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3/20/2020

Henry + Associates Project No. 19-32-047
DSA Application No. 02-118048

ADDENDUM NO. 03
MODERNIZATION HOUSTON SCHOOL
Lodi Unified School District
Lodi, California



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Henry + Associates Architects

1. ALL WORKMANSHIP, MATERIALS, APPLIANCES AND EQUIPMENT which may be included in the following items shall be the same relative quality as described for similar work set forth in the original or main specifications of which these Addendum items shall be considered a part.
2. ADDENDUM DRAWINGS (included in the back of this Addendum).
The following Addendum drawings modify or supplement the issued bid documents:

None

3. PROJECT MANUAL:

A. Bid Form:

1. Replace Bid Form with Bid Form attached to this addendum.

B. Add spec section attached to this addendum:

1. Asbestos and Lead Work Practices and Disposal.

C. Section 01 22 00, Alternates and Unit Pricing: Delete section entirely.

4. DRAWINGS:

A. Sheet A2.1.P3: Delete scope of work on this sheet entirely.

B. Sheet E2.3E1-6, P3: No changes. All work on sheet remains in scope of work.

5. OTHER:

A. Pre-Bid Sign-In Sheet is added at the back of this addendum.

* * * END OF ADDENDUM * * *

BID FORM AND PROPOSAL

To: Governing Board of the Lodi Unified School District ("District" or "Owner")

From: _____
(Proper Name of Bidder)

The undersigned declares that Bidder has read and understands the Contract Documents, including, without limitation, the Notice to Bidders and the Instructions to Bidders, and agrees and proposes to furnish all necessary labor, materials, and equipment to perform and furnish all work in accordance with the terms and conditions of the Contract Documents, including, without limitation, the Drawings and Specifications of Bid No. _____.

PROJECT: Modernization Houston School

("Project" or "Contract") and will accept in full payment for that Work the following total lump sum amount, all taxes included:

<div style="text-align: right; margin-bottom: 5px;">_____ dollars \$ _____</div> <p><i>BASE BID</i></p> <p><i>Bidder acknowledges and agrees that the Base Bid accounts for any and all Allowance(s), Total Cost for Unit Prices, and OCIP excluded costs.</i></p>

Additive/Deductive Alternates: NONE**Additional Detail Regarding Calculation of Base Bid**

1. ~~**Unit Prices.** The Bidder's Base Bid includes the following unit prices, which the Bidder must provide and the District may, at its discretion, utilize in valuing additive and/or deductive change orders (Unit Prices shall include all labor, materials, services, profit, overhead, insurance, bonds, taxes, and all other incidental costs of Contractor, subcontractors, and suppliers):~~

SCHEDULE OF UNIT PRICES

<u>Item No.</u>	<u>Description</u>	<u>Unit of Measure</u>	<u>Estimated Quantity</u>	<u>Unit Price</u>	<u>Total Cost = Unit Price x Estimated Quantity (Included in Base Bid)</u>
				\$ _____	\$ _____
				\$ _____	\$ _____

~~Where scope of Work is decreased, all Work pertaining to the item, whether specifically stated or not, shall be omitted, and where scope of Work is increased, all work pertaining to that item required to render same ready for use on the Project in accordance with intentions of the Drawings and Specifications shall be included in the above agreed-upon price amount.~~

2. **Allowance.** The Bidder's Base Bid and each alternate shall include an allowance for unforeseen items. The allowance will be a stipulated sum/price of **Three Hundred Thousand Dollars (\$300,000.00)** as prescribed in Section 01 21 00.

The above allowance shall only be allocated for unforeseen items relating to the Work. Contractor shall not bill for or be due any portion of this allowance unless the District has identified specific work, Contractor has submitted a price for that work or the District has proposed a price for that work, the District has accepted the cost for that work, and the District has prepared an Allowance Expenditure Directive incorporating that work. Contractor hereby authorizes the District to execute a unilateral deductive change order at or near the end of the Project for all or any portion of the allowance not allocated.

3. ~~**OCIP.** Bidder specifically acknowledges and understands that if it is awarded the Contract, that it and its subcontractors shall participate in and comply with the owner-controlled or wrap-up insurance program (OCIP). Bidder and all of its subcontractors are required to exclude the cost of insurance provided by the OCIP from its bid price for the proposed scope of work, including subcontracted work whether or not the subcontractor is identified at the time of the bid. The excluded amount must be shown separately below:~~

~~Excluded Cost of Insurance~~

<div>_____ dollars \$ _____</div> <div>Deductive</div>

4. The undersigned has reviewed the Work outlined in the Contract Documents and fully understands the scope of Work required in this Proposal, understands the construction and project management function(s) is described in the Contract Documents, and that each Bidder who is awarded a contract shall be in fact a prime contractor, not a subcontractor, to the District, and agrees that its Proposal, if accepted by the District, will be the basis for the Bidder to enter into a contract with the District in accordance with the intent of the Contract Documents.
5. The undersigned has notified the District in writing of any discrepancies or omissions or of any doubt, questions, or ambiguities about the meaning of any of the Contract Documents, and has contacted the Construction Manager before bid date to verify the issuance of any clarifying Addenda.
6. The undersigned agrees to commence work under this Contract on the date established in the Contract Documents and to complete all work within the time specified in the Contract Documents.

7. The liquidated damages clause of the General Conditions and Agreement is hereby acknowledged.
8. It is understood that the District reserves the right to reject this bid and that the bid shall remain open to acceptance and is irrevocable for a period of ninety (90) days.
9. The following documents are attached hereto:
 - Bid Bond on the District's form or other security
 - Designated Subcontractors List
 - Site Visit Certification
 - Non-Collusion Declaration
 - Iran Contracting Act Certification
10. Receipt and acceptance of the following Addenda is hereby acknowledged:

No. _____, Dated _____	No. _____, Dated _____
No. _____, Dated _____	No. _____, Dated _____
No. _____, Dated _____	No. _____, Dated _____
No. _____, Dated _____	No. _____, Dated _____
No. _____, Dated _____	No. _____, Dated _____

11. Bidder acknowledges that the license required for performance of the Work is a _____ license.
12. The undersigned hereby certifies that Bidder is able to furnish labor that can work in harmony with all other elements of labor employed or to be employed on the Work.
13. Bidder specifically acknowledges and understands that if it is awarded the Contract, that it shall perform the Work of the Project while complying with all requirements of the Department of Industrial Relations.
- ~~14. Bidder specifically acknowledges and understands that if it is awarded the Contract, that it shall perform the Work of the Project while complying with the Davis-Bacon Act, applicable reporting requirements, and any and all other applicable requirements for federal funding. If a conflict exists, the more stringent requirement shall control.~~
15. The Bidder represents that it is competent, knowledgeable, and has special skills with respect to the nature, extent, and inherent conditions of the Work to be performed. Bidder further acknowledges that there are certain peculiar and inherent conditions existent in the construction of the Work that may create, during the Work, unusual or peculiar unsafe conditions hazardous to persons and property.

16. Bidder expressly acknowledges that it is aware of such peculiar risks and that it has the skill and experience to foresee and to adopt protective measures to adequately and safely perform the Work with respect to such hazards.
17. Bidder expressly acknowledges that it is aware that if a false claim is knowingly submitted (as the terms "claim" and "knowingly" are defined in the California False Claims Act, Gov. Code, § 12650 et seq.), the District will be entitled to civil remedies set forth in the California False Claim Act. It may also be considered fraud and the Contractor may be subject to criminal prosecution.
18. The undersigned Bidder certifies that it is, at the time of bidding, and shall be throughout the period of the Contract, licensed by the State of California to do the type of work required under the terms of the Contract Documents and registered as a public works contractor with the Department of Industrial Relations. Bidder further certifies that it is regularly engaged in the general class and type of work called for in the Contract Documents.

Furthermore, Bidder hereby certifies to the District that all representations, certifications, and statements made by Bidder, as set forth in this bid form, are true and correct and are made under penalty of perjury.

Dated this _____ day of _____ 20 ____

Name of Bidder: _____

Type of Organization: _____

Signed by: _____

Title of Signer: _____

Address of Bidder: _____

Taxpayer Identification No. of Bidder: _____

Telephone Number: _____

Fax Number: _____

E-mail: _____ Web Page: _____

Contractor's License No(s): No.: _____ Class: _____ Expiration Date: _____

No.: _____ Class: _____ Expiration Date: _____

No.: _____ Class: _____ Expiration Date: _____

Public Works Contractor Registration No.: _____

END OF DOCUMENT

Limited Asbestos and Lead Abatement Specifications


Houston School
4600 East Acampo Road
Acampo, California


March 19, 2020

Terracon Project No. R1207078

Prepared for:
Lodi Unified School District
Lodi, California

Prepared by:
Terracon Consultants, Inc.
Emeryville, CA


Prepared by: William Frieszell
Senior Industrial Hygienist
CAC #12-4853


Reviewed by: Steff Steiner
Office Manager
CAC #92-0850

Offices Nationwide
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Terracon

Geotechnical ■ Environmental ■ Construction Materials ■ Facilities

ASBESTOS AND LEAD WORK PRACTICES AND DISPOSAL

PART 1 - GENERAL

1.1 SUMMARY

- A. The general scope of work includes limited Class II & III Asbestos Operations to be undertaken during the performance of multiple projects associated with modernization upgrades throughout the Houston Middle School campus located at 4600 East Acampo Road in Acampo, California.
- B. It should be noted that penetrations or similar small-scale impacts to materials are also anticipated and are covered by this specification. The contractor shall interface with the architect in order to identify these locations prior to submitting a bid.
- C. In addition, numerous types of paint, window putties and ceramic glazing compounds have been sampled and confirmed to contain lead. Based on the age of the referenced campus, all work impacting lead-containing materials must be conducted in accordance with the OSHA Lead in Construction standard 8 CCR 1532.1.
- D. The Contractor is responsible for conducting a thorough site visit and for reviewing the information in this specification as well as reviewing application local, state and federal regulations as they pertain to hazardous materials related activities.

1.2 COMPLIANCE AND INTENT

- A. With the exception of limited removal of drywall and joint compound within storage rooms in Building B, this document may not be used for any form of operations of a scale larger than minor penetrations to affected finishes for the purposes of installing new equipment. This document will not apply to activities requiring damage to either thermal systems insulation (TSI) or surfacing materials as defined by the California Division of Occupational Safety and Health (Cal-OSHA).
- B. The Contractor is responsible for repair, to the satisfaction of the District, of surfaces not scheduled for demolition that become damaged as a result of abatement or demolition activities. All unscheduled repair work shall be at no increase to contract price.
- C. This project involves limited impacts to known asbestos and lead containing materials within the interiors and exteriors areas of the affected site. During all work, provide monitoring and worker protective equipment in accordance with the (Cal-OSHA and as required by this specification. Where there is conflict, the most stringent requirement shall apply.
- D. The work covered by this specification includes the limited handling, removal, and proper disposal of asbestos-containing materials (ACMs) and limited lead containing materials. All hazardous materials shall be removed and disposed of according to all federal, state and local regulations. The Contractor shall determine if additional hazardous materials will be impacted by the scope of the hazardous materials related work activities.

- E. During the performance of Class III contractor assist activities, the abatement workers shall receive EPA-accredited training and be certified for asbestos abatement work. For the purposes of this project, all workers shall receive at least 16 hours of training and shall be supervised by a competent person holding current accreditation as an AHERA Contractor Supervisor. Any contractors involved in the demolition of surfaces containing lead shall conduct all work in accordance with Cal-OSHA's lead construction standard, Title 8 CCR 1532.1.
- F. All employees engaged in limited Class II abatement of wall systems shall receive at least 40 hours of EPA-accredited worker training and shall be certified for asbestos abatement work. These activities shall be supervised by a competent person holding current accreditation as an AHERA Contractor Supervisor.
- G. Furnish all labor, materials, facilities, equipment, services, employee training, medical monitoring, permits and agreements necessary to perform the work required for asbestos and lead related work in accordance with this document.
- H. Comply with all federal, state, and local regulations pertaining to asbestos and lead removal, storage, transportation and disposal; employee health and safety; Contractor certifications; and all licenses, permits, and training.
- I. Work on all affected premises shall be confined to areas designated in the Contract Documents. Materials and equipment shall be stored within areas designated by the District. Should additional space be required, the Contractor shall request permission for additional space and shall adequately safeguard occupants from associated health and safety hazards.
- J. Perform all work specified herein with competent persons trained, knowledgeable and qualified in state-of-the-art techniques relating to asbestos and lead abatement, handling, and the subsequent cleaning of contaminated areas.
- K. During removal activities, the Contractor shall protect against contamination of soil, water, plant life, sensitive building finishes, adjacent building areas, and shall ensure that there is no airborne release of dusts. The District may collect air samples in the building and in adjacent areas to evaluate the Contractor's performance. Evidence of settled dust or airborne levels of contaminants above background will require the implementation of additional controls at no increase to contract price.
- L. It is the Contractor's responsibility to determine the quantities of ACMs and lead materials and surfaces that will require removal or other impact prior to commencement of the project. The Contractor shall conduct a site visit to determine exact locations of materials that will require abatement. Should abatement of any scale be required in order to complete the project, the contractor shall utilize an appropriately accredited and licensed asbestos abatement firm to complete required activities.
- M. This section provides appropriate protocols for handling and disposal of asbestos and lead containing materials. If additional suspect ACMs are discovered during the course of the construction, immediately notify the District and/or the District's Environmental Consultant.

- N. Asbestos and lead containing materials removed during the construction activities shall be disposed of in an approved manner complying with all applicable federal, state, and local regulations. Appropriate waste manifests or letters of salvage shall be furnished to the District thereby limiting the District's liability for improperly salvaged items. Materials are conveyed to the Contractor "as is," without any warranty, expressed or implied, including but not limited to, any warranty to marketability or fitness for a particular purpose, or any purpose.

1.3 DEFINITIONS

- A. The following definitions pertain to work of this section.
1. Abatement: Process of controlling fiber release from ACMs including encapsulation, enclosure, controlled renovation procedures, removal, clean-up and disposal.
 2. ACM: Asbestos-containing material
 3. Action Level - Lead: Employee exposure without regard to the use of respirators, to an airborne concentration of 30 micrograms per cubic meter of air (30 g/m³) calculated as an 8-hour time-weighted average (TWA).
 4. Activity Class/Category - Lead: The designation assigned to work activities specified for removal of lead by pressure blasting, grinding, scraping, needle-gunning, chiseling, hammering, or wire brushing. Activity Classes I through III determine the minimum surveillance measures and exposure controls of the Contractor(s).
 5. Aggressive Sampling: Air sampling either during or following the agitation of the air.
 6. AHERA: Asbestos Hazard Emergency Response Act (40 CFR Part 763).
 7. Airlock: A system for permitting ingress and egress with minimum air movement between a contaminated area and uncontaminated areas. Typically consists of two curtained or gasketed doorways separated by a distance of at least six feet such that one passes through one doorway into the airlock, allowing the doorway to close off the opening. This airlock must be maintained in uncontaminated condition at all times.
 8. Ambient Air Quality: The quality of air (in terms of airborne fiber/lead content) that is present in a given space.
 9. Area Monitoring: Sampling of airborne asbestos fiber/lead concentrations within the work area and outside the work area. Sampling shall represent airborne concentrations that may reach the breathing zone.
 10. Asbestos Fibers: Refers to asbestos fibers having an aspect ratio of 3:1, and those fibers longer than five (5) microns.
 11. Asbestos Permissible Exposure Limit (PEL): A level of airborne fibers specified by OSHA as an occupational exposure standard for asbestos. This level represents the 8-hour time-weighted average of 0.1 fibers per cubic centimeter of air as measured by Phase Contrast Microscopy (PCM) analytical method.

12. Asbestos-Containing Material (ACM): Those manufactured products and construction materials including structural and mechanical building materials, as well as packings and gaskets that contain more than one percent (1.0%) asbestos by weight.
13. Asbestos: Asbestos includes asbestiform varieties of serpentinite (chrysotile), riebeckite (crocidolite), cummingtonite-gunerite (amosite), anthophyllite, tremolite, and actinolite. For the purposes of determining worker respiratory protection, both the asbestiform and non-asbestiform of the above minerals, and any chemically treated or altered materials shall be considered as asbestos.
14. Authorized Visitor: Designated employees or consultants for the District and representatives of any federal, state or local regulatory or other agency having jurisdiction over the project.
15. Baseline: Refers to the background levels of asbestos monitored before abatement.
16. Breathing Zone: A hemisphere forward of the shoulders and head with a radius of approximately six to nine inches.
17. Breach: A rift or gap in the critical or secondary barriers that allow egress of air from the containment to outside, or vice versa.
18. Bridging Encapsulant: An encapsulant that forms a discrete layer on the surface of an in-situ asbestos matrix.
19. Cal-OSHA: State of California, Occupational Safety & Health Administration.
20. CDPH: California Department of Public Health
21. Chain-of-Custody: A legal concept involving documentation of the physical possession of a sample(s) from the moment it is collected, transported, analyzed, and ultimately stored in an archive.
22. Change Rooms: Refers to the two chambers in the decontamination area used to change into and out of protective clothing.
23. Certified Industrial Hygienist (CIH): A person certified by the American Board of Industrial Hygiene.
24. Clean Room: An uncontaminated area or room that is part of the worker decontamination enclosure system, with provisions for storage of workers' street clothes and protective equipment.
25. Clearance Level: Clearance level for samples analyzed by PCM will be less than 0.01 fibers per cubic centimeter of air and for TEM will be less than 70 structures per square millimeter ($<70 \text{ s/mm}^2$). Samples may be collected by aggressive or non-aggressive sampling methods and the minimum air volume shall be 1,200 liters.
26. Competent Person: One who is capable of identifying existing and predictable hazards and who has the authority to take prompt corrective measures to eliminate them.

