

**ASBESTOS SURVEY AND LEAD BASED PAINT  
SAMPLING FOR RENOVATION  
CDOT REGION 2 BRIDGE: EPC 0091-04.37A  
ELBERT, COLORADO**

**Prepared for:**

**COLORADO DEPARTMENT OF TRANSPORTATION  
Division of Administrative Services  
Property Management  
15285 South Golden Road Building 47  
Golden, Colorado 80401**

**Attention: Mr. Tim Hagert**

**Project No. DN47,215.081-221-R2**

**March 8, 2018**



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## ACRONYMS

### Commonly Used Acronyms

ACBM	Asbestos Containing Building Materials
ACM	Asbestos Containing Materials
AHERA	Asbestos Hazard Emergency Response Act
EPA	Environmental Protection Agency
HA	Homogeneous Area
HEPA	High Efficiency Particulate Air
HVAC	Heating Ventilation and Air Conditioning
NESHAP	National Emission Standards for Hazardous Air Pollutants
O&M	Operations and Maintenance
OSHA	Occupational Safety and Health Administration
PCM	Phase Contrast Microscopy
PLM	Polarized Light Microscopy
RBM	Regulated Building Material
TEM	Transmission Electron Microscopy
TSI	Thermal System Insulation



## 1.0 INTRODUCTION

The Colorado Department of Transportation retained CTL | Thompson, Inc. (CTL) to perform an asbestos survey and lead based paint sampling of bridge EPC 0091-04.37A located on Elbert Road over Black Squirrel Creek in Elbert, Colorado. A vicinity map is included as Figure 1. The site consists of one steel and asphalt bridge built in 1996. The bridge is approximately 120 feet by 24 feet and is scheduled for renovation. Mr. Weston Short, certified CDPHE Asbestos Inspector #23540, performed the asbestos survey and lead paint sampling on February 28, 2018. We observed and sampled suspect asbestos-containing building materials and lead-based paints on the structure. All observed suspect asbestos containing building materials were sampled in general accordance with AHERA regulations.

## 2.0 ASBESTOS METHODOLOGY

The purpose of the asbestos inspection was to identify the condition and location of friable and non-friable asbestos materials that are present on the bridge structure. During the asbestos materials survey, CTL performed the following tasks:

- Inspected accessible areas for suspected asbestos materials;
- Determined friability of suspected asbestos materials by touching;
- Developed a sampling plan for each material based on the homogeneous material type, friability, accessibility, and material locations;
- Assessed the condition and potential hazards of the suspected asbestos materials;
- Collected samples of suspected homogeneous and non-homogeneous materials and submitted them for laboratory analysis by Polarized Light Microscopy (PLM); and,
- Documented findings and inspection protocol in accordance with accepted industry standards.



### 3.0 ASBESTOS INSPECTION PROCEDURE

Homogeneous suspect asbestos materials were identified by visually inspecting the topside and underneath the bridge.

Based on our inspection, the following types of suspect asbestos-containing materials were identified:

- Miscellaneous
  - Caulking – 1 Sample

The inspection did not involve destructive observation methods. There may be areas warranting further investigation. If additional suspect materials are encountered during the demolition, CTL should be contacted for additional sampling.

#### 3.1 Asbestos Sample Collection

CTL collected bulk samples of the suspected friable and non-friable (that would become friable during demolition) asbestos materials in a random and representative manner as defined by the U.S. Environmental Protection Agency (EPA) statistical sampling methods. The collected samples were packaged in sealed and labeled containers.

#### 3.2 Asbestos/Lead Sample Analysis

The bulk samples of suspected asbestos and lead materials were submitted to Reservoirs Environmental for analysis. Reservoirs Environmental is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) (Lab Code 101896-0) and the American Industrial Hygiene Association (AIHA) (Accreditation Certificate #480).



Individual layers of the samples were analyzed by PLM (Polarized Light Microscopy) to determine asbestos type and content. Unused portions of the samples were archived for 60 days, unless the client requested special handling. By regulation, any single positive asbestos sample classifies the entire homogeneous material as asbestos-containing and additional analysis is not required.

#### **4.0 ASBESTOS REGULATORY CRITERIA**

According to the Occupational Safety and Health Administration (OSHA), the Environmental Protection Agency (EPA), and the Colorado Department of Public Health and Environment (CDPHE), samples with asbestos concentrations greater than 1 percent are classified as asbestos containing materials and are a regulated material. If a structure is scheduled for renovation or demolition, friable samples that contain *Trace* amounts of asbestos (1% or less) must be further analyzed by a more accurate point-count analysis to determine if they exceed the 1 percent threshold, or the materials must be assumed to contain asbestos and be classified as a regulated material.

