

Close Out Documents

AP-28 – 4646 Vine St.

Structural Demolition

Prepared for:

Kiewit Infrastructure Co.
Attn: Jenn Bradtmueller
160 Inverness Drive West, Suite 110
Englewood CO 80112

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1. Closeout Letter

December 26, 2018

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

Re: SSCR AP-28 – 4646 Vine St.

Dear Kiewit Infrastructure Co.

This letter is confirm that all the work associated with the demolition of the structure located at 4646 Vine St. Denver CO 80216, also referred as parcel AP-28, is complete.

The scope of work included the removal of Regulated Building Materials (RMBs), demolition of a 1,600 square foot residential structure, demolition of a 543 square foot detached garage, and the removal of the curb and driveway.

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 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 11/7/2018.

The actual scheduled work dates are from 11/7/2018 through 12/7/2018.

Approval issued on: 11/15/2018

Record number: 143398

Notice Number: 18DE7655D

For the location specified below:

AP-28 Residential

4646 Vine St.

Denver

Denver County

Fee Paid: \$60.00

Check number: 5603

Asbestos Building Inspector:

Logan Greenfield

Cerification No.: 20715

Inspection Date: 06/07/2018

This notice has been issued to:

JKS Industries, Inc.

747 Sheridan Blvd. Unit 9A

Lakewood, CO 80214

Issued by: SK



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

Demolition Contractor	Company Name: JKS Industries			Demolition Site	Building Name: AP-28 Residential		
	Street: 747 Sheridan Blvd. Unit 9A				Square footage of footprint of facility or portion of facility to be demolished: 1,600		
	City: Lakewood	State: CO	Zip Code: 80214		Street: AP-28 4646 Vine Street		
	Telephone #: (303) 238-0207	Fax #: (303) 238-0452			City: Denver	County: Denver	Zip Code: 80216
	Project Manager: Jeff Knight	Cell Phone #: (720) 402-4410			Proposed Start Date: 11/7/18	Proposed Completion Date: 12/7/18	
	I certify that the Certified Asbestos Building Inspector has informed me about any remaining asbestos-containing materials in the facility to be demolished.				Method/Mean of Demolition:		
	Signature:	Print Name: Jeffrey Knight			<input checked="" type="checkbox"/> Wrecking <input type="checkbox"/> Burning [†] <input type="checkbox"/> Implosion <input type="checkbox"/> Moving <input type="checkbox"/> Other, specify:		
Landfill Receiving Building Debris: Denver Arapahoe Disposal Site			† Burning requires additional authorization – Please call (303) 692-3100 and ask to speak to the Open Burning Permit Coordinator				

Asbestos Removal Contractor	General Abatement Contractor (GAC): NA			Building Owner	Owner's Name: CDOT		
	CDPHE Asbestos Permit #:				Street: 2000 S Holly Street		
	Date Removal Completed:	Telephone #:			City: Denver	State: CO	Zip Code: 80222
	Type(s) of Asbestos-Containing Material Removed:				Contact's Name: Anthony Davito		
			Telephone #: (303) 512-5900				

With my signature below, I certify that I possess current AHERA accreditation, and state of Colorado certification as an Asbestos Building Inspector. I also certify that I have thoroughly inspected the facility to be demolished, as listed in the Demolition Site block above, sampled all suspect materials, had all samples analyzed for the presence of asbestos by a NVLAP-accredited laboratory, and have determined that no Regulated ACM exists anywhere in the facility.* I also certify that I have informed the owner/operator of the facility or the demolition contractor that any asbestos-containing material allowed to stay in the facility must remain non-friable during demolition. Specify type(s) of ACM remaining, below: **(check appropriate box(es))**:

Vinyl asbestos floor tile (VAT) VAT mastic Tar/asphalt impregnated roofing Asphaltic pipe coatings
 Spray-applied tar coatings Caulking Glazing Other, specify:

Signature: (In Blue Ink) Printed Name: **Logan Greenfield**

Date of Final Inspection: **10-7-18** CO Cert #: **20715** Expiration Date: **Oct. 18, 2019** Telephone #: **(719) 545-0375** Cell Phone #: **(719) 250-0036**

I verify that all refrigerants from air conditioning/refrigeration appliances have been properly recovered in accordance with AQCC Regulation No. 15 (for information on CFC requirements call 692-3100). I further verify that all luminous exit signs (containing radioactive material) have been disposed of in accordance with 6 CCR 1007-1 subpart 3.6.4.3 (for information on luminous exit sign requirements call 303-692-3320).

CHECK THE APPROPRIATE BOX:

Building Owner Contractor Other Date: **11/1/18**

Signature: Print Name: **JEFF KNIGHT**

THIS BOX IS FOR CDPHE USE ONLY:

Postmark or Hand Delivery Date: **10/23/18** Approved By: Code: initial-310 transfer-380

Form of Payment & #: **check #5603 - \$60** Permit #: **182710551** Record #: **143398** Date Issued:

* Regulated asbestos-containing materials means (a) friable asbestos-containing material, (b) Category I nonfriable ACM that has become friable, (c) Category I nonfriable ACM that will be or has been subjected to sanding, grinding, cutting, or abrading or (d) Category II 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 demolition or renovation operations regulated by this regulation. Note: Asbestos-containing sheet vinyl and linoleum must be properly abated/removed prior to demolition.

APPROVED
DATE **11/6/18** CDPHE:

OCT 23 2018
APCD
Asbestos Unit

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 11/7/2018.

The actual scheduled work dates are from 11/7/2018 through 12/7/2018.

Approval issued on: 11/15/2018

Record number: 143397

Notice Number: 18DE7654D

For the location specified below:

AP-28 Garage

4646 Vine St.

Denver

Denver County

Fee Paid: \$55.00

Check number: 5646

Asbestos Building Inspector:

Richard L. Ralston

Cerification No.: 4261

Inspection Date: 11/02/2018

This notice has been issued to:

JKS Industries, Inc.

