May 1, 2014 Project No. 1336.004

Mr. Mike Duggan, P.E.
Senior Civil Engineer
CALIFORNIA DEPARTMENT OF
FORESTRY AND FIRE PROTECTION
P.O. Box 944246
Sacramento, CA 94244-2460

Hazardous Building Material Survey
Former San Marcos Forest Fire Station
San Marcos, California

Dear Mr. Duggan:

This report documents a hazardous building material survey (the survey) at the former Department of Forestry and Fire Protection (CAL FIRE) station located at 236 Pico Avenue in San Marcos, California (the site). The survey was requested by CAL FIRE prior to demolition of the existing structures. A copy of the survey is included as Attachment 1.

RESULTS OF THE SURVEY

The survey was completed by Advantage Environmental Consultants, LLC (AEC), a U.S. Environmental Protection Agency (EPA)-certified building inspector for Asbestos-Containing Building Materials and a California Department of Health Services Certified Lead Inspector/Assessor. The survey was performed on March 18, 2014 and included inspection and testing for possible asbestos-containing materials (ACM) and lead-based paint (LBP), as well as evaluation for polychlorinated biphenyl (PCB)-containing light ballasts and mercury-containing thermostats.

- Fifteen representative building material samples were collected and analyzed for asbestos. Based on the results, three of the samples were classified as ACM. Specifically, three samples of the green, 9-inch-square vinyl floor tiles (VFT) in the former office/bunkhouse contained 7 percent chrysotile asbestos. However, the VFT were reported to be in good, undamaged condition.

- As part of the LBP survey, 30 measurements were made using an X-ray fluorescence (XRF) meter. Sixteen of the 30 measurements indicated the presence of lead-based paint based on the California Occupational Safety and Health Commission standard of 0.7 milligrams per square centimeter. Based on the XRF measurements, four bulk paint and wood substrate samples were collected and submitted to an analytical laboratory for tested for total lead using

EPA Method 6010B and for soluble lead using the Soluble Threshold Limit Concentration (STLC) and Toxicity Characteristic Leaching Procedure (TCLP) extraction methods. Total lead concentrations ranged from 1,970 to 42,400 milligrams per kilogram, with STLC concentrations ranging from 142 to 850 milligrams per liter (mg/L) and TCLP concentrations ranging from 8.02 to 55.7 mg/L. Based on these results, the painted building materials would be considered a RCRA (Resource Conservation and Recovery Act) hazardous waste for disposal purposes once removed. It should be noted that multiple layers of old and newer building materials were found during the survey. The older building materials most likely are from the original construction, while the newer building materials were used to cover the original building materials. It appears that the high lead concentrations are associated with the older materials.

- No suspected PCB or mercury containing building components were noted during the survey.

RECOMMENDATIONS

Based on the above and the conclusions and recommendations presented in the hazardous building material survey report (Attachment 1), Avocet recommends the following:

- ACMs – Overall, the asbestos-containing VFT is in good condition and no abatement or mitigation measures are required prior to building demolition. Consistent with AEC's recommendation (Attachment 1), Avocet recommends that ACMs be removed prior to general building demolition.

- LBP – The older building materials contain high concentrations of lead and will be a hazardous waste once the buildings are demolished. Avocet recommends that wooden building materials coated and/or impregnated with LBP, as identified using the XRF meter, be segregated from other demolition debris and managed as RCRA hazardous waste. It is noted in this regard that, based on the very high lead concentrations reported, lead-impacted wastes should not be mixed with other building debris to lower the average lead content.

- Assessment for Possible Lead-Impacted Soil - Based on the high lead concentrations reported in certain paint and the wooden substrate, Avocet recommends sampling around the perimeters of the affected buildings to assess whether near-surface soil has been impacted by LBP debris. Avocet can provide a fee proposal/work plan for the soil sampling if requested by CAL FIRE.

If you have any questions regarding this report or require additional information, please do not hesitate to call.

Respectfully submitted,

AVOCET ENVIRONMENTAL, INC.

Deke Siren, P.G.
Project Manager

DCS:sh
Attachment
cc: Mr. A.K. Jain – CAL FIRE (electronic only)
Mr. Dan O'Brien – Real Estate Services Division (electronic only)

P:\1336 San Marcos Forest Fire Stn_CAL FIRE\07_Haz Material Survey Rpt\SupportingDocs\Haz Material Survey_2014-05-01.docx

Attachment 1

AEC's Survey

AVOCET
ENVIRONMENTAL, INC.

HAZARDOUS BUILDING MATERIALS SURVEY

CAL FIRE Facility
236 Pico Avenue
San Marcos, CA 92069

AEC Project No. 14-044SD
April 17, 2014

Prepared for:

Avocet Environmental, Inc.
1 Technology Drive, Suite C515
Irvine, California 92618-5302

Prepared by:

Advantage Environmental Consultants, LLC
145 Vallecitos De Oro, Suite 201
San Marcos, California 92069
Phone (760) 744-3363 • FAX (760) 744-3383

ADVANTAGE
ENVIRONMENTAL
CONSULTANTS, LLC.

April 17, 2014

Mr. Deke Siren
Avocet Environmental, Inc.
1 Technology Drive, Suite C515
Irvine, California 92618

Subject: **Hazardous Building Materials Survey**
CAL FIRE Facility
236 Pico Avenue
San Marcos, CA 92069
AEC Project # 14-044SD

Dear Mr. Siren:

Advantage Environmental Consultants, LLC (AEC) has performed a Hazardous Building Materials Survey at the above referenced property. The following report describes the survey protocol, sampling procedures and laboratory results of the materials tested. AEC has provided conclusions and recommendations based on the results of the survey.

