Metal	D	Intact	0.1	Negative
1132	5/24/21	Campus	Northwest Covered Walkway	Ceiling	Wood	Upper	Intact	0.3	Negative
1133	5/24/21	Campus	Northwest Covered Walkway	Ceiling beam	Wood	Upper	Intact	-0.1	Negative
1134	5/24/21	Campus	Northeast Covered Walkway	Ceiling	Wood	Upper	Intact	0.1	Negative
1135	5/24/21	Campus	Northeast Covered Walkway	Ceiling beam	Wood	Upper	Intact	0.2	Negative

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Concentration	Result
1136	5/24/21	Campus	Northeast Covered Walkway	Ceiling beam	Wood	Upper	Intact	0.2	Negative
1137	5/24/21	Campus	Northeast Covered Walkway	Ceiling	Wood	Upper	Intact	0.1	Negative
1138	5/24/21	Campus	Northeast Covered Walkway	Ceiling	Wood	Upper	Intact	0.3	Negative
1139	5/24/21	Campus	Northeast Covered Walkway	Ceiling	Wood	Upper	Intact	0.2	Negative
1140	5/24/21	Campus	Northeast Covered Walkway	Ceiling beam	Wood	Upper	Intact	-0.1	Negative
1141	5/24/21	Campus	Northeast Covered Walkway	Ceiling beam	Wood	Upper	Intact	0.1	Negative
1142	5/24/21	Campus	Northeast Covered Walkway	Ceiling beam	Wood	Upper	Intact	0.2	Negative
1143	**5/24/21**	**Northeast Covered Walkway**	**Exterior**	**Gutter**	**Metal**	**D**	**Intact**	**1**	**Positive**
1144	**5/24/21**	**Northeast Covered Walkway**	**Exterior**	**Ceiling beam**	**Metal**	**Upper**	**Intact**	**1.8**	**Positive**
1145	5/24/21	Campus	Northeast Covered Walkway	Drip edge	Metal	D	Intact	0	Negative
1146	5/24/21	Campus	Northeast Covered Walkway	Ladder	Metal	Roof	Intact	0	Negative
1147	5/24/21	Campus	Southeast Covered Walkway	Ceiling	Wood	Upper	Intact	-0.1	Negative

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Concentration	Result
1148	5/24/21	Campus	Southeast Covered Walkway	Ceiling beam	Wood	Upper	Intact	-0.4	Negative
1149	5/24/21	Campus	Southeast Covered Walkway	Ceiling beam	Metal	Upper	Intact	0.1	Negative
1150	5/24/21	Campus	Southeast Covered Walkway	Gutter	Metal	B	Intact	0.3	Negative
1151	5/24/21	Campus	Southeast Covered Walkway	Ceiling	Wood	Upper	Intact	0.6	Negative
1152	5/24/21	Campus	Southeast Covered Walkway	Ceiling	Wood	Upper	Intact	0.4	Negative
1153	5/24/21	Campus	Southeast Covered Walkway	Ceiling	Wood	Upper	Intact	0.6	Negative
1154	5/24/21	Campus	Southeast Covered Walkway	Ceiling beam	Wood	Upper	Intact	0.4	Negative
1155	5/24/21	Campus	Southeast Covered Walkway	Ceiling beam	Wood	Upper	Intact	0.2	Negative
1156	5/24/21	Campus	Southeast Covered Walkway	Ceiling beam	Metal	Upper	Intact	0.2	Negative
1157	5/24/21	Campus	Southeast Covered Walkway	Drip edge	Metal	D	Intact	0.3	Negative
1158	5/24/21	Campus	Southeast Covered Walkway	Fascia	Wood	D	Intact	0.2	Negative

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Concentration	Result
1159	5/24/21	Campus	Southeast Covered Walkway	Ceiling	Wood	Upper	Intact	-0.6	Negative
1160	5/24/21	Campus	Southeast Covered Walkway	Ceiling beam	Wood	Upper	Intact	0.1	Negative
1161	5/24/21	Campus	Southeast Covered Walkway	Ceiling beam	Wood	Upper	Intact	0.2	Negative
1162	5/24/21	Campus	Southeast Covered Walkway	Ceiling	Wood	Upper	Intact	0.1	Negative
1163	5/24/21			Calibrate				1	Positive
1164	5/24/21			Calibrate				1	Positive
1165	5/24/21			Calibrate				1	Positive
1166	5/24/21	Campus	Parking Lot 1	Floor stripe	Asphalt	Lower	Intact	0.2	Negative
1167	5/24/21	Campus	Parking Lot 1	Floor stripe	Asphalt	Lower	Intact	0	Negative
1168	5/24/21	Campus	Parking Lot 1	Floor stripe	Asphalt	Lower	Intact	-0.2	Negative
1169	5/24/21	Campus	Parking Lot 1	Floor stripe	Asphalt	Lower	Intact	0	Negative
1170	5/24/21	Campus	Parking Lot 1	Floor stripe	Asphalt	Lower	Intact	0.2	Negative
1171	5/24/21	Campus	Parking Lot 1	Floor stripe	Asphalt	Lower	Intact	0.1	Negative
1172	5/24/21	Campus	Parking Lot 1	Floor stripe	Asphalt	Lower	Intact	0.2	Negative
1173	5/24/21	Campus	Parking Lot 1	Floor stripe	Asphalt	Lower	Intact	0	Negative
1174	5/24/21	Campus	Parking Lot 1	Floor stripe	Asphalt	Lower	Intact	0.1	Negative
1175	5/24/21	Campus	Parking Lot 1	Bollard	Metal	B	Intact	0.1	Negative
1176	5/24/21	Campus	Parking Lot 1	Gate	Metal	B	Intact	0	Negative
1177	5/24/21	Campus	Parking Lot 1	Gate	Metal	B	Intact	0	Negative
1178	5/24/21	Campus	Parking Lot 1	Fence	Metal	B	Intact	0.1	Negative
1179	5/24/21	Campus	Parking Lot 1	Bollard	Metal	B	Intact	0.1	Negative
1180	5/24/21	Campus	Parking Lot 1	Bollard	Metal	B	Intact	0.1	Negative
1181	5/24/21	Campus	Parking Lot 1	Gate	Metal	A	Intact	0.1	Negative
1182	5/24/21	Campus	Parking Lot 1	Fence	Metal	A	Intact	-0.1	Negative
1183	5/24/21	Campus	Parking Lot 2	School sign	Metal	A	Intact	-0.1	Negative