747 Sheridan Blvd. Unit 9A

Lakewood, CO 80214

Issued by: SK





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

Colorado Department
of Public Health
and Environment

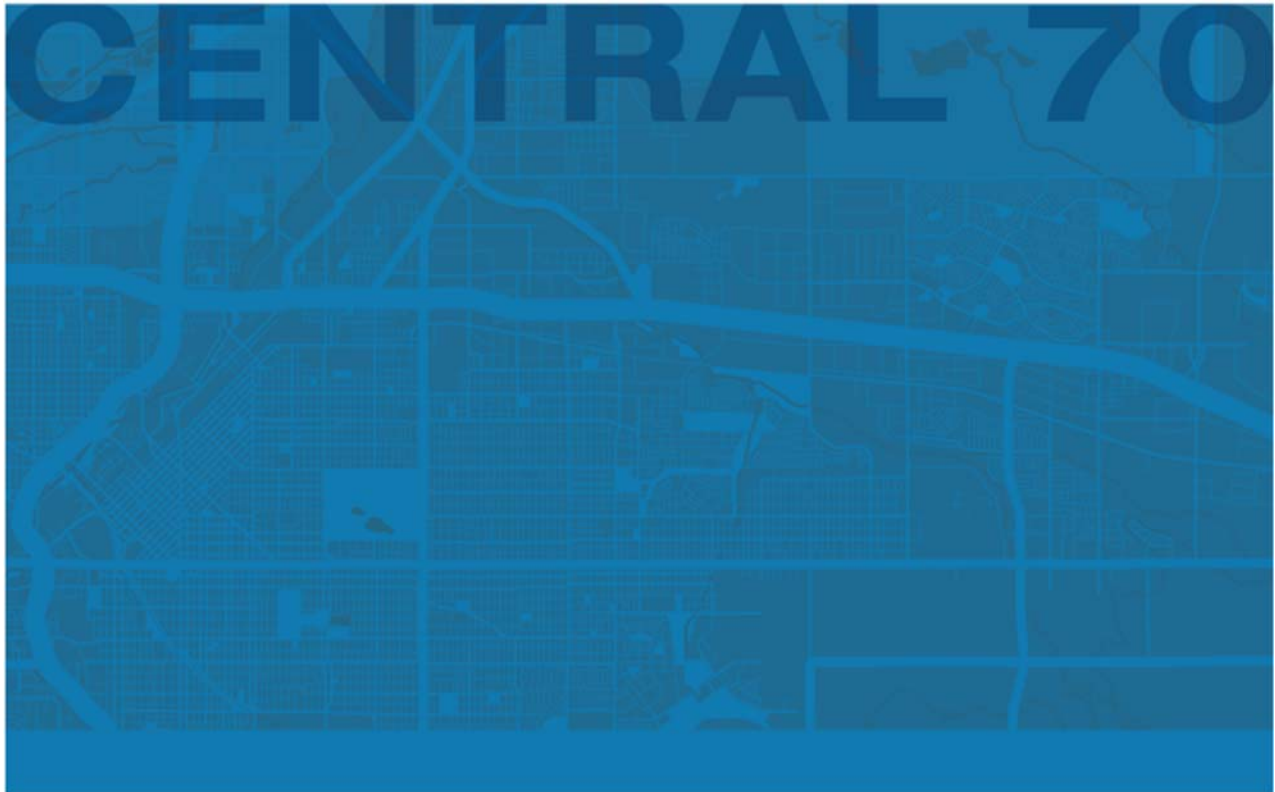
Demolition Contractor	Company Name: JKS Industries			Building Name: AP-28 Garage		
	Street: 747 Sheridan Blvd. #9A			Square footage of footprint of facility or portion of facility to be demolished <u>543</u>		
	City: Lakewood	State: CO	Zip Code: 80214	Street: 4646 Vine St.		
	Telephone # (303) 238-0207	Fax # (303) 238-0452		City: Denver	County: Denver	Zip Code: 80216
	Project Manager: Jeffrey Knight	Cell Phone # (720) 402-4410		Proposed Start Date <u>11/7/18</u>	Proposed Completion Date <u>12/7/18</u>	
	I certify that the Certified Asbestos Building Inspector has informed me about any remaining asbestos-containing materials in the facility to be demolished.					
	Signature: 	Print Name: Jeffrey Knight				
Landfill Receiving Building Debris: Denver Arapahoe Disposal Site ✓						
Asbestos Removal Contractor	General Abatement Contractor (GAC) N/A			Building Owner		
	CDPHE Asbestos Permit #	Total Quantity of Asbestos Removed		Owner's Name: CDOT		
	Date Removal Completed	Telephone #		Street: 2000 S Holly St.		
	Type(s) of Asbestos-Containing Material Removed:			City: Denver	State: CO	Zip Code: 80222
			Contact's Name: Anthony DaVito	Telephone # (303) 512-5900		
Certified Asbestos Inspector Certification	With my signature below, I certify that I possess current AHERA accreditation and state of Colorado certification as an Asbestos Building Inspector. I also certify that I have thoroughly inspected the facility to be demolished, as listed in the Demolition Site block above, sampled all suspect materials, had all samples analyzed for the presence of asbestos by a NVLAP-accredited laboratory, and have determined that no Regulated ACM exists anywhere in the facility.* I also certify that I have informed the owner/operator of the facility or the demolition contractor that any asbestos-containing material allowed to stay in the facility must remain non-friable during demolition. Specify type(s) of ACM remaining, below: (check appropriate box(es)):					
	<input type="checkbox"/> Vinyl asbestos floor tile (VAT) <input type="checkbox"/> VAT mastic <input type="checkbox"/> Tar/asphalt impregnated roofing <input type="checkbox"/> Asphaltic pipe coatings <input type="checkbox"/> Spray-applied tar coatings <input type="checkbox"/> Caulking <input type="checkbox"/> Glazing <input type="checkbox"/> Other, specify:					
	Signature: (In Blue Ink) 			Printed Name: Richard Paulson		
	Date of Final Inspection <u>11/2/2018</u>	CO Cert # <u>4261</u>	Expiration Date <u>MAY 12 - 2019</u>	Telephone # <u>(719) 545-0753</u>	Cell Phone # ()	
Building Owner or Contractor	I verify that all refrigerants from air conditioning/refrigeration appliances have been properly recovered in accordance with AQCC Regulation No. 15 (for information on CFC requirements call 692-3100). I further verify that all luminous exit signs (containing radioactive material) have been disposed of in accordance with 6 CCR 1007-1 subpart 3.6.4.3 (for information on luminous exit sign requirements call 303-692-3320).					
	CHECK THE APPROPRIATE BOX:					
	<input type="checkbox"/> Building Owner	<input checked="" type="checkbox"/> Contractor	<input type="checkbox"/> Other	Date: <u>11/6/18</u>		
Signature: 			Print Name: JEFFREY KNIGHT			
THIS BOX IS FOR CDPHE USE ONLY:						
Postmark or Hand Delivery Date: <u>11/06/18</u>		Approved By:	Code: <input checked="" type="checkbox"/> initial-310 <input type="checkbox"/> transfer-380			
Form of Payment & #: <u>ck \$646 \$55</u>		Permit #: <u>180270540</u>	Record #: <u>43397</u>	Date Issued:		

* Regulated asbestos-containing materials means (a) friable asbestos-containing material, (b) Category I nonfriable ACM that has become friable, (c) Category I nonfriable ACM that will be or has been subjected to sanding, grinding, cutting, or abrading or (d) Category II 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 demolition or renovation operations regulated by this regulation. Note: Asbestos-containing sheet vinyl and linoleum must be properly abated/removed prior to demolition.

APPROVED
DATE 11/6/18 CDPHE

3. Project Design

3a. SSAR



July 16, 2018



Structure Survey Assessment Report AP-28

4646 Vine Street

Denver, CO 80216

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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 Inspector
CDOT	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 Building 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	Carpet
CT	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
RF	Roof Flashing
S	Siding
ST	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

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Appendix C	Laboratory Results & Chain of Custody – Asbestos
Appendix D	Laboratory Results & Chain of Custody – Lead & TCLP

APEC Project # 18-3066-021

Prepared for

Kiewit Meridiam Partners

Prepared by

A handwritten signature in blue ink, appearing to read "Logan Greenfield", written over a horizontal blue line.

Logan Greenfield, CABI & AMS #20715

VP of Field Services

Reviewed by

A handwritten signature in blue ink, appearing to read "Brandice Eslinger", written over a horizontal blue line.

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 material (ACM), lead-based paint (LBP), and regulated building material (RBM) at 4646 Vine 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:	4646 Vine Street, Denver, CO 80216
Building Type	Residential House
Building Size	Building is approximately 1,387 square feet
Construction Date:	2001 – Based on the City and County of Denver Assessor’s Records
Building Uses:	Residential
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 June 7, 2018, APEC certified personnel Logan Greenfield conducted an asbestos survey for demolition at 4646 Vine 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 Emergency Response Act (AHERA) program 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 are not 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 Environmental Protection Agency (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 June 7, 2018, APEC certified personnel Rick Ralston conducted the LBP survey. The 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 down 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 9 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 LBP and/or LCP were taken and are included in the photographic log (Appendix B). The paint chip sample locations were recorded and are included on the sample location drawing (Figure 3). Descriptions of the suspect homogeneous materials and a list of the collected samples are described in the 'Findings' section.

