Fresno Unified School District

Preparing Career Ready Graduates

Purchasing Services
Edward Collins, Executive Director
4498 N. Brawley Ave. Fresno, CA 93722
Ph. (559) 457-3588 Fax (559) 457-6040

September 4, 2020

ADDENDUM No. 1
SPECIAL EDUCATION BUILDING CHILLER INSTALLATION
Informal Bid No. 1787-40017

NOTICE TO ALL BIDDERS

This Addendum is attached to and made a part of the above entitled specifications for Fresno Unified School District with a scheduled bid opening on September 15, 2020 prior to 2:01 P.M. All changes and/or clarifications will appear in **bold** type and deletions will be struck out in revised sentences.

Incorporate the following into your bid response.

I. REFERENCE: SECTION 00 21 00-2 INFORMATION TO BIDDERS, JOB-WALK SIGN-IN SHEETS
Add: Incorporate Job-Walk Sign-in Sheet.

Attached is the Job-Walk Sign-In Sheet for the mandatory job-walk held on September 1, 2020, 9:00AM at the Special Education Building. Only prime bidders are required to attend in order to be considered a responsive bidder.

II. REFERENCE: REPORT, ASBESTOS & LEAD SURVEY REPORT
Add: Incorporate report from Forensic Analytical Consulting Services.

Bidders shall incorporate report from Forensic Analytical Consulting Services dated August 28, 2020. Plans provide survey information on asbestos and lead.

III. REFERENCE: JOB WALK REQUEST FOR INFORMATION (RFI)
Add: Incorporate into Bid response.

Q1. Are the parking spaces on the west end of the Special Education Building available for parking?

A1. **The property is owned by Fresno County, however the District will assist contractor in requesting to obtain temporary permission for use as needed for the project.**

Acknowledge receipt and understanding of this addendum in designated area of the Bid Form.

Edward Collins
Executive Director of Purchasing

FACS
Forensic Analytical Consulting Services

August 28, 2020

Asbestos & Lead Survey Report

Fresno Unified School District
Special Education Building
Chiller Replacement
1301 M Street
Fresno, CA 93721

Prepared for:

William Anderson
Facilities Management & Planning
Fresno Unified School District
4600 North Brawley Avenue
Fresno, CA 93722
(559) 647-9923 |
william.anderson@fresnounified.org

Prepared By:

Eric Farnsworth, CAC, I/A
Forensic Analytical Consulting Services
371 East Bullard Avenue, Suite 109
Fresno, CA 93710
559-436-0277 |
efarnsworth@forensicanalytical.com

FACS Project #PJ47955

Contents

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 Fresno Unified School District (FUSD) to perform a limited asbestos and lead paint survey at the Special Education Building, located at 1301 M Street in Fresno, California. The survey included all suspect asbestos-containing materials (ACM) and suspect paints and coatings for lead which may be disturbed during a planned chiller replacement project. A list of suspect asbestos-containing materials which were identified and sampled is included in Appendix A of this report. A list reporting suspect lead-containing paints or coatings which were identified and tested is included in Appendix B of this report. The survey was performed on August 20, 2020.

Asbestos

No materials tested were found to contain asbestos by laboratory analysis.

Any suspect materials not included in this inspection must be assumed to be asbestos-containing materials until tested and proven to be asbestos-free.

Lead

The following paints or coatings were found to be lead-based by laboratory analysis:

- Green paint on metal chiller cabinet on the roof

Laboratory results indicate the following paints or coatings sampled may be handled as "lead-free":

- White paint on metal pipe at the roof west of the chiller

A lead-containing paint or coating is defined as any detectable lead concentration at any level; there is no lower bound to lead content in the applicable regulations. Any paints or coatings not included in this inspection must be assumed to be lead-containing until tested and proven to be lead-free.

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 Fresno Unified School District (FUSD) to perform an asbestos and lead paint survey of the Special Education Building, located at 1301 M Street in Fresno, California. The survey included all suspect asbestos-containing materials (ACM) and suspect paints and coatings for lead which may be disturbed during a planned modernization of this structure. The survey was performed on August 20, 2020.