We appreciate the opportunity to be of service to Avocet Environmental, Inc. If you should have any questions regarding this report, please contact Dan Weis at (760) 744-3363.

Sincerely,

ADVANTAGE ENVIRONMENTAL CONSULTANTS, LLC

Daniel Weis, R.E.H.S.
Branch Manager
Western Regional Office

John Payne, CAC
Project Manager

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APPENDIX A Bulk Sampling Log, Analytical Laboratory Reports and Chain of Custody

1.0 Purpose and Methodology

The purpose of the Hazardous Building Material Survey was to locate and identify visible and accessible potentially hazardous materials that would require abatement prior to renovation of the subject structure. The survey focused on asbestos containing materials (ACMs), lead-based paint (LBP), polychlorinated biphenyls (PCBs) and potential mercury sources within and on the structures at the subject property. The property is a former CAL FIRE facility that consists of a 1,500 square foot main building (former office/barracks) and an approximately 800 square foot garage. The structures were reportedly constructed in the 1950s.

A State of California Certified Asbestos Consultant and United States Environmental Protection Agency (USEPA) certified building inspector for Asbestos- Containing Building Materials and a California Department of Health Services Certified Lead Inspector/Assessor performed the field inspection on March 18, 2014. Potential ACM and LBP identification was performed by entering each functional space and assessing structural/mechanical components and architectural finishes. The physical conditions, friability, accessibility, activity and damage of suspect ACM was also assessed and documented. The LBP survey was accomplished by entering each room equivalent. A room equivalent is an identifiable part of a building such as a room, office, hallway, staircase, foyer and exteriors. Readings were obtained from each building component identified within each room equivalent by the use of a hand held X-Ray Fluorescence (XRF) lead-based paint analyzer. Each reading location and condition of paint was documented. Select bulk samples of paint and wooden substrate were also analyzed for total and soluble lead at a stationary analytical laboratory. An evaluation for polychlorinated biphenyl (PCB) containing light ballasts and mercury containing thermostats was also conducted during the survey.

The ACM survey methodology is summarized below:

- Each suspect ACM identified during the survey was sampled in accordance with sampling guidelines established by the USEPA. The following summarizes the sampling procedures utilized:

- Building materials were categorized into homogeneous materials. A homogeneous material is defined as being uniform in texture, color, and date of application.

- A sampling scheme was developed based upon the location and quantities of the various homogeneous materials.

- Bulk samples were collected by extracting a representative section of the selected material, placing it in a sampling container and assigning a unique sample number. The samples were placed into a sealed shipping container for delivery to an accredited laboratory for analysis by polarized light microscopy (PLM).

- The personnel performed proper decontamination procedures to prevent the spread of secondary contamination.

Each bulk sample was recorded on a bulk sample log and possession of the samples was tracked by a chain of custody record. The laboratory analyzed the building material samples and reported results in accordance with State of California protocol. The lower limit of reliable detection for this method is 1%. Samples that contain more than 1% of asbestos are reported in

5% ranges. Samples which contain asbestos in a concentration lower than the limit of reliable detection (<1%) are considered "Trace."

All bulk samples were analyzed by PLM in accordance with the "Interim Method for the Determination of Asbestos in Bulk Insulation Samples EPA - 600/M4-82-020" dated December 1982 and adopted by the National Voluntary Laboratory Accreditation Program (NVLAP) Title 15, part 7 of the Code of Federal Register as affiliated with the National Institute for Standards and Testing (NIST).

Fifteen samples were obtained at the subject buildings and analyzed for asbestos content by Forensic Analytical of Rancho Dominguez, California. Forensic Analytical is accredited by the American Industrial Hygiene Association, NVLAP, NIST, and is a successful participant in the Proficiency Analytical Testing Program (PAT).

The LBP survey methodology is summarized below:

As stated previously, LBP readings were collected utilizing an XRF analyzer. Readings were collected in accordance with Chapter 7 of the HUD Guidelines for Evaluation and Control of Lead-Based Paint Hazards in Housing and U.S. Environmental Protection Agency (EPA) 40 CFR part 745 and Title X of the 1992 Housing and Community Development Act. A total of 30 XRF readings were obtained during the survey.

The California Department of Health Services standard for the definition of LBP is 1.0 mg/cm^2 or 5000 parts per million (ppm). However, the California Occupational Safety and Health Commission (CALOSHA) standard for the definition of LBP is 0.7 mg/cm^2 or 600 ppm and requires that all workers be properly protected when working with building components containing any level of lead in accordance with Title 8 CCR Section 1532.1.

Four bulk samples of paint and wooden substrate were also obtained at the subject buildings and analyzed for total lead by EPA Method 6010B and for soluble lead utilizing STLC and TCLP extraction methods. The samples were analyzed by American Environmental Testing Laboratory, Inc. of Burbank California.

The PCB and mercury survey methodology is summarized below:

A representative number of accessible light ballasts were inspected for “No PCBs” markings. AEC did not sample ballasts for PCB content during this qualitative survey. Visible and accessible thermostat switches throughout the site structure were inspected for their potential to contain mercury.

2.0 Findings

ASBESTOS CONTAINING MATERIALS SAMPLE RESULTS AND LOCATIONS

One of the building materials sampled during the survey tested positive for ACM and is noted in the table below.

Material	Sample Number	Asbestos Content	Location of Material	Friable	Damage
Green 9x9 Vinyl Floor Tile and Mastic	01 02 03	Tile (7% Chrysotile) Mastic (Non Detect)	Office Building Kitchen Area and Back Offices	No	No

The remaining building materials sampled during the survey tested negative for ACM and are noted in the table below.

