



ENTEK CONSULTING GROUP, INC.

4200 Rocklin Road, Suite 7, Rocklin, CA 95677 Telephone (916) 632-6800 Fax (916) 632-6812 www.entekgroup.com

May 4, 2016

Mr. Karl Kurka
Environmental Program Manager
City of Sacramento, Department of Public Works
915 I Street, 2nd Floor
Sacramento, CA 95814

Re: Mangan Park & Mangan Rifle and Pistol Range, 2140 34th Avenue; Sacramento, CA 95822-3157; Report of Assessment for Lead

Dear Mr Kurka:

This report presents results of a limited lead risk assessment by Entek Consulting Group, Inc. (Entek) at the Mangan Rifle and Pistol Range located at the above address in Sacramento. You requested our assistance in assessing potential lead dust levels on exterior sidewalk, road, and parking lot surfaces. You also requested assessment of lead in near surface soil at a distance of ten to fifteen feet from the exterior walls of the range building.

The lead assessment by Entek was limited in scope, and only included surface dust sampling of exterior concrete and asphalt surfaces and surface soil sampling surrounding the range building to determine lead loading on various surfaces and in surface soil composition. This investigation did not include lead in paint assessment or lead-based paint inspection of painted components associated with the building or testing of water at the facility.

Lead Risk Assessment

Lead hazards or "lead-contaminated dust" is defined by the California Department of Public Health (CDPH) Title 17 as dust that "contains an amount of lead equal to, or in excess of: (a) forty micrograms per square foot (40 ug/ft²) for interior floor surfaces; or (b) two hundred and fifty micrograms per square foot (250 ug/ft²) for interior horizontal surfaces; or (c) four hundred micrograms per square foot (400 ug/ft²) for exterior floor and exterior horizontal surfaces".

In addition, lead hazards in soil have been identified as lead equal to or in excess of 400 ppm in children's play areas, and 1,000 ppm in all other areas by the CDPH. The Department of Toxic Substances Control (DTSC) has screening levels for lead in soil defined as eighty milligrams per kilogram (80 mg/kg) for residential land use and three hundred and twenty milligrams per kilogram (320 mg/kg) for commercial and industrial land use. Parts per million and milligrams per kilogram are an equivalent measurement unit.

This limited lead risk assessment was conducted on April 28, 2016 by Mr. Blake Howes, a CDPH certified Lead Inspector/Assessor to evaluate lead hazards associated with lead dust on surfaces and in near surface soil composition. The lead risk assessment included collection of wipe samples of exterior sidewalk, parking lot, and road surfaces on the north and south side of 34th Avenue and in the south parking lot of the range building. Entek collected a total of 26 bulk samples of dust from these concrete and asphalt surfaces.

Generally speaking, surface wipe samples were collected from 50-foot increments along the sidewalks located on the north and south side of 34th Avenue. These increments were measured from the Mangan Rifle & Pistol Range main entry walkway. Samples were collected up to approximately 250-feet east and west of the entry walkway on the south side of 34th Avenue and up to approximately 200-feet east and west on the north side.

Surface wipe samples were collected using Ghost Wipe samples meeting the ASTM E 1792 materials for collection and analysis of wipe samples for lead. One blank Ghost Wipe sample was submitted for analysis in addition to the 26 samples collected at the project site.



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A total of 6 soil samples were collected from various locations surrounding the range building. These samples were taken primarily to determine if the placement of chain link fence around the range building was at a sufficient distance to limit access to areas of lead contaminated soil. These samples were collected at a distance of 10 to 15 feet from the exterior walls of the range building. Soil samples were obtained from the top one inch of surface soil in all locations.

All samples were delivered to Forensic Analytical Laboratories, Inc. (FALI) located in Hayward, California and were analyzed by flame atomic absorption spectroscopy (AAS). FALI is certified by the State of California Department of Public Health Environmental Laboratory Accreditation Program to analyze these types of samples and is accredited by the Environmental Lead Laboratory Accreditation Program (ELLAP) administered by the American Industrial Hygiene Associations (AIHA).

Observations

The City of Sacramento has installed a chain link fence around the Mangan Park Rifle & Pistol Range Building. This fence is set up along the concrete sidewalk on the north side of the building, along the south parking lot access road on the east side of the building, along the south parking lot access road and through the south parking lot on the south side of the building, and approximately 15 feet from the edge of the exterior building wall on the west side of the building. Please see attached sampling location diagram for a visual representation of the fence location.

This fence prevents any access to areas of dirt or grass within approximately 20 feet of the building on the north, east, and south sides of the structure and 15 feet on the west side.

Sampling Methods

Bulk samples were collected using Ghost Wipe sample media to collect the surface dust from each sample component. New nitrile gloves were worn for each sample and discarded after collection of each sample to minimize contamination of the samples. One square foot of surface was sampled. A pre-cut paper template 12" x 12" in size was secured to the surface to be tested and the interior of the template opening surface area was wiped with the Ghost Wipe horizontally, and vertically, after folding inward the used portion of the Ghost Wipe. Samples were placed into a plastic centrifuge container, sealed and labeled with a unique sample identification number. All sample locations, size of the sample, and surface components sampled are included in the chain of custody forms, which are attached to this report.

Surface soil samples were collected using pre-washed plastic spoons that were disposed of after each sample was collected. New nitrile gloves were worn for each sample and discarded after collection of each sample to minimize contamination of the samples. Each sample was placed into a plastic centrifuge container, sealed and labeled with a unique sample identification number. All sample locations, including latitude and longitude, are included in the chain of custody forms, which are attached to this report.

All wipe samples were analyzed for lead by the NIOSH 9100/7082 method by FALI with results reported in micrograms per square foot ($\mu\text{g}/\text{ft}^2$). All soil samples were analyzed for lead by the EPA 3050B/7420 method by FALI with results reported in milligrams per kilogram (mg/kg). Mg/kg is an equivalent measurement to parts per million. Results of laboratory analysis are presented in the following tables:



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Table 1: List of sample results for lead by surface wipe sampling. Results expressed in micrograms per square foot (ug/ft²).

Table 1 Lead Surface Wipe Samples		
Sample Number	Location of Wipe Sample	Results (ug/ft²)
ECG-16-3934-09Wipe	Lead Dust Wipe - Sidewalk on South Side of 34 th Avenue, Directly in Front of Mangan Rifle & Pistol Range Main Entry Walkway	930
ECG-16-3934-10Wipe	Lead Dust Wipe - ADA Access Ramp from North Parking Lot onto Sidewalk on South Side of 34 th Avenue, Directly in Front of Mangan Rifle & Pistol Range Main Entry Walkway	330
ECG-16-3934-11Wipe	Lead Dust Wipe - Sidewalk on South Side of 34 th Avenue, 50-feet East of Mangan Rifle & Pistol Range Main Entry Walkway	130
ECG-16-3934-12Wipe	Lead Dust Wipe - Access Road to South Parking Lot at North Parking Lot Entrance	31
ECG-16-3934-13Wipe	Lead Dust Wipe - Sidewalk on South Side of 34 th Avenue, 100-feet East of Mangan Rifle & Pistol Range Main Entry Walkway	21
ECG-16-3934-14Wipe	Lead Dust Wipe - Sidewalk on South Side of 34 th Avenue, 150-feet East of Mangan Rifle & Pistol Range Main Entry Walkway	16
ECG-16-3934-15Wipe	Lead Dust Wipe - Sidewalk on South Side of 34 th Avenue, 200-feet East of Mangan Rifle & Pistol Range Main Entry Walkway	8
ECG-16-3934-16Wipe	Lead Dust Wipe - Sidewalk on South Side of 34 th Avenue, 250-feet East of Mangan Rifle & Pistol Range Main Entry Walkway	< 8
ECG-16-3934-17Wipe	Lead Dust Wipe - Sidewalk on North Side of 34 th Avenue, Directly in Front of Mangan Rifle & Pistol Range Main Entry Walkway	13
ECG-16-3934-18Wipe	Lead Dust Wipe - Sidewalk on North Side of 34 th Avenue, 50-feet East of Mangan Rifle & Pistol Range Main Entry Walkway	35
ECG-16-3934-19Wipe	Lead Dust Wipe - Sidewalk on North Side of 34 th Avenue, 100-feet East of Mangan Rifle & Pistol Range Main Entry Walkway	10
ECG-16-3934-20Wipe	Lead Dust Wipe - Sidewalk on North Side of 34 th Avenue, 150-feet East of Mangan Rifle & Pistol Range Main Entry Walkway	< 8
ECG-16-3934-21Wipe	Lead Dust Wipe - Sidewalk on North Side of 34 th Avenue, 200-feet East of Mangan Rifle & Pistol Range Main Entry Walkway	< 8
ECG-16-3934-22Wipe	Lead Dust Wipe - Sidewalk on North Side of 34 th Avenue, 50-feet West of Mangan Rifle & Pistol Range Main Entry Walkway	< 8
ECG-16-3934-23Wipe	Lead Dust Wipe - Sidewalk on North Side of 34 th Avenue, 100-feet West of Mangan Rifle & Pistol Range Main Entry Walkway	< 8
ECG-16-3934-24Wipe	Lead Dust Wipe - Sidewalk on North Side of 34 th Avenue, 150-feet West of Mangan Rifle & Pistol Range Main Entry Walkway	9