Based on the analytical results for the 9 samples, a Toxicity Characteristic Leachate Procedure (TCLP) sample was analyzed by collecting a representative sample (approximately 105 grams) of combined suspect building materials. The sample results are located in Appendix D.

2.3 SURVEY OF SUSPECTED RBMS

On June 7, 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 suspect 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”, things 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. These materials should be handled with care until deemed safe.

3 Findings

3.1 ASBESTOS SURVEY

A total of 26 bulk samples, including 1 duplicate sample, were collected from 7 suspect homogenous materials throughout the structure. The results of the PLM analysis are presented in Table 2 and Table 3. The following samples are positive for ACMs (i.e. present greater than 1%):

Non-regulated Asbestos Containing Materials

- 4646V-EX-R7A, 4646V-EX-R7B, and 4646V-EX-R7C – Base layer of roofing mastic from roof.

Point Counts

Point count analysis occurs for samples with <1% of asbestos. Point count analysis was not performed due to the initial PLM analysis exceeding 1% asbestos. The laboratory analytical report is included as Appendix C.

Duplicate Samples

For quality assurance purposes, duplicate samples are taken approximately every 20th sample, per the EPA “pink book” that is used by Colorado Regulation 8 for sampling protocol. Duplicate samples are listed as a duplicate (Q) in the sample location column of Table 2 or Table 3. One sample, 4646V-EX-6Q, was collected because a total of 25 samples were obtained.

3.2 LEAD-BASED PAINT SURVEY

A total of 9 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).

No samples were confirmed to be greater than 0.06% by weight and less than 0.5% by weight or greater than 0.5% by weight (Table 4). All 9 samples were less than the LCP and LBP thresholds, and is considered non-lead containing paint (NLC). The laboratory analytical report is included in Appendix D.

3.2.1 TCLP LEAD ANALYTICAL RESULTS

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. 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. A complete list of the RBMs is presented in Table 5, and selected locations of the RBMs are depicted in Figure 4.

4 Conclusions and Recommendations

4.1 ASBESTOS

Approximately 1,300 square feet of roofing mastic, observed as the bottom layer on the roof of the house, was confirmed to be an ACM. This material is a Category II Non-friable ACM and exempt, per NESHAP and Regulation 8. The structure can be demolished without abatement of this material.

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.

According to AHERA, EPA, and the CDPHE, materials testing at less than (<) or equal to 1% asbestos fibers are not considered to be an 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 not detected at concentrations above the LCP or LBP threshold in any of the 9 samples. 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.

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 manufacturer's 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 manufacturer'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, which 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

Sample Name	Sample Location	Lab Results/ Asbestos Type	Detection Method(s)	Condition	Material Description	Material Location	NESHAP Classification	Estimated Quantity (Sq. ft.)
4646V-EX-R7A	EXTERIOR HOUSE	MASTIC 8% CHRYSOTILE	PLM	Good	ROOFING HOUSE	ROOFING MATERIAL ON THE HOUSE	CAT II	1300 Sq.ft
4646V-EX-R7B		MASTIC 8% CHRYSOTILE	PLM	Good			CAT II	
4646V-EX-R7C		HOMOGENEOUS TO SAMPLES 4646V-EX-R7A & 4646V-EX-R7B						

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

Table 3 Non-Asbestos Containing and OSHA Regulated Samples

Sample Name	Sample Location	Lab Results/ Asbestos Type	Detection Method(s)	Condition	Material Description	Material Location	NESHAP Classification
4646V-R4-PC1A	ROOM 4	ND	PLM	Good	POPCORN CEILING	CEILINGS THROUGHOUT STRUCTURE	NA
4646V-R5-PC1B	ROOM 5	ND	PLM	Good			NA
4646V-R7-PC1C	ROOM 7	ND	PLM	Good			NA
4646V-H-PC1D	HALLWAY	ND	PLM	Good			NA
4646V-R10-PC1E	ROOM 10	ND	PLM	Good			NA
4646V-R2-TD2A	ROOM 2	ND	PLM	Good	TEXTURE PATTERN DRYWALL PANELS	WALLS OF ROOMS 2, 5, 6 & 7	NA
4646V-R6-TD2B	ROOM 6	ND	PLM	Good			NA
4646V-R5-TD2C	ROOM 5	ND	PLM	Good			NA
4646V-R7-TD2D	ROOM 7	ND	PLM	Good			NA
4646V-R9-TD2E	ROOM 9	ND	PLM	Good			NA
4646V-R5-WD3A	ROOM 5	ND	PLM	Good	WALLPAPERED DRYWALL	WALLS OF ROOMS 5, 8 AND 11	NA
4646V-R1-WD3B	ROOM 1	ND	PLM	Good			NA
4646V-R8-WD3C	ROOM 8	ND	PLM	Good			NA
4646V-R3-D4A	ROOM 3	ND	PLM	Good	PLAIN DRYWALL	WALLS OF ROOM 3 AND CLOSETS 1, 2 & 3	NA
4646V-C1-D4B	CLOSET 1	ND	PLM	Good			NA
4646V-C2-D4C	CLOSET 2	ND	PLM	Good			NA
4646V-R1-L5A	ROOM 1	ND	PLM	Good	WHITE/GREEN LINOLEUM	FLOORS OF ROOMS 1, 3, 4, 5, 8 & CLOSET 1	NA
4646V-R5-L5B	ROOM 5	ND	PLM	Good			NA
4646V-R8-L5C	ROOM 8	ND	PLM	Good			NA

Sample Name	Sample Location	Lab Results/ Asbestos Type	Detection Method(s)	Condition	Material Description	Material Location	NESHAP Classification
4646V-EX-R6A	EXTERIOR SHED	ND	PLM	Good	ROOFING-SHED	SHED ROOF	NA
4646V-EX-R6Q		ND	PLM	Good			NA
4646V-EX-R6B		ND	PLM	Good			NA
4646V-EX-R6C		ND	PLM	Good			NA

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

Table 4 Summary of Paint Chip Analysis for Lead

Sample Number	Sample Location	Lead Concentration (% wt.)	Component	Paint Description	Classification
4646V-R6-1L	Room 6	<0.0080	Drywall	Green Mint	NLC
4646V-R6-2L	Room 6	<0.0080	Wood	White	NLC
4646V-R3-L3	Room 3	<0.0080	Drywall	Tan	NLC
4646V-R4-L4	Room 4	<0.0080	Drywall	White	NLC
4646V-H-L5	Hallway	0.018	Drywall	Gray	NLC
4646V-R9-L6	Room 9	<0.0080	Drywall	Purple	NLC
4646V-R9-L7	Room 9	<0.0080	Drywall	Pink	NLC
4646V-R10-L8	Room 10	<0.0080	Drywall	Black	NLC
4646V-S-L9	Shed	<0.0080	Wood	Gray	NLC

Table 5 Summary of Regulated Building Materials

Room	Material	Location	Quantity Fixture/Bulbs each
Hallway	Thermostat-Digital	Hallway S wall	1
Room 4	Furance	North Side of Room	1
Exterior	Gas Meter	North Side of House	1
Exterior	Electrical Meter	East Side of House	1
Exterior	Breaker Box	East Side of House	1
Room 3	Water Heater	South Side of Room	1