27. Critical Barrier: A unit of temporary construction that provides the only separation between asbestos work area and an adjacent potential occupied space. This includes the decontamination unit, perimeter walls, ceilings, penetrations and any temporary critical barriers between the work area and the uncontaminated environment.
28. CSLB: Contractors State Licensing Board
29. Decontamination Area: Area which is constructed to provide the means for workers to store clothing, equipment and other articles, and to properly remove contamination upon concluding work activities that result in exposure to these hazardous materials.
30. DOP: Dioctylphthalate, the challenge aerosol used to perform on-site leak testing of HEPA filtration equipment.
31. DOT: Federal Department of Transportation.
32. DOSH: Division of Occupational Safety & Health (see also Cal-OSHA)
33. Decontamination Unit: Refers to system of airlocks used to decontaminate personnel, waste bags, equipment, etc. when exiting the work area. A decontamination unit shall be set up for each containment area.
34. Demolition: The wrecking or taking out of any load-supporting structural member of a facility together with any related handling operations or the intentional burning of any facility.
35. Disposal Bag: Minimum six (6) mil thick leak-tight plastic bags used for transporting asbestos waste from a work area to disposal or shipping container. Each disposal bag must have required labels per Title 8 CCR 1529 (Cal-OSHA asbestos rule), 5194 (HAZCOM). RACM waste must be additionally labeled according to 49 CFR 171-179 (USDOT), and 40 CFR 61 Subpart M (NESHAP). Hazardous waste disposal bags must be labeled with generator's name, address, site location, generator number, and the following information:

CONTAINS ASBESTOS FIBERS
 AVOID CREATING DUST
 CANCER AND LUNG DISEASE HAZARD
 AVOID BREATHING AIRBORNE ASBESTOS
 RQ WASTE ASBESTOS, 9 NA 2212 PG III
 (Class 9 placard)
 HAZARDOUS WASTE
 STATE AND FEDERAL LAW
 PROHIBITS IMPROPER DISPOSAL
 IF FOUND, CONTACT THE NEAREST
 POLICE OR PUBLIC SAFETY
 AUTHORITY OR THE CALIFORNIA
 DEPARTMENT OF TOXIC SUBSTANCES CONTROL

36. District: Lodi Unified School District

37. District's Environmental Consultant: Environmental Consulting firm and its representatives retained to provide compliance oversight and monitoring for the Contractor's asbestos abatement work activities.
38. Encapsulant: A liquid material that can be applied to ACMs that controls the possible release of asbestos fibers from the material either by creating a membrane over the surface (bridging) or by penetrating into the material and binding its components together (penetrating encapsulant).
39. Encapsulation: A specified procedure necessary to coat ACMs or asbestos contaminated surfaces with an encapsulant to control the possible release of asbestos fibers into the ambient air.
40. Enclosure: The construction of an airtight, impermeable, permanent barrier surrounding the ACM to prevent the release of asbestos fibers into the air.
41. Equipment Decontamination Enclosure System: A decontamination enclosure system for materials and equipment, typically in a designated area of the work area, and including a washroom, a holding area, and an uncontaminated area.
42. Equipment Room: A contaminated area or room that is part of the worker decontamination enclosure system, with provisions for storage of contaminated clothing and equipment. The equipment room shall be kept clean from asbestos-containing debris at all times.
43. Excursion Limit: A California Code of Regulations (Title 8 CCR 1529) requirement that ensures no employee exposed to airborne concentrations of asbestos in excess of 1.0 fibers per cubic centimeter of air as averaged over a sampling period of thirty (30) minutes.
44. Filter: A media component used in respirators to remove solid or liquid particles from the inspired air.
45. Fixed Object: A unit of equipment or furniture in the work area that cannot be removed from the work area.
46. Friable Asbestos-Containing Material: Material that contains more than 1.0% asbestos by weight, and that can be crumbled, pulverized or reduced to powder by hand pressure when dry.
47. Foreman: An individual who typically fulfills the duties of "competent person" as defined by Title 8 CCR 1529. This individual must supply documentation of a passing grade in a Cal-OSHA accredited course in Asbestos Contractor/Supervisor training. The foreman must be on-site during all abatement work.
48. Glove Bag: A polyethylene bag with two inward projecting long sleeve gloves, designed to enclose an object from which an ACM is to be removed. Bags shall be seamless at the bottom, have a minimum thickness of 6 mils, and shall be labeled appropriately.
49. Glove Bag Technique: A method for removing ACM from heating, ventilation and air conditioning (HVAC) ducts, piping runs, valves, joints, elbows, and other non-planar surfaces. The glove bag is constructed and installed in such a manner that it surrounds the object or material to be removed and contains

all asbestos fibers released during the process. Secondary containment shall be provided for all glove bag work unless otherwise noted.

50. Gross or Full Abatement: Designated rooms, spaces, or areas of the project that have been totally sealed, contained in polyethylene, equipped with decontamination enclosure systems, and placed under negative pressure.
51. HEPA: High Efficiency Particulate Air filter capable of filtering out airborne particulate 0.3 microns or greater in diameter at 99.97 percent efficiency.
52. Lead: Toxic metallic element of atomic number 82, or any other materials, substances or compounds that may contain lead. Note for metal painted surfaces lead is often found in combination with chromates. For the purposes of this specification, lead also refers to lead-chromate paints.
53. Lead Hazardous Waste: Paint, sludge, debris or cleaning materials are to be treated as a hazardous waste if laboratory results indicate a lead (Pb) concentration of 5 milligrams per liter (mg/l) or greater using the EPA approved Toxicity Characteristic Leaching Procedure (TCLP) test. The waste will also be classified as hazardous waste if the Total Threshold Limit Concentration (TTLC) of measured lead is greater than 350 mg/kg or if the Soluble Threshold Limit Concentration (STLC) of measured lead is greater than or equal to 5 mg/l.
54. Manifest: The document authorized by both Federal and State authorities for tracking the movement of ACMs.
55. Movable Object: A unit of equipment or furniture in the work area that can be removed from the work area (e.g., smoke detectors, lights, etc.)
56. Negative Pressure Respirator: A respirator in which the air pressure inside the respiratory inlet covering is positive during exhalation in relation to the air pressure of the outside atmosphere, and negative during inhalation in relation to the air pressure of the outside atmosphere.
57. Negative Pressure: Air pressure lower than surrounding areas, generally caused by exhausting air from a sealed space (work area).
58. NESHAP: National Emission Standard for Hazardous Air Pollutants – EPA Regulation 40 CFR Subpart M, Part 61.
59. NIOSH: National Institute for Occupational Safety and Health: Sets test standards, analytical methods, and certifies performance of various respirator designs (research institute within Federal OSHA).
60. NIST: National Institute of Standards and Technology: Administers the NVLAP Program.
61. NOA – Naturally Occurring Asbestos. Found in soil, fill and concrete.
62. NVLAP: National Voluntary Laboratory Accreditation Program – evaluates and certifies laboratories doing PLM and TEM analyses.
63. Passive Sampling: Refers to air sampling with no air agitation.
64. Permissible Exposure Limits (PELs) - Asbestos: A level of airborne fibers specified by OSHA as an occupational exposure standard for asbestos. This

level represents the 8-hour time-weighted average of 0.1 fibers per cubic centimeter of air and 30-minute excursion limit of 1.0 fibers per cubic centimeter of air as measured by Phase Contrast Microscopy (PCM) analytical method.

65. Permissible Exposure Level (PEL) - Lead: An eight-hour time weighted average concentration of 50 micrograms of lead per cubic meter of air (50 µg/m³).
66. Personal Monitoring: Sampling for asbestos and lead concentrations within the breathing zone of an employee.
67. Phase Contrast Microscopy (PCM): Technique using a light microscope equipped to provide enhanced contrast between the fibers and the background. Filters are cleared with a chemical solution and viewed through the microscope at a magnification of approximately 400X. This method does not distinguish between fiber types and only counts those fibers longer than 5 microns and wider than approximately 0.25 microns. Because of these limitations, fiber counts by PCM typically provide only an index of the total concentration of airborne asbestos in the environment monitored.
68. Polarized Light Microscopy (PLM): An optical microscope technique used to identify asbestos content and distinguish between different types of asbestos fibers by their shape and unique optical properties.
69. Powered Air Purifying Respirator (PAPR): A full facepiece respirator that has the breathing air powered to the wearer after it has been purified through a filter.
70. Protection Factor: The ratio of the ambient concentration of an airborne substance to the concentration of the substance inside the respirator at the breathing zone of the wearer. The protection factor is a measure of the degree of protection provided by a respirator to the wearer.
71. Remodel: Replacement or improvement of an existing building or portion thereof where exposure to airborne asbestos may result. Remodel includes, but is not limited to, installation of materials, demolition, cutting, patching, and removal of building materials.
72. Respirator: A device designed to protect the wearer from the inhalation of harmful atmospheres.
73. Soluble Threshold Limit Concentration (STLC): A material is considered as hazardous waste if laboratory test result indicate Soluble Threshold Limit Concentration of measured lead are greater than or equal to 5 milligrams per liter (mg/l).
74. Shower Room: A room between the clean room and the equipment room in the work decontamination enclosure system. This room contains hot and cold or warm running water and soap suitably arranged for complete showering during decontamination. The shower room comprises an airlock between contaminated and clean areas.
75. Surfactant: A chemical wetting agent added to water to improve penetration, this reducing the quantity of water required for a given operation or area.

76. Transmission Electron Microscopy (TEM): Asbestos structure analysis for a specified volume of air. TEM is a technique that focuses an electron beam onto a thin sample. As the beams transmits through certain areas of the sample, an image resulting from varying densities of the sample is projected onto a fluorescent screen. TEM is the state-of-the-art analytical method for identifying asbestos fibers collected in air samples in non-industrial settings. TEM microscopes equipped with selected area electron diffraction (SAED) capabilities also can provide information on the crystal structure of an individual particle.
77. Toxicity Characteristic Leaching Procedure (TCLP): Test developed by U.S. Environmental Protection Agency (USEPA) to simulate landfill conditions and the potential for a waste to leach hazardous materials (40 CFR 261 - Appendix 2).
78. Total Threshold Limit Concentration (TTLC): A material is considered as hazardous waste if laboratory test result indicate Total Threshold Limit Concentration of measured lead are greater than or equal to 350 milligrams per kilogram (mg/kg).
79. TSI: Thermal Systems Insulation
80. Visible Emissions: Any emission containing particulate material that is visually detectable without the aid of instruments. This does not include condensed uncombined water vapor.
81. Visual Inspection: A visual inspection by District's Environmental Consultant, of the work area under adequate lighting to ensure that the work area is free of visible PCB material, debris, and dust.
82. Washroom: A room between the work area and the holding area in the equipment decontamination enclosure system equipped with water for decontamination of equipment and sealed waste containers. The washroom or shower room comprises one airlock.
83. Water Filtration: Refers to water filtration to as small a particulate size as technically feasible, but not more than 5 microns.
84. Wet Cleaning: The process of eliminating asbestos contamination from building surfaces and objects by using cloths, mops, HEPA vacuuming, or other cleaning utensils dampened with amended water and afterward thoroughly decontaminated or disposed of as asbestos contaminated waste.
85. Work Area: The area where asbestos removal is performed and that is defined or isolated to prevent the spread of asbestos fibers, dust or debris, and entry by unauthorized personnel. Work area is a regulated area as defined by Title 8 CCR 1529.
86. Zinc Protoporphyrin (ZPP) Test: Biological test for lead exposure that measures the amount of zinc protoporphyrin in blood.

1.4 SCOPE OF WORK

- A. Provide the removal of ACMs as specified in this section. Reference all other sections of the Specifications and other documents included in the contract documents for information and requirements that affect the work of this Section.

- B. Table I below provides estimated quantities of ACMs requiring removal. A 10% variance of quantity of actual ACM shown in the Table and estimated ACM is not considered a changed condition. The Contractor is responsible for field verifying quantities of ACMs and difficulty in abating the same. Please see attached laboratory data and diagrams for material locations.

Table I: Asbestos Containing Materials

Material Description	General Material Locations	Waste Category	Asbestos Type	Estimated Quantity
Interior Wall System - Drywall with Joint Compound (Building D)	Material is Limited to Storage Closets Adjacent to Building B Restrooms	Not Applicable	Drywall: None Detected Joint Compound: 2% Chrysotile Asbestos	2,500 sf
Interior Wall System - Drywall with Joint Compound (Building D)	Material is Present throughout Wall Systems in D-Designated Buildings	Not Applicable	Drywall: None Detected Joint Compound: 2% Chrysotile Asbestos	Class III Only

- C. Table II below provides a listing of lead samples that have been collected throughout the affected campus. Due to the levels of lead confirmed within sampled paints, as well as the age of the affected structures, all painted surfaces should be assumed to contain lead content.

Table II: Lead Containing Materials

Material Description	General Sample Locations	Lead Concentration
Pb-01: White Glazing Compound on 1" Ceramic Floor Tile System	Building F Interior at Boy's Restroom Area F116	Not Detected <39 Parts Per Million
Pb-02: Beige Paint on Plaster Wall System	Building F Interior at Boy's Restroom Area F116	78 Parts Per Million
Pb-03: Blue Glazing Compounds on 4" Ceramic Wall Tile System	Building B Interior at Boy's Restroom Area B110	130 Parts Per Million
Pb-04: Pink Glazing Compound on 4" Ceramic Wall tile System	Building B Interior at Girl's Restroom Area B108	190 Parts Per Million
Pb-05: Grey Glazing Compound on Mosaic Ceramic Wall tile System	Building B Interior at Girl's Restroom Area B108	Not Detected <39 Parts Per Million

Table II: Lead Containing Materials (Continued)

Material Description	General Sample Locations	Lead Concentration
Pb-06: White Paint on Plaster Wall System	Building E Interior at Southern Hall Area E101	78 Parts Per Million
Pb-07: Grey Putty on Window Glazing System	Building E Exterior at Northern Window Bank	4,200 Parts Per Million
Pb-08: White Paint on Wood Wall system	Building C Interior at Southern Corridor Area	1,300 Parts Per Million

- D. By submitting a bid, the contractor certifies that they have appropriate training and expertise to conduct all Class II/III asbestos work activities that will be required as a part of this job, or that they are securing an appropriate abatement contractor to perform contractor assist work for the duration of this project.
- E. All waste generated during this project is assumed to be hazardous due to lead concentrations. The contractor is responsible for the profiling and final disposal of all waste streams.
- F. In the absence of pre-existing data, the selected contractor is responsible for performing initial exposure assessments for lead related construction activities and negative exposure assessments for all asbestos related activities. This shall be performed using air monitoring and analysis techniques as specified by the National Institute of Occupational Safety and Health (NIOSH). These shall be performed on a per-campus basis at a minimum.

1.5 REFERENCES

The publications listed below form a part of this specification by reference. The publications are referred to in the text by basic designation only. If there is a conflict between any of the listed regulations or standards, then the most stringent or restrictive shall apply.

- A. American National Standards Institute (ANSI) and American Society for Testing and Materials (ASTM)
 - 1. ANSI Z9.2, 1979 (R 1991), Fundamentals Governing the Design and Operation of Local Exhaust Systems
 - 2. ANSI Z87.1, 2003, Occupational and Educational Eye and Face Protection
 - 3. ANSI Z88.2 1992, Respiratory Protection
 - 4. ANSI Z89.1, 1986, Requirements for Protective Headgear for Industrial Workers
 - 5. ANSI Z41, 1999, Personal Protection – Protective Footwear
 - 6. ANSI Z88.6, 1984, Respiratory Protection – Respiratory Use Physical Qualifications for Personnel

7. ASTM C 732, 1982 (R 1987) Aging Effects of Artificial Weathering on Latex Sealants
 8. ASTM D 522, 1993 (Rev. A) Mandrel Bend Test of Attached Organic Coatings
 9. ASTM D 1331, Solutions of Surface-Active Agents
 10. ASTM D 2794, 1993 Resistance of Coatings to the Effects of Rapid Deformation (Impact)
 11. ASTM E 84, 1991 (Rev. A) Surface Burning Characteristics of Building Materials
 12. ASTM E 96, 1994 Water Vapor Transmission of Materials
 13. ASTM E 119, 1988 Fire Tests of Building Construction and Materials
 14. ASTM E 736, 1992 Cohesion/Adhesion of Sprayed Fire-Resistive Materials Applied to Structural Members
 15. ASTM E849, 1986 Safety and Health Requirement Relating to Occupational Exposure to Asbestos
 16. ASTM E 1368, 1990 Visual Inspection of Asbestos Abatement Projects
 17. ASTM E1494, 1992 Specifications for Encapsulants for Friable Asbestos-Containing Building Materials
- B. California Assembly Bills (CAB)
1. CAB 040, Yearly Registration of Contractors
- C. California Code of Regulations (CCR)
1. Title 8 CCR 5208, General Industry – Asbestos
 2. CCR CARS, Carcinogen and Asbestos Registration Sections 340-344.53, 341.6 Amended, and 341.9 Amended Through 341.14
 3. CCR ESO, Electrical Safety Orders, Chapter 4, Subchapter 5
 4. CCR 1523, Illumination
 5. CCR 1529, Asbestos in the Construction Industry
 6. CCR 1531, Construction Respiratory Protective Equipment
 7. CCR 1532.1, Lead in Construction
 8. CCR 3203, Injury and Illness Prevention Program
 9. CCR 3204, Access to Employee Exposure and Medical Records
 10. CCR 3220, Emergency Action Plan
 11. CCR 3221, Fire Prevention Plan
 12. CCR 5144, Respiratory Protection Equipment Standard
 13. CCR 5194, Hazard Communication Standard
 14. CCR 6003, Accident Prevention Signs
 15. Title 22, Division 4, Minimum Standards for Management of Hazardous and Extremely Hazardous Waste
- D. California Health Services (CHS) Titles 22 and 23, California Administrative Code Disposal Requirements

1. CHS 25123, Section 25123
 2. CHS 25124, Section 25124
 3. CHS 25143, Section 25143
 4. CHS 25163, Section 25163
 5. CHS 66508, Section 66508
 6. CHS 66510, Section 66510
 7. CHS DIV 4, Division 4, Commencing with Section 66000, "Disposal"
- E. California Health and Safety Code (CHSC)
1. CHSC 20, Division 20, Commencing with Section 24200
- F. California Labor Code (CLC)
1. CLC DIVISION 5, Part 1, commencing with 6300
- G. California Propositions (CP)
1. CP 65, Proposition 65
- H. California State Board of Equalization (CSBE)
1. CSBE ETU, Excise Tax Unit
- I. California State License Board (CSLB)
1. CSLB CBPC, California Business and Professional Code Sections 7058.5 and 7058.7, "Certification"
- J. Code of Federal Regulations (CFR)
1. 29 CFR 1910.134, Respiratory Protection
 2. 29 CFR 1910.141, Sanitation
 3. 29 CFR 1910.145, Accident Prevention Signs and Tags
 4. 29 CFR 1926.21, Safety Training and Education
 5. 29 CFR 1926.55, Gases, Vapors, Fumes, Dusts, and Mists
 6. 29 CFR 1926.62, Lead Exposure in Construction
 7. 29 CFR 1926.65, Hazardous Waste Operations and Emergency Response
 8. 29 CFR 1926.59, Hazard Communication
 9. 29 CFR 1910.1000, Air Contaminants
 10. 29 CFR 1926.1101, Asbestos
 11. 40 CFR 61-SUBPART A, General Provisions
 12. 40 CFR 61-SUBPART M, National Emission Standard for Asbestos
 13. 40 CFR 260, Hazardous Waste Management Systems: General
 14. 40 CFR 745, Lead; Requirements for Lead-Based Paint Activities
 15. 40 CFR 763, Asbestos Containing Material in Schools
 16. 49 CFR 178, Shipping Container Specifications

- K. National Fire Protection Association (NFPA)
 - 1. Standard 10, Fire Extinguishers
 - 2. Standard 70, National Electric Code
 - 3. Standard 701, Small Scale Fire Test for Flame Resistant Textiles
- L. State and Local Regulations
 - 1. Rule 4002, San Joaquin Valley Air Pollution Control District
- M. U.S Department of Housing and Urban Development (HUD)
 - 1. Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing
- N. Underwriters Laboratories, Inc. (UL)
 - 1. UL 586-96, 1996 Test Performance of High-Efficiency Particulate Air Filter Units

1.6 SUBMITTALS PRIOR TO START OF WORK

- A. The reviews by the District or District's Environmental Consultant are intended to be only for general conformance with the requirements. The District or District's Environmental Consultant assumes no responsibility for permits, licenses, notices, materials and methods, equipment or temporary construction required to execute the work described in this Section of the Specification or in other Sections of the Specification or in other documents included in the contract documents.
- B. Before commencing work involving the abatement of asbestos, submit the following for review by the District or District's Environmental Consultant.
 - 1. A detailed work plan outlining the techniques and equipment to be used in order to prevent contamination of District Property.
 - 2. Provide an asbestos and lead site safety plan prior to project initiation. The site safety plan shall deal with, at a minimum: site safety and health hazards; fiber release incidents; control of water leakage or discharge within and/or from the work area; medical emergency; asbestos handling procedures; fall protection; electrical safety; Contractor's internal administrative and inspection procedures; earthquakes and/or fire emergency procedures; protocol for responding to complaints or questions from interested parties; 24-hour emergency telephone numbers for company officers with authority to respond to emergencies.
 - 3. DOP testing certification for all high efficiency particulate air filtration devices to be used during the performance of site activities.
 - 4. Competent Person (as defined by Title 8 CCR 1529): Demonstrate education and specialized training with successful completion of a Cal-OSHA accredited asbestos training course along with CDPH accredited lead training.
 - 5. Submit current certificates (less than 11 months) signed by each employee and trainer that the employee has received proper training in the handling of materials that contain asbestos and/or lead Include documentation showing that the worker understands the following; health implications and risks involved (including the illnesses possible from exposure to airborne asbestos

fibers), the use and limits of the respiratory equipment to be used, and the results of monitoring of airborne quantities of asbestos concerning health and respiratory equipment.