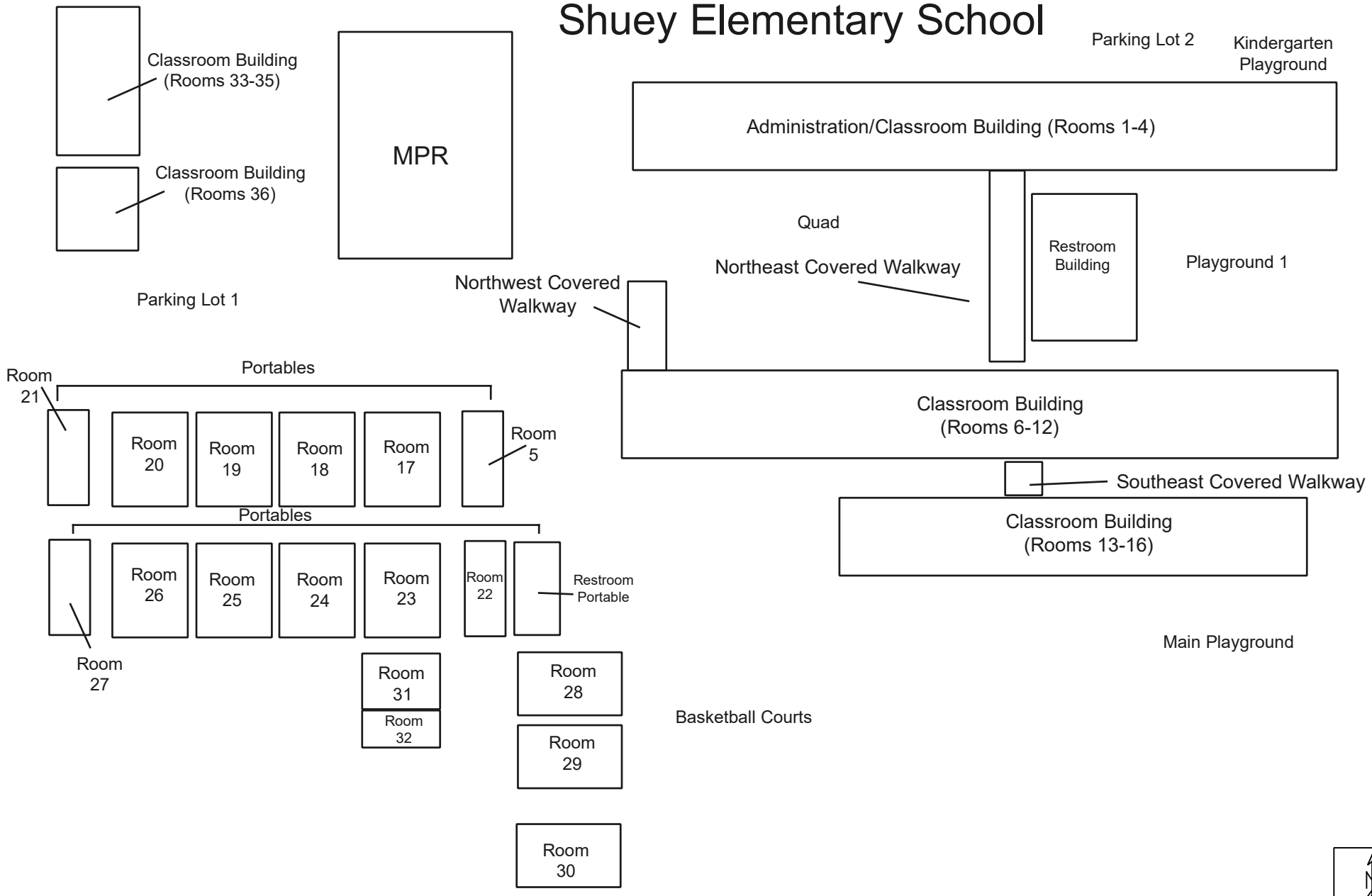
Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Concentration	Result
1184	5/24/21	Campus	Parking Lot 2	School sign	Metal	A	Intact	0	Negative
1185	5/24/21	Campus	Parking Lot 2	School sign	Metal	A	Intact	0	Negative
1186	5/24/21	Campus	Parking Lot 2	Floor stripe	Asphalt	Lower	Intact	0.2	Negative
1187	5/24/21	Campus	Parking Lot 2	Floor stripe	Asphalt	Lower	Intact	0.1	Negative
1188	5/24/21	Campus	Parking Lot 2	Floor stripe	Asphalt	Lower	Intact	0.3	Negative
1189	5/24/21	Campus	Parking Lot 2	Floor stripe	Asphalt	Lower	Intact	0.1	Negative
1190	5/24/21	Campus	Parking Lot 2	Floor stripe	Asphalt	Lower	Intact	0	Negative
1191	5/24/21	Campus	Parking Lot 2	Curb	Concrete	A	Intact	0.2	Negative
1192	5/24/21	Campus	Parking Lot 2	Curb	Concrete	A	Intact	0.1	Negative
1193	5/24/21	Main Playground	Exterior	Floor stripe	Asphalt	Lower	Intact	0.1	Negative
1194	5/24/21	Main Playground	Exterior	Floor stripe	Asphalt	Lower	Intact	0.2	Negative
1195	5/24/21	Main Playground	Exterior	Floor stripe	Asphalt	Lower	Intact	0.1	Negative
1196	5/24/21	Main Playground	Exterior	Floor stripe	Asphalt	Lower	Intact	0.1	Negative
1197	5/24/21	Main Playground	Exterior	Floor stripe	Asphalt	Lower	Intact	0.2	Negative
1198	5/24/21	Main Playground	Exterior	Floor stripe	Asphalt	Lower	Intact	0.3	Negative
1199	5/24/21	Main Playground	Exterior	Floor stripe	Asphalt	Lower	Intact	0.2	Negative
1200	5/24/21			Calibrate				1	Positive
1201	5/24/21			Calibrate				1	Positive
1202	5/24/21			Calibrate				1	Positive
1203	5/25/21			Calibrate				0.9	Positive
1204	5/25/21			Calibrate				1	Positive
1205	5/25/21			Calibrate				0.9	Positive
1206	5/25/21	Storage Shed 1	Exterior	Wall	Wood	A	Intact	0	Negative
1207	5/25/21	Storage Shed 1	Exterior	Wall	Wood	B	Intact	0	Negative
1208	5/25/21	Storage Shed 1	Exterior	Wall	Wood	C	Intact	-0.1	Negative
1209	5/25/21	Storage Shed 1	Exterior	Wall	Wood	D	Intact	0	Negative
1210	5/25/21	Storage Shed 1	Exterior	Door	Wood	A	Intact	0	Negative
1211	5/25/21	Storage Shed 1	Exterior	Door	Wood	A	Intact	0.1	Negative
1212	5/25/21	Storage Shed 1	Exterior	Door frame	Wood	A	Intact	0	Negative
1213	5/25/21	Storage Shed 1	Exterior	Wall trim	Wood	A	Intact	0.1	Negative
1214	5/25/21	Storage Shed 1	Exterior	Wall trim	Wood	A	Intact	-0.1	Negative
1215	5/25/21	Storage Shed 1	Exterior	Door frame	Wood	A	Intact	-0.2	Negative
1216	5/25/21	Storage Shed 2	Exterior	Door	Wood	A	Intact	-0.2	Negative

