

BID ADDENDUM NO 3

Project: MADERA UNIFIED SCHOOL DISTRICT MADERA HIGH SCHOOL CTE MODERNIZATION DSA FILE#20-H3 DSA APPLICATION #02-116098 19six Architects Project No. 16052.01 MUSD Bid No. 021919

Date: April 12, 2019

To all bidders submitting proposals for the above captioned project. This Addendum is hereby included in the Contract Documents to the same extent as though it were originally included therein. The following items modify, add to, delete from, or explain the drawings and/or specifications. The contents of this Addendum shall take precedence over the original specifications and plans.

<u>BID DEADLINE:</u> The bid date remains, but the bid time is adjusted, postponed by one hour.

Bids are now due on: 11:00 a.m. Thursday, April 18th, 2019

- at: Madera Unified School District Purchasing Office 1205 Madera Avenue Madera, CA 93637
- Item #1: Document 00020, Notice Inviting Bids. The Notice Inviting Bids is revised with the new Bid Due Time shown above, **11 am** on April 18, 2019.
- **Item #2:** Asbestos and Lead Survey Report. The newly issued Asbestos and Lead Survey Report by FACS, dated April 8, 2019, the subject of Bid Addendum No. 2, Item 12, is attached. Though FACS is expected to provide monitoring services during abatement in the construction period under contract to the District, abatement is to be performed by the General Contractor in the Base Bid. A Specification is in preparation for the Abatement scope, to be included in the next bid addendum.
- **Item #3: Building Access Limitation and Phasing.** Per the attached annotated exhibits of 30"x42" drawings sheets A-003, A-021, A-201, A-211 and A-231, the School District needs to retain use of one area of the building through the end of March 2020. Maintain access for this District use as indicated, with work in the shown area to be performed following the end of March 2020, or in coordination with the District use of the area, as/if possible, prior to that date.

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- **Item #4**: **Construction Duration.** Construction is anticipated to begin June 10, 2019, with completion July 31, 2020, with the acknowledgement of phasing and coordination of access and possible additional "move-ins" to accomplish the requirements of Item #3 above. Therefore, the anticipated total duration is 418 calendar days.
- **Item #5**: **Minor adjustment at Civil Grading and Drainage Plan.** At Sheet C-301, minor corrections are made at the grading designations, for improved workability at curbs and fencing interface in the west parking lot, revised where clouded and designated "Delta 3" on the attached 30"x42" PDF of Sheet C-301.
- **Item #6**: **Air Compressor and Air Dryer.** Air Compressor, E-44, and Air Dryer, E-45, are Owner Furnished, Contractor Installed, as has been shown at A-231 of the Bid Documents. In response to a Bidder Question, Plumbing Exhibit ADD P1 issued in Addendum No 2, does not show an Oil-Water Separator as previously shown H/P-301 because the OFCI Refrigerated Air Dryer, E-45, provides water, oil and dirt separation. No separate oil-water separator is required.
- **Item #7**: **Masonry Units.** The drawings at West Exterior Elevation 4/A-301 and Interior Elevation 1C/A-605, show a section of new CMU to height indicated, per keyed note "04.20B". Specification Section 04 22 00, Concrete Unit Masonry, subsection 2.1.A.3.a states "Unit size to match existing." Wall Type "A", Sheet A-901 also designates the CMU as 3"x8"x16" SMOOTH FACE CMU TO 6'-0"". The Architect acknowledges that an exact match to the existing CMU installed in about 1950 is probably impossible. Use of a nominal 8 x 4 x 16 precision block will be an adequate match for the area of new CMU wainscot wall, with color match as close as possible to existing adjacent existing red from manufacturer's standard colors. Similarly, veneer masonry infill, key noted "04.22A" at other locations shall be the best match possible from manufacturer's readily available product lines.
- **Item #8:** Wainscot Panels. For clarification, the wainscot wall panels shown on the Interior Elevations, such as where referenced at Interior Elevation Sheets A-604, A-605 and A-606, with keyed note "09.87B", description "HARD PANEL WAINSCOT OVER TYPE 'X' 5/8"GYPSUM BOARD TO HEIGHT INDICATED" is to be the panels specified in Section 09 74 30, Laminate Wall Panel System, basis of design, PSI Panel System #302. For clarification, in response to Bidder's question, the hard paneling does not occur at 2C/A-603, where keynoted "09.29A" and patterned in the Classroom. The panels are to be anticipated to run vertically to the height indicated, installed per PART 3 of the specification. Panel width is not indicated, but subsection 3.3.E indicates attachment of vertical applications at 24" O.C. The manufacturer's 24" panel may therefore be appropriate, or if the 48" wide panel can also meet the requirements of this subsection and also subsection 2.2.E, this is acceptable to the Architect.
- **Item #9: Interior Paint Colors.** In response to a Bidder question, colors for interior walls and ceilings finishes to receive paint are not indicated on the drawings, and will be confirmed during construction, basic wall and ceiling colors to be a standard off-white or light gray, with frames

Santa Barbara Office 802 East Cota Street, Suite A Santa Barbara, CA 93103 805.963.1955 San Luis Obispo Office 560 Higuera Street, Suite C San Luis Obispo, CA 93401 805.476.0399 or other elements to be a painted an accent color to selected in the construction period. Colors of standard pricing may be assumed.

- **Item #10: Exterior Metal Siding.** There is not a specification in the Project Manual for the exterior metal siding, shown at the Exterior Elevations (and Interior Elevations from the backside where exposed), with keyed note 07.46B, also referencing attachment detail 25/A-901, which describes "existing" or "reinstalled" corrugated aluminum siding. Demolition Exterior Elevations at A-031 show areas of removal of existing corrugated aluminum siding, keyed note 00.51A, in extents far exceeding the area to be reinstalled at 4/A-301 or possible areas of rework or repair at edges of new or modified openings. The Contractor shall remove existing material in a manner to allow the salvage and re-use to the extent required to provide for reinstallation, with no anticipation of being required to purchase new corrugated aluminum exterior metal siding required within the base bid.
- **Item #11: Interior Aluminum Siding.** There is not a specification in the Project Manual for interior aluminum siding, shown at the Interior Elevations, with keyed note 07.40A for existing and with 07.40B for "new", at areas of infill of infilled existing openings. Demolition Floor Plan, A-021, shows walls being removed which have existing interior aluminum siding, Note also the work required to provide one-hour wall protection per A-201 will require the removal of interior finishes, including existing interior aluminum siding, particularly along grid lines "5" and "7", which is not shown to be reinstalled per Interior Elevations such as C/A-604 and 1A/A-605. The Contractor will have ample opportunity and shall salvage removed material to the extent required for infill or replacement areas, with no anticipation of being required to purchase new interior aluminum siding required within the base bid. Note also that at locations shown for infill, though the original opening is shown dashed for reference, the contractor shall install larger lengths to provide cover to the next joint or element, not just pieced within the opening.
- **Item #12:** Fiber Reinforced Plastic (FRP) Panels. Although the Specifications Project Manual includes Section 09 70 00 Fiber Reinforced Plastic Panels, this product is not included in the Drawings of the bid documents, and does not occur in the Interior Elevations, Finish Schedule or Details. There is no FRP in the project scope.

ATTACHMENTS:

NOTICE INVITING BIDS (2 page PDF) ASBESTOS AND LEAD SURVEY REPORT ACCESS AND PHASING EXHIBIT DRAWINGS, A-003, A-021, A-201, A-211 & A-231 CIVIL SHEET C-301

Alan Kroeker, Architect C-22474

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MADERA UNIFIED SCHOOL DISTRICT DOCUMENT 00020

NOTICE INVITING BIDS

NOTICE INVITING BIDS PURSUANT TO PUBLIC CONTRACT CODE 22000, ET SEQ. (THE UNIFORM PUBLIC CONSTRUCTION COST ACCOUNTING ACT)

Notice is hereby given that the Madera Unified School District ("MUSD") will receive sealed bids for **Bid No. 021919 - CTE Modernization Project at Madera High School**

A Mandatory Job-Walk was held on February 28, 2019 @ 10:00 a.m. at Madera High School (Meet at Madera High School's front office – 200 South L Street).

Bidders may obtain a copy of the Contract Documents/Plans/Specification from: Fresno Reprographics 7591 N. Ingram Ave.-Suite 103 Fresno, CA 93711 (559) 261-2347 Website: <u>www.fresnorepro.com</u> Online Planroom: www.fresnoplanroom.com

To the extent required by Public Contract Code Section 20103.7, the District shall also make the Contract Documents available for review at one or more plan rooms.

Pursuant to the provisions of Section 1770 et seq of the California Labor Code, each worker of the contractor and any of its subcontractors engaged in work on the Project shall be paid not less than the prevailing wage rate.