Figures

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

FIGURE 1

AP-28

Legend

 4646 Vine St



Race St

Vine St

4646 Vine St

Gaylord St

Canam Hwy

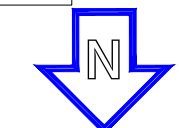
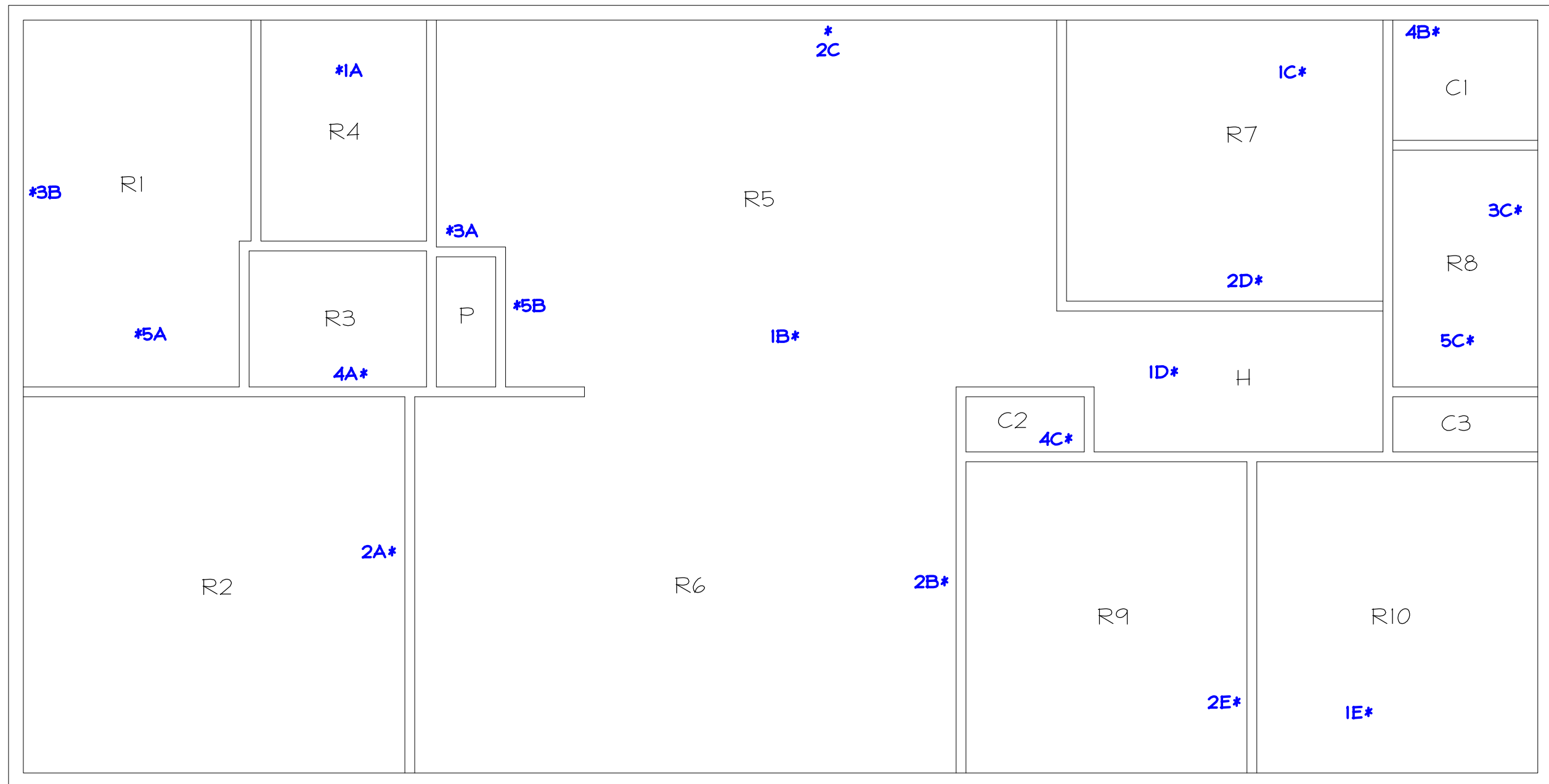
6

U.S. Hwy 85



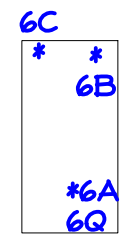
Google Earth

300 ft

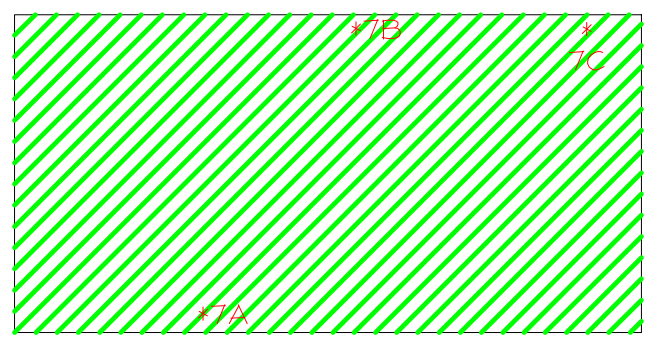


APPROVED: B.N.E.
SCALE: 1/4" = 1'-0"

- R1 = Room Numbers
- 4B = Asbestos Samples (Detect)
- 4B = Asbestos Samples (Non-Detect)
- = Positive Asbestos at Roofing



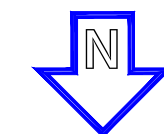
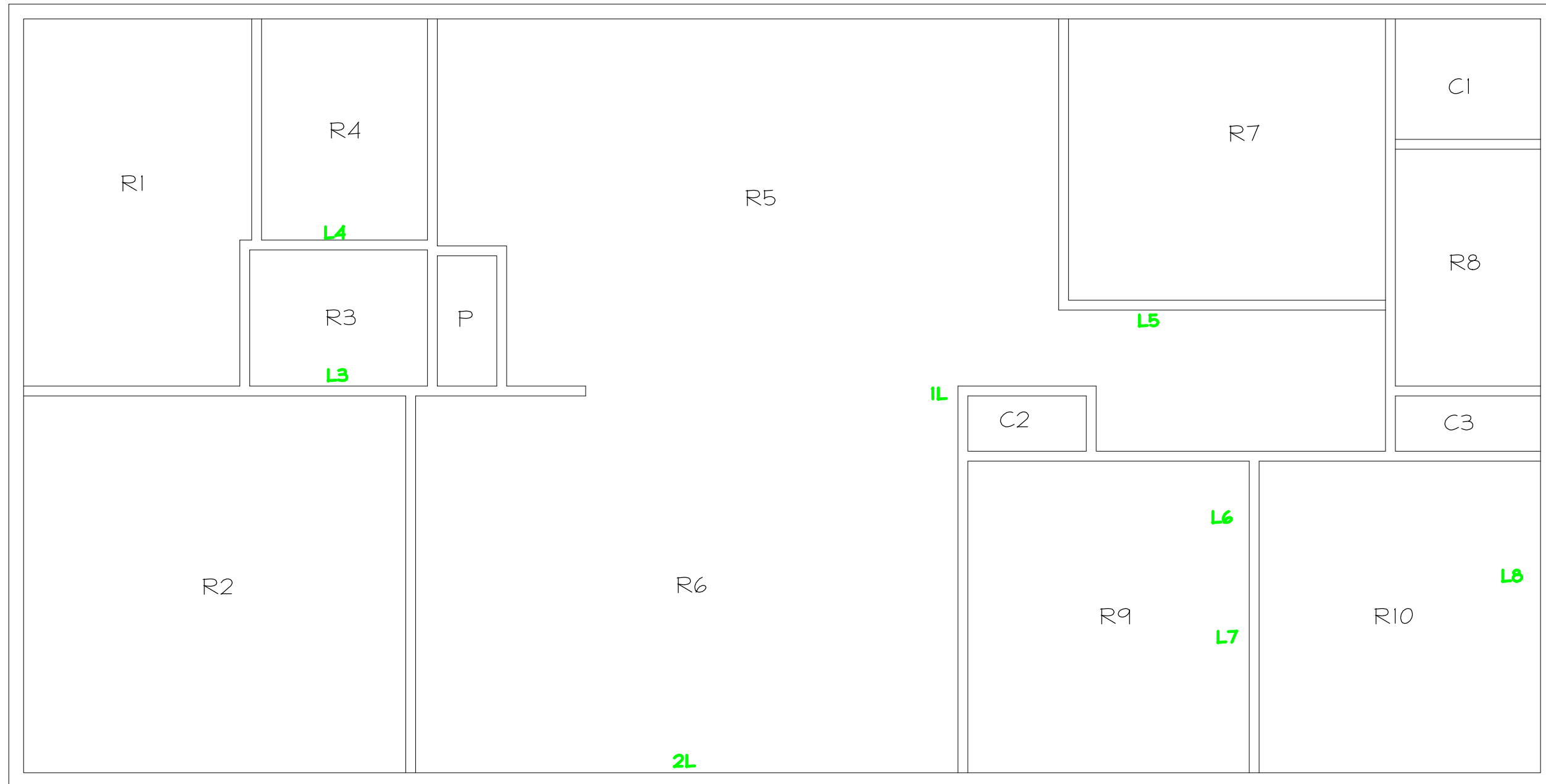
SHED 1/4"=1'-0"



