



Boulder Environmental Inc.
2400 Broadway St., Unit B, Boulder, CO 80304
Phone: (303) 382-1175 Fax: 1 (866) 699-4121

May 4, 2018

Cribbs Construction
Mr. Jason Cribbs
cribbSCO@gmail.com

SUBJECT: Asbestos Survey and Bulk Sampling for Building Demolition
971 Tennyson Street, Denver, Colorado

Dear Mr. Cribbs:

Attached is the report for the bulk sampling of suspected asbestos-containing materials at **971 Tennyson Street, Denver, Colorado**. This report must be used for complete building demolition purposes only.

This investigation was conducted on behalf of and for the exclusive use of **Cribbs Construction** (client). This report and the findings herein shall not, in whole or in part, be disseminated or conveyed to any other party, nor used by any other party, in whole or in part, without prior written consent of Boulder Environmental Inc.

Personnel knowledgeable of asbestos containing materials should always oversee demolition activities. Demolition work should be halted and sampling performed by a state of Colorado licensed building inspector if additional materials, which are suspected of containing asbestos, are encountered.

If you have any questions regarding the contents of this report, please do not hesitate to contact us.

Sincerely,

Derek D'Avignon
CO Building Inspector #10177

ASBESTOS SURVEY AND BULK SAMPLING REPORT

FOR BUILDING DEMOLITION OF

971 Tennyson Street, Denver, Colorado

Introduction:

On **December 1, 2017 and April 25, 2018**, Boulder Environmental Inc.'s Building Inspectors, **Catherine Naccarato and Derek D'Avignon**, conducted asbestos-containing materials surveys. The purpose of the survey was to identify asbestos containing materials (ACM) and materials presumed to contain asbestos (PACM) as defined by the Environmental Protection Agency (EPA) for the purposes of eventual building demolition.

Sampling:

During the sampling process, suspect ACM was separated into three EPA categories. These categories are thermal system insulation (TSI), surfacing ACM, and miscellaneous ACM. TSI includes all materials used to prevent heat loss or gain or water condensation on mechanical systems. Examples of TSI are pipe coverings, boiler insulation, duct wrap, and mud packed fitting cement. Surfacing ACM includes all ACM that is sprayed, trowelled, or otherwise applied to a surface. These applications are most commonly used in fireproofing, decorative and acoustical applications. Miscellaneous materials include all ACM not listed in the thermal system insulation or surfacing categories, such as linoleum, vinyl asbestos flooring, and ceiling tile.

Boulder Environmental Inc. followed EPA recommended sampling guidelines for identification of asbestos in bulk matrices. A set of one (1), three (3), five (5), or seven (7) samples were collected for each material type and analyzed by Polarized Light Microscopy (PLM). Each sample set was systematically analyzed. Upon determination that a sample in a set contained asbestos, analysis of the remaining samples in the set was discontinued. If no asbestos was detected during the analyses, the suspect material was determined to be negative for asbestos content.

Results:

The following materials are presumed to be asbestos containing:

PRESUMED ASBESTOS CONTAINING MATERIALS

MATERIAL	LOCATION
Paper and/or tape	~ 50 square feet wrapped around heating duct work, duct seams, and register boots
Window glazing*	~120 linear square feet on windows
Tar impregnated roofing*	~1200 square feet on roof of house ~360 square feet on garage roof
Floor tiles and associated mastic*	~20 square feet in north bedroom closet west wall around door frame

*Certain non-friable asbestos containing materials as noted may remain in the building during complete conventional demolition using work practices that preserve the materials in a non-friable state.

The following materials were analyzed and determined to be asbestos-containing utilizing polarized light microscopy (PLM).

ASBESTOS-CONTAINING MATERIALS

MATERIAL	SAMPLE LOCATION	SAMPLE ID	CONTENT
Stipple circle textured plaster	Living room ceiling	12-1-CN-04B	3% Chrysotile
	Living room ceiling	12-1-CN-05B	3% Chrysotile
	Living room ceiling	12-1-CN-06B	3% Chrysotile
Circle textured plaster	NE bedroom ceiling	12-1-CN-07C	3% Chrysotile
	Dining room ceiling	12-1-CN-08C	3% Chrysotile
	NE bedroom closet west wall	12-1-CN-09C	3% Chrysotile
Filler material/ <i>brown tile</i>	Under sub-floor in kitchen	12-1-CN-13	5% Chrysotile
Flooring- <i>tan tile</i>	Above sub-floor in kitchen	12-1-CN-14	4% Chrysotile
Thick wavy circle textured plaster	North bedroom east wall	12-1-CN-15E	3% Chrysotile
	North bedroom south wall	12-1-CN-16E	4% Chrysotile
	North bedroom west wall	12-1-CN-17E	3% Chrysotile
Wavy line textured plaster	NW bedroom east wall	12-1-CN-18F	3% Chrysotile
	NW bedroom west wall	12-1-CN-19F	3% Chrysotile
	NW bedroom south wall	12-1-CN-20F	3% Chrysotile
	Dining room east wall	12-1-CN-25F	4% Chrysotile
	Dining room south wall	12-1-CN-26F	4% Chrysotile
Perfect circle textured plaster	NW bedroom ceiling	12-1-CN-21G	3% Chrysotile
	NW bedroom ceiling	12-1-CN-22G	3% Chrysotile
	NW bedroom ceiling	12-1-CN-23G	4% Chrysotile

The following materials were analyzed and determined not to be asbestos containing utilizing polarized light microscopy (PLM).