6. Proof of Respirator Fit Testing: Provide proof of respirator fit testing. Fit testing records must be less than eleven (11) months old and document testing on the type of respiratory protective equipment used for this project. Fit testing records must be signed by the Competent Person.
7. Foreman Training: Submit evidence that the foreman to be used on the job fulfills the qualifications detailed in this specification and has experience in similar jobs.
8. Medical Examinations: Submit evidence signed by a physician that each employee used on the job has received an appropriate medical examination as detailed in Title 8 CCR 1529 and 1532.1. The submitted document must be less than eleven (11) months old.
9. Rental Equipment: When rental equipment is to be used in the abatement areas or to transport hazardous waste, the Contractor shall provide written notification regarding intended use of the rental equipment to the rental agency before use, with copies to the District's Environmental Consultant.
10. Certificates of Compliance: Submit manufacturer's certification that vacuums, ventilation equipment, and other equipment required to contain airborne asbestos fibers conform to ANSI Z9.2. Submit results of onsite DOP testing of all HEPA-filtered ventilation equipment.
11. Licenses: Submit copies of state and local licenses, evidence of Cal-OSHA registration and permits necessary to carry out the work of this contract.
12. Notification of Other Contractors: If other contractors are working at the job site, before beginning any work the Contractor must inform all other contractors in writing regarding the location, nature, and requirements of the work areas.
13. Material Safety Data Sheets/Specification Sheets: The Contractor shall submit Material Safety Data and Specification Sheets for all chemicals, encapsulants, etc. to be used for this project.

1.7 SUBMITTALS AT THE COMPLETION OF THE PROJECT

- A. Upon completion of on-site work, Contractor shall provide a detailed project summary that will include each of the items listed below. The project Summary shall be submitted and approved by the District prior to acceptance of final pay request and shall include the following:
 1. Chain of custody documentation and laboratory reports for all analyses performed.
 2. Emergency evacuations and any other safety or health incidents.
 3. Submit uniform hazardous and non-hazardous waste manifests prepared, signed and dated by an agent of the landfill. The manifest must certify the amount of hazardous materials delivered to the landfill. The manifest must be provided to the District or District's Environmental Consultant within ten working days after delivery.

4. Hazardous waste must be tested (TTLC/STLC/TCLP) and categorized for purposes of disposal. The Contractor shall submit written evidence of approved testing (including copy of the actual chain-of-custody forms) and disposal of hazardous wastes within five (5) days following the completion of each phase of the project.
5. Personal air sample results.
6. Project Summary:
 - a. Abatement contractor's name and address, certification number (CSLB), registration number (DOSH) and Tax ID number.
 - b. Hazardous waste hauler certifications (DOT).
 - c. Name, address and registration number of hazardous waste hauler.
 - d. Laboratory performing analyses (NVLAP).
 - e. Contract number and name of project.
 - f. Specific inventory (including locations and approximate quantities) of the hazardous materials which were removed or handled.
 - g. Number of employees working on the project.
 - h. Dates of commencement and completion of on-site work.
 - i. Work method employed (i.e., glove bag, mini-containment, full containment with negative air and decontamination enclosure system, etc.)
 - j. Name, location, telephone number and EPA registration of waste disposal site(s) used.
 - k. DOP testing results.

1.8 QUALITY ASSURANCE

A. Qualifications:

1. Asbestos Abatement Work: Only qualified persons shall engage in asbestos abatement activities. Work involving asbestos-containing materials exceeding 100 square feet (SF) or 100 linear feet (LF) shall be completed by a Contractor holding a valid asbestos handling license issued by the California State Contractors Licensing Board (SCLB) and a valid current Certificate of Registration for Asbestos-Related Work as issued by the California Department of Industrial Relations - Division of Occupational Safety and Health (Cal/OSHA). Work shall be completed under the on-site supervision of a Competent Person as defined by OSHA Regulation 29 CFR Part 1926.1101 (8 CCR 1529 in California). All abatement workers shall have AHERA training with annual 8-hour refresher training, current medical exams for the use of respiratory protection, and current fit test of appropriate respirators.

B. Regulatory Requirements: The Contractor shall be alerted to and familiar with the following laws and regulations regarding the hazards, control measures, management, characterizing, transport and disposal of hazardous wastes:

1. Asbestos and Lead Abatement Work: All labor, materials, facilities, equipment,

services, employees and training, and testing necessary to perform the work required for asbestos abatement and disposal of waste shall be in accordance with these Specifications and the most current regulations, including but not limited to:

- a. Environmental Protection Agency NESHAP and AHERA regulations (40 CFR Part 763, as applicable).
- b. Occupational Safety and Health Administration (inclusive of OSHA 29 CFR 1926.1101)
- c. California Department of Occupational Safety and Health (inclusive of Cal/OSHA 8 CCR 1529)
- d. California Environmental Protection Agency (Cal/EPA).
- e. CDPH Lead Renovation Regulations
- f. Local Air Quality Management District or Air Pollution Control District Rules
- g. Other applicable federal, state, and local governmental regulations pertaining to asbestos-containing materials (ACM) and asbestos waste.

PART 2 - PRODUCTS

2.1 SIGNS AND LABELS

- A. Provide labeling in accordance with State and Federal EPA requirements. Provide the required signs, labels, warnings, placards or posted instructions for containers used to transport hazardous material to the landfill.
- B. Location of Caution Signs and Labels: Provide bilingual caution signs at all approaches to work areas in languages used by the Contractor's employees. Locate signs at such a distance that personnel may read the sign and take the necessary protective steps required before entering the area. Provide labels and affix to all asbestos-containing materials, scrap, waste, debris, and other products contaminated with hazardous materials.
- C. Warning Sign Format: Vertical format conforming to Title 8 CCR 1529:

DANGER
ASBESTOS
CANCER AND LUNG DISEASE HAZARD
AUTHORIZED PERSONNEL ONLY
RESPIRATORS AND PROTECTIVE CLOTHING ARE REQUIRED IN THIS AREA

- D. Warning Label Format: Provide labels that comply with Title 8 CCR 1529 of sufficient size to be clearly legible, displaying the following legend:

DANGER
CONTAINS ASBESTOS FIBERS
MAY CAUSE CANCER
DO NOT BREATHE DUST

AVOID CREATING DUST

- E. Warning Sign Format: Vertical format conforming to Title 8 CCR 1532.1:

WARNING
LEAD WORK AREA
POISON
NO SMOKING OR EATING

- F. Wherever the treatment process is reasonably expected to impact any lead-containing substances:

1. Post a sign 14" by 14" that includes the phrase, "Caution Lead Hazard. Keep Out" in bold lettering at least 2" inches high.
1. Postings shall be in English and Spanish, and in any language used by any of the Contractor's employees as the primary language of communication.

2.2 PLASTIC SHEETING

- A. Use fire-retardant (FR) polyethylene (poly) film.
1. Thickness - 6-mil, minimum, NO EXCEPTIONS.
 2. Flame Resistance/Flame Spread Rate <25.
 3. Conforms to NFPA #701 and Tested in accordance with ASTM E-84.

2.3 TAPE, ADHESIVE, SEALANTS

- A. Tape, 2" or wider, shall be capable of sealing joints of adjacent sheet of polyethylene and shall attach polyethylene sheet to finished or unfinished surfaces or similar materials. Tape shall be capable of adhering under dry and wet conditions, including use of amended water. Taping to critical or sensitive surfaces shall be completed using preservation sealing tape.
- B. Spray adhesive for sealing polyethylene to polyethylene shall contain no methylene chloride or methyl chloroform (1,1,1-trichloroethane) compounds.

2.4 VACUUM EQUIPMENT

- A. All vacuum equipment used in the work area shall use HEPA filtration systems and be of the wet-dry type. The Contractor shall provide on-site independent DOP testing to document the effectiveness of the vacuum units. The test results shall be signed by the individual performing the testing. Repeat DOP testing every thirty (30) days after initial testing. Provide documentation to the District or District's Environmental Consultant with 24 hours of DOP testing.

2.5 TRANSPORTATION EQUIPMENT

- A. Transportation equipment, as required, shall be lockable and suitable for loading, temporary storage, transit and unloading of contaminated waste without exposure to

persons or property. Any vehicle used to transport asbestos waste shall be properly registered with all applicable controlling agencies.

2.6 OTHER TOOLS AND EQUIPMENT

- A. The Contractor shall provide other suitable tools for the stripping, removal and disposal activities.
- B. Prohibited Equipment: The following equipment is prohibited from use on this project unless accepted in writing by the District or District's Environmental Consultant:
 - 1. High or low pressure water blasting equipment for hosing of work areas.
 - 2. Bead blasting or other uncontained abrasive blasting methods.
 - 3. Vacuum-powered removal or collection equipment located outside the asbestos work area, such as a "Vacu-Loader".
 - 4. Gasoline, propane, diesel or other fuel powered equipment inside the building, unless previously approved in writing by the District or District's Environmental Consultant.
 - 5. Equipment that creates excessive noise or vibration that would affect the safety of the building or generate complaints from neighboring building occupants. No equipment shall exceed an A-weighted sound level of 85 dB as measured at 3 ft. from the radiating source without written permission of the District or District's Environmental Consultant.
 - 6. Metal wire-brushes.
 - 7. Flammable solvents with a flash point below 140 degrees F or materials containing ethylene glycol ether, methylene chloride, ethyl chloroform (1,1,1-trichloroethane), or other hazardous substances.
 - 8. Non-fire retardant polyethylene sheeting.
 - 9. Polyurethane spray foam for application in fire-rated assemblies, including but not limited to penetrations into stairwells, mechanical rooms, electrical closets, rated floor-to-floor assemblies, etc.

PART 3 - EXECUTION

3.1 WORK AREA SET-UP PROCEDURES - ASBESTOS AND LEAD (LIMITED CLASS II WALL SYSTEM ABATEMENT)

- A. All class II work activities shall be performed within a full negative pressure enclosure as defined by Cal-OSHA.
- B. The District or District's Environmental Consultant reserves the right to inspect and approve all containment setups before any abatement is undertaken.
- C. If a containment area is breached (failure of polyethylene seals, visible dust emission, fiber counts above background level, etc.), the Contractor shall take immediate action to control the breach and clean the area to the satisfaction of the District or District's Environmental Consultant.

- D. If sample results indicate that conditions have exceeded the baseline or clearance criteria, as determined by the District or District's Environmental Consultant, all work shall cease. Work shall not recommence until the condition(s) causing the increase have been corrected.
- E. Verify that all electrical power, gas, sewage, water, phone lines, fire life safety lines and sprinkler systems to the work area have been shut down and disconnected so that there is no possibility of reactivation and electrical shock.
- F. Provide all connections for temporary utilities in the work area needed throughout abatement. Temporary electrical power shall be according to OSHA and the National Electrical Code for Wet Environments.
- G. Contractor shall conform to the District's lockout requirements, and secure the work area at all times. Area entrances and exits shall be secured by the Contractor throughout the abatement phase. Unauthorized visitors are strictly prohibited. Only the Contractor, District or District's designative representatives are permitted at the job site. Contractor shall ensure that all doors, gates, windows, and potential entrances to the work areas and the designated waste location areas are secured and locked at the end of each workday.
- H. Contractor shall store all materials, equipment, and supplies for the project inside the building or in areas designated by the District and in accordance with District's requirements.
- I. As required, establish designated limits for the abatement work area with continuous barriers. Use barrier tape (3-inch) with a pre-printed asbestos warning throughout exterior asbestos abatement activities. Provide signs around the perimeter of all the interior works areas per the EPA and Cal-OSHA.
- J. Contractor shall provide temporary sanitary services of adequate capacity to handle the maximum estimated crew size plus an additional twenty percent. Contractor shall maintain the temporary facilities throughout the duration of the project.
- K. The Contractor shall be responsible for identifying all HVAC components (if applicable) that lead into or out of the work areas. All components shall be disconnected and sealed airtight for the duration of the abatement work. All openings shall be sealed with two (2) layers of 6 mil polyethylene secured with duct tape, as applicable.
- L. Pre-clean the work area and fixed objects in the work area using HEPA filtered vacuums and/or wet cleaning methods. Protect fixed objects with protective barriers (as appropriate) and cover with 6 mil poly sealed with tape.
- M. Approved fire extinguishers (Class ABC, multi-purpose, dry chemical type, rated: 4A; 60BC) shall be readily available to workers (maximum travel distance of 50 feet) inside and adjacent to work area(s). Personnel and emergency exits shall be clearly indicated on the inside of the containment area. The emergency exit plan shall be approved by the District's Environmental Consultant prior to the set up of any work areas.

N.

3.2 WORK AREA SET-UP PROCEDURES - ASBESTOS AND LEAD (LIMITED CLASS III CONTRACTOR ASSIST ACTIVITIES)

- A. Containment is not required for Class III Operations. However, all work shall be conducted within an asbestos regulated area as required by Cal-OSHA. Contractor shall seal operable air intakes and critical barriers within 5 feet of the work area with 6-mil polyethylene sealed with tape.
- B. Any disturbance of ACMs must be performed within a regulated area. If dust or debris is generated from asbestos related activity, work must be performed in a mini-enclosure with negative pressure or critical barrier containment.
- C. All surfaces within affected regulated areas shall be protected by 6-mil polyethylene drop sheeting.
- D. Approved fire extinguishers (Class ABC, multi-purpose, dry chemical type, rated: 4A; 60BC) shall be readily available to workers (maximum travel distance of 50 feet) inside and adjacent to work area(s). Personnel and emergency exits shall be clearly indicated on the inside of the containment area. The emergency exit plan shall be approved by the District's Environmental Consultant prior to the set up of any work areas.

3.3 PERSONNEL PROTECTION

- A. Informed Workers:
 - 1. All workers shall be informed of the hazards of ACMs, lead and any other hazardous materials exposure. Workers shall also be instructed in the use and fitting of respirators, protective clothing, decontamination procedures, and all other aspects associated with the abatement work.
- B. Personal Hygiene Practices:
 - 2. The Contractor shall enforce and follow good personal hygiene practices during the abatement of hazardous materials. These practices will include but not be limited to the following: no eating, drinking, smoking or applying cosmetics in the work area. The Contractor shall provide a clean space, separated from the work area, for these activities.
 - 3. If data gathered by the exposure assessment phases shows exposure to airborne asbestos or other hazardous materials exceeding Cal-OSHA criteria, that area will become regulated and workers must wear protective clothing and approved respirators and must have a shower facility provided to them.
- C. Respirators:
 - 1. Establish a respiratory protection program as outlined by ANSI and required by Cal-OSHA. Select respirators from those approved by the National Institute for Occupational Safety and Health (NIOSH). Respirators selected must be approved by the Competent Person. Submit program for review a minimum of five (5) working days prior to the commencement of abatement activities.

2. Provide workers with approved and personally-issued respirators with replaceable filters. Provide sufficient quantity of filters approved by NIOSH for use in asbestos environments so that workers can change filters as required by the manufacturer.
 3. At a minimum, provide each employee with the following respiratory protection for each work phase:
 - a. Pre-cleaning, containment set-up, and containment removal work: NIOSH-approved, half-face respirators with HEPA cartridges.
 - b. Asbestos abatement of drywall with asbestos containing joint compound, as well as disturbance of surfaces with known or unknown lead concentrations: half-face respirators with HEPA cartridges and organic vapor cartridges (as necessary).
- D. Protective Clothing: The contractor shall determine appropriate personal protective clothing to comply with all applicable regulations based on their understanding of potential exposures.
- E. Eye Protection: Provide safety glasses or goggles to personnel removing or handling asbestos-containing materials and waste.
- F. Emergency Precautions and Procedures:
1. Establish emergency and fire exits from the work area. Display necessary signage at exits and paths to exits with representative visual aids. A diagram of all emergency and fire exits shall be posted in a conspicuous area proximate to the entrance to each work area.
 2. The Contractor's supervisor/competent person shall be trained and certified in first aid and CPR, and 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 implement fiber reduction techniques until the injured person has been removed from the work area.
 3. In the event of a loss of negative pressure to the work area, work shall stop immediately and entrances to the work area sealed tight. The Contractor shall also institute fiber reduction controls until negative pressure is re-established to acceptable levels.
- 3.4 ASBESTOS AND LEAD REMOVAL (GROSS REMOVAL TECHNIQUE - WALL SYSTEMS ONLY)
- A. The Contractor shall abate all ACMs and lead containing materials identified in this specification that will be impacted during the performance of construction activities.
 - B. The Contractor shall continuously apply wetting agent throughout the removal process. The wetting agent shall be applied with a low-pressure fine spray to minimize fiber releases. The materials shall be thoroughly saturated so that there is no detectable fiber release. All ACM and lead containing debris shall be immediately packaged in leak-tight containers following removal.

