

Pre-Demolition Asbestos and Lead Survey Report

Sheriff EVOC Asphalt & Lighting Replacement Project

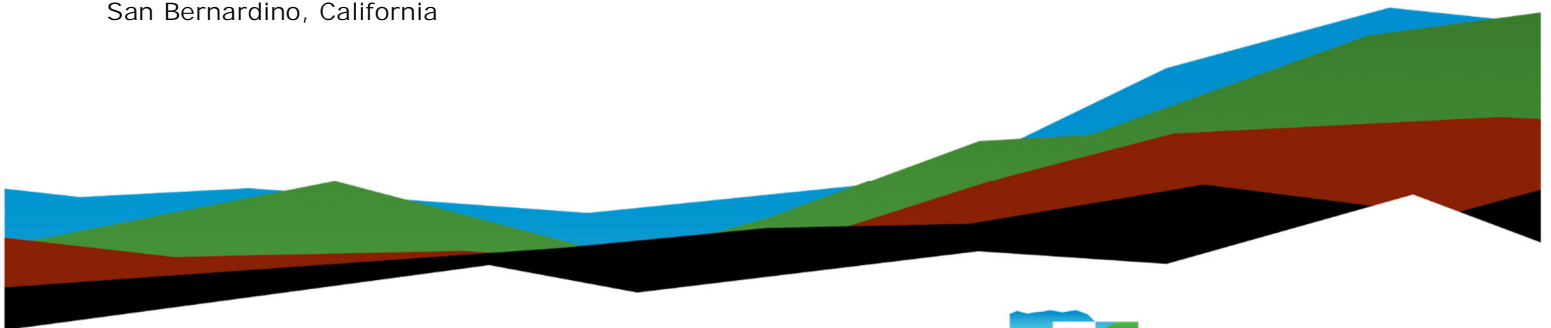
18958 Institution Road

Devore, California

August 28, 2023 | Terracon Project Number: LA237528

Prepared for:

County of San Bernardino
San Bernardino, California



Nationwide
[Terracon.com](https://www.terracon.com)

- Facilities
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Colton, CA 92324
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August 28, 2023

County of San Bernardino CA
385 North Arrowhead Avenue, 2nd Floor
San Bernardino, California 92415

Attn: Ms. Elsy J. Banks
Project & Facilities Management Department
Project Manager III
P: (909) 677-7950
E Elsy.Banks@res.sbcounty.com

RE: Pre-Demolition Asbestos and Lead Survey Report
Sheriff EVOC Asphalt & Lighting Replacement Project
18958 Institution Road
Devore, San Bernardino, California 92407
Terracon Project Number: LA237528

Dear Ms. Banks:

Terracon Consultants, Inc. (Terracon) is pleased to present the findings of the pre-demolition asbestos and lead survey performed on August 10, 2023, at the above referenced Property. The inspection was conducted in general accordance with Terracon Proposal No. PLA237528, dated July 24, 2023.

Terracon appreciates the opportunity to provide this service to County of San Bernardino. If you have any questions regarding this report, please contact Mark Korte in our Laguna Hills, California office at 949.383.1977.

Sincerely,
Terracon Consultants, Inc.

A handwritten signature in black ink, appearing to be "Mark Korte".

Mark Korte, CAC, CDPH Lead I/A
Project Manager

A handwritten signature in black ink, appearing to be "Chris Blake".

Chris Blake
Senior Project Manager

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1.0 Introduction

Terracon Consultants, Inc. (Terracon) conducted a pre-demolition asbestos and lead survey of the asphalt parking and light poles located at 18958 Institution Road in Devore, San Bernardino County, California. The inspection and sampling activities were conducted on August 10, 2023, by a California Division of Occupational Safety and Health (DOSH) Certified Site Surveillance Technician (CSST) and California Department of Public Health (CDPH) Lead Sampling Technician.

The inspection objective was to evaluate building materials for potential asbestos and lead content prior to the planned demolition and replacement of lights in the parking lot of the subject facility.

2.0 Building Description

The subject property consists of an exterior parking lot and exterior lighting. The land is improved with landscaping, concrete paved parking, and utilities.

3.0 Field Activities

The inspection was conducted August 10, 2023, by Mr. Nik Potenza, a DOSH CSST and a CDPH Lead Sampling Technician. Inspection activities were supervised by Mr. Mark Korte, a DOSH CAC and CDPH Lead Inspector/Assessor. All pertinent certifications and licenses are attached in Appendix D. A summary of the field activities is described below.