Material	Sample Number	Location of Material	Friable	Damage
Drywall and Joint Compound	04 05 06	Throughout Office Building Walls and Ceiling	No	No
White Vinyl Floor Tile and Mastic	07	Office Building Entry	No	No
Grey Vinyl Tile and Mastic	08 09 10	Office Building Hallway and Open Area	No	No
Brown Vinyl Floor Tile and Mastic	11	Office Building Restroom	No	No
Drywall and Joint Compound	12 13 14	Throughout Garage Building Walls	No	No
Roofing Shingles	15	Throughout Roofs	No	No

The bulk sample logs and analysis report, located in Appendix A, contain a listing of all analyzed samples, sample locations, and analytical results. Results are reported in percent asbestos by volume and indicate the type(s) of asbestos. Other common non-asbestos components may also be noted on the analytical report. A hazard assessment of ACM identified during the survey is presented in the table below. For the purposes of the hazard assessment, “good” condition represents material that shows little or no damage and requires no remedial action if left in place, “moderate” condition represents material that is somewhat damaged and is in need of minor repairs, and a “significantly damaged” designation represents material that is in need of immediate remedial action. As shown in the table, the ACM identified during the survey is noted as being in good condition.

Material	Location of Material	Hazard Condition
Green 9x9 Vinyl Floor Tile and Mastic	Office Building Kitchen Area and Back Offices	Good

Good - Material shows little or no damage and requires no remedial action.
Moderate - Material is somewhat damaged and is in need of minor repairs.
Significantly Damaged - Material is in need of immediate remedial action.

LEAD BASED PAINT SAMPLE RESULTS AND LOCATIONS

Of the 30 building component surfaces analyzed for lead using the XRF instrument, lead concentrations greater than 0.7 mg/cm^2 were found in 16 of the samples. The lead sampling results are shown on the table below.

Sample Number	Location	Component	Substrate	Condition	Pb mg/cm^2
NA	----	Calibration	----	----	1.0
NA	----	Calibration	---	----	1.0
NA	---	Calibration	---	---	1.1
1	Office Building Exterior-A	Wall First Layer	Wood	Good	0.0
2	Office Building Exterior-B	Wall First Layer	Wood	Good	0.0
3	Office Building Exterior-C	Wall First Layer	Wood	Good	0.0
4	Office Building Exterior-D	Wall First Layer	Wood	Good	0.0
5	**Office Building Exterior-A**	**Wall Second Layer**	**Wood**	**Fair**	**7.2**
6	**Office Building Exterior-A**	**Wall Second Layer**	**Wood**	**Fair**	**6.9**
7	**Office Building Exterior-A**	**Trim**	**Wood**	**Good**	**2.7**
8	**Office Building Exterior-B**	**Eave**	**Wood**	**Good**	**3.4**
9	Office Building Exterior-A	Window	Wood	Good	0.0
10	**Office Building Exterior-A**	**Door Jamb**	**Wood**	**Good**	**3.6**
11	**Office Building Exterior-C**	**Door**	**Wood**	**Good**	**1.5**
12	Office Building Interior-B	Wall	Drywall	Good	0.0
13	Office Building Interior-A	Wall	Drywall	Good	0.0
14	**Office Building Interior-A**	**Door Jamb**	**Wood**	**Good**	**1.6**
15	Office Building Interior-A	Door	Wood	Good	0.9
16	**Office Building Interior-A**	**Door Jamb**	**Wood**	**Good**	**1.3**
17	**Office Building Interior-A**	**Door**	**Wood**	Good	**1.2**
18	Office Building Interior-C	Window	Wood	Good	0.4
19	Garage Building Exterior-A	Wall First Layer	Wood	Good	0.2
20	Garage Building Exterior-B	Wall First Layer	Wood	Good	0.1
21	Garage Building Exterior-C	Wall First Layer	Wood	Good	0.0
22	**Garage Building Exterior-B**	**Wall Second Layer**	**Wood**	**Poor**	**7.1**
23	**Garage Building Exterior-B**	**Wall Second Layer**	**Wood**	**Poor**	**7.1**
24	**Garage Building Exterior-A**	**Trim**	**Wood**	**Fair**	**6.2**
25	**Garage Building Exterior-B**	**Trim**	**Wood**	**Fair**	**5.9**
26	**Garage Building Exterior**	**Eaves**	**Wood**	**Fair**	**4.8**
27	**Garage Building Exterior-A**	**Door**	**Wood**	**Fair**	**2.7**
28	**Garage Building Exterior-A**	**Door Jamb**	**Wood**	**Fair**	**2.3**
29	Garage Building Interior-A	Wall	Drywall	Good	0.0
30	Garage Building Interior-B	Wall	Drywall	Good	0.0

As stated previously, four bulk samples of paint and wooden substrate were also obtained at the subject buildings and analyzed for total lead by EPA Method 6010B and for soluble lead utilizing STLC and TCLP extraction methods. The results are noted in the table below.

Sample Number	Location	Substrate	Total Lead (mg/kg)	STLC Lead (mg/l)	TCLP Lead (mg/l)
P-1	Garage Building Exterior Outer Layer (Light Green)	Wood	1,970	194	8.02
P-2	Garage Building Exterior Second (Dark Green)	Wood	8,230	850	44.9
P-3	Office Building Interior (Grey)	Wood	16,700	503	55.7
P-4	Office Building Exterior (Dark Green)	Wood	42,400	142	18.3

Total and soluble lead results indicate that painted building materials of the subject buildings would be considered a hazardous waste (for disposal purposes) when removed from the property.