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Concentration	Result
1217	5/25/21	Storage Shed 2	Exterior	Door	Wood	A	Intact	0.1	Negative
1218	5/25/21	Storage Shed 2	Exterior	Wall	Wood	A	Intact	-0.1	Negative
1219	5/25/21	Storage Shed 2	Exterior	Wall	Wood	B	Intact	-0.1	Negative
1220	5/25/21	Storage Shed 2	Exterior	Wall	Wood	C	Intact	-0.1	Negative
1221	5/25/21	Storage Shed 2	Exterior	Wall	Wood	D	Intact	-0.1	Negative
1222	5/25/21	Storage Shed 2	Exterior	Fascia	Wood	A	Intact	0	Negative
1223	5/25/21	Storage Shed 2	Exterior	Wall	Wood	A	Intact	0	Negative
1224	5/25/21	Storage Shed 2	Exterior	Wall	Wood	B	Intact	-0.2	Negative
1225	5/25/21	Storage Shed 3	Exterior	Wall	Wood	C	Intact	-0.1	Negative
1226	5/25/21	Storage Shed 3	Exterior	Wall	Wood	D	Intact	0	Negative
1227	5/25/21	Storage Shed 3	Exterior	Door	Wood	B	Intact	-0.1	Negative
1228	5/25/21	Storage Shed 3	Exterior	Door	Wood	B	Intact	-0.3	Negative
1229	5/25/21	Storage Shed 3	Exterior	Door frame	Wood	B	Intact	0	Negative
1230	5/25/21	Storage Shed 3	Exterior	Wall trim	Wood	B	Intact	-0.1	Negative
1231	5/25/21	Storage Shed 3	Exterior	Wall trim	Wood	A	Intact	-0.1	Negative
1232	5/25/21	Storage Shed 3	Exterior	Door frame	Wood	A	Intact	-0.1	Negative
1233	5/25/21	Storage Shed 4	Exterior	Door	Wood	A	Intact	-0.3	Negative
1234	5/25/21	Storage Shed 4	Exterior	Door	Wood	A	Intact	-0.1	Negative
1235	5/25/21	Storage Shed 4	Exterior	Wall	Wood	A	Intact	0	Negative
1236	5/25/21	Storage Shed 4	Exterior	Wall	Wood	B	Intact	-0.1	Negative
1237	5/25/21	Storage Shed 4	Exterior	Wall	Wood	C	Intact	-0.1	Negative
1238	5/25/21	Storage Shed 4	Exterior	Wall	Wood	D	Intact	-0.1	Negative
1239	5/25/21	Storage Shed 4	Exterior	Wall	Wood	A	Intact	0	Negative
1240	5/25/21	Storage Shed 4	Exterior	Wall	Wood	B	Intact	0	Negative
1241	5/25/21	Storage Shed 5	Exterior	Wall	Wood	C	Intact	-0.1	Negative
1242	5/25/21	Storage Shed 5	Exterior	Wall	Wood	D	Intact	-0.1	Negative
1243	5/25/21	Storage Shed 5	Exterior	Door	Wood	D	Intact	0	Negative
1244	5/25/21	Storage Shed 5	Exterior	Door	Wood	D	Intact	-0.5	Negative
1245	5/25/21	Storage Shed 5	Exterior	Door frame	Wood	D	Intact	0	Negative
1246	5/25/21	Storage Shed 5	Exterior	Wall trim	Wood	D	Intact	0.1	Negative
1247	5/25/21	Storage Shed 5	Exterior	Wall trim	Wood	B	Intact	-0.1	Negative
1248	5/25/21	Storage Shed 5	Exterior	Door frame	Wood	B	Intact	0	Negative
1249	5/25/21	Storage Shed 6	Exterior	Door	Wood	B	Intact	0	Negative

Reading #	Date	Building	Location	Component	Substrate	Side	Condition	Concentration	Result
1250	5/25/21	Storage Shed 6	Exterior	Door	Wood	B	Intact	0	Negative
1251	5/25/21	Storage Shed 6	Exterior	Wall	Wood	B	Intact	-0.1	Negative
1252	5/25/21	Storage Shed 6	Exterior	Wall	Wood	C	Intact	0	Negative
1253	5/25/21	Storage Shed 6	Exterior	Wall	Wood	D	Intact	0	Negative
1254	5/25/21	Storage Shed 6	Exterior	Wall	Wood	A	Intact	-0.1	Negative
1255	5/25/21	Campus	Lunch Area by Multi-Purpose Room	Steps	Concrete	Lower	Intact	0.1	Negative
1256	5/25/21	Campus	Lunch Area by Multi-Purpose Room	Ramp	Concrete	Lower	Intact	0.2	Negative
1257	5/25/21			Calibrate				1	Positive
1258	5/25/21			Calibrate				1.1	Positive
1259	5/25/21			Calibrate				1	Positive
1260	5/25/21			Calibrate				1	Positive