3.1 Visual Assessment

Asbestos

Terracon began the sampling activities with a visual assessment, identification and inventory of all homogeneous areas of suspect asbestos-containing materials (ACM). A homogeneous area consists of building materials that appear similar throughout in terms of color and texture. The assessment included all accessible interior and exterior areas of the buildings. Building materials identified as glass (includes fiberglass), wood, metal, and plastic were not considered suspect ACM.

Lead-Containing Materials

Inspection activities began with visual observations of painted surfaces to identify unique materials and applications throughout the subject areas.

3.2 Physical Assessment

Asbestos

A physical assessment of each homogeneous area of suspect ACM was conducted to determine the friability and condition of the material. A friable material is defined by the U.S. Environmental Protection Agency (EPA) as a material which can be crumbled, pulverized or reduced to powder by hand pressure when dry. Friability was determined via tactile assessment.

Lead-Containing Materials

Lead paint chip samples were collected to comply with DOSH regulations (Title 8 CCR 1532.1 – Lead Exposure in Construction) for the proposed renovation activities. Suspect lead-containing materials were sampled to identify potential worker exposure and disposal restrictions.

3.3 Sample Collection and Analysis

Asbestos

Based on results of the visual observation, bulk samples of suspect ACM were collected in general accordance with Asbestos Hazard Emergency Response Act (AHERA) sampling protocols. Random samples of suspect materials were collected in each homogeneous area. Suspect asbestos-containing materials were collected using wet methods, where applicable, to reduce the potential for fiber release. Samples were placed in sealable containers and labeled with unique sample numbers.

Terracon collected twenty-five (25) samples from seven (7) homogeneous areas. Samples of suspect ACM were delivered under chain-of-custody protocol to Eurofins EPK Built Environmental Testing, LLC (Eurofins) in Tustin, California. Eurofins is a laboratory accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) under the National Institute of Standards and Technology (NIST) for analysis by polarized light microscopy (PLM). The asbestos inspection sample summary can be found in Appendix A. Laboratory analytical reports are included in Appendix B. The sampling locations are provided in Appendix C.

Lead-Containing Materials

Six (6) paint chip samples were collected for lead analysis. The samples were delivered under chain-of-custody to Eurofins in Tustin, California. The paint samples were analyzed by Flame Atomic Absorption (Flame AA) in accordance with EPA Method 7000B. The lead inspection sample summary can be found in Appendix A. Laboratory analytical reports are included in Appendix B. The sampling locations are provided in Appendix C.

4.0 Regulatory Overview

Asbestos

As a consequence of the health hazard from inhalation of asbestos fibers, a body of federal and state regulations has been developed. Federal regulations pertaining to asbestos are included in AHERA (US EPA 40 CFR 763); National Emission Standard for Hazardous Air Pollutants (NESHAP [EPA 40 CFR 61]); Occupational Safety & Health Administration (OSHA) Asbestos Standards (29 CFR 1910.1001 and 29 CFR 1926.1101), and the Asbestos School Hazard Abatement Reauthorization Act (ASHARA). Many states have additional requirements including state-specific licensing and certification. In California, these regulations include, but are not limited to: Cal/OSHA in Title 8, Sections 1529 and 5208 and the South Coast Air Quality Management District (SCAQMD) Rule 1403.

The federal asbestos NESHAP standard (40 CFR Part 61, Subpart M) regulates asbestos fiber emissions and asbestos waste disposal practices. NESHAP also requires the identification and classification of asbestos removal in the SCAQMD. Under NESHAP, ACMs are classified as either friable, Category I non-friable or Category II non-friable ACM.

Friable materials are those that, when dry, may be crumbled, pulverized, or reduced to powder by hand pressure. Category I non-friable ACM includes packings, gaskets, resilient floor coverings and asphalt roofing products containing more than 1% asbestos. Category II non-friable ACM are any materials other than Category I materials that contain more than 1% asbestos.

Friable ACM, along with Category I and Category II non-friable ACM, which is in poor condition and has become friable or which will be subjected to drilling, sanding, grinding, cutting, or abrading and which could be crushed or pulverized during anticipated renovation or demolition activities are considered regulated ACM (RACM). Building materials confirmed to be ACM through the collection of bulk sampling and subsequent laboratory analysis, or presumed ACM, must be removed prior to intentional disturbance during planned renovation/demolition activities. Asbestos abatement must be conducted by Cal/OSHA-accredited asbestos abatement contractors. Third-party air monitoring should be conducted during the abatement activities.