Scope of Work

The purpose of this survey was to identify asbestos-containing materials (ACMs) and lead-containing paints or coating which may be disturbed during upcoming renovation activities at the site as part of the chiller replacement project. The visual inspection, bulk sampling, and survey documentation were performed by Eric Farnsworth. Mr. Farnsworth is a Division of Occupational Safety and Health (DOSH) Certified Asbestos Consultant (CAC #19-6643), EPA-accredited AHERA Building Inspector, and a California Department of Public Health (CDPH) Certified Lead Inspector/Assessor (LRC-00005578) as required by California regulations. Technical oversight of the inspection and this report was provided by Chris Chipponeri, who is a DOSH Certified Asbestos Consultant (CAC #10-4633), EPA-accredited AHERA Building Inspector, and CDPH Certified Lead Inspector / Assessor (LRC-00000782). The scope of the survey and the services provided by FACS included:

- Performing a visual inspection of the planned project area to identify accessible suspect asbestos-containing materials (ACMs) and lead paints/coatings that will be disturbed during the planned renovation project;
- Collection of bulk material samples for asbestos analysis by polarized light microscopy (PLM);
- Collection of bulk paint chip samples for lead analysis by flame atomic absorption;
- 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 California Department of Public Health (CDPH) Certified Lead Inspector/Risk Assessors;
- Consolidating data and findings into a report format.

Site Characterization

The Special Education Building roof area, including existing chiller, contains a variety of common building materials. Suspect asbestos-containing materials observed where work will be done include the following:

- Rolled Composition Roofing
- Gasket
- Pipe Insulation
- Paint
- Spray Coating
- Concrete

Survey Methods

Document Review

FACS' review of records in our possession did not indicate any materials present in the planned renovation area had been surveyed before and no data from previous projects was used. The extent of the planned chiller replacement was provided via drawings from William Anderson.

Visual Inspection

Accessible building materials were visually inspected using the methods presented in the Federal AHERA regulations (40 CFR, Part 763). AHERA inspection methodology 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 areas were accessible during this inspection.

Asbestos Inspection

Bulk Sample Collection

Bulk samples of identified homogeneous materials were collected in building areas that may be impacted by the planned renovation/demolition activities. Samples were collected of each separate homogeneous area. A homogeneous area 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 ft^2 or less - collect 3 samples
   1,001 to 5,000 ft^2 - collect 5 samples
   5,001 ft^2 or greater - collect 7 samples

2) For Thermal System Insulation:
   "In a randomly distributed manner" - collect 3 samples
   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 (asbestos-containing 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 SGS-Forensic Laboratories for analysis. A unique sample number (e.g. PJ47955-01A) 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 fourteen (14) bulk samples were collected from a total of six (6) suspect materials. Bulk samples were analyzed by SGS-Forensic Laboratories (SGS-FL) in Hayward, California. SGS-FL 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). SGS-FL 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 where an employee may be occupationally exposed to lead. Paint or materials with any detectable level of lead is considered lead-containing by Cal/OSHA.

Bulk Sampling Methodology

During this inspection, FACS personnel collected three (3) bulk paint chip samples for laboratory confirmation of lead-content. The samples were scraped from the substrate they had been applied to using a knife or chisel to obtain sufficient material for analysis. The sample was given a unique marker number, identified on a chain of custody, packaged, and sent via FedEx to SGS-FL in Hayward, California for analysis. SGS-FL is accredited by the American Industrial Hygiene Association's Environmental Lead Laboratory Accreditation Program for the analysis of lead in bulk paint chips by flame atomic absorption.

Findings and Recommendations

Forensic Analytical Consulting Services, Inc. (FACS) was retained by Fresno Unified School District to perform an asbestos and lead paint survey of the roof area of the Special Education Building in preparation for the chiller replacement project.

Asbestos

No materials tested were found to contain asbestos by laboratory analysis.

Please see Asbestos Survey Summary in Appendix A for identification of all suspect materials sampled during this survey. Any suspect materials not included in this inspection must be assumed to be asbestos-containing materials until tested and proven to be asbestos-free.

Lead

The following paints or coatings were found to be lead-based by laboratory analysis:

- Green paint on metal chiller cabinet on the roof

Laboratory results indicate the following paints or coatings sampled may be handled as "lead-free":

- White paint on metal pipe at the roof west of the chiller

Any paints or coatings not included in this inspection must be assumed to be lead-containing until tested and proven to be lead-free.

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 properly cleanup work areas 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 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 certification.

<u>EPA Renovation, Repair and Painting Rule</u>

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.

While lead-based paints were found within the project area, it is not anticipated that the area would be occupied by children under the age of 6 and the RRP rule would not apply to this project.