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Table 1 (Continued) Lead Surface Wipe Samples		
Sample Number	Location of Wipe Sample	Results (ug/ft²)
ECG-16-3934-25Wipe	Lead Dust Wipe - Sidewalk on North Side of 34 th Avenue, 200-feet West of Mangan Rifle & Pistol Range Main Entry Walkway	21
ECG-16-3934-26Wipe	Lead Dust Wipe - Sidewalk on South Side of 34 th Avenue, 50-feet West of Mangan Rifle & Pistol Range Main Entry Walkway	68
ECG-16-3934-27Wipe	Lead Dust Wipe- Sidewalk on South Side of 34 th Avenue, 100-feet West of Mangan Rifle & Pistol Range Main Entry Walkway	11
ECG-16-3934-28Wipe	Lead Dust Wipe - Sidewalk on South Side of 34 th Avenue, 150-feet West of Mangan Rifle & Pistol Range Main Entry Walkway	< 8
ECG-16-3934-29Wipe	Lead Dust Wipe - Sidewalk on South Side of 34 th Avenue, 200-feet West of Mangan Rifle & Pistol Range Main Entry Walkway	< 8
ECG-16-3934-30Wipe	Lead Dust Wipe - Sidewalk on South Side of 34 th Avenue, 250-feet West of Mangan Rifle & Pistol Range Main Entry Walkway	< 8
ECG-16-3934-31Wipe	Lead Dust Wipe - South Parking Lot, West Side 35-feet from Exterior Wall of Mangan Rifle & Pistol Range	85
ECG-16-3934-32Wipe	Lead Dust Wipe - South Parking Lot, Center of Lot at Drainage Inlet	970
ECG-16-3934-33Wipe	Lead Dust Wipe - South Parking Lot, East Side 35-feet from Exterior Wall of Mangan Rifle & Pistol Range	870
ECG-16-3934-34Wipe	Lead Dust Wipe - South Parking Lot, Center 60-feet from Exterior Wall of Mangan Rifle & Pistol Range	180
ECG-16-3934-35Wipe	Blank Wipe	< 8



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Table 2: List of sample results for lead by surface soil sampling. Results expressed in milligrams per kilogram (mg/kg).

Table 2 Lead Surface Soil Samples			
Sample Number	Location of Bulk Sample	Coordinates	Results (mg/kg)
ECG-16-3934-12Soil	Lead Surface Soil Sample - North Side of Mangan Rifle & Pistol Range Building, 10-feet from Building Exterior Wall	38°31'18.3"N 121°29'26.6"W	360
ECG-16-3934-13Soil	Lead Surface Soil Sample - North Side of Mangan Rifle & Pistol Range Building at West End, 10-feet from Building Exterior Wall	38°31'18.1"N 121°29'27.2"W	220
ECG-16-3934-14Soil	Lead Surface Soil Sample - Southeast Side of Mangan Rifle & Pistol Range Building, 10-feet from Building Exterior Wall	38°31'17.5"N 121°29'25.9"W	300
ECG-16-3934-15Soil	Lead Surface Soil Sample - East Side of Mangan Rifle & Pistol Range Building, East Side of Access Road to South Parking Lot	38°31'17.8"N 121°29'25.4"W	37
ECG-16-3934-16Soil	Lead Surface Soil Sample - West Side of Mangan Rifle & Pistol Range Building at South End Near Bullet Trap Access Hatch, 15-feet from Building Exterior Wall	38°31'17.4"N 121°29'27.5"W	100
ECG-16-3934-17Soil	Lead Surface Soil Sample - West Side of Mangan Rifle & Pistol Range Building at North End, 15-feet from Building Exterior Wall	38°31'17.8"N 121°29'27.6"W	86

Discussions and Recommendations

This lead assessment identified lead in surface dust on 18 of the 26 wipe samples collected, with 3 samples identifying lead in surface dust in excess of 400 ug/ft². One of these samples, 09Wipe, was collected from the sidewalk on the south side of 34th Avenue directly in front of the main entrance to the range building and the other two, 32Wipe and 33Wipe, were collected from the south parking lot area.

Samples collected on the sidewalk located on the south side of 34th Avenue identified lead below the hazard level 50-feet east and west of the main entrance to the range building. At 250-feet east and west of the main entry no lead above the detection limit of 8 ug/ft² was identified on the south sidewalk. Samples taken from the sidewalk on the north side of 34th Avenue identified lead between 35 ug/ft² and 9 ug/ft² with 4 samples identifying no lead above the analysis method detection limit.

Lead content in the surface soil in the immediate surrounding area of the range building was identified from a concentration of 37 mg/kg to 360 mg/kg. Three samples were collected within the fenced off area surrounding the range building 10-feet from the edge of the nearest exterior wall. Two samples were collected from the west edge of the fence perimeter, approximately 15-feet from the building exterior wall. One sample was collected on the east side of the south parking lot access road. The one sample identified in excess of the DTSC screening level for lead in soil of 320 mg/kg was taken from the north side of the range building inside the currently fenced off perimeter.



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Concentrations of lead in surface dust immediately outside the main entrance to the Mangan Rifle & Pistol Range on the sidewalk surface located south of 34th Avenue and in the south parking lot of the range building exceed the CDPH criteria established in Title 17 as lead hazards, or "lead-contaminated dust". This criteria is defined as dust that "contains an amount of lead equal to, or in excess of: (c) four hundred micrograms per square foot (400 ug/ft²) for exterior floor and exterior horizontal surfaces".

The City of Sacramento should consider extending the currently fenced off perimeter to include the entire south parking lot and sections of the sidewalk located on the south side of 34th Avenue up to 50-feet east and west from the main entry walkway to the range building.

One near surface soil sample exceeded DTSC screening levels for lead in soil of 320 mg/kg for commercial and industrial land use. This sample was collected from the inside of the currently fenced off perimeter on the north side of the range building.

The City of Sacramento should consider remediation of soils extending farther than 10-feet from the building if soil remediation work will be performed in the future.

Attached to this report are the chain of custody (COC) forms, laboratory reports, schematics identifying sample locations, photographs of various test locations, laboratory accreditation information and certification of Entek staff.

Entek's policy is to retain a full copy of these written documents for three (3) years once the file is closed and final billed. At the end of the three (3) year period the written files will be destroyed without further notice. It is suggested copies of the file(s) are maintained per the City of Sacramento's policy.

Entek will be providing only this electronic copy of the report and its attachments for your use. However, if you would like a hard copy of this report please do not hesitate to ask. Entek will be happy to mail the report upon receipt of your request.