PCB AND MERCURY EVALUATION RESULTS

No suspect PCB or mercury containing building components were observed during the survey.

3.0 Conclusions and Recommendations

AEC is providing the following conclusions and recommendations based on the results of this survey:

- It is AEC's opinion that the ACM identified during this survey can be managed in place under an Asbestos Operations and Maintenance (O&M) Plan. The ACM identified is in good condition, and not likely to pose an environmental and/or public health risk as long as the material is maintained in its present condition. However, it is our understanding that the Site structures are slated for demolition in the near future. Thus, drafting of a Site specific O&M plan prior to demolition is not considered to be worth the expense to the client.

- All ACM must be removed if it is to be disturbed during planned demolition. Current federal and state regulations require any repair, renovation and/or demolition of any ACM should be conducted only by workers and/or contractors who have been properly trained in the correct handling of ACM. All asbestos work should be accomplished under the direction of an Independent State Certified Asbestos Consultant with oversight performed by a State Certified Site Surveillance Technician. The ACM must be disposed of at an approved facility licensed to handle such waste. It is the responsibility of the selected abatement contractor to quantify, characterize, profile and properly dispose of all ACM in and on the Site structures prior to building demolition.

- The OSHA Construction Asbestos Standard requires building and/or facility owners to notify the following persons of the presence, location and quantity of ACM or material presumed to be ACM, at the work sites in their buildings and facilities:

  (A) Prospective employers applying or bidding for work whose employees reasonably can be expected to work in or adjacent to areas containing such material;
  (B) Employees of the owner who will work in or adjacent to areas containing such material;
  (C) On multi-employer worksites, all employers of employees who will be performing work within or adjacent to areas containing such materials; and
  (D) Tenants who will occupy areas containing such material.

- LBP was identified on multiple buildings materials at the property. The materials must be removed by an abatement contractor licensed to handle and dispose of such materials. Additional sampling and analysis of the building materials may also be conducted by the demolition/abatement contractor for waste profiling purposes and such sampling will depend on the disposal facility that the selected contractor chooses to deliver the material. At this time, based on analytical data obtained during the survey, it is anticipated that painted building materials of the subject buildings would be considered a hazardous waste (for disposal purposes) when removed from the property.

- AEC recommends that as part of the bid process for demolition of the existing structures at the Site, this document should be provided to prospective demolition contractors so that the abatement/removal of ACM and LBP painted surfaces can be incorporated in to such contractor bids. **It is the contractor's responsibility to confirm ACM and LBP locations and quantities prior to bid submittals. In addition, the demolition contractor will also be responsible for the quantity estimation and removal of any building materials**

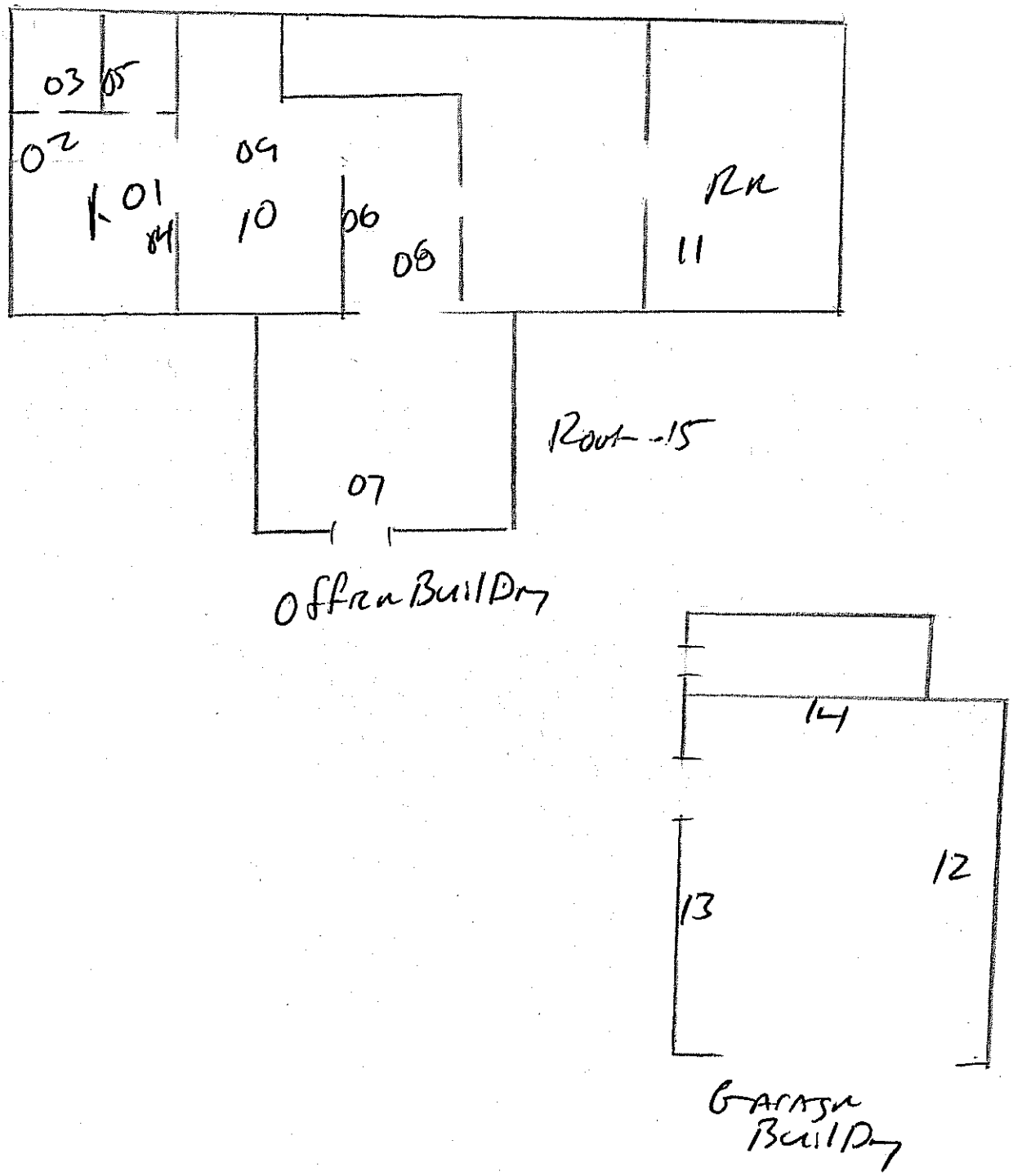
falling under the category of Universal Waste, which would include, but not be limited to potential Freon containing air conditioning units and refrigerators, potential PCB-containing light ballasts, potential tritium-containing exit signs and potential mercury-containing thermostats, switches, and fluorescent light tubes.