ROOF 1/16"=1'-0"

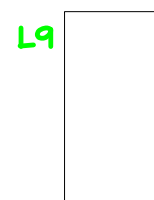
FIGURE 2 - Asbestos Bulk Sample Locations
CENTRAL 70 - Structure Survey Assessment Map
AP-28
 4646 Vine Street, Denver, CO
 June 7, 2018
 APEC #: 18-3066

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

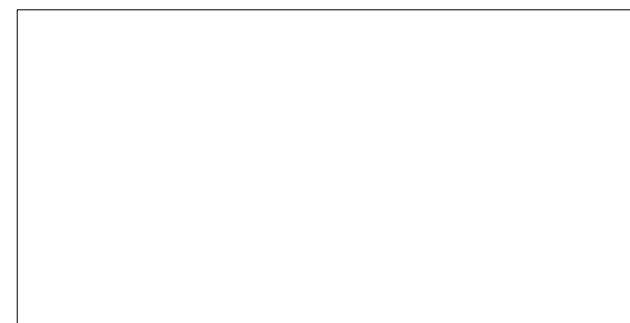


DR BY: R.A.
 APPROVED: B.N.E.
 SCALE: 1/4" = 1'-0"

- R1 = Room Numbers
- 4 = Lead Base Paint (Detect)
- 4 = Lead Containing Paint (Detect)
- 4 = Lead Base Paint (Non-Detect)



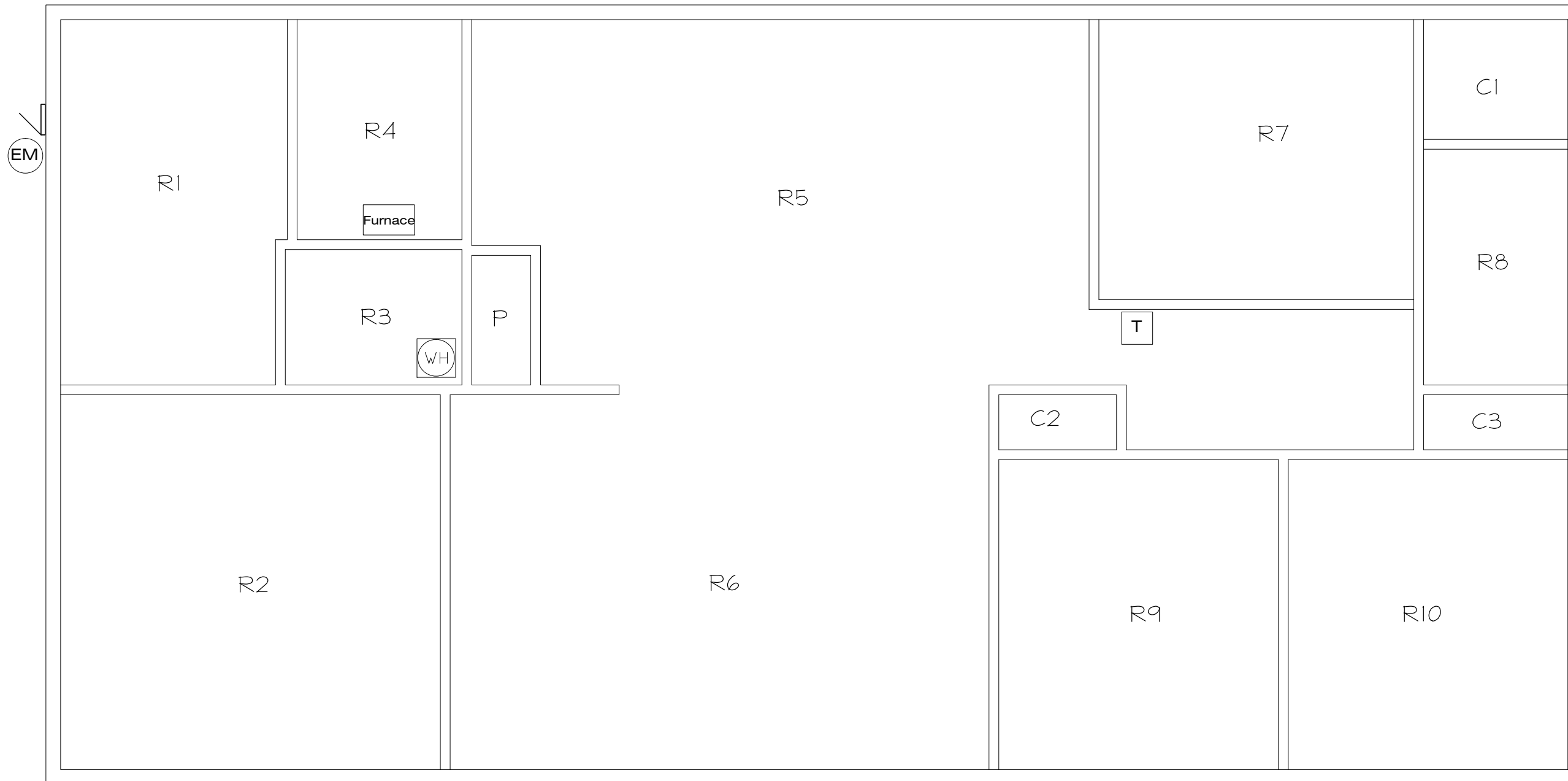
SHED 1/4"=1'-0"



ROOF 1/16"=1'-0"

FIGURE 3 - Lead Based Paint Sample Location
CENTRAL 70 - Structure Survey Assessment Map
AP-28
 4646 Vine Street, Denver, CO
 June 7, 2018
 APEC #: 18-3066

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



R1 = Room Numbers

EM = Electrical Meter

Furnace = Furnace

T = Thermostat

Breaker Panel

GM = Gas Meter

WH = Water Heater SHED 1/4"=1'-0"

ROOF 1/16"=1'-0"

DR BY: R.A.

APPROVED: B.N.E.

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

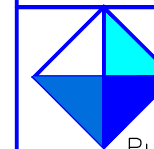
FIGURE 4 - Regulated Building Material
CENTRAL 70 - Structure Survey Assessment Map

AP-28

4646 Vine Street, Denver, CO

June 7, 2018

APEC #: 18-3066



ALL-PHASE
ENVIRONMENTAL CONSULTANTS, INC.

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

A

ASBESTOS, LEAD AND LABORATORY 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



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



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

A handwritten signature in black ink that reads "Frank Hulce".