Please forward a copy of this report to all interested parties for review. Thank you for choosing Entek for your environmental needs. If you have any questions with this report please contact our office at (916) 632-6800.

Sincerely,

Reviewed by:

Blake Howes
Project Manager
CDPH Lead Certification #23951

Rick Beall, CIH, CSP
President
CDPH Lead Certification #769

Appendices

- A. Lead Related Documents
- B. Backup Documentation



APPENDIX A

LEAD RELATED DOCUMENTS

- Lead Wipe Material Analysis Report Forms for Entek
- Lead Wipe Analysis Reports From Forensic Analytical
- Lead Wipe Material Analysis Request Forms for Entek
- Lead Soil Material Analysis Report Forms for Entek
- Lead Soil Analysis Reports From Forensic Analytical
- Lead Soil Material Analysis Request Forms for Entek
- Lead Bulk Sample Location Drawings
- Lead Hazard Evaluation Report (CDPH 8552)



BULK MATERIAL Analysis Report

LEAD WIPE

ENTEK CONSULTING GROUP, INC.

4200 ROCKLIN ROAD, SUITE 7
PHONE (916) 632-6800
FAX (916) 632-6812
mainoffice@entekgroup.com

Date of Sampling: 4-28-16

Lab: Forensic Analytical Laboratories

Job Number: 16-3934

Turnaround Time: Monday, 5-2-16 by 5:00 pm

Client Name: City of Sacramento

Collected by: Blake Howes

Site Address: Mangan Park Pistol & Rifle Range
2140 34th Avenue
Sacramento, CA 95822

Analysis Conducted: Lead by Atomic Absorption Spectrometry

SAMPLE #	RESULTS LEAD (µg/ft ²)	MATERIAL DESCRIPTION and LOCATION	WIPE SAMPLE SIZE (SQUARE INCHES)
ECG-16-3934-09Wipe	930	Lead Dust Wipe - Sidewalk on South Side of 34 th Avenue, Directly in Front of Mangan Rifle & Pistol Range Main Entry Walkway	144" - (12" X 12")
ECG-16-3934-10Wipe	330	Lead Dust Wipe - ADA Access Ramp from North Parking Lot onto Sidewalk on South Side of 34 th Avenue, Directly in Front of Mangan Rifle & Pistol Range Main Entry Walkway	144" - (12" X 12")
ECG-16-3934-11Wipe	130	Lead Dust Wipe - Sidewalk on South Side of 34 th Avenue, 50-feet East of Mangan Rifle & Pistol Range Main Entry Walkway	144" - (12" X 12")
ECG-16-3934-12Wipe	31	Lead Dust Wipe - Access Road to South Parking Lot at North Parking Lot Entrance	144" - (12" X 12")
ECG-16-3934-13Wipe	21	Lead Dust Wipe - Sidewalk on South Side of 34 th Avenue, 100-feet East of Mangan Rifle & Pistol Range Main Entry Walkway	144" - (12" X 12")
ECG-16-3934-14Wipe	16	Lead Dust Wipe - Sidewalk on South Side of 34 th Avenue, 150-feet East of Mangan Rifle & Pistol Range Main Entry Walkway	144" - (12" X 12")
ECG-16-3934-15Wipe	8	Lead Dust Wipe - Sidewalk on South Side of 34 th Avenue, 200-feet East of Mangan Rifle & Pistol Range Main Entry Walkway	144" - (12" X 12")
ECG-16-3934-16Wipe	< 8	Lead Dust Wipe - Sidewalk on South Side of 34 th Avenue, 250-feet East of Mangan Rifle & Pistol Range Main Entry Walkway	144" - (12" X 12")
ECG-16-3934-17Wipe	13	Lead Dust Wipe - Sidewalk on North Side of 34 th Avenue, Directly in Front of Mangan Rifle & Pistol Range Main Entry Walkway	144" - (12" X 12")



BULK MATERIAL Analysis Report

LEAD WIPE

ENTEK CONSULTING GROUP, INC.

4200 ROCKLIN ROAD, SUITE 7
PHONE (916) 632-6800
FAX (916) 632-6812
mainoffice@entekgroup.com

Date of Sampling: 4-28-16

Lab: Forensic Analytical Laboratories

Job Number: 16-3934

Turnaround Time: Monday, 5-2-16 by 5:00 pm

Client Name: City of Sacramento

Collected by: Blake Howes

Site Address: Mangan Park Pistol & Rifle Range
2140 34th Avenue
Sacramento, CA 95822

Analysis Conducted: Lead by Atomic Absorption Spectrometry

SAMPLE #	RESULTS LEAD (µg/ft ²)	MATERIAL DESCRIPTION and LOCATION	WIPE SAMPLE SIZE (SQUARE INCHES)
ECG-16-3934-18Wipe	35	Lead Dust Wipe - Sidewalk on North Side of 34 th Avenue, 50-feet East of Mangan Rifle & Pistol Range Main Entry Walkway	144" - (12" X 12")
ECG-16-3934-19Wipe	10	Lead Dust Wipe - Sidewalk on North Side of 34 th Avenue, 100-feet East of Mangan Rifle & Pistol Range Main Entry Walkway	144" - (12" X 12")
ECG-16-3934-20Wipe	< 8	Lead Dust Wipe - Sidewalk on North Side of 34 th Avenue, 150-feet East of Mangan Rifle & Pistol Range Main Entry Walkway	144" - (12" X 12")
ECG-16-3934-21Wipe	< 8	Lead Dust Wipe - Sidewalk on North Side of 34 th Avenue, 200-feet East of Mangan Rifle & Pistol Range Main Entry Walkway	144" - (12" X 12")
ECG-16-3934-22Wipe	< 8	Lead Dust Wipe - Sidewalk on North Side of 34 th Avenue, 50-feet West of Mangan Rifle & Pistol Range Main Entry Walkway	144" - (12" X 12")
ECG-16-3934-23Wipe	< 8	Lead Dust Wipe - Sidewalk on North Side of 34 th Avenue, 100-feet West of Mangan Rifle & Pistol Range Main Entry Walkway	144" - (12" X 12")
ECG-16-3934-24Wipe	9	Lead Dust Wipe - Sidewalk on North Side of 34 th Avenue, 150-feet West of Mangan Rifle & Pistol Range Main Entry Walkway	144" - (12" X 12")
ECG-16-3934-25Wipe	21	Lead Dust Wipe - Sidewalk on North Side of 34 th Avenue, 200-feet West of Mangan Rifle & Pistol Range Main Entry Walkway	144" - (12" X 12")
ECG-16-3934-26Wipe	68	Lead Dust Wipe - Sidewalk on South Side of 34 th Avenue, 50-feet West of Mangan Rifle & Pistol Range Main Entry Walkway	144" - (12" X 12")



BULK MATERIAL Analysis Report

LEAD WIPE

ENTEK CONSULTING GROUP, INC.