AEC warrants that our services are performed within the limits prescribed by our client with the usual thoroughness and competence of the engineering profession. Any recommendations in this report are professional opinions based solely on visual observations and analytical analyses, as described in this report. Because the scope of services was limited to accessible and visible suspect ACM, potential LBP, and intrusive investigative techniques were not contracted for, it is possible that unrecognized ACM and LBP might exist. Any unassessed materials present in inaccessible locations and areas that were not visible during the survey (if encountered at a later time) must be sampled for ACM or LBP prior to disturbance. Opinions and recommendations presented herein apply to Site conditions existing at the time of our investigation and cannot necessarily apply to Site changes of which this office is not aware and/or has not had the opportunity to evaluate.

APPENDIX A

Bulk Sampling Log, Analytical Laboratory Reports
and Chain of Custody

SITE DRAWING



CIRCLE ONE

N
N N
N

DRAWING NOT TO SCALE

CLIENT:

BUILDING ADDRESS: 236 Pico Ave
San Marcos

PROJECT NUMBER#

FLOOR

ADVANTAGE ENVIRONMENTAL CONSULTANTS, LLC
145 Vallecitos De Oro, Suite 201
San Marcos, California 92069

ASBESTOS BULK SAMPLE LOG

Page 1 of 2

Client Name: _____

Project Location: 236 PICO AVE SAN MARCOS

Date: 3-18-14 **Field Technician:** [illegible]

Project Number: 14-1147 **Priority: ASAP** ___ **24 HR** ✓ **3-5 Days** ___

SAMPLE NUMBER	SAMPLE LOCATION	MATERIAL DESCRIPTION	SQUARE FOOTAGE
01	Office Built Green Kitchen Area	Vinyl Floor Tile And Mastic	
02	↓ ↓	↓ ↓	
03	↓ ↓	↓ ↓	
04	Kitchen	Dynamic Floor Company	
05	Bedroom	↓ ↓	
06	Hallway	↓ ↓	
07	Entry White	Vinyl Floor Tile And Mastic	
08	Hallway	Vinyl Floor Tile And Mastic	
09	Open Area	↓ ↓	
10	Open Area	↓ ↓	

Chain of Custody **Analytical Method: PLM:** ✓ **TEM:** ____ **Other:** _____

Sampled By		**Date**	**Time**
Relinquished By		**Date**	**Time**
Received By	[illegible]	**Date** 3/20/14	**Time** 9:22 am
Relinquished By		**Date**	**Time**
Received By		**Date**	**Time**

ADVANTAGE ENVIRONMENTAL CONSULTANTS, LLC
145 Vallecitos De Oro, Suite 201
San Marcos, California 92069

ASBESTOS BULK SAMPLE LOG

Client Name: _____

Project Location: 236 Pico Ave San Marcos

Date: 3-18-14 Field Technician: John Rayne

Project Number: 14-1147 Priority: ASAP ___ 24 HR 7 3-5 Days ___

SAMPLE NUMBER	SAMPLE LOCATION	MATERIAL DESCRIPTION	SQUARE FOOTAGE
11	Restroom	Vinyl Floor Tile and Mastic	
12	Garage Building	Drywall and Tone Compound	
13	↓ ↓	↓ ↓	
14			
15	Roof	Shingles	

Chain of Custody Analytical Method: PLM: 7 TEM: ____ Other: _____

Sampled By		Date	Time
Relinquished By		Date	Time
Received By	J. Carillo D/O	Date 3/20/14	Time 9:22 am
Relinquished By		Date	Time
Received By		Date	Time

Bulk Asbestos Analysis

(EPA Method 600/R-93-116, Visual Area Estimation)

Ambient Environmental Inc
John Payne
1464 6th Street

Norco, CA 92860

Client ID: 5697
Report Number: B188771
Date Received: 03/20/14
Date Analyzed: 03/21/14
Date Printed: 03/21/14
First Reported: 03/21/14