SB 854 established new public works contractor registration program requirements for all public works projects. Pursuant to Labor Code Section 1725.5; Starting March 1, 2015 no contractor/subcontractor may be listed in a bid proposal unless registered with the Department of Industrial Relations (DIR). Starting April 1, 2015 no contractor/subcontractor may be awarded a contract, nor employed on a Public Works project unless registered with the DIR. This project <u>is</u> subject to prevailing wage requirements and compliance monitoring and enforcement by the DIR and may at any time require contractors/subcontractors to upload electronic certified payroll records on the DIR website.

The Estimated Construction Cost of this project is \$3,767,000

<u>Pre-Qualification Packet were due by March 15, 2019</u> (a) 10:00am. A copy of the Pre-Qualification Packet maybe down loaded from Madera Unified School District Purchasing Department Website <u>https://www.madera.k12.ca.us/Page/6984</u>

Bidders shall be required to have a valid class "A or B" Contractor's License.

Sealed Bids must be received by <u>April 18, 2019 @ 11:00am</u> at MUSD Purchasing Department, 1205 Madera Avenue, Madera CA 93637. (located on the 2nd floor)

Bids shall be accompanied by a certified check, cashier's check , or bidders bond in an amount not less than ten (10%) percent of the total bids made payable to MUSD.

The substitution of appropriate securities in lieu of retention amounts from progress payments in accordance with public Contract Code Section 22300 is permitted.

Copies of the BID documents may be downloaded from Madera Unified School District Purchasing Department Website <u>https://www.madera.k12.ca.us/Page/6706</u>

Refer questions to <u>SKing@19sixArchitects.com</u> via email no later than <u>April 12, 2019 @</u> <u>10:00 am.</u> Only questions received via email will be responded to.

> Published February 19, 2019 February 26, 2019 March 4, 2019 (Addendum 1) March 28, 2019 (Addendum 2) April 12, 2019 (Addendum 3)



Asbestos and Lead Survey Report

CTE Building Modernization Madera High School 200 South L Street Madera, CA 93637

Prepared for:

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Prepared By:

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FACS Project #PJ41625

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Appendix A: Asbestos Sampling Summaries, Asbestos Bulk Sample Chain-of-Custody Forms and Laboratory Results Reports
Appendix B: XRF Lead Testing Data and CDPH Form 8552
Appendix C: Sample Location Drawings
Appendix D: Certifications of Personnel & Laboratories

List of Acronyms

ACCM	Asbestos Containing Construction Material
ACM	Asbestos Containing Material
AHERA	Asbestos Hazard Emergency Response Act
AIHA	American Industrial Hygiene Association
CAC	California - Certified Asbestos Consultant
Cal/OSHA	California Occupational Safety and Health Association
CCR	Code of California Regulations
CFR	Code of Federal Regulation
DOSH	Department of Occupational Safety and Health
ELAP	Environmental Laboratory Accreditation Program
EPA	Environmental Protection Agency (EPA)
FACS	Forensic Analytical Consulting Services, Inc.
FALI	Forensic Analytical Laboratories, Inc.
ND	None Detected
NESHAP	National Emissions Standard Hazardous Air Pollutants
NIOSH	National Institute for Occupational Safety and Health
NIST	National Institute of Science and Technology
NVLAP	National Voluntary Laboratory Accreditation Program
PLM	Polarized Light Microscopy
TEM	Transmission Electron Microscopy
TTLC	Total Threshold Limit Concentration

Executive Summary

Forensic Analytical Consulting Services, Inc. (FACS) was retained by the Madera Unified School District to perform an asbestos and lead paint survey of building materials in support of the CTE Building Modernization project at Madera High School, located at 200 South L Street in Madera, California. The survey was limited to suspect materials expected to be disturbed at permanent and portable structures, as depicted on the architectural drawings provided to FACS by PMSM Architects. A summary list of suspect asbestos-containing materials which were identified and sampled is included in Appendix A of this report. A table reporting lead-containing paints or coatings which were identified and tested is included in Appendix B of this report. The survey was performed on April 2 and 3, 2019.

Asbestos

The following suspect materials included in this survey were identified as asbestos-containing materials:

 Transite panels at walls in Room 6 (Spray Booth), walls and ceilings in Room 10 and Room 16 (Restrooms), and the west and north walls in Room 21 (Janitor)

Any suspect materials not included in this inspection must be assumed to be asbestos-containing materials until sampled and proven not to contain asbestos through laboratory analysis.

Lead

Lead-based paints or coatings have lead content at or above 1.00 mg/cm², 5,000 parts per million, or 0.5% by weight. The following paints, coatings or components were determined to be lead-based:

- Blue paint on metal handrails (8.20 mg/cm²)
- Blue paint on metal pipe support columns (4.80 mg/cm²)
- Cream, plastic wire molding (2.40 mg/cm²)
- Cream paint on metal support columns (1.90 mg/cm²)
- Grey paint on metal H-beam support (2.70 mg/cm²)
- Porcelain sinks, toilet and urinals at Restrooms (1.50 32.20 mg/cm²)
- White paint on metal I-beams (4.30 mg/cm²)
- Green and light green ceramic wall tile in Restrooms (7.70 8.60 mg/cm²)

Numerous XRF test readings from this inspection identified detectable concentrations of lead in a variety of other items. Bulk sample verification of XRF test readings with 0.00 mg/cm² results was not performed for most paints or coatings, as determining that these paints could be handled as lead-free would not change the status of this project as lead-related construction work. All paints and coatings in project areas should be considered lead-containing, except for the paints or coatings noted below which have been verified with bulk sampling.

Please refer to the data table in Appendix B for testing results for specific components. Any untested paints or coatings not included in this inspection, or paints or coatings with unconfirmed 0.00 mg/cm² XRF test readings must be assumed to contain lead unless proven not to contain lead via laboratory analysis of bulk samples.

FACS recommends that the results of this report be incorporated into any renovation plans provided for this project for informational purposes.

Introduction

Forensic Analytical Consulting Services, Inc. (FACS) was retained by the Madera Unified School District to perform an asbestos and lead paint survey of building materials in support of the CTE Building Modernization project at Madera High School, located at 200 South L Street in Madera, California. The survey was limited to suspect materials expected to be disturbed at permanent and portable structures, as depicted on the architectural drawings provided to FACS by PMSM Architects. A summary list of suspect asbestos-containing materials which were identified and sampled is included in Appendix A of this report. A table reporting lead-containing paints or coatings which were identified and tested is included in Appendix B of this report. The survey was performed on April 2 and 3, 2019.

Scope of Work

The purpose of this survey was to identify all asbestos-containing materials (ACMs) and lead-containing paints or coatings present in areas which will be impacted during the CTE Building Modernization project at Madera High School. The visual inspection, bulk sampling, XRF testing, and survey documentation were performed by Jeff Olsen and Eric Farnsworth. Mr. Olsen and Mr. Farnsworth are both AHERA-accredited asbestos Building Inspectors and Division of Occupational Safety and Health (DOSH) Certified Site Surveillance Technicians (CSST #01-2873, CSST #18-6399). Mr. Olsen is a California Department of Public Health (CDPH) Lead Sampling Technician (ST #20617); Mr. Farnsworth did not participate in the lead portion of the inspection other than as scribe for XRF testing data. Mr. Olsen and Mr. Farnsworth worked under the direction of Joseph Vuglia, who is a DOSH Certified Asbestos Consultant (CAC #13-5005) and CDPH Lead Inspector / Assessor (I/A 22314). The scope of the survey and the services provided by FACS included:

- Review of architectural drawings produced by PMSM Architects. to identify project areas and materials to be disturbed during the modernization project;
- Performing a visual inspection of the subject structure and areas to identify accessible suspect asbestos-containing materials (ACMs) which are present that may be disturbed during the renovation project;
- Collection of bulk samples for asbestos analysis by polarized light microscopy (PLM);
- Testing of paints and coatings in project areas using an XRF analyzer to determine lead content;
- Ensuring the technical quality of all work by using Asbestos Hazard Emergency Response Act (AHERA) accredited Inspectors;
- Ensuring the technical quality of all work by using CDPH Certified Lead Sampling Technicians and Inspector/Risk Assessors;
- Consolidating data and findings into a report format.

Site Characterization

Madera High School is a typical school site located in Madera, California. The survey at this site was limited to the CTE Building and included interior and exterior materials expected to be disturbed during the project, as depicted on the architectural drawings provided to FACS. Suspect asbestos-containing materials observed in project areas include the following:

• Vinyl floor tile and mastic

• Vinyl baseboards and mastic

- Drywall
- Plaster
- Brick and mortar
- Ceramic tile and grout

- Acoustic ceiling tile
- Transite panels
- Composition shingle roofing
- Window putty

Materials suspect for containing lead include all paints and coatings on building materials in project areas.