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

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 Fresno Unified School District with promoting worker safety and a healthy environment.

Respectfully,
FORENSIC ANALYTICAL

Eric Farnsworth
Project Manager, Fresno
Cal/OSHA CAC #19-6643
CDPH I/A #LRC-00005578

Reviewed by:
FORENSIC ANALYTICAL

Chris Chipponeri
Local Director, Central Valley Offices
Cal/OSHA CAC #10-4633
CDPH I/A #LRC-00000782

Appendix A

Asbestos Survey Summary Table, Sample Chain of Custody and Laboratory Results Report

Asbestos Survey Summary (Lab Report # B307400) FUSD – Special Education Building – Chiller Replacement Survey Date: August 20, 2020						
Sample Numbers	**Material Description**	**Location(s) of Material**	**Material Number**	**Asbestos Content (percent)**	**Asbestos NESHAP Category**	**Approximate Quantity**
01A, 01B, 01C	Rolled Composition Roofing	Roof	01	Layer: Black Tar: None Detect Layer: Black Felt: None Detect Layer: Black Tar: None Detect Layer: Black Felt: None Detect Layer: Black Tar: None Detect Layer: Black Felt: None Detect Layer: Tan Semi-Fibrous Material: None Detect	N/A	N/A
01D	Rolled Composition Roofing	Roof	01	Layer: Black Tar: None Detect Layer: Black Felt: None Detect Layer: Black Tar: None Detect Layer: Black Felt: None Detect Layer: Black Tar: None Detect Layer: Black Felt: None Detect Layer: Black Tar: None Detect Layer: Black Felt: None Detect Layer: Black Tar: None Detect Layer: Black Felt: None Detect Layer: Tan Semi-Fibrous Material: None Detect	N/A	N/A

Asbestos Survey Summary (Lab Report # B307400) FUSD – Special Education Building – Chiller Replacement Survey Date: August 20, 2020						
Sample Numbers	**Material Description**	**Location(s) of Material**	**Material Number**	**Asbestos Content (percent)**	**Asbestos NESHAP Category**	**Approximate Quantity**
01E	Rolled Composition Roofing	Roof	01	Layer: Black Tar: None Detect Layer: Black Felt: None Detect Layer: Black Tar: None Detect Layer: Black Felt: None Detect Layer: Black Tar: None Detect Layer: Black Felt: None Detect Layer: Tan Semi-Fibrous Material: None Detect	N/A	N/A
02A	Gasket (Off-White)	Roof Chiller Pump Pipe	02	Layer: White Fibrous Material: None Detect	N/A	N/A
03A, 03B	Pipe Insulation (Fiberglass)	Roof	03	Layer: Yellow Fibrous Material: None Detect	N/A	N/A
04A, 04B	Paint on 4" OD Pipes	Roof	04	Layer: Paint: None Detect	N/A	N/A
05A, 05B	Chiller Platform Concrete	Roof	05	Layer: Grey Cementitious Material: None Detect	N/A	N/A
06A, 06B	Spray Coating (Off-White)	Roof	06	Layer: White Non-Fibrous Material: None Detect Layer: Paint: None Detect	N/A	N/A
End of Summary						

FACS

SAMPLING DATA FORM & CHAIN OF CUSTODY

CLIENT: **FR09 FACS Fresno** **Fresno Unified School District**	**Sampled by: Eric Farnsworth**	**Sample Date: 8/20/20**
Site/Bldg.: Special Education Building 1301 M Street Fresno CA 93721	**Turnaround Time:** 5 Day	
	Analysis: X **PLM Standard** ____ **PLM with Point Count (** ___ **400 pt.** ___ **1,000 pt.)**	
FACS Proj. No.: PJ47955	**Special Instructions** E-mail results to 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)
01	Rolled Composition Roofing				PJ47955-01A	Roof: Southeast of Chiller	
01	Rolled Composition Roofing				PJ47955-01B	Roof: Southwest of Chiller	
01	Rolled Composition Roofing				PJ47955-01C	Roof: Disconnect Curb East Side	
01	Rolled Composition Roofing				PJ47955-01D	Roof: Curb of Pipe Holder	
01	Rolled Composition Roofing				PJ47955-01E	Roof: Far Southeast of Chiller	
02	Gasket (Off-White)				PJ47955-02A	Roof: Chiller Pump Pipe	
03	Pipe Insulation (Fiberglass)				PJ47955-03A	Roof: Pipe Northwest of Chiller	
03	Pipe Insulation (Fiberglass)				PJ47955-03B	Roof: Pipe Northwest of Chiller	
04	Paint on 4" OD Pipes				PJ47955-04A	Roof: West of Chiller	