Job ID/Site: 14-1147; 236 Pico Ave., San Marcos

Date(s) Collected: 03/18/2014

FALI Job ID: 5697
Total Samples Submitted: 15
Total Samples Analyzed: 15

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
01	50852926						
Layer: Green Tile		Chrysotile	7 %				
Layer: Black Mastic			ND				
Total Composite Values of Fibrous Components: Cellulose (Trace)		Asbestos (7%)					
02	50852927						
Layer: Green Tile		Chrysotile	7 %				
Layer: Black Mastic			ND				
Total Composite Values of Fibrous Components: Cellulose (Trace)		Asbestos (7%)					
03	50852928						
Layer: Green Tile		Chrysotile	7 %				
Layer: Black Mastic			ND				
Total Composite Values of Fibrous Components: Cellulose (Trace)		Asbestos (7%)					
04	50852929						
Layer: White Drywall			ND				
Layer: White Skimcoat/Joint Compound			ND				
Layer: Paint			ND				
Layer: White Skimcoat/Joint Compound			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components: Cellulose (20 %) Fibrous Glass (3 %)		Asbestos (ND)					
05	50852930						
Layer: White Drywall			ND				
Layer: White Skimcoat/Joint Compound			ND				
Layer: Paint			ND				
Layer: White Skimcoat/Joint Compound			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components: Cellulose (20 %) Fibrous Glass (3 %)		Asbestos (ND)					

2959 Pacific Commerce Drive, Rancho Dominguez, CA 90221 / Telephone: (310) 763-2374 (888) 813-9417 / Fax: (310) 763-8684

Client Name: Ambient Environmental Inc

Report Number: B188771
Date Printed: 03/21/14

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
06	50852931						
Layer: White Drywall			**ND**				
Layer: White Skimcoat/Joint Compound			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (20 %) Fibrous Glass (3 %)		**Asbestos (ND)**					
07	50852932						
Layer: Off-White Tile			**ND**				
Layer: Tan Mastic with Debris			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
08	50852933						
Layer: Grey Tile			**ND**				
Layer: Tan Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
09	50852934						
Layer: Grey Tile			**ND**				
Layer: Tan Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
10	50852935						
Layer: Grey Tile			**ND**				
Layer: Tan Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
11	50852936						
Layer: Brown Tile			**ND**				
Layer: Tan Mastic			**ND**				
Layer: Wood			**ND**				
Total Composite Values of Fibrous Components: Cellulose (5 %)		**Asbestos (ND)**					
12	50852937						
Layer: White Drywall			**ND**				
Layer: White Skimcoat/Joint Compound			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (20 %) Fibrous Glass (3 %)		**Asbestos (ND)**					
13	50852938						
Layer: White Drywall			**ND**				
Layer: White Skimcoat/Joint Compound			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (20 %) Fibrous Glass (3 %)		**Asbestos (ND)**					

2959 Pacific Commerce Drive, Rancho Dominguez, CA 90221 / Telephone: (310) 763-2374 (888) 813-9417 / Fax: (310) 763-8684

Client Name: Ambient Environmental Inc

Report Number: B188771
Date Printed: 03/21/14

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
14	50852939						
Layer: White Drywall			**ND**				
Layer: White Skimcoat/Joint Compound			**ND**				
Layer: Paint			**ND**				
Layer: White Skimcoat/Joint Compound			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (20 %) Fibrous Glass (3 %)							
15	50852940						
Layer: Grey Roof Shingle			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (65 %)							

Steven Takahashi, Laboratory Supervisor, Rancho Dominguez Laboratory

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

Analytical results and reports are generated by Forensic Analytical Laboratories Inc. (FALI) 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 FALI 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 FALI. The client is solely responsible for the use and interpretation of test results and reports requested from FALI. Forensic Analytical Laboratories Inc. is not able to assess the degree of hazard resulting from materials analyzed. FALI 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. All samples were received in acceptable condition unless otherwise noted.

2959 Pacific Commerce Drive, Rancho Dominguez, CA 90221 / Telephone: (310) 763-2374 (888) 813-9417 / Fax: (310) 763-8684

American Environmental Testing Laboratory Inc.

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San Marcos, CA 92069-

Number of Pages 14
Date Received 03/19/2014
Date Reported 03/26/2014

Telephone: (760)744-3363
Attention: Dan Weis

Job Number	Order Date	Client
72594	03/19/2014	AEC

Project ID: PICO AVENUE
Project Name: 236 Pico Avenue
Site: 236 Pico Avenue
San Marcos, CA 92069

Enclosed please find results of analyses of 4 solid samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

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CHAIN OF CUSTODY RECORD

№ 84558

AETL JOB No. 72594

Page ____ of ____

COMPANY: Advantage Environmental Consultants LLC
PROJECT MANAGER: DW
COMPANY ADDRESS: 145 Vallecitos De Oro Ste. 201 San Marcos CA 92069
PHONE:
FAX:
PROJECT NAME:
PROJECT #:
SITE NAME AND ADDRESS: 236 Pico Avenue San Marcos CA 92069
PO #:

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	Total lead 6010B	STLC lead	TCLP lead							TEST INSTRUCTIONS & COMMENTS
1	P-1	72594.01	3/19/14		Solid	1	N/A	X	X	X							Please ensure that wood substrate and paint are analyzed together after homogenization.
2	P-2	72594.02						X	X	X							Front Light Green
3	P-3	72594.03						X	X	X							Front Dark Green
4	P-4	72594.04						X	X	X							Rear Grey
5																	Rear Dark Green
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS	4	PROPERLY COOLED Y / N / NA	
CUSTODY SEALS Y / N / NA		SAMPLES INTACT Y / N / NA	
RECEIVED IN GOOD COND. Y / N		SAMPLES ACCEPTED Y / N	