Frank Hulce - Instructor

A handwritten signature in black ink that reads "Danaya Benedetto".

Danaya Benedetto - Training Program Manager



Colorado Department
of Public Health
and Environment

LEAD-BASED PAINT CERTIFICATION*

This certifies that

Richard L. Ralston

Certification No.: 9130

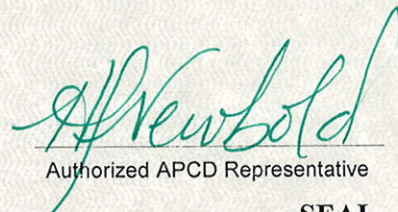
has met the requirements of 25-7-1104, C.R.S. and Air Quality Control
Commission Regulation No. 19, and is hereby certified by the state of
Colorado in the following discipline:

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 E. Peon

Luis Peon - Instructor

Danaya Benedetto

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 Communiqué 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

<u>Code</u>	<u>Description</u>
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

<u>Code</u>	<u>Description</u>
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.

A handwritten signature in black ink, appearing to read "Dana S. Laman".

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

- | | |
|---|---|
| <input checked="" type="checkbox"/> INDUSTRIAL HYGIENE | Accreditation Expires: September 01, 2018 |
| <input checked="" type="checkbox"/> ENVIRONMENTAL LEAD | Accreditation Expires: September 01, 2018 |
| <input checked="" type="checkbox"/> ENVIRONMENTAL MICROBIOLOGY | Accreditation Expires: September 01, 2018 |
| <input type="checkbox"/> FOOD | Accreditation Expires: |
| <input type="checkbox"/> UNIQUE SCOPES | 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.

William Walsh, CIH
Chairperson, Analytical Accreditation Board

Cheryl O. Morton
Managing Director, AIHA Laboratory Accreditation Programs, LLC

Revision 15: 03/30/2016

Date Issued: 08/31/2016



AIHA Laboratory Accreditation Programs, LLC SCOPE OF ACCREDITATION

EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077

Laboratory ID: **100194**

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 <i>(for internal methods only)</i>
Paint		EPA SW-846 3050B	
		EPA SW-846 7000B	
Soil		EPA SW-846 3050B	
		EPA SW-846 7000B	
Settled Dust by Wipe		EPA SW-846 3050B	
		EPA SW-846 7000B	
Airborne Dust		NIOSH 7082	
Composited Wipes		EPA SW-846 3050B	
		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>

B

POSITIVE ASBESTOS SAMPLE MATERIAL PHOTOGRAPHS



Roofing Mastic

Samples Represented –
4646V-EX-R7A
4646V-EX-R7B
4646V-EX-R7C

C

LABORATORY RESULTS & CHAIN OF CUSTODY- ASBESTOS



EMSL Analytical, Inc.

1010 Yuma Street Denver, CO 80204
Tel/Fax: (303) 740-5700 / (303) 741-1400
<http://www.EMSL.com> / denverlab@emsl.com

EMSL Order: 221804256
Customer ID: ALLP62
Customer PO:
Project ID:

Attention: Logan Greenfield
All-Phase Environmental Consultants, Inc
721 West 9th Street
Pueblo, CO 81003
Project: 18-3066-CDOT-A-AP28

Phone: (719) 250-0036
Fax: (719) 542-2807
Received Date: 06/12/2018 10:05 AM
Analysis Date: 06/15/2018
Collected Date: 06/07/2018

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
4646V-R4-PC1A-Te xture 221804256-0001	Popcorn Ceiling	White Non-Fibrous Heterogeneous		15% Ca Carbonate 85% Non-fibrous (Other)	None Detected
Inseparable paint / coating layer included in analysis					
4646V-R4-PC1A-Dr ywall 221804256-0001A	Popcorn Ceiling	Brown/Beige Fibrous Homogeneous	15% Cellulose 2% Glass	70% Gypsum 13% Non-fibrous (Other)	None Detected
4646V-R5-PC1B-Te xture 221804256-0002	Popcorn Ceiling	White Non-Fibrous Heterogeneous		15% Ca Carbonate 85% Non-fibrous (Other)	None Detected
Inseparable paint / coating layer included in analysis					
4646V-R5-PC1B-Dr ywall 221804256-0002A	Popcorn Ceiling	Brown/Beige Fibrous Homogeneous	15% Cellulose 2% Glass	70% Gypsum 13% Non-fibrous (Other)	None Detected
4646V-R7-PC1C-Te xture 221804256-0003	Popcorn Ceiling	White Non-Fibrous Heterogeneous		15% Ca Carbonate 85% Non-fibrous (Other)	None Detected
Inseparable paint / coating layer included in analysis					
4646V-R7-PC1C-Dr ywall 221804256-0003A	Popcorn Ceiling	Brown/Beige Fibrous Homogeneous	15% Cellulose 2% Glass	70% Gypsum 13% Non-fibrous (Other)	None Detected
4646V-H-PC1D-Text ure 221804256-0004	Popcorn Ceiling	White Non-Fibrous Heterogeneous		15% Ca Carbonate 85% Non-fibrous (Other)	None Detected
4646V-H-PC1D-Dry wall 221804256-0004A	Popcorn Ceiling	Tan Fibrous Homogeneous	15% Cellulose <1% Glass	65% Gypsum 20% Non-fibrous (Other)	None Detected
4646V-R10-PC1E-T exture 221804256-0005	Popcorn Ceiling	White Non-Fibrous Heterogeneous		15% Ca Carbonate 85% Non-fibrous (Other)	None Detected
Inseparable paint / coating layer included in analysis					

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: 06/15/2018 17:38:28



EMSL Analytical, Inc.

1010 Yuma Street Denver, CO 80204
Tel/Fax: (303) 740-5700 / (303) 741-1400
<http://www.EMSL.com> / denverlab@emsl.com

EMSL Order: 221804256
Customer ID: ALLP62
Customer PO:
Project ID:

Attention: Logan Greenfield
All-Phase Environmental Consultants, Inc
721 West 9th Street
Pueblo, CO 81003
Phone: (719) 250-0036
Fax: (719) 542-2807
Received Date: 06/12/2018 10:05 AM
Analysis Date: 06/15/2018
Collected Date: 06/07/2018
Project: 18-3066-CDOT-A-AP28

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
4646V-R10-PC1E-D rywall 221804256-0005A	Popcorn Ceiling	Tan Fibrous Homogeneous	15% Cellulose <1% Glass	65% Gypsum 20% Non-fibrous (Other)	None Detected
4646V-R2-TD2A-Dr ywall 221804256-0006	Texture Pattern Drywall Panels	Purple Fibrous Heterogeneous	15% Cellulose	70% Gypsum 15% Non-fibrous (Other)	None Detected
Inseparable paint / coating layer included in analysis					
4646V-R6-TD2B-Dr ywall 221804256-0007	Texture Pattern Drywall Panels	Brown/White Fibrous Heterogeneous	15% Cellulose	70% Gypsum 15% Non-fibrous (Other)	None Detected
Inseparable paint / coating layer included in analysis					
4646V-R5-TD2C-Dr ywall 221804256-0008	Texture Pattern Drywall Panels	Brown/White Fibrous Homogeneous	15% Cellulose	70% Gypsum 15% Non-fibrous (Other)	None Detected
Inseparable paint / coating layer included in analysis					
4646V-R7-TD2D-Dr ywall 221804256-0009	Texture Pattern Drywall Panels	Tan/White Fibrous Heterogeneous	15% Cellulose	70% Gypsum 15% Non-fibrous (Other)	None Detected
Inseparable paint / coating layer included in analysis					
4646V-R9-TD2E 221804256-0010	Texture Pattern Drywall Panels	Tan/Green Fibrous Homogeneous	15% Cellulose	70% Gypsum 15% Non-fibrous (Other)	None Detected
4646V-R5-WD3A-W allpaper 221804256-0011	Wallpapered Drywall	Various Fibrous Homogeneous	80% Cellulose	20% Non-fibrous (Other)	None Detected
4646V-R5-WD3A-D rywall 221804256-0011A	Wallpapered Drywall	Brown/Beige Fibrous Homogeneous	15% Cellulose 2% Glass	70% Gypsum 13% Non-fibrous (Other)	None Detected
4646V-R1-WD3B-W allpaper 221804256-0012	Wallpapered Drywall	Various Fibrous Homogeneous	80% Cellulose	20% Non-fibrous (Other)	None Detected

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

Initial report from: 06/15/2018 17:38:28



EMSL Analytical, Inc.