4200 ROCKLIN ROAD, SUITE 7
 PHONE (916) 632-6800
 FAX (916) 632-6812
mainoffice@entekgroup.com

Date of Sampling: 4-28-16

Lab: Forensic Analytical Laboratories

Job Number: 16-3934

Turnaround Time: Monday, 5-2-16 by 5:00 pm

Client Name: City of Sacramento

Collected by: Blake Howes

Site Address: Mangan Park Pistol & Rifle Range
 2140 34th Avenue
 Sacramento, CA 95822

Analysis Conducted: Lead by Atomic Absorption Spectrometry

SAMPLE #	RESULTS LEAD (µg/ft²)	MATERIAL DESCRIPTION and LOCATION	WIPE SAMPLE SIZE (SQUARE INCHES)
ECG-16-3934-27Wipe	11	Lead Dust Wipe- Sidewalk on South Side of 34 th Avenue, 100-feet West of Mangan Rifle & Pistol Range Main Entry Walkway	144" - (12" X 12")
ECG-16-3934-28Wipe	< 8	Lead Dust Wipe - Sidewalk on South Side of 34 th Avenue, 150-feet West of Mangan Rifle & Pistol Range Main Entry Walkway	144" - (12" X 12")
ECG-16-3934-29Wipe	< 8	Lead Dust Wipe - Sidewalk on South Side of 34 th Avenue, 200-feet West of Mangan Rifle & Pistol Range Main Entry Walkway	144" - (12" X 12")
ECG-16-3934-30Wipe	< 8	Lead Dust Wipe - Sidewalk on South Side of 34 th Avenue, 250-feet West of Mangan Rifle & Pistol Range Main Entry Walkway	144" - (12" X 12")
ECG-16-3934-31Wipe	85	Lead Dust Wipe - South Parking Lot, West Side 35-feet from Exterior Wall of Mangan Rifle & Pistol Range	144" - (12" X 12")
ECG-16-3934-32Wipe	970	Lead Dust Wipe - South Parking Lot, Center of Lot at Drainage Inlet	144" - (12" X 12")
ECG-16-3934-33Wipe	870	Lead Dust Wipe - South Parking Lot, East Side 35-feet from Exterior Wall of Mangan Rifle & Pistol Range	144" - (12" X 12")
ECG-16-3934-34Wipe	180	Lead Dust Wipe - South Parking Lot, Center 60-feet from Exterior Wall of Mangan Rifle & Pistol Range	144" - (12" X 12")
ECG-16-3934-35Wipe	< 8	Lead Dust Wipe- Blank Wipe	n/a

Z:\Clients\City of Sacramento\16-3934 Mangan Park - Lead\Lead Wipe\LeadWipeReport 04-28-16.wpd



Metals Analysis of HUD Wipes

Entek Consulting Group
Blake Howes
4200 Rocklin Road, Suite 7

Rocklin, CA 95677

Client ID: A31353
Report Number: M171550
Date Received: 04/29/16
Date Analyzed: 05/02/16
Date Printed: 05/02/16
First Reported: 05/02/16

Job ID / Site: 16-3934, City of Sacramento, Mangan Park Pistol & Rifle Range 2140 34th Avenue Sacramento, CA 95822

Date(s) Collected: 4/28/16

FALI Job ID: A31353

Total Samples Submitted: 11

Total Samples Analyzed: 11

Sample Number	Lab Number	Area ft2	Analyte	Result	Result Units	Reporting Limit*	Method Reference
ECG-16-3934-09WIPE	30737738	1.00	Pb	930	ug/ft2	30	NIOSH 9100/7082
ECG-16-3934-10WIPE	30737739	1.00	Pb	330	ug/ft2	20	NIOSH 9100/7082
ECG-16-3934-11WIPE	30737740	1.00	Pb	130	ug/ft2	8	NIOSH 9100/7082
ECG-16-3934-12WIPE	30737741	1.00	Pb	31	ug/ft2	8	NIOSH 9100/7082
ECG-16-3934-13WIPE	30737742	1.00	Pb	21	ug/ft2	8	NIOSH 9100/7082
ECG-16-3934-14WIPE	30737743	1.00	Pb	16	ug/ft2	8	NIOSH 9100/7082
ECG-16-3934-15WIPE	30737744	1.00	Pb	8	ug/ft2	8	NIOSH 9100/7082
ECG-16-3934-16WIPE	30737745	1.00	Pb	< 8	ug/ft2	8	NIOSH 9100/7082
ECG-16-3934-17WIPE	30737746	1.00	Pb	13	ug/ft2	8	NIOSH 9100/7082
ECG-16-3934-18WIPE	30737747	1.00	Pb	35	ug/ft2	8	NIOSH 9100/7082
ECG-16-3934-19WIPE	30737748	1.00	Pb	10	ug/ft2	8	NIOSH 9100/7082

* 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

Analytical results and reports are generated by Forensic Analytical at the request of and for the exclusive use of the person or entity (client) named on such report. Results, reports or copies of same will not be released by Forensic Analytical to any third party without prior written request from client. This report applies only to the sample(s) tested. Supporting laboratory documentation is available upon request. This report must not be reproduced except in full, unless approved by Forensic Analytical. The client is solely responsible for the use and interpretation of test results and reports requested from Forensic Analytical. Forensic Analytical is not able to assess the degree of hazard resulting from materials analyzed. Forensic Analytical 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. Any modifications that have been made to referenced test methods are documented in Forensic Analytical's Standard Operating Procedures Manual. Sample results have not been blank corrected. Quality control and sample receipt condition were acceptable unless otherwise noted.



Metals Analysis of HUD Wipes

Entek Consulting Group
Blake Howes
4200 Rocklin Road, Suite 7

Rocklin, CA 95677

Client ID: A31353
Report Number: M171549
Date Received: 04/29/16
Date Analyzed: 05/02/16
Date Printed: 05/02/16
First Reported: 05/02/16

Job ID / Site: 16-3934, City of Sacramento, Mangan Park Pistol & Rifle Range 2140 34th Avenue Sacramento, CA 95822

Date(s) Collected: 4/28/16

FALI Job ID: A31353

Total Samples Submitted: 11

Total Samples Analyzed: 11

Sample Number	Lab Number	Area ft2	Analyte	Result	Result Units	Reporting Limit*	Method Reference
ECG-16-3934-20WIPE	30737727	1.00	Pb	< 8	ug/ft2	8	NIOSH 9100/7082
ECG-16-3934-21WIPE	30737728	1.00	Pb	< 8	ug/ft2	8	NIOSH 9100/7082
ECG-16-3934-22WIPE	30737729	1.00	Pb	< 8	ug/ft2	8	NIOSH 9100/7082
ECG-16-3934-23WIPE	30737730	1.00	Pb	< 8	ug/ft2	8	NIOSH 9100/7082
ECG-16-3934-24WIPE	30737731	1.00	Pb	9	ug/ft2	8	NIOSH 9100/7082
ECG-16-3934-25WIPE	30737732	1.00	Pb	21	ug/ft2	8	NIOSH 9100/7082
ECG-16-3934-26WIPE	30737733	1.00	Pb	68	ug/ft2	8	NIOSH 9100/7082
ECG-16-3934-27WIPE	30737734	1.00	Pb	11	ug/ft2	8	NIOSH 9100/7082
ECG-16-3934-28WIPE	30737735	1.00	Pb	< 8	ug/ft2	8	NIOSH 9100/7082
ECG-16-3934-29WIPE	30737736	1.00	Pb	< 8	ug/ft2	8	NIOSH 9100/7082
ECG-16-3934-30WIPE	30737737	1.00	Pb	< 8	ug/ft2	8	NIOSH 9100/7082

* 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

Analytical results and reports are generated by Forensic Analytical at the request of and for the exclusive use of the person or entity (client) named on such report. Results, reports or copies of same will not be released by Forensic Analytical to any third party without prior written request from client. This report applies only to the sample(s) tested. Supporting laboratory documentation is available upon request. This report must not be reproduced except in full, unless approved by Forensic Analytical. The client is solely responsible for the use and interpretation of test results and reports requested from Forensic Analytical. Forensic Analytical is not able to assess the degree of hazard resulting from materials analyzed. Forensic Analytical 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. Any modifications that have been made to referenced test methods are documented in Forensic Analytical's Standard Operating Procedures Manual. Sample results have not been blank corrected. Quality control and sample receipt condition were acceptable unless otherwise noted.