NON ASBESTOS-CONTAINING MATERIALS

MATERIAL	LOCATION	SAMPLE ID
Rough textured plaster	Living room east wall	12-1-CN-01A
	Living room west wall	12-1-CN-02A
	Living room north wall	12-1-CN-03A
Orange peel textured drywall	Kitchen east wall	12-1-CN-10D
	Bath west wall	12-1-CN-11D
	Laundry north wall	12-1-CN-12D
Drywall and joint compound	Dining room north wall	12-1-CN-24
Press wood panels	Living Dining room south wall	12-1-CN-27
Ceiling tile 2x4 white	Living Dining room drop ceiling	12-1-CN-28
Sheet flooring	Bath east wall	12-1-CN-29
Sheet flooring	Bath floor	12-1-CN-30
Pressboard	Kitchen south wall	12-1-CN-31
Sheet flooring-gray	NE bedroom	12-1-CN-32
Smooth textured plaster	Kitchen west wall	12-1-CN-32H
	Kitchen south wall	12-1-CN-33H
	NW bedroom doorway	12-1-CN-34H
Stucco	House exterior, south	4-25-DD-35I
	House exterior, west	4-25-DD-36I
	House exterior, north	4-25-DD-37I
	House exterior, north	4-25-DD-38I
	House exterior, east	4-25-DD-39I

Discussion:

Sample analyses results are reported in percentages of asbestos and non-asbestos components. The EPA defines any material that contains greater than one percent (1%) asbestos, utilizing PLM, as being an asbestos containing material. Materials that are identified as “none detected” are specified as not containing asbestos.

Asbestos removal permit or notification requirements:

When the quantity of ACM to be removed exceeds “> 260 LF or 160 SF or a 55-gallon drum”, a permit or notification and a ten working day waiting period are required before a permit is valid. These circumstances also require a notification fee of \$80 for a non-friable asbestos removal or a permit fee of \$400 for a friable asbestos removal. These trigger levels apply to all SFRD’s which are intended to be demolished.

Obtaining a State Demolition Permit:

Prior to building demolition/relocation/burning, Colorado requires a state issued demolition permit. The building, or portion thereof, must be free of regulated asbestos containing materials before application for the demolition permit.

There is a 10 working-day advance notification requirement for permit applications. Day 1 is the 1st business day following the postmark or hand-delivery date. (Working Day means Monday through Friday and including holidays that falls on any of the days Monday through Friday.)

An inspector accredited by the EPA and CDPHE must sign a statement (**in blue ink**) certifying that the building is eligible for demolition to begin the demolition permit application process.

If a demolition follows a permitted or noticed asbestos abatement project within 10 business days of the completion of the abatement project, the 10 working-day advance notification requirement will be waived.

Upon request, (as it typically serves your project timeline), BEI will forward the required original application, **signed in blue ink**, directly to the demolition contractor if you have selected one. This way you are not deemed a courier and do not incur further inconvenience prior to beginning the ten working days after CDPHE receives the fee and application necessary to obtain a demolition permit.

Emergency asbestos abatement / demolition permits may be issued if project circumstances pose an immediate hazard to public health and environment. CDPHE does not typically waive permit waiting periods because of financial hardships or planning issues. Requests for emergency asbestos abatement / demolition permits must be made in writing by the building owner to: Permit Coordinator, Colorado Dept. of Public Health and Environment, APCD-SS-B1, 4300 Cherry Creek Drive South, Denver, CO 80246-1530, Phone: 303-692-3100, Fax: 303-782-0278, Email: cdphe.asbestos@state.co.us.

Please note that walk-in business address for CDPHE is different from the mailing address on CDPHE forms. Their physical address is 700 South Ash Street, Denver, Colorado.

Boulder Environmental Inc.

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Conclusion:

Prior to application for building demolition, Boulder Environmental Inc. must verify the abatement or removal of the following asbestos containing materials:

- **~50 square feet of paper and/or tape wrapped around forced air heating duct work, taped duct seams, and wall register boots**
- **~110 square feet of stipple circle textured plaster, and associated overspray on framing, floors and/or fixtures, on the living room ceiling**
- **~350 square feet of circular textured drywall and associated overspray on framing, floors and/or fixtures on the ceilings in the dining room (above drop ceiling), north bedroom and NE bedroom and walls and ceiling in the NE bedroom closet**
- **~110 square feet of kitchen brown floor tile and red floor tile above and below the sub-floor**
- **~350 square feet of thick wavy circle textured plaster and associated overspray on framing, floors and/or fixtures on the NE bedroom (walls and ceiling), kitchen (ceiling), and NW bedroom (ceiling)**
- **~300 square feet of wavy vertical line textured plaster and associated overspray on framing, floors and/or fixtures on the walls in the NW bedroom and dining room behind panels**
- **~100 square feet of perfect circle textured plaster on the NW bedroom ceiling**

The following presumed asbestos containing materials remain in the building as long as they remain non-friable during conventional building demolition:

- **~1,200 square feet of tar impregnated roofing on the house roof**
- **~360 square feet of tar impregnated roofing on the garage roof**
- **~120 linear feet of window caulking and glazing around house windows**
- **~20 square feet of floor tiles and associated mastic on the east wall in the north bedroom closet**

Non-friable asbestos containing materials as noted may remain in a building during demolition. Occupational Safety and Health Administration guidelines should be followed while disturbing or handling these materials. State of Colorado licenses and certifications for asbestos handling are not required so long as materials remain non-friable.