APPENDIX B – SITE DRAWING

Shuey Elementary School

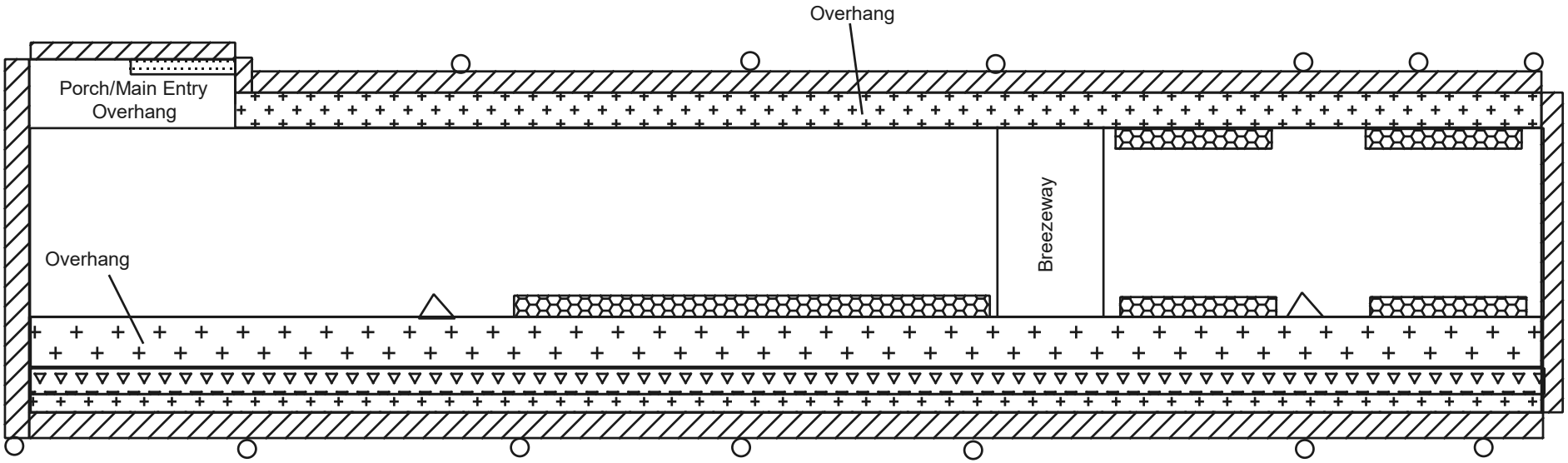


Client: Rosemead School District	**Project #:** 21-Z0046-0066	**Info:** Site Map

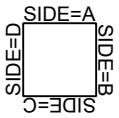
EXECUTIVE ENVIRONMENTAL
HEALTH & SAFETY SIMPLIFIED

Site: Shuey Elementary School-Painting Project
Adress: 8472 East Wells Street
Rosemead, California 91770

Administration/Classroom Building
(Rooms 1-4)



- Wood Fascia
- Wood Decorative Overhang Riser/Vertical Beams
- Wood Window Sash
- Wood Overhang
- Wood 9" x 6" Overhang Support Beam
- Metal Downspout
- Wood Fire Hose Case



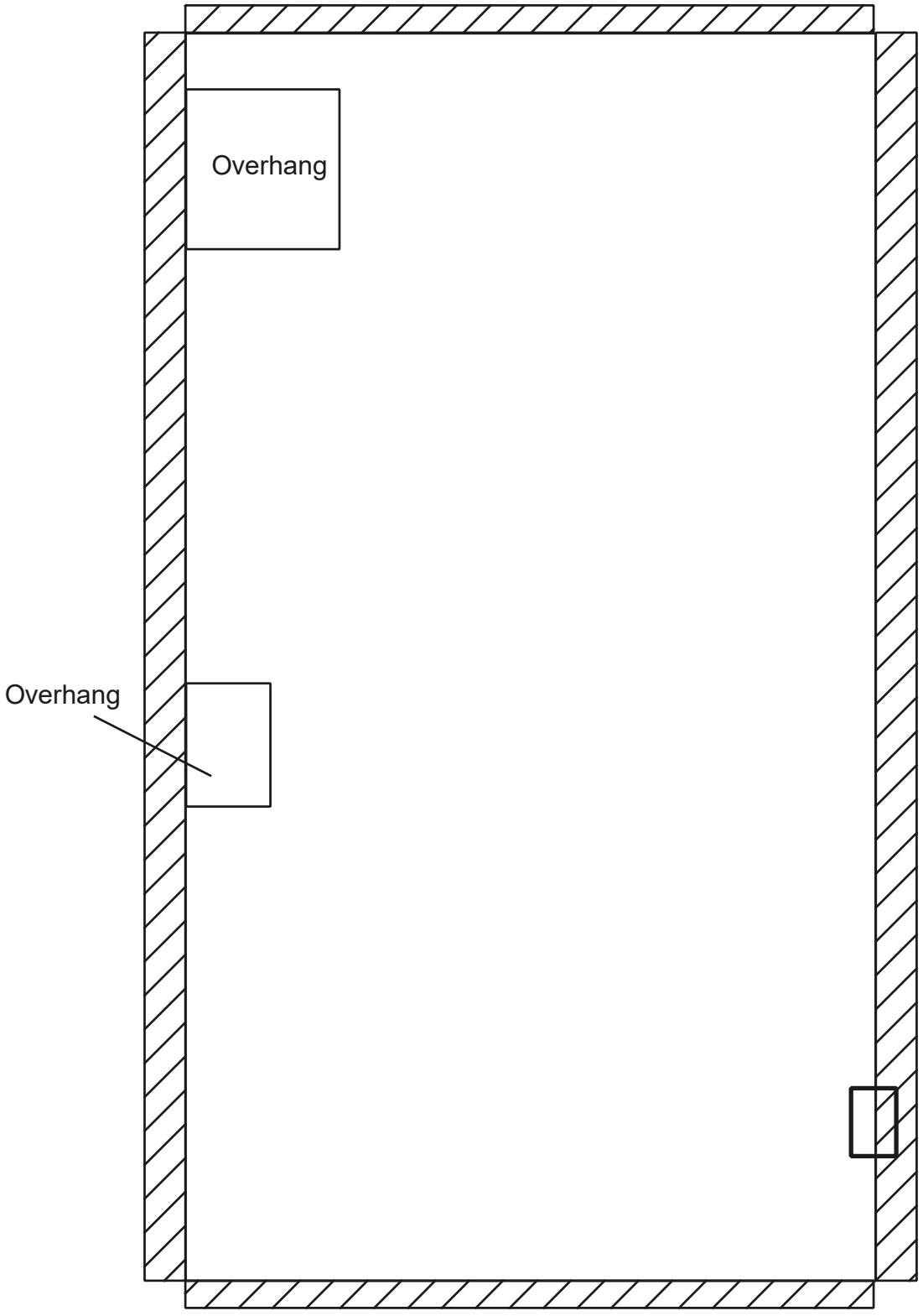
N

Client: Rosemead School District	**Project #:** 21-Z0046-0066	**Info:** Lead-Based Paint Identified