Metals Analysis of HUD Wipes

Entek Consulting Group
Blake Howes
4200 Rocklin Road, Suite 7

Rocklin, CA 95677

Client ID: A31353
Report Number: M171547
Date Received: 04/29/16
Date Analyzed: 05/02/16
Date Printed: 05/02/16
First Reported: 05/02/16

Job ID / Site: 16-3934, City of Sacramento, Mangan Park Pistol & Rifle Range 2140 34th Avenue Sacramento, CA 95822

Date(s) Collected: 4/28/16

FALI Job ID: A31353

Total Samples Submitted: 5

Total Samples Analyzed: 5

Sample Number	Lab Number	Area ft2	Analyte	Result	Result Units	Reporting Limit*	Method Reference
ECG-16-3934-31WIPE	30737716	1.00	Pb	85	ug/ft2	8	NIOSH 9100/7082
ECG-16-3934-32WIPE	30737717	1.00	Pb	970	ug/ft2	40	NIOSH 9100/7082
ECG-16-3934-33WIPE	30737718	1.00	Pb	870	ug/ft2	30	NIOSH 9100/7082
ECG-16-3934-34WIPE	30737719	1.00	Pb	180	ug/ft2	8	NIOSH 9100/7082
ECG-16-3934-35WIPE	30737720		Pb	< 8	ug	8	NIOSH 9100/7082

* 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

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BULK MATERIAL Analysis Request

LEAD WIPE SAMPLING

ENTEK CONSULTING GROUP, INC.

4200 ROCKLIN ROAD, SUITE 7
 ROCKLIN, CA 95677
 (916) 632-6800 PHONE
 (916) 632-6812 FAX
mainoffice@entekgroup.com

Date of Sampling: 4-28-16

Lab: Forensic Analytical Laboratories

Job Number: 16-3934

Turnaround Time: Monday, 5-2-16 by 5:00 pm

Client Name: City of Sacramento

Collected by: Blake Howes

Site Address: Mangan Park Pistol & Rifle Range
 2140 34th Avenue
 Sacramento, CA 95822

Analysis Conducted: Lead by Atomic Absorption Spectrometry

Special Instructions: Please email results to bhowes@entekgroup.com and mainoffice@entekgroup.com as soon as available.

SAMPLE #	MATERIAL DESCRIPTION and LOCATION	WIPE SAMPLE SIZE (SQUARE INCHES)
ECG-16-3934-09Wipe	Lead Dust Wipe - Sidewalk on South Side of 34 th Avenue, Directly in Front of Mangan Rifle & Pistol Range Main Entry Walkway	144 - (12"x12")
ECG-16-3934-10Wipe	Lead Dust Wipe - ADA Access Ramp from North Parking Lot onto Sidewalk on South Side of 34 th Avenue, Directly in Front of Mangan Rifle & Pistol Range Main Entry Walkway	144 - (12"x12")
ECG-16-3934-11Wipe	Lead Dust Wipe - Sidewalk on South Side of 34 th Avenue, 50-feet East of Mangan Rifle & Pistol Range Main Entry Walkway	144 - (12"x12")
ECG-16-3934-12Wipe	Lead Dust Wipe - Access Road to South Parking Lot at North Parking Lot Entrance	144 - (12"x12")
ECG-16-3934-13Wipe	Lead Dust Wipe - Sidewalk on South Side of 34 th Avenue, 100-feet East of Mangan Rifle & Pistol Range Main Entry Walkway	144 - (12"x12")
ECG-16-3934-14Wipe	Lead Dust Wipe - Sidewalk on South Side of 34 th Avenue, 150-feet East of Mangan Rifle & Pistol Range Main Entry Walkway	144 - (12"x12")
ECG-16-3934-15Wipe	Lead Dust Wipe - Sidewalk on South Side of 34 th Avenue, 200-feet East of Mangan Rifle & Pistol Range Main Entry Walkway	144 - (12"x12")
ECG-16-3934-16Wipe	Lead Dust Wipe - Sidewalk on South Side of 34 th Avenue, 250-feet East of Mangan Rifle & Pistol Range Main Entry Walkway	144 - (12"x12")
ECG-16-3934-17Wipe	Lead Dust Wipe - Sidewalk on North Side of 34 th Avenue, Directly in Front of Mangan Rifle & Pistol Range Main Entry Walkway	144 - (12"x12")
ECG-16-3934-18Wipe	Lead Dust Wipe - Sidewalk on North Side of 34 th Avenue, 50-feet East of Mangan Rifle & Pistol Range Main Entry Walkway	144 - (12"x12")
ECG-16-3934-19Wipe	Lead Dust Wipe - Sidewalk on North Side of 34 th Avenue, 100-feet East of Mangan Rifle & Pistol Range Main Entry Walkway	144 - (12"x12")

Delivered by: Via FedEx - *B. Howes* Date: 4/28/16 Time: 3:11 AM/PM

Received by: *Yvette Ramirez* Date: 4/29/16 Time: 11:30 AM/PM



BULK MATERIAL Analysis Request

LEAD WIPE SAMPLING

ENTEK CONSULTING GROUP, INC.

4200 ROCKLIN ROAD, SUITE 7
ROCKLIN, CA 95677
(916) 632-6800 PHONE
(916) 632-6812 FAX
mainoffice@entekgroup.com

Date of Sampling: 4-28-16

Lab: Forensic Analytical Laboratories

Job Number: 16-3934

Turnaround Time: Monday, 5-2-16 by 5:00 pm

Client Name: City of Sacramento

Collected by: Blake Howes

Site Address: Mangan Park Pistol & Rifle Range
2140 34th Avenue
Sacramento, CA 95822

Analysis Conducted: Lead by Atomic Absorption Spectrometry

Special Instructions: Please email results to bhowes@entekgroup.com and mainoffice@entekgroup.com as soon as available.

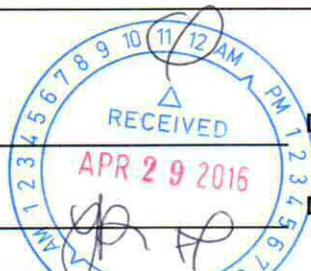
Table with 3 columns: SAMPLE #, MATERIAL DESCRIPTION and LOCATION, WIPE SAMPLE SIZE (SQUARE INCHES). Contains 12 rows of sampling data.

Delivered by: Via FedEx -

Date: 4/28/16 Time: 3:11 AM/PM

Received by:

Date: / / Time: AM/PM





BULK MATERIAL Analysis Request

LEAD WIPE SAMPLING

ENTEK CONSULTING GROUP, INC.

4200 ROCKLIN ROAD, SUITE 7
 ROCKLIN, CA 95677
 (916) 632-6800 PHONE
 (916) 632-6812 FAX
mainoffice@entekgroup.com

Date of Sampling: 4-28-16

Lab: Forensic Analytical Laboratories

Job Number: 16-3934

Turnaround Time: Monday, 5-2-16 by 5:00 pm

Client Name: City of Sacramento

Collected by: Blake Howes

Site Address: Mangan Park Pistol & Rifle Range
 2140 34th Avenue
 Sacramento, CA 95822

Analysis Conducted: Lead by Atomic Absorption Spectrometry

Special Instructions: Please email results to bhowes@entekgroup.com and mainoffice@entekgroup.com as soon as available.