However, we recommend having the floor tiles abated by a licensed asbestos remover prior to applying for demolition because fewer and fewer demolition contractors are being permitted to perform conventional demolition with asbestos containing floor tiles in place.

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Workers disturbing asbestos containing materials must be OSHA/EPA trained and asbestos containing materials must be disposed of in a land-fill approved by the EPA to receive asbestos waste.

The following materials were determined not to be asbestos containing:

- ~300 square feet of orange peel textured drywall, including joint compound in cracks and joints, on the walls and ceilings in the laundry and bath and the kitchen east and north walls and ceiling
- ~200 square feet of press wood panels and boards on the dining room south wall, east wall and kitchen south wall
- ~100 square feet of 2x4 white ceiling tile on the dining room drop ceiling
- ~60 square feet of sheet floorings on the bath floor and lower east and west walls
- ~110 square feet of gray sheet flooring in the NE bedroom
- ~325 square feet of smooth textured plaster on the kitchen west and south walls and doorways of the kitchen (to dining room, to NW bedroom and to laundry), and basement stairs/landing
- ~1,400 square feet of exterior stucco on the house

The results of this survey pertain only to materials tested. The laboratory reports supporting these findings above are attached. Please contact Boulder Environmental Inc. if you have any questions or concerns regarding this report.

Sincerely,



Chris Maron
Project Manager



December 5, 2017

Subcontract Number: NA
Laboratory Report: RES 395850-1
Project # / P.O. # None Given
Project Description: 971 Tennyson St.

Cathy Naccarato
Boulder Environmental, Inc.
2400 Broadway, Unit B
Boulder CO 80304

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 395850-1 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 blue ink signature of Gina Vettraino, written in a cursive style. Below the signature is the text "Gina Vettraino for" in a small, blue, sans-serif font.

Gina Vettraino for

Jeanne Spencer
President

RESERVOIRS ENVIRONMENTAL INC.

NVLAP Lab Code 101896-0

TABLE: PLM BULK ANALYSIS, PERCENTAGE COMPOSITION BY VOLUME

RES Job Number: **RES 395850-1**
 Client: **Boulder Environmental, Inc.**
 Client Project Number / P.O.: **None Given**
 Client Project Description: **971 Tennyson St.**
 Date Samples Received: **December 04, 2017**
 Method: **EPA 600/R-93/116 - Short Report, Bulk**
 Turnaround: **24 Hour**
 Date Samples Analyzed: **December 05, 2017**

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 (%)		
12-1-CN-01A	EM 1984165	A	White resinous material	1		ND	0	100
		B	White perlitic plaster w/ green paint	2		ND	0	100
		C	Gray granular cementitious material	2		ND	0	100
		D	Tan paint w/ gray granular resinous material	5		ND	0	100
		E	Pink granular resinous material	10		ND	0	100
		F	Gray granular cementitious material	80		ND	0	100
12-1-CN-02A	EM 1984166	A	Pink granular resinous material w/ tan paint	10		ND	0	100
		B	Gray granular cementitious material	90		ND	0	100
12-1-CN-03A	EM 1984167	A	Gray granular cementitious material	40		ND	0	100
		B	Pink granular resinous material w/ tan paint	60		ND	0	100

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

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					Mineral	Visual Estimate (%)		
12-1-CN-04B	EM 1984168	A	White/tan drywall	TR		ND	45	55
		B	White texture w/ white paint	15		ND	4	96
		C	Off white compound	15	Chrysotile	3	0	97
		D	White plaster	20		ND	0	100
		E	Pink granular perlitic plaster	50		ND	TR	100
12-1-CN-05B	EM 1984169	A	White texture w/ white paint	15		ND	5	95
		B	Off white compound	15	Chrysotile	3	0	97
		C	White plaster	25		ND	0	100
		D	Pink granular perlitic plaster	45		ND	TR	100

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					Mineral	Visual Estimate (%)		
12-1-CN-06B	EM 1984170	A	White texture	2		ND	5	95
		B	Off white compound w/ white paint	3	Chrysotile	3	0	97
		C	White resinous material	3		ND	0	100
		D	Pink granular resinous material w/ tan paint	5		ND	0	100
		E	White plaster	5		ND	0	100
		F	Gray granular cementitious material	30		ND	0	100
		G	Off white granular plaster	52		ND	0	100
12-1-CN-07C	EM 1984171	A	White/orange paint	3		ND	0	100
		B	Off white texture	5	Chrysotile	3	0	97
		C	White/tan drywall	92		ND	15	85
12-1-CN-08C	EM 1984172	A	White paint	2		ND	0	100
		B	Off white texture	4	Chrysotile	3	0	97
		C	White/tan drywall	94		ND	15	85