DW = Drywall JC = Joint Compound WT = Wall Texture VFT = Vinyl Floor Tile VSF = Vinyl Sheet Flooring BB = Baseboard BBM = Baseboard Mastic CM = Carpet Mastic ACT = Acoustic Ceiling Tile ACS = Sprayed-on Acoustical Ceiling Material FP = Fireproofing PI = Pipe Insulation PFI = Pipe fitting insulation WP = Plaster CP = Ceiling Plaster ES = Exterior Stucco

Relinquished by: **Date & Time** 8/20/20 1615	**Relinquished by:** **Date & Time:**	**Relinquished by:** **Date & Time:**
Received by: **Date & Time** 8/21/20 1130	**Received by:** **Date & Time**	**Relinquished by:** **Date & Time:**

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FACS

SAMPLING DATA FORM & CHAIN OF CUSTODY

CLIENT: **FR09 FACS Fresno** **Fresno Unified School District**	**Sampled by: Eric Farnsworth**	**Sample Date: 8/20/20**
Site/Bldg.: Special Education Building 1301 M Street Fresno CA 93721	**Turnaround Time:** 5 Day **Analysis:** X **PLM Standard** ____ **PLM with Point Count (**___**400 pt.** ____ **1,000 pt.)**	
FACS Proj. No.: PJ47955	**Special Instructions** E-mail results to 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)
04	Paint on 4" OD Pipes				PJ47955-04B	Roof: West of Chiller	
05	Chiller Platform Concrete				PJ47955-05A	Roof: Southwest Corner of Chiller	
05	Chiller Platform Concrete				PJ47955-05B	Roof: Northeast Corner of Chiller	
06	Spray Coating (Off-White)				PJ47955-06A	Roof: West of Chiller	
06	Spray Coating (Off-White)				PJ47955-06B	Roof: West of Chiller	

DW = Drywall JC = Joint Compound WT = Wall Texture VFT = Vinyl Floor Tile VSF = Vinyl Sheet Flooring BB = Baseboard BBM = Baseboard Mastic CM = Carpet Mastic ACT = Acoustic Ceiling Tile ACS = Sprayed-on Acoustical Ceiling Material FP = Fireproofing PI = Pipe Insulation PFI = Pipe fitting insulation WP = Plaster CP = Ceiling Plaster ES = Exterior Stucco

Relinquished by: Eric Farnsworth **Date & Time** 8/20/20	**Relinquished by:** **Date & Time:**	**Relinquished by:** **Date & Time:**
Received by: **Date & Time**	**Received by:** **Date & Time**	**Relinquished by:** **Date & Time:**

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SGS FORENSIC LABORATORIES

Final Report

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
Eric Farnsworth
21228 Cabot Blvd.

Hayward, CA 94545

Client ID: FR09
Report Number: B307400
Date Received: 08/21/20
Date Analyzed: 08/25/20
Date Printed: 08/27/20
First Reported: 08/27/20

Job ID/Site: PJ47955; Special Education Building 1301 M Street Fresno CA 93721

SGSFL Job ID: FR09
Total Samples Submitted: 14
Total Samples Analyzed: 14

Date(s) Collected: 08/20/2020

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
PJ47955-01A	12334812						
Layer: Black Tar			**ND**				
Layer: Black Felt			**ND**				
Layer: Black Tar			**ND**				
Layer: Black Felt			**ND**				
Layer: Black Tar			**ND**				
Layer: Black Felt			**ND**				
Layer: Tan Semi-Fibrous Material			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (55 %) Fibrous Glass (10 %)							
Comment: Bulk complex sample.							
PJ47955-01B	12334813						
Layer: Black Tar			**ND**				
Layer: Black Felt			**ND**				
Layer: Black Tar			**ND**				
Layer: Black Felt			**ND**				
Layer: Black Tar			**ND**				
Layer: Black Felt			**ND**				
Layer: Tan Semi-Fibrous Material			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (55 %) Fibrous Glass (10 %)							
Comment: Bulk complex sample.							
PJ47955-01C	12334814						
Layer: Black Tar			**ND**				
Layer: Black Felt			**ND**				
Layer: Black Tar			**ND**				
Layer: Black Felt			**ND**				
Layer: Black Tar			**ND**				
Layer: Black Felt			**ND**				
Layer: Tan Semi-Fibrous Material			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (55 %) Fibrous Glass (10 %)							
Comment: Bulk complex sample.							

