



ARCHITECTS CLIENT FOCUSED. PASSION DRIVEN.

September 17, 2019

TO : All Bidders
FROM : Mark Graham
PROJECT: Cole Elementary School Modernization
1719900.41
SUBJECT: Addendum 3
DSA : 04-117697, File 36-55

The following changes, omissions, and/or additions to the Project Manual and/or Drawings shall apply to proposals made for and to the execution of the various parts of the work affected thereby, and all other conditions shall remain the same.

Careful note of the Addendum shall be taken by all parties of interest so that the proper allowances may be made in strict accordance with the Addendum, and that all trades shall be fully advised in the performance of the work which will be required of them.

Bidder shall acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject Bidder to disqualification.

In case of conflict between Drawings, Project Manual, and this Addendum, this Addendum shall govern.

3. PROJECT MANUAL

3.1 ADDENDUM 2

- A. Article 2.8.B.1: Delete Reference Note 1302.
- B. Article 2.8.C.2: Change Reference Note from 0122 to 1022.
- C. Article 2.8.E: Revise Paragraph 1 to read as follows:
" 1. Relocate the lighting switch per the attached Drawing A0.9."
- D. Change Delta 1 to Delta 2 on Drawings E01, E02, and E03.

3.2 SECTION 01 11 00 - SCOPE OF WORK

- A. Article 1.03.B: Revise the date to September 6, 2019.

Addendum 3
Cole Elementary School Modernization
Project 1719900.41
04-117697 / File 36-55
September 17, 2019
Page 2

B. Article 1.04: Revise Paragraph A to read as follows:

"A. Limited Asbestos, Lead & Hazardous Materials Assessment Report dated September 6, 2019, EFI Global Project Nos. 9821502711 and 045.01450." See attached Report.

END OF ADDENDUM 3

Submitted by,



MARK GRAHAM
Architect, AIA
LEED™ GA
NOMA
Principal



MG:CTW:hb/P41719900x3-add

Attachment: Limited Asbestos, Lead & Hazardous Materials Assessment Report dated September 6, 2019



Limited Asbestos, Lead & Hazardous Materials Assessment Report

Presented To:

SAN BERNARDINO CITY UNIFIED SCHOOL DISTRICT
Facilities Management, Maintenance & Operations Department
956 W. 9th Street
San Bernardino, CA 92411

Assessment Location:

Cole Elementary School
1331 North Cole Avenue
Highland, CA 92346

EFI Global Project Nos. 9821502711 & 045.01450

September 6, 2019

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1.0 INTRODUCTION

This report presents the results of EFI Global's Asbestos, Lead Based Paint & Hazardous Materials Assessment of Cole Elementary School, located at 1331 North Cole Avenue, Highland, CA 92346 (subject property). This document is prepared for the sole use of the client, and any regulatory agencies that are directly involved in this project. No other party should rely on the information contained herein without prior written consent of the client. The scope of services, inspection methodology, and results are presented below.

The purpose of this inspection and survey is to identify the Lead-Based Paint (LBP), Asbestos Containing Materials (ACM) and other hazardous materials present within room E1, and the adjacent boy's and girl's restrooms only, per the scope of work requested by the client. This assessment was limited to the interior of room E1 and adjacent boys and girl's restrooms.

No roofing or exterior material samples of the E Building were collected, per the provided scope of work.

2.0 SCOPE OF WORK

Asbestos

The purpose of this assessment was to conduct bulk sampling in order to determine the presence or absence of ACM within the provided scope of work area outlined by the client within the subject property. The scope of this assessment included reviewing any provided building records and/or previous investigation records, visually identifying homogeneous areas and functional spaces, collecting bulk samples of suspect ACM, interpreting the laboratory results, producing a written report of our findings, recommendations, floor plans and approximations of ACM quantities.

Lead-Based Paint

The purpose of this assessment was to perform an inspection for lead-based paint within the provided scope of work area outlined by the client within the subject property. To comply with Title 17, EPA and HUD guidelines, painted and varnished surfaces in every accessible "room equivalent" were sampled for the presence of LBP and the condition of the painted surfaces was assessed. The intent was to ascertain the presence of lead-based paint above the federal action level using X-Ray Fluorescence (XRF). If LBP was found, the inspection would identify individual architectural components and their respective concentrations of lead in such a manner that this report would be used to characterize the presence of LBP at this property. The scope of work also included producing a written report of our findings, recommendations, floor plans and approximations of LBP quantities.

PCB and Mercury

The purpose of this assessment was to perform an inspection of the light ballasts, PCB-suspect transformers and switchgear, and any mercury containing electrical switches, compact fluorescent light bulbs and thermostats.

Other Hazards

The purpose of this assessment was to perform an inspection and inventory for other universal hazardous materials present during the assessment.

3.0 PROPERTY DESCRIPTION

The subject property is an Elementary School. The building construction in the area of the building that was part of the scope of work included drywall and fiberboard walls, 2'x4' ceiling tiles, carpet and vinyl flooring.

4.0 INSPECTOR'S QUALIFICATIONS

The assessment was performed on November 19, 2018, by Robert Gates, a Division of Occupational Safety and Health (DOSH) Certified Site Surveillance Technician and California Department of Public Health (CDPH) Certified Lead Sampling Technician (DOSH Cert No. 15-5508 and LST Cert No. 28602), working under the supervision of Michael Pinkerton, a DOSH Certified Asbestos Consultant and CDPH Certified Lead Inspector/Risk Assessor/Supervisor (DOSH Cert No. 07-4170 and LIAS Cert. No. 19941).