- C. Minimize removal activities of ACMs and lead containing materials (LCMs) that generate airborne particulate. To the extent feasible, score or cut-out ACMs and/or LCMs in sections, wetting along the scoring line continually, and misting the air with an airless sprayer to knock down suspended particulate. After completion of removal work, surfaces from which asbestos has been removed shall be wet cleaned to remove all visible material and residue.
- D. Wet clean the exterior surfaces of waste containers in the equipment decontamination enclosure system prior to removal from the work area. Ensure that workers do not enter from uncontaminated areas into contaminated areas in the equipment decontamination enclosure system. The Contractor shall transport asbestos-containing waste bags to the waste debris box at designated hours approved by the District or District's Environmental Consultant.
- E. Non-friable waste shall be packaged in clear, leaktight containers and properly labeled while stored on-site.
- F. All drywall debris with ACM joint compound shall be stored in clear, leaktight containers and properly labeled while stored on-site.
- G. Asbestos/lead containing debris and contaminated water shall be cleaned from the work area at the end of each work shift. The Contractor shall clean the work area using wet methods and HEPA vacuum equipment.

3.5 DECONTAMINATION - ASBESTOS AND LEAD

- A. Following the applicable asbestos and lead related work, all reusable, contaminated equipment, such as masks, hard hats, boots, etc. shall be thoroughly decontaminated through wet cleaning methods before removal from the work area.
- B. No accumulation of debris or standing water will be permitted following the initial decontamination. All visible asbestos debris on soil will be removed to baseline concentrations.

3.6 WASTE LOAD OUT PROCEDURES

- A. Ensure that polyethylene bags are sealed air-tight. All bags shall be wet cleaned prior to removing them from the equipment decontamination unit.
- B. Ensure all disposal containers are properly labeled in accordance with 8 CCR 1529, 5194 (HAZCOM), 49 CFR 171-179 (USDOT), 40 CFR 61 Subpart M (NESHAP), and any local regulations and state regulations as required by this specification.

3.7 ENGINEERING CONTROLS

- A. For the purposes of this project, all work shall be performed utilizing equipment that has been designed to work with shrouds equipped with HEPA Filtration or using local exhaust ventilation. These shall be sufficient to control all visible emissions of dusts and debris.

- B. If the contractor is unable to prove through visual inspection and air monitoring data that the controls selected will be sufficient to prevent the generation of gross debris or airborne asbestos fibers, additional engineering controls, such as the usage of negatively pressurized miniature enclosures shall be required at no additional cost to the contract.

3.8 HAZARDOUS MATERIALS DISPOSAL

- A. It is the responsibility of the Contractor to determine current waste handling, labeling, transportation and disposal regulations for the work site and for each waste disposal landfill. The Contractor must comply fully with these Specifications, local, state, and federal regulations and provide documentation of the same.
- B. Ensure all disposal containers are properly labeled per 8 CCR 1529, 5194 (HAZCOM), 49 CFR 171-179 (USDOT), 40 CFR 61 Subpart M (NESHAP), and any local regulations and state regulations as required by this specification.
- C. Filter all wastewater to the technically feasible limit, but not more than five (5) microns before disposal. Comply with all current local, state and federal codes relating to waste water release.
- D. Asbestos-containing waste that is properly labeled and sealed may be temporarily stored in areas approved by the District. Areas must be made secure before storing the waste. Waste is not to remain in temporary storage area for longer than one (1) week before final load-out of materials.
- E. All friable asbestos waste shall be double-wrapped prior to transport from the site.
- F. All lead related waste streams and waste categories shall be considered hazardous until proven otherwise through testing by the Contractor. If the Contractor allows different waste stream to become co-mingled, the waste will be classified as hazardous if any single component waste stream is hazardous.
- G. Each lead related waste produced shall be placed in properly segregated, labeled and sealed, impervious containers.
- H. Each category of waste, except components with intact paint, will be tested and characterized by the Design Build Entity's Observation Service using one or more of the following testing protocols:
 - 1. Total Threshold Limit Concentration (TTLC): 1,000 ppm lead.
 - 2. Soluble Threshold Limit Concentration (STLC): 5 µg/L lead.
 - 3. Toxicity Characteristic Leaching Procedure (TCLP): 5 µg/L lead.
- I. Based on the testing protocols, any waste greater than TTLC, STLC or TCLP concentrations listed above shall be considered a hazardous waste.
- J. All vehicles used to transport hazardous waste must be registered with the Department of Toxic Substances Control and Department of Transportation and maintain proper registration and with vehicle at all times.

- K. All vehicles and containers used to transport waste are subject to inspection and approval of District prior to departure from site.
- L. Contractor shall not throw bags into the truck in a way that may cause the bags to burst open.
- M. Contractor shall provide at minimum one (1) day advance notification to the District when signatures are required on manifest(s). The Contractor shall ensure that the Hazardous Waste Manifest is correctly filled out. The Contractor shall give the appropriate copies to the District and shall also instruct the District in writing that they must send the appropriate copy to the Department of Toxic Substances Control.
- N. If a debris box is used, the Contractor shall make all necessary arrangement with the District including obtaining all appropriate permits.
- O. Contractor is responsible for all coordination with the waste disposal site and with the waste hauling company.
- P. Debris box shall be constructed with minimum 20-gauge steel with no windows or openings other than the door. Debris box for hazardous waste shall be fully lined with a double layer of polyethylene sheeting and must be locked at all times when unattended. Once the debris box is filled and the manifest is signed, Contractor must transport the debris box off the job site.
- Q. Disposal shall be in a District approved landfill that meets EPA requirements.

Houston Elementary
School
Modernization

Limited Hazardous
Materials Survey

4600 East Acampo Road
Acampo, California

Date
March 2020

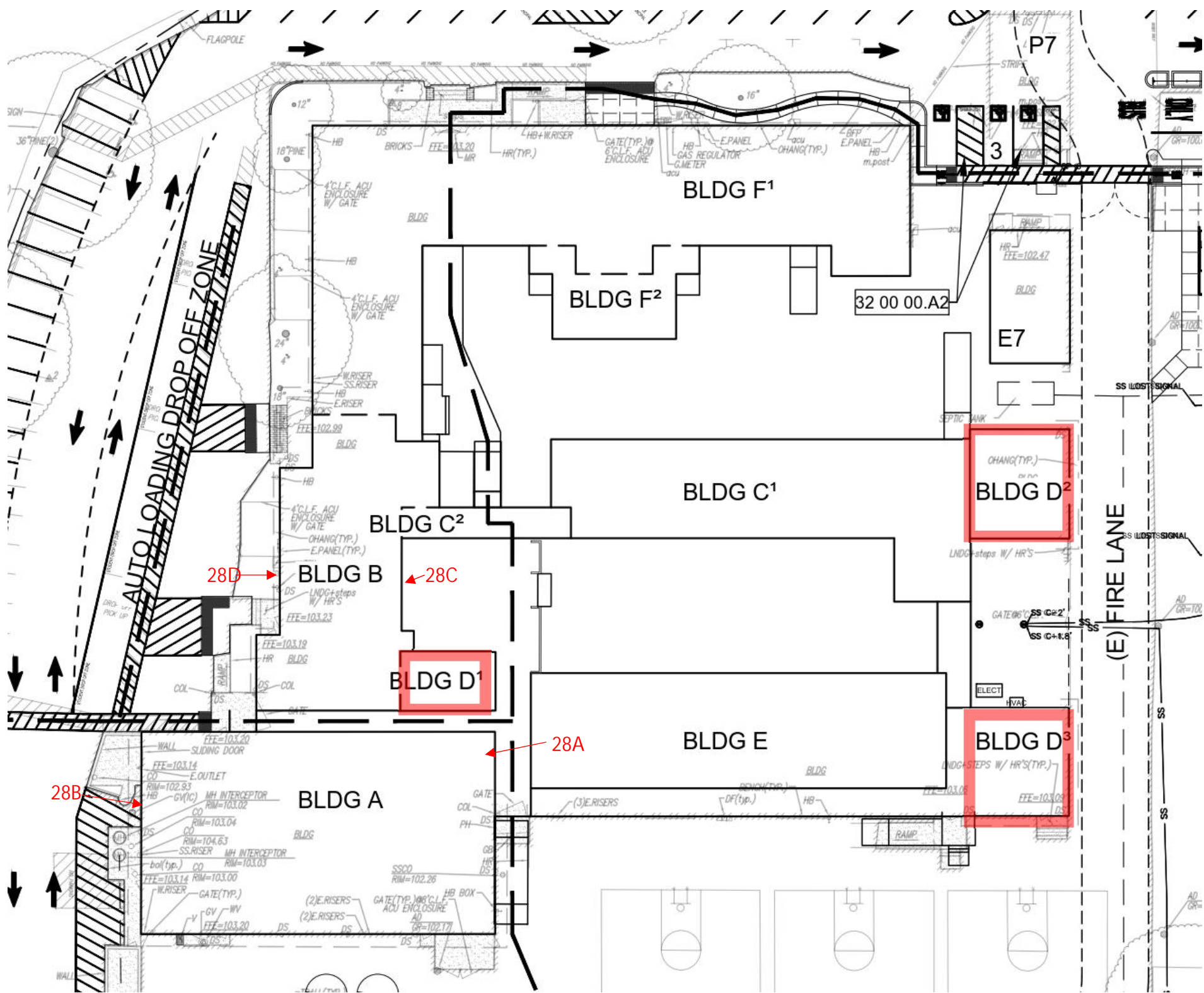
Drafted By
WMF

Project Number
R1207078

Checked By
SPS

Sheet Name
Sample Location
Diagrams

Sheet Number
Figure 1



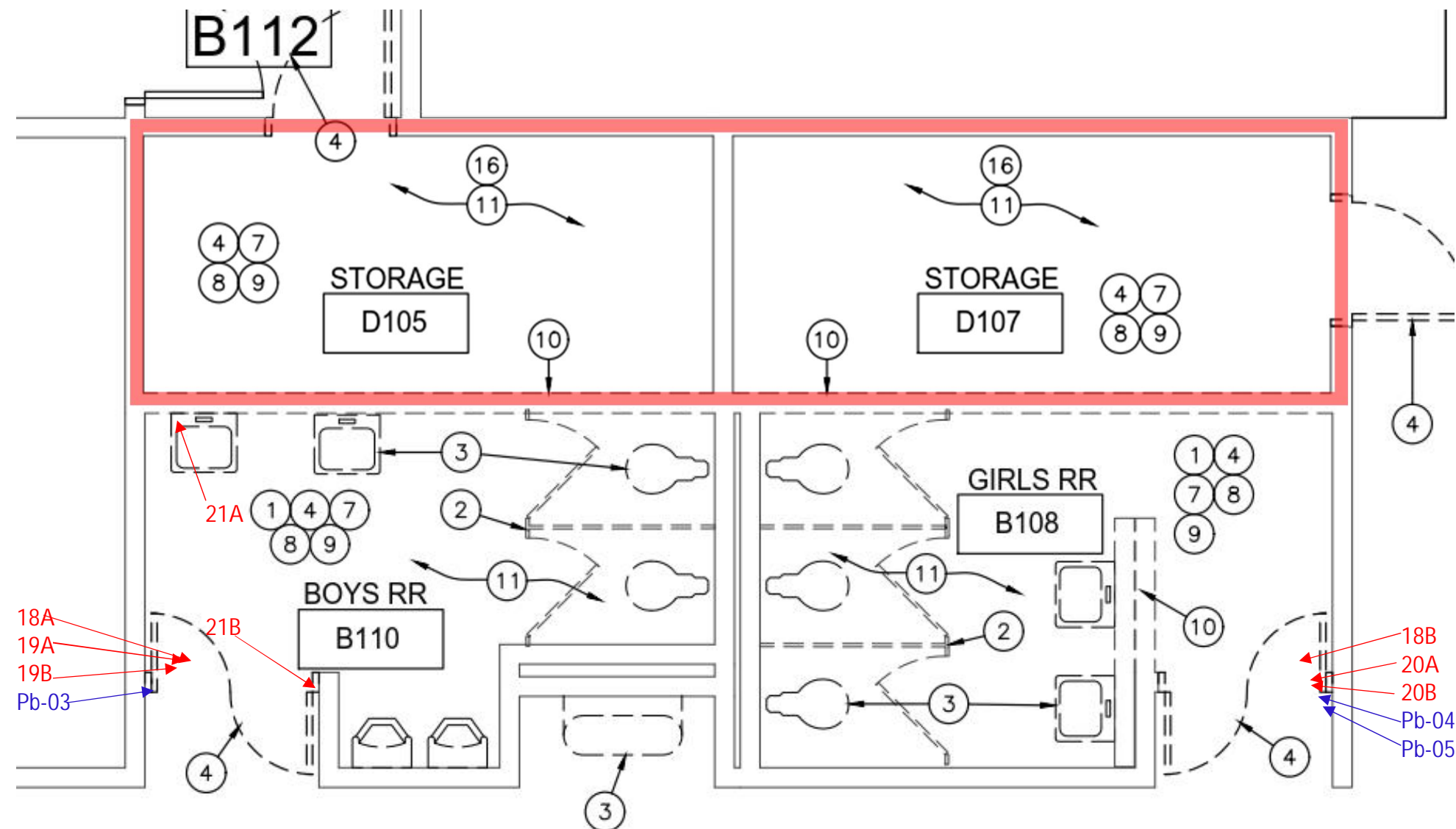
 = ACM Drywall Systems

↑
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Not to Scale

Houston Elementary School Modernization

Limited Hazardous Materials Survey

4600 East Acampo Road
Acampo, California



DEMOLITION FLOOR PLAN BOYS B110 & GIRLS B108

■ = ACM Drywall Systems

↑
N
Not to Scale

<u>Date</u> March 2020	<u>Drafted By</u> WMF
<u>Project Number</u> R1207078	<u>Checked By</u> SPS
<u>Sheet Name</u> Sample Location Diagrams	
<u>Sheet Number</u> Figure 1	



Report for:

William Frieszell
Terracon Consultants, Inc. - Emeryville
1466 66th Street
Emeryville, CA 94608

Regarding: Project: R1207078; Houston School, 4600 East Acampo Road, Limited Hazardous Materials Survey, Acampo
EML ID: 2369386

Approved by:

Dates of Analysis:
Asbestos PLM: 03-05-2020 and 03-06-2020



Approved Signatory
Renee Luna-Trepczynski

Service SOPs: Asbestos PLM (EPA 40CFR App E to Sub E of Part 763 & EPA METHOD 600/R-93-116, SOP EM-AS-S-1267)
NVLAP Lab Code 500031-0

All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. The results relate only to the samples as received. The results include an inherent uncertainty of measurement associated with estimating percentages by polarized light microscopy. Measurement uncertainty data for sample results with >1% asbestos concentration can be provided when requested.

Eurofins EMLab P&K ("the Company") shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.

Client: Terracon Consultants, Inc. - Emeryville

C/O: William Frieszell

Re: R1207078; Houston School, 4600 East Acampo Road, Limited Hazardous Materials Survey, Acampo

Date of Sampling: 03-03-2020

Date of Receipt: 03-05-2020

Date of Report: 03-06-2020

ASBESTOS PLM REPORT**Total Samples Submitted:** 114**Total Samples Analyzed:** 114**Total Samples with Layer Asbestos Content > 1%:** 9**Location: 1A, Sheet Flooring System-Beige Sandy Pattern; Building F, Interior-Principal's Office Restroom Area at Northwestern Corner**

Lab ID-Version‡: 11292813-1

Sample Layers	Asbestos Content
Beige Sheet Flooring with Fibrous Backing	ND
Yellow Mastic	ND
Tan Wood	ND
Composite Non-Asbestos Content:	50% Cellulose < 1% Glass Fibers
Sample Composite Homogeneity:	Moderate

Location: 1B, Sheet Flooring System-Beige Sandy Pattern; Building F, Interior-Principal's Office Restroom Area at Northeastern Corner

Lab ID-Version‡: 11292814-1

Sample Layers	Asbestos Content
Beige Sheet Flooring with Fibrous Backing	ND
Yellow Mastic	ND
Tan Wood	ND
Composite Non-Asbestos Content:	30% Cellulose < 1% Glass Fibers
Sample Composite Homogeneity:	Moderate

Location: 2A, Interior Wall System-Beige Plaster with White Coating; Building F, Interior-Principal's Office Restroom Area at Southwestern Corner

Lab ID-Version‡: 11292815-1

Sample Layers	Asbestos Content
White Skim Coat with Multilayered Paint	ND
Light Gray Base Coat Fragments	ND
Composite Non-Asbestos Content:	< 1% Cellulose
Sample Composite Homogeneity:	Moderate

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Client: Terracon Consultants, Inc. - Emeryville

C/O: William Frieszell

Re: R1207078; Houston School, 4600 East Acampo
Road, Limited Hazardous Materials Survey, Acampo

Date of Sampling: 03-03-2020

Date of Receipt: 03-05-2020

Date of Report: 03-06-2020

ASBESTOS PLM REPORT**Location: 2B, Interior Wall System-Beige Plaster with White Coating; Building F,
Interior-Southeastern Exit Corridor Area at Southeastern Corner**

Lab ID-Version‡: 11292816-1

Sample Layers	Asbestos Content
Off-White Plaster and Paint Fragments	ND
Composite Non-Asbestos Content:	< 1% Cellulose
Sample Composite Homogeneity:	Moderate

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Client: Terracon Consultants, Inc. - Emeryville

C/O: William Frieszell

Re: R1207078; Houston School, 4600 East Acampo Road, Limited Hazardous Materials Survey, Acampo

Date of Sampling: 03-03-2020

Date of Receipt: 03-05-2020

Date of Report: 03-06-2020

ASBESTOS PLM REPORT**Location: 2C, Interior Wall System-Beige Plaster with White Coating; Building F, Interior-Counselor's Office Area F108 at Northwestern Corner**

Lab ID-Version‡: 11292817-1

Sample Layers	Asbestos Content
White Skim Coat with Multilayered Paint	ND
Light Gray Base Coat	ND
Composite Non-Asbestos Content:	< 1% Cellulose
Sample Composite Homogeneity:	Moderate

Location: 2D, Interior Wall System-Beige Plaster with White Coating; Building F, Interior-Janitor's Closet Area F111 at Western Wall

Lab ID-Version‡: 11292818-1

Sample Layers	Asbestos Content
White Skim Coat with Multilayered Paint	ND
Off-White Base Coat	ND
Composite Non-Asbestos Content:	5% Vermiculite < 1% Cellulose
Sample Composite Homogeneity:	Moderate