Cal/OSHA requires that only properly licensed and certified asbestos abatement contractors are allowed to remove ACM. As per NESHAP, all RACM shall be removed from a facility being demolished or renovated before any non-burning demolition or renovation begins that would break up, dislodge, or similarly disturb the material or preclude access to the material for subsequent removal. According to SCAQMD, if more than 100 square feet of any ACM is to be stripped, removed, dislodged, cut, drilled, or similarly disturbed, or for any demolition, the asbestos abatement contractor or facility owner must submit an Asbestos Notification of Demolition and Renovation form to SCAQMD along with the appropriate fees within at least ten (10) working days prior to the scheduled asbestos removal activity or demolition start date. Planned renovations that do not meet the definition of 'demolition or renovation of a facility' per SCAQMD and where no ACM exists do not require notification to SCAQMD.

The federal OSHA Asbestos standard for construction (29 CFR 1926.1101) and the Cal/OSHA asbestos standard for general industry and the construction industry (CCR Title 8, Sections 5208

and 1529, respectively) regulate workplace exposure to asbestos. Both the federal OSHA and Cal/OSHA standards require that employee exposure to airborne asbestos fibers be maintained below 0.1 asbestos fibers per cubic centimeter of air (0.1 f/cc) as an eight-hour time weighted average (TWA). The federal OSHA and Cal/OSHA standards classifies construction and maintenance activities which could disturb ACM and specifies work practices and precautions which employers must follow when engaging in each class of regulated work. However, workers who deliberately disturb any amount of asbestos should have pertinent training and wear proper personal protective equipment according to federal and state regulatory requirements (i.e., Cal/OSHA 8 CCR 1529 (g) (1) through (9) for Class I, II and III work).

Asbestos-containing construction materials (ACCM) is a term developed by Cal/OSHA out of concern for non-hazardous building materials used inside and outside a building that contain less than 1% asbestos. The definition of ACCM includes any manufactured building material that has more than one-tenth of 1% (>0.1%) asbestos content. The SCAQMD requires point counting of friable samples of ACM at concentrations of less than 10% to determine more accurately the content of asbestos and proper classification of the material for proper abatement and disposal requirements. Alternatively, materials may be presumed as ACMs. If the material is less than one tenth of 1%, the material is not regulated by the EPA however Cal/OSHA worker protection regulations apply if any asbestos is detected.

Lead

The Resource Conservation and Recovery Act (RCRA) gave the EPA authority to regulate the waste status of demolition and renovation debris, including lead-containing materials. Specific notification and testing requirements must be addressed prior to transporting, treating, storing, or disposing of hazardous wastes. Lead containing wastes are considered hazardous waste under RCRA if Toxicity Characteristic Leaching Procedure (TCLP) results exceed 5 milligrams per liter (mg/L). EPA exempts from most RCRA requirements those generators whose combined hazardous waste generation is less than 100 kilograms (kg) per month.

Detectable lead quantities may constitute a lead dust hazard during renovation/demolition activities. Personnel performing renovation/demolition activities that may disturb painted components with concentrations of lead above the designated analytical detection limit should comply with all current OSHA regulations in order to minimize employee exposure. OSHA regulates construction activities that disturb lead-containing material regardless of the concentration. Currently, any proposed renovation/demolition is subject to the OSHA regulations (29 CFR 1926.62 – Lead Exposure in Construction).

In California, the lead standard was adopted by DOSH as Title 8 CCR, Section 1532.1 (Occupational Lead Poisoning Prevention Program). The California Department of Public Health also regulates accreditations, certifications and work practices for activities involving lead-containing materials under Title 17 CCR. The federal and DOSH regulations define specific training requirements, engineering controls and working practices for construction personnel subject to this standard. Occupational exposure to lead occurring in the course of construction work, including maintenance activities, painting, alteration and repairs is subject to the OSHA Lead Exposure in Construction standard.