Survey Methods

Document Review

Drawings provided by PMSM Architects were reviewed prior to the inspection at this site. Room designations used in this report are as listed on these drawings, or as amended with designations used at the site to differentiate room names which are used more than once on the drawings (e.g. Classroom or Office).

Visual Inspection

Accessible building materials were visually inspected using the methods presented in the Federal AHERA regulations (40 CFR, Part 763). AHERA is required to be used for inspections of K-12 schools and is generally accepted as the industry standard for all ACM inspections regardless of structure or facility type. Suspect ACMs were also physically assessed for friability, condition and possible disturbance factors.

All specified areas in project areas were accessible during this inspection. Other materials found elsewhere at this site are not expected to be disturbed by the planned renovation project and were not included in this survey.

Asbestos Inspection

Bulk Sample Collection

Bulk samples of identified homogeneous materials were collected in building areas that may be impacted by the planned renovation activities. Samples were collected of each separate homogeneous area (material). A homogeneous area (material) is defined as a surfacing material, thermal system insulation, or miscellaneous material that is uniform in use, color and texture. Examples of homogeneous areas could include:

Vinyl floor tiles False ceiling panels Drywall with joint compound Vinyl sheet flooring

The specific number of samples collected was determined by using the methods required by the Federal AHERA regulations (40 CFR, Part 763.86) as noted below:

1) For Surfacing Material:

1,000 ft² or less - collect 3 samples 1,001 to 5,000 ft² - collect 5 samples 5,001 ft² or greater - collect 7 samples

2) For Thermal System Insulation:

6 linear feet of patching or less - collect 1 sample Cementitious pipe fittings - "In a manner sufficient to determine"

3) For all Miscellaneous Material:

Collect samples "In a manner sufficient to determine whether material is ACM (asbestoscontaining material) or not ACM..."

The suspect ACMs were sampled using a knife, chisel, scraper, drill or other similar coring device suitable to the type of material sampled to cut through its entire thickness and to ensure that a cross-section of the material was obtained. The material was then placed in an appropriately labeled container that was sealed and submitted to Forensic Analytical Laboratories, Inc. for analysis. A unique sample number (e.g. PJ41625-01A) was assigned to each sample.

Bulk samples will be retained by the laboratory for one month unless otherwise instructed. After this period, the samples will be disposed of appropriately.

Bulk Sample Analysis

A total of twenty-six bulk samples were collected during this survey. All bulk samples were analyzed by Forensic Analytical Laboratories, Inc. (FALI) in Hayward, California. FALI is accredited by the California Department of Public Health (CDPH) Environmental Laboratory Accreditation Program (ELAP) and the National Institute of Science and Technology's (NIST) National Voluntary Laboratory Accreditation Program (NVLAP). FALI participates in the National Institute for Occupational Safety and Health (NIOSH) Proficiency Analytical Testing Program and has substantial experience in the analysis of asbestos.

All samples were analyzed using Polarized Light Microscopy with Dispersion Staining (PLM/DS) techniques in accordance with the methodology approved by the U.S. Environmental Protection Agency (EPA). The percentage of asbestos present in the samples was determined on the basis of a visual area estimation. The EPA defines asbestos-containing materials (ACM) as any material containing more than one percent (1%) asbestos as determined using the method specified in Appendix A, Subpart F, 40 CFR Part 763, Section 1, Polarized Light Microscopy (PLM). 40 CFR Part 763 identifies the lower limit of reliable quantification for asbestos using the PLM method as approximately one percent (1%) by volume. Regulations in California (CAL/OSHA Title 8 CCR 1529) define asbestos-containing construction materials (ACCM) as those materials having asbestos content of greater than one tenth of one percent (> 0.1%). Therefore, for the purpose of this survey, any amount of asbestos detected will be considered positive. In addition to the percentages, the types of asbestos minerals are also reported. The PLM method is the standard method used to analyze asbestos bulk samples.

When "None Detected" (ND) appears in the laboratory results, it should be interpreted as meaning asbestos was not observed in the sample material.

Lead Inspection

The client-defined lead inspection was conducted in accordance with the CDPH Lead-Related Construction Program and modeled upon the sampling protocol described in "Chapter 7: Lead Based Paint Inspection" of the HUD Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing (1997 Revision.)

Cal/OSHA, in Title 8 California Code of Regulations (CCR) Section 1532.1, Lead in Construction Standard which implements California Labor Code 8716-6717, regulates all construction work were an employee may be occupationally exposed to lead. Paint or materials with any detectable level of lead is considered lead-containing by Cal/OSHA.

For purposes of this report, materials containing lead shall be defined as materials that XRF testing has determined contain a lead content at or above 0.01 mg/cm², or items with an XRF test reading of 0.00 mg/cm² which have not been verified via bulk sample analysis.

Construction work impacting materials with detectable levels of lead is subject to Cal/OSHA requirements. Construction activities, sometimes referred to as trigger tasks, impacting materials containing any amount of lead require an initial exposure assessment. Trigger tasks are defined in Cal/OSHA 1532.1, section (d) (2) and include but are not limited to such tasks as: manual demolition, manual scraping, manual sanding, lead burning, abrasive blasting, welding, cutting, and torch burning.

XRF Testing Methodology

Surfaces and components were surveyed for lead content utilizing a portable X-ray fluorescence (XRF) analyzer, Niton Model 300 XLp, serial number 26077. The XRF analyzer contains a radioactive cadmium source which bombards tested surfaces with X-rays and gamma rays. This external energy source excites any lead atoms within the tested paint or coating, causing their atoms to emit X-ray photons with a characteristic energy profile. The instrument analyzes the emitted energy to identify and quantify the amount of lead in the tested paint or coating, with lead content reported in milligrams per square centimeter.

Testing combinations of homogeneous components in one area are representative of similar components found in other areas. During this survey, the inspector visually identified the painted or coated component to test, an XRF reading was collected, and the reading was documented in the XRF data table contained in Appendix B. For each test reading, the data table identifies the room equivalent/space designation, the tested component name, the substrate material, the sample location, paint/coating color, condition assessment, and the XRF result expressed as lead content by weight in milligrams per square centimeter.

Findings and Recommendations

FACS' survey was limited building materials associated with the CTE Building Modernization project at Madera High School. The following results were found regarding asbestos-containing materials and lead-containing paints, coatings or components in project areas:

Asbestos

The following suspect materials included in this survey were identified as asbestos-containing materials:

 Transite panels at walls in Room 6 (Spray Booth), walls and ceilings in Room 10 and Room 16 (Restrooms), and the west and north walls in Room 21 (Janitor)

Any suspect materials not included in this inspection must be assumed to be asbestos-containing materials until tested and proven not to contain asbestos. If any concealed suspect materials are discovered or if any other suspect materials are present which were not included in this report, they must be presumed to be asbestos-containing materials until such time as they are tested and proven not to contain asbestos.

Renovations and demolitions impacting building materials included in this inspection are regulated by the EPA National Emission Standards for Hazardous Air Pollutants (NESHAP). In order to comply with NESHAP, this complete survey and a renovation permit release must be submitted to San Joaquin Valley Air Pollution Control District (SJVAPCD). An asbestos notification to SJVAPCD must also be submitted when more than 160 square or 260 linear feet of Regulated Asbestos-Containing Material (RACM) will be disturbed during a renovation; removal of the asbestos-containing transite panels will not meet this requirement as the material is classified under NEHSAP as Category I, non-friable rather than RACM.

Contractors performing asbestos abatement during this project must be CSLB licensed for the trade work to be performed along with asbestos certification, have a General Contractor license for work involving two or more trade classes along with asbestos certification, or have the C-22 license for asbestos abatement. Along with the CSLB license, the contractor must also have DOSH asbestos registration. Workers performing the removal must have AHERA-accredited worker certification, with at least one worker having the contractor/supervisor certification. Work disturbing the asbestos-containing materials must conform to the Cal/OSHA asbestos requirements (8 CCR 1529). The specifications for the removal must be written by a consultant with the AHERA-accredited Project Designer training.