EXECUTIVE ENVIRONMENTAL
HEALTH & SAFETY SIMPLIFIED

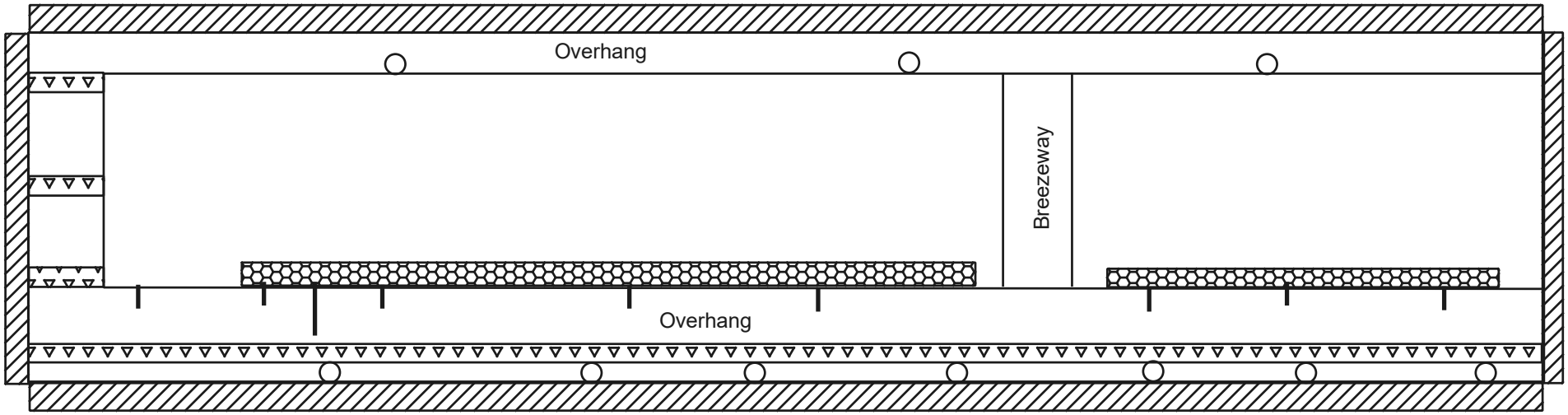
Site: Shuey Elementary School-Painting Project
Adress: 8472 East Wells Street
Rosemead, California 91770

Restroom Building

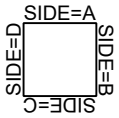


Client: Rosemead SD	**Project#:** 21-10046-0066	**Info:** Lead-Based Paint Identified
EXECUTIVE ENVIRONMENTAL HEALTH & SAFETY SIMPLIFIED		**Site:** Shuey ES - Painting Project **Address:** 3720 Rio Hondo Avenue Rosemead, CA 91770

Classroom Building
(Rooms 6-12)



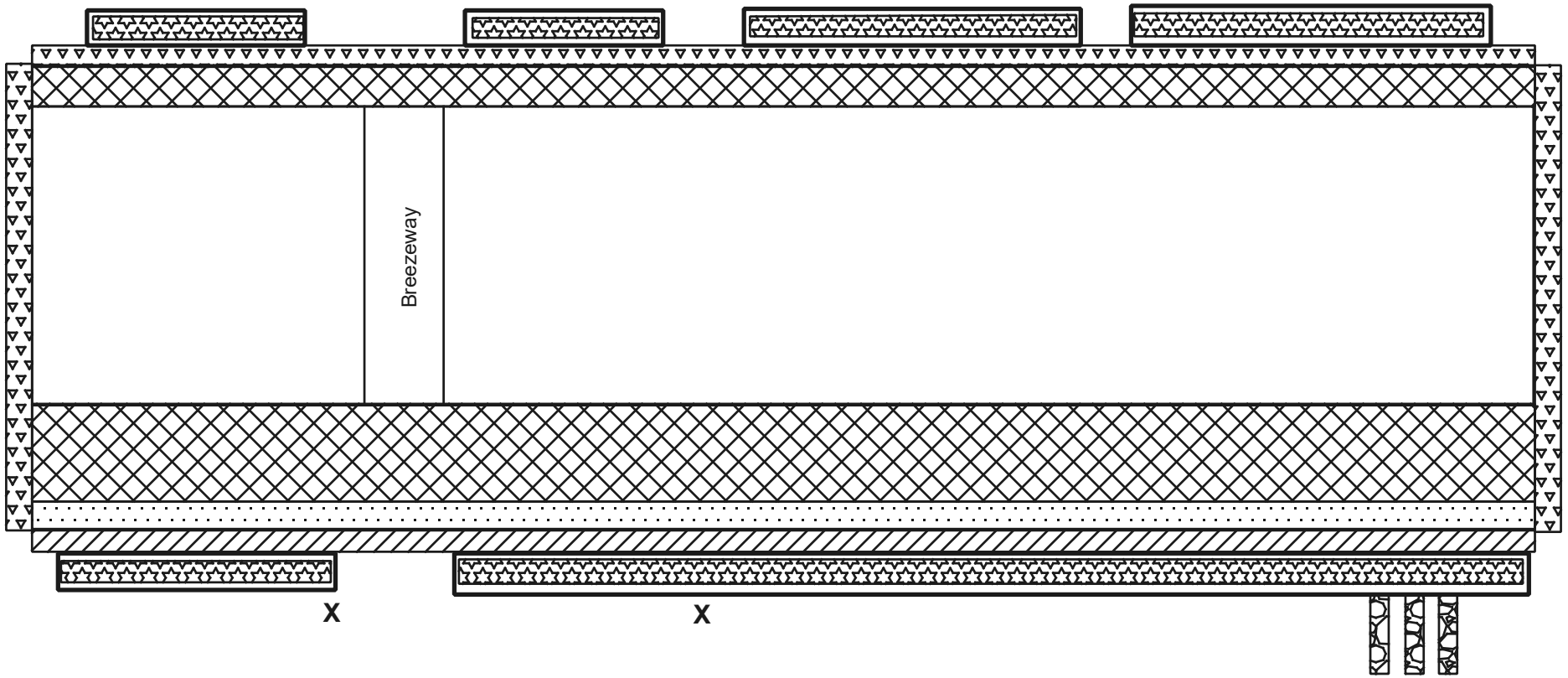
- Wood Window Sash
- Wood Fascia
- Wood 9" x 6" Overhang Support Beam
- | - Metal Conduit
- ○ - Metal Downspout



N

Client: Rosemead School District	**Project #:** 21-Z0046-0066	**Info:** Lead-Basd Paint Identified
EXECUTIVE ENVIRONMENTAL **HEALTH & SAFETY SIMPLIFIED**		**Site:** Shuey Elementary School-Painting Project **Adress:** 8472 East Wells Street Rosemead, California 91770

Classroom Building
(Rooms 13-16)



- Floor Stripe on Concrete
- Wood 9" x 6" Overhang Support Beam
- Wood Overhang and Overhang Rafters
- X - Porcelain Drinking Fontain
- Window (Sill, Sash, Casing)
- Wood Fascia

SIDE=A
SIDE=B
SIDE=C
SIDE=D

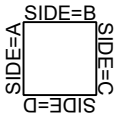
N

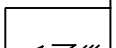
Client: Rosemead School District	**Project #:** 21-Z0046-0066	**Info:** Lead-Basd Paint Identified

EXECUTIVE ENVIRONMENTAL
HEALTH & SAFETY SIMPLIFIED

Site: Shuey Elementary School-Painting Project
Adress: 8472 East Wells Street
Rosemead, California 91770