3777 Depot Road, Suite 409, Hayward, CA 94545 / Telephone: (510) 887-8828 (800) 827-FASI / Fax: (510) 887-4218

Report Number: B307400

Client Name: FACS - Fresno **Date Printed:** 08/27/20

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
PJ47955-01D	12334815						
Layer: Black Tar			**ND**				
Layer: Black Felt			**ND**				
Layer: Black Tar			**ND**				
Layer: Black Felt			**ND**				
Layer: Black Tar			**ND**				
Layer: Black Felt			**ND**				
Layer: Black Tar			**ND**				
Layer: Black Felt			**ND**				
Layer: Black Tar			**ND**				
Layer: Black Felt			**ND**				
Layer: Tan Semi-Fibrous Material			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (55 %) Fibrous Glass (10 %)							
Comment: Bulk complex sample.							
PJ47955-01E	12334816						
Layer: Black Tar			**ND**				
Layer: Black Felt			**ND**				
Layer: Black Tar			**ND**				
Layer: Black Felt			**ND**				
Layer: Black Tar			**ND**				
Layer: Black Felt			**ND**				
Layer: Tan Semi-Fibrous Material			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (55 %) Fibrous Glass (10 %)							
Comment: Bulk complex sample.							
PJ47955-02A	12334817						
Layer: White Fibrous Material			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (60 %)							
PJ47955-03A	12334818						
Layer: Yellow Fibrous Material			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (Trace) Fibrous Glass (99 %)							
PJ47955-03B	12334819						
Layer: Yellow Fibrous Material			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (Trace) Fibrous Glass (99 %)							
PJ47955-04A	12334820						
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (Trace)							

3777 Depot Road, Suite 409, Hayward, CA 94545 / Telephone: (510) 887-8828 (800) 827-FASI / Fax: (510) 887-4218

Report Number: B307400

Client Name: FACS - Fresno **Date Printed:** 08/27/20

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
PJ47955-04B	12334821						
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
PJ47955-05A	12334822						
Layer: Grey Cementitious Material			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
PJ47955-05B	12334823						
Layer: Grey Cementitious Material			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
PJ47955-06A	12334824						
Layer: White Non-Fibrous Material			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
PJ47955-06B	12334825						
Layer: White Non-Fibrous Material			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					

Tad Thrower

Tad Thrower, Laboratory Supervisor, Hayward Laboratory

Note: Limit of Quantification ('LOQ') = 1%. 'Trace' denotes the presence of asbestos below the LOQ. 'ND' = 'None Detected'.

3777 Depot Road, Suite 409, Hayward, CA 94545 / Telephone: (510) 887-8828 (800) 827-FASI / Fax: (510) 887-4218

Appendix B

Lead Bulk Sample Chain-of-Custody, Laboratory Results Report, and CDPH Form 8552

FACS

PAINT CHIP SAMPLE REQUEST FORM

Client:	**FR09 FACS Fresno** **Fresno Unified School District**	Sampled by: **Eric Farnsworth** PM: **Eric Farnsworth** Date: **8/20/20**	
Contact:	**Eric Farnsworth** Phone: **(559) 436-0277**	Special Instructions:	E-mail results to efarnsworth@forensicanalytical.com and dpyle@forensicanalytical.com
Site:	**Special Education Building** **1301 M Street**	Turnaround Time:	1-Day ☐ 2-Day ☐ 3-Day ☐ 5-Day ☒ Other ☐ Due Date and Time:
Client No.:	**C23033** **FACS Job #: PJ47955**	Analysis:	☒ Flame AA (Pb) / ☐ Other:

Sample Number	Sample Location	Component	Color	Substrate	Condition
PJ47955-01Pb	Roof: West of Chiller	Pipe	White	Metal	I
PJ47955-02Pb	Roof: South Side of Chiller	Chiller Cabinet	Green	Metal	F
PJ47955-03Pb	Roof: North Side of Chiller	I Beam Holding Chiller	Black	Metal	F

Substrate: wood metal concrete plaster drywall brick

Shipped via: ☒ Fed Ex ☐ Airborne ☐ UPS ☐ US Mail ☐ Courier ☐ Drop Off ☒ Other:

Relinquished by:	*Date & Time:* 15:00 8/20/20	*Received by:*	*Date & Time:* 11:30 am Condition Acceptable ☐ Yes ☐ No
Relinquished by:	*Date & Time:*	*Received by:*	*Date & Time:* Condition Acceptable ☐ Yes ☐ No

RECEIVED AUG 21 2020 FX

SGS FORENSIC LABORATORIES

Final Report

Metals Analysis of Paints

(AIHA-LAP, LLC Accreditation, Lab ID #101762)

FACS - Fresno
Eric Farnsworth
21228 Cabot Blvd.

Hayward, CA 94545

Client ID: FR09
Report Number: M227902
Date Received: 08/21/20
Date Analyzed: 08/27/20
Date Printed: 08/27/20
First Reported: 08/27/20

Job ID / Site: PJ47955; Special Education Building 1301 M Street Fresno CA 93721
Date(s) Collected: 8/20/2020

SGSFL Job ID: FR09
Total Samples Submitted: 3
Total Samples Analyzed: 3

Sample Number	Lab Number	Analyte	Result	Result Units	Reporting Limit*	Method Reference
PJ47955-01PB	30875845	Pb	< 0.006	wt%	0.006	EPA 3050B/7000B
PJ47955-02PB	30875846	Pb	0.61	wt%	0.06	EPA 3050B/7000B
PJ47955-03PB	30875847	Pb	0.087	wt%	0.006	EPA 3050B/7000B

* The Reporting Limit represents the lowest amount of analyte that the laboratory can confidently detect in the sample, and is not a regulatory level. The Units for the Reporting Limit are the same as the Units for the Final Results.

Daniele Siu

Daniele Siu, Laboratory Supervisor, Hayward Laboratory

Note* Sampling data used in this report was provided by the client as noted on the associated chain of custody form.

3777 Depot Road, Suite 409, Hayward, CA 94545 / Telephone: (510) 887-8828 (800) 827-FASI / Fax: (510) 887-4218

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

LEAD HAZARD EVALUATION REPORT

Section 1 — Date of Lead Hazard Evaluation 8/20/20

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

☐ Lead Inspection ☐ Risk assessment ☐ Clearance Inspection ☑ Other (specify) Client Defined

Section 3 — Structure Where Lead Hazard Evaluation Was Conducted

Address [number, street, apartment (if applicable)]	City	County	Zip Code
1301 M Street- Special Education	Fresno	CA	93721

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

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

Name	Telephone number
William Anderson	(559) 647-9923

Address [number, street, apartment (if applicable)]	City	State	Zip Code
4600 N Brawley Ave	Fresno	CA	93722

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

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

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

Section 6 — Individual Conducting Lead Hazard Evaluation

Name	Telephone number
Eric Farnsworth	559 436-0277

Address [number, street, apartment (if applicable)]	City	State	Zip Code
371 E Bullard Ave	Fresno	CA	93710