The EPA and OSHA distinguish between friable and non-friable forms of asbestos materials. Friable materials can be crumbled or reduced to powder by hand pressure when dry. Non-friable materials cannot be crumbled, pulverized, or reduced to powder by hand pressure when dry. Friable materials are more likely to be released into the air, especially if impacted or damaged during normal use, renovation, or demolition of a structure. Therefore, the distinction between friable and non-friable asbestos materials is important. The EPA further segregates non-friable asbestos materials into Category I or Category II. Category I non-friable asbestos materials include floor tiles and roofing felts. Removal of these asbestos materials is not required prior to demolition as long as they are in good condition and not friable and/or rendered friable. Category II asbestos materials are all other non-friable asbestos materials, and may be required to be removed prior to demolition if those materials will be rendered friable.



Whether removed or remaining in a structure during demolition, the confirmed or presumed asbestos materials are subject to EPA National Emission Standards for Hazardous Air Pollutants (NESHAP) and OSHA regulations. In 40 CFR 61.145, NESHAP requires that each owner or operator of a demolition activity provide the administrator with written notice of intent. The CDPHE has implemented the NESHAP program.

## **5.0 ASBESTOS INSPECTION RESULTS**

Results of the asbestos analyses for the homogenous materials collected from the bridge are summarized below. Laboratory reports for the samples are presented in Appendix B and results are summarized on Table 1.

CTL collected one (1) sample of suspect asbestos-containing building materials from the bridge. As shown on the attached laboratory reports, the sample did not contain asbestos.

## **6.0 CONCLUSIONS AND RECOMMENDATIONS**

### **6.1 Asbestos**

Asbestos containing materials are regulated by the Colorado Department of Public Health and Environment (CDPHE), the U.S. Environmental Protection Agency (EPA), and the Occupational Safety and Health Administration (OSHA). However, no asbestos containing materials were identified on the bridge.

### **6.2 Lead Containing Paint**

Since the bridge is planned for remodel or demolition and the non-metal building waste may be placed in a landfill, we conducted sampling for lead containing paint. One (1) brown paint was observed on the steel beams supporting the bridge and was found



to contain less than 19 ppm lead. Given that the paint is located on a metallic substrate and it is assumed that metallic materials will be recycled, no TCLP sample was taken.

Note: Any contractor disturbing lead containing materials must comply with OSHA 29 CFR 1926.62 Lead in Construction Standard.

If we can be of further service discussing the contents of this report, please call us.

Very truly yours,

CTL | THOMPSON, INC.

Weston Short  
Certified Asbestos Inspector #23540

Reviewed by:

Matthew L. Wardlow, P.E.  
Environmental Department Manager

WS:MLW/ot

Via ftp site





## SUMMARY OF FEDERAL AND STATE ASBESTOS REGULATIONS

OSHA: U.S. Department of Labor, Occupational Safety, and Health Administration, including but not limited to:

- Occupational Exposure to Asbestos, Tremolite, Anthophyllite, and Actinolite;
- Final Rules Title 29, Part 1910, Section 1325 and Part 1926, Section 1101 of the Code of Federal Regulations;
- Respiratory Protection Standard Title 29, Part 1910, Section 134 of the Code of Federal Regulations;
- Construction Industry Title 29, Part 1926, of the Code of Federal Regulations;
- Access to Employee Exposure and Medical Records Title 29, Part 1910, Section 2 of the Code of Federal Regulations;
- Hazard Communication Title 29, Part 1926 Section 59 of the Code of Federal Regulations; and
- Specifications for Accident Prevention Signs and Tags Title 29, Part 1910, Section 145 of the Code of Federal Regulations.

DOT: U.S. Department of Transportation, including but not limited to:

- Hazardous Substances Title 29, Part 171 and 172 of the Code of Federal Regulations.