Contractors and employers are required to comply with 29 CFR 1926.62 and Title 8 CCR 1532.1. Construction work covered by federal and DOSH standards includes any repair or renovation activities or other activities that disturb in-place lead-containing materials. Employers must assure that no employee will be exposed to lead at concentrations greater than 50 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$) averaged over an eight-hour period without adequate protection. The Federal and California OSHA Standards also establish an action level of 30 $\mu\text{g}/\text{m}^3$, which if exceeded, triggers the requirement for medical monitoring.

5.0 Findings

Based on the results of laboratory analysis, asbestos was not detected in any of the homogeneous areas sampled.

Please refer to the Asbestos Sample Summary in Appendix A for a summary of all materials collected and sample locations. The asbestos lab results and chain of custody forms for the suspect asbestos samples can be found in Appendix B.

Should suspect materials other than those which were identified during this inspection be uncovered prior to or during the demolition, those materials should be assumed asbestos-containing until sampling and analysis can confirm or refute asbestos content.

Lead

Based on the results of laboratory analysis, three (3) of the six (6) sampled paint samples contain lead above the laboratory limit of detection, but below the regulatory definition of lead-based paint of 5,000 parts per million (ppm).

The lead lab results and chain of custody forms for the suspect lead paint samples can be found in Appendix B.

6.0 General Comments

This limited asbestos and lead inspection was conducted in a manner consistent with the level of care and skill ordinarily exercised by members of the profession currently practicing under similar conditions in the same locale. The results, findings, conclusions, and recommendations expressed in this report are based on conditions observed during our inspection. This report has been prepared on behalf of and exclusively for use by County of San Bernardino for specific application to their project as discussed. This report is not a biddable document.

APPENDIX A

ASBESTOS AND LEAD SAMPLE SUMMARY

APPENDIX A

Sheriff EVOC Asphalt & Lighting Replacement Project
 18958 Institution Road
 Devore, San Bernardino County, California 92407

ASBESTOS SURVEY SAMPLE LOCATION SUMMARY

HA	Sample No.	Description	Sample Location	Result
1	MS5-01	Asphalt	City Roads - Center	ND
	MS5-02	Asphalt	City Roads - Southwest	ND
	MS5-03	Asphalt	Out of Service Area - Center	ND
	MS5-04	Asphalt	Highway - Northeast	ND
	MS5-05	Asphalt	Highway - Center	ND
	MS5-06	Asphalt	Patrol Car Lot - Center	ND
	MS5-07	Asphalt	Office Lot - Center	ND
2	MS5-08	Asphalt Slurry Patch	Office Lot - Center	ND
	MS5-09	Asphalt Slurry Patch	City Roads	ND
	MS5-10	Asphalt Slurry Patch	Highway	ND
3	MG5-11	Black Mastic under Street Reflectors	Highway	ND
	MG5-12	Black Mastic under Street Reflectors	Highway	ND
	MG5-13	Black Mastic under Street Reflectors	Highway	ND
4	MA5-14	Concrete Gutter	Out of Service Area	ND
	MA5-15	Concrete Gutter	Out of Service Area	ND
	MA5-16	Concrete Gutter	Out of Service Area	ND
5	MA5-17	Concrete Curb	Office Lot	ND
	MA5-18	Concrete Curb	Office Lot	ND
	MA5-19	Concrete Curb	Office Lot	ND
6	MA5-20	Concrete Light Pole Base	Highway - Northeast	ND
	MA5-21	Concrete Light Pole Base	Highway - Southwest	ND
	MA5-22	Concrete Light Pole Base	City Roads Center	ND
7	MA3-23	Mortar around Rock Curbs	Office Lot	ND
	MA3-24	Mortar around Rock Curbs	Office Lot	ND
	MA3-25	Mortar around Rock Curbs	Highway - Southwest	ND

Legend:
 ND - None Detected
 CH - Chrysotile

APPENDIX A

Sheriff EVOC Asphalt & Lighting Replacement Project
18958 Institution Road
Devore, San Bernardino County, California 92407

LEAD SURVEY SAMPLE SUMMARY

Sample No.	Description	Sample Location	Condition	Result (ppm)
PB-01	Red Paint on Concrete	Office Lot - Concrete Curb	Intact	61
PB-02	White Paint on Asphalt	City Roads - Center	Intact	< 40
PB-03	Yellow Paint on Asphalt	City Roads - Center	Intact	< 39
PB-04	Yellow Paint on Concrete	Office Lot - Concrete Curb	Fair	47
PB-05	Red Paint on Asphalt	Out of Service Area	Intact	< 41
PB-06	Blue Paint on Asphalt	Office Lot	Intact	49