SAMPLE #	MATERIAL DESCRIPTION and LOCATION	WIPE SAMPLE SIZE (SQUARE INCHES)
ECG-16-3934-31Wipe	Lead Dust Wipe - South Parking Lot, West Side 35-feet from Exterior Wall of Mangan Rifle & Pistol Range	144 - (12"x12")
ECG-16-3934-32Wipe	Lead Dust Wipe - South Parking Lot, Center of Lot at Drainage Inlet	144 - (12"x12")
ECG-16-3934-33Wipe	Lead Dust Wipe - South Parking Lot, East Side 35-feet from Exterior Wall of Mangan Rifle & Pistol Range	144 - (12"x12")
ECG-16-3934-34Wipe	Lead Dust Wipe - South Parking Lot, Center 60-feet from Exterior Wall of Mangan Rifle & Pistol Range	144 - (12"x12")
ECG-16-3934-35Wipe	Lead Dust Wipe- Blank Wipe	n/a

Z:\Clients\City of Sacramento\16-3934 Mangan Park - Lead\Lead Wipe\LeadWipeRqt 04-28-16.wpd



Delivered by: Via FedEx - B STEVENS **Date:** 4/28/16 **Time:** 3:11 **AM/PM** AM

Received by: _____ **Date:** / / **Time:** _____ **AM/PM**

**BULK LEAD MATERIAL** Analysis Report**LEAD SOIL SAMPLING****ENTEK CONSULTING GROUP, INC.**

4200 ROCKLIN ROAD, SUITE 7

ROCKLIN, CA 95677

(916) 632-6800 PHONE

(916) 632-6812 FAX

mainoffice@entekgroup.com**Date of Sampling:** 4-28-16**Lab:** Forensic Analytical Laboratories**Job Number:** 16-3934**Turnaround Time:** Monday, 5-2-16 by 5:00 pm**Client Name:** City of Sacramento**Collected by:** Blake Howes**Site Address:** Mangan Park Pistol & Rifle Range
2140 34th Avenue
Sacramento, CA 95822**Analysis Conducted:** Lead by Atomic Absorption Spectrometry

SAMPLE #	LEAD RESULT (mg/kg)	LEAD RESULT (ppm)	MATERIAL DESCRIPTION/LOCATION
ECG-16-3934-12Soil	360		Lead Surface Soil Sample - North Side of Mangan Rifle & Pistol Range Building, 10-feet from Building Exterior Wall, 38°31'18.3"N 121°29'26.6"W
ECG-16-3934-13Soil	220		Lead Surface Soil Sample - North Side of Mangan Rifle & Pistol Range Building at West End, 10-feet from Building Exterior Wall, 38°31'18.1"N 121°29'27.2"W
ECG-16-3934-14Soil	300		Lead Surface Soil Sample - Southeast Side of Mangan Rifle & Pistol Range Building, 10-feet from Building Exterior Wall, 38°31'17.5"N 121°29'25.9"W
ECG-16-3934-15Soil	37		Lead Surface Soil Sample - East Side of Mangan Rifle & Pistol Range Building, East Side of Access Road to South Parking Lot, 38°31'17.8"N 121°29'25.4"W
ECG-16-3934-16Soil	100		Lead Surface Soil Sample - West Side of Mangan Rifle & Pistol Range Building at South End Near Bullet Trap Access Hatch, 15-feet from Building Exterior Wall, 38°31'17.4"N 121°29'27.5"W
ECG-16-3934-17Soil	86		Lead Surface Soil Sample - West Side of Mangan Rifle & Pistol Range Building at North End, 15-feet from Building Exterior Wall, 38°31'17.8"N 121°29'27.6"W



Metals Analysis of Soils - TTLC

Entek Consulting Group
Blake Howes
4200 Rocklin Road, Suite 7

Rocklin, CA 95677

Client ID: A31353
Report Number: M171548
Date Received: 04/29/16
Date Analyzed: 05/02/16
Date Printed: 05/02/16
First Reported: 05/02/16

Job ID / Site: 16-3934, City of Sacramento, Mangan Park Pistol & Rifle Range 2140 34th Avenue Sacramento, CA 95822

Date(s) Collected: 4/28/16

FALI Job ID: A31353

Total Samples Submitted: 6

Total Samples Analyzed: 6

Sample Number	Lab Number	Analyte	Result	Result Units	Reporting Limit*	Method Reference
ECG-16-3934-12SOIL	30737721	Pb	360	mg/kg	30	EPA 3050B/7420
ECG-16-3934-13SOIL	30737722	Pb	220	mg/kg	20	EPA 3050B/7420
ECG-16-3934-14SOIL	30737723	Pb	300	mg/kg	20	EPA 3050B/7420
ECG-16-3934-15SOIL	30737724	Pb	37	mg/kg	6	EPA 3050B/7420
ECG-16-3934-16SOIL	30737725	Pb	100	mg/kg	6	EPA 3050B/7420
ECG-16-3934-17SOIL	30737726	Pb	86	mg/kg	6	EPA 3050B/7420

* 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

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BULK MATERIAL Analysis Request

LEAD SOIL SAMPLING

ENTEK CONSULTING GROUP, INC.

4200 ROCKLIN ROAD, SUITE 7
ROCKLIN, CA 95677
(916) 632-6800 PHONE
(916) 632-6812 FAX
mainoffice@entekgroup.com

Date of Sampling: 4-28-16

Lab: Forensic Analytical Laboratories

Job Number: 16-3934

Turnaround Time: Monday, 5-2-16 by 5:00 pm

Client Name: City of Sacramento

Collected by: Blake Howes

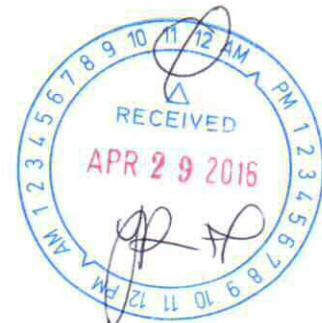
Site Address: Mangan Park Pistol & Rifle Range
2140 34th Avenue
Sacramento, CA 95822

Analysis Conducted: Lead by Atomic
Absorption Spectrometry

Special Instructions: Please email results to bhowes@entekgroup.com and mainoffice@entekgroup.com as soon as available.

SAMPLE #	MATERIAL DESCRIPTION/LOCATION
ECG-16-3934-12Soil	Lead Surface Soil Sample - North Side of Mangan Rifle & Pistol Range Building, 10-feet from Building Exterior Wall, 38°31'18.3"N 121°29'26.6"W
ECG-16-3934-13Soil	Lead Surface Soil Sample - North Side of Mangan Rifle & Pistol Range Building at West End, 10-feet from Building Exterior Wall, 38°31'18.1"N 121°29'27.2"W
ECG-16-3934-14Soil	Lead Surface Soil Sample - Southeast Side of Mangan Rifle & Pistol Range Building, 10-feet from Building Exterior Wall, 38°31'17.5"N 121°29'25.9"W
ECG-16-3934-15Soil	Lead Surface Soil Sample - East Side of Mangan Rifle & Pistol Range Building, East Side of Access Road to South Parking Lot, 38°31'17.8"N 121°29'25.4"W
ECG-16-3934-16Soil	Lead Surface Soil Sample - West Side of Mangan Rifle & Pistol Range Building at South End Near Bullet Trap Access Hatch, 15-feet from Building Exterior Wall, 38°31'17.4"N 121°29'27.5"W
ECG-16-3934-17Soil	Lead Surface Soil Sample - West Side of Mangan Rifle & Pistol Range Building at North End, 15-feet from Building Exterior Wall, 38°31'17.8"N 121°29'27.6"W

Z:\Clients\City of Sacramento\16-3934 Mangan Park - Lead\Soil Sample\LeadBulkRqtSoil 04-28-16.wpd



Delivered by: Via FedEx - B Stevens Date: 4/28/16 Time: 3:11 AM/PM

Received by: _____ Date: / / Time: _____ AM/PM



Sample Numbers are Preceded by ECG-16-3934-

City of Sacramento
 Mangan Park Rifle & Pistol Range
 2140 34th Avenue
 Sacramento, CA 95822-3157

Entek Consulting Group, Inc
 4200 Rocklin Road, Suite 7
 Rocklin, California 95677
 Map Not to Scale

Lead Wipe or Near Surface Dust Sample Locations
 Collected by: Blake Howes
 April 28, 2016
 Project #16-3934



Sample Numbers are Preceded by ECG-16-3934-

City of Sacramento
Mangan Park Rifle & Pistol Range
2140 34th Avenue
Sacramento, CA 95822-3157

Entek Consulting Group, Inc
4200 Rocklin Road, Suite 7
Rocklin, California 95677
Map Not to Scale

Lead Wipe or Near Surface Dust Sample Locations
Collected by: Blake Howes
April 28, 2016
Project #16-3934