EPA: U.S. Environmental Protection Agency, including but not limited to:

- Asbestos Hazard Emergency Response Act (AHERA) Regulation;
- Asbestos Containing Materials in Schools Final Rule & Notice Title 40, Part 763 Sub-part E of the Code of Federal Regulations;
- Training Requirements of (AHERA) Regulation;
- Asbestos Containing Materials in Schools Final Rule & Notice Title 40, Part 763, Sub-part E, Appendix C of the Code of Federal Regulations;
- National Emission Standard for Hazardous Air Pollutants (NESHAPS); and



- National Emission Standard for Asbestos Title 40, Part 61, Sub-part A, Sub-part M (Revised Sub-part B) of the Code of Federal Regulations.

CDPHE: Colorado Department of Public Health and Environment, including but not limited to:

- Air Quality Control Commission, Regulation No. 8, Part B “Emissions Standards for Asbestos”; and
- Hazardous Materials and Waste Management Division, 6 CCR 1007-2, Section 5 “Asbestos Waste Management.”

## ASBESTOS RESULTS FOR HOMOGENOUS MATERIALS

HOMOGENEOUS MATERIAL	HOMOGENEOUS IDENTIFIER	GENERAL LOCATION	MATERIAL TYPE	DESCRIPTION	SAMPLE HEIGHT	ASBESTOS CONTENT	FRIABLE	AHERA RATING*	ESTIMATED QUANTITY
Caulking	P-CK	EPC 0091-04.37A	MISC	Gray Foamy Material	Bridge Surface	ND	NO	NA	200 SF

<p><b>Physical Assessment Categories (PAC):</b></p> <ol style="list-style-type: none"> <li>1. Damaged or significantly damaged thermal system insulation (TSI) ACBM</li> <li>2. Damaged friable surfacing ACBM</li> <li>3. Significantly damaged friable surfacing ACBM</li> <li>4. Damaged or significantly damaged friable miscellaneous ACBM</li> <li>5. ACBM with potential for damage</li> <li>6. ACBM with potential for significant damage</li> <li>7. Any remaining friable ACBM or friable suspected ACBM</li> </ol>	<p><b>Color Indicators:</b></p> <p><b>Red Type:</b> Asbestos Containing Material (&gt;1% Asbestos)</p> <p><b>Blue Type:</b> Trace Asbestos (<math>\leq</math>1% Asbestos)</p> <p><b>Black Type:</b> No Asbestos Detected (ND)</p> <p><b>Note:</b> If one sub-sample of a homogeneous area/material contains asbestos, the entire homogeneous material should be assumed to also contain asbestos.</p>
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# LEAD PAINT SAMPLE RESULTS

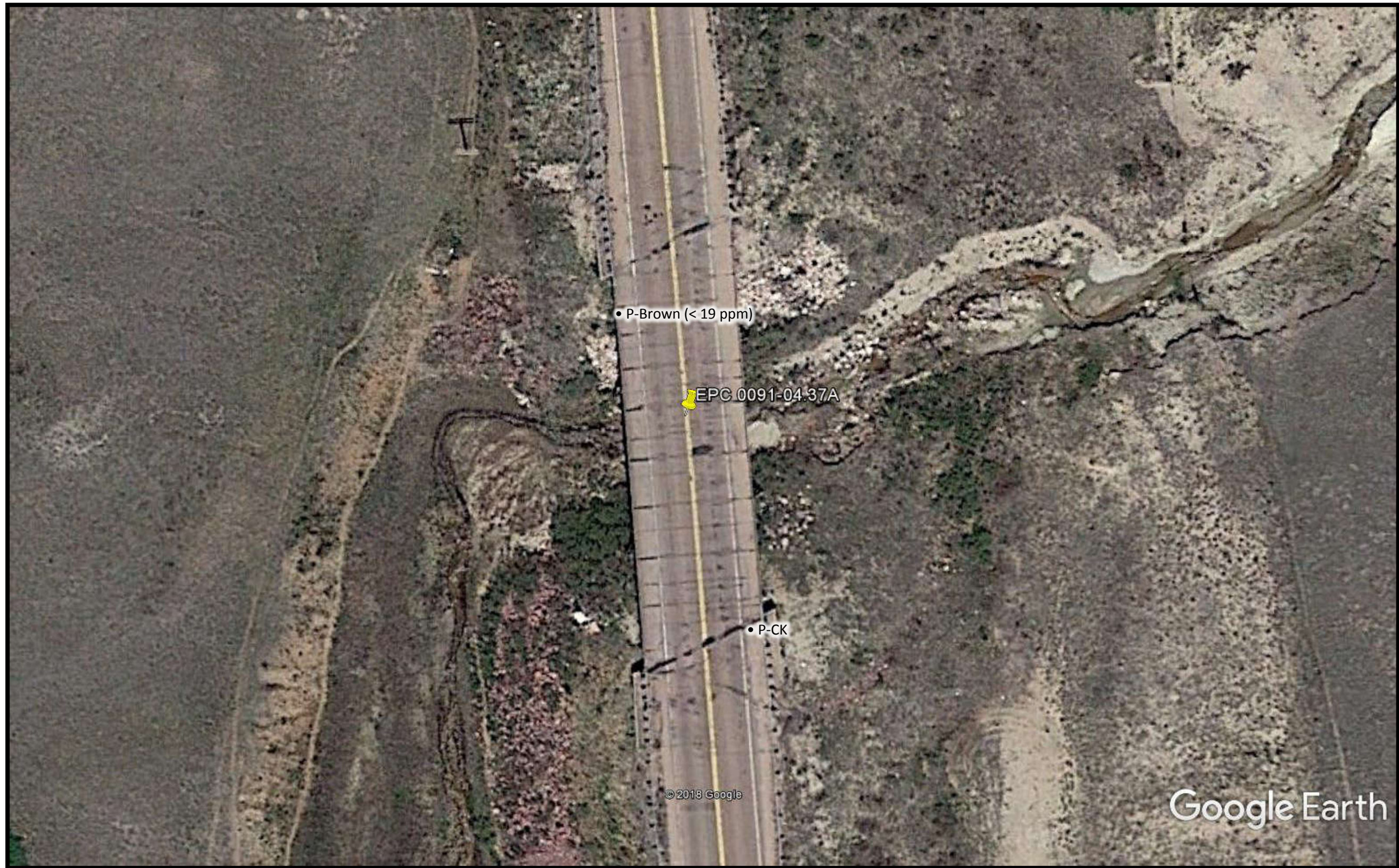
SAMPLE ID	MATERIAL/SUBSTRATE	COLOR	SAMPLE LOCATION	LEAD CONTENT (PPM)
P-Brown	METAL	Brown	EPC 0091-04.37A	< 19 (BRL)