Lead

Lead-based paints or coatings have lead content at or above 1.00 mg/cm², 5,000 parts per million, or 0.5% by weight. The following paints, coatings or components were determined to be lead-based:

- Blue paint on metal handrails (8.20 mg/cm²)
- Blue paint on metal pipe support columns (4.80 mg/cm²)
- Cream, plastic wire molding (2.40 mg/cm²)
- Cream paint on metal support columns (1.90 mg/cm²)
- Grey paint on metal H-beam support (2.70 mg/cm²)
- Porcelain sinks, toilet and urinals at Restrooms (1.50 32.20 mg/cm²)
- White paint on metal I-beams (4.30 mg/cm²)
- Green and light green ceramic wall tile in Restrooms (7.70 8.60 mg/cm²)

Please refer to the data table in Appendix B for testing results for specific components. Any results with values above 0.00 mg/cm² indicate detectable concentrations of lead are present. In addition, any untested paints or coatings not included in this inspection, or paints or coatings with unconfirmed 0.00 mg/cm² XRF test readings must be assumed to contain lead unless proven not to contain lead via laboratory analysis of bulk samples. Regardless of whether specific 0.00 mg/cm² XRF test results are confirmed, detectable concentrations of lead were identified during this survey and the project is lead-related construction work.

Numerous XRF test readings from this inspection identified detectable concentrations of lead in a variety of other items. Bulk sample verification of XRF test readings with 0.00 mg/cm² results was not performed for most paints or coatings, as determining that these paints could be handled as lead-free would not change the status of this project as lead-related construction work. All paints and coatings in project areas should be considered to be lead-containing.

Any contractor with workers disturbing any quantity of detectable lead must perform an initial determination regarding worker exposures to lead, which may be based on personal air monitoring at the start of the project, prior employee monitoring from the past 12 months under workplace conditions closely resembling the current project, or objective data demonstrating that exposures will not exceed the Cal/OSHA action level (30 micrograms per cubic meter of air). It is the employer's responsibility to conduct the initial determination and comply with any relevant Cal/OSHA requirements.

Workers disturbing lead must have lead awareness or action level training depending on the initial exposure determination and must use lead-safe work practices. Disturbance of lead-containing paints or coatings must be performed within a contained area to prevent the spread and build-up of lead dust in order to comply with CDPH requirements. HEPA vacuums, dustless tools or shrouds, and/or intact removal of components should be employed to minimize lead dust generation and work areas must be properly cleaned following disturbance to lead-containing materials during this project. Waste generated during disturbance to lead-containing materials must be profiled in a hazardous waste determination to ascertain proper disposal requirements.

If the initial determination or initial exposure monitoring shows that workers impacting lead can be expected to be or are actually exposed to lead above the Cal/OSHA permissible exposure level (50 micrograms per cubic meter of air) workers and supervisors must have the requisite training and CDPH lead-related construction certification.

EPA Renovation, Repair and Painting Rule

The EPA's Renovation, Repair, and Painting (RRP) rule applies to disturbance of lead-based paints at child-occupied facilities constructed before 1978. In the context of the RRP rule, child-occupied facility is defined as being visited by the same child under the age of 6 on two or more days per week for at least 3 hours per visit with a cumulative annual total of 60 hours. In California schools, children may be enrolled in Kindergarten if they are age 5 or older on or before September 1, and they may attend pre-Kindergarten summer programs or Transitional Kindergarten programs before being age-eligible for kindergarten.

The site where the CTE Building is located is a high school, which would not normally be considered a "child-occupied facility" due to the age of high school students. While there are exceptions, such as high schools with child-care facilities on site, it is not expected that any children under age 6 would spend any significant amount of time in the CTE Building which houses vocational courses only. The RRP rule does not apply to this project.

Limitations

This investigation is limited to the conditions and practices observed and information made available to FACS. The methods, conclusions and recommendations provided are based on FACS' judgment, expertise and the standard of practice for professional service. They are subject to the limitations and variability inherent in the methodology employed. As with all environmental investigations, this investigation is limited to the defined scope and does not purport to set forth all hazards, nor indicate that other hazards do not exist.

Please do not hesitate to contact our office at 559-436-0277 with any questions or concerns. Thank you for the opportunity to assist Madera Unified School District with promoting worker, staff and student safety and a healthy environment.

Respectfully, FORENSIC ANALYTICAL

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Joseph M. Vuglia Project Manager, Fresno Cal/OSHA CAC #13-5005 CDPH I/RA, M #22314 Reviewed by: FORENSIC ANALYTICAL

Chris Chipponeri Director, Ô^} dæ⁄xæ/^ˆÁJ~æ^• Cal/OSHA CAC #10-4633 CDPH I/RA #20476

Appendix A Asbestos Sampling Summaries, Asbestos Bulk Sample Chain of Custody Forms and Laboratory Results Reports

	Asbestos Survey Summary (Lab Report # B275511) Westside ES – 659 K St., Los Banos, California Survey Date: April 3, 2019										
Sample Numbers	Material Description	Location(s) of Material	Material Number	Asbestos Content (percent)	Asbestos NESHAP Category	Approx. Quantity					
01A, 01B	12" Vinyl floor tile (white/black) & mastic	Room 1, Room 3, Room 8, Room 9, Room 10 (Restroom), Room 11, Room 13, Room 14, Room 15, Room 16 (Restroom), Room 17, Room 27, Room 28	1	None detected in tile None detected in black/yellow mastic	N/A	N/A					
02A, 02B	4" Vinyl baseboard (blue) & mastic	Room 1, Room 3, Room 8, Room 9, Room 10 (Restroom), Room 11, Room 13, Room 15, Room 16 (Restroom), Room 17, Room 27, Room 28	2	None detected in baseboard None detected in mastic None detected in paint	N/A	N/A					
03A, 03B	12" Acoustic ceiling tile (uniform hole)	Room 1, Room 11, Room 13, Room 14, Room 33, Room 34	3	None detected in ceiling tile None detected in paint	N/A	N/A					
04A	12" Acoustic ceiling tile (random fissure)	Room 1,	4	None detected in ceiling tile None detected in paint	N/A	N/A					
05A	4" Vinyl baseboard (black) & mastic	Room 2, Room 4,	5	None detected in baseboard None detected in mastic	N/A	N/A					
06A, 06B	Brick & mortar	Room 2, Room 4, Room 5, Room 6, Room 7 (Restroom 2), Room 12, Room 24, Room 25, Room 32, Room 33	6	None detected in brick None detected in mortar None detected in paint	N/A	N/A					
07A	12" Vinyl floor tile (black/white) & mastic	Room 2,	7	None detected in tile None detected in mastic	N/A	N/A					
08A	12" Vinyl floor tile (white/black) & mastic	Room 2, Room 4,	8	None detected in tile None detected in mastic	N/A	N/A					
09A	1" Ceramic tile (green) & grout	Restroom 1,	9	None detected in tile None detected in grout	N/A	N/A					
10A, 10B	Drywall (smooth/no texture)	Restroom 1, Room 26 (Restroom)	10	None detected in drywall None detected in joint compound None detected in tape None detected in joint compound None detected in paint	N/A	N/A					
11A	4" Ceramic tile (green) & grout	Restroom 1,	11	None detected in tile None detected in grout	N/A	N/A					

MUSD Madera HS – CTE Building Modernization Asbestos and Lead Survey Report

Asbestos Survey Summary (Lab Report # B275511) Westside ES – 659 K St., Los Banos, California Survey Date: April 3, 2019											
Sample Numbers	Material Description	Location(s) of Material	Material Number	Asbestos Content (percent)	Asbestos NESHAP Category	Approx. Quantity					
12A, 12B	Drywall (no texture)	Room 2, Room 4,	12	None detected in drywall None detected in joint compound None detected in paint	N/A	N/A					
13A, 13B	Transite	Room 6 (Spray Booth) at walls, Room 10 (Restroom) at walls, ceiling, Room 16 (Restroom) at walls, ceiling, Room 21 (Janitor) at west, north sides	13	10% Chrysotile in transite None detected in paint	Category I, non-friable	1125 ft ²					
14A	Drywall (unfinished)	Room 6,	14	None detected in drywall None detected in paint	N/A	N/A					
15A	Plaster	Room 5, Room 21, Room 22 (Restroom), Room 23 (Restroom)	15	None detected in drywall None detected in plaster None detected in paint	N/A	N/A					
16A	12" Acoustic ceiling tile (random hole) on drywall	Room 3, Room 9, Room 15, Room 17, Room 27	16	None detected in drywall None detected in ceiling panel None detected in paint	N/A	N/A					
17A	Window putty	Exterior at windows	17	None detected in putty	N/A	N/A					
18A	Duct tape	Room 1, Metals Storage Room	18	None detected in tape	N/A	N/A					
19A	Composition roof shingles	Exterior at roof	19	None detected in stones None detected in tar layers None detected in felt layers	N/A	N/A					

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SAMPLING DATA FORM & CHAIN OF CUSTODY