Sample Numbers are Preceded by ECG-16-3934-

City of Sacramento
Mangan Park Rifle & Pistol Range
2140 34th Avenue
Sacramento, CA 95822-3157

Entek Consulting Group, Inc
4200 Rocklin Road, Suite 7
Rocklin, California 95677
Map Not to Scale

Lead Wipe or Near Surface Dust Sample Locations
Collected by: Blake Howes
April 28, 2016
Project #16-3934

LEAD HAZARD EVALUATION REPORT

Section 1 – Date of Lead Hazard Evaluation 4-28-16

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

Lead Inspection
 Risk Assessment
 Clearance Inspection
 Other (specify) _____

Section 3—Structure Where Lead Hazard Evaluation Was Conducted

Address [number, street, apartment (if applicable)] 2140 34 TH Avenue	City Sacramento	County Sacramento	Zip Code 95822
Construction date (year) of structure Late 1960's	Type of structure <input type="checkbox"/> Multi-unit building <input type="checkbox"/> School or daycare <input type="checkbox"/> Single family dwelling <input checked="" type="checkbox"/> Other (specify) <u>Firearm Range</u>	Children living in structure? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Don't Know	

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

City of Sacramento, Department of Public Works, Mr. Karl Kurka	Telephone Number (916) 808-8430		
Address [number, street, apartment (if applicable)] 915 I Street, 2 nd Floor	City Sacramento	State California	Zip Code 95814

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 Entek Consulting Group, Inc. - Blake Howes	Telephone Number (916) 632-6800		
Address [number, street, apartment (if applicable)] 4200 Rocklin Road, Suite 7	City Rocklin	State CA	Zip Code 95677
CDPH certification number 23951	Signature 	Date 5-3-16	

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

Section 7—Attachments

- A. A foundation diagram or sketch of the structure indicating the specific 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, indicating 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 B

BACK UP DOCUMENTATION

- Site Photographs
- Inspector Accreditations and Certifications
- Laboratory Accreditations for Lead Analysis



Sample 09Wipe



Sample 10Wipe



Sample 13Wipe



Sample 17Wipe



Sample 32Wipe



Sample 16Soil

State of California Department of Public Health

Lead-Related Construction Certificate	Certificate Type	Expiration Date
	Inspector/Assessor	09/10/2016



Blake W. Howes ID # **23951**

State of California Department of Public Health

Lead-Related
Construction
Certificate

Certificate
Type

Expiration
Date

Inspector/Assessor	04/19/2016
Project Designer	04/19/2016
Project Monitor	04/19/2016



Richard A. Beall

ID #: 769



AIHA Laboratory Accreditation Programs, LLC

acknowledges that

Forensic Analytical Laboratories, Inc.

3777 Depot Road, Suite 409, Hayward, CA 94545

Laboratory ID: 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: 08/01/2016 |
| ✓ ENVIRONMENTAL LEAD | Accreditation Expires: 08/01/2016 |
| ✓ ENVIRONMENTAL MICROBIOLOGY | Accreditation Expires: 08/01/2016 |
| <input type="checkbox"/> FOOD | Accreditation Expires: |
| ✓ UNIQUE SCOPES | Accreditation Expires: 08/01/2016 |

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.

Gerald Schultz, CIH
Chairperson, Analytical Accreditation Board

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

Revision 14: 03/26/2014

Date Issued: 04/30/2014



AIHA Laboratory Accreditation Programs, LLC

SCOPE OF ACCREDITATION

Forensic Analytical Laboratories, Inc.

3777 Depot Road, Suite 409, Hayward, CA 94545

Laboratory ID: **101762**

Issue Date: 04/30/2014

The laboratory is approved for those specific field(s) of testing/methods listed in the table below. Clients are urged to verify the laboratory's current accreditation status for the particular field(s) of testing/Methods, since these can change due to proficiency status, suspension and/or withdrawal of accreditation.

Industrial Hygiene Laboratory Accreditation Program (IHLAP)

Initial Accreditation Date: **03/01/1990**

IHLAP Scope Category	Field of Testing (FoT)	Technology sub-type/ Detector	Published Reference Method/ Title of In-house Method	Method Description or Analyte <i>(for internal methods only)</i>
Chromatography Core	Ion Chromatography (IC)		NIOSH 7903	
			OSHA ID 215 v2	
Spectrometry Core	Atomic Absorption	CVAA	NIOSH 6009	
			OSHA ID-140	
			OSHA ID-145	
		FAA	NIOSH 7082	
			OSHA ID-121	
			NIOSH 7105	
	Inductively-Coupled Plasma	ICP/AES	NIOSH 7303	
		OSHA ID-125G		
UV/VIS (Colorimetric)		NIOSH 7600		
Asbestos/Fiber Microscopy Core	Polarized Light Microscopy (PLM)		EPA/600/M4-82-020, 1982	
			EPA/600/R-93/116, July 1993	
	Phase Contrast Microscopy (PCM)		NIOSH 7400	
	Transmission Electron Microscopy (TEM)		EPA 600/R-93/116	SOP TEM 301
			EPA 600/R-93/116	SOP TEM 300
			EPA 600/R-93/116	SOP TEM 302
			EPA 600/R-93/116	SOP TEM 303
			EPA AHERA - 40 CFR Part 763	EPA AHERA Method (40 CFR 763, Subpart E, Appendix A, Mandatory Method)
			NIOSH 7402	
			Yamate Level 1	
	Yamate Level 2			

Effective: 03/12/2013

101762_Scope_IHLAP_2014_04_30

Page 1 of 2



IHLAP Scope Category	Field of Testing (FoT)	Technology sub-type/ Detector	Published Reference Method/Title of In-house Method	Method Description or Analyte <i>(for internal methods only)</i>
Miscellaneous Core	Gravimetric		NIOSH 0500	
			NIOSH 0600	

A complete listing of currently accredited Industrial Hygiene laboratories is available on the AIHA-LAP, LLC website at: <http://www.aihaaccreditedlabs.org>



AIHA Laboratory Accreditation Programs, LLC SCOPE OF ACCREDITATION

Forensic Analytical Laboratories, Inc.

3777 Depot Road, Suite 409, Hayward, CA 94545

Laboratory ID: **101762**

Issue Date: 04/30/2014

The laboratory is approved for those specific field(s) of testing/methods listed in the table below. Clients are urged to verify the laboratory's current accreditation status for the particular field(s) of testing/Methods, since these can change due to proficiency status, suspension and/or withdrawal of accreditation.

The EPA recognizes the AIHA-LAP, LLC ELLAP program as meeting the requirements of the National Lead Laboratory Accreditation Program (NLLAP) established under Title X of the Residential Lead-Based Paint Hazard Reduction Act of 1992 and includes paint, soil and dust wipe analysis. Air analysis is not included as part of the NLLAP.

Environmental Lead Laboratory Accreditation Program (ELLAP)

Initial Accreditation Date: 06/26/1995

Field of Testing (FoT)	Method	Method Description <i>(for internal methods only)</i>
Paint	EPA SW-846 3050B	
	EPA SW-846 7420	
Soil	EPA SW-846 3050B	
	EPA SW-846 7420	
Settled Dust by Wipe	HUD App. 14.2	IN HOUSE METHOD
	NIOSH 7082	
	NIOSH 9100	
	OSHA ID-105 Modified	
Airborne Dust	NIOSH 7082	
	NIOSH 7105	
	NIOSH 7303	

A complete listing of currently accredited Environmental Lead laboratories is available on the AIHA-LAP, LLC website at: <http://www.aihaaccreditedlabs.org>



AIHA Laboratory Accreditation Programs, LLC SCOPE OF ACCREDITATION

Forensic Analytical Laboratories, Inc.
3777 Depot Road, Suite 409, Hayward, CA 94545

Laboratory ID: **101762**
Issue Date: 04/30/2014

The laboratory is approved for those specific field(s) of testing/methods listed in the table below. Clients are urged to verify the laboratory's current accreditation status for the particular field(s) of testing/Methods, since these can change due to proficiency status, suspension and/or withdrawal of accreditation.