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					Mineral	Visual Estimate (%)		
12-1-CN-09C	EM 1984173	A	Orange/multi-colored paint	3		ND	0	100
		B	Off white texture	5	Chrysotile	3	0	97
		C	White/tan drywall	92		ND	25	75
12-1-CN-010D	EM 1984174	A	Pink granular plaster	30		ND	TR	100
		B	White plaster w/ pink/multi-colored paint	70		ND	0	100
12-1-CN-011D	EM 1984175	A	White paint	3		ND	0	100
		B	Tan/blue drywall	97		ND	15	85
12-1-CN-012D	EM 1984176	A	White paint	3		ND	0	100
		B	Tan/blue drywall	97		ND	15	85
12-1-CN-13	EM 1984177	A	Black mastic	1		ND	0	100
		B	Yellow mastic	2		ND	0	100
		C	Brown tile	5	Chrysotile	5	0	95
		D	White plaster	5		ND	0	100
		E	Gray granular cementitious material	87		ND	0	100

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					Mineral	Visual Estimate (%)		
12-1-CN-14	EM 1984178	A	Yellow mastic	1		ND	0	100
		B	Colorless adhesive w/ gray debris	1	Chrysotile	TR	0	100
		C	Tan/gray tile	20		ND	0	100
		D	Tan sheet vinyl	25		ND	2	98
		E	Tan tile	53	Chrysotile	4	0	96
12-1-CN-15E	EM 1984179	A	Green paint	2		ND	0	100
		B	Blue/multi-colored paint	3		ND	0	100
		C	White texture	3	Chrysotile	3	0	97
		D	Pink/multi-colored paint	5		ND	0	100
		E	Off white texture	5	Chrysotile	3	0	97
		F	Off white texture	7	Chrysotile	3	0	97
		G	White plaster	30		ND	0	100
		H	Gray granular plaster	45		ND	TR	100

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					Mineral	Visual Estimate (%)		
12-1-CN-16E	EM 1984180	A	Green paint	1		ND	0	100
		B	Light pink paint	1		ND	0	100
		C	Light green/multi-colored paint	2		ND	0	100
		D	Off white texture	3	Chrysotile	2	0	98
		E	White texture	5	Chrysotile	4	0	96
		F	White plaster	5		ND	0	100
		G	Pink/multi-colored paint w/ white texture	15		ND	0	100
		H	White texture	15	Chrysotile	3	0	97
		I	Pink granular perlitic plaster/gray granular perlitic plaster	23		ND	TR	100
		J	Brown/multi-colored multi-layered wall covering	30		ND	90	10

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					Mineral	Visual Estimate (%)		
12-1-CN-17E	EM 1984181	A	Light blue/multi-colored paint	1		ND	0	100
		B	White texture	1	Chrysotile	3	0	97
		C	Green paint	1		ND	0	100
		D	Off white texture	1	Chrysotile	3	0	97
		E	Pink paint w/ white texture	1		ND	0	100
		F	Brown/multi-colored multi-layered wall covering w/ white plaster	2		ND	90	10
		G	White texture	10	Chrysotile	3	0	97
		H	White paint w/ white compound	20		ND	0	100
		I	Pink/multi-colored paint	25		ND	0	100
		J	Pink granular perlitic plaster/gray granular plaster	38		ND	TR	100

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					Mineral	Visual Estimate (%)		
12-1-CN-18F	EM 1984182	A	Blue/multi-colored paint	2		ND	0	100
		B	White plaster	10		ND	0	100
		C	Gray granular plaster	18		ND	TR	100
		D	Tan/multi-colored paint	25		ND	0	100
		E	White texture	45	Chrysotile	3	0	97
12-1-CN-19F	EM 1984183	A	Off white paint	1		ND	0	100
		B	Blue/multi-colored paint	1		ND	0	100
		C	White plaster	10		ND	0	100
		D	Tan/multi-colored paint w/ green granular texture	25		ND	0	100
		E	White texture	25	Chrysotile	3	0	97
		F	Gray granular plaster	38		ND	TR	100

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RES Job Number: **RES 395850-1**
 Client: **Boulder Environmental, Inc.**
 Client Project Number / P.O.: **None Given**
 Client Project Description: **971 Tennyson St.**
 Date Samples Received: **December 04, 2017**
 Method: **EPA 600/R-93/116 - Short Report, Bulk**
 Turnaround: **24 Hour**
 Date Samples Analyzed: **December 05, 2017**

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 (%)		
12-1-CN-20F	EM 1984184	A	Off white paint	1		ND	0	100
		B	Brown paper	2		ND	95	5
		C	Blue/multi-colored paint	2		ND	0	100
		D	White plaster	10		ND	0	100
		E	Tan/multi-colored paint w/ off white resinous texture	15		ND	0	100
		F	White/blue paint w/ green granular texture	15		ND	0	100
		G	Off white texture	20	Chrysotile	3	0	97
		H	Gray granular plaster	35		ND	TR	100

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

RESERVOIRS ENVIRONMENTAL INC.