**KEY:**

**Green Type:** Exceeds 20 x TCLP (100ppm)

BRL: Below Recordable Limits

Note: If one sub-sample of a homogeneous area/material contains lead, all other similar painted substrates





## APPENDIX A SITE PHOTOGRAPHS



Description: Bridge Deck  
Direction: North



Description: Bridge Underside  
Direction: South



Description: Bridge Abutment (P-Brown, <19ppm Lead)  
Direction: NA



Description: Core Inspection  
Direction: NA



APPENDIX B  
ASBESTOS LABORATORY RESULTS AND CHAIN OF CUSTODY





March 6, 2018

**Subcontract Number:** NA  
**Laboratory Report:** RES 402584-1  
**Project # / P.O. #** DN47215.081-221  
**Project Description:** Asb

Wes Short  
CTL/Thompson (Denver)  
1971 West 12th Place  
Denver CO 80204

Dear Customer,

Reservoirs Environmental, Inc. is an analytical laboratory accredited for the analysis of Industrial Hygiene and Environmental matrices by the National Voluntary Laboratory Accreditation Program (NVLAP), Lab Code 101896-0 for Transmission Electron Microscopy (TEM) and Polarized Light Microscopy (PLM) analysis and the American Industrial Hygiene Association (AIHA), Lab ID 101533 - Accreditation Certificate #480 for Phase Contrast Microscopy (PCM) analysis. This laboratory is currently proficient in both Proficiency Testing and PAT programs respectively.

Reservoirs Environmental, Inc. has analyzed the following samples for asbestos content as per your request. The analysis has been completed in general accordance with the appropriate methodology as stated in the attached analysis table. The results have been submitted to your office.

**RES 402584-1** is the job number assigned to this study. This report is considered highly confidential and the sole property of the customer. Reservoirs Environmental, Inc. will not discuss any part of this study with personnel other than those of the client. The results described in this report only apply to the samples analyzed. This report must not be used to claim endorsement of products or analytical results by NVLAP or any agency of the U.S. Government. This report shall not be reproduced except in full, without written approval from Reservoirs Environmental, Inc. Samples will be disposed of after sixty days unless longer storage is requested. If you have any questions about this report, please feel free to call 303-964-1986.

Sincerely,

A handwritten signature in blue ink that reads "Elisa Mari". Below the signature, the text "Elisa Mari for" is printed in a smaller, blue, sans-serif font.