CDPH certification number	Signature	Date
LRC-0005578	Eric Farnsworth	8/28/20

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

Section 7 — Attachments

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

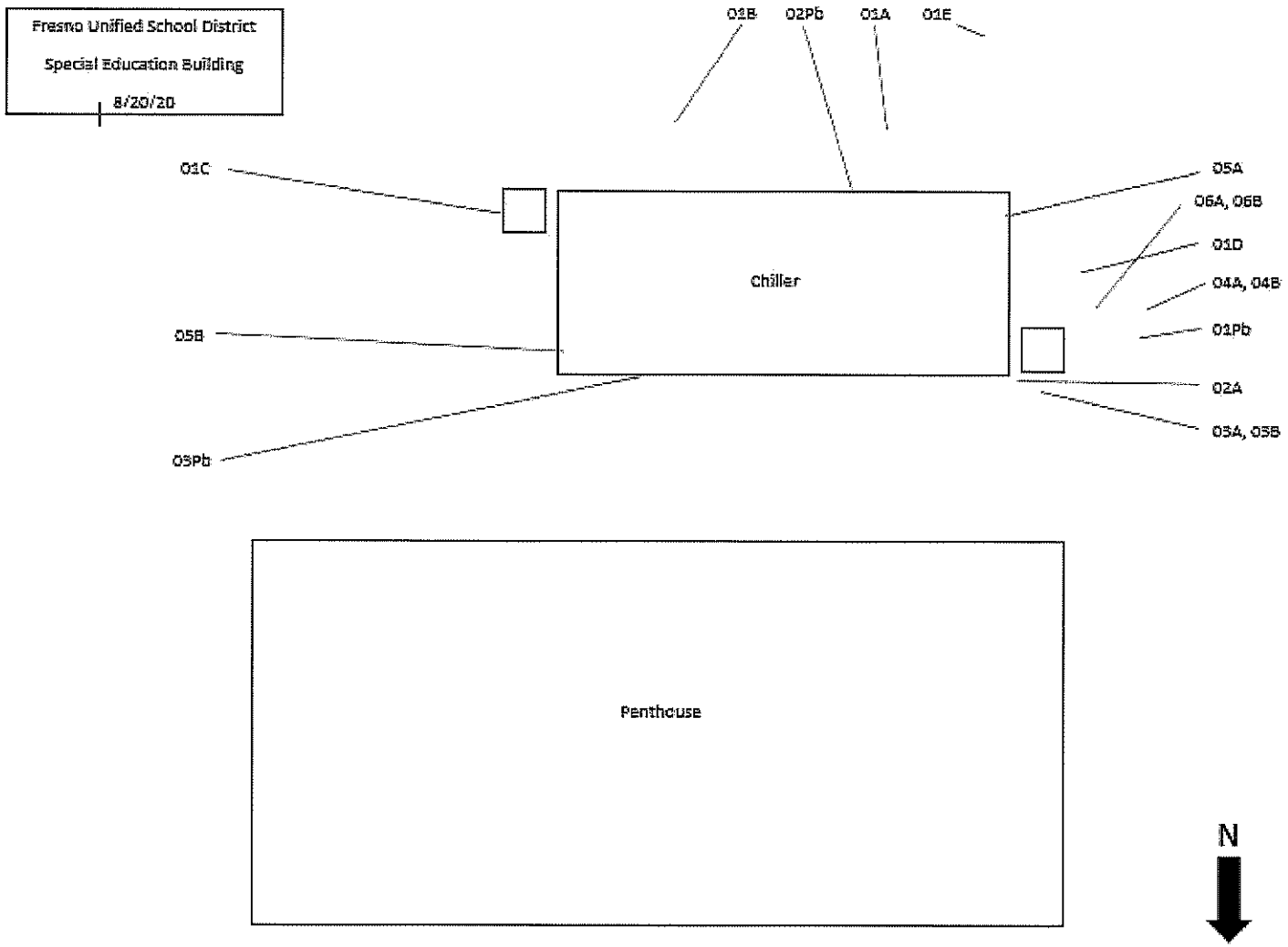
First copy and attachments retained by inspector

Second copy and attachments retained by owner

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

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

Appendix C
Sample Location Drawing



Appendix D
Certifications of Personnel and Laboratories

STATE OF CALIFORNIA GAVIN NEWSOM, *Govemor*

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

909166643C **451**

Forensic Analytical Consulting Services, Inc. **October 21, 2019**
Eric S Farnsworth
371 E. Bullard Avenue, Suite 109
Fresno CA 93710

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 before 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.

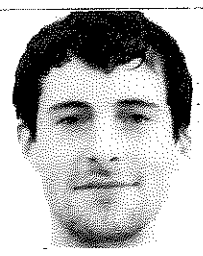
Please contact our office at the above address, fax number or email of any changes in your mailing or work address within 15 days of the change.

Sincerely,

Jeff Ferrell
Senior Safety Engineer

Attachment

cc: File



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

Eric S Farnsworth
Name
Certification No. **19-6643**
Expires on **10/16/20**
This certification was issued by the Division of Occupational Safety and Health as authorized by Sections 7180 et seq. of the Business and Professions Code.