CLIEN [®] Madera	T: FR09 FACS Fresno a Unified School District	Sampled by	Jeff Ol	lsen and E	ric Farnsworth		Sample Date: 4/2/19					
Site/Bl	dg.: MADERA UNIFIED SCHOOL DISTRICT	Turnaround	Time:	(48 hr							
200 S L Madera	Street CA 93637	Analysis: X PLM Standard										
FACS P	roj. No.: PJ41625	Special Instructions E-mail results to E-mail results to jvuglia@forensicanalytical.com jolsen@forensicanalytical.com efarnsworth@forensicanalytical.com and dpyle@forensicanalytical.com										
HA#	Homogeneous Material Description (incl. color, texture, phase of construction)	Quant. in SF (LF for small pipe only)	Friable/ Cat. I/ Cat. II	Condition (good, fair, poor)	Sample Number	Sample Location	L	ab Result				
01	12" VFT (White with Black Streaks) and Glue				PJ41625-01A	Room 1: West Side South End at Entra	nce					
01	12" VFT (White with Black Streaks) and Glue	1			PJ41625-01B	Room 13: East Side Center at Damage						
02	4" Vinyl Baseboard (Blue) and Glue				PJ41625-02A	Room 1: West Side South End						
02	4" Vinyl Baseboard (Blue) and Glue				PJ41625-02B	Room 13: Northeast Corner						
03	1x1 ACT (Uniform Hole Pattern)				PJ41625-03A	Room 11: North Side West End						
03	1x1 ACT (Uniform Hole Pattern)			10	PJ41625-03B	Room 13: West Side Center						
04	1x1 ACT (Random Fissure Pattern)				PJ41625-04A	Room 1: West Side Center						
05	4" Vinyl Baseboard (Black) and Glue				PJ41625-05A	Room 2: Southwest Corner						
06	Brick and Mortar				PJ41625-06A	Room 2: North Side Center						
DW = Dr Tile AG	ywall JC = Joint Compound WT = Wall Text CS = Sprayed-on Acoustical Ceiling Material FP	ture VFT = Vin = Fireproofing	yl Floor T PI = Pipe	Tile VSF =	Vinyl Sheet Flooring PFI = Pipe fitting ins	BB = Baseboard BBM = Baseboard Mastic CM ulation WP = Plaster CP = Ceiling Plaster FS	M = Carpet Mastic ACT = Acous	tic Ceiling				
Relinq Date &	Time Cuto	15.00	> 1	1/2/19	Relinquisl Date & Ti	me:	Relinquished by: Date & Time:					
Receiv Date &	ed by: Time				Received I Date & Ti	Received by: Date & Time APR 0 3 2019 Bate & Time:						

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SAMPLING DATA FORM & CHAIN OF CUSTODY

CLIEN Madera	F: FR09 FACS Fresno Unified School District	Sampled by:	Jeff Ol	sen and E		Sample Date: 4/2/19						
Site/Bl	dg.: MADERA UNIFIED SCHOOL DISTRICT	Turnaround	Turnaround Time: (48 hr)									
200 S L Madera	CA 93637	eet Analysis: X PLM Standard										
FACS P	roj. No.: PJ41625	Special Instructions E-mail results to E-mail results to jvuglia@forensicanalytical.com jolsen@forensicanalytical.com efarnsworth@forensicanalytical.com and dpyle@forensicanalytical.com										
HA#	Homogeneous Material Description (incl. color, texture, phase of construction)	Quant. in SF (LF for small pipe only)	Friable/ Cat. I/ Cat. II	Condition (good, fair, poor)	Sample Number	Sample Location	n	Lab Result (when rcvd)				
06	Brick and Mortar				PJ41625-06B	Room 5: North Side North of Center						
07	12" VFT (Black with White Specks) and Glue				PJ41625-07A	Room 2: Southwest Corner: East Wall	North Side					
08	12" VFT (White with Black Specks) and Glue				PJ41625-08A	Room 2: West Side Center at Restroon						
09	1x1 Ceramic Tile (Green) and Grout				PJ41625-09A	Restroom 1 at Room 2: Center of Floor						
10	Drywall (Smooth) without Tape and Joint Compound				PJ41625-10A	Restroom 1 at Room 2: South Side Eas	st of Center					
10	Drywall (Smooth) with Tape and Joint Compound				PJ41625-10B	Restroom 1 at Room 2: Southeast Corr	ner					
11	4" CT (Dark Green) and Grout				PJ41625-11A	Restroom 1 at Room 2: West Side Sou	th of Center					
12	Drywall without Tape and Joint Compound				PJ41625-12A	Room 2: South side Center						
12	Drywall with Tape and Joint Compound				PJ41625-12B	Room 2: South Side Center						
DW = Dr Tile AC	wall JC = Joint Compound WT = Wall Text S = Sprayed-on Acoustical Ceiling Material FP	ure VFT = Vin = Fireproofing	yl Floor T PI = Pip	File VSF =	Vinyl Sheet Flooring PFI = Pipe fitting ins	BB = Baseboard BBM = Baseboard Mastie C sulation WP = Plaster CP = Ceiling Plaster F	M = Carpet Mastic ACT = A	coustic Ceiling				
Relinq Date &	uished by: Mul	15:	œ	4/2/19	Relinquis Date & Ti	hed by: me:	Relinquished by: Date & Time:					
Receive Date &	ed by: Time				Received Date & Ti	by: APR 0 3 2019	Relinquished by: Date & Time:					
						Mo ZI IL OL SO						

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SAMPLING DATA FORM & CHAIN OF CUSTODY

Page $3_{of}3$

Madera	I : FR09 FACS Fresno a Unified School District	Sampled by	: Jeff O	lsen and E	ric Farnsworth		Sample Date: 4/2/19					
Site/Bl Madera	dg.: MADERA UNIFIED SCHOOL DISTRICT High School	Turnaround	Time:									
200 S L Street Analysis: X PLM Standard												
FACS P	roj. No.: PJ41625	Special Instructions E-mail results to E-mail results to jvuglia@forensicanalytical.com jolsen@forensicanalytical.com efarnsworth@forensicanalytical.com and dpyle@forensicanalytical.com										
HA#	Homogeneous Material Description (incl. color, texture, phase of construction)	Quant. in SF (LF for small pipe only)	Friable/ Cat. I/ Cat. II	Condition (good, fair, poor)	Sample Number	Sample Location	Lab Result (when rcvd)					
13	Transite				PJ41625-13A	Room 6: South Side Center at Edge of	Door					
13	Transite				PJ41625-13B	Room 21 (Janitor): Southwest Corner						
14	Drywall				PJ41625-14A	Room 6: Southwest Corner at Entry						
15	Plaster				PJ41625-15A	Room 5A: At Toilet Room 23 Entrance						
16	1x1 ACT (Random Holes)				PJ41625-16A	Room 17: East Side Center						
17	Window Putty (White)				PJ41625-17A	Metal Shop Storage Mezzanine: North	Side Center					
18	Duct Tape				PJ41625-18A	Metal Shop Storage Mezzanine: North	Side Center					
19	Composition Roof Shingle				PJ41625-19A	North of Metal Shop Storage Mezzanin	e Center Window					
)W = Dry lile AC Relinqu Date &	wall JC = Joint Compound WT = Wall Texto S = Sprayed-on Acoustical Ceiling Material FP = ished by: Time	re VFT = Viny = Fireproofing 	1 Floor T PI = Pipe	ile VSF = V Insulation 4/2/19	/inyl Sheet Flooring PFI = Pipe fitting insu Relinquish Date & Ti	BB = Baseboard BBM = Baseboard Mastic CM Ilation WP = Plaster CP = Ceiling Plaster ES	I = Carpet Mastic ACT = Acoustic Ceiling = Exterior Stucco Relinquished by:					
Receive Date &	d by: Time			1 1 1	Received b Date & Tin	y: ne APR 0 8 2019	Date & Time: Relinquished by: Date & Time:					



Bulk Asbestos Analysis

(EPA Method 40CFR, Part 763, Appendix E to Subpart E and EPA 600/R-93-116, Visual Area Estimation)