< - Below the Laboratory Limit of Detection

APPENDIX B

LABORATORY ANALYTICAL REPORTS

Report for:

Chris Blake, Mark Korte, Danish Mansoor
Terracon Consultants, Inc. - Tustin, CA
23041 Avenida De La Carlota
Suite 350
Laguna Hills, CA 92653

Regarding: Eurofins EPK Built Environment Testing, LLC
Project: LA237528; 18958 Institution Rd San Bernardino
EML ID: 3348640

Approved by:



Approved Signatory
Danny Li

Dates of Analysis:
Asbestos PLM: 08-14-2023

Service SOPs: Asbestos PLM (EPA 40CFR App E to Sub E of Part 763 & EPA METHOD 600/R-93-116, SOP EM-AS-S-1267)
NVLAP Lab Code 200757-0

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

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

Client: Terracon Consultants, Inc. - Tustin, CA
 C/O: Chris Blake, Mark Korte, Danish Mansoor Date of Receipt: 08-10-2023
 Re: LA237528; 18958 Institution Rd San Bernardino Date of Report: 08-15-2023

ASBESTOS PLM REPORT

Total Samples Submitted:	25
Total Samples Analyzed:	25
Total Samples with Layer Asbestos Content > 1%:	0

Location: MS5-01, Asphalt, City Roads-Center

Lab ID-Version‡: 16275673-1

Sample Layers	Asbestos Content
Black Asphalt	ND
Sample Composite Homogeneity:	Good

Location: MS5-02, Asphalt, City Roads S/W

Lab ID-Version‡: 16275674-1

Sample Layers	Asbestos Content
Black Asphalt	ND
Sample Composite Homogeneity:	Good

Location: MS5-03, Asphalt, Out of Service-Center

Lab ID-Version‡: 16275675-1

Sample Layers	Asbestos Content
Black Asphalt	ND
Sample Composite Homogeneity:	Good

Location: MS5-04, Asphalt, Highway-N/E

Lab ID-Version‡: 16275676-1

Sample Layers	Asbestos Content
Black Asphalt	ND
Sample Composite Homogeneity:	Good

Location: MS5-05, Asphalt, Highway-Center

Lab ID-Version‡: 16275677-1

Sample Layers	Asbestos Content
Black Asphalt	ND
Sample Composite Homogeneity:	Good

The test report shall not be reproduced except in full, without written approval of the laboratory. The 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. The Company 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.

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.

‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Client: Terracon Consultants, Inc. - Tustin, CA

C/O: Chris Blake, Mark Korte, Danish Mansoor

Date of Receipt: 08-10-2023

Re: LA237528; 18958 Institution Rd San Bernardino

Date of Report: 08-15-2023

ASBESTOS PLM REPORT

Location: MS5-06, Asphalt, Patrol Car Lot-Center

Lab ID-Version‡: 16275678-1

Sample Layers	Asbestos Content
Black Asphalt	ND
Sample Composite Homogeneity: Good	

Location: MS5-07, Asphalt, Office Lot-Center

Lab ID-Version‡: 16275679-1

Sample Layers	Asbestos Content
Black Asphalt	ND
Sample Composite Homogeneity: Good	

Location: MS5-08, Asphalt Slurry Patch, Office Lot-Center

Lab ID-Version‡: 16275680-1

Sample Layers	Asbestos Content
Black Asphalt	ND
Sample Composite Homogeneity: Good	

Location: MS5-09, Asphalt Slurry Patch, City Roads

Lab ID-Version‡: 16275681-1

Sample Layers	Asbestos Content
Black Asphalt	ND
Sample Composite Homogeneity: Good	

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Re: LA237528; 18958 Institution Rd San Bernardino

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ASBESTOS PLM REPORT

Location: MS5-10, Asphalt Slurry Patch, Highway

Lab ID-Version‡: 16275682-1

Sample Layers	Asbestos Content
Black Asphalt	ND
Sample Composite Homogeneity: Good	