Jeanne Spencer  
President

## RESERVOIRS ENVIRONMENTAL INC.

NVLAP Lab Code 101896-0

### TABLE: PLM BULK ANALYSIS, PERCENTAGE COMPOSITION BY VOLUME

RES Job Number: **RES 402584-1**  
 Client: **CTL/Thompson (Denver)**  
 Client Project Number / P.O.: **DN47215.081-221**  
 Client Project Description: **Asb**  
 Date Samples Received: **March 05, 2018**  
 Method: **EPA 600/R-93/116 - Short Report, Bulk**  
 Turnaround: **24 Hour**  
 Date Samples Analyzed: **March 06, 2018**

ND=None Detected  
 TR=Trace, <1% Visual Estimate  
 Trem/Act=Tremolite/Actinolite

Client Sample Number	Lab ID Number	L A Y E R	Physical Description	Sub Part (%)	Asbestos Content		Non Asbestos Fibrous Components (%)	Non-Fibrous Components (%)
					Mineral	Visual Estimate (%)		
W-CK	EM 2037023	A	Gray foam	100		ND	0	100
P-CK	EM 2037024	A	Black resinous material	100		ND	0	100

TEM Analysis recommended for organically bound material (i.e. floor tile) if PLM results are <1%.



Ryleigh Jacobs

Analyst / Data QA

Due Date: 3.6.18  
 Due Time: \_\_\_\_\_

**REI LAB Reservoirs Environmental, Inc.**  
 5801 Logan St. Denver, CO 80216 • Ph: 303 964-1986 • Fax 303-477-4275 • Toll Free :866 RESI-ENV

RES 402584

After Hours Cell Phone: 720-339-9228

**SUBMITTED BY:**

**INVOICE TO: (IF DIFFERENT)**

**CONTACT INFORMATION:**

Company: <u>CTL Thompson Denver</u>	Company:	Contact: <u>Wes Short</u>	Contact:
Address: <u>1971 W 12th Ave Denver CO 80204</u>	Address:	Phone: <u>303 626 7842</u>	Phone:
		Fax:	Fax:
		Cell/pager:	Cell/pager:
Project Number and/or P.O. #: <u>DN47215.081-221</u>	Final Data Deliverable Email Address: <u>WSHORT@CTLTTHOMPSON.COM</u>		
Project Description/Location: <u>Asb</u>			

ASBESTOS LABORATORY HOURS: Weekdays: 7am - 7pm & Sat. 8am - 5pm		REQUESTED ANALYSIS				VALID MATRIX CODES		LAB NOTES:
PLM / PCM / TEM	<input type="checkbox"/> RUSH (Same Day) <input checked="" type="checkbox"/> PRIORITY (Next Day) <input type="checkbox"/> STANDARD (3-5 Day)	PLM (Short report) Point Count, Long report, Qualitative TEM - AHERA, Level II, 7402, ISO, +/- (Air, Bulk or Dust), Quant, Semi-Quant, Micro-vac, ISO-Indirect Preps PCM - 7400A, 7400B, OSHA DUST - Total, Respirable METALS - Analyte(s) RCRA 8, TCLP, Welding Fume, Metals Scan, pH ORGANICS - METH, TSS Pathogens: Aerobic Plate Count, Salmonella, E.coli O157:H7, Listeria, S.aureus, Campylobacter: +/- or Quantification E.coli and/or Coliforms: +/- or Quantification State Water (Please Circle One) Yes / No Microbial Growth: Aerobic Plate Count ID, Y & M or Bacteria, Fungal, +/- or Quantification Legionella: +/- or Quantification Other: Bioburden, LAL or Environmental Mold: Spore Trap or Bulk: +/-, Identification, Quantification, Viable or Non-Viable	Air = A	Bulk = B				
(Rush PCM = 2hr, TEM = 6hr.)			Dust = D	Paint = P				
CHEMISTRY LABORATORY HOURS: Weekdays: 8am - 5pm			Soil = S	Wipe = W				
Metal(s) / Dust**	<input type="checkbox"/> RUSH <input type="checkbox"/> 24 hr. <input type="checkbox"/> 3-5 Day		Swab = SW	F = Food				
RCRA 8 / Metals & Welding Fume Scan / TCLP**	<input type="checkbox"/> RUSH (3 Day) <input type="checkbox"/> 5 Day <input type="checkbox"/> 10 Day		Drinking Water = DW	Waste Water = WW				
Organics	<input type="checkbox"/> 24 hr. <input type="checkbox"/> 3 day <input type="checkbox"/> 5 Day		O = Other					
MICROBIOLOGY LABORATORY HOURS: Weekdays: 9am - 6pm			**ASTM E1792 approved wipe media only**					
E.coli and/or Coliforms*	<input type="checkbox"/> 24-48 Hour <input type="checkbox"/> Other: _____		Sample Volume (L) / Area	Matrix Code	Date Collected mm/dd/yy	Time Collected hh/mm a/p	EM Number (Laboratory Use Only)	
Pathogens*	<input type="checkbox"/> 24-48 Hour		# Containers					
Microbial Growth*	<input type="checkbox"/> 5-10 Day							
Legionella	<input type="checkbox"/> 10 Day							
Mold	<input type="checkbox"/> RUSH <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 3 Day <input type="checkbox"/> 5 Day							
**Turnaround times establish a laboratory priority, subject to laboratory volume and are not guaranteed. Additional fees apply for afterhours, weekends and holidays.**								
Special Instructions:								
Client sample ID number (Sample ID's must be unique)								
1	<u>W-CK</u>					<u>2027 023</u>		
2	<u>P-CK</u>					<u>4</u>		
3								
4								
5								
6								
7								
8								
9								
10								