NVLAP Lab Code: 101459-0

FACS - Fresno Joseph Vuglia 21228 Cabot Blvd. Hayward, CA 94545					Client ID: Report Numbe Date Received Date Analyzed Date Printed: First Reported	FR09 Er: B27536 : 04/03/19 : 04/05/19 04/05/19 : 04/05/19	6 9 9 9
Job ID/Site: PJ41625; MADERA UNIFI L Street Madera CA 93637	ED SCHOO	L DISTRICT Ma	idera HIgh Sch	1001 200 S	FALI Job ID: Total Samples	FR09 Submitted:	26
Date(s) Collected: 04/02/2019					Total Samples	Analyzed:	26
Sample ID	Lab Numbe	Asbestos er Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
PJ41625-01A Layer: White Tile Layer: Black Mastic	12147888		ND ND				
Total Composite Values of Fibrous Com Cellulose (Trace)	ponents:	Asbestos (ND)					
PJ41625-01B Layer: White Tile Layer: Black/Yellow Mastic	12147889		ND ND				
Total Composite Values of Fibrous Com Cellulose (Trace)	ponents:	Asbestos (ND)					
PJ41625-02A Layer: Blue Non-Fibrous Material Layer: Off-White Mastic Layer: Paint	12147890		ND ND ND				
Total Composite Values of Fibrous Com Cellulose (Trace)	ponents:	Asbestos (ND)					
PJ41625-02B Layer: Blue Non-Fibrous Material Layer: Off-White Mastic	12147891		ND ND				
Total Composite Values of Fibrous Com Cellulose (Trace)	ponents:	Asbestos (ND)					
PJ41625-03A Layer: Tan Fibrous Material Layer: Paint	12147892		ND ND				
Total Composite Values of Fibrous Com Cellulose (95 %)	ponents:	Asbestos (ND)					
PJ41625-03B Layer: Beige Fibrous Material Layer: Paint	12147893		ND ND				
Total Composite Values of Fibrous ComCellulose (35 %)Fibrous Glass (45	ponents: %)	Asbestos (ND)					

Client Name: EACS Fragma					Report Numb	er: B2753	56 0
Chent Name: FACS - Flesho		A 1 /	D (1	A 1 /	Date Finiteu:	04/03/1	.9
Sample ID	Lab Numbe	Asbestos er Type	Percent in Layer	Asbestos Type	Layer	Asbestos Type	Layer
PJ41625-04A Layer: Tan Fibrous Material Layer: Paint	12147894		ND ND				
Total Composite Values of Fibrous Con Cellulose (95 %)	nponents:	Asbestos (ND)					
PJ41625-05A Layer: Black Non-Fibrous Material Layer: White Mastic	12147895		ND ND				
Total Composite Values of Fibrous Con Cellulose (Trace)	ponents:	Asbestos (ND)					
PJ41625-06A Layer: Red Cementitious Material Layer: Grey Grout Layer: Paint	12147896		ND ND ND				
Total Composite Values of Fibrous Con Cellulose (Trace)	ponents:	Asbestos (ND)					
PJ41625-06B Layer: Red Cementitious Material Layer: Grey Grout	12147897		ND ND				
Total Composite Values of Fibrous Con Cellulose (Trace)	ponents:	Asbestos (ND)					
PJ41625-07A Layer: Black Tile Layer: Yellow Mastic	12147898		ND ND				
Total Composite Values of Fibrous Con Cellulose (Trace)	nponents:	Asbestos (ND)					
PJ41625-08A Layer: White Tile Layer: Yellow Mastic	12147899		ND ND				
Total Composite Values of Fibrous Con Cellulose (Trace)	ponents:	Asbestos (ND)					
PJ41625-09A Layer: Green Ceramic Tile Layer: Grey Grout	12147900		ND ND				
Total Composite Values of Fibrous Con Cellulose (Trace)	nponents:	Asbestos (ND)					
PJ41625-10A Layer: White Drywall Layer: Paint	12147901		ND ND				
Total Composite Values of Fibrous ConCellulose (20 %)Fibrous Glass (10	nponents: %)	Asbestos (ND)					

Client Name: FACS - Fresno					Report Numb	oer: B27536	56 9
Circuit Name. TACS - Tresho		Asbestos	Percent in	Asbestos	Percent in	Asbestos	Percent in
Sample ID	Lab Numbe	r Type	Layer	Туре	Layer	Туре	Layer
PJ41625-10B	12147902						
Layer: White Drywall			ND				
Layer: White Joint Compound			ND ND				
Layer: White Joint Compound			ND ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Con	ponents:	Asbestos (ND)					
Cellulose (20%) Fibrous Glass (10	%)						
PJ41625-11A	12147903						
Layer: Green Ceramic Tile			ND				
Layer: White Grout			ND				
Total Composite Values of Fibrous Con Cellulose (Trace)	ponents:	Asbestos (ND)					
PJ41625-12A	12147904						
Layer: White Drywall			ND				
Layer: White Joint Compound			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous ConCellulose (20 %)Fibrous Glass (10	nponents: %)	Asbestos (ND)					
PJ41625-12B	12147905						
Layer: White Drywall			ND				
Layer: White Joint Compound			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Con Cellulose (20 %) Fibrous Glass (10	nponents: %)	Asbestos (ND)					
PJ41625-13A	12147906						
Layer: Grey Semi-Fibrous Cementitious	12117200	Chrysotile	10 %				
Layer: Paint		•	ND				
Total Composite Values of Fibrous Con Cellulose (Trace)	ponents:	Asbestos (10%)					
PJ41625-13B	12147907						
Layer: Grey Semi-Fibrous Cementitious	5	Chrysotile	10 %				
Layer: Paint			ND				
Total Composite Values of Fibrous Con Cellulose (Trace)	ponents:	Asbestos (10%)					
PJ41625-14A	12147908						
Layer: White Drywall			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous ConCellulose (20 %)Fibrous Glass (10	nponents: %)	Asbestos (ND)					

					Report Numb	er: B27536	56
Client Name: FACS - Fresno					Date Printed:	04/05/1	.9
Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
PJ41625-15A Layer: White Drywall Layer: White Plaster Layer: Paint	12147909		ND ND ND				
Total Composite Values of Fibrous ConCellulose (20 %)Fibrous Glass (10	nponents: A %)	Asbestos (ND)					
PJ41625-16A Layer: White Drywall Layer: Beige Fibrous Material Layer: Paint	12147910		ND ND ND				
Total Composite Values of Fibrous ConCellulose (35 %)Fibrous Glass (45	nponents: A %)	Asbestos (ND)					
PJ41625-17A Layer: White Putty	12147911		ND				
Total Composite Values of Fibrous Con Cellulose (Trace)	ponents:	Asbestos (ND)					
PJ41625-18A Layer: White Tape	12147912		ND				
Total Composite Values of Fibrous Con Cellulose (10 %)	ponents: A	Asbestos (ND)					
PJ41625-19A Layer: Stones Layer: Black Tar Layer: Black Felt Layer: Black Tar Layer: Black Felt Layer: Black Felt Layer: Black Felt Layer: Black Felt Layer: Black Felt Layer: Black Felt Layer: Black Tar Layer: Black Felt Layer: Black Felt Layer: Black Felt Layer: Black Felt Layer: Black Felt	12147913		ND ND ND ND ND ND ND ND ND ND ND ND ND N				
Total Composite Values of Fibrous ConCellulose (Trace)Fibrous Glass (10)	nponents: A	Asbestos (ND)					

					Report Num	ber: B2753	66
Client Name: FACS - Fresno					Date Printed	: 04/05/	19
		Asbestos	Percent in	Asbestos	Percent in	Asbestos	Percent in
Sample ID	Lab Number	Туре	Layer	Туре	Layer	Туре	Layer

Lad Shower

Tad Thrower, Laboratory Supervisor, Hayward Laboratory

Note: Limit of Quantification ('LOQ') = 1%. 'Trace' denotes the presence of asbestos below the LOQ. 'ND' = 'None Detected'. Analytical results and reports are generated by Forensic Analytical Laboratories Inc. (FALI) at the request of and for the exclusive use of the person or entity (client) named on such report. Results, reports or copies of same will not be released by FALI to any third party without prior written request from client. This report applies only to the sample(s) tested. Supporting laboratory documentation is available upon request. This report must not be reproduced except in full, unless approved by FALI. The client is solely responsible for the use and interpretation of test results and reports requested from FALI. Forensic Analytical Laboratories Inc. is not able to assess the degree of hazard resulting from materials analyzed. FALI reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified. All samples were received in acceptable condition unless otherwise noted.

Appendix B XRF Lead Testing Data and CDPH Form 8552



Madera Unified School District

Madera High School CTE Building

Lead Based Paint Survey By XRF

April 2, 2019

SURVEY BY

Forensic Analytical Consulting Services 371 E BULLARD AVE., SUITE 109 FRESNO, CA 93710 (559) 436-0277



Madera Unified School District

Madera High School

CTE Building

Lead Based Paint Survey By XRF

REVIEWED BY

Joseph Vuglia

CDPH CERTIFIED LEAD INSPECTOR/ASSESSOR CERT. #IA-22314 EXPIRATION 8-10-19



LEAD-BASED PAINT (LBP) INSPECTION AND SAMPLE PROTOCOL

The lead-based paint survey at this site was conducted using the following inspection and sampling protocol:

DEFINITION OF LEAD-BASED PAINT

EPA/HUD/DHS: Paint which contains at least 1.0 mg/cm², 5000 parts per million, or 0.5% by weight of lead.

OSHA/Cal/OSHA: Lead containing paint which contains any detectable lead.