Location: 2E, Interior Wall System-Beige Plaster with White Coating; Building F, Interior-Northern Classroom Area F103 at Southwestern Side

Lab ID-Version‡: 11292819-1

Sample Layers	Asbestos Content
Beige Plaster with Multilayered Paint	ND
Sample Composite Homogeneity:	Moderate

Location: 2F, Interior Wall System-Beige Plaster with White Coating; Building F, Interior-Northwestern Classroom Area F104 at Southeastern Corner

Lab ID-Version‡: 11292820-1

Sample Layers	Asbestos Content
Beige Plaster with Multilayered Paint	ND
Sample Composite Homogeneity:	Moderate

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Client: Terracon Consultants, Inc. - Emeryville

C/O: William Frieszell

Re: R1207078; Houston School, 4600 East Acampo

Road, Limited Hazardous Materials Survey, Acampo

Date of Sampling: 03-03-2020

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ASBESTOS PLM REPORT**Location: 2G, Interior Wall System-Beige Plaster with White Coating; Building F, Interior-Boy' Restroom Area F116 at Northern Side Partition**

Lab ID-Version‡: 11292821-1

Sample Layers	Asbestos Content
White Compound with Multilayered Paint	ND
Sample Composite Homogeneity:	Moderate

Location: 3A, Acoustical Ceiling Texture-"Popcorn" Style; Building F, Interior-Principal's Office Area at Northwestern Corner

Lab ID-Version‡: 11292822-1

Sample Layers	Asbestos Content
Beige Popcorn Ceiling with Off-White Paint	ND
Composite Non-Asbestos Content:	15% Vermiculite
Sample Composite Homogeneity:	Moderate

Location: 3B, Acoustical Ceiling Texture-"Popcorn" Style; Building F, Interior-Office Area F105 at Southeastern Corner

Lab ID-Version‡: 11292823-1

Sample Layers	Asbestos Content
Beige Popcorn Ceiling with Off-White Paint	ND
Composite Non-Asbestos Content:	15% Vermiculite
Sample Composite Homogeneity:	Moderate

Location: 3C, Acoustical Ceiling Texture-"Popcorn" Style; Building F, Interior-Southeastern Exit Corridor Area at Southeastern Corner

Lab ID-Version‡: 11292824-1

Sample Layers	Asbestos Content
Beige Popcorn Ceiling with Off-White Paint	ND
Composite Non-Asbestos Content:	15% Vermiculite
Sample Composite Homogeneity:	Moderate

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Client: Terracon Consultants, Inc. - Emeryville

C/O: William Frieszell

Re: R1207078; Houston School, 4600 East Acampo Road, Limited Hazardous Materials Survey, Acampo

Date of Sampling: 03-03-2020

Date of Receipt: 03-05-2020

Date of Report: 03-06-2020

ASBESTOS PLM REPORT**Location: 3D, Acoustical Ceiling Texture-"Popcorn" Style; Building F, Interior-Northern Classroom Area F103 at Southwestern Side**

Lab ID-Version‡: 11292825-1

Sample Layers	Asbestos Content
Beige Popcorn Ceiling with Off-White Paint	ND
Composite Non-Asbestos Content:	15% Vermiculite
Sample Composite Homogeneity:	Moderate

Location: 3E, Acoustical Ceiling Texture-"Popcorn" Style; Building F, Interior-Northwestern Classroom Area F104 at Southeastern Corner

Lab ID-Version‡: 11292826-1

Sample Layers	Asbestos Content
Beige Popcorn Ceiling with Off-White Paint	ND
Composite Non-Asbestos Content:	15% Vermiculite
Sample Composite Homogeneity:	Moderate

Location: 4A, Carpet Mastic-Orange; Building F, Interior-Principal's Office Restroom Area at Northeastern Closet

Lab ID-Version‡: 11292827-1

Sample Layers	Asbestos Content
Orange Mastic	ND
Sample Composite Homogeneity:	Good

Location: 4B, Carpet Mastic-Orange; Building F, Interior-Counselor's Office Area F108 at Southern Side

Lab ID-Version‡: 11292828-1

Sample Layers	Asbestos Content
Orange Mastic	ND
Brown Wood	ND
Composite Non-Asbestos Content:	50% Cellulose
Sample Composite Homogeneity:	Moderate

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C/O: William Frieszell

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Date of Sampling: 03-03-2020

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ASBESTOS PLM REPORT**Location: 4C, Carpet Mastic-Orange; Building F, Interior-Northeastern Office Area F104 at Southeastern Corner**

Lab ID-Version‡: 11292829-1

Sample Layers	Asbestos Content
Orange Mastic	ND
Sample Composite Homogeneity: Good	

Location: 5A, Floor Tile System-12" Grey with Grey Flecks and Yellow Mastic; Building F, Interior-Entry Area F106 at Northwestern Corner

Lab ID-Version‡: 11292830-1

Sample Layers	Asbestos Content
Dark Gray Floor Tile	ND
Yellow Mastic	ND
Sample Composite Homogeneity: Moderate	

Location: 5B, Floor Tile System-12" Grey with Grey Flecks and Yellow Mastic; Building F, Interior-Entry Area F106 at Southeastern Corner

Lab ID-Version‡: 11292831-1

Sample Layers	Asbestos Content
Dark Gray Floor Tile	ND
Yellow Mastic	ND
White Leveling Compound	ND
Sample Composite Homogeneity: Moderate	

Location: 6A, Cove Base Adhesive-White on 6" Black Cove; Building F, Interior-Entry Area F106 at Northwestern Corner

Lab ID-Version‡: 11292832-1

Sample Layers	Asbestos Content
Black Baseboard	ND
White Adhesive	ND
Yellow Adhesive with Multilayered Paint	ND
Sample Composite Homogeneity: Poor	

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Client: Terracon Consultants, Inc. - Emeryville

C/O: William Frieszell

Re: R1207078; Houston School, 4600 East Acampo Road, Limited Hazardous Materials Survey, Acampo

Date of Sampling: 03-03-2020

Date of Receipt: 03-05-2020

Date of Report: 03-06-2020

ASBESTOS PLM REPORT**Location: 6B, Cove Base Adhesive-White on 6" Black Cove; Building F, Interior-Entry Area F106 at Southeastern Corner**

Lab ID-Version‡: 11292833-1

Sample Layers	Asbestos Content
Black Baseboard	ND
White Adhesive	ND
Brown Adhesive with Multilayered Paint	ND
Sample Composite Homogeneity: Poor	

Location: 7A, Floor Tile System-12" Tan with Brown Flecks and Clear Adhesive; Building F, Interior-Southeastern Restroom F109 Area at Southwestern Corner

Lab ID-Version‡: 11292834-1

Sample Layers	Asbestos Content
Tan Floor Tile	ND
Semi-Transparent Adhesive	ND
Brown Wood	ND
Composite Non-Asbestos Content:	20% Cellulose
Sample Composite Homogeneity: Moderate	

Location: 7B, Floor Tile System-12" Tan with Brown Flecks and Clear Adhesive; Building F, Interior-Southeastern Restroom F109 Area at Southeastern Corner

Lab ID-Version‡: 11292835-1

Sample Layers	Asbestos Content
Tan Floor Tile	ND
Semi-Transparent Adhesive	ND
Brown Wood	ND
Composite Non-Asbestos Content:	20% Cellulose
Sample Composite Homogeneity: Moderate	

Location: 8A, Cove Base Adhesive-Brown on 4" Orange Cove; Building F, Interior-Southeastern Restroom F109 Area at Southwestern Corner

Lab ID-Version‡: 11292836-1

Sample Layers	Asbestos Content
Orange Baseboard	ND
Dark Brown Adhesive	ND
Sample Composite Homogeneity: Moderate	

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Client: Terracon Consultants, Inc. - Emeryville

C/O: William Frieszell

Re: R1207078; Houston School, 4600 East Acampo Road, Limited Hazardous Materials Survey, Acampo

Date of Sampling: 03-03-2020

Date of Receipt: 03-05-2020

Date of Report: 03-06-2020

ASBESTOS PLM REPORT**Location: 8B, Cove Base Adhesive-Brown on 4" Orange Cove; Building F, Interior-Southeastern Restroom F109 Area at Northwestern Corner**

Lab ID-Version‡: 11292837-1

Sample Layers	Asbestos Content
Orange Baseboard	ND
Dark Brown Adhesive	ND
Sample Composite Homogeneity:	Moderate

Location: 9A, Cove Base Adhesive-White on 6" Grey Cove; Building F, Interior-Northeastern Office Area F104 at Southeastern Corner

Lab ID-Version‡: 11292838-1

Sample Layers	Asbestos Content
Gray Baseboard	ND
Off-White Adhesive	ND
Sample Composite Homogeneity:	Moderate

Location: 9B, Cove Base Adhesive-White on 6" Grey Cove; Building F, Interior-Southeastern Exit Corridor Area at Southwestern Corner

Lab ID-Version‡: 11292839-1

Sample Layers	Asbestos Content
Gray Baseboard	ND
Brown/White Adhesive	ND
Composite Non-Asbestos Content:	< 1% Talc
Sample Composite Homogeneity:	Moderate

Location: 10A, Ceiling Tile-2'x4' White Lay-In System, Pinhole/Fissure Pattern; Building F, Interior-Northeastern Office Area F104 at Northern Side

Lab ID-Version‡: 11292840-1

Sample Layers	Asbestos Content
Gray Ceiling Tile with White Surface	ND
Composite Non-Asbestos Content:	60% Cellulose 20% Glass Fibers
Sample Composite Homogeneity:	Good

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C/O: William Frieszell

Re: R1207078; Houston School, 4600 East Acampo Road, Limited Hazardous Materials Survey, Acampo

Date of Sampling: 03-03-2020

Date of Receipt: 03-05-2020

Date of Report: 03-06-2020

ASBESTOS PLM REPORT**Location: 10B, Ceiling Tile-2'x4' White Lay-In System, Pinhole/Fissure Pattern; Building F, Interior-Southern Hallway Area F115 at Southern Side**

Lab ID-Version‡: 11292841-1

Sample Layers	Asbestos Content
Gray Ceiling Tile with White Surface	ND
Composite Non-Asbestos Content:	60% Cellulose 20% Glass Fibers
Sample Composite Homogeneity:	Good

Location: 10C, Ceiling Tile-2'x4' White Lay-In System, Pinhole/Fissure Pattern; Building F, Interior-Southern Hallway Area F115 at Southeastern Corner

Lab ID-Version‡: 11292842-1

Sample Layers	Asbestos Content
Gray Ceiling Tile with White Surface	ND
Composite Non-Asbestos Content:	60% Cellulose 20% Glass Fibers
Sample Composite Homogeneity:	Good

Location: 11A, Drywall Texturing Material-"Knock Down" Style; Building F, Interior-Southern Hallway Area F115 at Southern Side

Lab ID-Version‡: 11292843-1

Sample Layers	Asbestos Content
White Texture with Tan Paint	ND
White Drywall with Brown Paper	ND
Composite Non-Asbestos Content:	10% Cellulose
Sample Composite Homogeneity:	Moderate

Location: 11B, Drywall Texturing Material-"Knock Down" Style; Building F, Interior-Southern Hallway Area F115 at Southern Corner

Lab ID-Version‡: 11292844-1

Sample Layers	Asbestos Content
White Texture with Tan Paint	ND
White Drywall with Brown Paper	ND
Composite Non-Asbestos Content:	10% Cellulose
Sample Composite Homogeneity:	Moderate

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C/O: William Frieszell

Re: R1207078; Houston School, 4600 East Acampo Road, Limited Hazardous Materials Survey, Acampo

Date of Sampling: 03-03-2020

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Date of Report: 03-06-2020

ASBESTOS PLM REPORT**Location: 11C, Drywall Texturing Material-"Knock Down" Style; Building F, Interior-Southwestern Hallway Area F115 at Southeastern Corner**

Lab ID-Version‡: 11292845-1

Sample Layers	Asbestos Content
White Texture with Tan Paint	ND
White Drywall with Brown Paper	ND
Composite Non-Asbestos Content:	10% Cellulose
Sample Composite Homogeneity:	Moderate

Location: 11D, Drywall Texturing Material-"Knock Down" Style; Building F, Interior-Southern Hallway Area F115 at Southeastern Side

Lab ID-Version‡: 11292846-1

Sample Layers	Asbestos Content
White Texture with Tan Paint	ND
White Drywall with Brown Paper	ND
Composite Non-Asbestos Content:	10% Cellulose
Sample Composite Homogeneity:	Moderate

Location: 11E, Drywall Texturing Material-"Knock Down" Style; Building F, Interior-Southern Hallway Area F115 at Northeastern Side

Lab ID-Version‡: 11292847-1

Sample Layers	Asbestos Content
White Texture with Tan Paint	ND
White Drywall with Brown Paper	ND
Composite Non-Asbestos Content:	10% Cellulose
Sample Composite Homogeneity:	Moderate

Location: 12A, Interior Wall System-Drywall with Joint Compound; Building F, Interior-Southern Hallway Area F115 at Southeastern Corner

Lab ID-Version‡: 11292848-1

Sample Layers	Asbestos Content
White Joint Compound with Tan Paint	ND
White Drywall with Brown Paper	ND
Composite Non-Asbestos Content:	10% Cellulose < 1% Glass Fibers
Sample Composite Homogeneity:	Moderate

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C/O: William Frieszell

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Date of Sampling: 03-03-2020

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Date of Report: 03-06-2020

ASBESTOS PLM REPORT**Location: 12B, Interior Wall System-Drywall with Joint Compound; Building F, Interior-Southern Hallway Area F114 at Southeastern Corner**

Lab ID-Version‡: 11292849-1

Sample Layers	Asbestos Content
White Compound with Tan Paint	ND
Cream Tape	ND
White Joint Compound	ND
White Drywall with Brown Paper	ND
Composite Non-Asbestos Content:	15% Cellulose < 1% Glass Fibers
Sample Composite Homogeneity:	Poor

Location: 12C, Interior Wall System-Drywall with Joint Compound; Building F, Interior-Southwestern Hallway Area F115 at Southeastern Corner

Lab ID-Version‡: 11292850-1

Sample Layers	Asbestos Content
White Compound with Tan Paint	ND
Cream Tape	ND
White Joint Compound with Brown Paper	ND
Gray Ceiling Tile with White Surface	ND
Composite Non-Asbestos Content:	15% Cellulose 5% Glass Fibers
Sample Composite Homogeneity:	Poor

Location: 13A, Epoxy Floor Coating-Grey; Building F, Interior-Boy's Restroom Area F116 at Entry Way

Lab ID-Version‡: 11292851-1

Sample Layers	Asbestos Content
Multicolored Coating Layers	ND
Sample Composite Homogeneity:	Moderate

Location: 13B, Epoxy Floor Coating-Grey; Building F, Interior-Girls' Restroom Area F117 at Entry Way

Lab ID-Version‡: 11292852-1

Sample Layers	Asbestos Content
Multicolored Coating Layers	ND
Sample Composite Homogeneity:	Moderate

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Client: Terracon Consultants, Inc. - Emeryville

C/O: William Frieszell

Re: R1207078; Houston School, 4600 East Acampo Road, Limited Hazardous Materials Survey, Acampo

Date of Sampling: 03-03-2020

Date of Receipt: 03-05-2020

Date of Report: 03-06-2020

ASBESTOS PLM REPORT**Location: 14A, Wall Patch System-Drywall with Joint Compound; Building F, Interior-Boy' Restroom Area F116 at Entry Way**

Lab ID-Version‡: 11292853-1

Sample Layers	Asbestos Content
Cream Tape	ND
White Joint Compound	ND
White Drywall with Brown Paper	ND
Composite Non-Asbestos Content:	15% Cellulose < 1% Glass Fibers
Sample Composite Homogeneity:	Poor

Location: 14B, Wall Patch System-Drywall with Joint Compound; Building F, Interior-Girls' Restroom Area F117 at Entry Way

Lab ID-Version‡: 11292854-1

Sample Layers	Asbestos Content
White Compound with Off-White Paint	ND
Cream Tape	ND
White Joint Compound	ND
White Drywall with Brown Paper	ND
Composite Non-Asbestos Content:	15% Cellulose < 1% Glass Fibers
Sample Composite Homogeneity:	Poor

Location: 15A, Cove Base Adhesive-White on 4" Brown Cove; Building F, Interior-Southern Hallway Area F115 at Southeastern Corner

Lab ID-Version‡: 11292855-1

Sample Layers	Asbestos Content
Brown Baseboard	ND
Off-White Adhesive	ND
Sample Composite Homogeneity:	Moderate

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Client: Terracon Consultants, Inc. - Emeryville

C/O: William Frieszell

Re: R1207078; Houston School, 4600 East Acampo
Road, Limited Hazardous Materials Survey, Acampo

Date of Sampling: 03-03-2020

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Date of Report: 03-06-2020

ASBESTOS PLM REPORT**Location: 15B, Cove Base Adhesive-White on 4" Brown Cove; Building F, Interior-
Southern Hallway Area F115 at Northwestern Corner**

Lab ID-Version‡: 11292856-1

Sample Layers	Asbestos Content
Brown Baseboard	ND
Off-White Adhesive	ND
Sample Composite Homogeneity:	Moderate

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Date of Report: 03-06-2020

ASBESTOS PLM REPORT**Location: 16A, Wainscot Adhesive-Yellow on White FRP Paneling; Building F, Interior-Southern Hallway Area F115 at Southeastern Corner**

Lab ID-Version‡: 11292857-1

Sample Layers	Asbestos Content
Yellow Adhesive	ND
Sample Composite Homogeneity: Good	

Location: 16B, Wainscot Adhesive-Yellow on White FRP Paneling; Building F, Interior-Southern Hallway Area F115 at Southwestern Corner

Lab ID-Version‡: 11292858-1

Sample Layers	Asbestos Content
Yellow Adhesive	ND
Sample Composite Homogeneity: Good	

Location: 17A, Ceramic Floor Tile System-1" White Tile with Grout and Mortar; Building F, Interior-Boys' Restroom Area F116 at Southern Urinal Platform

Lab ID-Version‡: 11292859-1

Sample Layers	Asbestos Content
Semi-Transparent Caulk	ND
Off-White Ceramic Tile	ND
Gray Grout	ND
Gray Mortar	ND
Sample Composite Homogeneity: Poor	

Location: 17B, Ceramic Floor Tile System-1" White Tile with Grout and Mortar; Building F, Interior-Boys' Restroom Area F116 at Southern Urinal Platform

Lab ID-Version‡: 11292860-1

Sample Layers	Asbestos Content
Semi-Transparent Caulk	ND
Off-White Ceramic Tile	ND
Gray Grout	ND
Gray Mortar	ND
Sample Composite Homogeneity: Poor	

