

Close Out Documents

AP-73 – 4600 Clayton St.

Asbestos Abatement and Structural Demolition

Prepared for:

Kiewit Infrastructure Co. Attn: Megan Wood 160 Inverness Drive West. Suite 110 Englewood CO 80112

JKS INDUSTRIES

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1. Closeout Letter



February 18, 2019

Kiewit Infrastructure Co. 160 Inverness Drive West, Suite 110 Englewood, CO 80112

Re: SSCR AP-73 4600 Clayton St.

Dear Kiewit Infrastructure Co.

This letter is confirm that all the work associated with the asbestos abatement and demolition of the structure located at 4600 Clayton St. Denver, CO 80216, also referred as parcel AP-73, is complete.

The scope of work included asbestos abatement, demolition of an 1,654 square foot residential structure, demolition of a 325 square foot detached garage, and the removal of the curb and driveway. No Regulated Building Materials (RBMs) were found on the site.

This document has been prepared to furnish you with key documents associated with this project for your records.

On behalf of the JKS Industries team, we would like to extend our appreciation to working with you on this project and look forward to working with you in the future.

Regards,

Jeffrey Knight, President



2. CDPHE Asbestos Abatement Permit

Colorado Department of Public Health and Environment

Air Pollution Control Division – Indoor Environment Program – Asbestos/IAQ Unit 4300 Cherry Creek Drive South, APCD-IE-B1
Denver, Colorado 80246-1530
Phone: 303-692-3100 – Fax: 303-782-0278

E-mail: asbestos@state.co.us

ASBESTOS ABATEMENT PERMIT

This permit is granted subject to Colorado Air Quality Control Commission Regulation No. 8, Part B, adopted December 21, 2007, and effective January 30, 2008, the Colorado Air Pollution Prevention and Control Act (25-7-101 or 25-7-501 et seq., C.R.S.) and the following provisions. It is only for the purpose of allowing asbestos abatement.

ADDITIONAL PERMIT PROVISIONS:

By performing work under this permit the abatement contractor agrees that the Division may revoke or suspend this permit should the Division find that the contractor:

- has violated or has aided and abetted in the violation of 25-7-101 or 25-7-501 et seq., C.R.S. or Regulation No. 8, Part B, or an order of the Division or Commission,
- has failed to meet any permit and notification requirement or failed to correct any violations cited by the Division during any inspection within a reasonable period of time, as may be determined by the Division,
- has used misrepresentation or fraud in obtaining this permit, or,
- has committed any act or omission which does not meet generally accepted standards of the practice of asbestos abatement.

As a contractor, you may be subject to other licenses and permits, depending on the requirements of the county and municipality in which the work is being performed. The Colorado Department of Public Health and Environment, Air Pollution Control Division strongly suggests that you check with county and municipal authorities in order to determine any other local building/permitting requirements that must be met.

THE ORIGINAL PERMIT MUST BE POSTED ON SITE AT ALL TIMES.

Immediately notify the Asbestos/IAQ Unit of project modifications by fax (number above) or e-mail (address above) and the appropriate county health department by fax. Project modifications include changes in the scope of work or the scheduled work dates, etc.

This asbestos abatement permit is valid beginning 10/23/2018 through 11:59 PM on 10/22/2019. The actual scheduled work dates are from 12/6/2018 through 12/19/2018.

Approval issued on: 11/19/2018

Notice Number: 18DE7238A-21

Variance: None
Comments: None

Record number: 143492

For the location specified below:

AP-73 residential Room 3 & Basement 4600 Clayton St. Denver Denver County

This permit has been issued to:

Fee paid: \$80.00 Check number: 5663

Project Supervisor:

Andre M. Williams

Cerification No.: 15776

Project AMS:

Logan Greenfield

Cerification No.: 20715

Project Manager: WAIVED

Certification No.: 15045

JKS Industries, LLC 747 Sheridan Blvd Unit 9A Lakewood, CO 80214

Issued by: CA

ASBESTOS ABATEMENT NOTIFICATION and PERMIT APPLICATION FORM

FEE MUST ACCOMPANY THIS FORM. INCOMPLETE APPLICATIONS WILL BE RETURNED.

** 1876 **
Colorado Department
of Public Health
and Environment

[code 100] D SO Courtesy Notice
Code 100 D St Coditesy Notice
[code 105] S80 Non-Public Access Notice
[code 110]
[code 130/232]
[code 190/292] S800 90-Day P&C/SFRD Permit
[code 165/267] \$1200 365-Day P&C/SFRD Permi
[code 177] \$80 Phase Of Multiple

Abatement Contractor				Abaten	nent Site			Buil	ding Ow	ner		
Company Name JKS Industries			Building Name	AP-73 R	Residential			Owner Name	CDOT			
Street Address 747 Sheridan Blvd. Unit 9A			Specify location in the building where work will take place (e.g. floor, room, wing, etc.) Room 3 and Basement				Contact Athony DaVito					
City . State Zip code CO 80214			Street Address	4600 Cla	yton Street			Street Address	00 S. Holly St			
Telephone # (303) 238-0207			2	Çity Denver	County	y Denver		Zip code 80216	City Denver		State	Zip code 80222
Project Supervisor Theo Rowla			Cert # 10317	Building Contact Cell Phone # (817) 320-6749			Telephone # (303) 512-5900	Fax#)			
Project Personnel			Pr	oject Ir	nformatio	on		Dis	posal Si	te		
CO Project Mgr. Name See Project Manaer Waiver form from CDOT		Start Date		Landfill Name Denver	Arapahoe Dis	posall						
Cell Phone #	Phone # CO Project Designer #		ner#	Start Time 6:30am AM PM		End Time	AM	5:00 PM	Street Address 3500 Sc	outh Gun Club	Road	
CO Project Designer Name Daniel Beecke			Check the day(s) of ope	eration: Su	M Tu W	Th F	Sa	City Aurora		State CO	Zip code 80018	
Cell Phone # (303) 232-2660	CO Project	ct Design 947	ier#	Emergency? Y□ N⊠	Type of ACM: TSI, Texture, VAT, etc. Paper Duct Wrap and VAT		CDPI	HE Use C	only			
Consulting Firm Name All Phase Consult	ing, Inc.	Regis	stration # 15979	Linear Feet / Type	Square Fe	eet / Type	55 gal.	Drums	Postmark or Delivery date	1/9/18	Approv	red by:
A.M.S. Name Logan Greenfield				Paper Duct Irap			Form of Payment & #	1 80,00	PM rec	I,q.S. M. M.		
Cell Phone # CO A.M.S. Cert #			338 SF	F of VAT			Pemil*072284	Record #	Date Is	sued:		

Please describe below the work practices and procedures to be employed in conducting the abatement of asbestos. <u>BE SPECIFIC</u>. Indicate type(s) of ACBM to be abated (e.g. VAT, ceiling tile, TSI, etc.). Use another page if necessary.

This Phase 21 project will consist in removal and disposal of 10 SF of paper duct warp under a secondary Glovebag containment. The friable materials will be removed using small hand tools (carpenters hammer, cats claw, crow bar and chisels) the material will be kept wet (1500 psi airless sprayer with amended water). The material will be enclosed in a glovebag and a secondary containment, will employ negative air pressure, a two chamber decontaminatin with HEPA vaccum and wet rags. This work will be completed per the Appendix A small scale projects guide lines. All work will be in accordance with Colorado Regulation #8 Part B. The secondary glove bag conatinment will be inspected and cleared by a State Certified AMS.

This project will consist in removal and disposal of 338 SF of VAT under a secondary containment. The non-friable materials will be removed using small hand tools (carpenters hammer, cats claw, crow bar and chisels) the material will be kept wet (1500 psi airless sprayer with amended water). The secondary containment, will employ negative air pressure, a two chamber decontaminatin with HEPA vaccum and wet rags. The secondary containment will be inspected and cleared by a State Certified AMS. The VAT floor tile will remain non-friable thru out the removal and disposal process.

Submit form to: Permit Coordinator

Colorado Dept, of Public Health and Environment APCD-IE-B1

4300 Cherry Creek Drive South Denver, CO 80246-1530 Phone: 303-692-3100 Fax: 303-782-0278 asbestos@state.co.us



3. CDPHE Demolition Permit

Colorado Department of Public Health and Environment

Air Pollution Control Division – Indoor Environment Program – Asbestos/IAQ Air Unit 4300 Cherry Creek Drive South, APCD-IE-B1
Denver, Colorado 80246-1530
Phone: 303-692-3100 – Fax: 303-782-0278

E-mail: asbestos@state.co.us

DEMOLITION APPROVAL NOTICE

This approval notice is granted subject to Colorado Air Quality Control Commission Regulation No. 8, Part B, adopted December 21, 2007, and effective January 30, 2008 and the Colorado Air Pollution Prevention and Control Act C.R.S. (25-7-101 and 25-7-501 et seq). This notice signifies that the structure was inspected for asbestos, luminous exit signs (containing radioactive material), and Ozone-Depleting Refrigerants and the demolition contractor has properly notified the Colorado Department of Public Health and Environment pursuant to Regulation No. 8, Part B.

As a contractor, you may be subject to other demolition licenses and permits, depending on the requirements of the county and municipality in which the work is being performed. The Colorado Department of Public Health and Environment, Air Pollution Control Division, strongly suggests that you check with county and municipal authorities in order to determine any other local building/permitting requirements that must be met.

Please note that certain asbestos-containing materials (ACM) may remain in the structure during demolition. Therefore, any demolition debris left behind after the completion of post-demolition site cleanup may constitute a "reason to know of asbestos-contaminated soil" at the site, subject to the requirements of Section 5.5 of the Solid Waste Regulations (6 CCR 1007-2, Part 1).

THE ORIGINAL APPROVAL NOTICE MUST BE POSTED ON SITE AT ALL TIMES.

Immediately notify the Asbestos/IAQ Unit of project modifications by fax (number above) or e-mail (address above) and the appropriate county health department by fax. Project modifications include changes in the scope of work or the scheduled work dates, etc.

This demolition approval notice is valid beginning 12/26/2018. The actual scheduled work dates are from 12/26/2018 through 1/31/2019.

Approval issued on: 12/27/2018

Record number: 144524
Notice Number: 18DE8621D
For the location specified below:

AP-73 Residential

4600 Clayton St. Denver

Denver County

This notice has been issued to:

JKS Industries, Inc. 747 Sheridan Blvd. Unit 9A Lakewood, CO 80214 Fee Paid: \$60.00

Check number: 5889

Asbestos Building Inspector:

Logan Greenfield

Cerification No.: 20715

Inspection Date:

12/19/2018

Jeffyhoff

Issued by:



olorado Department of Public Health and Environment

DEMOLITION NOTIFICATION APPLICATION FORM

APPLICATION FEE MUST ACCOMPANY THIS FORM INCOMPLETE APPLICATIONS WILL BE RETURNED

(Notice will be mailed to the demolition contractor unless specified otherwise)

Fee: \$50 + \$5 per 1000 ft² of area to be demolished = \$ 60.00 (See instruction #1 on reverse side)

Submit form to:
Permit Coordinator
Colorado Dept. of Public
Health and Environment
APCD-IE-B1
4300 Cherry Creek Drive
South
Denver, CO 80246-1530
Phone: 303-692-3100
Fax: 303-782-0278
Asbestos@state.co.us

	Company Name:			Building Name:	72 D!	lantial			
	JKS	Industries		AP- Square footage of footprint of facil	73 Resid		be demolished		
	Street:	idan Blvd. #9A			Square rootage of tootprint of facili	1654	on or lacinty to	DC dCITIONOTICS	
to	City:	State:	Zip Code:		Street:				
lac.	Lakewood	CO	80214	Site		00 Clayto County:	on St.	Zip Code:	
Demolition Cor	Telephone # (303) 238-0207	Fax # (303) 238-0	0452	L	Denver		Denver	80216	
	Project Manager:	Cell Phone #		ij	Proposed Start Date	Pro	posed Comple	etion Date 1/2019	
	Jeffrey Knight	(720) 402-4	9	12/26/2018 Method/Means of Demolition:		1/3	1/2019		
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	Signature:		ey Knight						
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	General Abatement Contractor (C	GAC) S Industries		ner	Owner's Name:	CDO	Γ		
Asbestos Removal Contractor	CDPHE Asbestos Permit # 18DE7238A-21		f Asbestos Removed 48 SF	g Owner	Street: 20	00 S Ho			
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. 0	Type(s) of Asbestos-Containing	Material Removed: act Wrap, 338 SI	FVAT	Bu	Contact's Name: Anthony DaVito		Telephone (303) 5		
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* Regulated asbestos-containing materials means (a) <u>Inable asbestos-containing materials</u>, (b) <u>Category I nonfriable ACM</u> that will be or has been subjected to sanding, <u>grinding</u>, <u>cutting</u>, or abrading or (d) <u>Category II</u> nonfriable ACM that has a high probability of becoming or has become crumbled, pulverized, or reduced to powder by the forces expected to act on the material in the course of <u>demolition</u> or <u>renovation</u> operations regulated by this regulation. Note: Asbestos-containing sheet vinyl and linoleum must be properly abated/removed prior to demolition.

Form: DNA08

Rev. 01/30/08

Colorado Department of Public Health and Environment

Air Pollution Control Division – Indoor Environment Program – Asbestos/IAQ Air Unit 4300 Cherry Creek Drive South, APCD-IE-B1
Denver, Colorado 80246-1530
Phone: 303-692-3100 – Fax: 303-782-0278

E-mail: asbestos@state.co.us

DEMOLITION APPROVAL NOTICE

This approval notice is granted subject to Colorado Air Quality Control Commission Regulation No. 8, Part B, adopted December 21, 2007, and effective January 30, 2008 and the Colorado Air Pollution Prevention and Control Act C.R.S. (25-7-101 and 25-7-501 et seq). This notice signifies that the structure was inspected for asbestos, luminous exit signs (containing radioactive material), and Ozone-Depleting Refrigerants and the demolition contractor has properly notified the Colorado Department of Public Health and Environment pursuant to Regulation No. 8, Part B.

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Please note that certain asbestos-containing materials (ACM) may remain in the structure during demolition. Therefore, any demolition debris left behind after the completion of post-demolition site cleanup may constitute a "reason to know of asbestos-contaminated soil" at the site, subject to the requirements of Section 5.5 of the Solid Waste Regulations (6 CCR 1007-2, Part 1).

THE ORIGINAL APPROVAL NOTICE MUST BE POSTED ON SITE AT ALL TIMES.

Immediately notify the Asbestos/IAQ Unit of project modifications by fax (number above) or e-mail (address above) and the appropriate county health department by fax. Project modifications include changes in the scope of work or the scheduled work dates, etc.

This demolition approval notice is valid beginning 12/26/2018. The actual scheduled work dates are from 12/26/2018 through 1/31/2019.

Approval issued on: 12/27/2018

Record number: 144525 Notice Number: 18DE8622D

For the location specified below:

AP-73 Garage

4600 Clayton St. Denver

Denver County

This notice has been issued to:

JKS Industries, Inc. 747 Sheridan Blvd. Unit 9A Lakewood, CO 80214 Fee Paid: \$55.00

Check number: 5889

Asbestos Building Inspector:

Logan Greenfield

Cerification No.: 20715

Inspection Date:

12/19/2018

Issued by:

Jeffyhoff



olorado Department of Public Health and Environment

DEMOLITION NOTIFICATION APPLICATION FORM

APPLICATION FEE MUST ACCOMPANY THIS FORM INCOMPLETE APPLICATIONS WILL BE RETURNED

(Notice will be mailed to the demolition contractor unless specified otherwise)

Fee: \$50 + \$5 per 1000 ft² of area to be demolished = \$____55.00 (See instruction #1 on reverse side)

Submit form to:
Permit Coordinator
Colorado Dept. of Public
Health and Environment
APCD-IE-B1
4300 Cherry Creek Drive
South
Denver, CO 80246-1530
Phone: 303-692-3100
Fax: 303-782-0278

Asbestos@state.co.us

					and the same of th					
	Company Name: JKS Industries				Building Name:	AP-73 G	arage			
tion Contractor	Street:	dan Blvd. #9A			Square footage of footprint of facility or portion of facility to be demolished 325					
	City:	State:	Zip Code:	0	Street: 4600 Clayton St					
	Lakewood Telephone #	CO Fax#	80214	Site	City:	County:		Zip Code: 80216		
	(303) 238-0207	(303) 238-0	1452	ion	Denver Proposed Start Date	Pr	Denver roposed Complet			
	Project Manager: Jeffrey Knight	Cell Phone # (720) 402-4	410	oji t	12/26/2018 1/31/2019					
	I certify that the Certified Asbestos about any remaining asbestos-condemolished.	Building Inspector h	as informed me	Demolition	Method/Means of Demoli		☐ Moving ☐ O	ther, specify:		
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tos val ctor	CDPHE Asbestos Permit #		f Asbestos Removed	Owner	Street:	2000 S H	olly St.			
Asbestos Removal Contractor	Date Removal Completed	Telephone #		Building	City: Denver	*	State:	Zip Code: 80222		
8 8 8	Type(s) of Asbestos-Containing Material Removed:				Contact's Name: Anthony DaV	Anthony DaVito Telephone 4 (303) 51 RA accreditation and state of Colorado con the facility to be demolis				
Certified Asbestos Inspector Certification	Signature: (In Blue Ink) Date of Final Inspection CO	lock above, sa accredited laborat I have informaterial allowed ow: (check aportile (VAT) oatings Ca	ampled all suspendent and the owner to stay in the fapropriate box(VAT mastic ulking Glazing Glazing Harris Glazing Harris Glazing Harris Glazing Harris Glazing Harris Glazing Harris Glazing Glazi	ect may ect may eve deter (opera acility res): Tar/a: ng Print	remains, had all sample ermined that no Regul tor of the facility or the must remain non-friable sphalt impregnated roother, specify: Logan Logan (719) 545-03	lated ACM e demolition de during of American Central C	A exists anyon contractor demolition. Asphaltic pip A'e d II Phone # (719)	where in the or that any Specify type(s) be coatings		
Building Owner or	I verify that all refrigerants from 15 (for information on CFC r	om air conditionin equirements call 6 vith 6 CCR 1007-1	g/refrigeration appl 592-3100). I further subpart 3.6.4.3 (fo	Other	ation on luminous exit sign	Date:	ance with AQC adioactive mate ts call 303-692	erial) have been -3320).		
		, ,	THIS BOX IS FOR	CDPI	HE USE ONLY!	1 -	J [7		
Postmarl	k or Hand Delivery Date:	2/20/18,	Approved B	By:	1111	Code:	1	transfer-380		
Form of	Payment & #: check	F 5889 55	00 Permit#	PSI	material, (b) Category I nor		ate Issued:			

* Regulated asbestos-containing materials means (a) <u>triable asbestos-containing material</u>, (b) <u>Category I nonfriable ACM</u> that will be or has been subjected to sanding, <u>orinding</u>, <u>cutting</u>, or abrading or (d) <u>Category II</u> nonfriable ACM that has a high probability of becoming or has become crumbled, pulverized, or reduced to powder by the forces expected to act on the material in the course of <u>demolition</u> or <u>renovation</u> operations regulated by this regulation.

Note: Asbestos-containing sheet vinyl and linoleum must be properly abated/removed prior to demolition.

Rev. 01/30/08



4. JKS Asbestos Certifications



Colorado Department of Public Health and Environment

General Abatement Contractor

This certifies that

JKS Industries, LLC

GAC No.: 18531

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

Issued: July 18, 2018

Expires: July 18, 2019

Authorized APCD Representative

SEAL



5. JKS Workers Asbestos Certifications



INTERNATIONAL.



Environmental and Safety Training LLC 720 Billings Street Unit F Aurora, Colorado 80011 Phone # (720) 859-3134 Fax # (720) 859-0660

CERTIFIES THAT

GEORGE W. THOMAS

Has successfully completed

The EPA- APPROVED AHERA ANNUAL ASBESTOS REFRESHER

COURSE for CONTRACTOR/SUPERVISOR

And passed the requirements examination in that discipline

This course is EPA-Approved under Section 206 of the **Toxic Substance Control Act (TSCA)**

Course Date 10/06/2018

No. Hours

Certificate No.

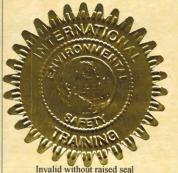
CO100618-04ASR

Expires

10/06/2019

This course meets the requirements of

AQCC Reg. #8 Part B



Training Director

Midtown Occupational Health Services 2490 W. 26th Ave. Ste. 300-A Denver, CO 80211 Phone: (303) 831-9393 Fax: (303) 831-6335 OSHA Asbestos Certification

Applicant	s Name Gorge Thomas
The abov	e individual was seen by me on 1 8 in accordance to 29 CFR 1(Asbestos Certification) and 29 CFR 1910.134 (Respirator Certification). The following
1.	Completion and review of the standardized medical questionnaire and work history with special emphasis directed to the pulmonary, cardiovascular, and gastrointestinal systems per Appendix D in 1926.1101
2.	Reviewed the employer's description of this individual's duties as they relate to asbestos exposure, the anticipated exposure level, and the personal protective and respiratory equipment to be utilized by this individual.
3.	Review of information from previous medical examinations, if available.
4.	A physical examination with emphasis upon the pulmonary, cardiovascular, and gastrointestinal systems, including a pulmonary function test of forced vital capacity (FVC) and forced expiratory volume at one second (FEV-1).
5.	Determined that a chest roentgenogram was was not required as part of this examination. (note: according to CFR 1926.1101 (M)(2)(ii)(C) it is at the discretion of the physician whether or not a chest X-ray is required)
6.	Reviewed OSHA's Medical Evaluation Questionnaire in Appendix C Part A Section 2 in accordance with 29CFR 1910.134 and have determined that this individual may may not use a respiratory device while performing his/her required duties.
7.	The employee has been instructed to report any difficulties in using the respirators or any change of physical status to their supervisor or physician.
8.	In accordance with OSHA requirements, I have fully explained the results of the medical examination and laboratory tests to the above named patient.
9.	In accordance with OSHA I have informed this individual of the health risks involved with smoking, of the synergistic relationship between cigarette smoking and asbestos exposure in producing lung cancer, and that cessation of smoking will reduce the risk of lung cancer.

Midtown Occupational Health Services 2490 W. 26th Ave. Ste. 300-A Denver, CO 80211 Phone: (303) 831-9393 Fax: (303) 831-6335 OSHA Asbestos Certification

There is no detected medical condition which would place this employee at an increased risk of material health impairment from exposure to asbestos, and there are no recommended limitations on the employee concerning the use of personal protective equipment or respirator.						
There is a detected medical condition(s) which places this employee at an increased risk. See comments below for limitations:						
Comments/ Limitations						
Balse Symph C Examining Provider	02/01/18 Date					

Richard Kraus M.S., PA.-C Midtown Occupational Health Services, P.C. 2490 W. 26th Ave., Bldg. A, Suite 300 Denver, CO 80211 303-831-9393



Respirator Fit Test

I, GEORGE THOMAS acknowledge that I have been fit tested and trained for the proper use and
care of my respirator. I have read and understand JKS's written respiratory program manual.
Date of Fit Test: 5 7 18 Fit Test Conductor: Ruben Domingo
Respirator Information
Manufacturer: North
2. Model: 7700M
3. Size (Circle one): SMALL MEDIUM LARGE
4. Approval Number: TC-84A-0592
Irritant smoke used (Circle one)? YES NO
Please initial the following as each test is completed:
Breathe normally through the respirator
breathe normally through the respirator
Breathe deeply through the respirator. Be certain that your breaths are deep and regular
Turn your head from one side to the other to the fullest extent about every second without bumping the respirator of your shoulders. Ensure that your movement is complete. Inhale on each side.
Nod your head up and down to the fullest extent about every second without bumping the respirator on your chest. Ensure that your movement is complete and can be completed quickly. Inhale when you are facing up.
Do several jumping jacks to ensure that the respirator does not come loose from your face.
Move your mouth to its fullest extent; for example, yawn, move your jaw around, etc. Ensure that you can move you mouth as necessary without compromising the fit of the respirator.
Read the Rainbow Passage
When the sunlight strikes raindrops in the air, they act like a prism and form a rainbow. A rainbow is a division of whi light into many beautiful colors. These take the shape of a long round arch with its path high above and its two ends apparently beyond the horizon. There is, according to legend, a boiling pot of gold at one end. People look, but no or ever finds it. When a man looks for something beyond his reach his friends say he is looking for the pot of gold at the end of the rainbow.
Employee Signature: 5.7.18
Fit Test Conductor Signature: Date: 5/01/18

Colorado Department of Public Health and Environment



Worker



Monica E Barrientos L

xpires: 10/23/2019 Cert. #:25053

Date Issued: 10/23/2018





Environmental and Safety Training L.LC.
720 Billings Street Unit F
Aurora, Colorado 80011
Phone # (720) 859-3134
Fax # (720) 859-0660

CERTIFIES THAT

MONICA E. BARRIENTOS LEPRI

Has successfully completed

The EPA- APPROVED AHERA ASBESTOS COURSE for WORKER

And passed the requirements examination in that discipline

This course is EPA-Approved under Section 206 of the Toxic Substance Control Act (TSCA)

Course Date

10/15/2018 - 10/18/2018

Exam Date

10/18/2018

No. Hours

32

Certificate No

CO101818-03AWI

Expires

10/18/2019



nualid without raised seal

Fluoros !!

Training Director

This course meets the

AQCC Reg. #8 Part B

requirements of

Midtown Occupational Health Services 2420 W. 26th Ave. Ste. 200-D Denver, CO 80211 Phone: (303) 831-9393 Fax: (303) 831-6335

OSHA Asbestos Certification

Applican	ts Name Monieu Barnentos
The abov 1926.110 was prefe	e individual was seen by me on \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
1.	Completion and review of the standardized medical questionnaire and work history with special emphasis directed to the pulmonary, cardiovascular, and gastrointestinal systems per Appendix D in 1926.1101
2.	Reviewed the employer's description of this individual's duties as they relate to asbestos exposure, the anticipated exposure levels and the personal protective and respiratory equipment to be utilized by this individual.
3.	Review of information from previous medical examinations, if available.
4.	A physical examination with emphasis upon the pulmonary, cardiovascular, and gastrointestinal systems, including a pulmonary function test of forced vital capacity (FVC) and forced expiratory volume at one second (FEV-1).
5.	Determined that a chest roentgenogram was was not required as part of this examination. (note: according to CFR 1926.1101 (M)(2)(ii)(C) it is at the discretion of the physician whether or not a chest X-ray is required)
6.	Reviewed OSHA's Medical Evaluation Questionnaire in Appendix C Part A Section 2 in accordance with 29CFR 1910.134 and have determined that this individual may may not use a respiratory device while performing his/her required duties.
7.	The employee has been instructed to report any difficulties in using the respirators or any change of physical status to their supervisor or physician.
8.	In accordance with OSHA requirements, I have fully explained the results of the medical examination and laboratory tests to the above named patient.
9.	In accordance with OSHA I have informed this individual of the health risks involved with smoking, of the synergistic relationship between cigarette smoking and asbestos exposure in producing lung cancer, and that cessation of smoking will reduce the risk of lung cancer.

Midtown Occupational Health Services 2420 W. 26th Ave. Ste. 200-D Denver, CO 80211 Phone: (303) 831-9393 Fax: (303) 831-6335 OSHA Asbestos Certification

risk of material health impairment from e	tion which would place this employee at an increased exposure to asbestos, and there are no recommended he use of personal protective equipment or respirator.
There is a detected medical conditi	on(s) which places this employee at an increased risk.
	profession and the second
Comments/ Limitations	
Examining Provider	10/19/18 Date
	David Orgel, M.D. Midtown Occupational Health Services, P.C. 2490 W. 26th Ave., Bldg. A, Suite 300 Denver, CO 80211 303-831-9393

JKS INDUSTRIES

Respirator Fit Test

A Committee Test
I, Hong ca Barrientos, acknowledge that I have been fit tested and trained for the proper use and
care of my respirator. I have read and understand JKS's written respiratory program manual.
Date of Fit Test: 10 24 18 Fit Test Conductor: Ruber Doming
Respirator Information 1. Manufacturer: North 2. Model: 7700M 3. Size (Circle one): SMALL 4. Approval Number: TC-84A-0592
Irritant smoke used (Circle one)?
Please initial the following as each test is completed:
Breathe normally through the respirator
Breathe deeply through the respirator. Be certain that your breaths are deep and regular
Turn your head from one side to the other to the fullest extent about every second without bumping the respirator of your shoulders. Ensure that your movement is complete. Inhale on each side.
Nod your head up and down to the fullest extent about every second without bumping the respirator on your chest. Ensure that your movement is complete and can be completed quickly. Inhale when you are facing up.
Do several jumping jacks to ensure that the respirator does not come loose from your face.
Move your mouth to its fullest extent; for example, yawn, move your jaw around, etc. Ensure that you can move your mouth as necessary without compromising the fit of the respirator.
Read the Rainbow Passage
When the sunlight strikes raindrops in the air, they act like a prism and form a rainbow. A rainbow is a division of whit light into many beautiful colors. These take the shape of a long round arch with its path high above and its two ends apparently beyond the horizon. There is, according to legend, a boiling pot of gold at one end. People look, but no on ever finds it. When a man looks for something beyond his reach his friends say he is looking for the pot of gold at the end of the rainbow.
Employee Signature: Date: 10 24 10.
Fit Test Conductor Signature: Date: 10/24/2018



INTERNATIONAL

Environmental and Safety Training L.LC.



720 Billings Street Unit F Aurora, Colorado 80011 Phone # (720) 859-3134 Fax # (720) 859-0660

CERTIFIES THAT

IRINA BLANCO BELLO

Has successfully completed

The EPA- APPROVED AHERA ASBESTOS COURSE for WORKER

And passed the requirements examination in that discipline

This course is EPA-Approved under Section 206 of the Toxic Substance Control Act (TSCA)

Course Date

11/12/2018 - 11/15/2018

Exam Date

11/15/2018

No. Hours

32

Certificate No

CO111518-04AWI

Expires

11/15/2019

This course meets the

AQCC Reg. #8 Part B

requirements of

Training Director



Invalid without raised seal

Midtown Occupational Health Services 2420 W. 26th Ave. Ste. 200-D Denver, CO 80211

Phone: (303) 831-9393

Fax: (303) 831-6335

OSHA Asbestos Certification

Applicants	Name Mina Blanco
The above 1926,1101	individual was seen by me on in accordance to 29 CFR (Asbestos Certification) and 29 CFR 1910.134 (Respirator Certification). The following
was prefor	med:
4.20	
1,	Completion and review of the standardized medical questionnaire and work history with special emphasis directed to the pulmonary, cardiovascular, and gastrointestinal systems per Appendix D in 1926.1101
2.	Reviewed the employer's description of this individual's duties as they relate to asbestos exposure, the anticipated exposure level, and the personal protective and respiratory equipment to be utilized by this individual.
	1 1 - I - reminetions if available
3.	Review of information from previous medical examinations, if available.
	d de le condinue culture de la condinue cultu
4.	A physical examination with emphasis upon the pulmonary, cardiovascular, and gastrointestinal systems, including a pulmonary function test of forced vital
5.	Determined that a chest roentgenogram was was not required as part of this examination. (note: according to CFR 1926.1101 (M)(2)(ii)(C) it is at the discretion of the physician whether or not a chest X-ray is required)
6.	Reviewed OSHA's Medical Evaluation Questionnaire in Appendix C Part A Section 2 in accordance with 29CFR 1910.134 and have determined that this individual may in may not use a respiratory device while performing his/her required duties.
7.	The employee has been instructed to report any difficulties in using the respirators or any change of physical status to their supervisor or physician.
8	In accordance with OSHA requirements, I have fully explained the results of the medical examination and laboratory tests to the above named patient.
9.	In accordance with OSHA I have informed this individual of the health risks involved with smoking, of the synergistic relationship between cigarette smoking and asbestos exposure in producing lung cancer, and that cessation of smoking will reduce the risk of lung cancer.