TURN AROUND TIME

☒ NORMAL ☐ RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☐ 3 DAYS

DATA DELIVERABLE REQUIRED

☐ HARD COPY
☐ PDF
☐ GEOTRACKER (GLOBAL ID) _____
☐ OTHER (PLEASE SPECIFY) _____

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature:	Signature:	Signature:
Printed Name: DW JP	Printed Name:	Printed Name: Sergio R
Date: 3/19/14 Time: 1315	Date: Time:	Date: 3-19-14 Time: 1715
RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY LABORATORY: AETL 3.**
Signature:	Signature:	Signature:
Printed Name: Sergio R	Printed Name:	Printed Name: Sean Claude
Date: 3-19-14 Time: 1315	Date: Time:	Date: 03/19/14 Time: 1715

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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Project ID: PICO AVENUE
Date Received 03/19/2014
Date Reported 03/26/2014

Telephone: (760)744-3363
Attention: Dan Weis

Job Number	Order Date	Client
72594	03/19/2014	AEC

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 4 samples with the following specification on 03/19/2014.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
72594.01	P-1	03/18/2014	Solid	1
72594.02	P-2	03/18/2014	Solid	1
72594.03	P-3	03/18/2014	Solid	1
72594.04	P-4	03/18/2014	Solid	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6010/7000TCLP) ^ PB	03/26/2014	2	Normal	mg/L
(6010B-STLC) ^ STLC-PB	03/26/2014	2	Normal	mg/L
(6010B.LEAD)	03/26/2014	2	Normal	mg/Kg

The samples were analyzed as specified on the enclosed chain of custody.
No analytical non-conformances were encountered.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

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ANALYTICAL RESULTS

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Site

236 Pico Avenue
San Marcos, CA 92069

Telephone: (760)744-3363
Attn: Dan Weis
Page: 2

Project ID: PICO AVENUE
Project Name: 236 Pico Avenue

AETL Job Number	Submitted	Client
72594	03/19/2014	AEC

Method: (6010B.LEAD), Lead, ICP

QC Batch No: 0324142C1

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			03/24/2014				
Preparation Method			3050B				
Date Analyzed			03/25/2014				
Matrix			Solid				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Lead	2.5	5.0	ND				

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Telephone: (760)744-3363
Attn: Dan Weis
Page: 3

Project ID: PICO AVENUE
Project Name: 236 Pico Avenue

AETL Job Number	Submitted	Client
72594	03/19/2014	AEC

Method: (6010B.LEAD), Lead, ICP

QC Batch No: 0324142C1

Our Lab I.D.			**72594.01**				
Client Sample I.D.			P-1				
Date Sampled			03/18/2014				
Date Prepared			03/24/2014				
Preparation Method			3050B				
Date Analyzed			03/25/2014				
Matrix			Solid				
Units			mg/Kg				
Dilution Factor			100				
Analytes	**MDL**	**PQL**	**Results**				
Lead	250	500	1,970				

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Page: **4**

Project ID: PICO AVENUE
Project Name: 236 Pico Avenue

AETL Job Number	Submitted	Client
72594	03/19/2014	AEC

Method: (6010B.LEAD), Lead, ICP

QC Batch No: 0324142C1

Our Lab I.D.			**72594.02**	**72594.03**			
Client Sample I.D.			P-2	P-3			
Date Sampled			03/18/2014	03/18/2014			
Date Prepared			03/24/2014	03/24/2014			
Preparation Method			3050B	3050B			
Date Analyzed			03/25/2014	03/25/2014			
Matrix			Solid	Solid			
Units			mg/Kg	mg/Kg			
Dilution Factor			500	500			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Lead	1250	2500	8,230	16,700			

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Project ID: PICO AVENUE
Project Name: 236 Pico Avenue

AETL Job Number	Submitted	Client
72594	03/19/2014	AEC

Method: (6010B.LEAD), Lead, ICP

QC Batch No: 0324142C1

Our Lab I.D.			**72594.04**				
Client Sample I.D.			P-4				
Date Sampled			03/18/2014				
Date Prepared			03/24/2014				
Preparation Method			3050B				
Date Analyzed			03/25/2014				
Matrix			Solid				
Units			mg/Kg				
Dilution Factor			1000				
Analytes	**MDL**	**PQL**	**Results**				
Lead	2500	5000	42,400				

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Project ID: PICO AVENUE
Project Name: 236 Pico Avenue

AETL Job Number	Submitted	Client
72594	03/19/2014	AEC

Method: (6010B-STLC), Soluble Threshold Limit Concentration (STLC)

QC Batch No: 032114

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			03/21/2014				
Preparation Method			TITLE22				
Date Analyzed			03/25/2014				
Matrix			Solid				
Units			mg/L				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Lead (STLC)	0.05	0.10	ND				

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Page: **7**

Project ID: PICO AVENUE
Project Name: 236 Pico Avenue

AETL Job Number	Submitted	Client
72594	03/19/2014	AEC

Method: (6010B-STLC), Soluble Threshold Limit Concentration (STLC)

QC Batch No: 032114

Our Lab I.D.			**72594.01**				
Client Sample I.D.			P-1				
Date Sampled			03/18/2014				
Date Prepared			03/21/2014				
Preparation Method			TITLE22				
Date Analyzed			03/25/2014				
Matrix			Solid				
Units			mg/L				
Dilution Factor			100				
Analytes	**MDL**	**PQL**	**Results**				
Lead (STLC)	5	10	194				

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Page: 8

Project ID: PICO AVENUE
Project Name: 236 Pico Avenue

AETL Job Number	Submitted	Client
72594	03/19/2014	AEC

Method: (6010B-STLC), Soluble Threshold Limit Concentration (STLC)