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ASBESTOS PLM REPORT**Location: 18A, Ceramic Floor Tile System-Mosaic Grey Tile with Grout and Mortar;
Building B, Interior-Boys' Restroom Area B110 at Entry Way**

Lab ID-Version‡: 11292861-1

Sample Layers	Asbestos Content
Gray Ceramic Tile	ND
Gray Grout	ND
Gray Mortar	ND
Sample Composite Homogeneity: Poor	

**Location: 18B, Ceramic Floor Tile System-Mosaic Grey Tile with Grout and Mortar;
Building B, Interior-Girls' Restroom Area B108 at Entry Way**

Lab ID-Version‡: 11292862-1

Sample Layers	Asbestos Content
Gray Ceramic Tile	ND
Gray Grout	ND
Gray Mortar	ND
Sample Composite Homogeneity: Poor	

**Location: 19A, Ceramic Wall Tile System-4" Blue Tile with Grout and Mortar; Building
B, Interior-Boys' Restroom Area B110 at Entry Way**

Lab ID-Version‡: 11292863-1

Sample Layers	Asbestos Content
Blue Ceramic Tile	ND
White Grout	ND
Gray Mortar with White Non-Fibrous Material	ND
Sample Composite Homogeneity: Poor	

**Location: 19B, Ceramic Wall Tile System-4" Blue Tile with Grout and Mortar; Building
B, Interior-Boys' Restroom Area B110 at Entry Way**

Lab ID-Version‡: 11292864-1

Sample Layers	Asbestos Content
Blue Ceramic Tile	ND
White Grout	ND
Gray Mortar with White Non-Fibrous Material	ND
Sample Composite Homogeneity: Poor	

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Date of Sampling: 03-03-2020

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ASBESTOS PLM REPORT**Location: 20A, Ceramic Wall Tile System-4" Pink Tile with Grout and Mortar; Building B, Interior-Girls' Restroom Area B108 at Entry Way**

Lab ID-Version‡: 11292865-1

Sample Layers	Asbestos Content
Pink Ceramic Tile	ND
White Grout	ND
Gray Mortar	ND
Light Gray Mortar	ND
Sample Composite Homogeneity: Poor	

Location: 20B, Ceramic Wall Tile System-4" Pink Tile with Grout and Mortar; Building B, Interior-Girls' Restroom Area B108 at Entry Way

Lab ID-Version‡: 11292866-1

Sample Layers	Asbestos Content
Pink Ceramic Tile	ND
White Grout	ND
Gray Mortar	ND
Light Gray Mortar	ND
Sample Composite Homogeneity: Poor	

Location: 21A, Interior Wall System-White Plaster; Building B, Interior-Boys' Restroom Area B110 at Northwestern Corner

Lab ID-Version‡: 11292867-1

Sample Layers	Asbestos Content
White Plaster with Multilayered Paint	ND
Sample Composite Homogeneity: Moderate	

Location: 21B, Interior Wall System-White Plaster; Building B, Interior-Boys' Restroom Area B110 at Entry Way

Lab ID-Version‡: 11292868-1

Sample Layers	Asbestos Content
White Plaster with Multilayered Paint	ND
Sample Composite Homogeneity: Moderate	

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Date of Sampling: 03-03-2020

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ASBESTOS PLM REPORT**Location: 21C, Interior Wall System-White Plaster; Building B, Interior-Girls' Restroom Area B108 at Southern Partition**

Lab ID-Version‡: 11292869-1

Sample Layers	Asbestos Content
White Skim Coat with Multilayered Paint	ND
White Plaster with Multilayered Paint	ND
Sample Composite Homogeneity:	Moderate

Location: 22A, Ceiling Tile-12" Nailed White Tile with Pinhole Grid; Building E, Interior-Classroom Area #14 at Eastern Side

Lab ID-Version‡: 11292870-1

Sample Layers	Asbestos Content
Brown Ceiling Tile with White Surface	ND
Composite Non-Asbestos Content:	95% Cellulose
Sample Composite Homogeneity:	Good

Location: 23A, Above Ceiling Insulation-Fiberglass with Paper; Building E, Interior-Classroom Area #14 at Eastern Side

Lab ID-Version‡: 11292871-1

Sample Layers	Asbestos Content
Brown/Black Insulation Wrap	ND
Gray Insulation	ND
Composite Non-Asbestos Content:	40% Cellulose 25% Glass Fibers
Sample Composite Homogeneity:	Moderate

Location: 23B, Above Ceiling Insulation-Fiberglass with Paper; Building E, Interior-Classroom Area #14 at Eastern Side

Lab ID-Version‡: 11292872-1

Sample Layers	Asbestos Content
Brown/Black Insulation Wrap	ND
Gray Insulation	ND
Composite Non-Asbestos Content:	40% Cellulose 25% Glass Fibers
Sample Composite Homogeneity:	Moderate

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ASBESTOS PLM REPORT**Location: 24A, Interior Wall System-Smooth White Plaster; Building E, Interior-Classroom Area #14 at Eastern Wall**

Lab ID-Version‡: 11292873-1

Sample Layers	Asbestos Content
White Plaster with Multilayered Paint	ND
Sample Composite Homogeneity:	Moderate

Location: 24B, Interior Wall System-Smooth White Plaster; Building E, Interior-Classroom Area #12 at Western Wall

Lab ID-Version‡: 11292874-1

Sample Layers	Asbestos Content
White Plaster with Multilayered Paint	ND
Sample Composite Homogeneity:	Moderate

Location: 24C, Interior Wall System-Smooth White Plaster; Building E, Interior-Classroom Area #12 at Western Wall

Lab ID-Version‡: 11292875-1

Sample Layers	Asbestos Content
White Plaster with Multilayered Paint	ND
Sample Composite Homogeneity:	Moderate

Location: 25A, Interior Wall System-Textured Grey Plaster; Building E, Interior-Southern Hallway Area E1010 at Southern Wall

Lab ID-Version‡: 11292876-1

Sample Layers	Asbestos Content
Light Green Texture with Multilayered Paint	ND
Gray Plaster	ND
Sample Composite Homogeneity:	Moderate

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Client: Terracon Consultants, Inc. - Emeryville

C/O: William Frieszell

Re: R1207078; Houston School, 4600 East Acampo

Road, Limited Hazardous Materials Survey, Acampo

Date of Sampling: 03-03-2020

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ASBESTOS PLM REPORT**Location: 25B, Interior Wall System-Textured Grey Plaster; Building E, Interior-Southern Hallway Area E1010 at Northern Wall**

Lab ID-Version‡: 11292877-1

Sample Layers	Asbestos Content
Light Green Texture with Multilayered Paint	ND
Gray Plaster	ND
Sample Composite Homogeneity:	Moderate

Location: 25C, Interior Wall System-Textured Grey Plaster; Building E, Interior-Southern Hallway Area E1010 at Eastern Wall

Lab ID-Version‡: 11292878-1

Sample Layers	Asbestos Content
Light Green Texture with Multilayered Paint	ND
Gray Plaster	ND
Sample Composite Homogeneity:	Moderate

Location: 26A, HVAC Sealant-Silver Tape with Paint; Building C, Exterior-Classroom Area #6 at Northern HVAC Unit

Lab ID-Version‡: 11292879-1

Sample Layers	Asbestos Content
Off-White Sealant with Tan Paint	ND
Silver Tape with Semi-Transparent Adhesive	ND
Sample Composite Homogeneity:	Poor

Location: 26B, HVAC Sealant-Silver Tape with Paint; Building D, Exterior-Classroom Area #8 at Northern HVAC Unit

Lab ID-Version‡: 11292880-1

Sample Layers	Asbestos Content
Silver Tape with Semi-Transparent Adhesive and Tan Paint	ND
Sample Composite Homogeneity:	Moderate

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ASBESTOS PLM REPORT**Location: 26C, HVAC Sealant-Silver Tape with Paint; Building E, Exterior-Classroom Area #14 at Northern HVAC Unit**

Lab ID-Version‡: 11292881-1

Sample Layers	Asbestos Content
Silver Tape with Semi-Transparent Adhesive and Tan Paint	ND
Sample Composite Homogeneity:	Moderate

Location: 27A, Window Glazing Putty-Brown; Building C, Exterior-Classroom Area #6 at Northern Window Bank

Lab ID-Version‡: 11292882-1

Sample Layers	Asbestos Content
White Window Glazing with Brown Paint	ND
Sample Composite Homogeneity:	Moderate

Location: 27B, Window Glazing Putty-Brown; Building C, Exterior-Classroom Area #7 at Northern Window Bank

Lab ID-Version‡: 11292883-1

Sample Layers	Asbestos Content
Multicolored Paint Layers	ND
Silver Tape with Semi-Transparent Adhesive and Tan Paint	ND
Sample Composite Homogeneity:	Moderate

Location: 28A, Exterior Wall Systems-Grey Stucco with Paint; Building A, Exterior-Northern Side of Building at Northeastern Corner

Lab ID-Version‡: 11292884-1

Sample Layers	Asbestos Content
Green Stucco with Tan Paint	ND
Gray Stucco Fragments	ND
Sample Composite Homogeneity:	Moderate

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ASBESTOS PLM REPORT**Location: 28B, Exterior Wall Systems-Grey Stucco with Paint; Building A, Exterior-Western Side of Building Near Center**

Lab ID-Version‡: 11292885-1

Sample Layers	Asbestos Content
Green Stucco with Tan Paint	ND
Gray Stucco Fragments	ND
Sample Composite Homogeneity: Moderate	

Location: 28C, Exterior Wall Systems-Grey Stucco with Paint; Building B, Exterior-Western Side of Building Near Center

Lab ID-Version‡: 11292886-1

Sample Layers	Asbestos Content
Pink Stucco with Multilayered Paint	ND
Sample Composite Homogeneity: Moderate	

Location: 28D, Exterior Wall Systems-Grey Stucco with Paint; Building B, Exterior-Eastern Side of Building Near Center

Lab ID-Version‡: 11292887-1

Sample Layers	Asbestos Content
Green Stucco with Multilayered Paint	ND
Sample Composite Homogeneity: Moderate	

Location: 28E, Exterior Wall Systems-Grey Stucco with Paint; Building C, Exterior-Classroom Area #6 at Northern HVAC Unit

Lab ID-Version‡: 11292888-1

Sample Layers	Asbestos Content
Pink Stucco with Multilayered Paint	ND
Sample Composite Homogeneity: Moderate	

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ASBESTOS PLM REPORT**Location: 28F, Exterior Wall Systems-Grey Stucco with Paint; Building C, Exterior-Classroom Area #7 at Northern HVAC Unit**

Lab ID-Version‡: 11292889-1

Sample Layers	Asbestos Content
Multicolored Paint Layers with Green Texture	ND
Gray Stucco	ND
Sample Composite Homogeneity:	Moderate

Location: 28G, Exterior Wall Systems-Grey Stucco with Paint; Building E, Exterior-Classroom Area #14 at Northern HVAC Unit

Lab ID-Version‡: 11292890-1

Sample Layers	Asbestos Content
Multicolored Paint Layers with Green Texture	ND
Gray Stucco	ND
Sample Composite Homogeneity:	Moderate

Location: 28H, Exterior Wall Systems-Grey Stucco with Paint; Building E, Exterior-Classroom Area #10 at Northern HVAC Unit

Lab ID-Version‡: 11292891-1

Sample Layers	Asbestos Content
Multicolored Paint Layers with Green Texture	ND
Gray Stucco	ND
Sample Composite Homogeneity:	Moderate

Location: 28I, Exterior Wall Systems-Grey Stucco with Paint; Building F, Exterior-Southern Side of Building at Janitorial Supply Entry

Lab ID-Version‡: 11292892-1

Sample Layers	Asbestos Content
Pink Stucco with Multilayered Paint	ND
Sample Composite Homogeneity:	Moderate

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ASBESTOS PLM REPORT**Location: 28J, Exterior Wall Systems-Grey Stucco with Paint; Building F, Exterior-Southern Side of Building at Southeastern Corner**

Lab ID-Version‡: 11292893-1

Sample Layers	Asbestos Content
Pink Stucco with Multilayered Paint	ND
Sample Composite Homogeneity: Moderate	

Location: 29A, Window Putty-Grey; Building E, Exterior-Classroom Area #12 at Northern Window Bank

Lab ID-Version‡: 11292894-1

Sample Layers	Asbestos Content
Gray Window Putty with Multilayered Paint	ND
Sample Composite Homogeneity: Good	

Location: 29B, Window Putty-Grey; Building E, Exterior-Classroom Area #11 at Northern Window Bank

Lab ID-Version‡: 11292895-1

Sample Layers	Asbestos Content
Gray Window Putty with Multilayered Paint	ND
Sample Composite Homogeneity: Good	

Location: 29C, Window Putty-Grey; Building E, Exterior-Classroom Area #10 at Northern Window Bank

Lab ID-Version‡: 11292896-1

Sample Layers	Asbestos Content
Gray Window Putty with Multilayered Paint	ND
Sample Composite Homogeneity: Good	

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Client: Terracon Consultants, Inc. - Emeryville

C/O: William Frieszell

Re: R1207078; Houston School, 4600 East Acampo Road, Limited Hazardous Materials Survey, Acampo

Date of Sampling: 03-03-2020

Date of Receipt: 03-05-2020

Date of Report: 03-06-2020

ASBESTOS PLM REPORT**Location: 30A, Floor Tile-12" Beige with Tan Flecks, Compound and Black Mastic;
Building A, Interior-Main Multipurpose Area at Western Side**

Lab ID-Version‡: 11292897-1

Sample Layers	Asbestos Content
Beige Floor Tile	ND
Black Mastic	5% Chrysotile
Off-White Leveling Compound	ND
Sample Composite Homogeneity: Poor	

**Location: 30B, Floor Tile-12" Beige with Tan Flecks, Compound and Black Mastic;
Building A, Interior-Main Multipurpose Area at Approximate Center**

Lab ID-Version‡: 11292898-1

Sample Layers	Asbestos Content
Beige Floor Tile	ND
Black Mastic	5% Chrysotile
Off-White Leveling Compound	ND
Sample Composite Homogeneity: Poor	

**Location: 30C, Floor Tile-12" Beige with Tan Flecks, Compound and Black Mastic;
Building A, Interior-Main Multipurpose Area at Eastern Side**

Lab ID-Version‡: 11292899-1

Sample Layers	Asbestos Content
Beige Floor Tile	ND
Black Mastic	5% Chrysotile
Off-White Leveling Compound	ND
Sample Composite Homogeneity: Poor	

**Location: 31A, Cove Base Adhesive-Brown on 4" Brown Cove; Building A, Interior-Main
Multipurpose Room Area at Northeastern Corner**

Lab ID-Version‡: 11292900-1

Sample Layers	Asbestos Content
Brown Baseboard	ND
Off-White Adhesive	ND
Brown Baseboard	ND
Composite Non-Asbestos Content: < 1% Talc	
Sample Composite Homogeneity: Moderate	

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Client: Terracon Consultants, Inc. - Emeryville

C/O: William Frieszell

Re: R1207078; Houston School, 4600 East Acampo Road, Limited Hazardous Materials Survey, Acampo

Date of Sampling: 03-03-2020

Date of Receipt: 03-05-2020

Date of Report: 03-06-2020

ASBESTOS PLM REPORT**Location: 31B, Cove Base Adhesive-Brown on 4" Brown Cove; Building A, Interior-Main Multipurpose Room Area at Southeastern Corner**

Lab ID-Version‡: 11292901-1

Sample Layers	Asbestos Content
Brown Baseboard	ND
Off-White Adhesive	ND
Brown Baseboard	ND
Composite Non-Asbestos Content:	< 1% Talc
Sample Composite Homogeneity:	Moderate

Location: 32A, Concrete Slab Sealant-Grey; Building A, Exterior-Eastern Side of Building at Northeastern Corner

Lab ID-Version‡: 11292902-1

Sample Layers	Asbestos Content
Gray Sealant with Tan Paint	ND
Sample Composite Homogeneity:	Good

Location: 32B, Concrete Slab Sealant-Grey; Building A, Exterior-Eastern Side of Building at Northeastern Corner

Lab ID-Version‡: 11292903-1

Sample Layers	Asbestos Content
Gray Sealant with Tan Paint	ND
Sample Composite Homogeneity:	Good

Location: 33A, Interior Wall System -Drywall with Joint Compound; Building D, Interior-Classroom Area #9 at Northwestern Corner

Lab ID-Version‡: 11292904-1

Sample Layers	Asbestos Content
Cream Tape with Multilayered Paint	ND
Tan Joint Compound	2% Chrysotile
White Drywall with Brown Paper	ND
Composite Asbestos Fibrous Content:	< 1% Asbestos
Composite Non-Asbestos Content:	15% Cellulose
Sample Composite Homogeneity:	Poor

Comments: Composite asbestos content provided is only for Drywall/Joint compound. Composite content provided for this analysis has been performed by following the NESHAP guidelines.

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Client: Terracon Consultants, Inc. - Emeryville

C/O: William Frieszell

Re: R1207078; Houston School, 4600 East Acampo Road, Limited Hazardous Materials Survey, Acampo

Date of Sampling: 03-03-2020

Date of Receipt: 03-05-2020

Date of Report: 03-06-2020

ASBESTOS PLM REPORT**Location: 33B, Interior Wall System -Drywall with Joint Compound; Building D, Interior-Classroom Area #9 at Northeastern Corner**

Lab ID-Version‡: 11292905-1

Sample Layers	Asbestos Content
Tan Compound with Multilayered Paint	2% Chrysotile
Cream Tape	ND
Tan Joint Compound	2% Chrysotile
White Drywall with Brown Paper	ND
Composite Asbestos Fibrous Content:	< 1% Asbestos
Composite Non-Asbestos Content:	15% Cellulose
Sample Composite Homogeneity:	Poor

Comments: Composite asbestos content provided is only for Drywall/Joint compound. Composite content provided for this analysis has been performed by following the NESHAP guidelines.