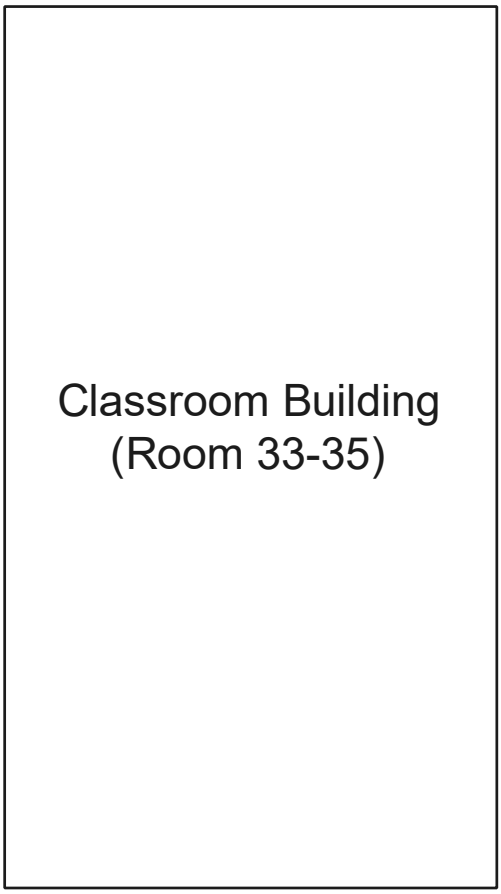
Multi-Purpose Building

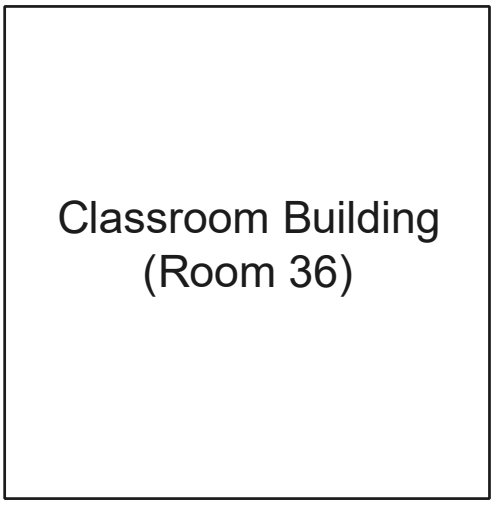


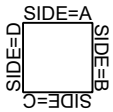


Client: Rosemead School District	**Project #:** 21-Z0046-0066	**Info:** No Lead-Based Paint Identified
EXECUTIVE ENVIRONMENTAL **HEALTH & SAFETY SIMPLIFIED**		**Site:** Shuey Elementary School **Address:** 8471 Wells Street Rosemead, CA 91770

Classroom Building
(Room 33-35)

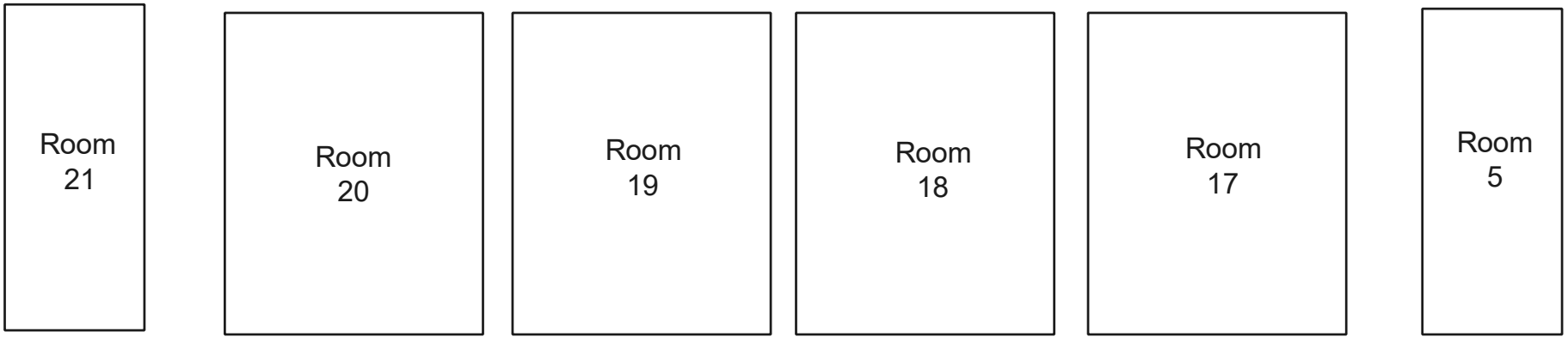


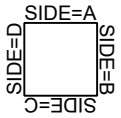




Client: Rosemead SD	**Project#:** 21-10046-0066	**Info:** No Lead-Based Paint Identified
EXECUTIVE ENVIRONMENTAL **HEALTH & SAFETY SIMPLIFIED**		**Site:** Shuey ES - Painting Project **Address:** 3720 Rio Hondo Avenue Rosemead, CA 91770

Portables
Exterior

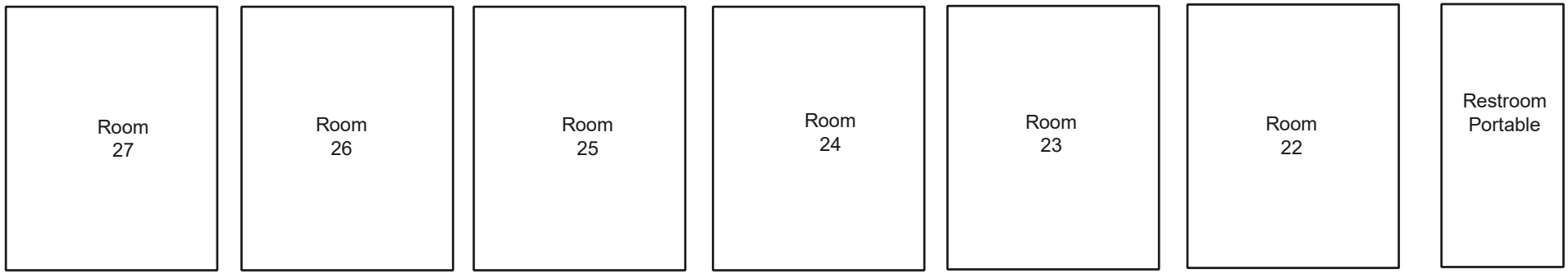


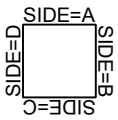


N

Client: Rosemead School District	**Project #:** 21-Z0046-0066	**Info:** No Lead-Based Paint Identified
EXECUTIVE ENVIRONMENTAL **HEALTH & SAFETY SIMPLIFIED**		**Site:** Shuey Elementary School-Painting Project **Adress:** 8472 East Wells Street Rosemead, California 91770