Number of samples received: 2 (Additional samples shall be listed on attached long form.)  
 NOTE: REI will analyze incoming samples based upon information received and will not be responsible for errors or omissions in calculations resulting from the inaccuracy of original data. By signing client/company representative agrees that submission of the following samples for requested analysis as indicated on this Chain of Custody shall constitute an analytical services agreement with payment terms of NET 30 days, failure to comply with payment terms may result in a 1.5% monthly interest surcharge.

Relinquished By: <u>[Signature]</u>	Date/Time: _____	Sample Condition: On Ice Sealed Intact
Laboratory Use Only	Carrier: <u>Hand</u> / FedEx / UPS / USPS / Drop	Temp. (F°) _____ Yes / No Yes / No Yes / No
Received By: <u>Elizabeth Wuer</u>	Date/Time: <u>3.5.18 3:50</u>	
Data Entry	Contact Phone Email Fax Date Time Initials	Contact Phone Email Fax Date Time Initials
QA:	Contact Phone Email Fax Date Time Initials	Contact Phone Email Fax Date Time Initials



APPENDIX C  
LEAD LABORATORY RESULTS AND CHAIN OF CUSTODY



March 6, 2018

**Laboratory Code:** RES  
**Subcontract Number:** NA  
**Laboratory Report:** RES 402585-1  
**Project # / PO #:** DN47215.081-221  
**Project Description:** Paint

Wes Short  
CTL/Thompson (Denver)  
1971 West 12th Place  
Denver CO 80204

Dear Customer,

Reservoirs Environmental, Inc. is an analytical laboratory accredited for the analysis of Industrial Hygiene and Environmental matrices by the American Industrial Hygiene Association, Lab ID 101533 - Accreditation Certificate #480. The laboratory is currently proficient in both IHPAT & ELPAT programs respectively.

Reservoirs has analyzed the following sample(s) using Atomic Absorption Spectroscopy (AAS) / Atomic Emission Spectroscopy - Mass Spectrometry (ICP-MS) per your request. Reported sample results were not blank corrected. The analysis has been completed in general accordance with the appropriate methodology as stated in the analysis table. Results have been sent to your office.

**RES 402585-1** is the job number assigned to this study. This report is considered highly confidential and the sole property of the customer. Reservoirs Environmental, Inc. will not discuss any part of this study with personnel other than those authorized by the client. The results described in this report only apply to the samples analyzed. This report shall not be reproduced except in full, without written approval from Reservoirs Environmental, Inc. Samples will be disposed of after sixty days unless longer storage is requested. If you should have any questions about this report, please feel free to call me at 303-964-1986.

Sincerely,

A handwritten signature in blue ink that reads "Jeanne Spencer".

Jeanne Spencer  
President

# RESERVOIRS ENVIRONMENTAL, INC.

5801 Logan St., Suite 100  
Denver CO 80216

## TABLE ANALYSIS: LEAD IN PAINT

RES Job Number: **RES 402585-1**  
Client: **CTL/Thompson (Denver)**  
Client Project Number / P.O.: **DN47215.081-221**  
Client Project Description: **Paint**  
Date Samples Received: **March 5, 2018**  
Analysis Type: **USEPA SW846 3050B / AA (7420)**  
Turnaround: **24 Hour**  
Date Samples Analyzed: **March 6, 2018**

Client ID Number	Lab ID Number	Reporting Limit (%)	LEAD CONCENTRATION (%)
C-Silver	EM 2037025	0.0013	0.0021
P-Brown	EM 2037026	0.0019	BRL
W-Green	EM 2037027	0.0026	7.3

\* Unless otherwise noted all quality control samples performed within specifications established by the laboratory.

Analyst / Data QA:  Renee A. Cortez

BRL = Below Reporting Limit

Due Date: 3-6-19  
 Due Time: \_\_\_\_\_

**REILAB Reservoirs Environmental, Inc.**  
 5801 Logan St. Denver, CO 80216 • Ph: 303 964-1986 • Fax 303-477-4275 • Toll Free: 866 RESI-ENV

RES 402585

After Hours Cell Phone: 720-339-9228

<b>SUBMITTED BY:</b>		<b>INVOICE TO: (IF DIFFERENT)</b>		<b>CONTACT INFORMATION:</b>	
Company: <u>CTL Thompson Denver</u>	Company: _____	Contact: <u>Wes Short</u>	Contact: _____	Phone: <u>303 626 7642</u>	Phone: _____
Address: <u>1971 W 12th Ave</u>	Address: _____	Fax: _____	Fax: _____	Cell/pager: _____	Cell/pager: _____
Project Number and/or P.O. #: <u>DN47215.081-221</u>	Final Data Deliverable Email Address: <u>WSHORT@CTLTHOMPSON.COM</u>				
Project Description/Location: <u>Paint</u>					

ASBESTOS LABORATORY HOURS: Weekdays: 7am - 7pm & Sat. 8am - 5pm		REQUESTED ANALYSIS				VALID MATRIX CODES		LAB NOTES:
PLM / PCM / TEM <input type="checkbox"/> RUSH (Same Day) <input type="checkbox"/> PRIORITY (Next Day) <input type="checkbox"/> STANDARD (3-5 Day)		PLM - Short report, Point Count, Long report, Qualitative TEM - AHERA, Level II, 7402, ISO, +/- (Air, Bulk or Dust), Quant, Semi-Quant, Micro-vac, ISO-Indirect Preps PCM - 7400A, 7400B, OSHA DUST - Total, Respirable METALS - Analyte(s) <u>Pb</u> RCRA 8, TCLP, Welding Fume, Metals Scan, pH ORGANICS - METH, TSS Pathogens: Aerobic Plate Count, Salmonella, E.coli O157:H7, Listeria, S.aureus, Campylobacter: +/- or Quantification E.coli and/or Coliforms: +/- or Quantification State Water (Please Circle One) Yes / No Microbial Growth: Aerobic Plate Count ID, Y & M or Bacteria, Fungal, +/- or Quantification Legionella: +/- or Quantification Other: Bioburden, LAL or Environmental Mold: Spore Trap or Bulk: +/-, Identification, Quantification, Viable or Non-Viable	Air = A		Bulk = B			
(Rush PCM = 2hr, TEM = 6hr.)			Dust = D		Paint = P			
CHEMISTRY LABORATORY HOURS: Weekdays: 8am - 5pm			Soil = S		Wipe = W			
Metal(s) / Dust** <input type="checkbox"/> RUSH <input checked="" type="checkbox"/> 24 hr. <input type="checkbox"/> 3-5 Day			Swab = SW		F = Food			
RCRA 8 / Metals & Welding Fume Scan / TCLP** <input type="checkbox"/> RUSH (3 Day) <input type="checkbox"/> 5 Day <input type="checkbox"/> 10 Day			Drinking Water = DW		Waste Water = WW			
Organics <input type="checkbox"/> 24 hr. <input type="checkbox"/> 3 day <input type="checkbox"/> 5 Day		O = Other		**ASTM E1792 approved wipe media only**				
MICROBIOLOGY LABORATORY HOURS: Weekdays: 9am - 6pm		E.coli and/or Coliforms* <input type="checkbox"/> 24-48 Hour <input type="checkbox"/> Other: _____		Sample Volume (L) / Area		EM Number (Laboratory Use Only)		
Pathogens* <input type="checkbox"/> 24-48 Hour		Microbial Growth* <input type="checkbox"/> 5-10 Day <input type="checkbox"/> 10 Day		Matrix Code				
Legionella <input type="checkbox"/> 10 Day		Mold <input type="checkbox"/> RUSH <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 3 Day <input type="checkbox"/> 5 Day		# Containers				
**Turnaround times establish a laboratory priority, subject to laboratory volume and are not guaranteed. Additional fees apply for afterhours, weekends and holidays.**		Special Instructions:		Date Collected mm/dd/yy				
Client sample ID number (Sample ID's must be unique)		MICROBIOLOGY		Time Collected hh/mm a/p				
1	<u>C-Silver</u>	<input checked="" type="checkbox"/>		<u>B 1</u>		<u>2037025</u>		
2	<u>P-Brown</u>	<input checked="" type="checkbox"/>		<u>B 1</u>		<u>6</u>		
3	<u>W-Green</u>	<input checked="" type="checkbox"/>		<u>B 1</u>		<u>7</u>		
4	<u>[scribble]</u>	<input type="checkbox"/>		<u>[scribble]</u>				
5	<u>[scribble]</u>	<input type="checkbox"/>		<u>[scribble]</u>				
6	<u>[scribble]</u>	<input type="checkbox"/>		<u>[scribble]</u>				
7	<u>[scribble]</u>	<input type="checkbox"/>		<u>[scribble]</u>				
8	<u>[scribble]</u>	<input type="checkbox"/>		<u>[scribble]</u>				
9	<u>[scribble]</u>	<input type="checkbox"/>		<u>[scribble]</u>				
10	<u>[scribble]</u>	<input type="checkbox"/>		<u>[scribble]</u>				