Cal/OSHA requires notification if over 100 sq. ft. of lead-based paint (1.0 mg/cm² or higher) or presumed LBP (untested paint) is disturbed.

CONSTRUCTION YEARS

The building construction year was unknown to the inspector.

The condition of the paint was classified as follows:

INTACT: Paint is in good condition, with no chips, abrasions or delamination.

FAIR: Paint is reasonably intact, with minor chips and slight abrasions.

POOR: Paint is chipped, scraped, delaminated, or peeling.

EQUIPMENT AND CALIBRATION

Lead-based paint determination was performed using a Niton X-Ray Fluorescence (XRF) detector. Verification of calibration was performed prior to, and immediately following testing.

DISCLAIMER

Forensic Analytical Consulting Services (FACS) has made every effort to sample every non-intact paint type and substrate within the structures at this site. If a painted surface that will be disturbed is not intact, and the paint is not listed in this report, the paint must be assumed to contain lead.



Site Name: Madera High School												Date:		April 2, 2019		
Addres	s:	200 South	L Street, Madera	a, CA				HMS Job #:						PJ41625		
Start Ti	me:	11:00	Calibration:	1.04 =	0.9	1.04	=	0.9	1.04 =	1.0		Technic	ian:	Jeff Olsen		
End Tin	End Time: 12:30 Calibration: 1.04 = 0.9 1.04								1.04 =	0.9		Inspect	or/Assessor:	Joseph Vuglia		
Niton XLP 300 22263 See Lead-Based Paint Inspections, Sa on Page 1								ling Pro	otocol, &	Definit	tion	of Lead	-Based Paint	Condition Codes: I = Intact, F = Fair, P = Poor		
No. Sample Location							Component Subs					trate	Color	Condition	XRF Result (mg/cm2)	
1.	1. CTE BUILDING															
2.	Exterio															
3.	3. North Side West of Center									Metal			Blue	I	0.05	
4.	North S	ide West of (Center				Door Trim Wood						Blue		0.50	
5.	5. North Side West of Center							drail		Metal			Blue	F	8.20	
6.	North S	ide West of (Center				Pipe	Support	Column	Metal			Blue	I	4.80	
7.	At Rest	room North S	Side Center				Door	r		Metal			Blue	I	0.00	
8.	At Rest	room North S	Side Center				Door	r Frame	1	Metal			Blue	I	0.00	
9.	At East	Entry to Ro	oom 2													
10.	East Sid	de North End	1				Door	r		Metal			Blue		0.00	
11.	East Sid	de North End	l				Door	r Trim		Wood			Blue	I	0.40	
12.	East Sid	de North End	l				Rollu	up Door		Metal			Gray	F	0.00	
13.	East Sid	de North End	ł				Rollu	up Door	Trim	Wood			Blue	I	0.16	
14.	East Sid	de Center at		Dust	t Collect	or	Metal			Cream	I	0.00				
15.	15. East Side Center at Wood shop Entry									Metal			Cream		0.00	
16. West Side North End							Safe	ty Paint		Concr	ete		Yellow		0.50	
17.	Room 1	Interior														
18.	North S	ide Center		Door	r		Metal			Blue		0.03				



Site Name: Madera High School											Date:		April 2, 2019		
Addres	s:	200 South I	L Street, Madera	a, CA							HMS	Job #:	PJ41625	PJ41625	
Start Ti	1.04 =	0.9	1.04	. = (0.9	1.04 =	1.0	Tech	nician:	Jeff Olsen					
End Time: 12:30 Calibration: 1.04 = 0.9 1.04								1.0	1.04 =	0.9	Inspe	ctor/Assessor:	Joseph Vuglia	Joseph Vuglia	
Niton XLP 300 22263 See Lead-Based Paint Inspections, Sa on Page 1							ampli	ing Pro	otocol, &	Definitio	on of Le	ad-Based Paint	Condition Codes: I = Intact, F = Fair, P = Poor		
No.	No. Sample Location								nent	Sub	ostrate	Color	Condition	XRF Result (mg/cm2)	
19.	Room 1	Interior (Co	ontinued)												
20.	North Si	de Center					Door	r Frame	1	Metal		Blue	I	0.16	
21.	North Si	de Center					Wall			Wood		Cream	I	0.15	
22.	22. South Side Center							eboard		Metal		White	I	0.00	
23.	3. Southeast Corner							r		Wood		Gray	I	0.00	
24.	Southea	ist Corner					Door	r Frame	1	Wood		Gray	I	0.19	
25.	Room 2	Interior													
26.	West Si	de Center					Wall			Metal		Cream	I	0.00	
27.	North Si	de Center					Wind	dow		Metal		Cream	I	0.01	
28.	North Si	de Center					Wind	dow Fra	me	Metal		Cream	I	0.04	
29.	North Si	de Center at	Bottom of Wind	ow			Wire	Moldin	g	Plastic		Cream	I	2.40	
30.	North Si	de Center					Supp	oort Col	umn	Metal		Cream	I	1.90	
31.	North Si	de Center		Wall			Brick		Cream	I	0.00				
32.	Room 3 Interior														
33.	33. South Side Center									Wood		Cream	I	0.16	
34.	34. East Side South End							r		Wood		Gray	I	0.17	
35.	Eats Sic	le South end					Door	r Frame		Wood		Green	I	0.14	
36.	East Sic	le Center					Wind	dow Fra	me	Wood		Green	I	0.12	



Site Name: Madera High School												Date:		April 2, 2019		
Addres	s:	200 South	L Street, Madera	a, CA								HMS Jo	b #:	PJ41625		
Start Ti	Start Time: 11:00 Calibration: 1.04 = 0.9 1.04 =							0.9	1.04 =	1.0		Technic	ian:	Jeff Olsen		
End Time: 12:30 Calibration: 1.04 = 0.9 1.04								1.0	1.04 =	0.9)	Inspect	or/Assessor:	Joseph Vuglia		
Niton XLP 300 22263 See Lead-Based Paint Inspections, Second Page 1								pling Pro	otocol, &	Defin	itior	n of Lead	-Based Paint	Condition Codes: I = Intact, F = Fair, P = Poor		
No.	No. Sample Location								nent	s	Subs	strate	Color	Condition	XRF Result (mg/cm2)	
37.	Room 5	5 Interior														
38.	Northea	ist End					Do	or		Meta	al		Blue	I	0.00	
39.	39. Northeast End								;	Meta	al		Gray	I	0.00	
40.	40. Northeast End									Woo	d		Gray	I	0.00	
41.	1. Northeast End							Beam Su	pport	Meta	1etal Gray			I	2.70	
42.	West sid	de Center					Wh	niteboard		Metal			White	I	0.00	
43.	South S	ide Center					Ro	llup Door	Frame	Metal			Gray	I	0.01	
44.	South S	ide Center					Ro	llup Door	-	Metal			Brown	I	0.00	
45.	Room 5	5 Northwest	Restroom													
46.	South S	ide Center					Wa	all		Transite			Gray	I	0.01	
47.	Center						Pa	rtition		Metal			Gray	I	0.00	
48.	South S	ide East End	b				Sin	ık		Porc	elair	า	White	I	32.20	
49.	Northwe	est Corner					Тоі	ilet		Porc	elair	า	White	I	8.10	
50.	50. Room 23 (Restroom)															
51.	51. North Side Center							all		Cera	mic	tile	White	I	0.02	
52.	52. North Side Center							per Wall		Plaster			White	I	0.00	
53.	North S	ide					Sink Por					1	White	1	0.00	
54.	South S	side	Тоі	ilet		Porcelain White				I	0.00					



Site Name: Madera High School												Date:		April 2, 2019	
Addres	s:	200 South	L Street, Madera	a, CA								HMS Jo	ob #:	PJ41625	
Start Ti	me:	11:00	Calibration:	1.04 =	0.9	1.04	1 =	0.9	1.04 =	1.0	0	Technie	cian:	Jeff Olsen	
End Time: 12:30 Calibration: 1.04 = 0.9 1.04							1 =	1.0	1.04 =	0.9	9	Inspect	or/Assessor:	Joseph Vuglia	
Niton XLP 300 22263 See Lead-Based Paint Inspections, S on Page 1							Sam	pling Pro	otocol, &	Defi	nitio	n of Leac	-Based Paint	Condition Codes: I = Intact, F = Fair, P = Poor	
No.	No. Sample Location							Component Subs					Color	Condition	XRF Result (mg/cm2)
55.	Room 2	23 (Continue	ed)												
56.	East Sid	de North End	I				l Beam Metal						White	I	4.90
57.	Room 1	4													
58.	West Si	de Center					Wall Wood						Cream	I	0.17
59.	9. West Side Center							ndow Fra	ame	Wood			Cream	I	0.18
60.	North S	ide Center					Ch	alkboard		Metal			Black	I	0.00
61.	Room 2	24													
62.	West Si	de Center					Rollup Door Frame Me						Blue	I	0.00
63.	West Si	de Center					H Beam				al		White	I	5.60
64.	West Si	de Center					Wall Bric						unpainted	I	0.00
65.	Electro	nics Room	RR												
66.	North S	ide Center					Flo	or		Cera	amic	tile	Green	I	0.02
67.	North S	ide Center					Wa	all		Cera	amic	tile	Light Green	I	8.60
68.	North S	ide Center					Wall Cera					tile	Dark Green	I	7.70
69.	69. South Side Center							inal		Porcelain			White	I	1.50
70.	70. North Side Center						Sink Po					1 <u> </u>	White	I	0.00
71.	South S	ide East End	b				Toilet Por					า	White	I	3.70
72.															