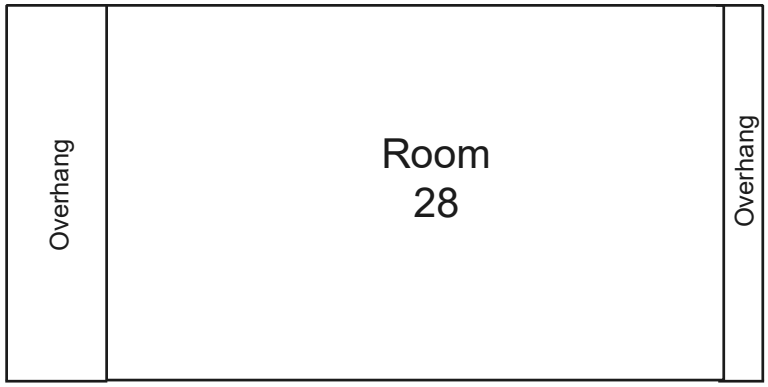
Portables
Exterior

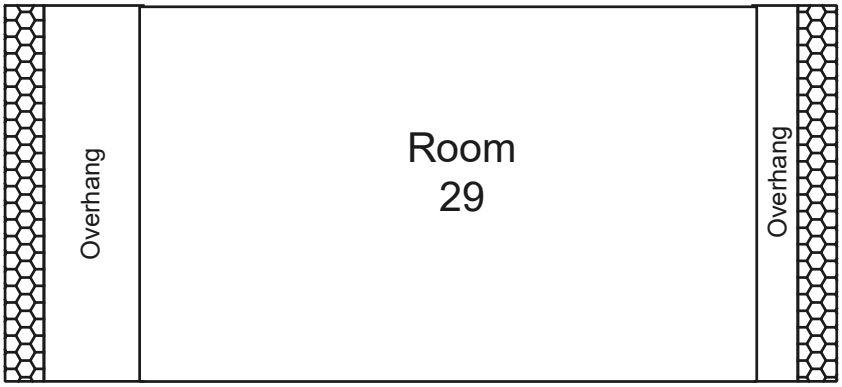


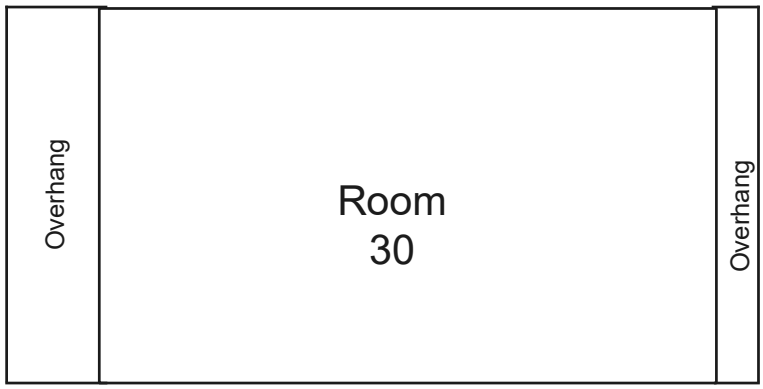


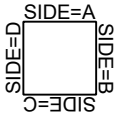
Client: Rosemead School District	**Project #:** 21-Z0046-0066	**Info:** No Lead-Based Paint Identified
EXECUTIVE ENVIRONMENTAL **HEALTH & SAFETY SIMPLIFIED**		**Site:** Shuey Elementary School-Painting Project **Adress:** 8472 East Wells Street Rosemead, California 91770

Portables
(Rooms 28-30)





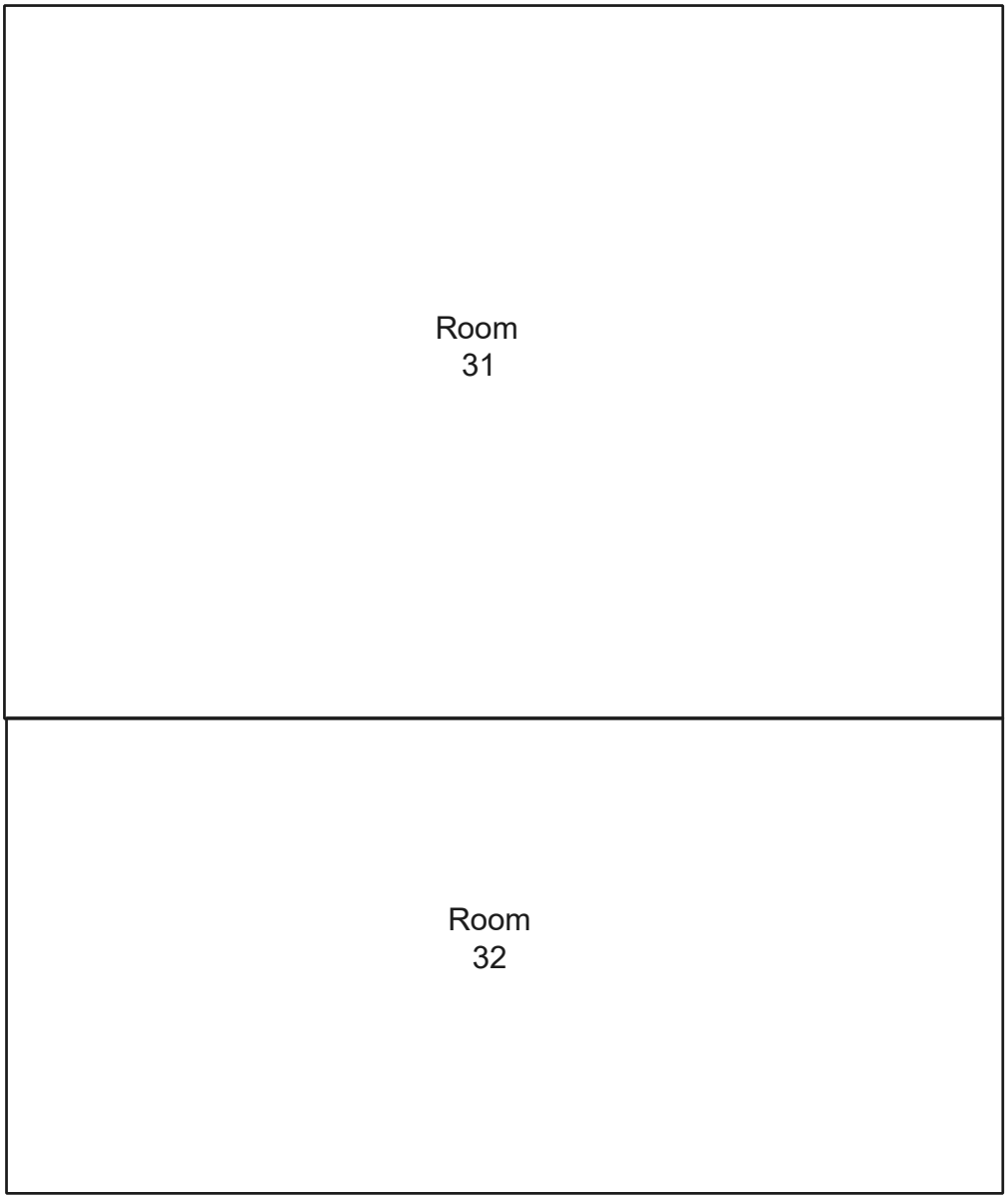


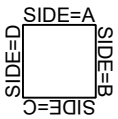


- Gutter (Metal)

Client: Rosemead SD	**Project#:** 21-10046-0066	**Info:** Lead-Based Paint Identified
EXECUTIVE ENVIRONMENTAL HEALTH & SAFETY SIMPLIFIED		**Site:** Shuey ES - Painting Project **Address:** 3720 Rio Hondo Avenue Rosemead, CA 91770

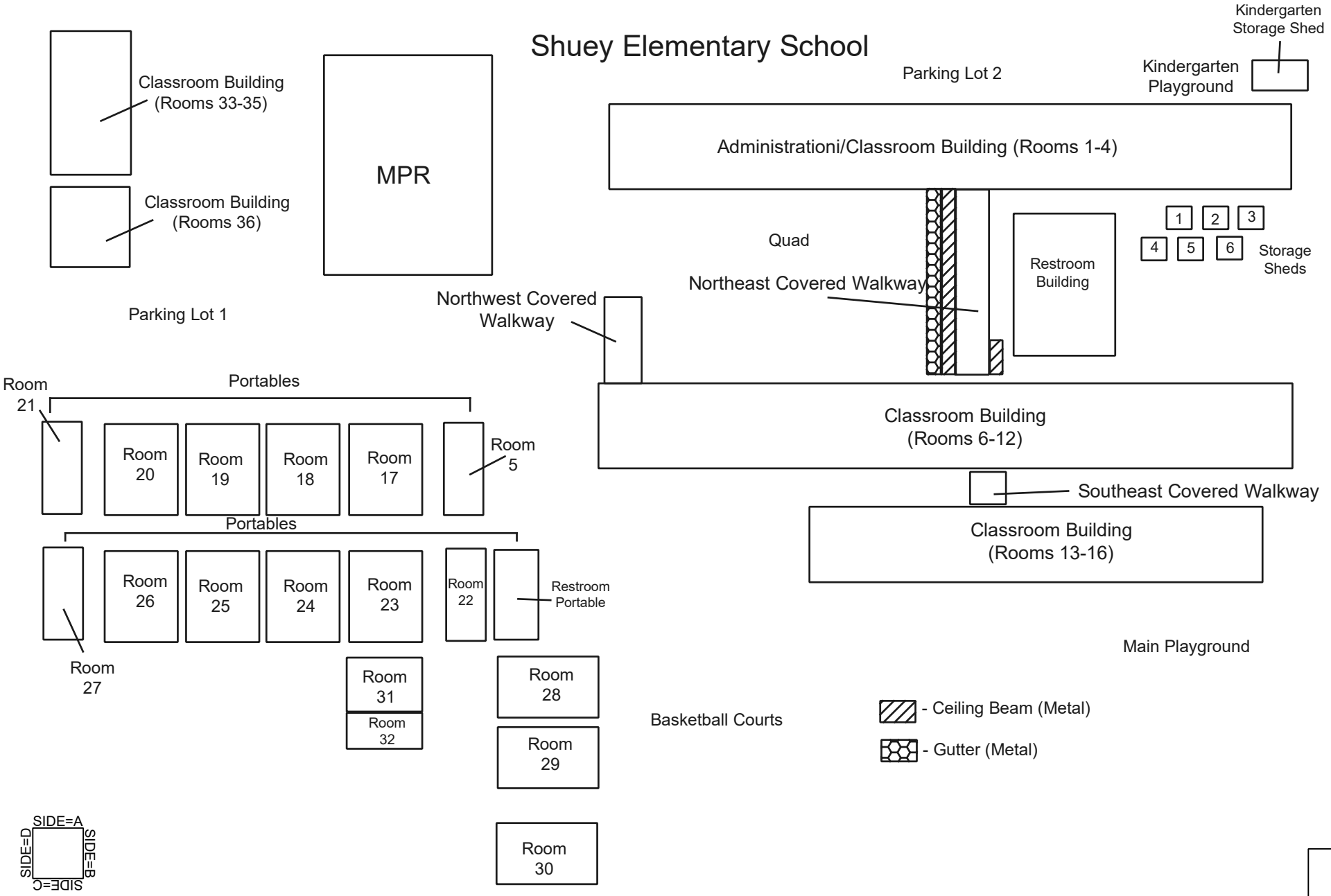
Portables
(Rooms 31-32)





Client: Rosemead SD	**Project#:** 21-10046-0066	**Info:** No Lead-Bsed Paint Identified
EXECUTIVE ENVIRONMENTAL **HEALTH & SAFETY SIMPLIFIED**		**Site:** Shuey ES - Painting Project **Address:** 3720 Rio Hondo Avenue Rosemead, CA 91770

Shuey Elementary School



Client: Rosemead School District	**Project #:** 21-Z0046-0066	**Info:** Lead-Based Paint Identified

EXECUTIVE ENVIRONMENTAL
HEALTH & SAFETY SIMPLIFIED

Site: Shuey Elementary School-Painting Project
Adress: 8472 East Wells Street
Rosemead, California 91770

APPENDIX C – LEAD HAZARD EVALUATION REPORT

State of California—Health and Human Services Agency | California Department of Public Health

LEAD HAZARD EVALUATION REPORT

Section 1 — Date of Lead Hazard Evaluation 6/1 & 6/2, 2021

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
3907 Rosemead Blvd.	Rosemead	Los Angeles	91770

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

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

Name	Telephone number
Rosemead SD (Harold Sullins)	909-908-4975

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
Matthew Barna	626-441-7050

Address [number, street, apartment (if applicable)]	City	State	Zip Code
310 E. Foothill Blvd. Ste 200	Arcadia	CA	91006

CDPH certification number	Signature	Date
LRC-00003243	Matthew Barna	6/2/2021

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.