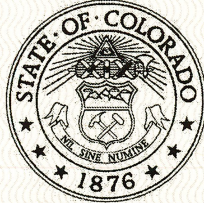
Number of samples received: 3 (Additional samples shall be listed on attached long form.)  
 NOTE: REI will analyze incoming samples based upon information received and will not be responsible for errors or omissions in calculations resulting from the inaccuracy of original data. By signing client/company representative agrees that submission of the following samples for requested analysis as indicated on this Chain of Custody shall constitute an analytical services agreement with payment terms of NET 30 days, failure to comply with payment terms may result in a 1.5% monthly interest surcharge.

Relinquished By: <u>[Signature]</u> Date/Time: _____				Sample Condition: On Ice <input type="checkbox"/> Sealed <input type="checkbox"/> Intact <input type="checkbox"/>			
Laboratory Use Only				Temp. (F°) _____ Yes / No <input type="checkbox"/> Yes / No <input type="checkbox"/> Yes / No <input type="checkbox"/>			
Received By: <u>[Signature]</u> Date/Time: <u>3:518 3:50</u> Carrier: <u>Hand</u> / FedEx / UPS / USPS / Drop Box / Courier							
Data Entry	Contact	Phone	Email	Fax	Date	Time	Initials
QA:	Contact	Phone	Email	Fax	Date	Time	Initials



APPENDIX C  
CTL | THOMPSON CERTIFICATIONS





Colorado Department  
of Public Health  
and Environment

## ASBESTOS CERTIFICATION\*

This certifies that

**Weston Short**

**Certification No.: 23540**

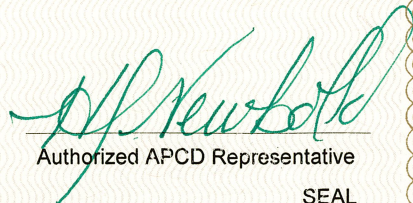
has met the requirements of 25-7-507, C.R.S. and Air Quality Control  
Commission Regulation No. 8, Part B, and is hereby certified by the  
state of Colorado in the following discipline:

**Building Inspector\***

**Issued: February 22, 2018**

**Expires: March 01, 2019**

*\* This certificate is valid only with the possession of a  
current Division-approved training course certification  
in the discipline specified above.*

  
Authorized APCD Representative

SEAL



Colorado Department  
of Public Health  
and Environment

## ASBESTOS CONSULTING FIRM

This certifies that

**CTL/Thompson**

**Registration No.: ACF - 14870**

has met the registration requirements of 25-7-507, C.R.S. and the Air Quality Control Commission Regulation No. 8, Part B, and is hereby authorized to perform asbestos consulting activities as required under Regulation No 8, Part B, in the state of Colorado.

Issued: January 30, 2017

Expires: January 30, 2018

Authorized APCD Representative

SEAL