Location: MG5-11, Black Mastic Under Street Reflectors, Highway

Lab ID-Version‡: 16275683-1

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

Location: MG5-12, Black Mastic Under Street Reflectors, Highway

Lab ID-Version‡: 16275684-1

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

Location: MG5-13, Black Mastic Under Street Reflectors, Highway

Lab ID-Version‡: 16275685-1

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

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ASBESTOS PLM REPORT

Location: MA5-14, Concrete Gutter, Out of Service Area

Lab ID-Version‡: 16275686-1

Sample Layers	Asbestos Content
Gray Concrete	ND
Composite Non-Asbestos Content:	< 1% Cellulose
Sample Composite Homogeneity:	Good

Location: MA5-15, Concrete Gutter, Out of Service Area

Lab ID-Version‡: 16275687-1

Sample Layers	Asbestos Content
Gray Concrete	ND
Composite Non-Asbestos Content:	< 1% Cellulose
Sample Composite Homogeneity:	Good

Location: MA5-16, Concrete Gutter, Out of Service Area

Lab ID-Version‡: 16275688-1

Sample Layers	Asbestos Content
Gray Concrete	ND
Composite Non-Asbestos Content:	< 1% Cellulose
Sample Composite Homogeneity:	Good

Location: MA5-17, Concrete Curb, Office Lot

Lab ID-Version‡: 16275689-1

Sample Layers	Asbestos Content
Gray Concrete	ND
Composite Non-Asbestos Content:	< 1% Cellulose
Sample Composite Homogeneity:	Good

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ASBESTOS PLM REPORT

Location: MA5-18, Concrete Curb, Office Lot

Lab ID-Version‡: 16275690-1

Sample Layers	Asbestos Content
Gray Concrete	ND
Composite Non-Asbestos Content:	< 1% Cellulose
Sample Composite Homogeneity:	Good

Location: MA5-19, Concrete Curb, Office Lot

Lab ID-Version‡: 16275691-1

Sample Layers	Asbestos Content
Gray Concrete	ND
Composite Non-Asbestos Content:	< 1% Cellulose
Sample Composite Homogeneity:	Good

Location: MA5-20, Concrete Light Pole Base, Highway N/E

Lab ID-Version‡: 16275692-1

Sample Layers	Asbestos Content
Gray Concrete	ND
Composite Non-Asbestos Content:	< 1% Cellulose
Sample Composite Homogeneity:	Good

Location: MA5-21, Concrete Light Pole Base, Highway S/W

Lab ID-Version‡: 16275693-1

Sample Layers	Asbestos Content
Gray Concrete	ND
Composite Non-Asbestos Content:	< 1% Cellulose
Sample Composite Homogeneity:	Good

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Date of Report: 08-15-2023

ASBESTOS PLM REPORT

Location: MA5-22, Concrete Light Pole Base, City Roads Center

Lab ID-Version‡: 16275694-1

Sample Layers	Asbestos Content
Gray Concrete	ND
Composite Non-Asbestos Content:	< 1% Cellulose
Sample Composite Homogeneity:	Good

Location: MA3-23, Mortar Around Rock Curbs, Office Lot

Lab ID-Version‡: 16275695-1

Sample Layers	Asbestos Content
Gray Mortar	ND
Sample Composite Homogeneity:	Good

Location: MA3-24, Mortar Around Rock Curbs, Office Lot

Lab ID-Version‡: 16275696-1

Sample Layers	Asbestos Content
Gray Mortar	ND
Sample Composite Homogeneity:	Good

Location: MA3-25, Mortar Around Rock Curbs, Highway S/W

Lab ID-Version‡: 16275697-1

Sample Layers	Asbestos Content
Gray Mortar	ND
Sample Composite Homogeneity:	Good

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ASBESTOS CHAIN OF CUSTODY

PLM EPA 600/R-93/116

Southern California Metro
Los Angeles County - Orange County - San Diego County - Inland Empire

DATE: 8/10/23

EMAIL RESULTS TO: Danish.Mansoor@terracon.com, Mark.Korte@terracon.com, Chris.Blake@terracon.com
 David.Block@terracon.com, Denise.Wallen@terracon.com
 Other: _____

Inspector: Nik Potenza

Client/Project Name: County of SB Exterior Lots

Project Number: LA237528

Address: 18958 Intitution Rd

San Bernardino 92407

TURN-AROUND TIME: 3 Hours 6 Hour 24 Hours 48 Hours 72 Hours 1 Week

Laboratory: _____

H.A.	SAMPLE NUMBER	MATERIAL DESCRIPTION	SAMPLE LOCATION	SQUARE FEET	CONDITION (G / D / SD)
1	MSS-01	Asphalt	City Roads - center		G
	02		S/W		
	03		Brea NP out of Service - center		
	04		Highway - N/E		
	05		center		
	06		Patrol car lot - center		
	07		office lot - center		
2	08	Asphalt Slurry Patch			
	09		City Roads		
	10		Highway		
3	MGS-11	Black Mastic under street reflectors			
	12				
	13				