NVLAP Lab Code 101896-0

TABLE: PLM BULK ANALYSIS, PERCENTAGE COMPOSITION BY VOLUME

RES Job Number: **RES 395850-1**
 Client: **Boulder Environmental, Inc.**
 Client Project Number / P.O.: **None Given**
 Client Project Description: **971 Tennyson St.**
 Date Samples Received: **December 04, 2017**
 Method: **EPA 600/R-93/116 - Short Report, Bulk**
 Turnaround: **24 Hour**
 Date Samples Analyzed: **December 05, 2017**

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 (%)		
12-1-CN-21G	EM 1984185	A	Off white paint	1		ND	0	100
		B	Blue/multi-colored paper	1		ND	0	100
		C	White texture	4	Chrysotile	3	0	97
		D	Tan/multi-colored paint w/ off white granular texture	5		ND	0	100
		E	Gray granular plaster	44		ND	TR	100
		F	White plaster	45		ND	0	100
12-1-CN-22G	EM 1984186	A	Off white paint	1		ND	0	100
		B	Blue/multi-colored paint	1		ND	0	100
		C	Tan/multi-colored paint w/ off white granular texture	2		ND	0	100
		D	White texture	2	Chrysotile	3	0	97
		E	White plaster	20		ND	0	100
		F	Gray granular plaster	74		ND	TR	100

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

RESERVOIRS ENVIRONMENTAL INC.

NVLAP Lab Code 101896-0

TABLE: PLM BULK ANALYSIS, PERCENTAGE COMPOSITION BY VOLUME

RES Job Number: **RES 395850-1**
 Client: **Boulder Environmental, Inc.**
 Client Project Number / P.O.: **None Given**
 Client Project Description: **971 Tennyson St.**
 Date Samples Received: **December 04, 2017**
 Method: **EPA 600/R-93/116 - Short Report, Bulk**
 Turnaround: **24 Hour**
 Date Samples Analyzed: **December 05, 2017**

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 (%)		
12-1-CN-23G	EM 1984187	A	Blue/multi-colored paint	1		ND	0	100
		B	Tan/multi-colored paint	2		ND	0	100
		C	White texture	2	Chrysotile	4	0	96
		D	White plaster	20		ND	0	100
		E	Gray granular plaster	75		ND	TR	100
12-1-CN-24	EM 1984188	A	Gray paint w/ white compound	5		ND	0	100
		B	Gray/brown drywall	95		ND	15	85
12-1-CN-25F	EM 1984189	A	Light gray/multi-colored paint	1		ND	0	100
		B	Gray/green paint	1		ND	0	100
		C	White texture	3	Chrysotile	4	0	96
		D	White plaster	15		ND	0	100
		E	Pink granular perlitic plaster	80		ND	TR	100

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

RESERVOIRS ENVIRONMENTAL INC.

NVLAP Lab Code 101896-0

TABLE: PLM BULK ANALYSIS, PERCENTAGE COMPOSITION BY VOLUME

RES Job Number: **RES 395850-1**
 Client: **Boulder Environmental, Inc.**
 Client Project Number / P.O.: **None Given**
 Client Project Description: **971 Tennyson St.**
 Date Samples Received: **December 04, 2017**
 Method: **EPA 600/R-93/116 - Short Report, Bulk**
 Turnaround: **24 Hour**
 Date Samples Analyzed: **December 05, 2017**

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 (%)		
12-1-CN-26F	EM 1984190	A	Light gray/multi-colored paint	5	Chrysotile	ND	0	100
		B	Gray/green paint	5		ND	0	100
		C	White plaster	20		ND	0	100
		D	Pink granular perlitic plaster	25		ND	TR	100
		E	White texture	45		4	0	96
12-1-CN-27	EM 1984191	A	Tan fiberboard	100		ND	95	5
12-1-CN-28	EM 1984192	A	White/gray perlitic ceiling tile	100		ND	80	20
12-1-CN-29	EM 1984193	A	Gray paint w/ white texture	5		ND	0	100
		B	Gray/green green drywall	30		ND	50	50
		C	Gray sheet vinyl w/ gray fibrous backing	65		ND	25	75
12-1-CN-30	EM 1984194	A	Cream mastic	1		ND	0	100
		B	Light gray sheet vinyl w/ gray fibrous backing	40		ND	20	80
		C	Brown/off white sheet vinyl	59		ND	10	90

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

RESERVOIRS ENVIRONMENTAL INC.

NVLAP Lab Code 101896-0

TABLE: PLM BULK ANALYSIS, PERCENTAGE COMPOSITION BY VOLUME

RES Job Number: **RES 395850-1**
 Client: **Boulder Environmental, Inc.**
 Client Project Number / P.O.: **None Given**
 Client Project Description: **971 Tennyson St.**
 Date Samples Received: **December 04, 2017**
 Method: **EPA 600/R-93/116 - Short Report, Bulk**
 Turnaround: **24 Hour**
 Date Samples Analyzed: **December 05, 2017**

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 (%)		
12-1-CN-31	EM 1984195	A	White leveling compound	30		ND	0	100
		B	Light gray sheet vinyl	70		ND	10	90
12-1-CN-32	EM 1984196	A	Tan fiberboard	100		ND	90	10
12-1-CN-32H	EM 1984197	A	Yellow resinous material	TR		ND	0	100
		B	Pink/white paint w/ white resinous texture	15		ND	0	100
		C	Yellow/multi-colored paint	15		ND	0	100
		D	White plaster	30		ND	0	100
		E	Pink granular plaster	40		ND	TR	100
12-1-CN-33H	EM 1984198	A	White/multi-colored paint	5		ND	0	100
		B	White plaster	10		ND	0	100
		C	Pink granular perlitic plaster	20		ND	TR	100
		D	Pink granular plaster	65		ND	TR	100

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

RESERVOIRS ENVIRONMENTAL INC.