QC Batch No: 032114

Our Lab I.D.			**72594.02**				
Client Sample I.D.			P-2				
Date Sampled			03/18/2014				
Date Prepared			03/21/2014				
Preparation Method			TITLE22				
Date Analyzed			03/25/2014				
Matrix			Solid				
Units			mg/L				
Dilution Factor			200				
Analytes	**MDL**	**PQL**	**Results**				
Lead (STLC)	10	20	850				

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Project ID: PICO AVENUE
Project Name: 236 Pico Avenue

AETL Job Number	Submitted	Client
72594	03/19/2014	AEC

Method: (6010B-STLC), Soluble Threshold Limit Concentration (STLC)

QC Batch No: 032114

Our Lab I.D.			**72594.03**	**72594.04**			
Client Sample I.D.			P-3	P-4			
Date Sampled			03/18/2014	03/18/2014			
Date Prepared			03/21/2014	03/21/2014			
Preparation Method			TITLE22	TITLE22			
Date Analyzed			03/25/2014	03/25/2014			
Matrix			Solid	Solid			
Units			mg/L	mg/L			
Dilution Factor			100	100			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Lead (STLC)	5	10	503	142			

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Project ID: PICO AVENUE
Project Name: 236 Pico Avenue

AETL Job Number	Submitted	Client
72594	03/19/2014	AEC

Method: (6010/7000TCLP), Toxicity Characteristic Leaching Procedure (TCLP,EPA 1311)

QC Batch No: 032114

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			03/21/2014				
Preparation Method			1311				
Date Analyzed			03/25/2014				
Matrix			Solid				
Units			mg/L				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Lead (TCLP)	0.05	0.10	ND				

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Project ID: PICO AVENUE
Project Name: 236 Pico Avenue

AETL Job Number	Submitted	Client
72594	03/19/2014	AEC

Method: (6010/7000TCLP), Toxicity Characteristic Leaching Procedure (TCLP,EPA 1311)

QC Batch No: 032114

Our Lab I.D.			**72594.01**	**72594.02**	**72594.03**	**72594.04**	
Client Sample I.D.			P-1	P-2	P-3	P-4	
Date Sampled			03/18/2014	03/18/2014	03/18/2014	03/18/2014	
Date Prepared			03/21/2014	03/21/2014	03/21/2014	03/21/2014	
Preparation Method			1311	1311	1311	1311	
Date Analyzed			03/25/2014	03/25/2014	03/25/2014	03/25/2014	
Matrix			Solid	Solid	Solid	Solid	
Units			mg/L	mg/L	mg/L	mg/L	
Dilution Factor			10	10	10	10	
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	
Lead (TCLP)	0.50	1.00	8.02	44.9	55.7	18.3	

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QUALITY CONTROL RESULTS

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Telephone: (760)744-3363
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Page: **12**

Project ID: PICO AVENUE
Project Name: 236 Pico Avenue

AETL Job Number	Submitted	Client
72594	03/19/2014	AEC

Method: (6010/7000TCLP), Toxicity Characteristic Leaching Procedure (TCLP,EPA 1311)

QC Batch No: 032114; LCS: Blank; LCS Prepared: 03/21/2014; LCS Analyzed: 03/25/2014; Units: mg/L

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit	LCS Concen	LCS Recov	LCS % REC	LCS/LCSD % Limit		
Lead (TCLP)	8.02	8.00	<1	<20	1.00	0.964	96.4	80-120		

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QUALITY CONTROL RESULTS

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Project ID: PICO AVENUE
Project Name: 236 Pico Avenue

AETL Job Number	Submitted	Client
72594	03/19/2014	AEC

Method: (6010B-STLC), Soluble Threshold Limit Concentration (STLC)

QC Batch No: 032114; LCS: Blank; LCS Prepared: 03/21/2014; LCS Analyzed: 03/21/2014; Units: mg/L

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit	LCS Concen	LCS Recov	LCS % REC	LCS/LCSD % Limit		
Lead (STLC)	194	190	2.1	<20	1.00	0.968	96.8	80-120		

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Page: **14**

Project ID: PICO AVENUE
Project Name: 236 Pico Avenue

AETL Job Number	Submitted	Client
72594	03/19/2014	AEC

Method: (6010B.LEAD), Lead, ICP

QC Batch No: 0324142C1; Dup or Spiked Sample: 72620.01; LCS: Blank; QC Prepared: 03/24/2014; QC Analyzed: 03/25/2014; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Lead	22.3	50.0	61.4	78.2	50.0	60.3	76.0	2.85	75-125	<15

QC Batch No: 0324142C1; Dup or Spiked Sample: 72620.01; LCS: Blank; QC Prepared: 03/24/2014; QC Analyzed: 03/25/2014; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Lead	50.0	47.1	94.2	50.0	46.9	93.8	<1	75-125	<15	

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Data Qualifiers and Descriptors

Data Qualifier:

#:	Recovery is not within acceptable control limits.
*:	In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
B:	Analyte was present in the Method Blank.
D:	Result is from a diluted analysis.
E:	Result is beyond calibration limits and is estimated.
H:	Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
J:	Analyte was detected . However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
M:	Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
MCL:	Maximum Contaminant Level
NS:	No Standard Available
S6:	Surrogate recovery is outside control limits due to matrix interference.
S8:	The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
X:	Results represent LCS and LCSD data.

Definition:

%Limi:	Percent acceptable limits.
%REC:	Percent recovery.
Con.L:	Acceptable Control Limits
Conce:	Added concentration to the sample.
LCS:	Laboratory Control Sample
MDL:	Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.

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Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference