



ENTEK CONSULTING GROUP, INC.

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

April 15, 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 various exterior building components, adjacent children's playground equipment, picnic tables, and pool area. You also requested a lead in soil assessment for near surface soil found in various locations surrounding the rifle and pistol range building and adjacent areas.

The lead assessment by Entek was limited in scope, and only included surface dust sampling of exterior building components and adjacent structures, and surface soil sampling surrounding the range building and adjacent areas 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. The Department of Toxic Substances Control (DTSC) has various regulatory standards which may also apply.

This limited lead risk assessment was conducted on April 13, 2016 by Mr. Blake Howes, a CDPH certified Lead Inspector/Assessor to evaluate lead hazards associated with lead dust on surfaces and in surface soil composition. The lead risk assessment included collection of wipe samples of exterior building components including the roof, exterior concrete walkway, and main entry door handles. Wipe samples were also collected from nearby structures, including a picnic table, a public pool concrete deck, and children's playground equipment. Entek collected a total of seven bulk samples of dust from surfaces on or surrounding the range building. 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 seven samples collected at the project site. A total of 11 soil samples were collected from various locations surrounding the range building, including the archery range located west of the shooting range building and the picnic area located east 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. (FASI) located in Hayward, CA and were analyzed by flame atomic absorption spectroscopy (AAS). FASI 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 AIHA.



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Observations

From west to east Mangan Park includes a soccer field, an archery range, the rifle and pistol range building, a picnic area, a public pool with pool house building, children's playground equipment, and additional soccer fields.

- West Soccer Field: The field is grass covered dirt with metal goal posts at either end. This field is located at the far west side of the park.
- Archery Range: Located between the firearm range building and the west soccer field, the archery range is a grass covered dirt range with static targets located on the east side. These targets consist of hay bales in front of plywood with a metal supporting structure. The targets are located in a dirt area bound by concrete.
- Rifle & Pistol Range Building: This building is a single story slab on grade structure with concrete, brick, and stucco exterior components. The roof is a multi-tiered rolled composition asphalt roof system with exhaust fans that extend from the interior of the shooting range to the exterior. The building is surrounded by grass and dirt with several concrete walkways.
- Picnic Area: This area consists of grass covered dirt with trees and multiple picnic benches located east of the range building rear access road.
- Public Pool Area: The pool area is fenced off with wrought iron and has a single story pool house building located on the north side. The olympic sized pool is surrounded by a concrete deck extending at least 10 feet on all sides.
- Children's Playground Equip: The playground area is located northeast of the public pool. The area has several play structures with bark and wood chip fill on the ground surface.
- East Soccer Fields: There are two fields with grass covered dirt and metal goal posts at both ends. These fields are located at the far east side of the park.

The roof of the Mangan Rifle and Pistol Range Building is visibly discolored at ventilation fan exhaust areas in multiple locations directly above the shooting range room. These air exhaust fans are unfiltered. The discoloration is limited to the areas covered by the exhaust fan housings. No visible discoloration is present in any of the surface soil surrounding the building, nor in any of the surface soils where samples for lead analysis were collected.

It should be noted that the Sacramento Executive Airport is located directly south of Mangan Park. This airport is in operation and services small propeller driven aircraft. Approximately six aircraft flew directly overhead during this survey, which was completed over the course of several hours.

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. Where possible, 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.



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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 FASI 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 FASI with results reported in milligrams per kilogram (mg/kg). Mg/kg is equivalent to parts per million.

Table 1: List of sample results for lead by surface wipe sampling. Results expressed in micrograms per square foot ($\mu\text{g}/\text{ft}^2$).

Table 1 Lead Surface Wipe Samples	
Location of Wipe Sample	Results ($\mu\text{g}/\text{ft}^2$)
Playground Equipment East of Pool House - Elevated Walkway Structure on West Side	< 8
Playground Equipment East of Pool House - Slide at South Side	< 8
Picnic Table Between Pistol & Rifle Range Building and Pool House - North Table	9
West Side of Pool Deck Between Pistol & Rifle Range Building and Pool - Approximately 6" From Ground Drain at West Side	< 8
Pistol & Rifle Range Building Roof - Upper Level Roof at Center of North Side	2,300
Door Handles of Main North Entry Door of Pistol & Rifle Range Building	2,200
Concrete Walkway Leading to Main North Entry Door of Pistol & Rifle Range Building	1,500
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		
Location of Bulk Sample	Coordinates	Results (mg/kg)
Northwest Side of Pistol & Rifle Range Building, Between 6" and 2' From Exterior Wall. Approximately 5' From Nearest Down Spout.	38°31'18.1"N 121°29'26.6"W	220
West Side of Pistol & Rifle Range Building Approximately 1' From Exterior Wall. No Down Spout Visible.	38°31'17.7"N 121°29'27.4"W	2,800
Top of Incline Approximately 20' From Southwest Corner of Pistol & Rifle Range Building.	38°31'17.2"N 121°29'27.7"W	27
Archery Range Approximately 10' East From Current Position of Soccer Field Goal Posts.	38°31'17.3"N 121°29'30.1"W	21
West Side of Pistol & Rifle Range Building at Bullet Trap Exterior Access Hatch, Approximately 2' From Exterior Wall. No Down Spout Visible.	38°31'17.4"N 121°29'27.4"W	61,000
Lead Surface Soil Sample - Southwest Side of Pistol & Rifle Range Building, Between 2' and 6" From Exterior Wall. No Down Spout Visible.	38°31'17.3"N 121°29'27.3"W	2,300
South Side of Pistol & Rifle Range Building, Approximately 3' From Exterior Wall. No Down Spout Visible.	38°31'17.3"N 121°29'26.7"W	1,100
Southeast Side of Pistol & Rifle Range Building, Approximately 3' From Exterior Wall. 5' From Nearest Down Spout.	38°31'17.5"N 121°29'26.0"W	1,700
East Side of Pistol & Rifle Range Building Near Access Road, Approximately 3' From Exterior Wall. 6' From Nearest Down Spout.	38°31'17.9"N 121°29'25.6"W	130
Picnic Table Area Approximately 35' East of Pistol & Rifle Range Building.	38°31'17.5"N 121°29'24.8"W	32
Northeast Side of Pistol & Rifle Range Building, Approximately 5' From Exterior Wall. 5' From Nearest Down Spout.	38°31'18.2"N 121°29'25.7"W	640

Please note that milligrams per kilogram and parts per million are an equivalent measurement.



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Discussions and Recommendations

This lead assessment identified lead in surface dust on four of the seven wipe samples collected ranging between 9 ug/ft² collected at the picnic bench east of the range building to a concentration of 2,300 ug/ft² collected on the north side of the roof of the range building directly over the shooting range room. Lead concentrations on the concrete walkway leading to the north main entry lobby of the range building were reported at 1,500 ug/ft² and lead on the main entry lobby exterior door handles was reported at 2,200 ug/ft².

No identifiable lead above the method detection limit of 8 ug/ft² was found on the children's playground equipment or public pool concrete deck.

Lead content in the surface soil in the immediate surrounding area of the range building was identified from a concentration of 130 mg/kg to 61,000 mg/kg. Lead content in the surface soil approximately 20 feet west of the range building, in the archery range area, and approximately 35 feet east of the range building in the picnic area was reported at 27 mg/kg, 21 mg/kg, and 32 mg/kg, respectively.

Concentrations of lead on the rifle and pistol range building roof, exterior concrete walkway, and exterior main entry door handles exceed the CDPH criteria established in Title 17 as lead hazards, which are those as having lead dust at greater than 400 ug/ft² on exterior floors or exterior horizontal surfaces.

Concentrations of lead in the soil in the immediate surrounding vicinity of the rifle and pistol range building exceed the CDPH criteria established in Title 17 as lead hazards, which are those as having at or greater than 400 parts per million in children's play areas and at or greater than 1,000 ppm in all other areas. The DTSC may define lead in soil hazards at levels below the CDPH values and should be consulted if involved in cleanup activities.

CDPH criteria should be considered as a starting point to meet for clearance following remediation which may take place. The CDPH Title 17 standard is designed for a single family residence or building structure where children will be present to prevent childhood lead poisoning. Mangan Park is open to the public, including children under the age of six, therefore, the need for the clearance criteria to meet the CDPH Title 17 criteria is warranted.

Any clean-up work that will be undertaken at this facility should be performed by a contractor with CDPH certified lead Workers and certified Lead Supervisors in accordance with Title 17 requirements. Requirements in Title 17 must be followed, since a lead hazard has been identified at this building. In addition, the contractor performing any lead remediation work at this site is required to comply with the work practices, training, and personal protective practices required by Cal/OSHA in 8 CCR 1532.1 (Lead in Construction).

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.



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City of Sacramento
April 15, 2016
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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,

A handwritten signature in blue ink that reads "Blake Howes".

Blake Howes
Project Manager
CDPH Lead Certification #23951

Reviewed by:

A handwritten signature in blue ink that reads "Rick Beall".

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: 4-13-16

Lab: Forensic Analytical Laboratories

Job Number: 16-3934

Turnaround Time: Thursday, 4-14-16 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 ($\mu\text{g}/\text{ft}^2$)	MATERIAL DESCRIPTION and LOCATION	WIPE SAMPLE SIZE (SQUARE INCHES)
ECG-16-3934-01Wipe	< 8	Lead Dust Wipe- Playground Equipment East of Pool House, Elevated Walkway Structure on West Side	144" - (12" X 12")
ECG-16-3934-02Wipe	< 8	Lead Dust Wipe- Playground Equipment East of Pool House, Slide at South Side	144" - (12" X 12")
ECG-16-3934-03Wipe	9	Lead Dust Wipe- Picnic Table Between Pistol & Rifle Range Building and Pool House, North Table	144" - (12" X 12")
ECG-16-3934-04Wipe	< 8	Lead Dust Wipe- West Side of Pool Deck Between Pistol & Rifle Range Building and Pool, Approximately 6" From Ground Drain at West Side	144" - (12" X 12")
ECG-16-3934-05Wipe	2,300	Lead Dust Wipe- Pistol & Rifle Range Building Roof, Upper Level Roof at Center of North Side	144" - (12" X 12")
ECG-16-3934-06Wipe	2,200	Lead Dust Wipe- Door Handles of Main North Entry Door of Pistol & Rifle Range Building	42" - (1" X 42")
ECG-16-3934-07Wipe	1,500	Lead Dust Wipe- Concrete Walkway Leading to Main North Entry Door of Pistol & Rifle Range Building	144" - (12" X 12")
ECG-16-3934-08Wipe	< 8	Lead Dust Wipe- Blank Wipe	n/a

Z:\Clients\City of Sacramento\16-3934 Mangan Park - Lead\Lead Wipe\LeadWipeReport 04-13-16.wpd



Metals Analysis of HUD Wipes

Entek Consulting Group
Black Howes
4200 Rocklin Road, Suite 7

Rocklin, CA 95677

Client ID: A31353
Report Number: M171016
Date Received: 04/14/16
Date Analyzed: 04/14/16
Date Printed: 04/14/16
First Reported: 04/14/16

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

Date(s) Collected: 4/13/16

FALI Job ID: A31353

Total Samples Submitted: 8

Total Samples Analyzed: 8

Sample Number	Lab Number	Area ft2	Analyte	Result	Result Units	Reporting Limit*	Method Reference
ECG-16-3934-01WIPE	30736355	1.00	Pb	< 8	ug/ft2	8	NIOSH 9100/7082
ECG-16-3934-02WIPE	30736356	1.00	Pb	< 8	ug/ft2	8	NIOSH 9100/7082
ECG-16-3934-03WIPE	30736357	1.00	Pb	9	ug/ft2	8	NIOSH 9100/7082
ECG-16-3934-04WIPE	30736358	1.00	Pb	< 8	ug/ft2	8	NIOSH 9100/7082
ECG-16-3934-05WIPE	30736359	1.00	Pb	2300	ug/ft2	80	NIOSH 9100/7082
ECG-16-3934-06WIPE	30736360	0.29	Pb	2200	ug/ft2	90	NIOSH 9100/7082
ECG-16-3934-07WIPE	30736361	1.00	Pb	1500	ug/ft2	40	NIOSH 9100/7082
ECG-16-3934-08WIPE	30736362		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

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.



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: 4-13-16

Lab: Forensic Analytical Laboratories

Job Number: 16-3934

Turnaround Time: Thursday, 4-14-16 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-16-3934-01Wipe	Lead Dust Wipe- Playground Equipment East of Pool House, Elevated Walkway Structure on West Side	144 - (12"x12")
ECG-16-3934-02Wipe	Lead Dust Wipe- Playground Equipment East of Pool House, Slide at South Side	144 - (12"x12")
ECG-16-3934-03Wipe	Lead Dust Wipe- Picnic Table Between Pistol & Rifle Range Building and Pool House, North Table	144 - (12"x12")
ECG-16-3934-04Wipe	Lead Dust Wipe- West Side of Pool Deck Between Pistol & Rifle Range Building and Pool, Approximately 6" From Ground Drain at West Side	144 - (12"x12")
ECG-16-3934-05Wipe	Lead Dust Wipe- Pistol & Rifle Range Building Roof, Upper Level Roof at Center of North Side	144 - (12"x12")
ECG-16-3934-06Wipe	Lead Dust Wipe- Door Handles of Main North Entry Door of Pistol & Rifle Range Building	42 - (1"x42")
ECG-16-3934-07Wipe	Lead Dust Wipe- Concrete Walkway Leading to Main North Entry Door of Pistol & Rifle Range Building	144 - (12"x12")
ECG-16-3934-08Wipe	Lead Dust Wipe- Blank Wipe	n/a

Z:\Clients\City of Sacramento\16-3934 Mangan Park - Lead\Lead Wipe\LeadWipeRqt 04-13-16.wpd

Delivered by:

Via FedEx - *Blake Howes*

Date: *APR 14 2016* 3:20 AM

Time: *3:20* AM/PM

Received by:

[Signature]

Date: *APR 14 2016*

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: 4-13-16

Lab: Forensic Analytical Laboratories

Job Number: 16-3934

Turnaround Time: Thursday, 4-14-16 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-16-3934-01Soil	220		Lead Surface Soil Sample - Northwest Side of Pistol & Rifle Range Building, Between 6" and 2' From Exterior Wall. Approximately 5' From Nearest Down Spout. 38°31'18.1"N 121°29'26.6"W
ECG-16-3934-02Soil	2,800		Lead Surface Soil Sample - West Side of Pistol & Rifle Range Building Approximately 1' From Exterior Wall. No Down Spout Visible. 38°31'17.7"N 121°29'27.4"W
ECG-16-3934-03Soil	27		Lead Surface Soil Sample - Top of Incline Approximately 20' From Southwest Corner of Pistol & Rifle Range Building. 38°31'17.2"N 121°29'27.7"W
ECG-16-3934-04Soil	21		Lead Surface Soil Sample - Archery Range Approximately 10' East From Current Position of Soccer Field Goal Posts. 38°31'17.3"N 121°29'30.1"W
ECG-16-3934-05Soil	61,000		Lead Surface Soil Sample - West Side of Pistol & Rifle Range Building at Bullet Trap Exterior Access Hatch, Approximately 2' From Exterior Wall. No Down Spout Visible. 38°31'17.4"N 121°29'27.4"W
ECG-16-3934-06Soil	2,300		Lead Surface Soil Sample - Southwest Side of Pistol & Rifle Range Building, Between 2' and 6" From Exterior Wall. No Down Spout Visible. 38°31'17.3"N 121°29'27.3"W
ECG-16-3934-07Soil	1,100		Lead Surface Soil Sample - South Side of Pistol & Rifle Range Building, Approximately 3' From Exterior Wall. No Down Spout Visible. 38°31'17.3"N 121°29'26.7"W
ECG-16-3934-08Soil	1,700		Lead Surface Soil Sample - Southeast Side of Pistol & Rifle Range Building, Approximately 3' From Exterior Wall. 5' From Nearest Down Spout. 38°31'17.5"N 121°29'26.0"W

SAMPLE #	LEAD RESULT (mg/kg)	LEAD RESULT (ppm)	MATERIAL DESCRIPTION/LOCATION
ECG-16-3934-09Soil	130		Lead Surface Soil Sample - East Side of Pistol & Rifle Range Building Near Access Road, Approximately 3' From Exterior Wall. 6' From Nearest Down Spout. 38°31'17.9"N 121°29'25.6"W
ECG-16-3934-10Soil	32		Lead Surface Soil Sample - Picnic Table Area Approximately 35' East of Pistol & Rifle Range Building. 38°31'17.5"N 121°29'24.8"W
ECG-16-3934-11Soil	640		Lead Surface Soil Sample - Northeast Side of Pistol & Rifle Range Building, Approximately 5' From Exterior Wall. 5' From Nearest Down Spout. 38°31'18.2"N 121°29'25.7"W



Metals Analysis of Soils - TTLC

Entek Consulting Group
Black Howes
4200 Rocklin Road, Suite 7

Rocklin, CA 95677

Client ID: A31353
Report Number: M171018
Date Received: 04/14/16
Date Analyzed: 04/14/16
Date Printed: 04/14/16
First Reported: 04/14/16

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

Date(s) Collected: 4/13/16

FALI Job ID: A31353

Total Samples Submitted: 11

Total Samples Analyzed: 11

Sample Number	Lab Number	Analyte	Result	Result Units	Reporting Limit*	Method Reference
ECG-16-3934-01SOIL	30736366	Pb	220	mg/kg	20	EPA 3050B/7420
ECG-16-3934-02SOIL	30736367	Pb	2800	mg/kg	200	EPA 3050B/7420
ECG-16-3934-03SOIL	30736368	Pb	27	mg/kg	6	EPA 3050B/7420
ECG-16-3934-04SOIL	30736369	Pb	21	mg/kg	6	EPA 3050B/7420
ECG-16-3934-05SOIL	30736370	Pb	61000	mg/kg	3000	EPA 3050B/7420
ECG-16-3934-06SOIL	30736371	Pb	2300	mg/kg	200	EPA 3050B/7420
ECG-16-3934-07SOIL	30736372	Pb	1100	mg/kg	60	EPA 3050B/7420
ECG-16-3934-08SOIL	30736373	Pb	1700	mg/kg	200	EPA 3050B/7420
ECG-16-3934-09SOIL	30736374	Pb	130	mg/kg	6	EPA 3050B/7420
ECG-16-3934-10SOIL	30736375	Pb	32	mg/kg	6	EPA 3050B/7420
ECG-16-3934-11SOIL	30736376	Pb	640	mg/kg	30	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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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: 4-13-16

Lab: Forensic Analytical Laboratories

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Sacramento, CA 95822

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SAMPLE #	MATERIAL DESCRIPTION/LOCATION
ECG-16-3934-01Soil	Lead Surface Soil Sample - Northwest Side of Pistol & Rifle Range Building, Between 6" and 2' From Exterior Wall. Approximately 5' From Nearest Down Spout. 38°31'18.1"N 121°29'26.6"W
ECG-16-3934-02Soil	Lead Surface Soil Sample - West Side of Pistol & Rifle Range Building Approximately 1' From Exterior Wall. No Down Spout Visible. 38°31'17.7"N 121°29'27.4"W
ECG-16-3934-03Soil	Lead Surface Soil Sample - Top of Incline Approximately 20' From Southwest Corner of Pistol & Rifle Range Building. 38°31'17.2"N 121°29'27.7"W
ECG-16-3934-04Soil	Lead Surface Soil Sample - Archery Range Approximately 10' East From Current Position of Soccer Field Goal Posts. 38°31'17.3"N 121°29'30.1"W
ECG-16-3934-05Soil	Lead Surface Soil Sample - West Side of Pistol & Rifle Range Building at Bullet Trap Exterior Access Hatch, Approximately 2' From Exterior Wall. No Down Spout Visible. 38°31'17.4"N 121°29'27.4"W
ECG-16-3934-06Soil	Lead Surface Soil Sample - Southwest Side of Pistol & Rifle Range Building, Between 2' and 6" From Exterior Wall. No Down Spout Visible. 38°31'17.3"N 121°29'27.3"W
ECG-16-3934-07Soil	Lead Surface Soil Sample - South Side of Pistol & Rifle Range Building, Approximately 3' From Exterior Wall. No Down Spout Visible. 38°31'17.3"N 121°29'26.7"W
ECG-16-3934-08Soil	Lead Surface Soil Sample - Southeast Side of Pistol & Rifle Range Building, Approximately 3' From Exterior Wall. 5' From Nearest Down Spout. 38°31'17.5"N 121°29'26.0"W
ECG-16-3934-09Soil	Lead Surface Soil Sample - East Side of Pistol & Rifle Range Building Near Access Road, Approximately 3' From Exterior Wall. 6' From Nearest Down Spout. 38°31'17.9"N 121°29'25.6"W
ECG-16-3934-10Soil	Lead Surface Soil Sample - Picnic Table Area Approximately 35' East of Pistol & Rifle Range Building. 38°31'17.5"N 121°29'24.8"W
ECG-16-3934-11Soil	Lead Surface Soil Sample - Northeast Side of Pistol & Rifle Range Building, Approximately 5' From Exterior Wall. 5' From Nearest Down Spout. 38°31'18.2"N 121°29'25.7"W

Z:\Clients\City of Sacramento\16-3934 Mangan Park - Lead\Soil Sample\LeadBulkRqtSoil 04-13-16.wpd

Delivered by: Via FedEx - *Blake Howes*

Date: 4/13/16 Time: 3:20 AM/PM

Received by: _____

Date: 1/1 Time: _____ AM/PM



Sample Numbers are Preceded by ECG-16-3934-

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

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

Lead Wipe & Lead Surface Soil Sample Locations
Collected by: Blake Howes
April 13, 2016
Project #16-3934



01Soil

07Wipe

06Wipe

11Soil

08Soil

09Soil

10Soil

03Wipe

34th Ave

34th Ave

34th Ave

05Wipe

02Soil

05Soil

06Soil

07Soil



Sample Numbers are Preceded by ECG-16-3934-

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

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

Lead Wipe & Lead Surface Soil Sample Locations
Collected by: Blake Howes
April 13, 2016
Project #16-3934



04Wipe

01Wipe

02Wipe



Sample Numbers are Preceded by ECG-16-3934-

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

Entek Consulting Group, Inc.
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Rocklin, CA 95677
Map Not to Scale

Lead Wipe & Lead Surface Soil Sample Locations
Collected by: Blake Howes
April 13, 2016
Project #16-3934

LEAD HAZARD EVALUATION REPORT

Section 1 – Date of Lead Hazard Evaluation 4-13-16

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 4-15-16

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



Playground Structure Sample 01Wipe



Playground Structure Sample 02Wipe



Picnic Area Sample 03Wipe



Pool Area Sample 04Wipe



Range Building Roof Sample 05Wipe



Range Building Exterior Walkway
Sample 07Wipe



Range Building Door Handle Sample 06Wipe



Visible Roof Discoloration at Vent



Range Building Sample 05Soil



Range Building Sample 08Soil



Range Building Sample 03Soil



Picnic Area Sample 10Soil



Archery Range Sample 04Soil

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



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		



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

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.

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