Site Na	me:	Madera High School												April 2, 2019		
Addres	s:	200 South	L Street, Madera	a, CA								HMS Jo	b #:	PJ41625		
Start Ti	me:	11:00	Calibration:	1.04 =	0.9	1.04	4 =	0.9 1.04 :		1.0		Technician:		Jeff Olsen		
End Time: 12:30 Calibration: 1.04 = 0.9 1.04							4 =	1.0	1.04 =	0	0.9	Inspect	or/Assessor:	Joseph Vuglia		
Niton XLP 300 22263 See Lead-Based Paint Inspections, Sampling P on Page 1								oling Pro	otocol, &	Def	finitio	n of Lead	-Based Paint	Conditi I = Intact, F	on Codes: = Fair, P = Poor	
No. Sample Location								Component Subs					Color	Condition	XRF Result (mg/cm2)	
73.	Electro															
74.	Center			Partition Metal						Tan	I	0.00				
75.	75. Center								ame	Ме	etal		Green	I	0.02	
76.	South S	ide West En	d				Utility Sink Porcela					<u>1</u>	White	<u> </u>	0.00	
77.																
78.																
79.																
80.																
81.																
82.																
83.																
84.	k															
85.																
86.																
87.																
88.																
89.																

Appendix C Sample Location Drawing







Appendix D Certifications of Personnel and Laboratories

Hazard Management Services, Inc.

This is to confirm that

Jeff Olsen

Has attended the four-hour

AHERA Refresher Course for Asbestos Inspectors

And has completed the requisite training and passed the exam for

asbestos accreditation under TSCA Title II

September 11, 2018

Certificate Number: HMSBIR469

Valid Until: September 11, 2019

Cal/OSHA Approval Number: CA-025-06



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Michael C. Sharp - AHERA Training Director Hazard Management Services, Inc. 207 McHenry Ave. Modesto, CA 95354 (209) 551-2000

STATE OF CALIFORNIA

DEPARTMENT OF INDUSTRIAL RELATIONS Division of Occupational Safety and Health Asbestos Unit 2424 Arden Way, Suite 495 Sacramento, CA 95825-2417 (916) 574-2993 Office (916) 483-0572 Fax http://www.dir.ca.gov/dirdatabases.html actu@dir.ca.gov



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Forensic Analytical Jeffrey A Olsen 371 E Bullard Avenue, 109 Fresno CA 93710 December 19, 2018

Dear Certified Asbestos Consultant or Technician:

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

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

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

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

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

Sincerely.

Jeff Ferrell Senior Safety Engineer

Attachment: Certification Card

cc: File





Hazard Management Services, Inc.

This is to confirm that

Eric Farnsworth

Has attended the twenty-four hour

AHERA Course for Asbestos Inspectors

And has completed the requisite training and passed the exam for

asbestos accreditation under TSCA Title II

September 10-12, 2018

Certificate Number: HMSBII105

Valid Until: September 12, 2019

Cal/OSHA Approval Number: CA-025-05



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Michael C. Sharp - AHERA Training Director Hazard Management Services, Inc. 207 McHenry Ave. Modesto, CA 95354 (209) 551-2000

STATE OF CALIFORNIA

DEPARTMENT OF INDUSTRIAL RELATIONS Division of Occupational Safety and Health Asbestos Certification & Training Unit 2424 Arden Way, Suite 495 Sacramento, CA 95825-2417 (916) 574-2993 Office (916) 483-0572 Fax http://www.dir.ca.gov/dosh/asbestos.html acru@dir.ca.gov

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GAVIN NEWSOM, Governor



March 15, 2019

Eric S Farnsworth 9340 N Jackson Avenue Fresno CA 93720

Dear Certified Asbestos Consultant or Technician:

Congratulations, you have passed your certification examination!

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

Your certification is valid for a period of one year. If you wish to renew your certification, you must apply for renewal at least 60 days <u>before</u> the expiration date shown on your card in accordance with Title 8, California Code of Regulations, Division 1, Chapter 3.2, Article 2.6, Section 341.15(h) (1).

Please keep and do not send copies of your required AHERA refresher renewal certificates to the Division until you apply for renewal of your certification.

Please contact our office at the above address, fax number or email of any changes in your mailing or work address within 15 days of the change.

Sincerely,

Jeff Ferrell Senior Safety Engineer

Attachment

cc: File

State of California Division of Occupational Safety and Health Certified Site Surveillance Technician

Eric S Farnsworth



Certification No. 18-6399

Expires on 02/13/20

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

Passed Exam - Card Attached, Revised 04/04/2012

1201

Hazard Management Services, Inc.

This is to confirm that

Joe Vuglia

Has attended the four-hour

AHERA Refresher Course for Asbestos Inspectors

And has completed the requisite training and passed the exam for

asbestos accreditation under TSCA Title II

September 11, 2018

Certificate Number: HMSBIR474

Valid Until: September 11, 2019

Cal/OSHA Approval Number: CA-025-06



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Michael C. Sharp - AHERA Training Director Hazard Management Services, Inc. 207 McHenry Ave. Modesto, CA 95354 (209) 551-2000

STATE OF CALIFORNIA

DEPARTMENT OF INDUSTRIAL RELATIONS Division of Occupational Safety and Health Asbestos Certification & Training Unit 2424 Arden Way, Suite 495 Sacramento, CA 95825-2417 (916) 574-2993 Office (916) 483-0572 Fax http://www.dir.ca.gov/dosh/asbestos.html acru@dir.ca.gov





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January 28, 2019

Joseph M Vuglia 540 E Nees Ave., Apt 240 Fresno CA 93720

Dear Certified Asbestos Consultant or Technician:

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

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

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

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

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

Sincerely,

Jeff Ferrell Senior Safety Engineer

Attachment: Certification Card

cc: File

Renewal - Card Attached (Revised 01/10/2019)





Hazard Management Services, Inc.

207 McHenry Ave. Modesto, CA 95354 Phone: (209) 551-2000 Fax: (209) 575-5657

Certificate of Attendance and Successful Completion



Renovator Initial – English

Per 40 CFR 745.225

Joseph Vuglia

540 E. Ness Ave. #240 Fresno, CA 93720



Certificate Number: R-I-19061-19-00003

Course Date: 01/28/2019 Examination Date: 01/28/2019 Expiration Date: 01/28/2024

Training Manager/Principal Instructor

01/28/2019 Date National Voluntary Laboratory Accreditation Program



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

Forensic Analytical Laboratories, Inc. 3777 Depot Road, Suite 409 Hayward, CA 94545-2761 Mr. Steven Takahashi Phone: 310-294-4365 Fax: 310-764-1136 Email: stakahashi@falaboratories.com http://www.falaboratories.com

ASBESTOS FIBER ANALYSIS

NVLAP LAB CODE 101459-0

Bulk Asbestos Analysis

<u>Code</u> 18/A01

8/A03

Description EPA -- Appendix E to Subpart E of Part 763 -- Interim Method of the Determination of Asbestos in Bulk Insulation Samples

EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials

Airborne Asbestos Analysis

Code 18/A02

Description

U.S. EPA's "Interim Transmission Electron Microscopy Analytical Methods-Mandatory and Nonmandatory-and Mandatory Section to Determine Completion of Response Actions" as found in 40 CFR, Part 763, Subpart E, Appendix A.

For the National Voluntary Laboratory Accreditation Program



Certificate of Accreditation to ISO/IEC 17025:2005

NVLAP LAB CODE: 101459-0

Forensic Analytical Laboratories, Inc. Hayward, CA

is accredited by the National Voluntary Laboratory Accreditation Program for specific services, listed on the Scope of Accreditation, for:

Asbestos Fiber Analysis

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).

2017-07-01 through 2018-06-30

Effective Dates



For the National Voluntary Laboratory Accreditation Program

Right People Right Perspective Right Now

www.forensicanalytical.com