NOTES:

Relinquished By: Nik Potenza Signature: [Signature]

Date / Time: 8/10/23 1443

Received By: [Signature] Signature: [Signature]

Date / Time: 8/10/23 3pm

LAB ID NO:

Report for:

Mark Korte
Terracon Consultants, Inc. - Tustin, CA
23041 Avenida De La Carlota
Suite 350
Laguna Hills, CA 92653

Regarding: Eurofins EPK Built Environment Testing, LLC
Project: LA237528; County of SB/18958 Institution Rd, San Bernardino
EML ID: 3348643

Approved by:



Laboratory Manager
Danny Li

Dates of Analysis:

Lead - Flame AA: 08-15-2023

Service SOPs: Lead - Flame AA (EM-BC-S-8443)
AIHA-LAP, LLC accredited service, Lab ID #178697

All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. Due to the nature of the analyses performed, field blank correction of results is not applied. The results relate only to the samples as received and tested. Sample size, as it relates to Wipe samples only, is supplied by the client.

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

Eurofins EPK Built Environment Testing, LLC's LabServe® reporting system includes automated fail-safes to ensure that all AIHA-LAP, LLC quality requirements are met and notifications are added to reports when any quality steps remain pending.

Eurofins EPK Built Environment Testing, LLC

2841 Dow Avenue, Suite 300, Tustin, CA 92780

(800) 651-4802 www.eurofinsus.com/Built

Client: Terracon Consultants, Inc. - Tustin, CA

C/O: Mark Korte

Re: LA237528; County of SB/18958 Institution Rd,
San Bernardino

Date of Sampling: 08-10-2023

Date of Receipt: 08-10-2023

Date of Report: 08-15-2023

LEAD: FLAME ATOMIC ABSORPTION SPECTROMETRY

Location:	Pb-01: Red Paint on Concrete Curb-Office Lot	Pb-02: White Paint on Asphalt- City Roads Center	Pb-03: Yellow Paint on Asphalt- City Roads Center
Comments (see below)	A	A	A
Lab ID-Version‡:	16275723-1	16275724-1	16275725-1
Analysis Date:	08/15/2023	08/15/2023	08/15/2023
Sample type	Paint Chip sample	Paint Chip sample	Paint Chip sample
Method*	NIOSH 7082 & EPA 7000B modified	NIOSH 7082 & EPA 7000B modified	NIOSH 7082 & EPA 7000B modified
† Method Reporting Limit	40 ppm	40 ppm	39 ppm
Sample size	0.2503 grams	0.2483 grams	0.2596 grams
§ Total Lead Result	61 ppm	< 40 ppm	< 39 ppm

Comments: A) The relative percent difference of the matrix duplicate pair was above control limits. The laboratory control sample and matrix blank were both within control limits and validated the batch.

Sample results have not been corrected for blank values.

Bulk samples are not covered under the AIHA-LAP, LLC service accreditation.

Wipe samples must meet ASTM E1792 criteria. Method Reporting Limits may not be valid for non-ASTM E1792 wipe samples.

*Sample preparation and analytical methods are based upon NIOSH 7082 and EPA 7000B.

† The Method Reporting Limit is the minimum concentration of Lead that the laboratory can confidently detect in the sample.

§ Total Lead Result has been rounded to two significant figures to reflect analytical precision.

‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Eurofins EPK Built Environment Testing, LLC