A follow-up inspection was performed on August 28, 2019, by Heriberto Romero, a DOSH Certified Site Surveillance Technician and a CDPH Certified Lead Sampling Technician (LRCST Cert. No. 25768, CSST Cert. No. 15-5572), working under the supervision of Michael Pinkerton, a DOSH Certified Asbestos Consultant and a CDPH Certified Lead Inspector/Assessor (CAC Cert. No. 07-4170, LRCIA 19941).

5.0 TESTING PROTOCOL

Asbestos

The sampling was performed in accordance with requirements of the following regulations:

- Asbestos Hazard Emergency Response Act (AHERA); 40 CFR 763 Subpart E
- Asbestos School Hazard Abatement Reauthorization Act (ASHARA); Section 206 of the Toxic Substance Control Act
- National Emissions Standards for Hazardous Air Pollutants (NESHAPS); 40 CFR 61 Subpart M.
- South Coast Air Quality Management District (SCAQMD) Rule 1403

This report is a record of activities, observations, analytical results and recommendations performed to date.

Lead-Based Paint

Testing of the painted surfaces was patterned after the inspection protocol in Chapter 7 of the HUD Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing. In every "room equivalent" within the tested property, one representative surface of each "testing combination" was tested. Multiple readings were collected to resolve inconsistencies in the test results.

6.0 REGULATORY LIMITS

Asbestos

Government agencies have promulgated different regulatory threshold levels to classify materials containing asbestos. The levels of asbestos content and the terms used to classify them differ. Listed below are the current regulatory agencies that have defined materials containing asbestos, along with the respective action levels, regulatory terminology and applicability:

Agency / Regulation	Regulatory Code	Action Level (% Weight)	Terminology	Applicability
CAL OSHA	8 CCR Section 341.6(c)	> 0.1%	Asbestos-Containing Construction Material (ACCM)	Removal Work in California
Fed OSHA	29 CFR Section 1926.1101(b)	> 1.0%	Asbestos-Containing Material (ACM)	Removal Work in United States
NESHAP	40 CFR Part 61, Subpart M	> 1.0% and Friable	Regulated Asbestos-Containing Material (RACM)	Transport and Disposal of Waste in United States
SCAQMD	RULE 1403	> 1.0%	Asbestos-Containing Material (ACM)	Removal Work, Transport and Disposal of Waste in SCAQMD District

Lead

Government agencies have promulgated different regulatory threshold levels to classify Lead-Based Paint. Some of the established “levels” are quantified in different units of measurement. Listed below are the current regulatory agencies that have defined LBP, along with the respective action level:

<u>Agency</u>	<u>Ordinance #</u>	<u>Action level (mg / cm²)</u>	<u>Action level (ppm)</u>
HUD / EPA	24 CFR 35.86 & 40 CFR 745.103	1.0 mg / cm ²	5,000 ppm
L.A. County	Title 11, 11.28.010	0.7 mg / cm ²	Not Specified
OSHA / CAL OSHA	29 CFR 1926.62 & Title 8, 1532.1	Not Specified	600 ppm

In recognition of the various action levels the testing results are classified as follows for this report:

- * Painted surfaces with readings at or above 1.0 mg / cm² are considered - Positive
- * Painted surfaces with readings below 1.0 mg / cm² are considered - Negative

The individual readings have been provided on all field data sheets. Any future change in action levels by one of the regulating agencies may affect the classification of results.

For purposes of this survey, any material containing any detectable level of lead is subject to OSHA’s Lead Exposure in Construction Rule (29 CFR Part 1926) and CAL/ OSHA Lead in Construction Standard (Title 8 CCR 1532.1). Any work that impacts these materials must be performed in accordance with these and any other applicable standards.

7.0 METHOD OF TESTING

Asbestos

All samples were collected using a clean knife, chisel or the appropriate tools. The sample location was first moistened with water in order to limit dust release. Each sample was extracted carefully so as not to disturb adjacent materials while still penetrating through all layers of the material sampled. Each sample was sealed in the appropriate sized plastic zip lock bag and the bag then labeled with a unique identification number. The sample number, description and location was then recorded on a log and plotted on a floor plan of the structure or area. Sampling tools were cleaned after collecting each sample. Any excess dust or debris from

the sample location was cleaned using a moistened cloth. Whenever possible, samples were collected from previously damaged portions of the material in order to minimize damage to the material.

On November 19, 2018, a total of eighteen (18) samples were submitted to EMSL Analytical in Cinnaminson, New Jersey EMSL is accredited under the NIST/NVLAP program for asbestos in bulk material by polarized light microscopy and the State of California for asbestos analysis. NIST/NVLAP lab code 101048-0.

On August 28, 2019, a total of three (3) samples were submitted to EMSL Analytical in Cinnaminson, New Jersey EMSL is accredited under the NIST/NVLAP program for asbestos in bulk material by polarized light microscopy and the State of California for asbestos analysis. NIST/NVLAP lab code 101048-0.

The analyses of the samples in this report were performed using polarized light microscopy using the EPA method 600/R-93/116. The phase abundances provided are visually estimated and expressed as percent area. Total percentage of sample constituents may total greater than 100 due to trace amounts. The limit of detection for this analytical method is less than one percent. In multilayer samples, unless otherwise specified, the asbestos concentration is reported for the layer where asbestos is found. These results lie within the statistical limits of variability calculated for standard reference samples routinely analyzed in the laboratory. On a per sample basis, the accuracy and precision of the results depend on the type of sample and its asbestos content.

Lead-Based Paint

The method employed was X-ray fluorescence (XRF) using a Heuresis PE 200i Cobalt 57. The instrument was operated in “Quick Mode,” where the duration for each test result is determined by a combination of:

- the actual reading relative to the designated action level;
- the age of the radioactive source; and
- the substrate on which the test was taken.

The instrument’s calibration was verified according to the manufacturer's specifications in compliance with the Performance Characteristic Sheet (PCS) developed for this instrument.

The readings from this instrument produce a 95% confidence level that the “lead” reading accurately reflects the actual level of lead in the tested surfaces, relative to the federal action level.

8.0 SUMMARY OF RESULTS

Asbestos

All materials sampled as part of this assessment tested negative for asbestos.

The below table presents the homogenous materials identified during the assessment and the asbestos content of those identified materials. The homogenous materials found to contain asbestos are listed in bold type.

HSA Number	Material Description	Location	Asbestos Content (% weight)	Material Quantity *	Friability **	Condition
1	Drywall	Room E1	None Detected	-----	Non-Friable	Good

HSA Number	Material Description	Location	Asbestos Content (% weight)	Material Quantity *	Friability **	Condition
2	Drywall Joint Compound	Room E1	None Detected	-----	Friable	Good
3	Carpet Mastic	Room E1	None Detected	-----	Non-Friable	Good
4	4" Cove Base and Mastic	Room E1	None Detected	-----	Non-Friable	Good
5	Textured Fiberboard	Room E1	None Detected	-----	Friable	Good
6	2'x4' Ceiling Tiles	Room E1	None Detected	-----	Friable	Good
7	12"x12" Beige Vinyl Floor Tiles and Mastic	Room E1	None Detected	-----	Non-Friable	Good
8	Red Wall Putty	Room E1	None Detected	-----	Non-Friable	Good
9	Drywall	Room E1 Restrooms	None Detected	-----	Non-Friable	Good
10	Drywall Joint Compound	Room E1 Restrooms	None Detected	-----	Friable	Good
11	Ceramic Wall and Floor Tiles	Room E1 Restrooms	None Detected	-----	Non-Friable	Good
12	Mortar and Grout Associated with Ceramic Wall and Floor Tiles	Room E1 Restrooms	None Detected	-----	Non-Friable	Good

* All quantities are approximations and should be verified by an abatement contractor.

** Non-friable materials may be rendered friable during removal by mechanical or other aggressive methods.

Homogeneous materials are defined as surfacing materials, thermal system insulation materials or miscellaneous materials that are uniform in color and texture. Homogenous sample areas are the areas where homogenous materials are located. Multiple sample locations are selected within each homogenous sample area so as to be a true representation of each homogenous material. Typically, a minimum of three (3) samples must be collected from each homogeneous area when sampling materials that may have variable asbestos content because it was batch mixed or applied by different contractors. High asbestos content variability is especially true of surfacing materials (sprayed-on and troweled on materials like plaster, fireproofing, acoustic ceiling, plaster) and thermal system insulation (TSI) used to insulate pipes, boilers, tanks or ducts to prevent heat loss. As many as 9 samples may be collected of surfacing materials when they cover large surface areas.

It should be pointed out that materials appear to be homogeneous may in fact be different materials, installed at different times and have different material content in terms of asbestos; only laboratory testing can determine whether they are really the same homogeneous area.

Lead-Based Paint

A total of fifty-one (51) XRF readings were collected to test painted and coated surfaces for lead-based paint (LBP). The results are summarized in Section 3.1 and the table of results attached in Appendix III.

The following painted components were found to have LBP:

- **Red Window Frame, Room E1 – 2.1 to 2.3 mg/cm²**

Sampling for this inspection was representative and any components that were not tested but similar to those components that tested positive for LBP shall be considered and treated as lead laden.

None of the other painted components tested by XRF are at or above the respective levels considered to be lead-based paint (LBP); however, paint may contain detectable levels of lead in the coatings which make work impacting those surfaces subject to the Cal / OSHA Lead in Construction Standard (Title 8 CCR 1532.1).

A total of two (2) paint chip samples were collected during the assessment for confirmation purposes. The following table identifies the results of the paint chip samples:

Sample Number	Material	Location	Lead Content (%)	Quantity (Sq. Inch)	Condition
111918-1LB-RG	Red Paint on Wood Window Frame	Room E1	3.5	2	Good
111918-2LB-RG	White Paint on Wood Window Sill	Room E1	<0.0080	2	Good

The results of the paint chip samples confirm the results of the XRF sampling outlined above.

PCB and Mercury

Fluorescent Light Ballasts

Fluorescent light ballasts that contain PCBs are considered hazardous and are regulated by the California EPA DTSC. Ballasts manufactured prior to January 1, 1978, and that are not labeled “No PCBs” must be considered PCB containing unless testing proves otherwise. TRC inspected select fluorescent light ballasts present within Building 11A, all of which were observed to contain the “No PCBs” labeling and were therefore determined to not house PCB containing cooling oils. However, if during any future renovation/demolition activities, fluorescent light ballasts devoid of the “No PCBs” labeling are encountered they must be disposed of as PCB containing unless tested to establish otherwise in accordance with Title 22, division 4.5 of the CCR “Universal Waste Rule.”

During the assessment, EFI Global inspected approximately 4 light fluorescent light ballasts and confirmed the presence of the “No PCBs” label on each inspected ballast.

Fluorescent Light Bulbs

All fluorescent lights contain varying percentages of mercury. The Environmental Protection Agency (EPA) has tested fluorescent light bulbs for mercury based on the Toxicity Characteristic Leaching Procedure (TCLP). All fluorescent light bulbs observed did not show any markings showing the “Hg” stamp.

Mercury Containing Thermostats

During the assessment, no mercury containing thermostats switches were observed within Room E1 or the adjacent restrooms.

High Intensity Discharge (HID) Lamps

During the assessment, no HID Lamps were observed within Room E1 and adjacent restrooms.

Emergency Exit Signs

All emergency exit signs were labeled as being powered with LED lights and are therefore non-hazardous.

PCB Containing Transformers

No transformers were located in room E1 or the adjacent restrooms.

9.0 RECOMMENDATIONS

Asbestos

No recommendations regarding the materials sampled as part of this assessment are provided in this report.

Any suspect materials, that are not identified above and may be impacted during work activities, must be presumed to contain asbestos until laboratory analysis of an adequate number of samples proves otherwise.

Lead-Based Paint

All lead laden components identified in this report shall be demolished or abated by certified lead trained personnel in accordance with all applicable federal, state and local regulations. All suspected lead laden components shall undergo paint film stabilization before components are removed by manual intact methods. LBP that will be impacted by hot work (welding, torch cutting, etc.) must be removed from the component by lead abatement workers to allow a minimum of 6 inches clearance on either side of the location of the hot work to prevent the volatilization of lead into the air.

Paint found not to contain lead levels considered to be LBP may still contain detectable levels of lead in the coatings which make work impacting those surfaces subject to Cal / OSHA Lead in Construction Standard 1532.1. This standard requires that respiratory protection and containment is used when performing “trigger tasks” until results of personal air monitoring indicate that workers are not exposed to lead above the action level or permissible exposure level. Additionally, the demolition or removal of lead or components with lead coatings is subject to Title 17, Division 1, Chapter 8 of the California Code of Regulations.

Should the contractor choose not to remove the lead-based paint materials and demolish the structure in its entirety with the lead-paint components in place, it is recommended that the contractor stabilize the LBP components prior to demolition and then collect samples representative of the entire mass of the prospective waste stream be collected by the contractor. These samples should then be analyzed according to the United States Environmental Protection Agency (EPA) and the California Department of Toxic Substances Control (DTSC) prior to disposal facility acceptance.

PCB and Mercury

All fluorescent light bulbs located throughout the building should be removed, disposed of or recycled as Mercury containing waste. All light tubes should be handled and containerized properly, in a manner to prevent breaking and potentially releasing mercury.

California does not permit disposal of mercury containing light fixtures in landfills. Recycling information and schedules provided by the EPA and the Los Angeles Department of Public Works can be obtained online via the following websites:

- <http://www.epa.gov/bulbrecycling>

- <http://ladpw.org/epd/hhw/schedule.cfm>.

Of the random inspection performed, all ballasts were marked with the “No PCB” designation on the label. However, during the demolition activities all ballasts that are not designated as “PCB Free” on the label should be treated as PCB containing and disposed of properly. The removal and disposal of the ballasts that are not labeled to contain “No PCB” should follow all regulations outlined in the Toxic Substance Control Act (TSCA). Based on the amount of ballasts being removed and disposed of, the disposal of the ballasts may fall under the Small Capacitor Disposal Rule, which indicated that small amounts of “non-leaking” PCB ballasts may be disposed of in permitted landfills. However, if the ballasts are, at the time of removal and disposal leaking, the ballasts have to be disposed of as regulated PCB waste.

All electrical transformers should be disposed of by the contractor following all applicable regulations.

10.0 INSPECTION LIMITATIONS

The inspection and testing report is based on the condition of the subject property existing and apparent on the precise time and exact date of the inspection. Not all conditions may be apparent on the inspection and testing date due to weather conditions, inoperable systems, inaccessibility of areas of the subject property, or for other reasons.

EFI Global has prepared this report for the exclusive use of its client. EFI Global, in performing its professional services, has applied scientific judgment that it believes is consistent with industry standards. EFI Global inspected structures and/or contents in a good faith effort to observe pertinent detail. Due to the limitations of time, access, and other variables, certain details may have been overlooked. EFI Global has relied in good faith upon the information and representations of others in the preparation of this report and the opinions expressed herein. Accordingly, EFI Global accepts no responsibility for deficiencies, omissions, misrepresentations, or fraudulent acts of persons interviewed.

EFI Global assumes no liability for any loss, injury, claim, or damage arising directly or indirectly from any use or reliance on this report or the opinions expressed herein. EFI Global makes no warranty, express or implied. This report is limited only to the samples taken and locations sampled. Additional sampling may be needed to further identify other pollutants or asbestos affected areas inside the property.

In as such that no destructive investigation has been performed during the survey, the report may not reveal concealed asbestos-containing materials. Subsequently, additional investigation including construction documents review and/or destructive investigation is recommended as a precaution to prevent accidental exposure when construction or demolition is planned for this facility

Thank you for the opportunity to work with you on this project. Please contact the undersigned at (310) 854-6300, if you have questions or if additional services are necessary.

Survey and Report by:



Michael Pinkerton
DOSH Certified Asbestos Consultant No. 07-4170
CDPH Certified Lead Inspector/Assessor No. 19941

APPENDICES

Appendix A – ASBESTOS SAMPLE RESULTS



EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077

Tel/Fax: (800) 220-3675 / (856) 786-5974

<http://www.EMSL.com> / cinnaslab@EMSL.com

EMSL Order: 041834604

Customer ID: 32ANDE85

Customer PO:

Project ID:

Attention: Robert Gates
EFI Global, Inc.
5261 West Imperial Highway
Los Angeles, CA 90045

Phone: (888) 705-6300

Fax:

Received Date: 11/20/2018 9:40 AM

Analysis Date: 11/21/2018 - 11/26/2018

Collected Date: 11/19/2018

Project: 9821502711 / San Bernardino City Unified School District HazMat / Cole Elementary School

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

Sample	Description	Appearance	Non-Asbestos		Asbestos % Type
			% Fibrous	% Non-Fibrous	
111918-1A-RG-Drywall <small>041834604-0001</small>	Room E1 - West Wall - South - Drywall	White Non-Fibrous Homogeneous	5% Cellulose	95% Non-fibrous (Other)	None Detected
111918-1A-RG-Joint Compound <small>041834604-0001A</small>	Room E1 - West Wall - South - Joint Compound	White Non-Fibrous Homogeneous	3% Cellulose	97% Non-fibrous (Other)	None Detected
111918-1B-RG-Drywall <small>041834604-0002</small>	Room E1 - West Wall - Center - Drywall	White Fibrous Homogeneous	5% Cellulose 2% Glass	93% Non-fibrous (Other)	None Detected
111918-1B-RG-Joint Compound <small>041834604-0002A</small>	Room E1 - West Wall - Center - Joint Compound	White Non-Fibrous Homogeneous	3% Cellulose	97% Non-fibrous (Other)	None Detected
111918-1C-RG-Drywall <small>041834604-0003</small>	Room E1 - West Wall - North - Drywall	Brown/White Fibrous Homogeneous	15% Cellulose 3% Glass	82% Non-fibrous (Other)	None Detected
111918-1C-RG-Joint Compound <small>041834604-0003A</small>	Room E1 - West Wall - North - Joint Compound	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
111918-2A-RG <small>041834604-0004</small>	Room E1 - West - Center - Tan Adhesive associated with Carpet	Tan/Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
111918-2B-RG <small>041834604-0005</small>	Room E1 - South - Center - Tan Adhesive associated with Carpet	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
111918-3A-RG-Cove Base <small>041834604-0006</small>	Room E1 - West Wall - Center - Black Cove Base	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
111918-3A-RG-Adhesive <small>041834604-0006A</small>	Room E1 - West Wall - Center - Adhesive	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
111918-3B-RG-Cove Base <small>041834604-0007</small>	Room E1 - South Wall - Center - Black Cove Base	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
111918-3B-RG-Adhesive <small>041834604-0007A</small>	Room E1 - South Wall - Center - Adhesive	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
111918-4A-RG <small>041834604-0008</small>	Room E1 - West Wall - Center - Tan Textured Fiberboard	Tan Fibrous Homogeneous	80% Cellulose	20% Non-fibrous (Other)	None Detected

Initial report from: 11/26/2018 09:00:39



EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077

Tel/Fax: (800) 220-3675 / (856) 786-5974

<http://www.EMSL.com> / cinnasblab@EMSL.com

EMSL Order: 041834604
Customer ID: 32ANDE85
Customer PO:
Project ID:

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
111918-4B-RG <small>041834604-0009</small>	Room E1 - North Wall - East - Tan Textured Fiberboard	Tan/White Fibrous Homogeneous	80% Cellulose 5% Synthetic	15% Non-fibrous (Other)	None Detected
111918-5A-RG <small>041834604-0010</small>	Room E1 - Northwest - 2x4 White Ceiling Panel	White/Yellow Fibrous Homogeneous	70% Glass	30% Non-fibrous (Other)	None Detected
111918-5B-RG <small>041834604-0011</small>	Room E1 - Center - 2x4 White Ceiling Panel	White/Yellow Fibrous Homogeneous	70% Glass	30% Non-fibrous (Other)	None Detected
111918-6A-RG-VFT <small>041834604-0012</small>	Room E1 - Southeast - Beige 12x12 VFT	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
111918-6A-RG-Adhesive <small>041834604-0012A</small>	Room E1 - Southeast - Adhesive	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
111918-6B-RG-VFT <small>041834604-0013</small>	Room E1 - Southeast - Beige 12x12 VFT	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
111918-6B-RG-Adhesive <small>041834604-0013A</small>	Room E1 - Southeast - Adhesive	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
111918-7A-RG <small>041834604-0014</small>	Room E1 - North Wall - West - Red Putty - Painted White	White/Red Non-Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected
111918-7B-RG <small>041834604-0015</small>	Room E1 - North Wall - West - Red Putty - Painted White	White/Red Non-Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected
111918-8A-RG-Drywall <small>041834604-0016</small>	Boys' Restroom - West Wall - Center - Drywall	Brown/White Fibrous Homogeneous	5% Cellulose 10% Glass	85% Non-fibrous (Other)	None Detected
111918-8A-RG-Joint Compound <small>041834604-0016A</small>	Boys' Restroom - West Wall - Center - Joint Compound	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
111918-8B-RG-Drywall <small>041834604-0017</small>	Boys' Restroom - East Wall - Center - Drywall	Brown/White Fibrous Homogeneous	5% Cellulose 10% Glass	85% Non-fibrous (Other)	None Detected
111918-8B-RG-Joint Compound <small>041834604-0017A</small>	Boys' Restroom - East Wall - Center - Joint Compound	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
111918-8C-RG-Drywall <small>041834604-0018</small>	Girls' Restroom - North Wall - Center - Drywall	Brown/White Fibrous Homogeneous	10% Cellulose 10% Glass	80% Non-fibrous (Other)	None Detected
111918-8C-RG-Joint Compound <small>041834604-0018A</small>	Girls' Restroom - North Wall - Center - Joint Compound	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected



EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077

Tel/Fax: (800) 220-3675 / (856) 786-5974

<http://www.EMSL.com> / cinnasblab@EMSL.com

EMSL Order: 041834604

Customer ID: 32ANDE85

Customer PO:

Project ID:

Analyst(s)

Andrew Burke (12)

Daniel Blake (12)

Michael Moore (4)

Benjamin Ellis, Laboratory Manager
or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method"), but augmented with procedures outlined in the 1993 ("final") version of the method. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. All samples received in acceptable condition unless otherwise noted. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. EMSL recommends gravimetric reduction for all non-friable organically bound materials prior to analysis. Estimation of uncertainty is available on request.

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NVLAP Lab Code 101048-0, AIHA-LAP, LLC-IHLAP Lab 100194, NYS ELAP 10872, NJ DEP 03036, PA ID# 68-00367

Initial report from: 11/26/2018 09:00:39

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Engineering, Fire &
Environmental Services

HOMOGENOUS MATERIALS IDENTIFICATION TABLE

PROJECT NUMBER: 9821502711 PROJECT NAME: San Bernardino Unified School District Hazmat

PROJECT LOCATION: Cole Elementary School DATE: 11-19-18 COMPLETED BY: Robert Gates

HOMOGENOUS IDENTIFICATION NUMBER	MATERIAL DESCRIPTION	MATERIAL LOCATIONS
1	Drywall and Joint Compound	Rm E1
2	Tan Adhesive Associated with Carpet	
3	Black Gole Base with Adhesive	
4	Tan Textured Fiberboard	
5	2x4 white Ceiling Panel	
6	Red Putty - Beige TRX12 VFI with Adhesive	
7	Red Putty - Painted White	
8	Drywall and Joint Compound	Boys and girls Restrooms adjacent to E1

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Engineering, Fire & Environmental Services

ASBESTOS FIELD BULK SAMPLE TABLE

PROJECT NUMBER: 9821502711

PROJECT NAME: San Bernardino Unified School District Hazmat

PROJECT LOCATION: Cole Elementary DATE: 11-19-18 COMPLETED BY: Robert Gates

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SAMPLE NUMBER	SAMPLE DESCRIPTION	SAMPLE LOCATION	APPROX. SQUARE FOOTAGE	CONDITION	HOMOGENOUS APPLICATION
111918-1A-RG	Drywall and Joint Compound	Rm E1- West Wall - South	75	F / (NP) / (G) / D / SD	(S) / TSI / MISC
1B		- Center	↓	F / (NP) / (G) / D / SD	(S) / TSI / MISC
1C		- North		F / (NP) / (G) / D / SD	(S) / TSI / MISC
2A	Tan Adhesive Associatee with Carpet	- West - Center	1,400	F / (NP) / (G) / D / SD	S / TSI / MISC
2B		- South - Center	↓	F / (NP) / (G) / D / SD	S / TSI / MISC
3A	Black Cove Base with Adhesive	- West Wall - Center	150	F / (NP) / (G) / D / SD	S / TSI / MISC
3B		- South Wall - Center	↓	F / (NP) / (G) / D / SD	S / TSI / MISC
4A	Tan Textured Fiberboard	- West Wall - Center	750	F / (NP) / (G) / D / SD	S / TSI / MISC
4B		- North Wall - East	↓	F / (NP) / (G) / D / SD	S / TSI / MISC
5A	2' x 4' white Ceiling Panel	- Northwest	1,400	F / (NP) / (G) / D / SD	S / TSI / MISC
5B		- Center	↓	F / (NP) / (G) / D / SD	S / TSI / MISC
6A	Beige 12" x 12" VFT with Adhesive	- Southeast	25	F / (NP) / (G) / D / SD	S / TSI / MISC

18 NOV 2018
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 MASON

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Engineering, Fire & Environmental Services

ASBESTOS FIELD BULK SAMPLE TABLE

PROJECT NUMBER: 9821502711 PROJECT NAME: San Bernardino Unified School District Hazmat

PROJECT LOCATION: Cole Elementary DATE: 11-19-18 COMPLETED BY: Robert Gates

SAMPLE NUMBER	SAMPLE DESCRIPTION	SAMPLE LOCATION	APPROX. SQUARE FOOTAGE	CONDITION	HOMOGENEOUS APPLICATION
111918-6B-R6	Beige 12"x14" VFT with Adhesive	Rm E1 - Southeast	25	F / NF G D SD	S / TSI / MISC
7A	Red Putty - Painted white	- Northwall - West	16	F / NF G D SD	S / TSI / MISC
7B		-	↓	F / NF G D SD	S / TSI / MISC
8A	Drywall and Joint Compound	Boys Restroom - West Wall - Center	975	F / NF G D SD	S / TSI / MISC
8B		- East Wall - Center		F / NF G D SD	S / TSI / MISC
8C		Girls Restroom - North wall - Center	↓	F / NF G D SD	S / TSI / MISC
				F / NF G D SD	S / TSI / MISC
				F / NF G D SD	S / TSI / MISC
				F / NF G D SD	S / TSI / MISC
				F / NF G D SD	S / TSI / MISC
				F / NF G D SD	S / TSI / MISC

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Appendix B – LEAD-BASED PAINT TABLE

Date	Sample #	Pb (mg/cm2)	+/-	Result	Location	Side	Color	Substrate	Component	Condition
11/19/2018	1	1.1	0.2	POS	-	-	-	-	Calibration	-
11/19/2018	2	1.1	0.3	POS	-	-	-	-	Calibration	-
11/19/2018	3	1.1	0.2	POS	-	-	-	-	Calibration	-
11/19/2018	4	0.1	0.3	NEG	-	-	-	-	Calibration	-
11/19/2018	5	0.1	0.3	NEG	Boy's Restroom Adjacent to Room E1	West	Red	Metal	Door	Intact
11/19/2018	6	0	0.3	NEG	Boy's Restroom Adjacent to Room E1	West	Red	Metal	Door Frame	Intact
11/19/2018	7	0.1	0.3	NEG	Boy's Restroom Adjacent to Room E1	West	Brown	Ceramic	Floor Tile 2x2	Intact
11/19/2018	8	0.3	0.3	NEG	Boy's Restroom Adjacent to Room E1	South	Beige	Ceramic	Wall Tile 4x4	Intact
11/19/2018	9	0.3	0.2	NEG	Boy's Restroom Adjacent to Room E1	South	Green	Ceramic	Wall Tile 4x4	Intact
11/19/2018	10	0.4	0.2	NEG	Boy's Restroom Adjacent to Room E1	South	White	Porcelain	Sink	Intact
11/19/2018	11	-0.1	0.3	NEG	Boy's Restroom Adjacent to Room E1	North	White	Porcelain	Sink	Intact
11/19/2018	12	0.1	0.3	NEG	Boy's Restroom Adjacent to Room E1	Northwest	White	Porcelain	Urinal	Intact
11/19/2018	13	0.1	0.3	NEG	Boy's Restroom Adjacent to Room E1	Northeast	White	Porcelain	Urinal	Intact
11/19/2018	14	-0.3	0.3	NEG	Boy's Restroom Adjacent to Room E1	Northeast	White	Porcelain	Toilet	Intact
11/19/2018	15	0	0.3	NEG	Boy's Restroom Adjacent to Room E1	North	Beige	Drywall	Wall	Intact
11/19/2018	16	0.1	0.3	NEG	Boy's Restroom Adjacent to Room E1	South	Beige	Drywall	Wall	Intact
11/19/2018	17	0.1	0.3	NEG	Boy's Restroom Adjacent to Room E1	East	Beige	Drywall	Wall	Intact
11/19/2018	18	0.3	0.2	NEG	Boy's Restroom Adjacent to Room E1	West	Beige	Drywall	Wall	Intact
11/19/2018	19	0.1	0.3	NEG	Boy's Restroom Adjacent to Room E1	South	White	Metal	Hand Air Dryer	Intact
11/19/2018	20	0.1	0.3	NEG	Girl's Restroom Adjacent to Room E1	South	Red	Metal	Door	Intact
11/19/2018	21	0	0.3	NEG	Girl's Restroom Adjacent to Room E1	South	Red	Metal	Door Frame	Intact

Date	Sample #	Pb (mg/cm2)	+/-	Result	Location	Side	Color	Substrate	Component	Condition
11/19/2018	22	0.1	0.3	NEG	Girl's Restroom Adjacent to Room E1	North	Brown	Ceramic	Floor Tile 2x2	Intact
11/19/2018	23	0.3	0.3	NEG	Girl's Restroom Adjacent to Room E1	North	Beige	Ceramic	Wall Tile 4x4	Intact
11/19/2018	24	0.3	0.2	NEG	Girl's Restroom Adjacent to Room E1	North	Red	Ceramic	Wall Tile 4x4	Intact
11/19/2018	25	0.2	0.3	NEG	Girl's Restroom Adjacent to Room E1	East	White	Metal	Hand Air Dryer	Intact
11/19/2018	26	0.2	0.3	NEG	Girl's Restroom Adjacent to Room E1	West	White	Metal	Hand Air Dryer	Intact
11/19/2018	27	0.5	0.2	NEG	Girl's Restroom Adjacent to Room E1	Northwest	White	Porcelain	Sink	Intact
11/19/2018	28	0.5	0.2	NEG	Girl's Restroom Adjacent to Room E1	Northeast	White	Porcelain	Sink	Intact
11/19/2018	29	-0.1	0.3	NEG	Girl's Restroom Adjacent to Room E1	Southwest	White	Porcelain	Toilet	Intact
11/19/2018	30	-0.1	0.3	NEG	Girl's Restroom Adjacent to Room E1	Southeast	White	Porcelain	Toilet	Intact
11/19/2018	31	0.2	0.3	NEG	Girl's Restroom Adjacent to Room E1	North	Beige	Drywall	Wall	Intact
11/19/2018	32	0.2	0.3	NEG	Girl's Restroom Adjacent to Room E1	South	Beige	Drywall	Wall	Intact
11/19/2018	33	0	0.3	NEG	Girl's Restroom Adjacent to Room E1	East	Beige	Drywall	Wall	Intact
11/19/2018	34	-0.3	0.3	NEG	Girl's Restroom Adjacent to Room E1	West	Beige	Drywall	Wall	Intact
11/19/2018	35	0.6	0.2	NEG	Room E1	North	Red	Metal	Door	Intact
11/19/2018	36	0.5	0.2	NEG	Room E1	North	Red	Metal	Door Frame	Intact
11/19/2018	37	0.5	0.2	NEG	Room E1	South	Red	Metal	Door	Intact
11/19/2018	38	0.5	0.2	NEG	Room E1	South	Red	Metal	Door Frame	Intact
11/19/2018	39	2.3	0.3	POS	Room E1	South	Red	Wood	Window Frame	Intact
11/19/2018	40	0.4	0.2	NEG	Room E1	South	Red	Wood	Window Sill	Intact
11/19/2018	41	0.2	0.3	NEG	Room E1	West	White	Drywall	Wall	Intact
11/19/2018	42	0.1	0.3	NEG	Room E1	West	White	Wood	Wall	Intact
11/19/2018	43	0.1	0.3	NEG	Room E1	North	White	Wood	Wall	Intact
11/19/2018	44	0.1	0.3	NEG	Room E1	South	White	Wood	Wall	Intact
11/19/2018	45	0.1	0.3	NEG	Room E1	East	White	Wood	Wall	Intact
11/19/2018	46	0.4	0.2	NEG	Room E1	South	White	Wood	Window Sill	Intact

Date	Sample #	Pb (mg/cm2)	+/-	Result	Location	Side	Color	Substrate	Component	Condition
11/19/2018	47	2.1	0.3	POS	Room E1	South	Red	Wood	Window Frame	Intact
11/19/2018	48	1.1	0.2	POS	-	-	-	-	Calibration	-
11/19/2018	49	1	0.2	POS	-	-	-	-	Calibration	-
11/19/2018	50	1	0.2	POS	-	-	-	-	Calibration	-
11/19/2018	51	0	0.3	NEG	-	-	-	-	Calibration	-



EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (856) 303-2500 / (856) 786-5974

<http://www.EMSL.com>

cinnaminsonleadlab@emsl.com

EMSL Order:	201813451
CustomerID:	32ANDE85
CustomerPO:	
ProjectID:	

Attn: **Robert Gates**
EFI Global, Inc.
5261 West Imperial Highway
Los Angeles, CA 90045

Phone: (888) 705-6300
 Fax:
 Received: 11/20/18 10:15 AM
 Collected: 11/19/2018

Project: **9821502711 / San Bernardino City Unified School District Hazmat**

Test Report: Lead in Paint Chips by Flame AAS (SW 846 3050B/7000B)*

<i>Client Sample Description</i>	<i>Lab ID</i>	<i>Collected</i>	<i>Analyzed</i>	<i>Weight</i>	<i>Lead Concentration</i>
111918-1LB-RG	201813451-0001	11/19/2018	11/21/2018	0.2478 g	3.5 % wt
Site: Rm E1 South Wall - Red paint on wood window frame					
111918-2LB-RG	201813451-0002	11/19/2018	11/21/2018	0.2955 g	<0.0080 % wt
Site: Rm E1 South Wall - White paint on wood window sill					

Phillip Worby, Lead Laboratory Manager
or other approved signatory

*Analysis following Lead in Paint by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 0.008 % wt based on the minimum sample weight per our SOP. Unless noted, results in this report are not blank corrected. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities. Samples received in good condition unless otherwise noted. "<" (less than) result signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements unless specifically indicated otherwise. Definitions of modifications are available upon request.

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NELAP Certifications: NJ 03036, NY 10872, PA 68-00367, AIHA-LAP, LLC ELLAP 100194, A2LA 2845.01

Initial report from 11/24/2018 08:33:13

2018 13451

Turn Around Time - (Circle) 3hr 6hr 24hr 48hr 72hr
 *Please select based on laboratory being used

EFI Global
 Engineering, Fire & Environmental Services
Laboratory Chain of Custody

Standard

Andersen Environmental Project No.:	Project Name:	Sampling By:	Date(s) Collected:	Page No.:	Total Pages
9821502711	San Bernardino City Unified School District HazMat	Robert Gates	11-19-18	1	Of 1

Sample No.:	Sample Location & Comments	Start Flow Rate	End Flow Rate	Start Time	Stop Time	Total Volume Area/SQFT	Type of Analysis
11918-1LB-RG	Am E1 South Wall - Red Paint on Wood Window Frame					2 in ²	Analysis Type: Lead by Serial No.: Flame AA
2LB	- White Paint on Wood Window Sill						Analysis Type: Serial No.:
							Analysis Type: Serial No.:
							Analysis Type: Serial No.:
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							Analysis Type: Serial No.:

Relinquished By (Print & Sign)(Date & Time)
 Robert Gates MG 11-19-18 1330
 Received By (Print & Sign) (Date & Time)
 Christina Kramer 11/19/18
 Received By (Print & Sign) (Date & Time)
 Emsl FedEx 11/20/18

Special Instructions:	Stop Positive:	E-mail to Additional Party:
	Yes No	Michael.Pinkerton@EFIGlobal.com Robert.Gates@EFIGlobal.com

5261 West Imperial Hwy Los Angeles, CA 90045, Ph (310) 854-6300, Fax (310) 854-0199

Appendix C – INSPECTOR’S CERTIFICATION(S)