Location: 33C, Interior Wall System -Drywall with Joint Compound; Building D, Interior-Eastern Closer Area E106 at Southeastern Corner

Lab ID-Version‡: 11292906-1

Sample Layers	Asbestos Content
White Joint Compound with Multilayered Paint	ND
White Drywall with Brown Paper	ND
Composite Non-Asbestos Content:	10% Cellulose
Sample Composite Homogeneity:	Moderate

Location: 34A, Interior Wall/Ceiling System-Rough White Plaster; Building C, Interior-Classroom Area #6 at Western Wall

Lab ID-Version‡: 11292907-1

Sample Layers	Asbestos Content
Beige Plaster with Off-White Paint	ND
Composite Non-Asbestos Content:	15% Vermiculite
Sample Composite Homogeneity:	Moderate

Location: 34B, Interior Wall/Ceiling System-Rough White Plaster; Building C, Interior-Classroom Area #6 at Eastern Wall

Lab ID-Version‡: 11292908-1

Sample Layers	Asbestos Content
Beige Plaster with Off-White Paint	ND
Composite Non-Asbestos Content:	15% Vermiculite
Sample Composite Homogeneity:	Moderate

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Client: Terracon Consultants, Inc. - Emeryville

C/O: William Frieszell

Re: R1207078; Houston School, 4600 East Acampo

Road, Limited Hazardous Materials Survey, Acampo

Date of Sampling: 03-03-2020

Date of Receipt: 03-05-2020

Date of Report: 03-06-2020

ASBESTOS PLM REPORT**Location: 34C, Interior Wall/Ceiling System-Rough White Plaster; Building C, Interior-Classroom Area #7 at Southern Ceiling**

Lab ID-Version‡: 11292909-1

Sample Layers	Asbestos Content
Beige Plaster with Off-White Paint	ND
Composite Non-Asbestos Content:	15% Vermiculite
Sample Composite Homogeneity:	Moderate

Location: 34D, Interior Wall/Ceiling System-Rough White Plaster; Building C, Interior-Janitor's Closet Area at Western Wall

Lab ID-Version‡: 11292910-1

Sample Layers	Asbestos Content
Off-White Plaster	ND
Sample Composite Homogeneity:	Good

Location: 34E, Interior Wall/Ceiling System-Rough White Plaster; Building C, Interior-Restroom Area at Eastern Wall

Lab ID-Version‡: 11292911-1

Sample Layers	Asbestos Content
Off-White Plaster with Multilayered Paint	ND
Sample Composite Homogeneity:	Moderate

Location: 35A, Interior Wall System-Smooth Plaster; Building C, Interior-Classroom Area #15 at Western Wall

Lab ID-Version‡: 11292912-1

Sample Layers	Asbestos Content
White Plaster and Paint	ND
Sample Composite Homogeneity:	Good

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Client: Terracon Consultants, Inc. - Emeryville

C/O: William Frieszell

Re: R1207078; Houston School, 4600 East Acampo Road, Limited Hazardous Materials Survey, Acampo

Date of Sampling: 03-03-2020

Date of Receipt: 03-05-2020

Date of Report: 03-06-2020

ASBESTOS PLM REPORT**Location: 35B, Interior Wall System-Smooth Plaster; Building C, Interior-Learning Center Area at Western Wall**

Lab ID-Version‡: 11292913-1

Sample Layers	Asbestos Content
Multicolored Paint and Plaster Fragments	ND
Sample Composite Homogeneity:	Moderate

Location: 35C, Interior Wall System-Smooth Plaster; Building C, Interior-Learning Center Area at Eastern Wall

Lab ID-Version‡: 11292914-1

Sample Layers	Asbestos Content
Multicolored Paint and Plaster Fragments	ND
Sample Composite Homogeneity:	Moderate

Location: 36A, Ceiling Tile-12" Spline-In System, Rough Textured; Building C, Interior-Learning Center Area at Western Side

Lab ID-Version‡: 11292915-1

Sample Layers	Asbestos Content
Gray Ceiling Tile with White Surface	ND
Composite Non-Asbestos Content:	50% Glass Fibers 30% Cellulose
Sample Composite Homogeneity:	Good

Location: 36B, Ceiling Tile-12" Spline-In System, Rough Textured; Building C, Interior-Learning Center Area at Eastern Side

Lab ID-Version‡: 11292916-1

Sample Layers	Asbestos Content
Gray Ceiling Tile with White Surface	ND
Composite Non-Asbestos Content:	50% Glass Fibers 30% Cellulose
Sample Composite Homogeneity:	Good

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Client: Terracon Consultants, Inc. - Emeryville

C/O: William Frieszell

Re: R1207078; Houston School, 4600 East Acampo Road, Limited Hazardous Materials Survey, Acampo

Date of Sampling: 03-03-2020

Date of Receipt: 03-05-2020

Date of Report: 03-06-2020

ASBESTOS PLM REPORT**Location: 37A, Cove Base Adhesive-Yellow on 6" Grey Cove; Building C, Interior-Classroom Area #6 at Southern Wall**

Lab ID-Version‡: 11292917-1

Sample Layers	Asbestos Content
Gray Baseboard	ND
Yellow Adhesive	ND
Sample Composite Homogeneity: Moderate	

Location: 37B, Cove Base Adhesive-Yellow on 6" Grey Cove; Building C, Interior-Classroom Area #8 at Western Wall

Lab ID-Version‡: 11292918-1

Sample Layers	Asbestos Content
Gray Baseboard	ND
Yellow Adhesive	ND
Sample Composite Homogeneity: Moderate	

Location: 37C, Cove Base Adhesive-Yellow on 6" Grey Cove; Building C, Interior-Southern Corridor Area at Southern Wall

Lab ID-Version‡: 11292919-1

Sample Layers	Asbestos Content
Gray Baseboard	ND
Yellow Adhesive	ND
Sample Composite Homogeneity: Moderate	

Location: 38A, Interior Wall System-Drywall with Joint Compound; Building D, Interior-Classroom Area #8 at Northwestern Corner

Lab ID-Version‡: 11292920-1

Sample Layers	Asbestos Content
Tan Compound with Multilayered Paint	2% Chrysotile
Cream Tape	ND
Tan Joint Compound	2% Chrysotile
White Drywall with Brown Paper	ND
Composite Asbestos Fibrous Content:	< 1% Asbestos
Composite Non-Asbestos Content:	15% Cellulose < 1% Glass Fibers
Sample Composite Homogeneity: Poor	

Comments: Composite asbestos content provided is only for Drywall/Joint compound. Composite content provided for this analysis has been performed by following the NESHAP guidelines.

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Client: Terracon Consultants, Inc. - Emeryville

C/O: William Frieszell

Re: R1207078; Houston School, 4600 East Acampo Road, Limited Hazardous Materials Survey, Acampo

Date of Sampling: 03-03-2020

Date of Receipt: 03-05-2020

Date of Report: 03-06-2020

ASBESTOS PLM REPORT**Location: 38B, Interior Wall System-Drywall with Joint Compound; Building D, Interior-Classroom Area #8 at Southeastern Corner**

Lab ID-Version‡: 11292921-1

Sample Layers	Asbestos Content
Tan Compound with Multilayered Paint	2% Chrysotile
Cream Tape	ND
Tan Joint Compound	2% Chrysotile
White Drywall with Brown Paper	ND
Composite Asbestos Fibrous Content:	< 1% Asbestos
Composite Non-Asbestos Content:	15% Cellulose
Sample Composite Homogeneity:	Poor

Comments: Composite asbestos content provided is only for Drywall/Joint compound. Composite content provided for this analysis has been performed by following the NESHAP guidelines.

Location: 39A, Interior Wall Systems-Drywall and Joint Compound; Building D, Interior-Storage Area D107 at Northeastern Corner

Lab ID-Version‡: 11292922-1

Sample Layers	Asbestos Content
Off-White Joint Compound	2% Chrysotile
White Drywall with Brown Paper	ND
Composite Asbestos Fibrous Content:	< 1% Asbestos
Composite Non-Asbestos Content:	10% Cellulose < 1% Glass Fibers
Sample Composite Homogeneity:	Moderate

Comments: Composite asbestos content provided is only for Drywall/Joint compound. Composite content provided for this analysis has been performed by following the NESHAP guidelines.

Location: 39B, Interior Wall Systems-Drywall and Joint Compound; Building D, Interior-Storage Area D107 at Southeastern Corner

Lab ID-Version‡: 11292923-1

Sample Layers	Asbestos Content
Off-White Joint Compound	2% Chrysotile
White Drywall with Brown Paper	ND
Composite Asbestos Fibrous Content:	< 1% Asbestos
Composite Non-Asbestos Content:	10% Cellulose < 1% Glass Fibers
Sample Composite Homogeneity:	Moderate

Comments: Composite asbestos content provided is only for Drywall/Joint compound. Composite content provided for this analysis has been performed by following the NESHAP guidelines.

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Client: Terracon Consultants, Inc. - Emeryville

C/O: William Frieszell

Re: R1207078; Houston School, 4600 East Acampo
Road, Limited Hazardous Materials Survey, Acampo

Date of Sampling: 03-03-2020

Date of Receipt: 03-05-2020

Date of Report: 03-06-2020

ASBESTOS PLM REPORT**Location: 40A, Interior Wall Systems-Rough Textured Plaster; Building B, Interior-Main
Library Area at Northwestern Corner**

Lab ID-Version‡: 11292924-1

Sample Layers	Asbestos Content
White Skim Coat with Off-White Paint	ND
Off-White Plaster	ND
Composite Non-Asbestos Content:	< 1% Cellulose
Sample Composite Homogeneity:	Moderate

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Client: Terracon Consultants, Inc. - Emeryville

C/O: William Frieszell

Re: R1207078; Houston School, 4600 East Acampo

Road, Limited Hazardous Materials Survey, Acampo

Date of Sampling: 03-03-2020

Date of Receipt: 03-05-2020

Date of Report: 03-06-2020

ASBESTOS PLM REPORT**Location: 40B, Interior Wall Systems-Rough Textured Plaster; Building B, Interior-Main Library Area at Northeastern Corner**

Lab ID-Version‡: 11292925-1

Sample Layers	Asbestos Content
Off-White Plaster	ND
Sample Composite Homogeneity:	Moderate

Location: 40C, Interior Wall Systems-Rough Textured Plaster; Building B, Interior-Main Library Area at Southwestern Corner

Lab ID-Version‡: 11292926-1

Sample Layers	Asbestos Content
Off-White Plaster	ND
Sample Composite Homogeneity:	Moderate

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1466 66th Street, Emeryville, California

002369386

ACM BULK SAMPLE DATA SHEET

PLM Analysis

Page 1 of 9

— Stop Analysis at First Positive

X Analyze All Samples

— Point Count Analysis (400-point)

✓ PM - W. Frieszell wfrieszell@terracon.com	PM - K. Schroeter Karin@rgaenv.com	PM - K. Pilgrim Ken@rgaenv.com
PM - T. Katchee Teddi@rgaenv.com	PM - S. Steiner steiff@rgaenv.com	PM - W. Frieszell wfrieszell@terracon.com

Project Name/Address	Houston School, 4600 East Acampo Road, Limited Hazardous Materials Survey, Acampo, CA					
Terracon Project Number	R1207078	Sampled By	W. Frieszell/ W. Renner	Sampling Date	March 3, 2020	
Laboratory	EMLab	X Other	Turn Around Time	24 Hrs	X	Other (Specify)

FAX OR E-MAIL REPORT TO: SEE ABOVE PROJECT MANAGER (PM)

HM# 1	Material Description: Sheet Flooring System - Beige Sandy Pattern	
Sample ID	Sample Location & Material Location	Quantity:
1 A	Building F, Interior - Principal's Office Restroom Area at Northwestern Corner	
1 B	Building F, Interior - Principal's Office Restroom Area at Northeastern Corner	
C		
Material Location:		
HM# 2	Material Description: Interior Wall System - Beige Plaster with White Coating	
Sample ID	Sample Location & Material Location	Quantity:
2 A	Building F, Interior - Principal's Office Restroom Area at Southwestern Corner	
2 B	Building F, Interior - Southeastern Exit Corridor Area at Southeastern Corner	
2 C	Building F, Interior - Counselor's Office Area F108 at Northwestern Corner	
2 D	Building F, Interior - Janitor's Closet Area F111 at Western Wall	
2 E	Building F, Interior - Northern Classroom Area F103 at Southwestern Side	
2 F	Building F, Interior - Northwestern Classroom Area F104 at Southeastern Corner	
2 G	Building F, Interior - Boy's Restroom Area F116 at Northern Side Partition	
Material Location:		
HM# 3	Material Description: Acoustical Ceiling Texture - "Popcorn" Style	
Sample ID	Sample Location & Material Location	Quantity:
3 A	Building F, Interior - Principal's Office Area at Northwestern Corner	
3 B	Building F, Interior - Office Area F105 at Southeastern Corner	
3 C	Building F, Interior - Southeastern Exit Corridor Area at Southeastern Corner	
3 D	Building F, Interior - Northern Classroom Area F103 at Southwestern Side	
3 E	Building F, Interior - Northwestern Classroom Area F104 at Southeastern Corner	
Material Location:		
HM# 4	Material Description: Carpet Mastic - Orange	
Sample ID	Sample Location & Material Location	Quantity:
4 A	Building F, Interior - Principal's Office Restroom Area at Northeastern Closet	
4 B	Building F, Interior - Counselor's Office Area F108 at Southern Side	
4 C	Building F, Interior - Northeastern Office Area F104 at Southeastern Corner	
Material Location:		

NAME:	SIGNATURE:	COMPANY:	DATE:
Relinquished By: William Frieszell	<i>William Frieszell</i>	Terracon Consultants	March 5, 2020
Received By: <i>2K Wagon</i>		<i>Redx 3/5/2020 945</i>	
Relinquished By:			
Received By:			



ACM BULK SAMPLE DATA SHEET

* PLM Analysis

Page 2 of 9

— Stop Analysis at First Positive

☒ Analyze All Samples

— Point Count Analysis (400-point)

<input checked="" type="checkbox"/>	PM - W. Frieszell wfrieszell@terracon.com	PM - K. Schroeter Karin@rgaenv.com	PM - K. Pilgrim Ken@rgaenv.com
	PM - T. Kaitchoe Tedd@rgaenv.com	PM - S. Steiner steff@rgaenv.com	PM - W. Frieszell wfrieszell@terracon.com

Project Name/Address	Houston School, 4600 East Acampo Road, Limited Hazardous Materials Survey, Acampo, CA				
Terracon Project Number	R1207078	Sampled By	W. Frieszell/ W. Renner	Sampling Date	March 3, 2020
Laboratory	EMLab	<input checked="" type="checkbox"/> Other	Turn Around Time	24 Hrs	<input checked="" type="checkbox"/> Other (Specify)

FAX OR E-MAIL REPORT TO: SEE ABOVE PROJECT MANAGER (PM)

HM#	5	Material Description: Floor Tile System - 12" Grey with Grey Flecks and Yellow Mastic	
Sample ID		Sample Location & Material Location	Quantity:
	5 A	Building F, Interior - Entry Area F106 at Northwestern Corner	
	5 B	Building F, Interior - Entry Area F106 at Southeastern Corner	
	C		
Material Location:			
HM#	6	Material Description: Cove Base Adhesive - White on 6" Black Cove	
Sample ID		Sample Location & Material Location	Quantity:
	6 A	Building F, Interior - Entry Area F106 at Northwestern Corner	
	6 B	Building F, Interior - Entry Area F106 at Southeastern Corner	
	C		
Material Location:			
HM#	7	Material Description: Floor Tile System - 12" Tan with Brown Flecks and Clear Adhesive	
Sample ID		Sample Locations	Quantity:
	7 A	Building F, Interior - Southeastern Restroom F109 Area at Southwestern Corner	
	7 B	Building F, Interior - Southeastern Restroom F109 Area at Southeastern Corner	
	C		
Material Location:			
HM#	8	Material Description: Cove Base Adhesive - Brown on 4" Orange Cove	
Sample ID		Sample Location & Material Location	Quantity:
	8 A	Building F, Interior - Southeastern Restroom F109 Area at Southwestern Corner	
	8 B	Building F, Interior - Southeastern Restroom F109 Area at Northwestern Corner	
	C		
Material Location:			
HM#	9	Material Description: Cove Base Adhesive - White on 6" Grey Cove	
Sample ID		Sample Location & Material Location	Quantity:
	9 A	Building F, Interior - Northeastern Office Area F104 at Southeastern Corner	
	9 B	Building F, Interior - Southeastern Exit Corridor Area at Southwestern Corner	
	C		
Material Location:			

	NAME:	SIGNATURE:	COMPANY:	DATE:
Relinquished By:	William Frieszell	<i>William Frieszell</i>	Terracon Consultants	March 5, 2020
Received By:	<i>Eric Wagon</i>		<i>For 945</i>	<i>JS/sad</i>
Relinquished By:				
Received By:				



ACM BULK SAMPLE DATA SHEET

* PLM Analysis Page 3 of 9

— Stop Analysis at First Positive

☒ Analyze All Samples

— Point Count Analysis (400-point)

<input checked="" type="checkbox"/> PM - W. Frieszell wfrieszell@terracon.com	PM - K. Schroeter Karin@gaenv.com	PM - K. Pilgrim Ken@gaenv.com
PM - T. Katchee Tedd@gaenv.com	PM - S. Steiner steff@gaenv.com	PM - W. Frieszell wfrieszell@terracon.com

Project Name/Address	Houston School, 4600 East Acampo Road, Limited Hazardous Materials Survey, Acampo, CA					
Terracon Project Number	R1207078	Sampled By	W. Frieszell/ W. Renner	Sampling Date	March 3, 2020	
Laboratory	EMLab	<input checked="" type="checkbox"/> Other	Turn Around Time	24 Hrs	<input checked="" type="checkbox"/> Other (Specify)	

FAX OR E-MAIL REPORT TO: SEE ABOVE PROJECT MANAGER (PM)

HM# 10	Material Description: Ceiling Tile - 2'x4' White Lay-in System, Pinhole/Fissure Pattern	
Sample ID	Sample Location & Material Location	Quantity:
10 A	Building F, Interior - Northeastern Office Area F104 at Northern Side	
10 B	Building F, Interior - Southern Hallway Area F115 at Southern Side	
10 C	Building F, Interior - Southern Hallway Area F115 at Southeastern Corner	
Material Location:		
HM# 11	Material Description: Drywall Texturing Material - "Knock Down" Style	
Sample ID	Sample Location & Material Location	Quantity:
11 A	Building F, Interior - Southern Hallway Area F115 at Southern Side	
11 B	Building F, Interior - Southern Hallway Area F115 at Southeastern Corner	
11 C	Building F, Interior - Southwestern Hallway Area F115 at Southeastern Corner	
11 D	Building F, Interior - Southern Hallway Area F115 at Southeastern Side	
11 E	Building F, Interior - Southern Hallway Area F115 at Northeastern Side	
Material Location:		
HM# 12	Material Description: Interior Wall System - Drywall with Joint Compound	
Sample ID	Sample Locations	Quantity:
12 A	Building F, Interior - Southern Hallway Area F115 at Southeastern Corner	
12 B	Building F, Interior - Southern Hallway Area F114 at Southeastern Corner	
12 C	Building F, Interior - Southwestern Hallway Area F115 at Southeastern Corner	
Material Location:		
HM# 13	Material Description: Epoxy Floor Coating - Grey	
Sample ID	Sample Location & Material Location	Quantity:
13 A	Building F, Interior - Boy' Restroom Area F116 at Entry Way	
13 B	Building F, Interior - Girls' Restroom Area F117 at Entry Way	
Material Location:		
HM# 14	Material Description: Wall Patch System - Drywall with Joint Compound	
Sample ID	Sample Location & Material Location	Quantity:
14 A	Building F, Interior - Boy' Restroom Area F116 at Entry Way	
14 B	Building F, Interior - Girls' Restroom Area F117 at Entry Way	
Material Location:		