NVLAP Lab Code 101896-0

TABLE: PLM BULK ANALYSIS, PERCENTAGE COMPOSITION BY VOLUME

RES Job Number: **RES 395850-1**
 Client: **Boulder Environmental, Inc.**
 Client Project Number / P.O.: **None Given**
 Client Project Description: **971 Tennyson St.**
 Date Samples Received: **December 04, 2017**
 Method: **EPA 600/R-93/116 - Short Report, Bulk**
 Turnaround: **24 Hour**
 Date Samples Analyzed: **December 05, 2017**

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 (%)		
12-1-CN-34H	EM 1984199	A	Pink/multi-colored paint	10		ND	0	100
		B	White plaster	45		ND	0	100
		C	Pink granular perlitic plaster	45		ND	TR	100

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


 Anya Angst
 Analyst


 Anita Grigg
 Analyst / Data QA

RES Job # 355856 Page 2 of 2
 Submitted by: Bonduy Ealk
971 Tennyson

Client sample ID number (Sample ID's must be unique)

11 12-1-EN-11D
 12 123
 13 14
 14 15E
 15
 16
 17
 18 18F
 19
 20
 21 216
 22
 23
 24 24
 25 25F
 26
 27 27
 28
 29
 30
 31
 32 32H
 33 33H
 34 34H
 35
 36
 37
 38
 39
 40
 41

note
 32H
 33H
 34H

REQUESTED ANALYSIS		VALID MATRIX CODES		LAB NOTES:	
PLM - Short report, Long report, Point Count	PLM - AHERA, Level II, 7402, ISO, +/-, Quant, Semi-quant, Micro-vac, ISO-Indirect Preps	Air = A Dust = D Soil = S Swab = SW Drinking Water = DW Waste Water = WW O = Other	Bulk = B Paint = P Wipe = W F = Food		
METALS - Analyte(s) RCRA 8, TCLP, Welding Fume, Metals Scan	ORGANICS - METH, TSS	Matrix Code	Time Collected M/mm/yy	EM Number (Laboratory Use Only) 1584175	
DUST - Total, Respirable	PATHOGENS: Aerobic Plate Count, Salmonella, E. coli O157:H7, Listeria, S. aureus, Campylobacter, +/-, or Quantification	# Containers	Date Collected mm/dd/yy	27-05-20 - NMJ net 28-05-20 - NMJ net 28-05-20	
PCM - 7400A, 7400B, OSHA	MICROBIOLOGY State Water (Please Circle One) Yes / No E. coli and/or Coliforms: +/- or Quantification M or Bacteria, Fungal, +/- or Quantification Legionella: +/- or Quantification Other: Bioburden, LAL or Environmental	Sample Volume (L) / Area	**ASTM E1792 approved wipe media only**		
TEM - AHERA, Level II, 7402, ISO, +/-, Quant, Semi-quant, Micro-vac, ISO-Indirect Preps	Mold Spore Trap or Bulk: +/-, Identification, Quantification, Viable or Non-Viable				
PLM - Short report, Long report, Point Count	SAMPLER'S INITIALS OR OTHER NOTES:				

Boulder Environmental Inc.

BULK SAMPLE LOG

DATE: 12-1-17 ^{1/4}

2400 Broadway, Unit B, Boulder, CO 80304, Phone: (303) 382-1175, Fax: 1 (866) 699-4121,
Email: Chris@BoulderEnvironmental.com

LOCATION: 971 Tennyson

COMPANY BILLING INFO: Cribbs Construction

Address _____, City _____, Zip: _____

NAME: Jason Cribbs
Phone _____ Mobile _____ Email: cribbsco@gmail.com

CONSTRUCTION ERA: _____ SCOPE: Complete building demolition Residential Commercial
 Detached garage shed/s Renovation/restoration pop top will need a permit Sample per client's direction:
 AHERA Protocol followed - Minimum 3 samples, 5 samples for surfacing materials 1,000s.f.-5,000s.f., 7 samples if >5,000s.f

SAMPLE ID	MATERIAL	BUILDING LOCATION	QUANTITY
12-1-01A	rough / D	LR EW	
02A	↓	↓ WW	
03A	↓	↓ NW	
04B	stipple/circles / P	LR C	
05B		↓ ↓	
06B			
07C	circles / P	NE BR C	
08C		DR C	
09C		NE BR closer WW	
10D	smooth / P	KIT EW	
11D	OP / DW ↓	BATH WW	
12D	↓	laundry NW	
13D	circles / P filler	Kit under sub	
14D	circles / P flooring - layers -	Kit top layers	