Environmental Microbiology Laboratory Accreditation Program (EMLAP)

Initial Accreditation Date: 11/01/2003

EMLAP Category	Field of Testing (FoT)	Method	Method Description <i>(for internal methods only)</i>
Fungal	Air - Culturable	SOP IAQ 100	Analysis of Viable Air Samples for Identification of Fungal Mycota
	Bulk - Culturable	SOP IAQ 103	Analysis of Viable Bulk Samples for Identification of Fungal Mycota
	Surface - Culturable	SOP IAQ 103	Analysis of Viable Bulk Samples for Identification of Fungal Mycota
	Air - Direct Examination	SOP IAQ 101	Analysis of Non-Viable Air Samples for Identification of Fungal Mycota
	Bulk - Direct Examination	SOP IAQ 102	Analysis of Non-Viable Bulk Samples for Identification of Fungal Mycota
	Surface - Direct Examination	SOP IAQ 102	Analysis of Non-Viable Bulk Samples for Identification of Fungal Mycota
Bacterial	Legionella	IAQ 214	Recovery of Legionellae from Swab Samples

A complete listing of currently accredited Environmental Microbiology laboratories is available on the AIHA-LAP, LLC website at: <http://www.aihaaccreditedlabs.org>



AIHA Laboratory Accreditation Programs, LLC SCOPE OF ACCREDITATION

Forensic Analytical Laboratories, Inc.

3777 Depot Road, Suite 409, Hayward, CA 94545

Laboratory ID: **101762**

Issue Date: 04/30/2014

The laboratory is approved for those specific field(s) of testing/methods listed in the table below. Clients are urged to verify the laboratory's current accreditation status for the particular field(s) of testing/Methods, since these can change due to proficiency status, suspension and/or withdrawal of accreditation.

Unique Scopes Laboratory Accreditation Program (Unique Scopes)

Initial Accreditation Date: 05/01/2014

Unique Scope Category	Field of Testing (FoT)	Method	Method Description <i>(for internal methods only)</i>
Consumer Product Testing	Lead in Paint and Other Similar Surface Coatings	16 C.F.R 1303 CPSC-CH-E1003-09	MET 213
		16 C.F.R 1303 CPSC-CH-E1001.08.1	MET 214
		16 C.F.R 1303 CPSC-CH-E1002.08.1	MET 215

A complete listing of currently accredited Food laboratories is available on the AIHA-LAP, LLC website at: <http://www.aihaaccreditedlabs.org>



CALIFORNIA STATE

ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM BRANCH

CERTIFICATE OF ENVIRONMENTAL LABORATORY ACCREDITATION

Is hereby granted to

Forensic Analytical Laboratories, Inc.

Hayward Laboratory

3777 Depot Road, #409

Hayward, CA 94545

Scope of the certificate is limited to the
"Fields of Testing"
which accompany this Certificate.

Continued accredited status depends on successful completion of on-site,
proficiency testing studies, and payment of applicable fees.

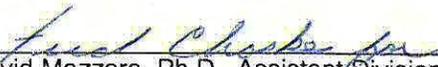
This Certificate is granted in accordance with provisions of
Section 100825, et seq. of the Health and Safety Code.

Certificate No.: **1202**

Expiration Date: **05/31/2016**

Effective Date: **06/01/2014**

Richmond, California
subject to forfeiture or revocation


David Mazzera, Ph.D., Assistant Division Chief
Division of Drinking Water and Environmental Management



CALIFORNIA DEPARTMENT OF PUBLIC HEALTH
ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM
Accredited Fields of Testing



Forensic Analytical Laboratories, Inc.

Hayward Laboratory
3777 Depot Road, #409
Hayward, CA 94545
Phone: (510) 887-8828

Certificate No.: 1202
Renew Date: 5/31/2014

Field of Testing: 101 - Microbiology of Drinking Water

101.060	002	Total Coliform	SM9223
101.060	003	E. coli	SM9223
101.160	001	Total Coliform (Enumeration)	SM9223
101.200	001	E. coli (Enumeration)	SM9223B

Field of Testing: 103 - Toxic Chemical Elements of Drinking Water

103.040	010	Lead	SM3113B
103.130	001	Aluminum	EPA 200.7
103.130	003	Barium	EPA 200.7
103.130	004	Beryllium	EPA 200.7
103.130	005	Cadmium	EPA 200.7
103.130	007	Chromium	EPA 200.7
103.130	008	Copper	EPA 200.7
103.130	009	Iron	EPA 200.7
103.130	011	Manganese	EPA 200.7
103.130	012	Nickel	EPA 200.7
103.130	015	Silver	EPA 200.7
103.130	017	Zinc	EPA 200.7
103.160	001	Mercury	EPA 245.1
103.300	001	Asbestos	EPA 100.1
103.301	001	Asbestos	EPA 100.2

Field of Testing: 107 - Microbiology of Wastewater

107.242	001	Enterococci	Enterolert
107.245	001	E. coli	SM9223

Field of Testing: 109 - Toxic Chemical Elements of Wastewater

109.010	001	Aluminum	EPA 200.7
109.010	002	Antimony	EPA 200.7
109.010	003	Arsenic	EPA 200.7
109.010	004	Barium	EPA 200.7
109.010	005	Beryllium	EPA 200.7
109.010	007	Cadmium	EPA 200.7
109.010	009	Chromium	EPA 200.7
109.010	010	Cobalt	EPA 200.7

109.010	011	Copper	EPA 200.7
109.010	012	Iron	EPA 200.7
109.010	013	Lead	EPA 200.7
109.010	015	Manganese	EPA 200.7
109.010	016	Molybdenum	EPA 200.7
109.010	017	Nickel	EPA 200.7
109.010	019	Selenium	EPA 200.7
109.010	021	Silver	EPA 200.7
109.010	023	Thallium	EPA 200.7
109.010	024	Tin	EPA 200.7
109.010	026	Vanadium	EPA 200.7
109.010	027	Zinc	EPA 200.7
109.190	001	Mercury	EPA 245.1
109.370	010	Lead	SM3111B

Field of Testing: 114 - Inorganic Chemistry of Hazardous Waste

114.010	001	Antimony	EPA 6010B
114.010	002	Arsenic	EPA 6010B
114.010	003	Barium	EPA 6010B
114.010	004	Beryllium	EPA 6010B
114.010	005	Cadmium	EPA 6010B
114.010	006	Chromium	EPA 6010B
114.010	007	Cobalt	EPA 6010B
114.010	008	Copper	EPA 6010B
114.010	009	Lead	EPA 6010B
114.010	010	Molybdenum	EPA 6010B
114.010	011	Nickel	EPA 6010B
114.010	012	Selenium	EPA 6010B
114.010	013	Silver	EPA 6010B
114.010	014	Thallium	EPA 6010B
114.010	015	Vanadium	EPA 6010B
114.010	016	Zinc	EPA 6010B
114.130	001	Lead	EPA 7420
114.140	001	Mercury	EPA 7470A
114.141	001	Mercury	EPA 7471A
114.240	001	Corrosivity - pH Determination	EPA 9040B
114.241	001	Corrosivity - pH Determination	EPA 9045C

Field of Testing: 115 - Extraction Test of Hazardous Waste

115.021	001	TCLP Inorganics	EPA 1311
115.030	001	Waste Extraction Test (WET)	CCR Chapter11, Article 5, Appendix II

Field of Testing: 121 - Bulk Asbestos Analysis of Hazardous Waste

As of 4/27/2012, this list supersedes all previous lists for this certificate number.
Customers: Please verify the current accreditation standing with the State.

121.010 001 Bulk Asbestos EPA 600/M4-82-020

Field of Testing: 126 - Microbiology of Recreational Water

126.050 001 Total Coliform and E. coli SM9223

126.080 001 Enterococci IDEXX