NAME:	SIGNATURE:	COMPANY:	DATE:
Relinquished By: William Frieszell	<i>William Frieszell</i>	Terracon Consultants	March 5, 2020
Received By: <i>AK Wynn</i>		<i>for 945</i>	<i>3/5/2020</i>
Relinquished By:			
Received By:			

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<input checked="" type="checkbox"/>	PM - W. Frieszell wfrieszell@terracon.com	PM - K. Schroeter Karin@rgaenv.com	PM - K. Pilgrim Ken@rgaenv.com
	PM - T. Kattchee Ted@rgaenv.com	PM - S. Steiner steff@rgaenv.com	PM - W. Frieszell wfrieszell@terracon.com

Project Name/Address	Houston School, 4600 East Acampo Road, Limited Hazardous Materials Survey, Acampo, CA						
Terracon Project Number	R1207078	Sampled By	W. Frieszell/ W. Renner		Sampling Date	March 3, 2020	
Laboratory	EMLab	<input checked="" type="checkbox"/> Other	Turn Around Time	24 Hrs	<input checked="" type="checkbox"/> Other (Specify)		

FAX OR E-MAIL REPORT TO: SEE ABOVE PROJECT MANAGER (PM)

HM# 15	Material Description: Cove Base Adhesive - White on 4" Brown Cove	
Sample ID	Sample Location & Material Location	Quantity:
15 A	Building F, Interior - Southern Hallway Area F115 at Southeastern Corner	
15 B	Building F, Interior - Southern Hallway Area F115 at Northwestern Corner	
C		
Material Location:		
HM# 16	Material Description: Wainscot Adhesive - Yellow on White FRP Paneling	
Sample ID	Sample Location & Material Location	Quantity:
16 A	Building F, Interior - Southern Hallway Area F115 at Southeastern Corner	
16 B	Building F, Interior - Southern Hallway Area F115 at Southwestern Corner	
C		
Material Location:		
HM# 17	Material Description: Ceramic Floor Tile System - 1" White Tile with Grout and Mortar	
Sample ID	Sample Locations	Quantity:
17 A	Building F, Interior - Boys' Restroom Area F116 at Southern Urinal Platform	
17 B	Building F, Interior - Boys' Restroom Area F116 at Southern Urinal Platform	
C		
Material Location:		
HM# 18	Material Description: Ceramic Floor Tile System - Mosaic Grey Tile with Grout and Mortar	
Sample ID	Sample Location & Material Location	Quantity:
18 A	Building B, Interior - Boys' Restroom Area B110 at Entry Way	
18 B	Building B, Interior - Girls' Restroom Area B108 at Entry Way	
C		
Material Location:		
HM# 19	Material Description: Ceramic Wall Tile System - 4" Blue Tile with Grout and Mortar	
Sample ID	Sample Location & Material Location	Quantity:
A	Building B, Interior - Boys' Restroom Area B110 at Entry Way	
B	Building B, Interior - Boys' Restroom Area B110 at Entry Way	
C		
Material Location:		

	NAME:	SIGNATURE:	COMPANY:	DATE:
Relinquished By:	William Frieszell	<i>William Frieszell</i>	Terracon Consultants	March 5, 2020
Received By:	<i>Ted Kattchee</i>		<i>FEDX. 945</i>	<i>3/5/2020</i>
Relinquished By:				
Received By:				



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<input checked="" type="checkbox"/>	PM - W. Frieszell wfrieszell@terracon.com	PM - K. Schroeter Karin@rgaenv.com	PM - K. Pilgrim Ken@rgaenv.com
	PM - T. Katschee Tedd@rgaenv.com	PM - S. Steiner steff@rgaenv.com	PM - W. Frieszell wfrieszell@terracon.com

Project Name/Address	Houston School, 4600 East Acampo Road, Limited Hazardous Materials Survey, Acampo, CA				
Terracon Project Number	R1207078	Sampled By	W. Frieszell/ W. Renner	Sampling Date	March 3, 2020
Laboratory	EMLab	<input checked="" type="checkbox"/> Other	Turn Around Time	24 Hrs	<input checked="" type="checkbox"/> Other (Specify)

FAX OR E-MAIL REPORT TO: SEE ABOVE PROJECT MANAGER (PM)

HM# 20	Material Description: Ceramic Wall Tile System - 4" Pink Tile with Grout and Mortar	
Sample ID	Sample Location & Material Location	Quantity:
20 A	Building B, Interior - Girls' Restroom Area B108 at Entry Way	
20 B	Building B, Interior - Girls' Restroom Area B108 at Entry Way	
C		
Material Location:		
HM# 21	Material Description: Interior Wall System - White Plaster	
Sample ID	Sample Location & Material Location	Quantity:
21 A	Building B, Interior - Boys' Restroom Area B110 at Northwestern Corner	
21 B	Building B, Interior - Boys' Restroom Area B110 at Entry Way	
21 C	Building B, Interior - Girls' Restroom Area B108 at Southern Partition	
Material Location:		
HM# 22	Material Description: Ceiling Tile - 12" Nailed White Tile with Pinhole Grid	
Sample ID	Sample Locations	Quantity:
22 A	Building E, Interior - Classroom Area #14 at Eastern Side	
22 B		
22 C		
Material Location:		
HM# 23	Material Description: Above Ceiling Insulation - Fiberglass with Paper	
Sample ID	Sample Location & Material Location	Quantity:
23 A	Building E, Interior - Classroom Area #14 at Eastern Side	
23 B	Building E, Interior - Classroom Area #14 at Eastern Side	
C		
Material Location:		
HM# 24	Material Description: Interior Wall System - Smooth White Plaster	
Sample ID	Sample Location & Material Location	Quantity:
24 A	Building E, Interior - Classroom Area #14 at Eastern Wall	
24 B	Building E, Interior - Classroom Area #12 at Western Wall	
24 C	Building E, Interior - Classroom Area #12 at Western Wall	
Material Location:		

	NAME:	SIGNATURE:	COMPANY:	DATE:
Relinquished By:	William Frieszell	<i>William Frieszell</i>	Terracon Consultants	March 5, 2020
Received By:	<i>2X Wayne</i>		<i>Fedex 945</i>	<i>3/5/2020</i>
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Received By:				

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	PM - T. Katchee Todd@rgaenv.com	PM - S. Steiner steff@rgaenv.com	PM - W. Frieszell wfrieszell@terracon.com

Project Name/Address	Houston School, 4600 East Acampo Road, Limited Hazardous Materials Survey, Acampo, CA						
Terracon Project Number	R1207075	Sampled By	W. Frieszell/ W. Renner		Sampling Date	March 3, 2020	
Laboratory	EMLab	<input checked="" type="checkbox"/> Other	Turn Around Time	24 Hrs	<input checked="" type="checkbox"/> Other (Specify)		

FAX OR E-MAIL REPORT TO: SEE ABOVE PROJECT MANAGER (PM)

HM#	25	Material Description: Interior Wall System - Textured Grey Plaster	
Sample ID	Sample Location & Material Location		Quantity:
25	A	Building E, Interior - Southern Hallway Area E1010 at Southern Wall	
25	B	Building E, Interior - Southern Hallway Area E1010 at Northern Wall	
25	C	Building E, Interior - Southern Hallway Area E1010 at Eastern Wall	
Material Location:			
HM#	26	Material Description: HVAC Sealant - Silver Tape with Paint	
Sample ID	Sample Location & Material Location		Quantity:
26	A	Building C, Exterior - Classroom Area #6 at Northern HVAC Unit	
26	B	Building D, Exterior - Classroom Area #8 at Northern HVAC Unit	
26	C	Building E, Exterior - Classroom Area #14 at Northern HVAC Unit	
Material Location:			
HM#	27	Material Description: Window Glazing Putty - Brown	
Sample ID	Sample Locations		Quantity:
27	A	Building C, Exterior - Classroom Area #6 at Northern Window Bank	
27	B	Building C, Exterior - Classroom Area #7 at Northern Window Bank	
Material Location:			
HM#	28	Material Description: Exterior Wall Systems - Grey Stucco with Paint	
Sample ID	Sample Location & Material Location		Quantity:
28	A	Building A, Exterior - Northern Side of Building at Northeastern Corner	
28	B	Building A, Exterior - Western Side of Building near Center	
28	C	Building B, Exterior - Western Side of Building near Center	
28	D	Building B, Exterior - Eastern Side of Building near Center	
28	E	Building C, Exterior - Classroom Area #6 at Northern HVAC Unit	
28	F	Building C, Exterior - Classroom Area #7 at Northern HVAC Unit	
28	G	Building E, Exterior - Classroom Area #14 at Northern HVAC Unit	
28	H	Building E, Exterior - Classroom Area #10 at Northern HVAC Unit	
28	I	Building F, Exterior - Southern Side of Building at Janitorial Supply Entry	
28	J	Building F, Exterior - Southern Side of Building at Southeastern Corner	
Material Location:			

	NAME:	SIGNATURE:	COMPANY:	DATE:
Relinquished By:	William Frieszell	<i>William Frieszell</i>	Terracon Consultants	March 5, 2020
Received By:	<i>2 K Wap</i>		<i>KD, 945</i>	<i>3/5/2020</i>
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	PM - T. Katchoe Tedd@rgaenv.com	PM - S. Steiner steff@rgaenv.com	PM - W. Frieszell wfrieszell@terracon.com

Project Name/Address	Houston School, 4600 East Acampo Road, Limited Hazardous Materials Survey, Acampo, CA				
Terracon Project Number	R1207078	Sampled By	W. Frieszell/ W. Renner	Sampling Date	March 3, 2020
Laboratory	EMLab	<input checked="" type="checkbox"/> Other	Turn Around Time	24 Hrs	<input checked="" type="checkbox"/> Other (Specify)

FAX OR E-MAIL REPORT TO: SEE ABOVE PROJECT MANAGER (PM)

HM# 29	Material Description: Window Putty - Grey	
Sample ID	Sample Location & Material Location	Quantity:
29 A	Building E, Exterior - Classroom Area #12 at Northern Window Bank	
29 B	Building E, Exterior - Classroom Area #11 at Northern Window Bank	
29 C	Building E, Exterior - Classroom Area #10 at Northern Window Bank	
Material Location:		
HM# 30	Material Description: Floor Tile - 12" Beige with Tan Flecks, Compound and Black Mastic	
Sample ID	Sample Location & Material Location	Quantity:
30 A	Building A, Interior - Main Multipurpose Room Area at Western Side	
30 B	Building A, Interior - Main Multipurpose Room Area at Approximate Center	
30 C	Building A, Interior - Main Multipurpose Room Area at Eastern Side	
Material Location:		
HM# 31	Material Description: Cove Base Adhesive - Brown on 4" Brown Cove	
Sample ID	Sample Locations	Quantity:
31 A	Building A, Interior - Main Multipurpose Room Area at Northeastern Corner	
31 B	Building A, Interior - Main Multipurpose Room Area at Southeastern Corner	
31 C		
Material Location:		
HM# 32	Material Description: Concrete Slab Sealant - Grey	
Sample ID	Sample Location & Material Location	Quantity:
32 A	Building A, Exterior - Eastern Side of Building at Northeastern Corner	
32 B	Building A, Exterior - Eastern Side of Building at Northeastern Corner	
32 C		
Material Location:		
HM# 33	Material Description: Interior Wall System - Drywall with Joint Compound	
Sample ID	Sample Location & Material Location	Quantity:
33 A	Building D, Interior - Classroom Area #9 at Northwestern Corner	
33 B	Building D, Interior - Classroom Area #9 at Northeastern Corner	
33 C	Building E, Interior - Eastern Closer Area E106 at Southeastern Corner	
Material Location:		

	NAME:	SIGNATURE:	COMPANY:	DATE:
Relinquished By:	William Frieszell	<i>Will Frieszell</i>	Terracon Consultants	March 5, 2020
Received By:	<i>JK</i>		<i>FED/ 945</i>	<i>3/5/2020</i>
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<input checked="" type="checkbox"/>	PM - W. Frieszell wfrieszell@terracon.com	PM - K. Schroeter Karin@rgaenv.com	PM - K. Pilgrim Ken@rgaenv.com
	PM - T. Katchee Tedd@rgaenv.com	PM - S. Steiner steff@rgaenv.com	PM - W. Frieszell wfrieszell@terracon.com

Project Name/Address	Houston School, 4600 East Acampo Road, Limited Hazardous Materials Survey, Acampo, CA						
Terracon Project Number	R1207078	Sampled By	W. Frieszell/ W. Renner		Sampling Date	March 3, 2020	
Laboratory	EMLab	<input checked="" type="checkbox"/> Other	Turn Around Time	24 Hrs	<input checked="" type="checkbox"/> Other (Specify)		

FAX OR E-MAIL REPORT TO: SEE ABOVE PROJECT MANAGER (PM)

HM# 34	Material Description: Interior Wall/Ceiling System - Rough White Plaster	
Sample ID	Sample Location & Material Location	Quantity:
34 A	Building C, Interior - Classroom Area #6 at Western Wall	
34 B	Building C, Interior - Classroom Area #6 at Eastern Wall	
34 C	Building C, Interior - Classroom Area #7 at Southern Ceiling	
34 D	Building C, Interior - Janitor's Closet Area at Western Wall	
34 E	Building C, Interior - Restroom Area at Eastern Wall	
Material Location:		
HM# 35	Material Description: Interior Wall System - Smooth Plaster	
Sample ID	Sample Location & Material Location	Quantity:
35 A	Building C, Interior - Classroom Area # 15 at Western Wall	
35 B	Building C, Interior - Learning Center Area at Western Wall	
35 C	Building C, Interior - Learning Center Area at Eastern Wall	
Material Location:		
HM# 36	Material Description: Ceiling Tile - 12" Spline-in System, Rough Textured	
Sample ID	Sample Locations	Quantity:
36 A	Building C, Interior - Learning Center Area at Western Side	
36 B	Building C, Interior - Learning Center Area at Eastern Side	
Material Location:		
HM# 37	Material Description: Cove Base Adhesive - Yellow on 6" Grey Cove	
Sample ID	Sample Location & Material Location	Quantity:
37 A	Building C, Interior - Classroom Area # 6 at Southern Wall	
37 B	Building D, Interior - Classroom Area # 8 at Western Wall	
37 C	Building C, Interior - Southern Corridor Area at Southern Wall	
Material Location:		
HM# 38	Material Description: Interior Wall System - Drywall with Joint Compound	
Sample ID	Sample Location & Material Location	Quantity:
38 A	Building D, Interior - Classroom Area # 8 at Northwestern Corner	
38 B	Building D, Interior - Classroom Area # 8 at Southeastern Corner	
Material Location:		

NAME:	SIGNATURE:	COMPANY:	DATE:
Relinquished By: William Frieszell	<i>William Frieszell</i>	Terracon Consultants	March 5, 2020
Received By: <i>2K Wayne</i>		<i>FEDX</i>	<i>3/5/2020 945</i>
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PM - T. Katchee Ted@terracon.com	PM - S. Steiner steff@terracon.com	PM - W. Frieszell wfrieszell@terracon.com

Project Name/Address	Houston School, 4600 East Acampo Road, Limited Hazardous Materials Survey, Acampo, CA				
Terracon Project Number	R1207078	Sampled By	W. Frieszell/ W. Renner	Sampling Date	March 3, 2020
Laboratory	EMLab	<input checked="" type="checkbox"/> Other	Turn Around Time	24 Hrs	<input checked="" type="checkbox"/> Other (Specify)

FAX OR E-MAIL REPORT TO: SEE ABOVE PROJECT MANAGER (PM)

HM#	39	Material Description: Interior Wall Systems - Drywall and Joint Compound		
Sample ID	Sample Location & Material Location		Quantity:	
	39 A	Building D, Interior - Storage Area D107 at Northeastern Corner		
	39 B	Building D, Interior - Storage Area D107 at Southeastern Corner		
	C			
Material Location:				
HM#	40	Material Description: Interior Wall Systems - Rough Textured Plaster		
Sample ID	Sample Location & Material Location		Quantity:	
	40 A	Building B, Interior - Main Library Area at Northwestern Corner		
	40 B	Building B, Interior - Main Library Area at Northeastern Corner		
	40 C	Building B, Interior - Main Library Area at Southwestern Corner		
Material Location:				
HM#	Material Description:			
Sample ID	Sample Locations		Quantity:	
	A			
	B			
	C			
Material Location:				
HM#	Material Description:			
Sample ID	Sample Location & Material Location		Quantity:	
	A			
	B			
	C			
Material Location:				
HM#	Material Description:			
Sample ID	Sample Location & Material Location		Quantity:	
	A			
	B			
	C			
Material Location:				

NAME:	SIGNATURE:	COMPANY:	DATE:
Relinquished By: William Frieszell	<i>William Frieszell</i>	Terracon Consultants	March 5, 2020
Received By: <i>De Way</i>		<i>FOX 945</i>	<i>3/5/2020</i>
Relinquished By:			
Received By:			



730 Howe Avenue, Suite 450
Sacramento, CA 95825
Phone: 916.921.2112
Fax: 916.921.2212

March 19, 2020

Sign-In Sheet

Mandatory Pre-Bid Meeting

Houston Modernization

Lodi Unified School District

	Name	Company	Phone/Fax	Email
1	Stephen Henry	H+A	916.799.3027	stephen@henry-architects.com
2	Ben Pinasco	Town & Country	209-469-2211	townandcountry55c@gmail.com
3	Adrian Rheeder	EMCOR MESA ENERGY SYSTEMS	416 215 0109	ARHEEDER@EMCOR.NET
4	Robert Lewis	PROBUILDERS	916 225 0373	SEBASTIAN@SACPROBUILDERS.COM
5	Killian O'Brien	Bobo Construction Inc.	916-383-7777	bestimating@bobocconstructioninc.com
6	Arlene Larsen	Bockman + Woody Electric	209-464-4878	arlene@bockmanwoody.com
7	Stephen Seibly	F & H Construction	209-931-3738 931-4427	estimating@f-hconst.com
8	Toheed Asghar	SABOO INC	626-260-2849	TASGHAR@SBCGLOBAL.NET
9	Cathy Munoz	DIEDE CONSTRUCTION	209.369.8255	estimating@diuedeconstruction.com
10	Alyssa Courtneyman	BRCO Constructors Inc.	416-233-9373	acourtman@gobrc.com

March 19, 2020

Mandatory Pre-Bid Meeting

Houston Modernization

Lodi Unified School District

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