Midtown Occupational Health Services 2420 W. 26th Ave. Ste. 200-D Denver, CO 80211 Fax: (303) 831-6335

Phone: (303) 831-9393

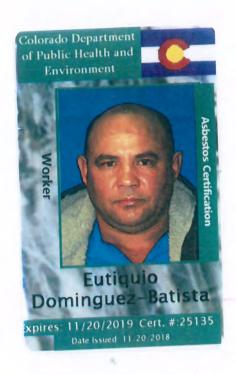
OSHA Asbestos Certification

There is a detected med- ee comments below for limit		which places t	his employee at an in	creased risk.
Comments/ Limitations	CXZC	- BREA	of frailty	pen on
1				
Examining Provider	Colile	92	Date	-19/18
, ne			Lawrence Cedillo D.C Midtown Occupation Health Services, P.C. 2490 W. 26th Ave., Blo Denver, CO 80211 303-831-9393	nal



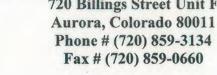
Respirator Fit Test

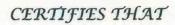
I, <u>Irina</u> <u>Planco</u> , acknowledge that I have been fit tested and trained for the proper use and
care of my respirator. I have read and understand JKS's written respiratory program manual.
Date of Fit Test: 1/26/2013 Fit Test Conductor: Juben Daningo
Respirator Information
Manufacturer: North
2. Model: 7700M
3. Size (Circle one): SMALL MEDIUM LARGE
4. Approval Number: TC-84A-0592
Irritant smoke used (Circle one)? YES NO
Please initial the following as each test is completed:
Breathe normally through the respirator
Breathe deeply through the respirator. Be certain that your breaths are deep and regular
breathe deeply through the respirator, be certain that your breaths are deep and regular
Turn your head from one side to the other to the fullest extent about every second without bumping the respirator on your shoulders. Ensure that your movement is complete. Inhale on each side.
your shoulders. Ensure that your movement is complete. Inhale on each side.
Nod your head up and down to the fullest extent about every second without bumping the respirator on your chest.
Ensure that your movement is complete and can be completed quickly. Inhale when you are facing up.
Do several jumping jacks to ensure that the respirator does not come loose from your face.
Move your mouth to its fullest extent; for example, yawn, move your jaw around, etc. Ensure that you can move your
mouth as necessary without compromising the fit of the respirator.
Read the Rainbow Passage
When the sunlight strikes raindrops in the air, they act like a prism and form a rainbow. A rainbow is a division of white
light into many beautiful colors. These take the shape of a long round arch with its path high above and its two ends
apparently beyond the horizon. There is, according to legend, a boiling pot of gold at one end. People look, but no one
ever finds it. When a man looks for something beyond his reach his friends say he is looking for the pot of gold at the end of the rainbow.
Employee Signature: 126-2018
Employee Signature: 17240000 Date: 11-26-2016
Fit Test Conductor Signature: (1/26/W/3)



INTERNATIONAL

Environmental and Safety Training L.LC. 720 Billings Street Unit F





EUTIQUIO DOMINGUEZ BATISTA

Has successfully completed

The **EPA**– APPROVED **AHERA** ASBESTOS COURSE for **WORKER**And passed the requirements examination in that discipline

This course is EPA-Approved under Section 206 of the Toxic Substance Control Act (TSCA)

Addition to the

Course Date

11/12/2018 - 11/15/2018

Exam Date

11/15/2018

No. Hours

32

Certificate No

CO111518-03AWI

Expires

11/15/2019

NATIO NAMES

Invalid without raised seal

Huseroul

Training Director

This course meets the

AQCC Reg. #8 Part B

requirements of

Midtown Occupational Health Services 2420 W. 26th Ave. Ste. 200-D Denver, CO 80211 Phone: (303) 831-9393 Fax: (303) 831-6335 OSHA Asbestos Certification

Amplicants	Name Enfiguero Dominguez	*
Applicants	Wallo Car Grand	an GER
The above	individual was seen by me on	rdance to 29 CFR
1926.1101	(Asbestos Certification) and 29CFR1910.134 (Respira	itor Certification). The toffowing
was prefor	med:	
	Completion and review of the standardized	medical questionnaire and work
1.	history with special emphasis directed to the pulmor	pary cardiovascular and
	gastrointestinal systems per Appendix D in 1926.11	01
		1 1
0	Reviewed the employer's description of this	individual's duties as they relate
2.	to ashestos evnosure the anticipated exposure levels	and the personal protective and
	respiratory equipment to be utilized by this individu	al.
	- 74	7714
3.	Review of information from previous medi	cal examinations, if available.
	8 1.1	
4.	A physical examination with emphasis upo	function test of forced vital
	and gastrointestinal systems, including a pulmonary	e second (FEV-1).
	capacity (FVC) and forced expiratory volume at on	
2	Determined that a chest roentgenogram was	was not required as part of
5.,	this examination (note: according to CFR 1920.11))1 (IVI)(Z)(II)(C) It IS at the
	discretion of the physician whether or not a chest	K-ray is required)
6.	Reviewed, OSHA's Medical Evaluation Que	estionnaire in Appendix C Part A
	2 : 2: 4 and with 20CFR 1910 134 and	have determined man tills
	individual may may not use a respiratory dev	rice will personning institut
	required duties.	NOV 1 9 2018
	The employee has been instructed to report	
7.	respirators or any change of physical status to their	supervisor or physician.
(
0	In accordance with OSHA requirements, I ha	ve fully explained the results of
0.	the medical examination and laboratory tests to the	above named patient.
1.0		
9.	In accordance with OSHA I have informed the	is individual of the heatth fisks
	involved with smoking, of the synergistic relationship	at cessation of smoking will
	asbestos exposure in producing lung cancer, and the	at cossition of sinothing
	reduce the risk of lung cancer.	

Midtown Occupational Health Services 2420 W. 26th Ave. Ste. 200-D Denver, CO 80211 Phone: (303) 831-9393 Fax: (303) 831-6335

OSHA Asbestos Certification

There is no detected medical condition which woul	d place this employee at an increased
There is no detected medical condition which we are risk of material health impairment from exposure to asbest imitations on the employee concerning the use of persons	al protective equipment or respirator.
There is a detected medical condition(s) which place	
See comments below for limitations:	
Comments/Limitations CXRc B- Re	end - Kegults pending
	Date
Examining Provider	Dane
LAWRENCE CO	Lawrence Cedillo D.O.
	Health Services BC
	Denver, CO 80211
	303-831-9393
	FAXED
	FAXED NOV 1 9 2018

JKS INDUSTRIES/

Respirator Fit Test

Police in Comingens
I, Coliquio Comingera, acknowledge that I have been fit tested and trained for the proper use and care of my respirator. I have read and understand JKS's written respiratory program manual.
and and the read and understand six s written respiratory program manual.
Date of Fit Test: 11/26/2018 Fit Test Conductor: Fit Test Conductor:
Respirator Information
1. Manufacturer: North
2. Model: 7700M
3. Size (Circle one): SMALL MEDIUM LARGE
4. Approval Number: TC-84A-0592
Irritant smoke used (Circle one)? YES NO
Please initial the following as each test is completed:
Breathe normally through the respirator
2 Section normally direction the respirator
Breathe deeply through the respirator. Be certain that your breaths are deep and regular
Turn your head from one side to the other to the fullest extent about every second without bumping the respirator on your shoulders. Ensure that your movement is complete. Inhale on each side.
Nod your head up and down to the fullest extent about every second without bumping the respirator on your chest. Ensure that your movement is complete and can be completed quickly. Inhale when you are facing up.
Do several jumping jacks to ensure that the respirator does not come loose from your face.
Move your mouth to its fullest extent; for example, yawn, move your jaw around, etc. Ensure that you can move your mouth as necessary without compromising the fit of the respirator.
Read the Rainbow Passage
When the sunlight strikes raindrops in the air, they act like a prism and form a rainbow. A rainbow is a division of white light into many beautiful colors. These take the shape of a long round arch with its path high above and its two ends apparently beyond the horizon. There is, according to legend, a boiling pot of gold at one end. People look, but no one ever finds it. When a man looks for something beyond his reach his friends say he is looking for the pot of gold at the end of the rainbow.
Employee Signature: Date: 1/26/2018 Fit Test Conductor Signature: Date: 1/26/2018
Fit Test Conductor Signature: Date: 1/26/208



INTERNATIONAL



Environmental and Safety Training L.LC.
720 Billings Street Unit F
Aurora, Colorado 80011
Phone # (720) 859-3134
Fax # (720) 859-0660

CERTIFIES THAT

RAMIRA DEL VALLE DURAN MARQUINA

Has successfully completed

The **EPA**– APPROVED **AHERA** ASBESTOS COURSE for **WORKER**And passed the requirements examination in that discipline

This course is **EPA-Approved** under Section 206 of the **Toxic Substance Control Act (TSCA)**

nichory anders to

Course Date

10/15/2018 - 10/18/2018

Exam Date

10/18/2018

No. Hours

32

Certificate No

CO101818-07AWI

Expires

10/18/2019

Training Director

This course meets the

AQCC Reg. #8 Part B

requirements of

Invalid without raised seal

Midtown Occupational Health Services 2420 W. 26th Ave. Ste. 200-D Denver, CO 80211 Phone: (303) 831-9393 Fax: (303) 831-6335

OSHA Asbestos Certification

Applican	ts Name Ramira Duran
The abov 1926.110 was prefe	re individual was seen by me on 10-19-18 in accordance to 29 CFR in accordance to 29 CFR in accordance to 29 CFR. The following ormed:
. 1.	Completion and review of the standardized medical questionnaire and work history with special emphasis directed to the pulmonary, cardiovascular, and gastrointestinal systems per Appendix D in 1926.1101
2.	Reviewed the employer's description of this individual's duties as they relate to asbestos exposure, the anticipated exposure level, and the personal protective and respiratory equipment to be utilized by this individual.
3.	Review of information from previous medical examinations, if available.
4.	A physical examination with emphasis upon the pulmonary, cardiovascular, and gastrointestinal systems, including a pulmonary function test of forced vital capacity (FVC) and forced expiratory volume at one second (FEV-1).
5.	Determined that a chest roentgenogram was was not required as part of this examination. (note: according to CFR 1926.1101 (M)(2)(ii)(C) it is at the discretion of the physician whether or not a chest X-ray is required)
6.	Reviewed OSHA's Medical Evaluation Questionnaire in Appendix C Part A Section 2 in accordance with 29CFR 1910.134 and have determined that this individual may may not use a respiratory device while performing his/her required duties.
7.	The employee has been instructed to report any difficulties in using the respirators or any change of physical status to their supervisor or physician.
8.	In accordance with OSHA requirements, I have fully explained the results of the medical examination and laboratory tests to the above named patient.
9.	In accordance with OSHA I have informed this individual of the health risks involved with smoking, of the synergistic relationship between cigarette smoking and asbestos exposure in producing lung cancer, and that cessation of smoking will reduce the risk of lung cancer.

Midtown Occupational Health Services 2420 W. 26th Ave. Ste. 200-D Denver, CO 80211 Phone: (303) 831-9393 Fax: (303) 831-6335 OSHA Asbestos Certification

OSITITIES	socsios Certification
risk of material health impairment from ex	on which would place this employee at an increased posure to asbestos, and there are no recommended e use of personal protective equipment or respirator.
There is a detected medical condition	and a subject of the
There is a detected medical condition	n(s) which places this employee at an increased risk.
See comments below for limitations:	
	1.
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Comments/ Limitations	
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The state of the s	
	ital in dies
1	10/11/18
Examining Provider	Date
	1
	Kirk Holmboe, D.O.
	Midtown Occupational
,	Health Services, P.C. 2490 W. 26th Ave., Bldg. A, Suite 300
the safe of	Denver, CO 80211
pu's t	303-831-9393
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Fit Test Conductor Signature:

JKS INDUSTRIES

Respirator Fit Test
I, Kausa Duran, acknowledge that I have been fit tested and trained for the proper use and
care of my respirator. I have read and understand JKS's written respiratory program manual.
Date of Fit Test: 10/24/2018 Fit Test Conductor:
Respirator Information
1. Manufacturer: North
2. Model: 7700M
3. Size (Circle one): SMALL MEDIUM LARGE 4. Approval Number: TC-84A-0592
Irritant smoke used (Circle one)? YES NO
Please initial the following as each test is completed:
Breathe normally through the respirator
Breathe deeply through the respirator. Be certain that your breaths are deep and regular
Turn your head from one side to the other to the fullest extent about every second without bumping the respirator of your shoulders. Ensure that your movement is complete. Inhale on each side.
Nod your head up and down to the fullest extent about every second without bumping the respirator on your chest. Ensure that your movement is complete and can be completed quickly. Inhale when you are facing up.
Do several jumping jacks to ensure that the respirator does not come loose from your face.
Move your mouth to its fullest extent; for example, yawn, move your jaw around, etc. Ensure that you can move your mouth as necessary without compromising the fit of the respirator.
Read the Rainbow Passage
When the sunlight strikes raindrops in the air, they act like a prism and form a rainbow. A rainbow is a division of whit light into many beautiful colors. These take the shape of a long round arch with its path high above and its two ends apparently beyond the horizon. There is, according to legend, a boiling pot of gold at one end. People look, but no on ever finds it. When a man looks for something beyond his reach his friends say he is looking for the pot of gold at the end of the rainbow.
Employee Signature: Date: 10/24/18

Colorado Department of Public Health and Environment



Worker



Ricardo

xpires: 10/23/2019 Cert. #:25051

Date Issued: 10/23/2018

INTERNATIONAL

Environmental and Safety Training L.LC.



720 Billings Street Unit F Aurora, Colorado 80011 Phone # (720) 859-3134 Fax # (720) 859-0660

CERTIFIES THAT

RICARDO FUERTE MESA

Has successfully completed
The **EPA**- APPROVED **AHERA** ASBESTOS COURSE for **WORKER**

And passed the requirements examination in that discipline

This course is **EPA-Approved** under Section 206 of the **Toxic Substance Control Act (TSCA)**

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Course Date

10/15/2018 - 10/18/2018

Exam Date

10/18/2018

No. Hours

32

Certificate No

CO101818-04AWI

Expires

10/18/2019

This course meets the requirements of AQCC Reg. #8 Part B



Invalid without raised seal

Howard

Training Director

Colorado Occupational Medical Partners 1390 S. Potomac St. Suite 136

1390 S. Potomac St. Suite 136 Aurora, Co. 80012 Ph# 303.214.0000 Fax# 303.214.0326

PHYSICIAN'S WRITTEN OPINION - ASBESTOS

Applican	it's Name: Licardo Fix	erte
Address:		
The abov	ve named was seen by me on 10/22	and in accordance with all applicable portions of custry, 29 CFR 1926.1101, with which I am familiar, I have indicated by
1	Reviewed with this individual, his/her work History, directed towards the pul	completed OSHA standardized Medical Questionnaire and monary, cardiovascular, and gastrointestinal, system; and
2. <u>V</u>	anticipated exposure level, the persona	f this individual's duties as they relate to asbestos exposure, the l protective and respiratory equipment to be utilized by the information resulting from previous examinations; and
3.	Conducted a physical examination of the and gastrointestinal systems, including forced expiratory volume at one second	his individual with emphasis on the pulmonary, cardiovascular, a pulmonary function test of forced vital capacity (FVC) and d (FEV-1) and
4.	Determined that a chest roentgenogram required, the x-ray was taken and read	n was was not required as a part of this examination. (If in accordance with Appendix E of the Asbestos Standard); and
5.	Determined that this individual may required employment services; and	may not use a respiratory device while performing his/her
6.	Informed this individual that I have this individual at an increased risk of n	have not detected a medical condition which would place naterial health impairment from exposure to asbestos; and
7.	Informed this individual of the results from this individual's exposure to asbe	of my examination and of any medical condition that may result estos; and
8.	Informed this individual of the health of between cigarette smoking and asbesto smoking will reduce the risk of lung co	risks involved in smoking, of the synergistic relationship os exposure in producing lung cancer, and that cessation of ancer.
Comme	ents and/or Limitations (if any):	
C	harles Wanzel DO	and
_	cian's Printed Name)	(Physician's Signature)
	Colorado Occupational Medical Partners 1390 S. Potomac St. Sulte 136 Aurora, CO 80012 P:303-214-0000 F:303-214-0335	
(Physic	cian's Phone No.)	(Physician's Address)



Respirator Fit Test

		ive been fit tested and trained for the proper use and
care of my respirator. I have read and u		
Date of Fit Test: 10/24/18	Fit Te	est Conductor: Buber Doming
Respirator Information		
1. Manufacturer: North		
2. Model: 7700M		
3. Size (Circle one): SMALL	MEDIUM	LARGE
4. Approval Number: TC-84A-0592		
Irritant smoke used (Circle one)?	YES	NO
Please initial the following as each test i	s completed:	
Breathe normally through the respir	ator	
Breathe deeply through the respirate	or. Be certain that	your breaths are deep and regular
Turn your head from one side to the your shoulders. Ensure that your mo		t extent about every second without bumping the respirator or e. Inhale on each side.
		t every second without bumping the respirator on your chest. mpleted quickly. Inhale when you are facing up.
Do several jumping jacks to ensure t	hat the respirator	does not come loose from your face.
Move your mouth to its fullest extended mouth as necessary without compro		wn, move your jaw around, etc. Ensure that you can move your e respirator.
Read the Rainbow Passage		
light into many beautiful colors. The apparently beyond the horizon. Then	se take the shape or re is, according to I	like a prism and form a rainbow. A rainbow is a division of white a long round arch with its path high above and its two ends egend, a boiling pot of gold at one end. People look, but no on his reach his friends say he is looking for the pot of gold at the
Employee Signature:		Date: 10/24/18
Fit Test Conductor Signature:	5	Date: 10/24/2018



INTERNATIONAL



Environmental and Safety Training L.LC. 720 Billings Street Unit F Aurora, Colorado 80011 Phone # (720) 859-3134 Fax # (720) 859-0660

CERTIFIES THAT

JEAN CARLOS LECCIA COA

Has successfully completed

The EPA- APPROVED AHERA ASBESTOS COURSE for WORKER

And passed the requirements examination in that discipline

This course is **EPA-Approved** under Section 206 of the **Toxic Substance Control Act (TSCA)**

Course Date

06/11/2018 - 06/14/2018

Exam Date

06/14/2018

No. Hours

32

Certificate No

CO061418-07AWI

Expires

06/14/2019

Flueros

Training Director

This course meets the

AQCC Reg. #8 Part B

requirements of

Invalid without raised seal

Midtown Occupational Health Services 2420 W. 26th Ave. Ste. 200-D Denver, CO 80211 Phone: (303) 831-9393 Fax: (303) 831-6335

OSHA Asbestos Certification

Applican	ts Name Joan Canos Leccia
The abov	ve individual was seen by me on 6-1878 in accordance to 29 CFR 01(Asbestos Certification) and 29 CFR 1910.134 (Respirator Certification). The following
1.	Completion and review of the standardized medical questionnaire and work history with special emphasis directed to the pulmonary, cardio ascular, and gastrointestinal systems per Appendix D in 1926.1101
2,	Reviewed the employer's description of this individual's duties as they relate to asbestos exposure, the anticipated exposure level, and the personal protective and respiratory equipment to be utilized by this individual.
3.	Review of information from previous medical examinations, if available.
. 4.	A physical examination with emphasis upon the pulmonary, cardiovascular, and gastrointestinal systems, including a pulmonary function test of forced vital capacity (FVC) and forced expiratory volume at one second (FEV-1).
5.	Determined that a chest-coentgenogram was was not required as part of this examination. (note-according to CFR 1926.1101 (M)(2)(ii)(C) it is at the discretion of the physician whether or not a chest X-ray is required)
6.	Reviewed OSEA's Medical Evaluation Questionnaire in Appendix C Part A Section 2 in accordance with 29CFR 1910.134 and have determined that this individual may 1 may not use a respiratory device while performing his/her required duties.
7.	The employee has been instructed to report any difficulties in using the respirators or any change of physical status to their supervisor or physician.
8:	In accordance with OSHA requirements, I have fully explained the results of the medical examination and laboratory tests to the above named patient.
9.	In accordance with OSHA I have informed this individual of the health risks involved with smoking, of the synergistic relationship between cigarette smoking and asbestos exposure in producing lung cancer, and that cessation of smoking will reduce the risk of lung cancer.

Midtown Occupational Health Services 2420 W. 26th Ave. Ste. 200-D Denver, CO 80211 Phone: (303) 831-9393 Fax: (303) 831-6335

OSHA Asbestos Certification

There is no detected medical condition which would place this employee at an increased risk of material health impairment from exposure to asbestos, and there are no recommended.

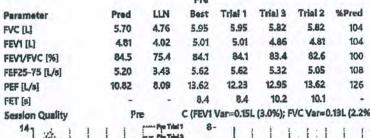
	1/4
Examining Provider 678	Date
J. Raschbacher, M.D.	1.

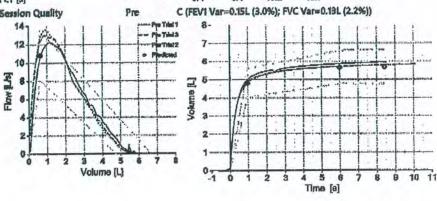
J. Raschbacher, M.D. Midtown Occupational Health Services, P.C. 2490 W. 26th Ave., Bldg. A, Suite 300 Denver, CO 80211 303-831-9393

Midtown Occupational Health Services

2490 W 26th Avenue Building A, Suite 300 Denver, CO 80211

ID: 1993 Age: 25 (5/12/1993) Leccia Coa, Jean Carlos Male Height 71 in Asthma No Gender Hispanic Weight 274 lb BMI 38.2 COPD Ethnicity No Smoker Your FEV1 / Predicted: 104% FVC (ex only) Value Selection Best Value 6/18/2018 11:44:10 AM Interpretation Test Date BTPS (IN/EX) 1.11/1.02 Hankinson (NHANES III), 1999 Post Time Predicted Pre







Respirator Fit Test

1, Jean Carlos lac	cia Coa , acknowled	ge that I have been fit test	ed and trained for the pr	oper use and
THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.	tor. I have read and underst	and JKS's written respirato	ory program manual.	
Date of Fit Test:	6/21/2018	Fit Test Conductor:_	Ruber Dorp	
Respirator Inform	ation			
 Manufactu 	urer: North			
2. Model: 77				
3. Size (Circle		MEDIUM (LARGE		
4. Approval I	Number: TC-84A-0592	$\overline{}$		
Irritant/smoke use	ed (Circle one)?	ES NO		
Please initial the	following as each test is com	pleted:		
Breathe nor	mally through the respirator			
Breathe dee	eply through the respirator. Be	certain that your breaths are	e deep and regular	
1	ead from one side to the other ers. Ensure that your movemer			ing the respirator on
	ead up and down to the fullest your movement is complete ar			
Do several j	umping jacks to ensure that the	e respirator does not come lo	oose from your face.	
1 / ///	mouth to its fullest extent; for ecessary without compromising		aw around, etc. Ensure that	: you can move your
	ainbow Passage			
light into mapparently	sunlight strikes raindrops in the lany beautiful colors. These take beyond the horizon. There is, at. When a man looks for somethrainbow.	e the shape of a long round a according to legend, a boiling	arch with its path high abov pot of gold at one end. Pe	ve and its two ends ople look, but no one
Employee Signat	ure: 1000 000 m		Date:	
			- 1/2/201	9
Fit Test Conduct	or Signature:		Date: 6 21 206	

Colorado Department of Public Health and Environment

Worker



sbestos Certification

Tania Padron

xpires: 10/23/2019 Cert. #:25052

Date Issued: 10/23/2018

INTERNATIONAL

Environmental and Safety Training L.LC.



720 Billings Street Unit F Aurora, Colorado 80011 Phone # (720) 859-3134 Fax # (720) 859-0660

CERTIFIES THAT

TANIA PADRON

Has successfully completed

The **EPA**– APPROVED **AHERA** ASBESTOS COURSE for **WORKER**And passed the requirements examination in that discipline

This course is EPA-Approved under Section 206 of the Toxic Substance Control Act (TSCA)

Course Date

10/15/2018 - 10/18/2018

Exam Date

10/18/2018

No. Hours

32

Certificate No

CO101818-06AWI

Expires

10/18/2019

T/ June month!

Training Director

This course meets the

requirements of AQCC Reg. #8 Part B



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Colorado Occupational Medical Partners 1390 S. Potomac St. Suite 136

1390 S. Potomac St. Suite 136 Aurora, Co. 80012 Ph# 303.214.0000 Fax# 303.214.0326

PHYSICIAN'S WRITTEN OPINION - ASBESTOS

Applicant's Name: Tania Padrov	\wedge
Address:	
The above named was seen by me on	2/18, and in accordance with all applicable portions of dustry, 29 CFR 1926.1101, with which I am familiar, I have indicated by
	completed OSHA standardized Medical Questionnaire and almonary, cardiovascular, and gastrointestinal, system; and
anticipated exposure level, the persona	of this individual's duties as they relate to asbestos exposure, the all protective and respiratory equipment to be utilized by the l information resulting from previous examinations; and
	this individual with emphasis on the pulmonary, cardiovascular, g a pulmonary function test of forced vital capacity (FVC) and ad (FEV-1) and
4. Determined that a chest roentgenogram required, the x-ray was taken and read	m was was not required as a part of this examination. (If in accordance with Appendix E of the Asbestos Standard); and
5. Determined that this individual may required employment services; and	may not use a respiratory device while performing his/her
	have not detected a medical condition which would place material health impairment from exposure to asbestos; and
7. Informed this individual of the results from this individual's exposure to asbe	of my examination and of any medical condition that may result estos; and
	risks involved in smoking, of the synergistic relationship os exposure in producing lung cancer, and that cessation of ancer.
Comments and/or Limitations (if any):	
(Physician's Printed Name)	(Physician's Signature)
Colorado Occupational Medical Partners 1390 S. Petomac St. Suite 136 Aurora, CO 80012 P:303-214-0000 F:303-214-0335	
(Physician's Phone No.)	(Physician's Address)



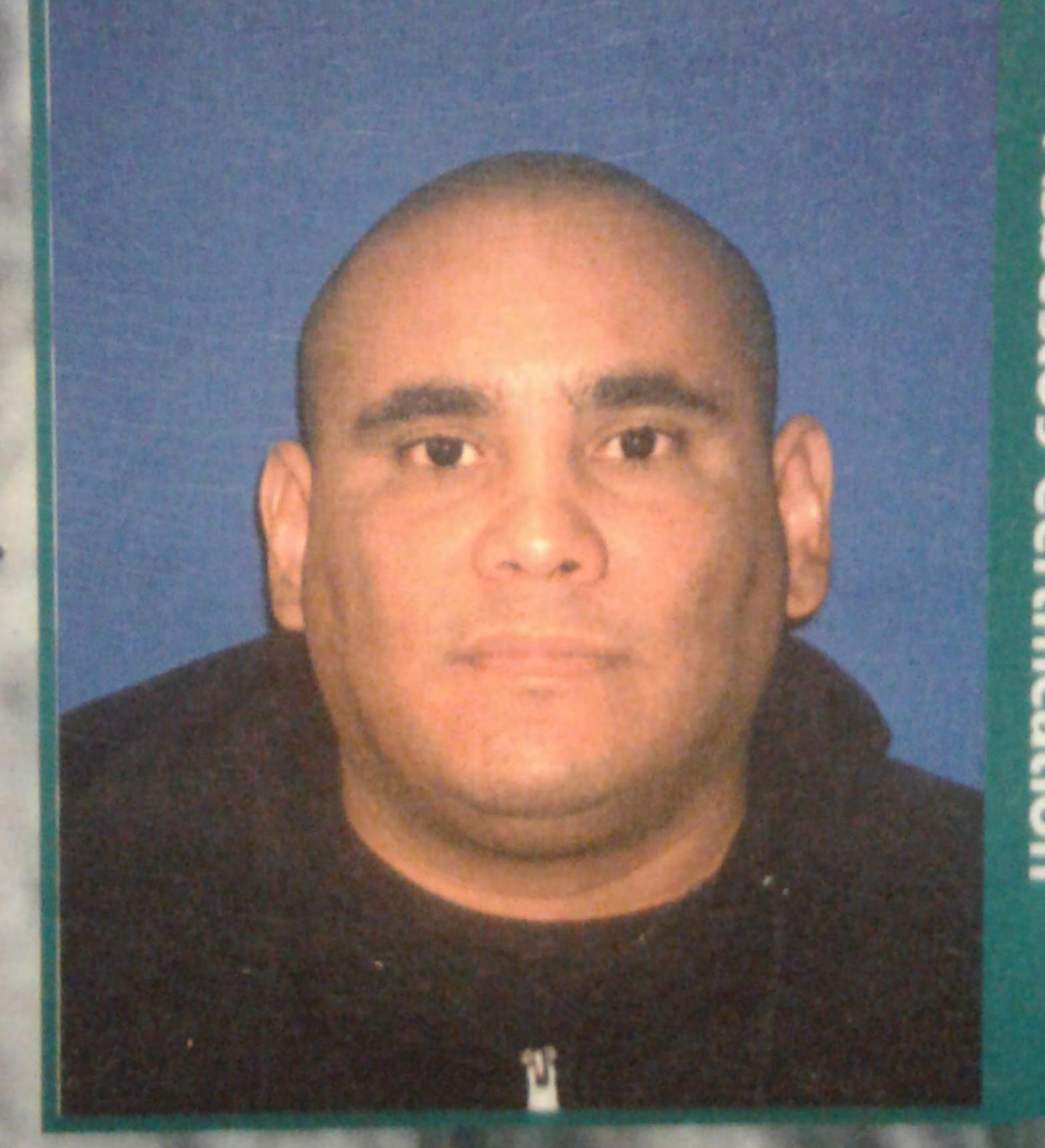
Respirator Fit Test

I, Tania padrom, acknow care of my respirator. I have read and und	erstand JKS's w	ritten respirate	ory progran	n manual.	
Date of Fit Test: 10/24/18				4	
Respirator Information					
Manufacturer: North					
2. Model: 7700M					
 Size (Circle one): SMALL Approval Number: TC-84A-0592 	(MEDIUM)	LARGE			
Irritant smoke used (Circle one)?	YES	NO			
Please initial the following as each test is o	completed:				
Breathe normally through the respirato	or				
Breathe deeply through the respirator.	Be certain that y	our breaths are	deep and re	gular	
Turn your head from one side to the ot your shoulders. Ensure that your move				without bumping	g the respirator o
Nod your head up and down to the full Ensure that your movement is complet					
Do several jumping jacks to ensure that	the respirator d	oes not come lo	oose from yo	ur face.	
Move your mouth to its fullest extent; mouth as necessary without compromi			w around, e	tc. Ensure that yo	ou can move your
Read the Rainbow Passage					
When the sunlight strikes raindrops in a light into many beautiful colors. These apparently beyond the horizon. There is ever finds it. When a man looks for son end of the rainbow.	take the shape o s, according to le	f a long round a gend, a boiling	rch with its p pot of gold a	oath high above a t one end. Peopl	and its two ends e look, but no on
Employee Signature: そんし.			Date:	10/24/18	
Fit Test Conductor Signature:	A		Date:	10/24/2018	3

Colorado Department of Public Health and Environment



Worker



Alfredo E Rincon B

xpires: 10/23/2019 Cert. #:25054

Date Issued: 10/23/2018

INTERNATIONAL

Environmental and Safety Training L.LC.



720 Billings Street Unit F Aurora, Colorado 80011 Phone # (720) 859-3134 Fax # (720) 859-0660

CERTIFIES THAT

ALFREDO E. RINCON B.

Has successfully completed

The EPA-APPROVED AHERA ASBESTOS COURSE for WORKER

And passed the requirements examination in that discipline

This course is **EPA-Approved** under Section 206 of the **Toxic Substance Control Act (TSCA)**

Test of the second

er . Man he er

Course Date

10/15/2018 - 10/18/2018

Exam Date

10/18/2018

No. Hours

32

Certificate No-

CO101818-01AWI

Expires 10/18/2019

AQCC Reg. #8 Part B

This course meets the

requirements of



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Training Director

Midtown Occupational Health Services 2420 W. 26th Ave. Ste. 200-D Denver, CO 80211 Phone: (303) 831-9393 Fax: (303) 831-6335

OSHA Asbestos Certification Applicants Name The above individual was seen by me on 10: 4 .1 8 in accordance to 29 CFR. 1926.1101(Asbestos Certification) and 29CFR1910.134 (Respirator Certification). The following was preformed: Completion and review of the standardized medical question and work 1. history with special emphasis directed to the pulmonary, cardio vascular, and gastrointestinal systems per Appendix D in 1926.1101 Reviewed the employer's description of this individual's duties as they relate 2. to asbestos exposure, the anticipated exposure level and the personal protective and respiratory equipment to be utilized by this individual. Review of information from previous medical examinations, if available. 3. A physical examination with emphasis upon the pulmonary, cardiovascular, 4. and gastrointestinal systems, including a pulmonary function test of forced vital capacity (FVC) and forced expiratory volume at one second (FEV-1). Determined that a chest roentgenogram was was not required as part of 5. this examination. (note-according to CFR 1926.1101 (M)(2)(ii)(C) it is at the discretion of the physician whether or not a chest X-ray is required) B-reade Reviewed SHA's Medical Evaluation Questionnaire in Appendix C Part A 6. Section 2 in accordance with 29CFR 1910.134 and have determined that this individual may may not use a respiratory device while performing his/her required duties. The employee has been instructed to report any difficulties in using the 7. spirators or any change of physical status to their supervisor or physician. In accordance with OSHA requirements, I have fully explained the results of the medical examination and laboratory tests to the above named patient. In accordance with OSHA I have informed this individual of the health risks involved with smoking, of the synergistic relationship between cigarette smoking and asbestos exposure in producing lung cancer, and that cessation of smoking will reduce the risk of lung cancer.

Midtown Occupational Health Services 2420 W. 26th Ave. Ste. 200-D Denver, CO 80211 Phone: (303) 831-9393 Fax: (303) 831-6335

OSHA Asbestos Certification

There is no detected medical condition which would place this employee at an increased risk of material health impairment from exposure to asbestos, and there are no recommended limitations on the employee concerning the use of personal protective equipment or respirator.

There is a detected medical condition(s) which places this employee at an increased risk. See comments below for limitations:

Comments/Limitations

Examining Provider

Lon Noel, M.D. Midtown Occupational Health Services, P.C. 2490 W. 26th Ave., Bldg. A, Sulte 300 Denver, CO 80211 303-831-9393

Respirator Fit Test

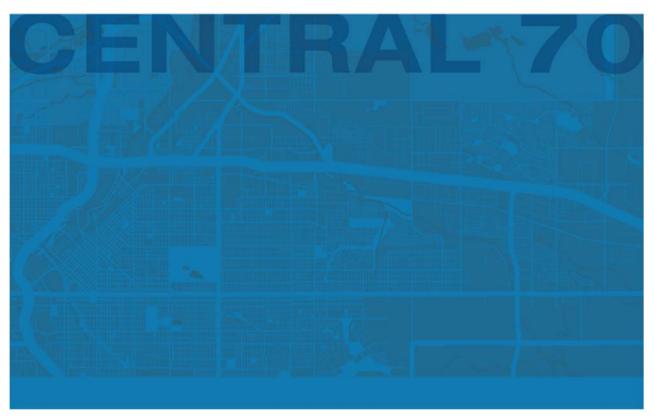
1, WIFE 600 lun Con, acknowledge that I ha	
care of my respirator. I have read and understand JKS's v	ritten respiratory program manual.
Date of Fit Test: 10/24/18 Fit Te	est Conductor: Ruber Oming
Respirator Information	
Manufacturer: North	
2. Model: 7700M	
3. Size (Circle one): SMALL MEDIUM	LARGE
4. Approval Number: TC-84A-0592	
Irritant smoke used (Circle one)?	NO
Please initial the following as each test is completed:	
Breathe normally through the respirator	
Breathe deeply through the respirator. Be certain that	your breaths are deep and regular
	t extent about every second without bumping the respirator or
your shoulders. Ensure that your movement is complet	e. Inhale on each side.
Nod your head up and down to the fullest extent about	every second without bumping the respirator on your chest.
Ensure that your movement is complete and can be con	
Do several jumping jacks to ensure that the respirator of	loes not come loose from your face.
Move your mouth to its fullest extent; for example, yav	vn, move your jaw around, etc. Ensure that you can move your
mouth as necessary without compromising the fit of th	
$\overline{}$	
√ Read the Rainbow Passage	
When the sunlight strikes raindrops in the air, they act	like a prism and form a rainbow. A rainbow is a division of whit
	of a long round arch with its path high above and its two ends
apparently beyond the horizon. There is, according to le	egend, a boiling pot of gold at one end. People look, but no one
	his reach his friends say he is looking for the pot of gold at the
end of the rainbow.	
Employee Signature:	Date: 10/21/10
Limpioyee signature.	Date: /0/24//8
Fit Test Conductor Signature:	Date: 10/24/2013
The rest conductor signature.	Date



6. Project Design



6a. SSAR



September 21, 2018



Structure Survey Assessment Report AP-73

4600 Clayton Street

Denver, CO 80216

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	2.3	Survey Of Suspected RBMS	
3	Fin	dingsdings	
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LIST OF REPORT ACRONYMS/ABBREVIATIONS

ACMs Asbestos Containing Materials

AHERA Asbestos Hazard Emergency Response Act

APEC All-Phase Environmental Consultants

AMS Air Monitoring Specialist

CABI Colorado Asbestos Building InspectorCDOT Colorado Department of Transportation

CDPHE Colorado Department of Public Health and Environment

CFCs Chlorofluorocarbons

CFR Code of Federal Regulations **EP** Environmental Professional

EPA Environmental Protection Agency

FAA Flame Atomic Absorption

LBP Lead Based Paint
LCP Lead Containing Paint
mg/L Milligrams per Liter

NESHAP National Emissions Standards for Hazardous Air Pollutants

NVLAP National Voluntary Laboratory Accreditation Program

OSHA Occupational Safety and Health Administration

PCBs Polychlorinated Biphenyls

PD Project Designer

PEL Permissible Exposure Limits
PLM Polarized Light Microscopy
PPE Personal Protective Equipment

ppm Parts Per Million

RACM Regulated Asbestos Containing Material

RBM Regulated Building Materials

RCRA Resource Conservation and Recovery Act

RHMs Recognized Hazardous Materials
SSAP Structure Survey Assessment Plan

TC Toxicity Characteristic

TCLP Toxicity Characteristic Leaching Procedure
USEPA U.S. Environmental Protection Agency

UWR EPA Universal Waste Rule

LIST OF SAMPLING ACRONYMS/ABBREVIATIONS

BM Brick/Mortar
CB Cove Base
CC Concrete

CER Ceramic Block

CM Ceramic Tile/Mortar

CMU Concrete Masonry Unit/Mortar

CP CarpetCT Ceiling Tile

D Drywall (no surfacing)DJ Drywall/Joint Compound

F Flooring
FT Floor Tile
IN Insulation
L Linoleum
M Mastic

MF Multiple layered Flooring

MT Mortar

PC Popcorn Ceiling

PL Plaster

PM Panel/Mastic
R Roofing
Page Page Floating

RF Roof Flashing

S Siding Stucco

T Texture (no substrate)TC Textured Composite Board

TD Textured Drywall

TSI Thermal System Insulation

VB Vapor Barrier

VP Vent Paste (heating/cooling systems)VW Vent Wrap (heating/cooling systems)

WC Window Caulk

WD Wallpapered Drywall

Tables

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Table 2	Asbestos Containing Samples
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Table 5	Summary of Regulated Building Materials

Figures

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Appendices

Appendix A	Asbestos and Lead Inspector (s) Certifications
Appendix B	Positive Asbestos Sample Material Photographs
Appendix C	Laboratory Results & Chain of Custody – Asbestos
Appendix D	Laboratory Results & Chain of Custody – Lead & TCLP

APEC Project # 18-3066 - 007

Prepared for

Kiewit Meridiam Partners

Prepared by

Logan Greenfield, CABI & AMS #20715

VP of Field Services

Reviewed by

Brandice Eslinger, EP, CABI & PD # 5494

President

1 Introduction

All-Phase Environmental Consultants, Inc. (APEC) was contracted to complete an environmental building survey for suspect asbestos-containing materials (ACMs), lead-based paint (LBP), and regulated building materials (RBM) at 4600 Clayton Street, Denver, CO 80216. This survey will identify the materials that will need to be abated or removed prior to the future demolition activities.

Table 1 Project Details

Client Name:	Kiewit Meridiam Partners
Site Location:	4600 Clayton Street, Denver, CO 80216
Building Type	One Building – Single family residence with Basement and Garage
Building Size	Building is approximately 725 square feet + Basement
Construction Date:	1942 – Based on the City and County of Denver Assessor's Records
Building Uses:	Single Family Residence
Types of Materials to be Disturbed/Description of Proposed Disturbances:	Client intends to demolish the structure. All building materials will be impacted.

This Structure Survey Assessment was conducted as part of the Central 70 Project located in Denver, Colorado. This assessment was conducted in accordance with the Structure Survey Assessment Plan (SSAP), dated March 27, 2018. The SSAP, as defined in Section 23.13.2 of Schedule 17 (Environmental Requirements) of the final Central 70 Project Agreement between the Colorado Department of Transportation (CDOT) and Kiewit Meridiam Partners, identifies the procedures for completing building and structure surveys for ACMs, LBP and universal wastes or other Recognized Hazardous Materials (RHMs), as defined by the Resource Conservation and Recovery Act (RCRA); universal waste, as defined by the U.S. Environmental Protection Agency (EPA) and 6 Code of Federal Regulations (CCR) Part 273 of the Colorado Hazardous Waste Regulations; chlorofluorocarbons (CFCs), as defined by the Clean Air Act; and polychlorinated biphenyls (PCBs), as defined by the Toxic Substances Control Act.

2 Site Survey Methodology

2.1 ASBESTOS SURVEY

On April 18, 2018 and August 2, 2018 APEC certified personnel Logan Greenfield conducted an asbestos survey for demolition at 4600 Clayton Street, Denver, CO 80216. The asbestos survey (inspection/sampling) was completed in accordance with the SSAP and follows guidelines established under the EPA's Asbestos Hazard and Response Act (AHERA) program and as required by USEPA regulation 40 Code of Federal Regulations (CFR) Part 61, National Emissions Standards for Hazardous Air Pollutants (NESHAP). Bulk sampling of suspected ACMs was performed in strict accordance with AHERA sampling procedures detailed in 40 CFR 763.86. These include but aren't limited to labeling each sample, recording each sample on a chain of custody, taking a photo of the sample and recording the location on a site diagram. Demolition work could disturb materials that contain asbestos and put unprotected workers at risk, violating asbestos regulations, which are enforced by the Occupational Safety and Health Administration (OSHA), the EPA, the Colorado Department of Public Health and Environment (CDPHE) and the Denver County Health Department. All samples were collected and submitted to EMSL Analytical, Inc. in Denver, CO per APEC chain of custody protocol. The laboratory is a member of the National Voluntary Laboratory Accreditation Program (NVLAP) and is qualified to perform the required analysis (Appendix A). The analysis conducted was the EPA Interim Method for the Determination of Asbestos in Bulk Samples, using standard Polarized Light Microscopy (PLM) and dispersion staining as established in 40 CFR Part 763.

This inspection report and methodology complies with the CDPHE Asbestos Sampling and Report Requirements Memorandum dated February 28, 2018.

2.2 LEAD-BASED PAINT SURVEY

On April 18, 2018, APEC certified personnel Rick Ralston conducted the LBP survey. The lead survey was conducted to evaluate the absence and/or presence of LBP or lead-containing paint (LCP) that will be impacted during future demolition activities. The survey consisted of reviewing and inspecting the interior, exterior and roof system of the structure for suspect LBP or LCP. The testing method was the use of a heat gun and/or scraping a portion of the paint to the substrate (material under the paint). Proper chain of custody procedures were followed and samples were sent to EMSL Analytical, Inc. in Cinnaminson, NJ, via Fed Ex. The samples were analyzed by total lead (percent by weight) via Flame Atomic Absorption (FAA) by EPA Method 7420. EMSL is accredited under the American Industrial Hygiene Association's Environmental Lead Proficiency Analytical Testing program. LBP, according to the EPA, is defined as paint that contains lead in concentrations greater than 1.0 milligrams per square centimeter (mg/cm2) as measured with an X-ray fluorescence (XRF) or 5,000 parts per million (ppm) when measured by weight, or 0.5 percent (%) by weight.

A total of 11 homogeneous paint color variations of suspect LBP areas were identified. One paint chip sample was collected from each suspect homogeneous area and submitted to the laboratory for analysis. Representative photographs of each known LBP/LCP were taken and are included in a photographic log (Appendix B), and the paint chip sample locations were recorded and are included in sample location drawing (Figures 3). Descriptions of the suspect homogeneous materials and a list of the collected samples can be viewed in the 'Findings' section.

Based on the analytical results for the 11 samples taken, a Toxicity Characteristic Leachate Procedure (TCLP) sample was analyzed by collecting a representative sample (approximately 105 grams) of combined suspect building materials. Most landfills require analytical results before building materials can be disposed. The sample results are located in Appendix D.

2.3 SURVEY OF SUSPECTED RBMS

On April 18, 2018, APEC personnel conducted the RBM inventory consisting of inspecting the interior, exterior and roof system. The inspection was conducted to visually identify and quantify any building materials, devices and equipment suspected of containing potentially regulated materials as they pertain to the EPA Universal Waste Rule (UWR) requirements (40 CFR, Part 273). APECs inventory review consisted of the following: potential mercury-containing thermostats/switches; fluorescent light tubes and compact fluorescent bulbs; items potentially containing polychlorinated biphenyls (PCBs) (generally ballasts found within the fluorescent light fixtures); tritium powered exit signs; smoke detectors potentially containing Americium-241; and Freon-containing refrigeration systems. The survey of suspected RBMs are for use by contractors conducting the removal of items from the property. Samples of suspect RBMs are not required for this type of survey, as all determinations are made by visual means.

Although not a "regulated material", items such as gas meters, electrical meters and electrical panels are listed with the RBM inventory. These materials will require removal and/or disconnection prior to demolition and until done so should be handled with care.

3 Findings

3.1 ASBESTOS SURVEY

A total of 31 bulk samples, including 1 duplicate sample, were collected from 9 suspect homogenous materials throughout the structure, and the results of the PLM analysis are presented in Table 2 and table 3. The following samples were positive for ACMs (i.e. present greater than 1%):

Regulated Asbestos Containing Materials (RACM)

- 4600CL-R3-4A and 4600CL-R3-4B Flooring/Floor tile bottom layer in rooms 3, 4, and 5
- 4600CL-R10-7A, 4600CL-R10-7B, and 4600C-R6-7C Duct wrap on furnace supply registers in rooms 3, 6, and 10

Point Counts

Point count analysis occurrs for samples with <1% of asbestos. The point count results are also presented in Table 2. The laboratory analytical report is included as Appendix C. The following samples were confirmed to be OSHA regulated, due to analyzing at/or below 1% of asbestos in point count analysis:

- 4600CL-R3-1A, 4600CL-R4-1B, 4600CL-R2-1C, 4600CL-R7-1D, 4600CL-R6-1E, 4600CL-R8-1F, and 4600CL-R5-1G Smooth textured plaster OSHA regulated
- 4600CL-R1-2A, 4600CL-R1-2B, and 4600CL-R1-2C Rough textured plaster OSHA regulated

Duplicate Samples

For quality assurance purposes, duplicate samples are taken approximately every 20th sample. Duplicate samples are listed as a duplicate (Q) in the sample location column of Table 2 or Table 3. One sample, 4600CL-R14-5Q, was collected because a total of 30 samples were obtained.

3.2 LEAD-BASED PAINT SURVEY

A total of 11 homogeneous paint color variations were analyzed for the presence of LBPs and LCPs (Table 4; Figure 3). Under EPA 40 CFR Part 745, LBP is defined as any paint or surface coating that contains lead equal to or exceeding 0.5% (by weight), while LCP is defined as any paint or surface coating containing lead greater than or equal to 0.06% up to 0.5% (by weight). Caution should be taken during demolition to minimize cutting, abrading, or otherwise causing an air disturbance to this material and work must be completed in accordance with the OSHA Lead in Construction Standard (29 CFR 1926.62).

One lead sample (4600-Garage-11) result was found to be greater than 0.06% by weight and less than 0.5% by weight and is considered LCP (Table 4). The remaining 10 sample results were less than the LCP and LBP thresholds, and are considered non-lead containing paint (NLC). The laboratory analytical report is included in Appendix D.

3.2.1 TCLP LEAD ANALYTICAL RESULTS

One sample was analyzed to be LCP, thus TCLP analysis of lead was performed. TCLP analysis simulates the potential for the demolished building materials to leach lead if placed in the landfill and results of the analysis determine if the materials will be considered hazardous waste. TCLP analysis was performed for landfill compliance. The Toxicity Characteristic (TC) maximum concentration is 5 milligrams per liter (mg/L). The results of the TCLP analysis is <0.40 mg/L, which is below the regulated limit and therefore not considered hazardous. The analytical report is included in Appendix D.

3.3 REGULATED BUILDING MATERIALS INVENTORY SURVEY

Several suspect RBMs were visually identified throughout the structure. RBMs that are a cause of concern, when discovered, are discussed below. The following non-regulated hazardous building materials were identified at the property: gas main, gas meter, refrigerator, electrical breaker box, electric meter, and furnace. Althrough these items are non-regulated, they will need to be removed prior to demolition. A complete list of the RBMs is presented in Table 3-3, and selected locations of the RBMs are depicted in Figure 4.

4 Conclusions and Recommendations

4.1 ASBESTOS

Approximately 10 square feet of RACM was identified as duct wrap around the furnace supply registers in rooms 3, 6, and 10. These materials will require abatement due to being rendered friable easily prior to demolition of the structures.

Approximately 338 square feet of vinyl floor tile in rooms 3, 4, and 5 was also confirmed to be an ACM. This material is a Category I Non-friable ACM, but can be made friable during the demolition process. Therefore, the material will need to be abated prior to demolition.

No other ACM was identified throughout the structures; however, if additional suspect materials, not sampled during this investigation, are identified during demolition, they should either be assumed to be ACM or should be sampled prior to disturbance.

Prior to demolition activities, all friable and non-friable (that can or will be rendered friable) ACM that may be impacted during the demolition must be abated by a Colorado Certified Asbestos Abatement Contractor as required by NESHAP and the CDPHE – Air Pollution Control Division: Asbestos.

According to AHERA, EPA, and the CDPHE, materials testing at less than or equal to 1% asbestos fibers are not considered to be an asbestos containing material (ACM). However, any materials containing asbestos still need to be regulated. OSHA protocol must be followed when handling materials containing ANY amount of asbestos. Proper personal protective equipment (PPE) and engineering controls must be utilized if these materials will be impacted during demolition activities.

4.2 LEAD-BASED PAINT

Lead was detected at concentrations above the LCP threshold in 1 of the 11 samples. The remaining 10 samples are considered NLC. Although LCP was identified in the samples analyzed, the TC limit of 5 mg/L was not exceeded in the TCLP lead analysis. No lead abatement is required prior to demolition. TCLP results confirmed that the waste stream is not hazardous with respect to lead content.

While the TCLP results indicate that the waste stream is not characteristically hazardous with respect to lead content, LCP is still present in the building materials. Therefore, the contractor responsible for demolition of this structure is notified with receipt of this report of the presence or potential presence of LCP and/or LBP in the building materials that comprise the building. The contractor should also notify their employees of the presence of LCP prior to any disturbance, and make the US Department of Labor Occupational Safety and Health Administration publication number 3142-12R 2004 available to their workers. ("Lead in Construction", http://www.osha.gov/Publications/osha3142.pdf). The standards address topics such as permissible exposure limits (PELs) for workers, exposure assessment, protection of employees during assessment of exposure, employee notification, PPE, medical surveillance, along with other topics related to working with LCP and LBP.

4.3 REGULATED BUILDING MATERIALS

Materials found during the regulated materials inventory within the building may require special handling or disposal prior to demolition activities. If abatement is needed, APEC recommends that the asbestos contractor or general contractor selected by the client properly dispose of these regulated materials, per applicable regulations.

With regards to RBMs, if listed, it is likely that the ballasts in the fluorescent light fixtures do contain PCBs. Where a manufactures' label is present indicating "no PCBs", the ballast can be disposed of with recyclable metal or with other municipal waste. During removal for disposal as part of the demolition activities, each ballast should be visually inspected for the manufacture's label indicating "no PCBs". If the label does not have this notation, the ballast should be considered PCB-containing and should be disposed of as a hazardous waste in accordance with local, state, and federal regulatory guidelines. Refrigerators and air conditioning units contain freon; this will need to be reclaimed or taken to a facility capable of this activity. Mercury containing thermostats will need to be disposed of at a facility certified to take this type of material. The contractor should also carefully remove all associated fluorescent light tubes and compact fluorescent lights and recycle or dispose of these materials according to applicable regulations.

This inspection was primarily relevant to the Federal UWR requirements under 40 CFR 273. It should be noted that contractors submitting bids for removal of the RBMs should verify quantities, conditions, and locations of all RBMs prior to bid submittals and initiating demolition activities. The contractor is also responsible for proper recycling and/or disposal of the RBMs, and should follow all federal, state and local regulations when handling these materials.

5 Limitations

This Structure Survey Assessment Report was prepared by All-Phase Environmental Consultants, Inc., at the request of and for the sole benefit of Kiewit Meridiam Partners, or any entity controlling, controlled by, or under common control with Colorado Department of Transportation. APECs certified inspectors used reasonable diligence and professional judgement to identify all suspect asbestos-containing materials, lead based paint, and regulated building materials in the property. APEC will not be held liable for property damage or any loss of property value due to the inspection. This report is not an abatement plan and is intended to be informational only; APEC will not be held responsible for the mishandling of the information contained herein.

APEC utilized destructive inspection methods in performing this survey, however accessibility may have been a limiting condition. If additional impacted suspect materials are discovered during related work for which there are no sample documentation/results, APEC recommends pursuing one of the following alternatives: Sample and analyze the discovered suspect material(s) to determine whether it contains asbestos, lead or other regulated materials; or assume the material(s) to be containing, quantify and remove on a unit cost basis.

Notwithstanding any provision to the contrary, the total liability of "All Phase Environmental Consultants, Inc.", and its employees, officers or directors be liable in contract, tort, strict liability warranty or otherwise, for any special, incidental or consequential damages, such as but not limited to, delay, disruption, loss of product, loss of anticipated profits or revenue, damages, cost, and expenses, including attorney's fees, shall not exceed the aggregate amount paid to All Phase Environmental Consultants, Inc. under this Agreement regardless of the legal theory under which such liability is imposed.

Tables

Table 2	Asbestos Containing Samples
Table 3	Non-Asbestos Containing Samples
Table 4	Summary of Paint Chip Laboratory Analysis for Lead
Table 5	Summary of Regulated Building Materials

 Table 2
 Positive Asbestos Containing Samples and OSHA Regulated Samples

Sample Name	Sample Location	Lab Results/ Asbestos Type	Detection Method(s)	Condition	Material Description	Material Location	NESHAP Classification	Estimated Quantity
4600CL-R2-1C	ROOM 2	PLASTER 0.25%Chrysotile	Point Count	Good				(Sq. ft.)
4600CL-R8-1F	ROOM 8	PLASTER 0.50% Chrysotile	Point Count	Good	Smooth Plaster	Ceiling of room1 and Walls/Ceilings of rooms 2,3,4,5,6,7&8	OSHA Regulated Material	2,134
4600CL-R5-1G	ROOM 5	PLASTER <0.25% Chrysotile	Point Count	Good		,,,,,,,		
4600CL-R3-1A 4600CL-R4-1B 4600CL-R7-1D 4600CL-R6-1E		н	omogeneous to	Samples - 4600	OCL-R2-1C, 4600CL-F	R8-1F and 4600CL-R5-10	3	
4600CL-R1-2A	ROOM 1	PLASTER <0.25% Chrysotile	Point Count	Good	D 1 D 1		OSHA Regulated	520
4600CL-R1-2C		PLASTER <0.25% Chrysotile	Point Count	Good	Rough Plaster	igh Plaster Walls of room 1	Material	
4600CL-R1-2B			Homogen	neous to Sample	es - 4600CL-R1-2A ar	nd 4600CL-R1-2C		
4600CL-R3-4B	ROOM 3	Floor Tile	PLM	Good	Flooring/Floor Tile	Bottom Layer Flooring in rooms 3,4 & 5	Cat I	338
4600CL-R3-4A				Homogeneous	s to Sample - 4600CL	-R3-4B		•
4600CL-R10-7A	DOOM 40	DUCT WRAP 55% Chrystolite	55% Chrystolite PLM Good		DUCT WDAD	Supply duct		10
4600CL-R10-7B	ROOM 10	DUCT WRAP 60% Chrystolite	PLM	Good	DUCT WRAP	registers in rooms 3 & 6-can be seen in room 10 (basement)		10

ND=Non-Detect
PLM=Polarized Light Microscopy
NA=Not Applicable
RACM=Regulated Asbestos Containing Materials

Sample Name	Sample Location		Detection Method(s)		Material Description	Material Location	Classification	Estimated Quantity (Sq. ft.)
4600CL-R6-7C	IRCOME	DUCT WRAP 80% CHRYSOTILE	PLM	Good	DUCT WRAP	REGISTERS IN ROOMS 3 & 6	RACM	10

ND=Non-Detect
PLM=Polarized Light Microscopy
NA=Not Applicable
RACM=Regulated Asbestos Containing Materials

Table 3 Non-Asbestos Containing Samples

Sample Name	Sample Location	Lab Results/ Asbestos Type	Detection Method(s)	Condition	Material Description	Material Location	NESHAP Classification
4600CL-R3-3A	ROOM 3	ND	PLM	Good	CERAMIC TILE MASTIC	FLOORING IN	NA
4600CL-R3-3B	TOOM 5	ND	PLM	Good	OLIVAWIO TILL WAS TO	ROOMS 3,4 & 5	NA
4600CL-R10-5A	ROOM 10	ND	PLM	Good			NA
4600CL-R10-5B	ROOM 10	ND	PLM	Good			NA
4600CL-R14-5C	ROOM 14	ND	PLM	Good			NA
4600CL-R13-5D	ROOM 13	ND	PLM	Good	ROUGH DRYWALL	ROOMS 9,10,11,12,13&14	NA
4600CL-R13-5E	TOOM 13	ND	PLM	Good	TEXTURE		NA
4600CL-R14-5F	ROOM 14	ND	PLM	Good			NA
4600CL-R13-5G	ROOM 13	ND	PLM	Good			NA
4600CL-R14-5Q	ROOM 14	ND	PLM	Good			NA
4600CL-R13-6A	ROOM 13	ND	PLM	Good	Wood Pattern	WALLS OF ROOMS	NA
4600CL-R14-6B	ROOM 14	ND	PLM	Good	Flooring/Mastic		NA
4600CL-EX-8A		ND	PLM	Good	DOOLING		NA
4600CL-EX-8B	EXTERIOR	ND	PLM	Good	ROOFING	HOUSE ROOF	NA
4600CL-EX-9A	EXTERIUR	ND	PLM	Good	ROOFING	GARAGE ROOF	NA
4600CL-EX-9B		ND	PLM	Good			NA

ND=Non-Detect PLM=Polarized Light Microscopy NA=Not Applicable

 Table 4
 Summary of Paint Chip Laboratory Analysis for Lead

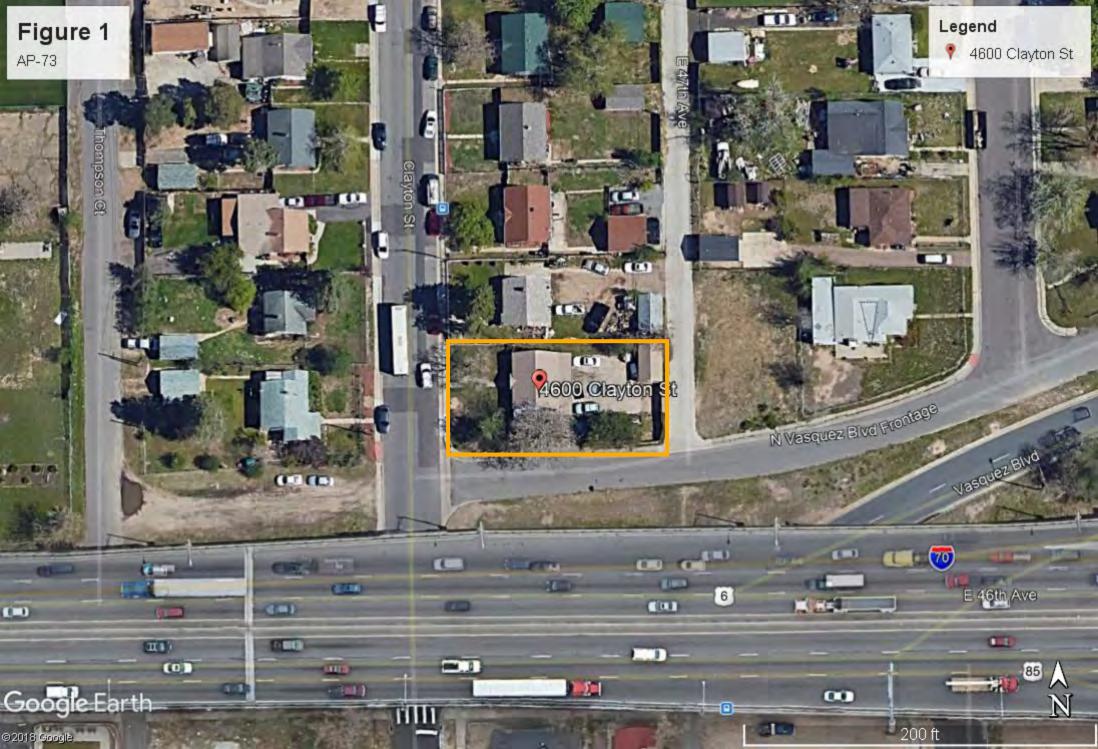
Sample Number	Sample Location	Lead Concentration (% wt.)	Component	Paint Description	Classification
4600-R1-I	Room I	<0.0080	Drywall	Red	NLC
4600-R1-2	Room I	<0.0080	Drywall	White	NLC
4600-R6-3	Room 6	<0.0080	Drywall	Pink	NLC
4600-R7-4	Room 7	0.047	Drywall	White	NLC
4600-Stairs-5	Stairs	0.023	Wood	Blue	NLC
4600-R10-6	Room 10	<0.0080	Drywall	White	NLC
4600-R13-7	Room 13	<0.0080	Drywall	Purple	NLC
4600-R13Q-8	Room 13	<0.0080	Drywall	Purple	NLC
4600-Out-9	OUTSIDE	<0.0080	Masonite	Brown	NLC
4600-Out-10	OUTSIDE	<0.0080	Wood	White	NLC
4600-Garage-II	GARAGE	0.21	Wood	Tan	LCP

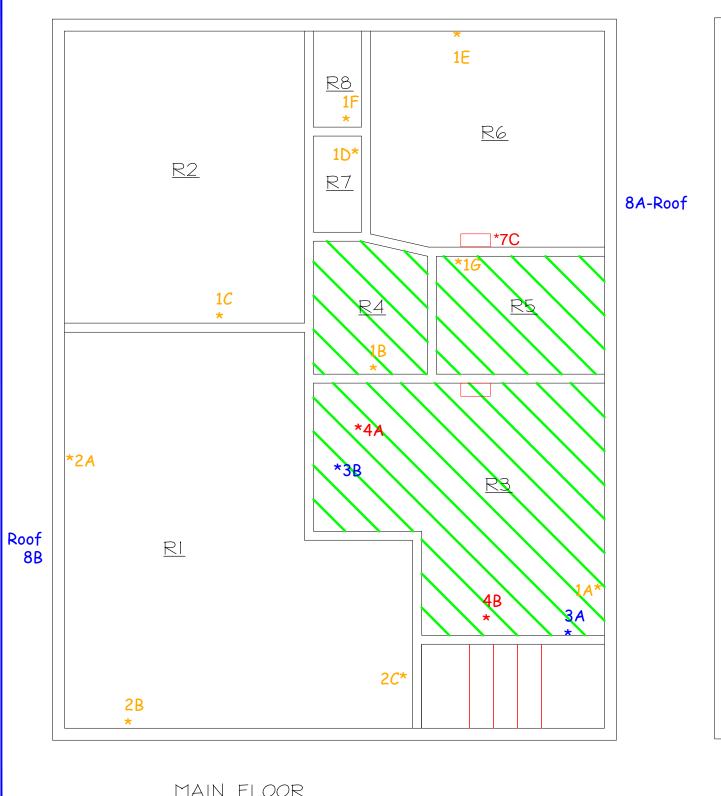
Table 5 Summary of Regulated Building Materials

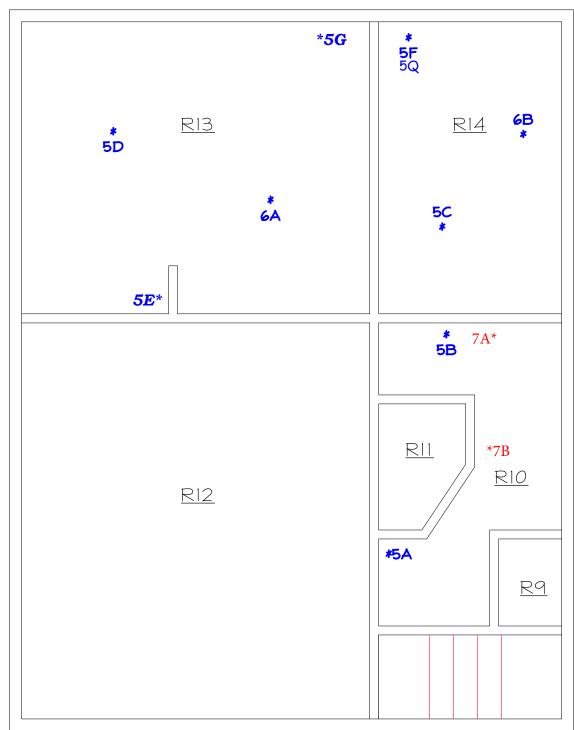
Room	Material	Location	Quantity
			Fixture/Bulbs each
Room 12	Fluorescent Light Fixture	Ceiling	I fix/2 bulbs
Room 3	Damaged Breaker box	East-Wall	I
Exterior	Breaker box	East-Wall	I
Exterior	Electric Meter	East-Wall	I
Exterior	Gas Meter	Exterior-South West Cor	I
Room II	Furnace	Basement	1
Room II	Gas Line	Ceiling	I
Room 3	Refrigerator	wall	I
Exterior	Security Light	West Side	1
Room 4	Thermostat-non merc	North Wall	1

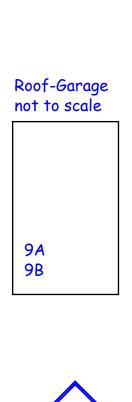
Figures

Figure 1	Site Location
Figure 2	Asbestos Bulk Sample Locations
Figure 3	Lead-Based Paint Sample Locations
Figure 4	Regulated Building Materials









DR BY: R.A.

APPROVED: B.N.E. SCALE: 1/4" = 1'-0"

MAIN FLOOR PLAN

= Positive Asbestos at Floor

= Vent Boot Wrap Positive for Asbestos (10A & 10B)

= OSHA Regulated Samples (1% or less)

4B

4B

= Room Numbers = Asbestos Samples (Detect) = Asbestos Samples (Non-Detect) BASEMENT

FIGURE 2 - Asbestos Bulk Sample Locations

CENTRAL 70 - Structure Survey Assessment Map

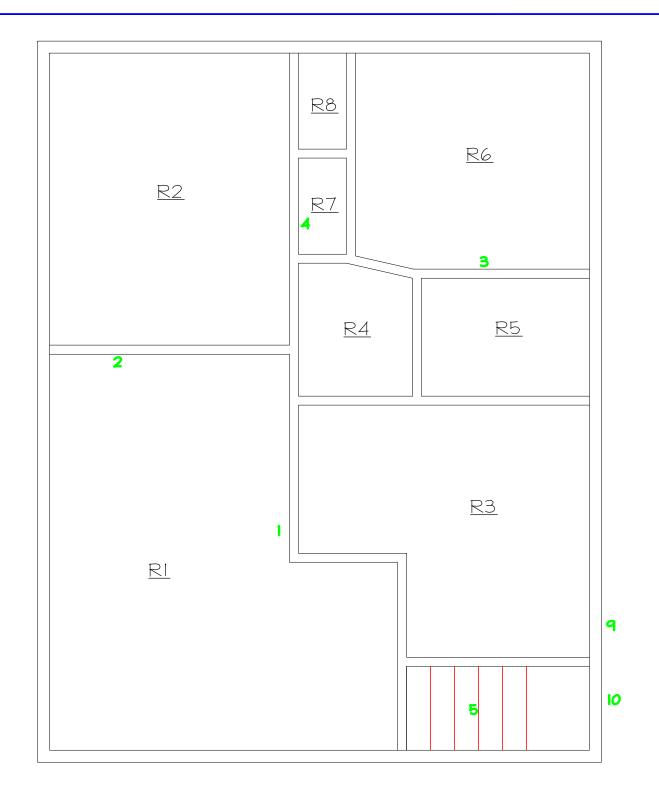
AP-73

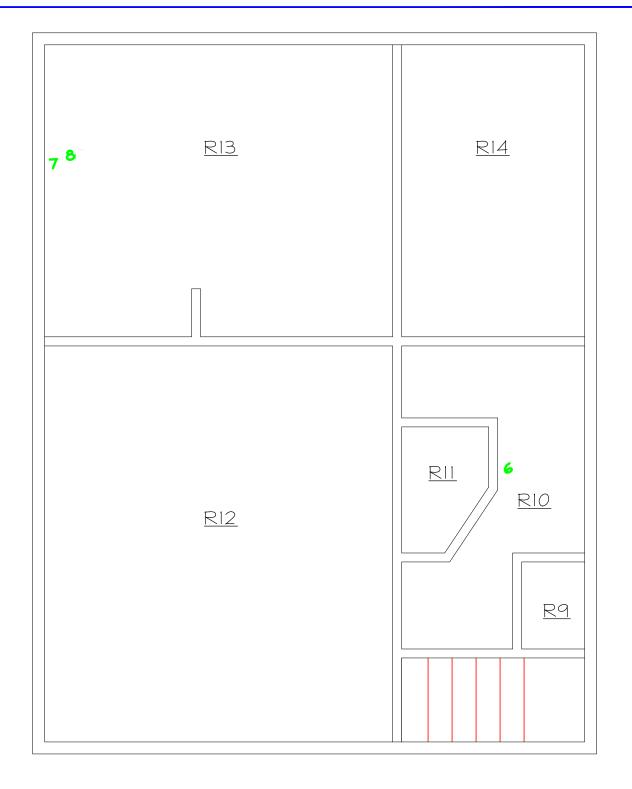
4600 Clayton Street, Denver, CO

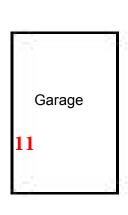
April 18, 2018

APEC #: 18-3066











DR BY: R.A.

APPROVED: B.N.E.

SCALE: 1/4" = 1'-0"

BASEMENT PLAN

FIGURE 3 - Lead-Based Paint Sample Locations

CENTRAL 70 - Structure Survey Assessment Map

AP-73

4600 Clayton Street, Denver, CO

April 18, 2018

APEC #: 18-3066



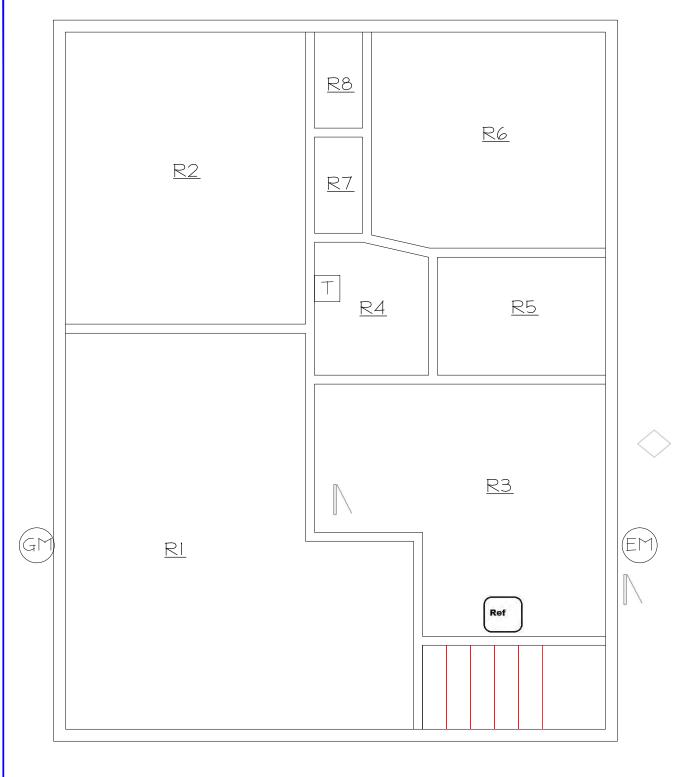
MAIN FLOOR PLAN

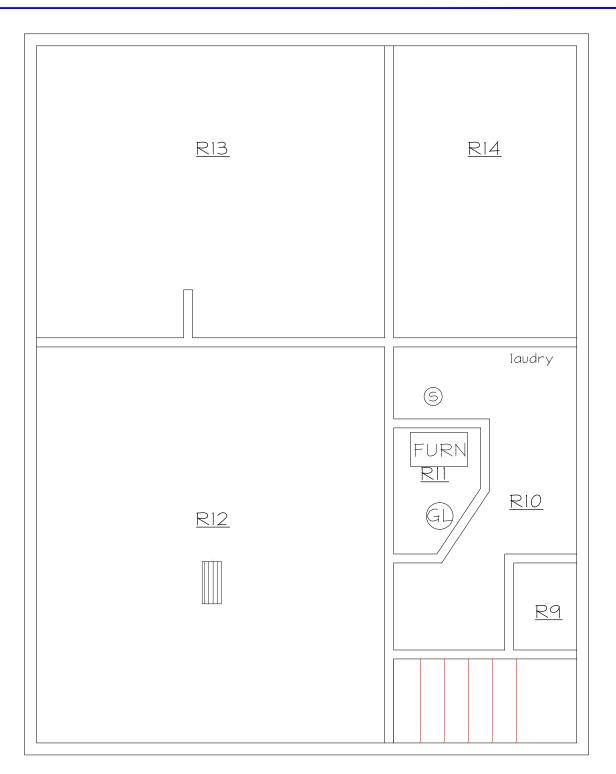
 \mathbb{R} = Room Numbers

4 = Lead Base Paint (Detect)

4 = Lead Containing Paint (Detect)

4 = Lead Base Paint (Non-Detect)





BASEMENT



DR BY: R.A.

APPROVED: B.N.E.

SCALE: 1/4" = 1'-0"

FIGURE 4 - Regulated Building Materials

CENTRAL 70 - Structure Survey Assessment Map

AP-73

4600 Clayton Street, Denver, CO

April 18, 2018

APEC #: 18-3066

ENVIRONMENTAL CONSULTANTS, INC.
721 W 9TH STREET
Pueblo, CO 81003 Ph: (719) 545-0375

MAIN FLOOR PLAN

= Room Numbers

= Electrical Meter

= Gas Line

= Breaker Panel



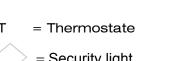
= Refrigerator



= Fluorescent Lights

GM = Gas Meter

= Security light





ASBESTOS AND LEAD CERTIFICATIONS



Colorado Department of Public Health and Environment

ASBESTOS CERTIFICATION*

This certifies that

Logan Greenfield

Certification No.: 20715

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 18, 2017

Expires:

October 18, 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



Colorado Department of Public Health and Environment

ASBESTOS CERTIFICATION*

This certifies that

Logan Greenfield

Certification No.: 20715

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: September 13, 2018

Expires: October 18, 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



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



Frenk Hulce

Certifies that

Logan Greenfield

20715

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: September 20, 2017
Certificate No.: R17-1661-AI-CO

No. of Hours: 4

Expiration Date: September 20, 2018

Certification not valid without watermark

Frank Hulce - Instructor

-Aanaya Boneditts

Danaya Benedetto- Training Program Manager



CHC Training Nationwide Training & Certification Experts

www.chctraining.com 303.412.6360 855.60.CERTIFY 1775 West 55th Avenue Denver, CO 80221, United States of America

CERTIFICATE OF ACHIEVEMENT

This certificate is awarded to:

LOGAN GREENFIELD

In recognition of satisfactory completion of the EPA-approved annual asbestos refresher training course under section 206 of the Toxic Substance Control Act (TSCA),

Title II entitled:

BUILDING INSPECTOR

COURSE DATE:

EXPIRATION DATE

COURSE HOURS:

SEPTEMBER 12, 2018 SEPTEMBER 12, 2019

4.0

Danaya N. Benedello
CEO & Training Program Manager

Credential License ID: 11943552



Daniel R. Beaver
Instructor

CHC Training Certificate No. R18-1729-AI-CO



Visit our Website



Verify this Credential



Colorado Department of Public Health and Environment

LEAD-BASED PAINT CERTIFICATION*

This certifies that

Richard L. Ralston

Certification No.: 9130

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 in the following discipline:

Risk Assessor*

Issued: February 10, 2017

Expires: February 10, 2019

* This certificate is valid only with the possession of a valid lead-based paint training certificate in the discipline specified above, issued by either a Colorado approved training provider, an EPA approved training provider, or a training provider approved by another EPA authorized program.

Authorized APCD Representative

SEAL



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



Certifies that

Richard Ralston

Has successfully completed the required training hours and passed the examination required by the Colorado Department of Public Health and Environment for:

Lead-Based Paint Risk Assessor Refresher

For the purposes of accreditation under the Colorado Department of Public Health and Environment Regulation No. 19 and other standard developed by EPA pursuant to Title IV of TSCA

Course Date: April 6, 2016

Certificate No.: R16-031-LRA-CO

No. of Hours: 8

Expiration Date: April 6, 2019

Certification not valid without watermark

Luis Peon - Instructor

Hamaya Baneditts

Danaya Benedetto - Training Program Manager

United States Department of Commerce National Institute of Standards and Technology



Certificate of Accreditation to ISO/IEC 17025:2005

NVLAP LAB CODE: 200828-0

EMSL Analytical, Inc.

Denver, CO

is accredited by the National Voluntary Laboratory Accreditation Program for specific services, listed on the Scope of Accreditation, for:

Asbestos Fiber Analysis

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005.

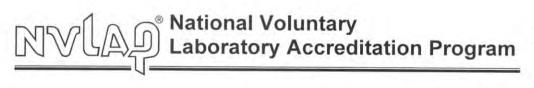
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).

2018-04-01 through 2019-03-31

Effective Dates



For the National Voluntary Laboratory Accreditation Program





SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

EMSL Analytical, Inc.

1010 Yuma Street Denver, CO 80204 Ms. Amanda Lang Phone: 303-740-5700 Email: alang@emsl.com http://www.emsl.com

ASBESTOS FIBER ANALYSIS

NVLAP LAB CODE 200828-0

Bulk Asbestos Analysis

Code Description

18/A01 EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of

Asbestos in Bulk Insulation Samples

18/A03 EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials

Airborne Asbestos Analysis

Code Description

18/A02 U.S. EPA's "Interim Transmission Electron Microscopy Analytical Methods-Mandatory and

Nonmandatory-and Mandatory Section to Determine Completion of Response Actions" as found in

40 CFR, Part 763, Subpart E, Appendix A.

For the National Voluntary Laboratory Accreditation Program



AIHA Laboratory Accreditation Programs, LLC

acknowledges that

EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077 Laboratory ID: 100194

along with all premises from which key activities are performed, as listed above, has fulfilled the requirements of the AIHA Laboratory Accreditation Programs (AIHA-LAP), LLC accreditation to the ISO/IEC 17025:2005 international standard, *General Requirements for the Competence of Testing and Calibration Laboratories* in the following:

LABORATORY ACCREDITATION PROGRAMS

- ✓ INDUSTRIAL HYGIENE
- ✓ ENVIRONMENTAL LEAD
- ✓ ENVIRONMENTAL MICROBIOLOGY
- ☐ FOOD
- **☐** UNIQUE SCOPES

Accreditation Expires: September 01, 2018 Accreditation Expires: September 01, 2018 Accreditation Expires: September 01, 2018

Accreditation Expires: Accreditation Expires:

Specific Field(s) of Testing (FoT)/Method(s) within each Accreditation Program for which the above named laboratory maintains accreditation is outlined on the attached **Scope of Accreditation**. Continued accreditation is contingent upon successful on-going compliance with ISO/IEC 17025:2005 and AIHA-LAP, LLC requirements. This certificate is not valid without the attached **Scope of Accreditation**. Please review the AIHA-LAP, LLC website (www.aihaaccreditedlabs.org) for the most current Scope.

Un much

William Walsh, CIH
Chairperson, Analytical Accreditation Board

Revision 15: 03/30/2016

Cheryl O. Morton

Managing Director, AIHA Laboratory Accreditation Programs, LLC

Date Issued: 08/31/2016



AIHA Laboratory Accreditation Programs, LLC SCOPE OF ACCREDITATION

Laboratory ID: **100194**

EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077

Issue Date: 08/31/2016

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

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

Environmental Lead Laboratory Accreditation Program (ELLAP)

Initial Accreditation Date: 01/18/1995

Field of Testing (FoT)	Technology sub-type/ Detector	Method	Method Description (for internal methods only)
Paint		EPA SW-846 3050B	
Pami		EPA SW-846 7000B	
Soil		EPA SW-846 3050B	
5011		EPA SW-846 7000B	
Cottled Duct by Wine		EPA SW-846 3050B	
Settled Dust by Wipe		EPA SW-846 7000B	
Airborne Dust		NIOSH 7082	
Composited Wines		EPA SW-846 3050B	
Composited Wipes		EPA SW-846 7000B	

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

Effective: 05/04/2015

100194_Scope_ELLAP_2016_08_31

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POSITIVE ASBESTOS AND LEAD SAMPLE MATERIAL PHOTOGRAPHS



Samples Represented – 4600CL-R3-4A 4600CL-R3-4B





Samples Represented – 4600CL-R10-7A 4600CL-R10-7B 4600CL-R6-7C





Exterior Garage Paint - LCP

Sample Represented – 4600-Garage-11



LABORATORY RESULTS & CHAIN OF CUSTODY - ASBESTOS



Customer PO: Project ID:

Attention: Logan Greenfield Phone: (719) 250-0036

All-Phase Environmental Consultants, Inc Fax: (719) 542-2807
721 West 9th Street Received Date: 04/19/2018 10:00 AM

Pueblo, CO 81003 Analysis Date: 04/24/2018 Collected Date: 04/18/2018

Project: Central 70/ 18-3066 (73)

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

		Non-Asbestos				
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type	
4600CL-R3-1A-Text	Smooth Plaster	White/Beige		20% Ca Carbonate	None Detected	
ure		Non-Fibrous		80% Non-fibrous (Other)		
221802671-0001		Heterogeneous				
		In	separable paint / coating layer inclu	ded in analysis		
4600CL-R3-1A-Skim	Smooth Plaster	White		100% Non-fibrous (Other)	None Detected	
Coat		Non-Fibrous				
221802671-0001A		Homogeneous				
4600CL-R3-1A-Plas	Smooth Plaster	Gray		5% Ca Carbonate	None Detected	
ter		Non-Fibrous		95% Non-fibrous (Other)		
221802671-0001B		Homogeneous				
4600CL-R4-1B-Text	Smooth Plaster	White/Beige		20% Ca Carbonate	None Detected	
ure		Non-Fibrous		80% Non-fibrous (Other)		
221802671-0002		Heterogeneous				
		In	separable paint / coating layer inclu	ded in analysis		
4600CL-R4-1B-Skim	Smooth Plaster	White		10% Ca Carbonate	None Detected	
Coat		Non-Fibrous		90% Non-fibrous (Other)		
221802671-0002A		Homogeneous				
4600CL-R4-1B-Plast	Smooth Plaster	Beige		5% Ca Carbonate	None Detected	
er		Non-Fibrous		95% Non-fibrous (Other)		
221802671-0002B		Homogeneous				
4600CL-R2-1C-Text	Smooth Plaster	White/Beige		15% Ca Carbonate	None Detected	
ure		Non-Fibrous		85% Non-fibrous (Other)		
221802671-0003		Heterogeneous				
		In	separable paint / coating layer inclu	ded in analysis		
4600CL-R2-1C-Skim	Smooth Plaster	White		10% Ca Carbonate	None Detected	
Coat		Non-Fibrous		90% Non-fibrous (Other)		
221802671-0003A		Homogeneous				
4600CL-R2-1C-Plast	Smooth Plaster	Gray		5% Ca Carbonate	<1% Chrysotile	
er		Non-Fibrous		95% Non-fibrous (Other)		
221802671-0003B		Homogeneous				

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Samples analyzed by EMSL Analytical, Inc. Denver, CO NVLAP Lab Code 200828-0



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Project: Central 70/ 18-3066 (73)

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-A	<u>Asbestos</u>	
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type
4600CL-R7-1D-Skim	Smooth Plaster	White		10% Ca Carbonate	None Detected
Coat		Non-Fibrous		90% Non-fibrous (Other)	
221802671-0004		Heterogeneous			
			Inseparable paint / coating layer include	ded in analysis	
4600CL-R7-1D-Plast	Smooth Plaster	Tan/Beige		5% Ca Carbonate	None Detected
er		Non-Fibrous		95% Non-fibrous (Other)	
221802671-0004A		Homogeneous			
4600CL-R6-1E-Text	Smooth Plaster	White/Pink		15% Ca Carbonate	None Detected
ure		Non-Fibrous		85% Non-fibrous (Other)	
221802671-0005		Heterogeneous			
4600CL-R6-1E-Skim	Smooth Plaster	Gray/Beige		10% Ca Carbonate	None Detected
Coat		Non-Fibrous		90% Non-fibrous (Other)	
221802671-0005A		Homogeneous			
4600CL-R6-1E-Plast	Smooth Plaster	Beige		5% Ca Carbonate	None Detected
er		Non-Fibrous		95% Non-fibrous (Other)	
221802671-0005B		Homogeneous			
4600CL-R8-1F-Skim	Smooth Plaster	White/Beige		5% Ca Carbonate	None Detected
Coat		Non-Fibrous		95% Non-fibrous (Other)	
221802671-0006		Heterogeneous			
			Inseparable paint / coating layer include	ded in analysis	
4600CL-R8-1F-Plast	Smooth Plaster	Beige		100% Non-fibrous (Other)	<1% Chrysotile
er		Non-Fibrous			
221802671-0006A		Homogeneous			
4600CL-R5-1G-Text	Smooth Plaster	Tan/White		20% Ca Carbonate	None Detected
ure		Non-Fibrous		80% Non-fibrous (Other)	
221802671-0007		Heterogeneous			
			Inseparable paint / coating layer include	ded in analysis	
4600CL-R5-1G-Skim	Smooth Plaster	White		10% Ca Carbonate	None Detected
Coat		Non-Fibrous		20% Gypsum	
221802671-0007A		Heterogeneous		70% Non-fibrous (Other)	
			Inseparable paint / coating layer include	ded in analysis	

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Project: Central 70/ 18-3066 (73)

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-A	Non-Asbestos		
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type	
4600CL-R5-1G-Plas	Smooth Plaster	Tan		10% Gypsum	<1% Chrysotile	
ter		Fibrous		90% Non-fibrous (Other)		
221802671-0007B		Homogeneous				
4600CL-R1-2A-Text	Rough Plaster	White/Red		15% Ca Carbonate	None Detected	
ure		Non-Fibrous		85% Non-fibrous (Other)		
221802671-0008		Homogeneous				
		Ir	nseparable paint / coating layer inclu	ded in analysis		
4600CL-R1-2A-Skim	Rough Plaster	White		10% Ca Carbonate	None Detected	
Coat		Non-Fibrous		90% Non-fibrous (Other)		
221802671-0008A		Homogeneous				
4600CL-R1-2A-Plas	Rough Plaster	Beige		100% Non-fibrous (Other)	<1% Chrysotile	
ter		Non-Fibrous				
221802671-0008B		Homogeneous				
4600CL-R1-2B-Skim	Rough Plaster	White/Beige		10% Ca Carbonate	None Detected	
Coat		Non-Fibrous		90% Non-fibrous (Other)		
221802671-0009		Heterogeneous				
4600CL-R1-2B-Plast	Rough Plaster	Beige		5% Ca Carbonate	None Detected	
er		Non-Fibrous		95% Non-fibrous (Other)		
221802671-0009A		Homogeneous				
4600CL-R1-2C-Text	Rough Plaster	White/Beige		20% Ca Carbonate	None Detected	
ure		Non-Fibrous		80% Non-fibrous (Other)		
221802671-0010		Heterogeneous				
		Ir	nseparable paint / coating layer inclu	ded in analysis		
4600CL-R1-2C-Skim	Rough Plaster	White		10% Ca Carbonate	None Detected	
Coat		Non-Fibrous		20% Gypsum		
221802671-0010A		Heterogeneous		70% Non-fibrous (Other)		
		Ir	nseparable paint / coating layer inclu	ded in analysis		
4600CL-R1-2C-Plast	Rough Plaster	Tan		10% Gypsum	<1% Chrysotile	
er		Fibrous		90% Non-fibrous (Other)		
221802671-0010B		Homogeneous				

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Samples analyzed by EMSL Analytical, Inc. Denver, CO NVLAP Lab Code 200828-0



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Project: Central 70/ 18-3066 (73)

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-As	<u>Non-Asbestos</u>	
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type
4600CL-R3-3A 221802671-0011	Ceramic Tile Mastic	Gray Non-Fibrous Homogeneous		5% Ca Carbonate 95% Non-fibrous (Other)	None Detected
4600CL-R3-3B-Thin set 221802671-0012	Ceramic Tile Mastic	Gray Non-Fibrous Homogeneous		15% Ca Carbonate 85% Non-fibrous (Other)	None Detected
4600CL-R3-3B-Whit e Material 221802671-0012A	Ceramic Tile Mastic	White Fibrous Homogeneous	60% Cellulose 15% Glass	25% Non-fibrous (Other)	None Detected
			Fibrous material resembling sheet vinyl	I backing / underlayment attached to gray the	
4600CL-R3-4A-Mas tic 1 221802671-0013	Flooring	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
4600CL-R3-4A-Floo ring 221802671-0013A	Flooring	Red Non-Fibrous Homogeneous	15% Cellulose	85% Non-fibrous (Other)	None Detected
4600CL-R3-4A-Mas tic 2 221802671-0013B	Flooring	Brown/Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
4600CL-R3-4A-Felt 221802671-0013C	Flooring	Black Fibrous Homogeneous	45% Cellulose	55% Non-fibrous (Other)	None Detected
4600CL-R3-4A-Floo ring 2 221802671-0013D	Flooring	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
4600CL-R3-4A-Mas tic 221802671-0013E	Flooring	Brown/Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
4600CL-R3-4A-Felt 221802671-0013F	Flooring	Black Fibrous Homogeneous	45% Cellulose	55% Non-fibrous (Other)	None Detected

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description		Non-Asbestos		<u>Asbestos</u>
		Appearance	% Fibrous	% Non-Fibrous	% Туре
4600CL-R3-4B-Bac	Flooring	White	15% Glass	85% Non-fibrous (Other)	None Detected
king		Fibrous			
221802671-0014		Homogeneous			
			White, fibrous material resembling she	et vinyl backing / underlayment on top of floo	or tile
1600CL-R3-4B-Floo	Flooring	White/Beige		30% Ca Carbonate	2% Chrysotile
Tile		Non-Fibrous		68% Non-fibrous (Other)	
221802671-0014A		Homogeneous			
1600CL-R3-4B-Mast	Flooring	Yellow		100% Non-fibrous (Other)	None Detected
c 1		Non-Fibrous			
221802671-0014B		Homogeneous			
1600CL-R3-4B-Floo	Flooring	Red	15% Cellulose	30% Ca Carbonate	None Detected
ing 1		Non-Fibrous		55% Non-fibrous (Other)	
221802671-0014C		Homogeneous			
4600CL-R3-4B-Tar	Flooring	Black	70% Cellulose	30% Non-fibrous (Other)	None Detected
Felt 1		Fibrous			
221802671-0014D		Homogeneous			
1600CL-R3-4B-Mast	Flooring	Tan		100% Non-fibrous (Other)	None Detected
c 2		Non-Fibrous			
221802671-0014E		Homogeneous			
1600CL-R3-4B-Floo	Flooring	Tan	15% Cellulose	30% Ca Carbonate	None Detected
ing 2		Non-Fibrous		55% Non-fibrous (Other)	
221802671-0014F		Homogeneous			
1600CL-R3-4B-Tar	Flooring	Black	70% Cellulose	30% Non-fibrous (Other)	None Detected
Felt 2		Fibrous			
221802671-0014G		Homogeneous			
1600CL-R3-4B-Mast	Flooring	Red		100% Non-fibrous (Other)	None Detected
c 3		Non-Fibrous			
221802671-0014H		Homogeneous			

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Project: Central 70/ 18-3066 (73)

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		<u>Asbestos</u>
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type
4600CL-R10-5A-Te	Rough Texture Drywall	White/Purple		15% Ca Carbonate	None Detected
xture		Non-Fibrous		85% Non-fibrous (Other)	
221802671-0015		Heterogeneous			
		Inseparable paint / coating layer included in analysis			
4600CL-R10-5A-Ta	Rough Texture Drywall	Yellow	98% Cellulose	2% Non-fibrous (Other)	None Detected
ре		Fibrous			
221802671-0015A		Homogeneous			
4600CL-R10-5A-Joi	Rough Texture Drywall	White		20% Ca Carbonate	None Detected
nt Compound		Non-Fibrous		80% Non-fibrous (Other)	
221802671-0015B		Homogeneous			
4600CL-R10-5A-Dr	Rough Texture Drywall	Gray	10% Cellulose	65% Gypsum	None Detected
ywall		Fibrous	<1% Glass	25% Non-fibrous (Other)	
221802671-0015C		Homogeneous			
4600CL-R10-5B-Tex	Rough Texture Drywall	Tan/White/Beige		20% Ca Carbonate	None Detected
ture		Non-Fibrous		80% Non-fibrous (Other)	
221802671-0016		Heterogeneous			
4600CL-R10-5B-Dry	Rough Texture Drywall	Beige	20% Cellulose	65% Gypsum	None Detected
wall		Fibrous		15% Non-fibrous (Other)	
221802671-0016A		Homogeneous			
4600CL-R14-5C-Tex	Rough Texture Drywall	Beige		15% Ca Carbonate	None Detected
ture		Non-Fibrous		85% Non-fibrous (Other)	
221802671-0017		Heterogeneous			
		Inseparable paint / coating layer included in analysis			
4600CL-R14-5C-Dry	Rough Texture Drywall	Beige	20% Cellulose	65% Gypsum	None Detected
wall		Fibrous		15% Non-fibrous (Other)	
221802671-0017A		Homogeneous			
4600CL-R13-5D-Tex	Rough Texture Drywall	White		15% Ca Carbonate	None Detected
ture		Non-Fibrous		85% Non-fibrous (Other)	
221802671-0018		Heterogeneous			
		Inseparable paint / coating layer included in analysis			

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

	Description		Non-Asbestos		<u>Asbestos</u> % Type	
Sample		Appearance	% Fibrous % Non-Fibrous			
4600CL-R13-5D-Tap	Rough Texture Drywall	Yellow	98% Cellulose	2% Non-fibrous (Other)	None Detected	
е		Fibrous				
221802671-0018A		Homogeneous				
4600CL-R13-5D-Joi	Rough Texture Drywall	White		20% Ca Carbonate	None Detected	
nt Compound		Non-Fibrous		80% Non-fibrous (Other)		
221802671-0018B		Homogeneous				
4600CL-R13-5D-Dry	Rough Texture Drywall	Beige	20% Cellulose	70% Gypsum	None Detected	
wall		Fibrous		10% Non-fibrous (Other)		
221802671-0018C		Homogeneous				
4600CL-R13-5E-Tex	Rough Texture Drywall	White/Purple		15% Ca Carbonate	None Detected	
ture		Non-Fibrous		85% Non-fibrous (Other)		
221802671-0019		Heterogeneous				
		Inseparable paint / coating layer included in analysis				
4600CL-R13-5E-Dry	Rough Texture Drywall	Beige	20% Cellulose	70% Gypsum	None Detected	
wall		Fibrous		10% Non-fibrous (Other)		
221802671-0019A		Homogeneous				
4600CL-R14-5F-Tex	Rough Texture Drywall	White/Beige		20% Ca Carbonate	None Detected	
ture		Non-Fibrous		80% Non-fibrous (Other)		
221802671-0020		Heterogeneous				
		Inseparable paint / coating layer included in analysis				
4600CL-R14-5F-Tap	Rough Texture Drywall	Yellow	98% Cellulose	2% Non-fibrous (Other)	None Detected	
е		Fibrous				
221802671-0020A		Homogeneous				
4600CL-R14-5F-Joi	Rough Texture Drywall	White		20% Ca Carbonate	None Detected	
nt Compound		Non-Fibrous		80% Non-fibrous (Other)		
221802671-0020B		Homogeneous				
4600CL-R14-5F-Dry	Rough Texture Drywall	Gray	10% Cellulose	65% Gypsum	None Detected	
wall		Fibrous	<1% Glass	25% Non-fibrous (Other)		
221802671-0020C		Homogeneous				

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Reporting limit is 1%

Samples analyzed by EMSL Analytical, Inc. Denver, CO NVLAP Lab Code 200828-0



Customer PO: Project ID:

Attention: Logan Greenfield Phone: (719) 250-0036

All-Phase Environmental Consultants, Inc Fax: (719) 542-2807
721 West 9th Street Received Date: 04/19/2018 10:00 AM

Pueblo, CO 81003 Analysis Date: 04/24/2018 Collected Date: 04/18/2018

Project: Central 70/ 18-3066 (73)

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

	Description		Non-Asbestos		<u>Asbestos</u> % Type
Sample		Appearance	% Fibrous % Non-Fibrous		
4600CL-R13-5G-Te	Rough Texture Drywall	White		15% Ca Carbonate	None Detected
xture		Non-Fibrous		85% Non-fibrous (Other)	
221802671-0021		Heterogeneous		ad to analysis	
			Inseparable paint / coating layer includ	·	
4600CL-R13-5G-Ta	Rough Texture Drywall	Tan	95% Cellulose	5% Non-fibrous (Other)	None Detected
ре		Fibrous			
221802671-0021A		Homogeneous			
4600CL-R13-5G-Joi	Rough Texture Drywall	White		20% Ca Carbonate	None Detected
nt Compound		Non-Fibrous		80% Non-fibrous (Other)	
221802671-0021B		Homogeneous			
4600CL-R13-5G-Dr	Rough Texture Drywall	Brown/Gray	15% Cellulose	70% Gypsum	None Detected
ywall		Fibrous	<1% Glass	15% Non-fibrous (Other)	
221802671-0021C		Homogeneous			
4600CL-R14-5Q-Te	Rough Texture Drywall	White/Purple		20% Ca Carbonate	None Detected
xture		Non-Fibrous		80% Non-fibrous (Other)	
221802671-0022		Heterogeneous			
		Inseparable paint / coating layer included in analysis			
4600CL-R14-5Q-Ta	Rough Texture Drywall	Tan	95% Cellulose	5% Non-fibrous (Other)	None Detected
ре		Fibrous			
221802671-0022A		Homogeneous			
4600CL-R14-5Q-Joi	Rough Texture Drywall	White		20% Ca Carbonate	None Detected
nt Compound		Non-Fibrous		80% Non-fibrous (Other)	
221802671-0022B		Homogeneous			
4600CL-R14-5Q-Dr	Rough Texture Drywall	Brown/White	20% Cellulose	65% Gypsum	None Detected
ywall		Fibrous		15% Non-fibrous (Other)	
221802671-0022C		Homogeneous			
4600CL-R13-6A-Flo	Wood Flooring Mastic	Tan/Beige		100% Non-fibrous (Other)	None Detected
oring		Non-Fibrous			
221802671-0023		Homogeneous			

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Samples analyzed by EMSL Analytical, Inc. Denver, CO NVLAP Lab Code 200828-0



All-Phase Environmental Consultants, Inc.

EMSL Order: 221802671 Customer ID: ALLP62

Customer PO: Project ID:

Phone: (719) 250-0036

Fax: (719) 542-2807 Received Date: 04/19/2018 10:00 AM

Analysis Date: 04/24/2018 **Collected Date:** 04/18/2018

Project: Central 70/ 18-3066 (73)

721 West 9th Street

Pueblo, CO 81003

Attention: Logan Greenfield

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-A	<u>Asbestos</u>	
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type
4600CL-R13-6A-Ma stic 221802671-0023A	Wood Flooring Mastic	Brown/Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
4600CL-R14-6B-Flo oring 221802671-0024	Wood Flooring Mastic	Brown/White Non-Fibrous Homogeneous		35% Ca Carbonate 65% Non-fibrous (Other)	None Detected
4600CL-R14-6B-Ma stic 221802671-0024A	Wood Flooring Mastic	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
4600CL-R10-7A 221802671-0025	Duct Wrap	White Fibrous Homogeneous	35% Cellulose	10% Non-fibrous (Other)	55% Chrysotile
4600CL-R10-7B 221802671-0026	Duct Wrap	Gray/Tan Fibrous Homogeneous		40% Non-fibrous (Other)	60% Chrysotile
4600CL-EX-8A-Shin gle 1 221802671-0027	Roofing	Brown/Black Fibrous Homogeneous	8% Glass	92% Non-fibrous (Other)	None Detected
4600CL-EX-8A-Shin gle 2 221802671-0027A	Roofing	Black Fibrous Homogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
4600CL-EX-8A-Felt 221802671-0027B	Roofing	Black Fibrous Homogeneous	45% Cellulose	55% Non-fibrous (Other)	None Detected
4600CL-EX-8B-Shin gle 1 221802671-0028	Roofing	Brown/Black Fibrous Homogeneous	15% Glass	15% Ca Carbonate 70% Non-fibrous (Other)	None Detected
4600CL-EX-8B-Mast ic 221802671-0028A	Roofing	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Reporting limit is 1%

Samples analyzed by EMSL Analytical, Inc. Denver, CO NVLAP Lab Code 200828-0

Initial report from: 04/24/2018 18:40:32



EMSL Order: 221802671 Customer ID: ALLP62

Customer PO: Project ID:

Attention: Logan Greenfield Phone: (719) 250-0036

All-Phase Environmental Consultants, Inc Fax: (719) 542-2807
721 West 9th Street Received Date: 04/19/2018 10:00 AM

Pueblo, CO 81003 Analysis Date: 04/24/2018 Collected Date: 04/18/2018

Project: Central 70/ 18-3066 (73)

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-As	<u>Asbestos</u>	
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type
4600CL-EX-8B-Shin	Roofing	Gray/Black	15% Glass	15% Ca Carbonate	None Detected
gle 2		Fibrous		70% Non-fibrous (Other)	
221802671-0028B		Homogeneous			
4600CL-EX-8B-Tar	Roofing	Black	60% Cellulose	40% Non-fibrous (Other)	None Detected
Felt		Fibrous			
221802671-0028C		Homogeneous			
4600CL-EX-9A-Shin	Roofing	Brown/Black	10% Glass	90% Non-fibrous (Other)	None Detected
gle 1		Fibrous			
221802671-0029		Homogeneous			
4600CL-EX-9A-Shin	Roofing	Tan/Black	10% Glass	90% Non-fibrous (Other)	None Detected
gle 2		Non-Fibrous			
221802671-0029A		Homogeneous			
4600CL-EX-9A-Felt	Roofing	White	65% Cellulose	35% Non-fibrous (Other)	None Detected
221802671-0029B		Fibrous			
		Homogeneous			
4600CL-EX-9B-Shin	Roofing	Brown/Black	15% Glass	15% Ca Carbonate	None Detected
gle 1		Fibrous		70% Non-fibrous (Other)	
221802671-0030		Homogeneous			
4600CL-EX-9B-Mast	Roofing	Black		10% Ca Carbonate	None Detected
ic		Non-Fibrous		90% Non-fibrous (Other)	
221802671-0030A		Homogeneous			
4600CL-EX-9B-Shin	Roofing	Gray/Black	15% Glass	15% Ca Carbonate	None Detected
gle 2		Fibrous		70% Non-fibrous (Other)	
221802671-0030B		Homogeneous			
4600CL-EX-9B-Tar	Roofing	Black	60% Cellulose	40% Non-fibrous (Other)	None Detected
Felt		Fibrous			
221802671-0030C		Homogeneous			

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Reporting limit is 1%

Samples analyzed by EMSL Analytical, Inc. Denver, CO NVLAP Lab Code 200828-0

Initial report from: 04/24/2018 18:40:32



Henry Printy

EMSL Order: 221802671 Customer ID: ALLP62

Customer PO: Project ID:

Attention: Logan Greenfield Phone: (719) 250-0036

All-Phase Environmental Consultants, Inc Fax: (719) 542-2807
721 West 9th Street Received Date: 04/19/2018 10:00 AM

Pueblo, CO 81003 Analysis Date: 04/24/2018 Collected Date: 04/18/2018

Project: Central 70/ 18-3066 (73)

The samples in this report were submitted to EMSL for analysis by Asbestos Analysis of Bulk materials via EPA/600 (0513) Method using Polarized Light Microscopy. The reference number for these samples is the EMSL Order ID above. Please use this reference number when calling about these samples.

Report Comments:

Sample Receipt Date: 04/19/2018 Sample Receipt Time: 10:00 AM

Analysis Completed Date: 04/24/2018 Analysis Completed Time: 6:39 PM

Analyst(s):

Stuart Printz PLM (36)

Timothy Kleehammer PLM (56)

Samples Reviewed and approved by:

Amanda Lang, Asbestos Laboratory Manager or other approved signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Reporting limit is 1%

Samples analyzed by EMSL Analytical, Inc. Denver, CO NVLAP Lab Code 200828-0



EMSL Analytical, Inc.

1010 Yuma Street, Denver, CO 80204

Phone/Fax: (303) 740-5700 / (303) 741-1400

http://www.EMSL.com denverlab@emsl.com

EMSL Order: 221802671 CustomerID: ALLP62

CustomerPO: ProjectID:

Logan Greenfield
All-Phase Environmental Consultants, Inc
721 West 9th Street
Pueblo, CO 81003

Phone: (719) 545-0375 Fax: (719) 542-2807 Received: 04/19/18 10:00 AM

Analysis Date: 4/30/2018 Collected: 4/18/2018

Project: Central 70/ 18-3066 (73)

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy. Quantitation using 400 Point Count Procedure

				<u>Nor</u>	n-Asbestos	<u>Asbestos</u>
Sample	Description	Appearance	%	Fibrous	% Non-Fibrous	% Type
4600CL-R2-1C- Plaster 221802671-0003B	Smooth Plaster	Gray Non-Fibrous			99.75% Non-fibrous (other)	0.25% Chrysotile
		Homogeneous				
4600CL-R8-1F- Plaster 221802671-0006A	Smooth Plaster	Beige Non-Fibrous			99.50% Non-fibrous (other)	0.50% Chrysotile
		Homogeneous				
4600CL-R5-1G- Plaster 221802671-0007B	Smooth Plaster	Tan Non-Fibrous			100.00% Non-fibrous (other)	<0.25% Chrysotile
221002011-00015		Homogeneous				
4600CL-R1-2A- Plaster 221802671-0008B	Rough Plaster	Beige Non-Fibrous			100.00% Non-fibrous (other)	<0.25% Chrysotile
		Homogeneous				
4600CL-R1-2C- Plaster	Rough Plaster	Tan			100.00% Non-fibrous (other)	<0.25% Chrysotile
221802671-0010B		Non-Fibrous				
		Homogeneous				

Disclaimer:Some samples may contain asbestos fibers present in dimensions below PLM resolution limits. The limit of detection as stated in the method is 0.25%. EMSL Analytical Inc suggests that samples reported as <0.25% or none detected undergo additional analysis via TEM. The above test report relates only to the items tested. This report may not be reproduced, except in full, without written approval of EMSL Analytical Inc. This test report must not be used by the client to claim product endorsement by NVLAP or any agency of the United States Government. EMSL Analytical Inc., bears no responsibility for sample collection activities, analytical method limitations, or the accuracy of results when requested to separate layered samples. EMSL Analytical Inc., liability is limited to the cost of sample analysis. The test results contained within this report meet the requirements of NELAC unless otherwise noted. Samples received in good condition unless otherwise noted. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample.

Samples analyzed by EMSL Analytical, Inc. Denver, CO NVLAP Lab Code 200828-0

Initial report from 04/30/2018 15:48:32



EMSL Analytical, Inc.

1010 Yuma Street, Denver, CO 80204

Phone/Fax: (303) 740-5700 / (303) 741-1400

http://www.EMSL.com denverlab@emsl.com

EMSL Order: CustomerID: 221802671

ALLP62

CustomerPO: ProjectID:

Logan Greenfield All-Phase Environmental Consultants, Inc 721 West 9th Street Pueblo, CO 81003

Phone: (719) 545-0375 Fax: (719) 542-2807 Received: 04/19/18 10:00 AM

Analysis Date: 4/30/2018 Collected: 4/18/2018

Project: Central 70/ 18-3066 (73)

The samples in this report were submitted to EMSL for analysis by Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy. Quantitation using 400 Point Count Procedure. The reference number for these samples is the EMSL Order ID above. Please use this reference number when calling about these samples.

Report Comments:

Sample Receipt Date:: 4/19/2018 Sample Receipt Time: 10:00 AM Analysis Completed Date: 4/30/2018 Analysis Completed Time: 3:43 PM

Analyst(s):

Amanda Lang PLM 400 Point Count (5)

Samples reviewed and approved by:

Amanda Lang, Asbestos Laboratory Manager or other approved signatory

Disclaimer:Some samples may contain asbestos fibers present in dimensions below PLM resolution limits. The limit of detection as stated in the method is 0.25%. EMSL Analytical Inc suggests that samples reported as <0.25% or none detected undergo additional analysis via TEM. The above test report relates only to the items tested. This report may not be reproduced, except in full, without written approval of EMSL Analytical Inc. This test report must not be used by the client to claim product endorsement by NVLAP or any agency of the United States Government. EMSL Analytical Inc., bears no responsibility for sample collection activities, analytical method limitations, or the accuracy of results when requested to separate layered samples. EMSL Analytical Inc., liability is limited to the cost of sample analysis. The test results contained within this report meet the requirements of NELAC unless otherwise noted. Samples received in good condition unless otherwise noted. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample.

Samples analyzed by EMSL Analytical, Inc. Denver, CO NVLAP Lab Code 200828-0

OrderID: 221802671 **460**0



Asbestos Chain of Custody EMSL Order Number (Lab Use Only):

221802671

EMSL Analytical, Inc. 1010 Yuma Street

Denver, CO 80204 PHONE: (303) 740-5700 FAX: (303) 741-1400

							<u>* </u>
Company : All-Phase Environmental Consultants, Inc.			EMSL-Bill to: Different Same If Bill to is Different note instructions in Comments				
Street: 721 W. 9th Street			Third Party Billing requires written authorization from third party				
City: Pueblo	State/P	rovince: CO	Zip/Postal Code: 81003 Country: United States				
Report To (Name): Lo	ogan Greenfield		Tele	phone #: 719-250-0	036		
Email Address: loga	n@allphaseenvironme		Fax			ase Oi	rder:
Project Name/Numbe	er: Contral 70/1	8-304 F13)	Plea	se Provide Results:	FAX ,	∕ E-m	
U.S. State Samples T				necticut Samples:	Commercial [Res	idential
*For TEM Air 3 hr through	Hour 24 Hour 6 hr, please call ahead to schorm for this service. Analysis	☐ 48 Hour redule.*There is a prer	nium ch	arge for 3 Hour TEM AH	6 Hour	Week	2 Week 'ou will be asked to sign
	f samples are from NY	TEM - Air 4-			TEM- Dust	37 BIGITA	3017 1100 00100
☐ NIOSH 7400		☐ AHERA 40 C	FR, P	art 763	Microvac - A	ASTM C	5755
☐ w/ OSHA 8hr. TW/	<u> </u>	☐ NIOSH 7402			☐ Wipe - ASTI	M D648	30
PLM - Bulk (reporting		☐ EPA Level II			☐ Carpet Soni	cation	(EPA 600/J-93/167)
PLM EPA 600/R-93		☐ ISO 10312			Soil/Rock/Verr		
☐ PLM EPA NOB (<1	%)	TEM - Bulk	_		_		A (0.25% sensitivity)
Point Count 400 (<0.25%) 10	200 (-0 19/)	TEM EPA NO		fichle NNO			3 (0.1% sensitivity) 3 (0.1% sensitivity)
Point Count w/Gravime	•	☐ NYS NOB 198		n-πable-NY)	_		` ',
☐ 400 (<0.25%) ☐ 10				-FPA 600 sec 2.5	☐ TEM CARB 435 - C (0.01% sensitivity) ☐ TEM Qual. via Filtration Technique		
NYS 198.1 (friable	` '	TEM Mass Analysis-EPA 600 sec. 2.5 TEM – Water: EPA 100.2		☐ TEM Qual. via Drop-Mount Technique			
☐ NYS 198.6 NOB (m	•	Fibers >10µm ☐ Waste ☐ Drinking		Other:			
☐ NIOSH 9002 (<1%	·	All Fiber Sizes Waste Drinking					
	e Stop – Clearly Identify	Homogenous G	roun	Fifter Pore Size (A	ir Samples):	0.8µ	m
	USAN GREEN	^		mplers Signature:	<u> </u>	A	111
Sample #	•	Sample Description			Volame/Area (HA # (Bulk		Date/Time Sampled
4600 CL - R3-10		th Plost			,		4/18/2018
4200CL- 841B		<u> </u>		<u></u>	- <u> </u>		
4600CL - RZ-1C	-						
46 OUCL-187-10							
4600CL-R6-18							
4600cl- R8-1F				·			
4600 eL-R5-1G		4					
46066-12124	Rough	PLOST ER	<u> </u>				4
Client Sample # (s):		/ 4 5 -			Total # of Samp	les:	31
Relinquished (Client):	Za A	Date:	ч	18/2018		Time:	17:10 (0:00
Received (Lab):	CH 1	Date:	41.	9/18		Time:	
Comments/Special Ins	structions:	•	1	' FMF	£ 7954 3	393	59 15072/2

Page 1 of 2 pages



Asbestos Chain of Custody EMSL Order Number (Lab Use Only)

EMSL Analytical, Inc 1010 Yuma Street

Denver, CO 8 0204 Fig. (a) 740-5700 1 (303) 741-1400

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
4200 CL- RI-2B	Rough Plaster		4/18/18
4700 CL- RI- 2C	4		4
4200 CL-R3 3A	CERAMIC TILE MASTIC		
47000-13-38	+		
4760CL- P5-4A	Tlouring		
4700C1 - R34B			
4700CL-R10-5A	Rough texTURE DRY WALL		
4700 CL-R10-5B			<u> </u>
4700CL RIY- 5C	<u> </u>		
470UCL-R13-5D			
1700CL- R13-5E	4		
1700cL- RI4-SF	Rough TEXTURE DRYWBY		
1700 CL- R13-5G			
1700 CL- R14.50	4		
1700 CL- R13.6A	wood Stooning Mastic		
1700CL- RIY-6B	V		
1700 CL- RID-7A	DUCT WRAP		
1700CL- B10-7B			
700CL- EX-8A	Ruofing		<u> </u>
700CL-EX-8B	<u> </u>		
700 CL- EX-9A			<u> </u>
700 CL- Ex-96	4		*
Comments/Special Instru			
zommento/opecial instru	cuons:		

Page 2 of 2 pages



All-Phase Environmental Consultants, Inc.

EMSL Order: 221805959 Customer ID: ALLP62

Customer PO: Project ID:

Phone: (719) 250-0036

Fax: (719) 542-2807

Received Date: 08/02/2018 9:00 AM

Analysis Date: 08/03/2018 **Collected Date:** 08/02/2018

Project: 18-3066-CDOT-A-AP73

721 West 9th Street

Pueblo, CO 81003

Attention: Logan Greenfield

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-As	sbestos	<u>Asbestos</u>
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type
4600C-R6-7C	Duct Wrap	Tan/White		20% Non-fibrous (Other)	80% Chrysotile
221805959-0001		Fibrous			
		Homogeneous			

EMSL maintains liability limited to cost of analysis. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method"), but augmented with procedures outlined in the 1993 ("final") version of the method. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. All samples received in acceptable condition unless otherwise noted. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. EMSL recommends gravimetric reduction for all non-friable organically bound materials prior to analysis. Estimation of uncertainty is available on request.

Initial report from: 08/03/2018 12:26:50



manda Sang

EMSL Order: 221805959 Customer ID: ALLP62

Customer PO: Project ID:

Attention: Logan Greenfield Phone: (719) 250-0036

All-Phase Environmental Consultants, Inc Fax: (719) 542-2807
721 West 9th Street Received Date: 08/02/2018 9:00 AM

Pueblo, CO 81003 Analysis Date: 08/03/2018 Collected Date: 08/02/2018

Project: 18-3066-CDOT-A-AP73

The samples in this report were submitted to EMSL for analysis by Asbestos Analysis of Bulk materials via EPA/600 (0513) Method using Polarized Light Microscopy. The reference number for these samples is the EMSL Order ID above. Please use this reference number when calling about these samples.

Report Comments:

Sample Receipt Date: 08/02/2018 Sample Receipt Time: 9:00 AM

Analysis Completed Date: 08/03/2018 Analysis Completed Time: 12:21 PM

Analyst(s):

Amanda Lang PLM (1)

Samples Reviewed and approved by:

Amanda Lang, Asbestos Laboratory Manager or other approved signatory

EMSL maintains liability limited to cost of analysis. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method"), but augmented with procedures outlined in the 1993 ("final") version of the method. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. All samples received in acceptable condition unless otherwise noted. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. EMSL recommends gravimetric reduction for all non-friable organically bound materials prior to analysis. Estimation of uncertainty is available on

OrderID: 221805959

EMSL ANALYTICAL, INC.

Asbestos Chain of Custody EMSL Order Number (Lab Use Only):

EMSL Analytical, Inc. 1010 Yuma Street

771805959

Denver, CO 80204 PHONE: (303) 740-5700 FAX: (303) 741-1400

Company: All-Phase Environmenta	EMSL-Bill to: Different Different Same								
Street: 721 W. 9th Street			Third Party Billing requires written authorization from third party					arty	
City: Pueblo	State/Pi	rovince: CO	Zip/Postal Code: 81003 Country: United States						
Report To (Name): Logan Greenfield	•		Telephone #: 719		036				
Email Address: logan@allphaseer		ntal com	Fax #:			Durah	ase Ord	dom	
Project Name/Number: 18-3066			Please Provide R	eculte:	FA:		E-ma		Mail
U.S. State Samples Taken: CO	CDDI	7 /11 / 2	Connecticut Sam						
	Turna	around Time (TA	() Options* – Pleas	<u> </u>					
	24 Hour	48 Hour	☐ 72 Hour	□ 9t	6 Hour		Week		2 Week
*For TEM Air 3 hr through 6 hr, please call at an authorization form for this service.	head to scho	edule.*There is a pren completed in accordar	nium charge for 3 Hour	TEM AHE	RA or EPA	Level II ed in the	TAT. Yo	u will be as al Price Gu	sked to sign ide
PCM - Air Check if samples are from			4.5hr TAT (AHERA o		TEM- Du		7 117017 1170		
□ NIOSH 7400		☐ AHERA 40 C		-	Micro		STM D	5755	
☐ w/ OSHA 8hr. TWA		☐ NIOSH 7402			_ ☐ Wipe	- ASTN	/ D6480)	
PLM - Bulk (reporting limit)		EPA Level II							J-93/167)
PLM EPA 600/R-93/116 (<1%)		☐ ISO 10312		İ	Soil/Roo				
☐ PLM EPA NOB (<1%)	ŀ	TEM - Bulk							ensitivity)
Point Count		☐ TEM EPA NO	В					(0.1% se	** 1
☐ 400 (<0.25%) ☐ 1000 (<0.1%)			8.4 (non-friable-NY)	. [(0.1% se	
Point Count w/Gravimetric		☐ Chatfield SOF	•						ensitivity)
☐ 400 (<0.25%) ☐ 1000 (<0.1%)	•	☐ TEM Mass Ar	nalysis-EPA 600 sed	c. 2.5	☐ TEM Qual, via Filtration Technique			nique	
☐ NYS 198.1 (friable in NY)	•				☐ TEM Qual, via Drop-Mount Technique			echnique	
☐ NYS 198,6 NOB (non-friable-NY)		Fibers >10µm ☐ Waste ☐ Drinking			Other:				
☐ NIOSH 9002 (<1%)		All Fiber Sizes [☐ Waste ☐ Drink	ing					
☐ Check For Positive Stop – Clearl	y Identify	Homogenous G	roup Filter Pore	Size (A	ir Sample	es):	_ 0.8µn	n 🔲 0.4	45µm
Samplers Name: Logan Gr		a !	Samplers Sign	·			11	11/	1
Pogare CIT	CEPUI	ICIQ	i campions organ		Volume	Area (Air)	Date	/Time
Sample #		Sample Descripti	on			# (Bulk)			pled
4600C-R6-7C	Duc	ct Wrap						8-2	2-18
		-· · ,							İ
						•			
	-						-+		
				_					
<u> </u>								•	
						_	$\overline{}$		
									
Client Sample # (s):		1.11.			Total # of	f Samp	les:	<u> </u>	
Relinquished (Client):	SL	Date	8-2-18	!			Time:	9:6	
Received (Lab):			: 8/2/18				Time:	9:00	5/IM
Comments/Special Instructions:			U , , U					W	5/14M 5

1

LABORATORY RESULTS & CHAIN OF CUSTODY LEAD & TCLP



EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077 (856) 303-2500 / (856) 786-5974

http://www.EMSL.com cinnaminsonleadlab@emsl.com EMSL Order: CustomerID: CustomerPO:

ProjectID:

201804174

ALLP62

Richard Ralston All-Phase Environmental Consultants, Inc 721 West 9th Street Pueblo, CO

(719) 225-6953 Phone: Fax: (719) 542-2807 Received: 04/19/18 10:20 AM

Collected:

Project: Central 70 / 18-3066-007

Test Report: Lead in Paint Chips by Flame AAS (SW 846 3050B/7000B)*

Client Sample Descrip	ption Lab ID Collect	ed Analyzed	Weight	Lead Concentration
4200-R1-1	201804174-0001	4/21/2018	0.2501 g	<0.0080 % wt
	Site: Red E Wall		-	
4200-R1-2	201804174-0002	4/21/2018	0.2507 g	<0.0080 % wt
	Site: White N Wall			
4200-R6-3	201804174-0003	4/21/2018	0.2620 g	<0.0080 % wt
	Site: Pink S Wall			
4200- R7-4	201804174-0004	4/21/2018	0.2893 g	0.047 % wt
	Site: White Door Frame			
4200 Stairs-5	201804174-0005	4/21/2018	0.2515 g	0.023 % wt
	Site: Blue Steps to Base	ement		
4200 R10-6	201804174-0006	4/21/2018	0.2556 g	<0.0080 % wt
	Site: WDU Basement			
4200 R13-7	201804174-0007	4/21/2018	0.2614 g	<0.0080 % wt
	Site: Purple			
4200 R13Q- 8	201804174-0008	4/21/2018	0.2525 g	<0.0080 % wt
	Site: Purple			
4200 Out-9	201804174-0009	4/21/2018	0.2776 g	<0.0080 % wt
	Site: Brown Outside Pai	nt		
1200 Out-10	201804174-0010	4/21/2018	0.2726 g	<0.0080 % wt
	Site: Exterior Door- Whi	te		
4200 Garage-11	201804174-0011	4/21/2018	0.2664 g	0.21 % wt
	Site: Tan			

Phillip Worby, Lead Laboratory Manager or other approved signatory

*Analysis following Lead in Paint by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 0.008 % wt based on the minimum sample weight per our SOP. Unless noted, results in this report are not blank corrected. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities. Samples received in good condition unless otherwise noted. "<" (less than) result signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements unless specifically indicated otherwise Definitions of modifications are available upon request.

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NELAP Certifications: NJ 03036, NY 10872, PA 68-00367, AIHA-LAP, LLC ELLAP 100194, A2LA 2845.01

Initial report from 04/23/2018 10:11:32

OrderID: 201804174



Chain of Custody EMSL Order Number (Lab Use Only):

201804174

200 Route 130 NURTH CINNAMINSON NJ 08077 PhoNE (800) 220 -3675 FAX (856) 658 -3502

PHONE

All Phase Environme	ental	EM	SL-Bill to: Same Different		
Company: All Phase Environme	entai	If Bill to is Different note instructions in Comments**			
Street:721 9th Street		Third Party Billing	ng requires written authorization from third party		
	State/Province: CO	Zip/Postal Code:	Country:		
Report To (Name): Rich sen Rac	570D	Telephone #:			
Email Address: Rick @ Allphase	ENVIRON MENTOL	e com	Purchase Order:		
Project Name/Number: CENTROL	70 /18-30/6-00	Please Provide Res	sults: Fax Email Mail		
U.S. State Samples Taken:Colorado	11. 3.00 001	Connecticut Samp	es: Commercial Residential		
	Turnaround Time (TA	AT) Options* - Pleas	se Check		
3 Hour 6 Hour 24	Hour 48 Hour	72 Hour	96 Hour 1 Week 2 Week		
*For RUSH TAT's Please Ca	all Ahead to Confirm Lab Ho	ours and Availability. Not	all TAT options are valid for every test.		
Materials Science and IAC			24 Hour = End of Next Business Day)		
	As	sbestos			
PCM - Air	PLM - Bulk		TEM - Bulk		
NIOSH 7400	PLM EPA 600/R-93/		TEM EPA NOB		
w/ 8hr. TWA	PLM EPA NOB (<1%		NYS NOB 198.4 (non-friable-NY)		
TEM- Air 4-4.5hr TAT(AHERA ONLY)	NYS 198.1 (friable-N		Chatfield SOP		
AHERA 40 CFR, Part 763	NYS 198.6 (non-friab		Soil/Rock/Vermiculite		
	Point Count 400 (<0				
ISO 10312	Point Count w/ Gravime	tric 0.25%)	PLM CARB 435 – B (0.1% sensitivity) TEM CARB 435 – B (0.1% sensitivity)		
	TEM - Dust	1.25%) 1000 (<0.17	EPA Reg. 1 Screening Protocol (Qualitative		
Fibers >10µm Waste Drinking	Microvac – ASTM D	5755	Other:		
All Fiber Sizes Waste Drinking	Wipe-ASTM D6480	3733	<u>odier.</u>		
	ead (Pb)		Materials Science		
	eau (Fb)	IOD			
Flame Atomic Absorption Chips SW846-7000B or AOAC 974.03	DA:-NUOCU 7	ICP	Common Particle ID (large particles) Full Particle ID (environmental dust)		
Soil SW846-7000B of AOAC 974.0.		300 Modified /ipe SW846-6010B or			
Air NIOSH 7082		SW846-6010B or C	Advanced Material ID		
Wastewater SM3111B or SW846-7000B		-6010 B or C	Physical Testing (Tensile, Compression)		
ASTM Wipe SW846-7000B/7420					
non ASTM Wipe SW846-7000B/7420	☐ Waste Wate	er SW846-6010B or C	Combustion-by-products (soot, char, etc.)		
TCLP SW846-1311/7420/SM 3111B	☐ TCLP SW84	16-6010B or C	X-Ray Fluorescence (elem. analysis)		
Graphite Furnace Atomic Abs		er:	X-Ray Diffraction (Crystalline Part.)		
Soil SW846-7421 Wastewater			MMVF's (Fibrous glass, RCF's)		
Air NIOSH 7105 Drinking Wa	ter EPA 200.9		Particle Size (sieve/microscopy/laser)		
Mic	robiology		Combustible Dust		
Wipe and Bulk Samples	Air Samples		Petrographic Examination		
Mold & Fungi – Direct Examination	Mold & Fungi (Spe	ore Trap)	Other:		
Mold & Fungi Culture (Genus Only)	Mold & Fungi Cult	ture (Genus Only)	IAQ		
Mold & Fungi Culture (Genus & Species)	Mold & Fungi (Ge		Nuisance Dust NIOSH 0500 0600		
Bacterial Count & ID (Up to Three Types)		ID (Up to Three Types)	Airborne Dust PM10 TSP		
Bacterial Count & ID (Up to Five Types)		ID (Up to Five Types)	Silica Analysis: All Species		
MRSA	Endotoxin Testing		Silica Analysis – Single Species		
Pseudomonas aeruginosa		See Analytical Guide for C			
Water Samples	Code:		HVAC Efficiency		
Total Coliform & E.coli (P/A)	Legionella		Carbon Black		
Fecal Coliform (SM 9222D)		Level 3 Level 4	Airborne Oil Mist		
Sewage Screen	Other:	20.0.0	Radon Testing: Call for Kit and COC		
Heterotrophic Plate Count (SM 9215)	Julian		Other:		
**Comments/Special Instructions:					
Comments/opecial instructions:					
Client Sample #'s -	-		Total # of Samples:		
0/1/1	-	4			
Relinquished (Client): Malsto			Time: 17:60		
Received (Lab): Imma	Date:	119/18	Time: 1020 1 /256 /2		

Analysis Completed in Accordance with EMSL's Terms and Conditions located in the Analytical Price Guide

Controlled Document-OneChain-R3-11/8/2011

OrderID: 201804174



Chain of Custody EMSL Order Number (Lab Use Only):

201804174

PHONE:

	Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
1	4200-R, -1	led, Ewsy		
2	42W-R, -2	white N wall	-	
3	4200-R6-3	PINK (S) WOLL		
4	420-19-4	White Door Frisme		
(4206 Stairs 5	Blue Steps to Bissement		1_1
u	4200 RID-6	WOU BASEMPT		
7	4200 R18-7	Purple		
8	4200 R13Q8	Pupple		
9	4200 out 9	Brown out sinc pring		14.00
0		EXTERIOR DUDIR - whole	(2)	
11	4200 GARAGE			
	*Comments/Special Inst	ructions:		

Analysis Completed in Accordance with EMSL's Terms and Conditions located in the Analytical Price Guide



EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077 Phone/Fax: (856) 303-2500 / (856) 786-5974

http://www.EMSL.com cinnaminsonleadlab@emsl.com

EMSL Order: CustomerID: 201804155 ALLP62

CustomerPO: ProjectID:

Attn: Richard Ralston
All-Phase Environmental Consultants, Inc
721 West 9th Street
Pueblo, CO

Phone: (719) 225-6953 Fax: (719) 542-2807 Received: 04/19/18 10:20 AM

Collected:

Project: Central 70 / 18-3066.

Test Report: Toxicity Characteristic Leachate Procedure (1311/7000B)

Client Sample Descriptio	n Lab ID	Collected	Analyzed	Lead Concentration
4200-TCLP-1	201804155-000	1	4/20/2018	<0.40 mg/L
	Site: Throughout	ut Building		

Phillip Worby, Lead Laboratory Manager or other approved signatory

 $Samples\ analyzed\ by\ EMSL\ Analytical,\ Inc.\ Cinnaminson,\ NJ\ NELAP\ Certifications:\ NJ\ 03036,\ NY\ 10872,\ PA\ 68-00367$

Initial report from 04/24/2018 09:48:18

OrderID: 201804155



Chain of Custody

EMSL Order Number (Lab Use Only).

201804155

200 Route 130 NURTH CINNAMINSON NJ 08077 PhoNE (800) 220-3675 FAX (456) 658-3502

PHONE:

Company: All Phase Environr	nental	EMSL-Bill to: Same Different If Bill to is Different note instructions in Comments**			
Street:721 9th Street		Third Party Billing requires written authorization from third party			
City: Pueblo	State/Province: CO	Zip/Postal Code: Country:			
Report To (Name): Richaen R		Telephone #:	- Journay.		
		4	Purchase Order:		
Project Name/Number:	SEELVIRONMENTAL	Please Provide Res			
Project Name/Number: CENTRO U.S. State Samples Taken:Colorado	10 118-3066-		es: Commercial Residential		
o.o. otate oumpies futeri.comass	Turnaround Time (TA				
3 Hour 6 Hour	24 Hour 48 Hour	72 Hour	96 Hour 1 Week 2 Week		
*For RUSH TAT's Please	Call Ahead to Confirm Lab Ho	ours and Availability. Not	all TAT options are valid for every test.		
Materials Science and	IAQ TATs are in Business Day	s rather than Hours (i.e.	24 Hour = End of Next Business Day)		
	As	sbestos			
PCM - Air	PLM - Bulk		TEM - Bulk		
NIOSH 7400	PLM EPA 600/R-93/		TEM EPA NOB		
w/ 8hr. TWA	PLM EPA NOB (<1%		NYS NOB 198.4 (non-friable-NY)		
TEM- Air 4-4.5hr TAT(AHERA ONLY) AHERA 40 CFR, Part 763	NYS 198.1 (friable-N NYS 198.6 (non-friab		Chatfield SOP Soil/Rock/Vermiculite		
NIOSH 7402	Point Count 400 (<0				
EPA Level II	Point Count w/ Gravime	,	PLM CARB 435 – B (0.1% sensitivity)		
ISO 10312		.25%) 1000 (<0.1%			
TEM - Water	TEM - Dust		EPA Reg. 1 Screening Protocol (Qualitative)		
Fibers > 10 µm Waste Drinking	Microvac – ASTM D	5755	Other:		
All Fiber Sizes Waste Drinking	Wipe-ASTM D6480				
	Lead (Pb)		Materials Science		
Flame Atomic Absorption		ICP	Common Particle ID (large particles)		
Chips SW846-7000B or AOAC 974		300 Modified	Full Particle ID (environmental dust)		
Soil SW846-7000B/7420		lipe SW846-6010B or	C Basic Material ID (solids) Advanced Material ID		
Air NIOSH 7082 Wastewater SM3111B or SW846-700		SW846-6010B or C -6010 B or C	Physical Testing (Tensile, Compression)		
ASTM Wipe SW846-7000B/7420					
non ASTM Wipe SW846-7000B/74	20 Waste Wate	r SW846-6010B or C	Combustion-by-products (soot, char, etc.)		
TCLP SW846-1311/7420/SM 3111		6-6010B or C	X-Ray Fluorescence (elem. analysis)		
Graphite Furnace Atomic A		er:	X-Ray Diffraction (Crystalline Part.)		
	ter EPA 200.9		MMVF's (Fibrous glass, RCF's)		
	Water EPA 200.9		Particle Size (sieve/microscopy/laser)		
	/licrobiology		Combustible Dust		
Wipe and Bulk Samples	Air Samples		Petrographic Examination		
Mold & Fungi – Direct Examination			Other:		
Mold & Fungi Culture (Genus Only)	Mold & Fungi Cult	ture (Genus Only)	IAQ		
Mold & Fungi Culture (Genus & Species			Nuisance Dust NIOSH 0500 0600		
Bacterial Count & ID (Up to Three Type	s) Bacterial Culture & I	D (Up to Three Types)	Airborne Dust PM10 TSP		
Bacterial Count & ID (Up to Five Types)	Bacterial Culture & I	D (Up to Five Types)	Silica Analysis: All Species		
MRSA	Endotoxin Testing		Silica Analysis – Single Species		
Pseudomonas aeruginosa		ee Analytical Guide for C			
Water Samples	Code:		HVAC Efficiency		
Total Coliform & E.coli (P/A)	Legionella	Carbon Black			
Fecal Coliform (SM 9222D)		Level 3 Level 4	Airborne Oil Mist		
Sewage Screen	Other:		Radon Testing: Call for Kit and COC		
Heterotrophic Plate Count (SM 921			Other:		
**Comments/Special Instructions	S:				
Client Sample #'s -			Total # of Samples:		
2/1	+ 100 11				
Relinquished (Client): Tellals	ton Date: 4/18	11 1	Time: 17, 0		
Received (Lab):	Date:	4/19/18	Time: 10:20 fr Grise to		

Analysis Completed in Accordance with EMSL's Terms and Conditions located in the Analytical Price Guide

Controlled Document-OneChain-R3-11/8/2011

OrderID: 201804155



Chain of Custody
EMSL Order Number (Lab Use Only):

PHONE: FAX:

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
4200-TC4-1	Sample Description Then out Building	= 1 Pound	
	7.3		
			*
		- 4	
			THE TANK
7.7/3		- Walter - Trans	
- 1			
		1,-	
*Comments/Special Inst	ructions:		

Analysis Completed in Accordance with EMSL's Terms and Conditions located in the Analytical Price Guide



6b. Asbestos Abatement Project Design



Industrial Hygiene, Safety & Environmental Services

(Version 1, 11/30/18)

ASBESTOS ABATEMENT PROJECT DESIGN

SINGLE FAMILY RESIDENCE ABATEMENT PROJECT

4600 CLAYTON STREET DENVER, COLORADO 80216

PREPARED FOR:

JKS Industries, LLC 747 Sheridan Blvd., #9A Lakewood, Colorado 80214

November 30, 2018

FEI Project Number: AS18207-12

Prepared By: Nicolas D. Vasquez, CDPHE Cert #22566 Foothills Environmental

> Foothills Environmental, Inc. 11099 W. 8th Ave. Lakewood, Colorado 80215 Phone: 303-232-2660

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APPENDIX A – Drawings

APPENDIX B – Certificates

1.0 Scope of Work

1.1 Materials Identified for Removal

The General Abatement Contractor (GAC) will be performing the removal of asbestos containing material(s) as indicated in the table below. This information was gathered from the inspection report prepared by All-Phase Environmental Consultants (APEC) dated June 16, 2018. A copy of the Inspection and this Project Design will be available onsite during the course of the project. The total amount of actual asbestos containing material to be removed on this project is estimated to be greater than 160 sf/260 lf or the equivalent of a 55 gallon drum.

The following ACM was identified for removal prior to demolition:

Sample Name	Sample Location	Lab Results/ Asbestos Type	Detection Method(s)	Condition	Material Description	Material Location	NESHAP Classification	Estimated Quantity (Sq. ft.)
4600CL-R3-4B	ROOM 3	Floor Tile	PLM	Good	Flooring/Floor Tile	Bottom Layer Flooring in rooms 3,4 & 5	Cat (338
4600CL-R3-4A	Homogeneous to Sample - 4600CL-R3-4B							
4600CL-R10-7A	ROOM 10	DUCT WRAP 55% Chrystolite	PLM	Good	DUCT WRAP	Supply duct registers in rooms 3 & 6-can be seen in room 10 (basement		10
4600CL-R10-7B		DUCT WRAP 60% Chrystolite	PLM	Good				
ND=Non-Detect PLM=Polarized Light NA=Not Applicable	Microscopy							
RACM=Regulated As	bestos Contain	ing Materials	4					

Regulatory asbestos abatement notification and permit from the Colorado Department of Public Health and Environment (CDPHE) will be required for this project.

1.2 Schedule

The following schedule has been proposed for the project. Phasing and dates are included in Section 1.3, Sequence of Work.

Project Start Date: December 10, 2018

Project Completion Date: December 21, 2018

1.3 Sequence of Work

The following phasing plan has been developed for the abatement. This plan was submitted with the permit application which corresponds to the drawing attached in Appendix A.

• Phase 1 Start: December 10, 2018

Finish: December 21, 2018

Abatement of ACM vent wrap and ACM floor tile in all designated areas will be completed in one secondary containment.

1.4 Discussion of Removal Methods

All friable asbestos-containing vent wrap and non-friable asbestos containing floor tile, as well as asbestos contaminated materials that are located in the work area shall be removed from their installed locations inside a secondary containment and by utilizing wet removal methods and a combination of handheld tools. All friable asbestos-containing vent wrap will be removed via facility component removal methods.

Waste generated during removal will be gathered wrapped with 6ml thick polyethylene sheeting while wet. Work will be accomplished using CDPHE certified supervisors and workers.

Work completion includes preparation of the work area, pre-clean activities, removal and disposal of all specified ACM from the premises, final cleaning of the work area, final visual inspection, lockdown, and final clearance monitoring. The project will be considered complete when all containments and work areas have passed clearance criteria.

The following types of containments will be used during the project followed by procedures for setup and dismantling:

Secondary Containments

The GAC shall conduct abatement activities in accordance with CDPHE Regulation No. 8 in the following mandatory sequence for secondary containment:

- 1) Install critical barriers (pursuant to subsection III.I, Critical Barrier Installation)
- 2) Establish negative pressure (pursuant to Regulation No. 8 subsection III.J, Air Cleaning and Negative Pressure Requirements)

Note: The removal of non-ACM building materials and components may only take place after negative air pressure is established in the containment work area(s).

- 3) Construct the decontamination area (pursuant to subsection III.K, Decontamination Area)
- 4) Pre-clean surfaces (pursuant to subsection III.L, Pre-cleaning of Surfaces)
- 5) Cover fixed objects (pursuant to subsection III.M, Covering Fixed Objects)
- 6) Construct the containment (pursuant to subsection III.N.4, Secondary Containment)
- 7) Conduct abatement (pursuant to subsection III.V.2, Facility Component Removal and subsection III.S.1 Resilient Floor Tile and Sheet Vinyl Flooring)
- 8) Conduct final visual inspection (pursuant to paragraph III.P.1., Final Visual Inspection)
- 9) Conduct final clearance air monitoring (pursuant to paragraph III.P.3., Final Clearance Air Monitoring)
- 10) Conduct the tear-down (pursuant to subsection III.Q., Tear-down)

Floor tiles and vent wrap will be removed by using Secondary Containments (modified number of layers of walls and ceilings, negative pressure, airtight barriers, and decontamination units adjacent to each work area). If mechanical means are used for removal of flooring, then procedures must resort to Regulation No. 8 requirements for friable ACM removal. The following procedures will be utilized for removal using secondary containments:

- Work will be performed using critical barriers, secondary containment and negative air flow through a HEPA filter vented to the exterior. Each work area will be secured against entry by any unauthorized or untrained person throughout the Work. Warning signs will be posted and temporary barricades erected.
- Contractor will confirm negative pressure can be maintained prior to start of abatement.
- VAT and mastic may be located under carpeting or other non-asbestos materials. Note: Overlying non-asbestos materials may be removed as non-asbestos debris as long as the underlying asbestos materials are not attached during removal.
- VAT will be removed so that it does not become friable during removal. Floor tiles will be removed without breakage and placed in disposal bags. Work area will be misted continuously with amended water whenever necessary to reduce airborne fiber counts. Excess water will be controlled, so that leakage does not occur to underlying materials and floors.
- Removal of VAT will be performed with wet methods, spud bars and hand scrapers. Heating and/or the application of dry ice may be used also. Power tools, grinders or other machines that may produce dust during removal of VAT will not be allowed.
- Vinyl asbestos floor tile will be removed down to existing floor with minimal damage to the floor. No sanding or dry scraping is allowed.
- Floor mastic will remain in the building for demolition.
- If floor mastic is removed in any area, solvents may be used to remove mastic but odors shall not cause adverse effects to workers or occupants. The Contractor will utilize the solvent in accordance with all manufacturer guidelines and OSHA regulations. IH representative for GSA must review Safety Data Sheets (SDS) for solvent materials prior to use. Floors will be washed with soap and water after use of solvents. If solvents cause adverse impact to occupants or workers, then the type of solvent shall be changed or discontinued.

Clean the entire floor using a wet/dry vacuum cleaner equipped with a HEPA filtration system. Do not sweep. After removal of VAT, proceed with decontamination and final inspection and clearance testing of the Work Area according to Sections 3.13 and 3.14.

All waste from the project will be packaged in approved containers and transferred to an approved landfill for disposal. After successful air clearance of each containment the containment can be removed and all non-reusable containment materials will be packaged for disposal.

2.0 Special Conditions

2.1 Regulatory Notification and Variances

The General Abatement Contractor, (GAC) will make any required notifications to Federal and State entities regulating their work as required by applicable rules, regulations, and standards. This includes, but is not limited, to the National Emission Standards for Hazardous

Air Pollutants (NESHAP) notification [notice provided to the Colorado Department of Public Health and Environment (CDPHE) with permit application]. The abatement contractor is responsible for quantifying amounts of ACM necessary to properly complete the project.

2.2 Project Manager Requirement

Colorado Regulation No. 8 requires a Project Manager on all asbestos abatement projects in which the amount of friable ACM to be abated exceeds 1,000 linear feet on pipes, or 3,000 square feet on other surfaces. A Project Manager may be required for this project, unless a waiver is requested and granted by CDPHE.

2.3 Facility Occupancy Status

During abatement activities the building will not be occupied by the former tenants but may be visited by owner personnel as well as other tradesmen.

2.4 Site Security

Entry to the regulated asbestos work area is by permission only to authorized personnel. The perimeter of the work area may be monitored during abatement by a certified Air Monitoring Specialist (AMS). Only asbestos certified/licensed personnel employed by the GAC or federal or state regulatory agency personnel and the AMS will be allowed access to the work area. A logbook will be maintained at the entrance to the work area. Everyone who enters the work area must record name, affiliation, time in and time out for each entry.

2.5 Field Changes

Minor modifications to the project design are allowed. Minor changes include but are not limited to, relocation of negative air machines, decontamination facility and waste load-out. Any modifications to the project design must be approved by the Project Designer before the changes are made.

3.0 Project Design

3.1 Standards and Primacy of Rules

The following standards will be adopted as they pertain to asbestos abatement. In any instance where adopted standards are in conflict with each other, the most stringent shall apply.

- 1) Colorado Department of Public Health and Environment Regulation #8
- 2) 5CCR 1000-10 Part B asbestos handling, transportation, and storage
- 3) 29 CFR 1926.1101, the OSHA Construction Industry Asbestos Standard
- 4) 40 CFR 61 Subpart M, EPA's NESHAP Asbestos Standard
- 5) NIOSH/OSHA/EPA –"Occupational; Safety & Health Guidance Manual for Hazardous Waste Site Activities", Section 8-20; Heat Stress and Other Physiological Factors.
- 6) All other applicable laws, rules, and regulations, including but not limited to those relating to:
- 7 Workers' Compensation Insurance;
- 8 Liability Insurance
- 9 All contract specifications, drawings, and documentation

3.2 Site Access

The GAC has access to the facility for the purpose of abatement from 6:30 AM to 5:00 PM until project completion which is projected to be 12/21/18.

3.3 Utilities Service

Access to electrical power, water and sanitary sewer is not available inside the facility. The contractor will provide utility services during the duration of the project. Any temporary utility lines running to the regulated asbestos work area shall be adequately protected from damage and abrasion from vehicle and foot traffic. All waste water shall be filtered to five (5) microns prior to discharge into a sanitary sewer.

GAC will have to provide temporary restrooms located close to the project site at approved locations for the duration of the project (to be placed in a protected area if possible).

3.4 Decontamination Facilities & Load-Out Facilities

Personnel decontamination facilities shall consist of an Equipment (Dirty) Room, Shower, and a clean room constructed in accordance with Regulation #8 III.K Decontamination Unit.

All load-out and disposal procedures shall be in accordance with applicable federal, state, and local regulations and project specifications. Construction shall consist of a minimum of two separate chambers separated by airlocks.

For Secondary containments, personnel decontamination facilities shall consist of a minimum of two separate chambers separated by airlocks directly adjacent to the secondary containment. The first chamber shall contain a HEPA vacuum for decontaminating protective clothing before doffing and disposing of it in a standard asbestos waste bag.

3.5 Pre-Cleaning

Pre-cleaning activities will be performed in accordance with CDPHE Regulation 8. All workers performing pre-cleaning must utilize HEPA equipped vacuums and wet methods. Any prepping activities that will contact non-friable ACM, or be within arms' reach of friable ACM must be accomplished by workers utilizing PPE.

3.6 Critical Barriers

All critical barriers will consist of a minimum 1 layer of 6mil poly critical barrier on all, openings, and vents.

3.7 Negative Pressure Ventilation

The GAC shall maintain a negative pressure differential of -0.02 inches of water in the work areas in accordance with Regulation #8 III.J Air cleaning and Negative Pressure Requirements, until final visual and clearance air monitoring complete. The calculations in the next section take into account at least 1 backup Negative Air Machine (NAM) with HEPA filtration. The contractor will also be using generators for maintaining electrical supply. In the case of generator failure, all workers will leave the work area and seal the containment. A replacement generator will be available onsite or within an hour's time of the project for use in case of failure. Work will resume when negative pressure is restored. If negative pressure is not restored within an hour's time alternate means of electrical supply will be sought. If no supply is available, contractor will contact CDPHE and follow directions for spill response.

3.8 Air Exchange Calculations

AIR CHANGE CALCULATIONS for a 2000 cfm negative air machine (NAM)

AIR CHANGES =
$$A$$
 Where: $A = Work$ area volume in cubic feet $(l \times w \times h)$ $B = 15$ minutes $C = Estimated$ rated capacity of NAM $(1,500 \text{ cfm})$

Phase 1 – Vent Wrap and Floor Tiles (Secondary Containment 1)

$$A = 12 \times 10 \times 9 = 1080$$
 cubic feet
 $B \times C = 22,500$ $= 0.05$ 1 NAM required
2 NAM's recommended

Note: Containment has several dead spaces where there is no air movement. Therefore an extra NAM is recommended to improve air movement in the containment. See containment configurations on drawings.

3.9 Containment Construction

Containments for the asbestos removal shall be constructed in accordance with CDPHE Regulation 8 and this project design. Danger signs will be posted at ingress locations, and approaches to locations, where airborne concentrations of asbestos exceed or can reasonably be expected to exceed the PEL. Signs will be posted at a distance sufficiently far from the work area to permit an employee to read the sign and take the necessary protective measures to avoid exposure. Additional signs may need to be posted following construction of workplace containment barriers.

Danger signs will include the following wording:

DANGER
ASBESTOS
CANCER AND LUNG DISEASE HAZARD
AUTHORIZED PERSONNEL ONLY
RESPIRATORS AND PROTECTIVE CLOTHING ARE REQUIRED IN THIS AREA

3.10 Set up of work areas

Containment Components

2"x 4"s wood studding can be used as temporary framing to support any containment systems; this may include tie wires also where needed. 1 layer of 10 mil re-enforced poly sheeting will be utilized for any exterior critical barriers, negative air machines will be installed once the poly sheeting is installed. A full 3 stage decontamination unit equipped with hot and cold water, shampoo, disposable towels, and a 2 stage water filtration unit filter all water to 5 micron, prior to being discharged into the sanitary sewer system shall be used. View ports

will be installed where appropriate with a minimum of 12" x 12" Plexi™ glass and or exterior windows.

Air flow testing utilizing smoke tubes will be performed to validate air flow direction and air exchanges.

3.11 Asbestos Removal

Removal of materials containing asbestos and contaminated with asbestos shall be performed in accordance with the Colorado Department of Public Health and Environment Regulation 8 III, Abatement, Renovation and Demolition Projects and this project design.

3.12 Asbestos Spill Response

In the event of a spill or a breach of the regulated work area containment, follow procedures in Section III.T. of Regulation No. 8, which includes cleaning the area outside the regulated work area. Visible debris shall be cleaned utilizing <u>HEPA vacuuming</u> and wet wiping plus an additional 10 horizontal feet beyond the visible debris. All filters, mop heads, and cloths utilized during clean-up activities shall disposed of as asbestos contaminated waste in leak tight containers.

The GAC shall have available, equipment and supplies (HEPA filtered vacuum, airless sprayer with amended water, mops, rags, polyethylene sheeting, duct tape, caution tape...) for spill response in the event of accidental spill of materials containing asbestos.

In the event of an asbestos spill outside the work area containment the GAC shall:

- Make appropriate notices based on size of spill.
- Immediately wet the spilled material and surrounding area with the airless sprayer.
- Restrict access to the spill area and post warning signs to prevent entry to the area by persons other than those necessary to respond to the incident.
- Seal all openings between the contaminated and uncontaminated areas as directed by the asbestos consultant. This is to be accomplished by using polyethylene sheeting and tape.
- HEPA vacuum and wet clean all surfaces in the contaminated area.

Following completion of the above, the on sight Air Monitoring Specialist shall conduct a visual assessment of the spill area to confirm adequate cleaning has been accomplished by the GAC.

3.13 Asbestos Waste Transportation, Storage, and Disposal

All ACM waste must be wrapped in two layers of 6 mil polyethylene sheeting or double-bagged in 6 mil polyethylene bags labeled with the appropriate OSHA label for asbestos and must also bear the generator label as required by EPA's 40 CFR 61 Subpart M NESHAP Standard. Containerizing and transport of asbestos wastes shall be in accordance with applicable federal and state regulations.

The existing installed building components shall be protected from damage to the extent that they remain structurally sound by the GAC, until completion of all work.

Safety scaffolding, rubbish skips, access ladders etc. shall be approved by the client and in accordance with the current Health and Safety regulations.

GAC workers will not drag or drop packaged waste. All waste equipment and materials will be hand carried, or transported in wheeled carts to waste transport vehicles.

All packaged asbestos waste shall be directly loaded from the work area onto a 6mil polyethylene lined enclosed truck or dumpster container for disposal. No waste material may be temporally stored in the building or the work area containment.

Waste Disposal:

All waste containers shall be transported from the permitted work areas to an approved disposal land fill by the GAC (Denver Aurora Disposal Site).

Waste Transporter:

By 5280 Waste Solutions.

3.14 Final Clean/Final Visual Inspection Criteria

All interior surfaces of the work area will be free of visible dust and debris. The work area must pass a final visual inspection by a CDPHE Certified Air Monitoring Specialist (AMS) leaving only critical barriers in place.

3.15 Final Air Clearance Monitoring

Clearance criteria for this containment shall be in accordance with CDPHE Regulation #8, Section III.P

	State-Permitted Project in			
For each work area within the project	Non-School Building			
where the amount of ACM is:	Minimum # of samples to			
where the amount of ACM is.	clear each of the following:			
	Work Area	Project		
Less than 3 square feet/3 linear feet	1	5		
From 3 square feet/3 linear feet up to 32 square feet/50	2	5		
linear feet/volume equivalent of a 55-gallon drum	2	3		
Greater than 32 square feet/50 linear feet/volume equivalent				
of a 55-gallon drum up to 160 square feet/260 linear	5	5		
feet/volume equivalent of a 55-gallon drum				
Greater than 160 square feet/260 linear feet/volume	5	5		
equivalent of a 55- gallon drum	3	3		

If any samples collected for the final air test exceeds (0.01 fibers per cubic centimeter, 0.01 f/cm³ for PCM using the NIOSH Method 7400 or 70 structures per square millimeter (70 s/mm²) as analyzed by the TEM method in 40 C.F.R. Part 763 Appendix A to Subpart E (EPA 1995) the entire work area shall be re-cleaned immediately upon receipt of air test results.

Any failed abatement work area shall be re-tested and undergo Final Visual Inspection and Final Clearance Air Monitoring again. Upon notification that clearance monitoring levels are acceptable, the GAC may remove critical barriers and demobilize from the work area.

3.16 Personal Exposure Air Monitoring

The GAC shall be responsible for conducting personal exposure air-monitoring as applicable in accordance with OSHA 29 CFR 1926.1101 Asbestos Construction Standard. Contractor to supply results to personnel and will post results onsite. (See Section 3.20 for Respiratory Protection).

3.17 Electrical Hazards Control

All electrical power utilized during the project will be on ground fault circuit interrupters (GFCI) whose power source is located outside the work area.

3.18 Emergency Egress and Fire Protection

The abatement contractor shall abide by the emergency egress rules for the facility. All contractor personnel shall receive emergency procedure orientation specific to the facility prior to initiation of abatement activities.

3.19 Fire Protection Plan

- 1. No items capable of initiating or sustaining combustion (lighters, matches, torches, etc.) will be allowed in containment.
- 2. The use of flammable liquids is not permitted.
- 3. Any electricity utilized must be on Ground Fault Circuit Interrupters (GFCI).
- 4. A minimum of one, 2A: 20B: C rated fire extinguishers will be maintained on-site. There must be available at least one 2A: 20B: C rated fire extinguisher within a maximum travel distance of 10 feet from any point in the work area.
- 5. Workers will be trained in the use of fire extinguishers, emergency egress plans, basic fire safety, and emergency reporting procedures prior to work beginning.
- 6. All emergency exits will be labeled as such with tools available for breaching poly and keys in door locks where necessary.
- 7. The Contractor must implement an emergency action and fire prevention plan in accordance with 29 CFR 1910.38 Employee emergency plans and fire prevention plans.

3.20 Fall Protection

The GAC shall provide proper fall protection and training for their employees when working above 6 feet of height in accordance with Occupational Safety and Health Administration 29 CFR Part 1926 Subpart M Fall Protection.

3.21 Respiratory Protection / PPE

The GAC shall provide proper respiratory protection for their employees with NIOSH approved HEPA filters during all pre-clean, abatement removal, waste load out procedures and during waste lift operations for effected employees. The GAC shall provide proof of medical fitness to wear respiratory protection and current fit testing documentation for all employees.

3.22 Work Area Protection

The GAC shall repair or replace, to the Owner's satisfaction, any damage caused by the GAC or GAC subcontractors, to existing finishes, landscaping, or other building components.

3.23 Additional PPE

- Hooded Tyvek suits
- Safety Glasses with side shields (exception not required when wearing a full face respirator).
- Leather Gloves
- Safety toe boots
- Fall Protection as required.
- PPE per MSDS / SDS requirements.

3.24 Pre-Abatement Document Submittal

The GAC shall provide the following submittals to the Owner's Asbestos Competent Person / Safety Department for approval prior to site mobilization.

- ✓ Copies of all worker AHERA / STATE certifications.
- ✓ Copies of all worker asbestos medical evaluations.
- ✓ Copies of all worker respirator fit tests.
- ✓ Copies of MSDS for all chemicals (spray-glue, encapsulant, surfactant etc.) that will be used
- ✓ Asbestos waste receipt / total.

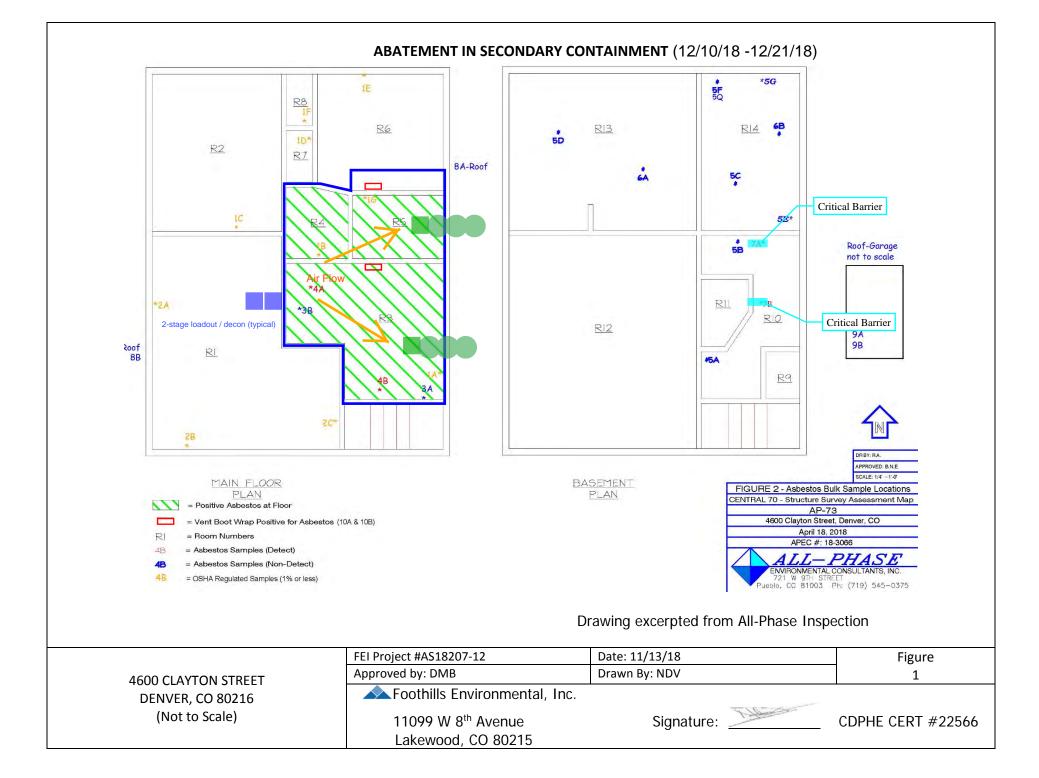
Completed by:

Nicolas D. Vasquez CDPHE Asbestos Project Designer Certificate # 22566

Foothills Environmental Asbestos Consulting Firm CDPHE Registration # 14925

Appendix A

Drawings



Appendix B

Certificates





Colorado Department of Public Health and Environment

ASBESTOS CERTIFICATION*

This certifies that

Nicolas Vasquez

Certification No.: 22566

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:

Project Designer*

Issued:

February 08, 2018

Expires:

February 08, 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



CHC Training Nationwide Training & Certification Experts

www.trainingchc.com 303.412.6360 (855) 60.CERTIFY 1775 West 55th Avenue Denver, CO 80221, United States of America

CERTIFICATE OF ACHIEVEMENT

This certificate is awarded to:

NICOLAS VASQUEZ

In recognition of satisfactory completion of the EPA-approved annual asbestos refresher training course under section 206 of the Toxic Substance Control Act (TSCA) and Colorado Regulation No. 8 entitled

PROJECT DESIGNER

COURSE DATE:

EXPIRATION DATE:

Course Hours:

DECEMBER 21, 2017
DECEMBER 21, 2018

8.0

Verify Credential



Danaya N. Benedetto

Co-Founder & CEO Training Program Manager

Credential License ID: 11084750



Frank Hulce

Instructor

CHC Training Certificate No. R17-2200-APD-CO

Visit our Website





6c. Pre-Demolition Engineering Survey



Pre-Demolition Survey And General Demolition Plan For 4600 Clayton Street Denver, CO 80216



Engineers: David A. Poe, P.E., S.E. Glen L. Wilson, E.I.

June 28, 2018 Project No: 180113



June 28, 2018

Stephen P. Di Nardo JKS Industries, LLC 747 Sheridan Blvd #9A Lakewood, CO 80214

Re:

4600 Clayton Street, Denver, CO 80216

Pre-Demolition Engineering Survey per OSHA 1926.850(a)

And General Demolition Plan

Date of Observation:

06/26/18

Dear Mr. Di Nardo:

At the request of JKS Industries (JKS), a representative from Anchor Engineering, Inc. (AEI) performed a site observation at the above-referenced structure on Tuesday, June 26, 2018.

For the purpose of this report, there are two buildings on the property. The front elevation of the residence faces west and is parallel to Clayton Street. There is a detached garage at the northeast corner of the property adjacent to the alley. At the time of our visit the buildings were vacant.

The purpose of our site visit was twofold:

- To give an assessment of the current condition of the structure as it relates to structurally related hazards before the proposed demolition activities. OSHA 1926.850 is stated below, along with project specific applicability to the subject building.
 - a. <u>OSHA 1926.850(a):</u> Prior to permitting employees to start demolition operations, an engineering survey shall be made, by a competent person, of the structure to determine the condition of the framing, floors, and walls, and possibility of unplanned collapse of any portion of the structure. Any adjacent structure where employees may be exposed shall also be similarly checked. The employer shall have in writing evidence that such a survey has been performed.
 - <u>Project Specific Applicability:</u> The information contained in this report satisfies the requirement of this guideline. The subcontractor shall review this report and make a copy available to all employees on the project at the pre-project meeting, and it shall also be included in the job site books.
 - b. <u>OSHA 1926.85(b):</u> When employees are required to work within a structure to be demolished which has been damaged by fire, flood, explosion, or other cause, the walls or floor shall be shored or braced.
 - <u>Project Specific Applicability:</u> 4600 Clayton Street, Denver, CO 80216 has not been damaged by any fire, flood, explosion, or any other event. Therefore, no shoring or bracing is required.
 - c. <u>OSHA 1926.850(c):</u> All electric, gas, water, steam, sewer, and other service lines shall be shut off, capped, or otherwise controlled, outside the building line before demolition work is started. In each case, any utility company which is involved shall be notified in advance.

<u>Project Specific Applicability:</u> The contractor and subcontractor will ensure all electric, gas, water, steam, sewer, and other services are to be cut off prior to any work being performed. Contractor shall confirm with KMP through the pre-demolition check list and present the necessary information in the pre-demolition meetings.



d. <u>OSHA 1926.850(d):</u> If it is necessary to maintain any power, water or other utilities during demolition, such lines shall be temporarily relocated, as necessary, and protected.

<u>Project Specific Applicability:</u> The demolition of 4600 Clayton Street, Denver, CO 80216 does not require any power, water or other utilities.

e. <u>OSHA 1926.850(e):</u> It shall also be determined if any type of hazardous chemicals, gases, explosives, flammable materials, or similarly dangerous substances have been used in any pipes, tanks, or other equipment on the property. When the presence of any such substances is apparent or suspected, testing and purging shall be performed and the hazard eliminated before demolition is started.

<u>Project Specific Applicability:</u> All types of hazardous chemicals, gases, explosives, flammable materials, or other dangerous substances shall be removed from the structure prior to demolition as part of the pre cleaning phase during the environmental remediation. All materials are to be documented, manifested, and included in the environmental close out documents.

f. OSHA 1926.850(f): Where a hazard exists from fragmentation of glass, such hazards shall be removed.

<u>Project Specific Applicability:</u> All hazards from fragmentation of glass shall be removed in the normal course of demolition.

g. <u>OSHA 1926.850(g):</u> Where a hazard exists to employees falling through wall openings, the opening shall be protected to a height of approximately 42 inches.

<u>Project Specific Applicability:</u> No employees are permitted to enter the structure once demolition begins. Rule applies to interior demolition.

h. OSHA 1926.850(h): When debris is dropped through holes in the floor without the use of chutes, the area onto which the material is dropped shall be completely enclosed with barricades not less than 42 inches high and not less than 6 feet back from the projected edge of the opening above. Signs, warning of the hazard of falling materials, shall be posted at each level. Removal shall not be permitted in this lower area until debris handling ceases above.

<u>Project Specific Applicability:</u> No employees are permitted to enter the structure once demolition begins. Rule applies to interior demolition.

i. OSHA 1926.850(i): All floor openings, not used as material drops, shall be covered over with material substantial enough to support the weight of any load which may be imposed. Such material shall be properly secured to prevent its accidental movement.

<u>Project Specific Applicability:</u> The building is a single story structure. Refer to the demolition sequencing section of this report for further information.

OSHA 1926.850(j): Except for the cutting of holes in floors for chutes, holes through which to drop materials, preparation of storage space, and similar necessary preparatory work, the demolition of exterior walls and floor construction shall begin at the top of the structure and proceed downward. Each story of exterior wall and floor construction shall be removed and dropped into the storage space before commencing the removal of exterior walls and floors in the story next below.

<u>Project Specific Applicability:</u> The building is a single story structure. Refer to the demolition sequencing section of this report for further information.



j. <u>1926.850(k):</u> Employee entrances to multistory structures being demolished shall be completely protected by sidewalk sheds or canopies, or both, providing protection from the face of the building for a minimum of 8 feet. All such canopies shall be at least 2 feet wider than the building entrances or openings (1 foot wider on each side thereof), and shall be capable of sustaining a load of 150 pounds per square foot.

<u>Project Specific Applicability:</u> Not applicable. Building is a single story structure. No employees are permitted to enter the structure once demolition begins.

2. Provide a general outline of the demolition procedures and sequence that is proposed to be used in the demolition of the subject structure. These outlined procedures/sequences are subject to change by AEI and/or the demolition contractor based on the observed response of the structure overall and components thereof during actual demolition operations.

No architectural or structural drawings were provided for our review.

The residence is a single-story residential structure and is assumed to be founded on a spread footings. The structure has a full basement with concrete foundation walls and an assumed concrete slab on grade floor. The residence is approximately 24'x30' with the long direction oriented north to south. The wall and roof framing is assumed to be composed of dimension lumber framing. The detached garage is approximately 12'x20' with the long direction oriented north to south. It is a wood-framed structure on a concrete foundation with a slab on grade floor.

Existing Condition Observation

During our site visit we made visual observations around the building perimeters only. The structures were partially exposed in some areas. All of the existing structural systems that were exposed to view appeared to be in good condition. We saw no evidence of noteworthy structural distress. It is our professional opinion that the possibility of un-planned collapse of any portion of the existing structures is very low. Workers may be allowed in the buildings to prepare them for demolition with such activities as removal of materials or other work that does not involve activities that affect existing structural systems.

Outline of Proposed Demolition Procedures, Equipment, and Sequence

Equipment

We anticipate demolition for this structure to be completed with heavy equipment including:

- "Track-hoe" excavators capable of reaching structural elements to be demolished. Excavators may be equipped at times with buckets/grapples, hydraulically actuated demolition hammers or shears, and other custom extensions for demolition and/or holding elements for temporary stability.
- Small skid steer loaders may also be utilized from time to time during demolition

Demolition Sequencing

General

After the commencement of demolition with heavy equipment, by necessity, structural systems from this point forth will be destroyed. Demolition should proceed as fast as practical until the structure is demolished in its entirety. The lateral stability of the buildings are provided by the perimeter wood-framed walls.

During demolition operations, care must be taken to protect and prevent damage to any active or live utilities both above and below ground.

During demolition, water will be used to wet down the area that is being demolished prior to starting the demolition. During the demolition process a water spray will be used to minimize the fugitive particulate matter emissions. The ground will be sprayed with water either by water truck or some type of water spray to minimize fugitive particulate emissions from haul trucks and demolition equipment.



Sequence

The residence superstructure may be collapsed into the basement starting at the south side of the building and proceeding thru the length of the building to the north. Do not drive equipment onto the footprint of the building until the structure has been collapsed. The detached garage shall be demolished starting from the south side and proceeding to the north. The alley will require temporary closure during demolition procedures to prevent public endangerment. The north and east sides of the garage are in close proximity to the north and east property lines. The property located to the north is also scheduled for demolition. The property is bordered on the south by the North Vasquez Boulevard Frontage Road. A partial temporary closure of the North Vasquez Boulevard Frontage Road may be required during demolition procedures to prevent public endangerment. Once the roof, wall, and floor systems are demolished, the slab on grade and foundations can be removed in any sequence.

Closing

This report constitutes an engineering review and summary of the pre-demolition condition of the structural systems of the subject buildings as well as a general outline of demolition procedures and sequencing. Note that the conclusions drawn are based on visual observations and our expertise and experience with structural engineering of building structures. Unless noted otherwise, no non-destructive or destructive testing of any kind was performed, nor was any formal engineering analysis completed. These procedures/sequences outlined herein are subject to change by AEI and/or the demolition contractor based on the observed response of the structure overall and components thereof during actual demolition operations. Anchor Engineering, Inc. shall be held harmless for damage of any kind to surrounding structures or property or for injury of any kind to any person or persons. The demolition contractor is responsible for jobsite safety. The conclusions presented in this report are based on conditions noted at the time of the observation. Commentary or recommendations regarding environmental issues are beyond the scope of this report. Should questions arise, or if further information is required regarding the content of this report, please contact our office.

Sincerely, Anchor Engineering, Inc.

Reviewed By

Glen L. Wilson, E.I. Design Engineer

David A. Poe, P.E., S.E.

Principal



7. Asbestos Clearance Report



December 20, 2018

Interior Air Monitoring Clearance (Flooring/Vent Wrap)

Re: AP-73 4600 Clayton St. Denver, Colorado 80216

To Whom It May Concern:

On, December 19, 2018, Logan Greenfield, Colorado Certified Asbestos Building Inspector and Colorado Air Monitoring Specialist with All-Phase Environmental Consultants, Inc. (APEC), conducted Air Monitoring clearances at the above referenced Subject Property. A visual inspection and air samples were collected inside the abatement containment to ensure that the asbestos fiber counts are below the regulated standard to guarantee this area is safe to re-occupy.

The Containment Air clearance consisted of five (5) 0.08um sampling cassettes, five (5) 1-16 liter per minute pumps, along with Three (3) 20-inch box fans and a one-horse power leave blower used to perform an aggressive clearance of the containment. All-Phase Environmental is an approved and certified Colorado Department of Public Health and Environment asbestos laboratory.

Microscopic inspection of the above mentioned five samples were conducted in the All Phase Environmental PCM laboratory. This inspection verified that <u>ALL</u> the samples taken were at or below 0.01 fiber per cubic centimeter as required by the Colorado Department of Public Health and Environmental standard for a safe room or area. See Lab analytical results attached to this document.

Based on the visual inspection and the analytical results, this area is considered safe to re-occupy.

APEC will not be held responsible for the mishandling of the information contained herein, and/or any items found after December 19, 2018.

Please feel free to call with any questions and or concerns.

Sincerely,

Logan Greenfield

Colorado Certified Asbestos Inspector and AMS - 20715

Afill



APEC Project No.:

Customer ID:

721 W. 9th Street Pueblo, CO 81003

http://www.allphaseenvironmental.com

ΔΙΗΔ 21/132/CDPHF ΔΙ-15979

, (III), (ZI 1132)	CDFTIL AL-13373						1
Attn:			Phone:				
			Email:				
			Received:				
			Analysis Date:				
Customer Projec	t Ref.:		Sample Date:				
Sample ID	Location	Volume (Liters)	Fibers	Fields	Fibers/mm ²	Fibers/cc	Type of Sample
The results reported	have been blank corrected	as applicable.					
Fiber Count by Phase	Contrast by Phase Contract	t Microscopy (PCM),	NIOSH 7400 Method,	Revision 3, Issu	ue 2, 8/15/94		
Analyst(s) Log	an Greenfield		Kutan	e Ka	lston		
, , , 108	J. Cociu		Richard Ralston,			1	

or other approved signatory

samples were anlayzed in accordance with NIOSH 7400 or OSHA ID-160 Methods by analysts successfully participating in the AIHA PAT program. APEC maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by APEC. APEC bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. The Client assumes full and complete responsibility for all uses and/or application sof this report. APEC makes no guarantee as to the nature or accuracy of sample collection. APEC is not responsible for data reported in fibers/cc, which is dependent on volume collected by non-laboratory personnel. Results have been blank corrected as applicable. Samples received in good condition

unless otherwise noted. Samples analyzed by APEC, Pueblo, CO.



Colorado Department of Public Health and Environment

ASBESTOS LABORATORY

This certifies that

All Phase Environmental Consultants, Inc.

Registration No.: AL - 24462

testing activities, as required by Regulation No 8, Part B, in the state of Colorado 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 laboratory

Issued: Ap

April 20, 2018

Expires: April 20, 2019

Authorized APCD Representative

SEA



8. Materials Summary



February 18, 2019

Megan Wood Kiewit Infrastructure Co. 160 Inverness Drive West, Suite 110 Englewood, CO 80112

RE: AP-73 4600 Clayton St. – Summary of Removed Materials

Dear Megan,

Below is a summary of the materials removed from 4600 Clayton St. For more details regarding the location of the Asbestos Containing Materials (ACM) and the asbestos content please refer to the Table 2 of the All-Phase Environmental SSAR (Page 16).

Material Removed	Quantity
Asbestos Containing Paper Duct Wrap	10 SF
Asbestos Containing VAT	338 SF
Clean Demolition Debris	478,800 lbs

If you have any questions or require further information regarding these quantities, please contact me at 303-238-0207.

Sincerely,

JKS Industries, LLC

Jeffrey Knight President



August 15, 2019 2019

Kyle Ziegler Kiewit Infrastructure Co. 3543 East 46th Ave. Denver, CO 80216

Re: AP-73 SSCR 4600 Clayton - RBM

Kyle,

This letter is in reference to the SSCR for AP-73 related to RBM inventory. JKS removed all the RBM's related to this property per the SSAR. The RBM's removed from this property were disposed of properly in accordance with the EPA regulations. At the time of RBM removal JKS staged RBM's from various properties at one location for pick up and disposal. JKS at the time did not do a thorough inventory of the RBM's for the aforementioned project.

The verification that all RBM's were removed during abatement and prior to demolition was demonstrated in the final visual inspection that was performed by All Phase Environmental. If there were still RBM's in the property at the time of the inspection by All Phase Environmental, JKS would have been notified and would have had to remove the RBM's prior to passing the final visual inspection. Which further demonstrates the RBM's were removed and were not demolished in the property.

The only failure in this matter is that JKS did not properly inventory and manifest the RBM's for this specific property, but JKS is confident that the RBM's were disposed of properly within the bulk RBM consolidation that was properly manifested and disposed of in accordance with the EPA regulations.

If you have any questions or require any further information regarding this letter, please contact me at 303-238-0207.

Thank you,

Jeffrey Knight President

JKS INDUSTRIES



9. Waste Manifests



9a. Asbestos Waste Manifests

	ASBESTOS NESHAP WAS			REC	ORD
A	1. Generator ID Number 2. Page 1 of 3. Emerg	gency Response Phone 800-424-9300	4. Waste	Tracking Nun	ber 2253287
	COLORADO DEPARTMENT OF TRANSPORTATION 747 SHERIDAN BLVD UNIT 9A LAKEWOOD CO 80214 Generator's Phone: (303) 512-5909	or's Project Address (if differ 13 O Clayton St. ver CO 80214	ent than mailing		
	6. Transporter 1: Complete Company Name and Address 5280 WISTE SoloTION				nsporter Phone
	7. Transporter 2: Complete Company Name and Address				nsporter Phone
	8. Designated Disposal Facility Name and Site Address DENVER ARAPAHOE DISPOSAL 3500 S GUN CLUB RD AURORA CO 80018 (720) 876-2620		Facility's Pl	none:	
	Waste Shipping Name, Description, & Profile Number	10. Containers No. Type	11. Total Quantity	12. Unit Wt./Vol.	
GENERATOR	1. RQ, NA 2212, Asbestos, 9,PG III 12677500	ito. Type	10		ONE
GENE	2.				
	13. Regulatory Agency: Colorado Department of Public Health and Environment 4300 Cherry Creek Drive South Denver, CO 80222-1530	CH	Emergency IEMTREC 4-hour Toll	(800) 424	4-9300
	15. Contractor/Generator Certification: I hereby declare that the contents of this consignment are fully and accurately describe packaged, marked and labeled/ placarded, and are in all respects in proper condition fo and state governmental regulations. I hereby certify that the above described waste is not a hazardous waste as defined by quantities of PCB's or radioactive materials.	r transportation and d	isposal acco	rding to ap	plicable national
V	Generator's/Offieror's Printed/Typed Name Signature				Month Day Year
٧	Min Steankamp on bodall + of doo7	100.			1218 201
ORTER	16. Transporter Acknowledgement of Receipt of Materials Transporter 1 Printed/Typed Name Signature				Month Day Year
TRANSPORTER	Transporter 2 Printed/Typed Name Signature	VIV			12 26 18 Month Day Year
A	17. Special Handling Instructions Soil originating from the above site shall not be used as daily cover or sold as cleaning the state of the state	ean fill.			
PACILITY -	18. Discrepancy Indication Space:			19. Tio	ket# 528 2726
DESIGNATED FACILITY	Initials of Person noting discrepancy Signature 20. Management Method/Location				Date
D	Landfill Monofill Location:				
	21. Designated Disposal facility Owner or Operator: Certification of receipt of materials covered by the manifest except Printed/Typed Name Signature	t as noted in Item 18			Month Day Year,
V	MINON				1/2/10/8



10. Weight Tickets



10a. Daily Load Trackers and Associated Truck Tickets



Daily Load Tracker

Date:

1-8-19

Project: AP 73

Prepared By: MARK KELLEY

1	Date:	10		-	110,000		Material			•	Dump Site Ticket
	Arrival Time		Departure Time		Load #	Truck #	Code	<u>Description</u>	Tons/Yards	<u>Dump Site</u>	Number
10	8:00	and/ pm	8:20	Yang / pm	1	575	TRASH	DEMO DEBRIS	18 YPS	DADS	
1	10:40	pm pm	11:00	amy pm	2	575	TRASK	DEMODEBRIS	18 705	DADS	
10	12:20	am (pm)	1:10	am //pip	3	575	TRASH	Demo Drans	18808	DAAS	
1	2:50	am (pm)	3:05	am /@m	4	575	TRACK	DEVO DEBREES	18 905	DARS	
	7:30	m/pm	8:00	am / pm	5	401	Trash	Damo DeBRIS	18 4DD	DADS	
	8:00	Ø/pm	8:20	am / pm	6	22	trash	Demo Debris	18 405	DA 05	
	8:25	am / pm	8:40	am / pm	7	575	Trash	Demo Debris	18405	0205	
	8:40	am / pm	8.35	am / pm	8		Trash	Demo Debris	187 DS	DAOS	
0	8:20	am/pm	8:40	am) pm	9	CH 575	trash	Deno debris	18403	Dods	
	9:50	am/ pm	10:05	am)/ pm	10	CH333	trash	Demo clibris	18 Jds	Dods	
	10:30	(am) pm	10:45	am / pm	1/	CH 575	trash	Demo debris	18 798	D>15	
	11:35	@m/pm	12:05	am (pm)	12	OH 333	trash	Demo clibris	18 1/25	Dads	
	12:30	am (pm)	12:45	am / (pm)	13	CH575	trash	Demo debny	18493	Dodg	
	3:20	am lon	3:35	am / 6m)	14	CH333	trash	Demo debris	18498	Dads	
	730	Gm / pm	745	am / pm	15	CH575	thashe	Deme debris	18 745	Dads	
	9:00	am/ pm	9:25	(apr/pm	16	CH575	Trash	Denio albas	18/13	Dids	
	11:45	(am) (pm	12:00	am /pm	17	CH 575	Trash	Demo cubis	18443	Daas	
	2:00	am / fm	2:30	am / pm	18	CH 575	Trasn		18428	Dads	
	4:30	am (pm)	5:00	am / 6m	199	CH 575	trash	Deno aubor>	18428	Dads	
		am / pm		am / pm	20						
		am / pm		am / pm							
		am / pm		am / pm							
		am / pm		am / pm							
		am / pm		am / pm							
		am / pm		am / pm							

Legend:

Materials: R = Recycle T = Trash

terials: Descript

Concrete, Asphalt, Asbestos, Lumber, Construction Debris, Trash, Metals,



2920 W. 73rd Ave. Westminster, CO 80030 Fax 303-331-8259 PH 720-357-1448

BILL TO:	KS					
DISPATCHED BY:						
DATE: 1/8/18	JOB DE	SCRIPTION:				
TRUCK # CH 575		I - 70				
TANDEM_TRAILER						
MATERIAL DE MO		C)Emal	CETEON		
	L	OADS		INLOADS		
JOB#	1	2.0.0.5	AP	73		
LOAD AT	2	1/	AP	23		
CLAYTONS	3	"	AD	73		
11/1	4	11	AP	73		
46+1						
UNLOAD AT						
D.A.D.S				(2)		
D. 1200				()		
RATE\$						
HOURLY TONMILE						
START TIME 7:30m						
STOP TIME 5:30						
TOTAL HOURS						
10						
10	OWNER	OF TRUCK:				
DRIVER'S NA	ME	AUTHO	AUTHORIZED SIGNATURE			
Marci	sh	1	2	7		
TOTAL HOURS O DRIVER'S NA	ME statement. Past	AUTHO	est at 1.5% pe	er month, Ir		



Nº 42900

2920 W. 73rd Ave Westminster, CO 80030 FAX 303-487-5731 PH 720-357-1448

BILL TO: 5 KS	Indust	rees Muc
DISPATCHED BY:	11	Tronsport
DATE 1/9/19	JOB DESCRIPTION:	
TRUCK # 6 F-01	Central 3	1.70
TANDEM TRAILER	project	Mario
MATERIAL Demo	Demo	
	LOADS	UNLOADS
JOB# 18603	7:40 * 8	.35 - 18-304
LOAD AT		
Claston st	10:10 \$ 11:0	00 - AP-83
	12:30 # 1:	20 - AP - 83
UNLOAD AT DR ds 3500 Gun Club		30 - Np_83
	4:30 * 6:	00-AP-83
RATE\$		N O
HOURLY TONMILE		
START TIME 7:30		(1)
STOP TIME 6:00 pu	1	
TOTAL HOURS		
10/hrs 101/k hs	OWNER OF TRUCK:	Runto
DRIVER'S NAM	E AUT	HORIZED SIGNATURE
Benito Cast Net due 30 days from date of this sta collection of this account becomes	atement. Past due accounts bear inecessary, client agraes to pay	interest at 1.5% per month. In the event all costs and reasonable attorney fees.



2920 W. 73rd Ave. Westminster, CO 80030 Fax 303-331-8259 PH 720-357-1448

LL TO: JKS	2000		
ISPATCHED BY: C #/	JOB DESCRIPT	ION:	
AIE: /- 9- / 7	1-70		
RUCK # J D 22	1-10		
ANDEM TRAILER			
MATERIAL TRACK		T	UNLOADS
	LOADS		18-304
JOB#/8603	1		10-309
JOB#/8603 LOAD AT	2		
46 TH	3		
CLAYTON	4		
UNLOAD AT			(A)
DAO'S			
LAND FIL			
RATE\$			
HOURLY ZTONMILE			
START TIME 7:30	(_=_		
STOP TIME //:30			
TOTAL HOURS			
4.0	OWNER OF	TRUCK:	SD BRIGHT
DRIVER'S N		AUT	HORIZED SIGNATURE
MSUAIDO T		/ U	interest at 1/5% per month. In the e ill costs and reasonable attorney for



Nº 50199

2920 W. 73rd Ave Westminster, CO 80030 FAX 303-487-5731 PH 720-357-1448

BILL TO: TKS	Indus	tries	inc.
DISPATCHED BY:	herror		
DATE 10-9-2019	JOB DESCI	RIPTION:	
TRUCK# 575	Contro	1 70	project
TANDEM TRAILER	Cerr		
MATERIAL Domo			
	LOA	DS	UNLOADS
JOB# 18603	Dem	0	SP-83
LOAD AT	Dem		10-83
clayton st/	Dem		AP-83
4616	Dem	0	AP-83
	Dew	16	AP-83
UNLOAD AT			
Dadis			
land Fill			
19112/ 111		-	(6)
RATE\$			
HOURLY TONMILE			
START TIME 7 130A	4		
STOP TIME 6:30 PM			
TOTAL HOURS			
llhis			
111111	OWNER OF 1	10100M	
DRIVER'S NAM	E		RIZED SIGNATURE
SM		1 aun	Kur
Net due 30 days from date of this sta collection of this account becomes	tement. Past due a necessary, client a	ccounts bear inter	rest at 4.5% per month. In the event osts and reasonable attorney fees.



2920 W. 73rd Ave. Westminster, CO 80030 Fax 303-331-8259 PH 720-357-1448

BILL TO:	(. F	55	T.
DISPATCHED/BY:		Chacor	1'5
DATE: 10/1/19	JOB DESCRI		
TRUCK # 1575	1	0001	7
TANDEM TRAILER		ento	
MATERIAL Denno			
	LOAD	S	UNLOADS
JOB#	/		DA.DS
LOAD AT /	1		DA.DS
clayton y6	1		5A.DS
16	1		MA.DS
92	t		Dorps
UNLOAD AT			
2120			(h)
8405			
RATE\$			
HOURLY TONMILE			
START TIME 7:00 MM			
STOP TIME 5:30			
TOTAL HOURS			
16-5			
10-2	OWNER OF T	TRUCK:	
DRIVER'S NA	ME	AUTHO	RIZED SIGNATURE
508		Adsus	
Net due 30 days from date of this collection of this account become			



2920 W. 73rd Ave. Westminster, CQ 80030 Fax 303-331-8259 PH 720-357-1448

BILL TO: JKS	Const	7				
DISPATCHED BY:	chacous Gist					
DATE: 1-10-19	JOB DESCRIPTION:	B DESCRIPTION:				
TRUCK# CH 333						
TANDEM TRAILER						
MATERIAL DOMO						
	LOADS	UNLOADS				
JOB# 18603	100/8 #					
LOAD AT	7:45 Dels	Ap: 83				
4C+h	10:30 Deals	10.73				
4	100 Dels	Ap. 73				
Clay kn st						
UNLOAD AT						
Dads pit		(6)				
RATE\$						
HOURLY TONMILE						
START TIME 7:00						
STOP TIME 5:30						
TOTAL HOURS						
108						
10.5	OWNER OF TRUCK:					
DRIVER'S NA	ME AUTHO	ORIZED SIGNATURE				
Justin Castalo	Aus	18				
Net due 30 days from date of this collection of this account become	statement. Past due accounts bear interes necessary, client agrees to pay all co	rest at 1.5% per month. In the event osts and reasonable attorney fees.				



2920 W. 73rd Ave. Westminster, CO 80030 Fax 303-331-8259 PH 720-357-1448

BILL TO:	167.	(
DISPATCHED BY: /	0.,	
DATE: //////9	JOB DESCRIPTION:	
TRUCK#		00
TANDEM TRAILER	L De	110
MATERIAL Dem		
	LOADS	UNLOADS
JOB#	1	DA. DS
LOAD AT /	/	0.15
Clay ton		
(//		
46		
UNLOAD AT		(4)
DADO		
DADS		
RATE \$		
HOURLY TONMILE		
START TIME 7. COM	u	
STOP TIME 3:30 PM		
TOTAL HOURS		
01/1		
8/2 115	OWNER OF TRUCK:	
DRIVER'S NA	ME JAU	THORIZED SIGNATURE
205	e In	UNKAUS
Net due 30 days from date of this	statement. Past due accounts bear	r interest at 1.5% per month. In the event

collection of this account becomes necessary, client egrees to pay all costs and reasonable attorney fees.



10b. Waste Weight Tickets



Denver Arapahoe Disposal 3500 S Gun Club . PO Box 460397 Aurera, CD, 80018 Ph: (720) 876-2620

Original Ticket# 3291538

Customer Name JKSINDUSTRIESLLC JKS Industri Carrier JKS INDUSTRIES JKS INDUSTRIES Ticket Date 01/08/2019 Vehicle# 1 Volume

Payment Type Gredit Account

Manual Ticket#

Hauling Ticket# Route

State Waste Code

Manifest Destination PO

Profile ()

Generator

Time

In 01/08/2019 07:04:18 MANUAL WT Out 01/08/2019 07:04:18

Scale

Doerator aramirez aramirez

Container

Gen EPA ID

Billing # 0014925

Driver

Check#

Grid

* Manual Weight

Inbound Gross

Tare Net Tons

i lb* 1 lb

2 16*

Comments 10 loads for central 70 project 306-14925-- 1/8/19

PLEASE MAKE SURE YOUR TICKET IS CORRECT BEFORE SIGNING.

Pro	duct	LD%	Oty	UOM.	Rate	Fee	Amount	Origin
man from the co					Non-State and April 10th and have been also and a	or is thing there have been income to set their book has		and their distriction and their limit state with their seed only
1	CDY-CONST DEBRIS	- 100	170.00	Yands				

Total Fees Total Ticket

Date: 1-8-19	Ticket#: AP 73
ACCT#:306-14925	JKS INDUSTRIES CENTRAL 70 PROJECT
CDY 18 YDS	25 YDS HIGHSIDES DISPOSAL SITE: DADS 3500 S GUN CLUB RD AURORA CO 80018
DRIVER	
Signature:	MACL
	10 X17=170
Date: 1-8-19	Ticket#: AP 73
ACCT#:306-14925	JKS INDUSTRIES
	CENTRAL 70 PROJECT
CDV 10.VDC X	
CDY 18 YDS	25 YDS HIGHSIDES DISPOSAL SITE: DADS
	3500 S GUN CLUB RD
	AURORA CO 80018
Signature: DRIVER	ACH
o.g.iaiaio	

Date: 1-8-19	Ticket#: AP 73
ACCT#+206 14025	JKS INDUSTRIES
<u>4CCT#:306-14925</u>	CENTRAL 70 PROJECT
	CENTRAL TO TROUEST
CD: 1 18 YDS	25 YDS HIGHSIDES
	DISPOSAL SITE: DADS
	3500 S GUN CLUB RD
	AURORA CO 80018
DRIVER:	A OLL
Signature: M	16 - 0 0
0 10	12 73
Date: 1-8-19	Ticket#: AP 73
446T# 20/ 4402F	THE THIN ISTRICE
ACCT#:306-14925	JKS INDUSTRIES CENTRAL 70 PROJECT
	CENTRAL TO PROJECT
CDY 18 YDS	25 YDS HIGHSIDES
	DISPOSAL SITE: DADS
	3500 S GUN CLUB RD
	AURORA CO 80018
DRIVER:	Λ
Signature:	A.Cl.



Denver Arapahoe Disposal 3500 S Gun Club , PD Box 460397 Aurora, CO, 80018 Ph: (720) 876-2620 Original Ticket# 3292279

Customer Name JKSINDUSTRIESLLC JKS Industri Carrier JKS INDUSTRIES JKS INDUSTRIES
Ticket Date 01/09/2019 Vehicle# 1 Volume

Ticket Date 01/09/2019 Vehicle# 1 Volument Type Credit Account Container

Manual Ticket# Driver
Hauling Ticket# Check#

Route Billing # 0014925

State Waste Code Gen EPA ID
Manifest Grid

Profile () Generator

Destination

2 16* Time Scale Operator Inbound Gross 1 1b* In 01/09/2019 07:29:37 MANUAL WT aramirez Tare Out 01/09/2019 07:29:37 arapirez Net 1 16 * Manual Weight Tons

Comments 12 loads central 70 project 1/9/19 = 204 yds total for 306-14925

PLEASE MAKE SURE YOUR TICKET IS CORRECT BEFORE SIGNING.

Pro	duct	LD%	Qty	MOU	Rate	Fee	Amount	Origin
\$6'00 -00" Annua	and with the long field, and come after their land, with 100 to 1	man and a single property and the same of						
1	CDY-CONST DEBRIS	- 100	204.00	Yards				

Total Fees Total Ticket

Date: 2-9-19	Ticket#: AP-73
ACCT#:306-14925	JKS INDUSTRIES
	CENTRAL 70 PROJECT
CDY 18 YDS	SE VAC LITCUISTAGE
007 10 703	25 YDS HIGHSIDES DISPOSAL SITE: DADS
	3500 S GUN CLUB RD
	AURORA CO 80018
DRIVER:	/ / /
Signature:	hel M
Date: 1-9-19	Ticket#: 42-73
ACCT#:306-14925	JKS INDUSTRIES
	CENTRAL 70 PROJECT
CDY 18 YDS	25 YDS HIGHSIDES
007 10 703	
	DISPUSAL SILE: DADS
	DISPOSAL SITE: DADS
	3500 S GUN CLUB RD AURORA CO 80018
DRIVER:	3500 S GUN CLUB RD AURORA CO 80018

Date: 1-8-19	Ticket#: 18-304
ACCT#:306-14925	JKS INDUSTRIES CENTRAL 70 PROJECT
CDY 18 YDS	25 YDS HIGHSIDES DISPOSAL SITE: DADS
	3500 S GUN CLUB RD AURORA CO 80018
Signature: DRIVER:	
-	
Date: 1-9-19	Ticket#: 18-304
ACCT#:306-14925	JKS INDUSTRIES CENTRAL 70 PROJECT
CDY 18 YDS	25 YDS HIGHSIDES
	DISPOSAL SITE: DADS 3500 S GUN CLUB RD
DDTVED.	AURORA CO 80018
DRIVER:	



Denver Arapahoe Disposal 3500 S Gun Club , PO Box 460397 Aurora, CO, 80018 Ph: (720) 876-2620

Original Ticket# 3293150

Customer Name JKSINDUSTRIESLLC JKS Industri Carrier JKS INDUSTRIES JKS INDUSTRIES Volume Vehicle# 1

Ticket Date 01/10/2019 Payment Type Credit Account Container

Driver Manual Ticket# Hauling Ticket# Check#

Billing # 0014925 Route Gen EPA ID

State Waste Code Grid Manifest

Destination

Profile ()

Generator

Time Scale Operator Inbound Gross 2 1b* MANUAL WT SLA Tare 1 15% In 01/10/2019 13:59:03 Net Out 01/10/2019 13:59:03 1 16 SLA * Manual Weight Tons

Comments

PLEASE MAKE SURE YOUR TICKET IS CORRECT BEFORE SIGNING.

Pro	duct		LD%	Qty	MOU	Rate	Fee	Amount	Origin	
Treatment and any agency				to preside the court of the same and provide the party of the	THE RELEASE AND MAKE STREET, MICH.	ATT THE PERSON NAMED AND THE PARTY AND	COMMERCIAL STREET, STORY PLANT, SHAPE, MICH. STREET, S	met was viral arms from a loss only time year work to be select to the	that were start from the war time and the last from time	
1	CDY-CONST	DEBRIS -	100	126.00	Yards					

Total Fees Total Ticket

Date: 1-10-19	Ticket#: AP-73
ACCT#:306-14925	JKS INDUSTRIES CENTRAL 70 PROJECT
CDY 18 YDS	25 YDS HIGHSIDES DISPOSAL SITE: DADS 3500 S GUN CLUB RD AURORA CO 80018
D.D.	RIVER
Signature:	STVER S
	•
Date: 1-10-19	Ticket#: 42-73
ACCT#:306-14925	
	JKS INDUSTRIES CENTRAL 70 PROJECT
CDY 18 YDS	

Date: 10-17	Ticket#: Ap 73
ACCT#:306-14925	JKS INDUSTRIES CENTRAL 70 PROJECT
CDY 18 YDS	25 YDS HIGHSIDES DISPOSAL SITE: DADS
Signature: Justa La	3500 S GUN CLUB RD AURORA CO 80018
Signature: 10) 111 Car	
Date: 1-10-19	Ticket#: <u>AP-73</u>
ACCT#:306-14925	JKS INDUSTRIES CENTRAL 70 PROJECT
CDY 18 YDS	25 YDS HIGHSIDES
	DISPOSAL SITE: DADS 3500 S GUN CLUB RD
DRIVER:	AURORA CO 80018
Signature:	* / ~ (

Date: 1-10-19	Ticket#: Ap 33
ACCT#:306-14925	JKS INDUSTRIES CENTRAL 70 PROJECT
CDY 18 YDS	25 YDS HIGHSIDES DISPOSAL SITE: DADS 3500 S GUN CLUB RD AURORA CO 80018
DRIVER: Signature:	Jey.
Date: 1-10-19	Ticket#: AP-73
ACCT#:306-14925	JKS INDUSTRIES CENTRAL 70 PROJECT
CDY 18 YDS	25 YDS HIGHSIDES DISPOSAL SITE: DADS 3500 S GUN CLUB RD AURORA CO 80018
DRIVER	The state of the s
Signature:	



Denver Arapahoe Disposal 3500 S Gun Club , PO Box 460397 Aurora, CO, 80018 Ph: (720) 876-2620

Original Ticket# 3297146

Volume

Customer Name JKSINDUSTRIESLLC JKS Industri Carrier JKS INDUSTRIES JKS INDUSTRIES Ticket Date 01/18/2019

Payment Type Credit Account

Manual Ticket# Hauling Ticket# Route

State Waste Code

Manifest Destination

Profile ()

Generator

Time In 01/18/2019 07:01:42 Dut 01/18/2019 07:01:42

Scale MANUAL WT

aramirez aramirez

* Manual Weight

Container Driver

Gen EPA ID

Check#

Grid

Operator Inbound

Vehicle# 1

Billing # 0014925

Gross Tare Net Tons

2 16* 1 1b* 1 lb

Comments 85yds total central 70 project 306-14925 1/18/19

PLEASE MAKE SURE YOUR TICKET IS CORRECT BEFORE SIGNING.

Amount Origin UOM Rate Fee Product LD# Qty 1 CDY-CONST DEBRIS - 100 85.00 Yards

> Total Fees Total Ticket

Date: 1-18-19.	Ticket#: <u>AP-73</u>
ACCT#:306-14925	JKS INDUSTRIES 500 = CENTRAL 70 PROJECT
CDY 18 YDS	25 YDS HIGHSIDES DISPOSAL SITE: DADS 3500 S GUN CLUB RD AURORA CO 80018
DRIVER:	
Date: 1-18-19 ACCT#:306-14925	Ticket#: Ap-73 JKS INDUSTRIES CENTRAL 70 PROJECT
CDY 18 YDS	25 YDS HIGHSIDES DISPOSAL SITE: DADS 3500 S GUN CLUB RD
DRIVER:	AURORA CO 80018

Date: 18-19	Ticket#: Ap-73
ACCT#:306-14925	JKS INDUSTRIES CENTRAL 70 PROJECT
CDY 18 YDS	25 YDS HIGHSIDES DISPOSAL SITE: DADS 3500 S GUN CLUB RD AURORA CO 80018
DR: Signature:	IVER A

Dell on

4-4 (4)

Date: 1-18-19	Ticket#: 73
ACCT#:306-14925	JKS INDUSTRIES CENTRAL 70 PROJECT
CDY 18 YDS	25 YDS HIGHSIDES DISPOSAL SITE: DADS
בסדעובה.	3500 S GUN CLUB RD AURORA CO 80018
Signature:	Her

.

1-18-19 Date: 1-18-19	Ticket#: Ap 68 73
ACCT#:306-14925	JKS INDUSTRIES CENTRAL 70 PROJECT
CDY 18 YDS	25 YDS HIGHSIDES DISPOSAL SITE: DADS 3500 S GUN CLUB RD AURORA CO 80018
DR Signature:	ZIVER

.



11. Dump Diversion Summary

JKS Industries

AP-73: 4600 Clayton St.

	Descriptions	Dump Diversion / Recycle %								
Phase	Activity	<u>Unit of</u>	# of Yards	<u># of</u>	<u>Total</u>	<u>Pounds</u>	<u>Total</u>	Recycled	<u>Pounds</u>	<u>% of</u>
		<u>Measure</u>	<u>per</u>	<u>Containers</u>	Number of	<u>Per</u>	<u>Lbs</u>	Yes/No	of Recycle or Dump	Recycle or Dump
			<u>Container</u>		<u>Yards</u>	Yard **			<u>Diversion</u>	<u>Diversion</u>
Abatement	Trash Rolloff	Cubic Yard	-	-	-	450.00	-			
Abatement	Asbestos Containers	Cubic Yard	-	-	-	500.00	-			
					-		-			
Demolition	Demolition Construction Debris	Cubic Yard	18	19	342.00	1,400.00	478,800			
Demolition	Concrete Debris	Cubic Yard	12	-	-	4,050.00	-	X	-	0.00%
Demolition	Trees	Cubic Yard	-	-	-	500.00	-	Х	-	0.00%
Demolition	Steel	Lbs	-	-	-	-	-	Х	-	0.00%
Demolition	Copper	Lbs					-	X		0.00%
				19	342.00		478,800		-	0.00%

STUDY NOTES

- 1 The source material used for the Volume to Weight conversions came from Waste Management web site.
- 2 Conversions ratio's have been modified based on estimated compaction.



12. Containment Entry/Exit Log

JKS INDUSTRIES

CONTAINMENT SIGN-IN & SIGN-OUT SHEET Job Name: At -73 Job #: 18-304

Date:

NAME	SIGN-IN	SIGN-OUT	SIGN-IN	SIGN-OUT
1. Eltiques	7:00	1(:30	12:00	3:30
2. TriNA B	7:00	11:30	12:00	3:30
3. Monica 3	7'.00	11:30	12:00	4:30
4. RAMICA	7:00	11:30	17:00	3:30
5. TAINA P	7:00	11:30	12:00	4:30
6. Ricardo F	7:00	11:30	12:00	4:30
7. Altredo R	7.00	11:30	12:00	4:30
8. Jean Carlos	7:00	11:30	12:00	4:30
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				

JKS INDUSTRIES

CONTAINMENT SIGN-IN & SIGN-OUT SHEET Job Name: Ap 73 Job #: 18 304

12 19 18 Date:

NAME	SIGN-IN	SIGN-OUT	SIGN-IN	SIGN-OUT
1. Jean Carlos L	7:00	11:00	11:30	4:30
2. Ricardo F	7:00	11:00	11:30	4:30
3. TANIA ?	7:00	11:00	11:36	4:80
4. Altredo R	7:00	11:00	11:30	4:30
5. MONICA B	7:00	11:00	11:39	4:30
6. IriNA B	9:30	11:30	12:00	3:30
7. Etique	9:30	11:30	12:00	3:30
8. RATMITA D	9:30	11:30	12:00	3:30
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				11
18.				
19.				
20.				



13. Daily Logs

JKS IDUSTRIES LLC DAILY PROJECT LOG

Report#
Year zor 8 Superintendent weil Project Manager D:NACOO Weather: Work Performed Today 7:00 LOOK PLAN & Safety breif - Street & Reno Temp. Hi___Low___ Start the Day by splitting crew into 1/2's. Safety Meeting Topic: AZ 73 Crew to Join CETED From AP 80 IN PER Number Work Force Project Manager Clean than Sot UT. Pre clean Gwish Around 10:30A Project Supervisor Operators begin set up. Improvise for electricity luse Laborers Tradesmen Other: SMAIL OND LARGE SENDRATORS TO SUPPHY PERMANETE Equipment Other: Other: SHO tools Messessing tomorrow. @ END of DAY Materials Used Quantity DATY were to gether took for JOR BASS, VACS, HARMES ect. .. Material Purchased/Delivered Problems - Delays, Safety Issues NONE Subcontractor Progress Inspections Insp Chklist Complete? Equipment Hours Rented From Equipment Rented Today Visitors (Incl. Subs, Clients, etc)

JKS IDUSTRIES LLC DAILY PROJECT LOG

Job # 12 16 18 Job Name: Δρ 73 Report #

Date 18 304 Day ως Month Dec Year 2018

Project Manager D:NAS DO Superintendent Weil

ork Performed Today			Weather:		
JOCK PLAN - SARcty Breif	- Street & Ben	2:30 44 60			
1:00 prep work store	Temp. HiLow				
of inside containment: 5	1 06 1:12	Safety Meeting			
up wire much beweath	@ 9:30 +	nat mereration	Topic:		
AAROXAMATIV 50% U	omplete. Move	the team		umber	
7	removal of f	coring Down	Project Manager		
WOODEN SUPPLOOF Q	11:00 bulk 1	CMOVA (a) 50%	Project Supervisor	1	
stal even with the As	Applifices of	3 more	Operators		
106Kers @ 9:30. the	of started wi	th bas out	Laborers	8	
refore entry. Also be	ar out before	buch.	Tradesmen		
TL RFL	J.		Other:		
1:30 Rolk removar	Almost 100	%. Goivs	Other:		
to seal holes in	Cloor w/tare	And then	Other:		
NASh Drwd	,		Materials Used	Quantity	
			Material Purchased/D	- live d	
-15					
roblems - Delays, Safety Issues	•				
roblems - Delays, Safety Issues		ē.			
roblems - Delays, Safety Issues		1			
Subcontractor Progress					
Subcontractor Progress		3y Lorens (a)	All Phase		
Subcontractor Progress		Insp Chklist Complete?		Hours	
nspections Usual Taxprotan d	PASSED I	1 5 0		Hours	
nspections Usual Taxproton 4	PASSED I	1 5 0		Hours	
Subcontractor Progress Inspections Uisian Taxpedはは、	Rented From	Insp Chklist Complete?		Hours	
nspections Usual Taxprotan d	PASSED I	1 5 0		Hours	
Subcontractor Progress Inspections Uisian Taxpedian 4 Equipment Rented Today	Rented From	Insp Chklist Complete?		Hour	

JKS Industries

ON-SITE DAILY SIGN- IN SHEET

Project Name: AP - 73

Project NO: 18-304

Supervisor: Mario Her Mosilla

NAME	Initial	EMPLOYER	TIME IN	TIME OUT	TIME IN	TIME OUT	TOTAL
NAME lark Kelley	MR	JKS	3:00PM	5:00 PM			
,							
					-		
							-
4							
						TOTAL	

Job # AP 73

JKS IDUSTRIES LLC DAILY PROJECT LOG
Job Name: DEMO 4600 CONTON

_	10-	 -01	
		B. A	7
		IVIONTN	JANUARY
			- CONTRACT

Report #

Date 1-8-19 Day TUESDAY	Month ThruAry Year
Project Manager	Superintendent
Work Performed Today	Weather:
Remove Dennis	Temp. HiLow

ork Performed Today			vveatrier.	
Distance Demand			Temp. HiLow	
Remove Dennis			Safety Meeting	
			Topic:	
			Work Force N	umber
			Project Manager	
			Project Supervisor	
			Operators	
			Laborers	
			Tradesmen	
			Other:	
			Other:	
			Other:	
			Materials Used	Quantity
			materiale esea	
				-
			14 () 15 1 1/5	- Property of
			Material Purchased/D	elivered
Problems - Delays, Safety Issues				
			\$	
350 EXCAUATOR D	DUA AND	IN THE WA	9	
Subcontractor Progress				
nspections				
паресиона				
	B / 15	I	Iron days and	Llour
Equipment Rented Today	Rented From	Insp Chklist Complete?	Equipment	Hour
				-
Visitors (Incl. Subs, Clients, etc)	Time In/Time Out	Activity Onsite		
Visitors (IIIoi. Oubs, Olients, etc)	Timo no timo out	in the state of th		

JKS Industries ON-SITE DAILY SIGN- IN SHEET

Project Name: AD 73
Project NO: 18-304
Supervisor: Har 0 HerMosil to

-19	NAME	Initial	EMPLOYER	TIME IN	TIME OUT	TIME IN	TIME OUT	TOTAL
	Mark Kelley	MK	JRS	7:00 AM	5:00 PM			
1	MAIR							
719				4				
7 KV	MARK Kuzy	MK	JKS	10;00 An.	4.80PM			
7-54	,							
/	Manie Keur	MC	JKS	7:00				
1/19	Zicardo Gunzala	RU	TKS	7:00				-
111								
								-
								_
								-
				+				
							TOTAL	

Date: 7-8-2019 Project Name: Project NO: Supervisor: March 19

NAME	Initial	EMPLOYER	TIME IN	TIME OUT	TIME IN	TIME OUT	TOTAL
laik Kelley	MK	JKS	7:00AM	4:00PM			
			,				
						TOTAL	

JKS Industries ON-SITE DAILY SIGN- IN SHEET

Date: 1-9-19
Project Name: Ap 73
Project NO: 19-30 H
Supervisor: Mario HCrMoSilb

NAME	Initial	EMPLOYER	TIME IN	TIME OUT	TIME IN	TIME OUT	TOTAL
MARK KELLEY Ricardo Gunealez	MK	山KS	7:00 AM	5:30°r			
Ricardo Conculez	429	JKS	7:00 Am	5:30 Pm			
		÷					
							*
				1			
						TOTAL	

JKS Industries ON-SITE DAILY SIGN- IN SHEET Date: 1-10-19 Project Name: Ap 73 Project NO: 18-304 Supervisor: Hand Herwosillo

NAME	Initial	EMPLOYER	TIME IN	TIME OUT	TIME IN	TIME OUT	TOTAL
Jesus Casado	SC	JKS	8:00 AM	3:30 PM			
amob Remire	JR	JKS	8.00 Am				
Jesus Casodo amob Renirec Lark Kelley Licardo Gonzala	HIK	JRS	8:00 AM	3:30 pm			
licardo Gorzala	26	JES	8:00 Am	3:30 PM			
					,		
					t		
						TOTAL	

JKS Industries

ON-SITE DAILY SIGN- IN SHEET

Project Name: AD 73

Project NO: 18-30-1

Supervisor: Mank Kelley.

NAME	Initial	EMPLOYER	TIME IN	TIME OUT	TIME IN	TIME OUT	TOTAL
MARK KELLY	MIL	JKS	7,00 AM	TIME OUT			
MARK KELLY Ricardo honsula	Ra	2K2	7:00Am	3:3044			
			,				
		- (*)					
							-
					7		
						.4	
			1				
						TOTAL	

JKS IDUSTRIES LLC DAILY PROJECT LOG

Job Name: 18304 Month Jan Report # Year 2019 Job# Date 1-18-19 Superintendent _____ Project Manager Weather: Work Performed Today Temp. Hi____Low Safety Meeting Topic: Number Work Force Project Manager **Project Supervisor** Operators Laborers Tradesmen Other: Other: Other: Materials Used Quantity Material Purchased/Delivered Problems - Delays, Safety Issues Subcontractor Progress Inspections Hours **Equipment Rented Today** Rented From Insp Chklist Complete? | Equipment Time In/Time Out **Activity Onsite** Visitors (Incl. Subs, Clients, etc)