Double check: Duct-work Boiler insulation Pipes (radiant / domestic) Flue Breeching cement Transite
ACCESSED: Crawl space Basement Attic insulation type: _____ Roof: _____
 Chk under carpeting, built up floors Check heating system(s) Type: Steam Forced air, Baseboards, Stove

<p>FOR demo APPLICATION</p> <input type="checkbox"/> vinyl asbestos floor tile VAT <input type="checkbox"/> VAT mastic <input checked="" type="checkbox"/> Tar/asphalt impregnated roofing <input type="checkbox"/> Asphaltic pipe coatings <input type="checkbox"/> Caulking <input type="checkbox"/> Glazing <input type="checkbox"/> other _____	<p>FOR demo APPLICATION For Detached GARAGE</p> <input type="checkbox"/> vinyl asbestos floor tile VAT <input type="checkbox"/> VAT mastic <input checked="" type="checkbox"/> Tar/asphalt impregnated roofing <input type="checkbox"/> Asphaltic pipe coatings <input type="checkbox"/> Caulking <input type="checkbox"/> Glazing <input type="checkbox"/> other _____
--	--

PACM Paper boots & ? - need to see for garage
AREA(S) INACCESSIBLE: garage & basement

Samples Collected By: Maccarato Date: 12-1-17 Time: _____
Samples Received By: _____ Date: _____ Time: _____

2/4

Boulder Environmental Inc.

BULK SAMPLE LOG

DATE: 12-17

LOCATION: 971 Tennyson St

SAMPLE ID	MATERIAL	BUILDING LOCATION
12-1-CW-15E	thick wavy circles/p	N BR EW
16E	↓	SW
17E	↓	WW
18F	wavy lines/p	NW BR EW
19F	↓	WW
20F	↓	SW
21G	perfect circles/p	NW BR C
22G	↓	↓
23G	↓	↓
24	DW/SC	DR NW
25F	wavy lines/p	DR EW
26F	↓	↓ SW
27	formaldehyde pressed wood pencils	LR SW
28	CT white holes	LR drop C 2-4
29	SF	Bath EW,
30	SF	BATH FLOOR

Material	Location	Quantity
Sheet flooring:	Floor tile:	Roofing: Windows:

Presumed:

Paper/Tape:

4/4

Location:

971 Tennyson ST

MATERIAL	BUILDING LOCATION	QUANTITY
Rough/P	LRW (3)	350
stipple/circles	LRC (3)	110
circles/P DW	NE BR C & closet W&C N BR C DRW DRC (3)	
smooth/P OP/DW	DRW , KIT W&C, laundry W&C (5) Bath W&C KIT NW, partial EN	
thick wavy circles/P	N BRW (3)	
wavy lines	NW BR W, DR W (behind paneling) (5) DR W (behind paneling)	
perfect circles/P	NW BR C (3)	100 ² ft
smooth/P	KIT SW, WW, partial EN, NW doorway to NW BR & KIT & LR	
SHEET FLOORING: Brown/KIT orange/bath tan/NE BR		
OCCUPIED?: NO		
NOTES:		
FLOOR TILE: N BR closet ww	ROOFING: Composite	WINDOWS:
PAPER/TAPE: Boots and need to see furnace	TILE N GROUT:	NO ACCESS TO: garage & Basement



April 28, 2018

Subcontract Number: NA
Laboratory Report: RES 406913-1
Project # / P.O. # None Given
Project Description: 971 Tennyson St.

Derek D'Avignon
Boulder Environmental, Inc.
2400 Broadway, Unit B
Boulder CO 80304

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 406913-1 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 "Elizabeth Martel". Below the signature is the printed name "Elizabeth Martel" in a small, 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 406913-1**
 Client: **Boulder Environmental, Inc.**
 Client Project Number / P.O.: **None Given**
 Client Project Description: **971 Tennyson St.**
 Date Samples Received: **April 25, 2018**
 Method: **EPA 600/R-93/116 - Short Report, Bulk**
 Turnaround: **24 Hour**
 Date Samples Analyzed: **April 28, 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 (%)		
4-25-DD-35I	EM 2073659	A	Gray granular material	15		ND	0	100
		B	Green granular material w/ red paint	85		ND	0	100
4-25-DD-36I	EM 2073660	A	Gray granular material	15		ND	TR	100
		B	Green granular material w/ red paint	85		ND	TR	100
4-25-DD-37I	EM 2073661	A	Green granular material w/ red paint	15		ND	TR	100
		B	Gray granular material	85		ND	TR	100
4-25-DD-38I	EM 2073662	A	White granular material	45		ND	TR	100
		B	Green granular material w/ red material	55		ND	TR	100
4-25-DD-39I	EM 2073663	A	Gray granular material	100		ND	TR	100

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



Jessica L. Olmhausen

Analyst / Data QA

Due Date: 5/26/18
 Due Time: _____



RES 406913

INVOICE TO: (IF DIFFERENT)

Company: **Boulder Environmental, Inc.**
 Address: 2400 Broadway, Unit B
 Boulder CO 80304

Company: **Derek D'Avignon**
 Address: _____
 Phone: _____
 Fax: _____
 Cell/pager: 303-949-2965

Project Number and/or P.O. #: _____
 Project Description/Location: 971 YENNING ST.