2841 Dow Avenue, Suite 300, Tustin, CA 92780

(800) 651-4802 www.eurofinsus.com/Built

Client: Terracon Consultants, Inc. - Tustin, CA

C/O: Mark Korte

Re: LA237528; County of SB/18958 Institution Rd,
San Bernardino

Date of Sampling: 08-10-2023

Date of Receipt: 08-10-2023

Date of Report: 08-15-2023

LEAD: FLAME ATOMIC ABSORPTION SPECTROMETRY

Location:	Pb-04: Yellow Concrete Curb- Office Lot	Pb-05: Red Paint on Asphalt-Out of Service Area	Pb-06: Blue Paint on Asphalt- Office Lot
Comments (see below)	A	A	A
Lab ID-Version‡:	16275726-1	16275727-1	16275728-1
Analysis Date:	08/15/2023	08/15/2023	08/15/2023
Sample type	Paint Chip sample	Paint Chip sample	Paint Chip sample
Method*	NIOSH 7082 & EPA 7000B modified	NIOSH 7082 & EPA 7000B modified	NIOSH 7082 & EPA 7000B modified
† Method Reporting Limit	40 ppm	41 ppm	39 ppm
Sample size	0.2477 grams	0.2424 grams	0.2561 grams
§ Total Lead Result	47 ppm	< 41 ppm	49 ppm

Comments: A) The relative percent difference of the matrix duplicate pair was above control limits. The laboratory control sample and matrix blank were both within control limits and validated the batch.

Sample results have not been corrected for blank values.

Bulk samples are not covered under the AIHA-LAP, LLC service accreditation.

Wipe samples must meet ASTM E1792 criteria. Method Reporting Limits may not be valid for non-ASTM E1792 wipe samples.

*Sample preparation and analytical methods are based upon NIOSH 7082 and EPA 7000B.

‡ The Method Reporting Limit is the minimum concentration of Lead that the laboratory can confidently detect in the sample.

§ Total Lead Result has been rounded to two significant figures to reflect analytical precision.

‡ A "Version" indicated by -"x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".



1421 Edinger Avenue, Suite C
Edinger, California 92780

Lead (Pb) Chain of Custody



003348643

Project Name/Address: County of SB / 18958 Intitution Rd, San Bernardino 92407

Project #: LA237528 Sampled By: Nik Potenza Sampling Date: 8/10/23

Laboratory: EMSL/LA Testing EM Lab Other: _____ Email Report to: Danish.Mansoor@Terracon.com & Charles.Yoon@Terracon.com
 Mike.Benefield@Terracon.com & Denise.Wallen@Terracon.com

Turnaround Time: 3 Hour 6 Hour 24 Hour 48 Hour 72 Hour 1 Week Other: Mark. Icorde@Terracon.com

Analysis: Paint Chips (% by weight and ppm) SW846-7000B/7420 Air Sample NIOSH 7082 FAA Air Sample NIOSH 7303 ICP

Wipes SW846-1311/7000B/7420 FAA Wipes SW846-6010B/C ICP TCLP TTLC STLC Other _____

Sample I.D. #	Sample Location	Volume/Area	Condition (Good/Fair/Poor)
Pb-01	Red Paint on concrete curb - office lot		
02	White Paint on Asphalt - City roads center		
03	Yellow Paint on asphalt -		
04	└ concrete curb - office lot		
05	Red Paint on Asphalt - Out of service Area		
06	Blue Paint on Asphalt - office lot		

Relinquished: Name: Nik Potenza Signature: [Signature] Date: 8/10/23 1443

Received: Name: [Signature] Signature: [Signature] Date: 8/10/23 3pm

APPENDIX C

SAMPLE LOCATION DRAWINGS

LEGEND

Asbestos Samples

Lead Samples



Sample Location Drawing

Prepared for: County of San Bernardino
Project: Pre-Renovation Asbestos & Lead Survey
Scale: Not to Scale
Terracon Project Number: LA237528



Exterior Lots

County of SB Exterior Lots
18958 Institution Road
San Bernardino, CA 92407

Exhibit

1

APPENDIX D

LICENSES AND CERTIFICATIONS

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

Nikolas J Potenza

Name

Certification No. 21-6930

Expires on 11/19/23



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.



STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC HEALTH



LEAD-RELATED CONSTRUCTION CERTIFICATE

INDIVIDUAL:



Nikolas Potenza

CERTIFICATE TYPE:

Lead Sampling Technician

NUMBER:

LRC-00009206

EXPIRATION DATE:

9/17/2023

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
Division of Occupational Safety and Health
Certified Asbestos Consultant



Mark A Korte
Name

Certification No. **19-6503**

Expires on **05/15/24**

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.

LEAD-RELATED CONSTRUCTION CERTIFICATE

INDIVIDUAL:



Mark Korte

CERTIFICATE TYPE:

Lead Inspector/Assessor

NUMBER:

LRC-00008357

EXPIRATION DATE:

3/5/2024

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