HMS Training

a division of Forensic Analytical Consulting Services

This is to confirm that

Eric Farnsworth

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

July 8, 2020

Certificate Number: HMSBIR824

Valid Until: July 8, 2021

Cal/OSHA Approval Number: CA-025-06

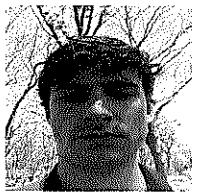
HMS

Michael C. Sharp - Training Director
HMS/Forensic Analytical Consulting Services
207 McHenry Ave. Modesto, CA 95354
(800) 677-1483

California Department of PublicHealth

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC HEALTH

LEAD-RELATED CONSTRUCTION CERTIFICATE

INDIVIDUAL:	CERTIFICATE TYPE:	NUMBER:	EXPIRATION DATE:
	Lead Inspector/Assessor	LRC-00005578	2/18/2021
	Lead Sampling Technician	LRC-00000970	5/22/2020

Eric Farnsworth

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

STATE OF CALIFORNIA
Gavin Newsom, Governor

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

005174633C **339**

June 08, 2020

Christopher J Chipponeri
1401 Louise Avenue
Modesto CA 95350

Dear Certified Asbestos Consultant or Technician:

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

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

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

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

Please notify our office via U.S. Postal Service or other carrier of any changes in your mailing or work address within 15 days of the change.

Sincerely,

Jeff Ferrell
Senior Safety Engineer

Attachment: Certification Card

cc: File

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

Christopher J Chipponeri
Name
Certification No. 10-4633
Expires on 06/16/21

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

Renewal – Card Attached 08/2019

HMS Training

a division of Forensic Analytical Consulting Services

This is to confirm that

Chris Chipponeri

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 10, 2019

Certificate Number: HMSBIR648

Valid Until: September 10, 2020

Cal/OSHA Approval Number: CA-025-06

HMS

Michael C. Sharp - Training Director
HMS/Forensic Analytical Consulting Services
207 McHenry Ave. Modesto, CA 95354
(800) 677-1483

California Department of PublicHealth

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC HEALTH

LEAD-RELATED CONSTRUCTION CERTIFICATE

INDIVIDUAL:	CERTIFICATE TYPE:	NUMBER:	EXPIRATION DATE:
	Lead Inspector/Assessor	LRC-00000782	6/20/2021

Chris Chipponeri

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

United States Department of Commerce
National Institute of Standards and Technology

Certificate of Accreditation to ISO/IEC 17025:2017

NVLAP LAB CODE: 101459-0

SGS Forensic Laboratories

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 17025:2017. 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).

2020-07-01 through 2021-06-30

Effective Dates

For the National Voluntary Laboratory Accreditation Program

National Voluntary Laboratory Accreditation Program

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

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

ASBESTOS FIBER ANALYSIS **NVLAP LAB CODE 101459-0**

Bulk Asbestos Analysis

Code	*Description*
18/A01	EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples
18/A03	EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials

Airborne Asbestos Analysis

Code	*Description*
18/A02	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

AIHA Laboratory Accreditation Programs, LLC

acknowledges that

SGS Forensic Laboratories

3777 Depot Rd, Suite 409, Hayward, CA 94545-2761

Laboratory ID: LAP-101762

along with all premises from which key activities are performed, as listed above, has fulfilled the requirements of the AIHA Laboratory Accreditation Programs (AIHA-LAP), LLC accreditation to the ISO/IEC 17025:2005 international standard, General Requirements for the Competence of Testing and Calibration Laboratories in the following:

LABORATORY ACCREDITATION PROGRAMS

☑	**INDUSTRIAL HYGIENE**	Accreditation Expires: December 01, 2020
☑	**ENVIRONMENTAL LEAD**	Accreditation Expires: December 01, 2020
☑	**ENVIRONMENTAL MICROBIOLOGY**	Accreditation Expires: December 01, 2020
☐	**FOOD**	Accreditation Expires:
☑	**UNIQUE SCOPES**	Accreditation Expires: December 01, 2020

Specific Field(s) of Testing (FoT)/Method(s) within each Accreditation Program for which the above named laboratory maintains accreditation is outlined on the attached Scope of Accreditation. Continued accreditation is contingent upon successful on-going compliance with ISO/IEC 17025:2005 and AIHA-LAP, LLC requirements. This certificate is not valid without the attached Scope of Accreditation. Please review the AIHA-LAP, LLC website (www.aihaaccreditedlabs.org) for the most current Scope.

Elizabeth Bair
Chairperson, Analytical Accreditation Board

Cheryl O Morton
Managing Director, AIHA Laboratory Accreditation Programs, LLC

Revision 17: 09/11/2018

Date Issued: 08/02/2019

Right People

Right Perspective

Right Now

www.forensicanalytical.com