Final Data Deliverable Email Address: labs@boulderenvironmental.com

Contact Information:
 Contact: _____
 Phone: _____
 Fax: _____
 Cell/pager: _____

ASBESTOS LABORATORY HOURS: Weekdays: 7am - 7pm & Sat. 8am - 5pm
 (Rush PCM = 2hr, TEM = 6hr.)

PLM / PCM / TEM RUSH (Same Day) PRIORITY (Next Day) STANDARD (3-5 Day)

CHEMISTRY LABORATORY HOURS: Weekdays: 8am - 5pm
 Metal(s) / Dust** RUSH 24 hr. 3-5 Day
 RCRA 8 / Metals & Welding RUSH (3 Day) 5 Day 10 Day
 Fume Scan / TCLP** RUSH 24 hr. 3 day 5 Day

ORGANICS
 Microbial Growth* 24-48 Hour
 Legionella 5-10 Day
 Mold RUSH 24 Hr 48 Hr 3 Day 5 Day

MICROBIOLOGY LABORATORY HOURS: Weekdays: 9am - 6pm
 E.coli and/or Coliforms* 24-48 Hour
 Pathogens* 24-48 Hour
 Microbial Growth* 5-10 Day
 Legionella 10 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)
4-25-00-35
-36
-37
-38
-39

Number of samples received: 3
 NOTE: REI will analyze 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: [Signature] Date/Time: 5/25/18 12:59 Carrier: FedEx

Laboratory Use Only
 Data Entry Contact: [Signature] Phone Email Fax
 QA: [Signature] Phone Email Fax

Date Date Date Date Date Date Date Date Date Date
 Time Time Time Time Time Time Time Time Time Time
 Initials Initials Initials Initials Initials Initials Initials Initials Initials Initials

Sample Condition: On Ice Sealed
 Temp. (F°) Yes / No Yes / No
 Contact: Intact

Client sample ID number	Sample Volume (L) / Area	Matrix Code	# Containers	Date Collected	Time Collected	EM Number (Laboratory Use Only)	REQUESTED ANALYSIS		MICROBIOLOGY		VALID MATRIX CODES		LAB NOTES:
							PLM - Short report, Point Count, Long report, Qualitative	TEM - AHERA, Level II, 7402, ISO +/- (Air, Bulk or Dust), Quant, Semi-Quant, Micro-vec, ISO-Indirect Preps	PCB - 7400A, 7400B, OSHA	DUST - Total, Respirable	METALS - Analyte(s), RCRA 8, TCLP, Welding Fume, Metals Scan, pH	ORGANICS - METH, TSS	
1												Air = A Bulk = B Dust = D Paint = P Soil = S Wipe = W F = Food Drinking Water = DW Waste Water = WW O = Other **ASTM E1792 approved wipe media only**	207X659
2													60
3													2
4													3
5													
6													
7													
8													
9													
10													

Boulder Environmental Inc.

2400 Broadway, Unit B, Boulder, CO 80304, Phone: (303) 382-1175, Fax: 1 (866) 699-4121, Email: Info@BoulderEnvironmental.com

BULK SAMPLE LOG

LOCATION: 971 TERRYSON ST, DENVER

DATE 4/25/18

SAMPLE ID	MATERIAL SAMPLED	BUILDING/LOCATION	QUANTITY

Homogeneous areas

Material	Locations	Quantity
THICK NAVY CERES (E)	ADD - KIT - CEILING NORTH - C NW WALL - C	~500SF -
Stucco (I)	EXTERIOR OF HOUSE	1,400SF 5
SMOOTH PLASTER (H)	ADD - 125 SF TO BASE STAIRS & LANDING	125 SF -
HOUSE IS UNSEALED/CONTAMINATED		
GARAGE - ROOFING ONLY ~ 300SF		
BASE		
VAT/MASTIC		
CAULKING/GLAZING		
TAR IMPREGNATED ROOFING		

2/2



Colorado Department
of Public Health
and Environment

ASBESTOS CERTIFICATION*

This certifies that

Derek D'Avignon

Certification No.: 10177

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: October 02, 2017

Expires: October 07, 2018

** 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



1775 West 55th Avenue
Denver, CO 80221
303.410.4941
trainingchc.com

Certifies that

Derek D'Avignon
10177

*Has Successfully Completed the EPA- Approved Annual Asbestos Refresher Training Course
Under Section 206 of the Toxic Substance Control Act (TSCA), Title II.*

BUILDING INSPECTOR



Course Date: August 29, 2017
Certificate No.: R17-1590-AI-CO
No. of Hours: 4
Expiration Date: August 29, 2018
Instructor: Brendan Hainsworth
Certification not valid without watermark

Danaya Benedetto
Danaya Benedetto- Training Program Manager



Colorado Department
of Public Health
and Environment

Lead Evaluation Firm Certificate

This certifies that

Boulder Environmental, Inc.

LEF No.: 21158

has met the requirements of 25-7-1104, C.R.S. and Air Quality Control Commission Regulation No. 19, and is hereby certified by the state of Colorado to perform lead-based paint evaluation activities in the state of Colorado.

Issued: April 17, 2018

Expires: April 17, 2019

Croquis Barola
Authorized APCD Representative

SEAL