1010 Yuma Street Denver, CO 80204
Tel/Fax: (303) 740-5700 / (303) 741-1400
<http://www.EMSL.com> / denverlab@emsl.com

EMSL Order: 221804256
Customer ID: ALLP62
Customer PO:
Project ID:

Attention: Logan Greenfield
All-Phase Environmental Consultants, Inc
721 West 9th Street
Pueblo, CO 81003
Phone: (719) 250-0036
Fax: (719) 542-2807
Received Date: 06/12/2018 10:05 AM
Analysis Date: 06/15/2018
Collected Date: 06/07/2018
Project: 18-3066-CDOT-A-AP28

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
4646V-R1-WD3B-Dr ywall 221804256-0012A	Wallpapered Drywall	Brown/Beige Fibrous Homogeneous	15% Cellulose 2% Glass	70% Gypsum 13% Non-fibrous (Other)	None Detected
4646V-R8-WD3C-W allpaper 221804256-0013	Wallpapered Drywall	Various Fibrous Homogeneous	80% Cellulose	20% Non-fibrous (Other)	None Detected
4646V-R8-WD3C-Dr ywall 221804256-0013A	Wallpapered Drywall	Brown/Beige Fibrous Homogeneous	15% Cellulose 2% Glass	70% Gypsum 13% Non-fibrous (Other)	None Detected
4646V-R3-D4A-Dry wall 221804256-0014	Plain Drywall	Brown/Beige Fibrous Homogeneous	15% Cellulose <1% Glass	70% Gypsum 15% Non-fibrous (Other)	None Detected
4646V-C1-D4B-Dry wall 221804256-0015	Plain Drywall	Brown/Beige Fibrous Homogeneous	15% Cellulose	70% Gypsum 15% Non-fibrous (Other)	None Detected
4646V-C2-D4C 221804256-0016	Plain Drywall	Gray/Tan Fibrous Homogeneous	15% Cellulose	70% Gypsum 15% Non-fibrous (Other)	None Detected
4646V-R1-L5A 221804256-0017	White/Green Linoleum	Beige Fibrous Homogeneous	45% Cellulose 5% Glass	50% Non-fibrous (Other)	None Detected
4646V-R5-L5B 221804256-0018	White/Green Linoleum	Beige Fibrous Homogeneous	45% Cellulose 5% Glass	50% Non-fibrous (Other)	None Detected
4646V-R8-L5C 221804256-0019	White/Green Linoleum	Gray/Beige Fibrous Homogeneous	30% Cellulose 5% Glass	65% Non-fibrous (Other)	None Detected
4646V-EX-R6A-Shi ngle 221804256-0020	Roofing-Shed	Brown/Black Fibrous Homogeneous	10% Glass	90% Non-fibrous (Other)	None Detected

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

Initial report from: 06/15/2018 17:38:28



EMSL Analytical, Inc.

1010 Yuma Street Denver, CO 80204
Tel/Fax: (303) 740-5700 / (303) 741-1400
<http://www.EMSL.com> / denverlab@emsl.com

EMSL Order: 221804256
Customer ID: ALLP62
Customer PO:
Project ID:

Attention: Logan Greenfield
All-Phase Environmental Consultants, Inc
721 West 9th Street
Pueblo, CO 81003
Project: 18-3066-CDOT-A-AP28

Phone: (719) 250-0036
Fax: (719) 542-2807
Received Date: 06/12/2018 10:05 AM
Analysis Date: 06/15/2018
Collected Date: 06/07/2018

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
4646V-EX-R6A-Tar Paper 221804256-0020A	Roofing-Shed	Fibrous Homogeneous	45% Cellulose	55% Non-fibrous (Other)	None Detected
4646V-EX-R6Q-Shi ngle 221804256-0021	Roofing-Shed	Brown/Black Fibrous Homogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
4646V-EX-R6Q-Tar Paper 221804256-0021A	Roofing-Shed	Black Fibrous Homogeneous	45% Cellulose	55% Non-fibrous (Other)	None Detected
4646V-EX-R6B-Shin gle 221804256-0022	Roofing-Shed	Brown/Black Fibrous Homogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
4646V-EX-R6B-Tar Paper 221804256-0022A	Roofing-Shed	Black Fibrous Homogeneous	45% Cellulose	55% Non-fibrous (Other)	None Detected
4646V-EX-R6C-Shin gle 221804256-0023	Roofing-Shed	Brown/Black Non-Fibrous Homogeneous	8% Glass	92% Non-fibrous (Other)	None Detected
4646V-EX-R6C-Tar Paper 221804256-0023A	Roofing-Shed	Brown/Black Non-Fibrous Homogeneous	65% Cellulose	35% Non-fibrous (Other)	None Detected
4646V-EX-R7A-Shi ngle 221804256-0024	Roofing House	Black Fibrous Homogeneous	15% Glass	85% Non-fibrous (Other)	None Detected
4646V-EX-R7A-Mas tic 221804256-0024A	Roofing House	Black Non-Fibrous Homogeneous		92% Non-fibrous (Other)	8% Chrysotile
4646V-EX-R7B-Shin gle 221804256-0025	Roofing House	Black Fibrous Homogeneous	15% Glass	85% Non-fibrous (Other)	None Detected

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

Initial report from: 06/15/2018 17:38:28



EMSL Analytical, Inc.

1010 Yuma Street Denver, CO 80204
Tel/Fax: (303) 740-5700 / (303) 741-1400
<http://www.EMSL.com> / denverlab@emsl.com

EMSL Order: 221804256
Customer ID: ALLP62
Customer PO:
Project ID:

Attention: Logan Greenfield
All-Phase Environmental Consultants, Inc
721 West 9th Street
Pueblo, CO 81003
Project: 18-3066-CDOT-A-AP28

Phone: (719) 250-0036
Fax: (719) 542-2807
Received Date: 06/12/2018 10:05 AM
Analysis Date: 06/15/2018
Collected Date: 06/07/2018

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
4646V-EX-R7B-Mas tic 221804256-0025A	Roofing House	Black Non-Fibrous Homogeneous		92% Non-fibrous (Other)	8% Chrysotile
4646V-EX-R7C-Shin gle 221804256-0026	Roofing House	Black Fibrous Homogeneous	8% Glass	92% Non-fibrous (Other)	None Detected
4646V-EX-R7C-Mas tic 221804256-0026A	Roofing House	Black Non-Fibrous Homogeneous		5% Quartz 95% Non-fibrous (Other)	None Detected

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

Initial report from: 06/15/2018 17:38:28



EMSL Analytical, Inc.

1010 Yuma Street Denver, CO 80204
Tel/Fax: (303) 740-5700 / (303) 741-1400
<http://www.EMSL.com> / denverlab@emsl.com

EMSL Order: 221804256
Customer ID: ALLP62
Customer PO:
Project ID:

Attention: Logan Greenfield
All-Phase Environmental Consultants, Inc
721 West 9th Street
Pueblo, CO 81003
Project: 18-3066-CDOT-A-AP28

Phone: (719) 250-0036
Fax: (719) 542-2807
Received Date: 06/12/2018 10:05 AM
Analysis Date: 06/15/2018
Collected Date: 06/07/2018

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: 06/12/2018 Sample Receipt Time: 10:05 AM
Analysis Completed Date: 06/15/2018 Analysis Completed Time: 5:12 PM

Analyst(s):

Gentry Catlett PLM (29)

Timothy Kleehammer PLM (12)

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

Initial report from: 06/15/2018 17:38:28



EMSL ANALYTICAL, INC.
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Asbestos Chain of Custody

EMSL Order Number (Lab Use Only):

221804256

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

Company: All-Phase Environmental Consultants, Inc.		EMSL-Bill to: <input type="checkbox"/> Different <input checked="" type="checkbox"/> Same <small>If Bill to is Different note instructions in Comments**</small>	
Street: 721 W. 9th Street		<i>Third Party Billing requires written authorization from third party</i>	
City: Pueblo	State/Province: CO	Zip/Postal Code: 81003	Country: United States
Report To (Name): Logan Greenfield		Telephone #: 719-250-0036	
Email Address: logan@allphaseenvironmental.com		Fax #:	Purchase Order:
Project Name/Number: 18-3066-CDOT-A-AP28		Please Provide Results: <input type="checkbox"/> FAX <input checked="" type="checkbox"/> E-mail <input type="checkbox"/> Mail	
U.S. State Samples Taken: CO		Connecticut Samples: <input type="checkbox"/> Commercial <input type="checkbox"/> Residential	

Turnaround Time (TAT) Options* - Please Check

3 Hour
 6 Hour
 24 Hour
 48 Hour
 72 Hour
 96 Hour
 1 Week
 2 Week

*For TEM Air 3 hr through 6 hr, please call ahead to schedule. *There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.

PCM - Air <input type="checkbox"/> Check if samples are from NY <input type="checkbox"/> NIOSH 7400 <input type="checkbox"/> w/ OSHA 8hr. TWA PLM - Bulk (reporting limit) <input checked="" type="checkbox"/> PLM EPA 600/R-93/116 (<1%) <input type="checkbox"/> PLM EPA NOB (<1%) Point Count <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) Point Count w/Gravimetric <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) <input type="checkbox"/> NYS 198.1 (friable in NY) <input type="checkbox"/> NYS 198.6 NOB (non-friable-NY) <input type="checkbox"/> NIOSH 9002 (<1%)	TEM - Air <input type="checkbox"/> 4-4.5hr TAT (AHERA only) <input type="checkbox"/> AHERA 40 CFR, Part 763 <input type="checkbox"/> NIOSH 7402 <input type="checkbox"/> EPA Level II <input type="checkbox"/> ISO 10312 TEM - Bulk <input type="checkbox"/> TEM EPA NOB <input type="checkbox"/> NYS NOB 198.4 (non-friable-NY) <input type="checkbox"/> Chatfield SOP <input type="checkbox"/> TEM Mass Analysis-EPA 600 sec. 2.5 TEM - Water: EPA 100.2 Fibers >10µm <input type="checkbox"/> Waste <input type="checkbox"/> Drinking All Fiber Sizes <input type="checkbox"/> Waste <input type="checkbox"/> Drinking	TEM- Dust <input type="checkbox"/> Microvac - ASTM D 5755 <input type="checkbox"/> Wipe - ASTM D6480 <input type="checkbox"/> Carpet Sonication (EPA 600/J-93/167) Soil/Rock/Vermiculite <input type="checkbox"/> PLM CARB 435 - A (0.25% sensitivity) <input type="checkbox"/> PLM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> TEM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> TEM CARB 435 - C (0.01% sensitivity) <input type="checkbox"/> TEM Qual. via Filtration Technique <input type="checkbox"/> TEM Qual. via Drop-Mount Technique Other: <input type="checkbox"/>
---	--	---

Check For Positive Stop - Clearly Identify Homogenous Group Filter Pore Size (Air Samples): 0.8µm 0.45µm

Samplers Name: Logan Greenfield Samplers Signature: *[Signature]*

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled	
4646V-R4-PC1A	Popcorn Ceiling		6-7-18	
4646V-R5-PC1B	↓			
4646V-R7-PC1C				
4646V-H-PC1D				
4646V-R10-PC1E				
4646V-R2-TD2A	Texture Pattern Drywall Panels			
4646V-R6-TD2B	↓			
4646V-R5-TD2C				

Client Sample # (s): _____ Total # of Samples: 26

Relinquished (Client): *[Signature]* Date: 6-11-18 Time: 5:20

Received (Lab): *[Signature]* Date: 6/12/18 Time: 10:05

Comments/Special Instructions: EFT 7955 0259480



EMSL ANALYTICAL, INC.
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Asbestos Chain of Custody

EMSL Order Number (Lab Use Only):

221864256

Denver, CO 80204
PHONE: (303) 740-5700
FAX: (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
4646V-R7-TD2D	Texture Pattern Drywall Panels		6-7-18
4646V-R9-TD2E	↓		
4646V-R5-WD3A	Wallpapered Drywall		
4646V-R1-WD3B	↓		
4646V-R8-WD3C	Plain Drywall		
4646V-R3-D4A	↓		
4646V-C1-D4B	White/Green Linoleum		
4646V-C2-D4C	↓		
4646V-R1-L5A	Roofing - Shed		
4646V-R5-L5B	↓		
4646V-R8-L5C	Roofing - House		
4646V-EX-R6A	↓		
4646V-EX-R6Q			
4646V-EX-R6B	↓		
4646V-EX-R6C			
4646V-EX-R7A			
4646V-EX-R7B	↓		
4646V-EX-R7C			
/			
*Comments/Special Instructions:			

D

LABORATORY RESULTS & CHAIN OF CUSTODY - LEAD & TCLP



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: 201806328

CustomerID: 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: 06/13/18 9:00 AM
Collected: 6/7/2018

Project: **18-3066-C70-L-AP-28**

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

<i>Client Sample Description</i>	<i>Lab ID</i>	<i>Collected</i>	<i>Analyzed</i>	<i>Weight</i>	<i>Lead Concentration</i>
4646V-R6-L1 Site: Green Mint - Hallway - Drywall	201806328-0001	6/7/2018	6/14/2018	0.2751 g	<0.0080 % wt
4646V-R6-2L Site: Room 6 - Wood - White	201806328-0002	6/7/2018	6/14/2018	0.2662 g	<0.0080 % wt
4646V-R3-L3 Site: Room 3 - Dining Room - Drywall - Tan	201806328-0003	6/7/2018	6/14/2018	0.2702 g	<0.0080 % wt
4646V-R4-L4 Site: Room 4 - Laundry - Drywall - White	201806328-0004	6/7/2018	6/14/2018	0.2709 g	<0.0080 % wt
4646V-H-L5 Site: Room Hallway - Drywall - Gray	201806328-0005	6/7/2018	6/14/2018	0.2720 g	0.018 % wt
4646V-R9-L6 Site: Room 9 Bedroom - Drywall - Purple	201806328-0006	6/7/2018	6/14/2018	0.2616 g	<0.0080 % wt
4646V-R9-L7 Site: Room 9 Bedroom - Drywall - Pink	201806328-0007	6/7/2018	6/14/2018	0.2589 g	<0.0080 % wt
4646V-R10-L8 Site: Room 10 Bedroom - Drywall - Black	201806328-0008	6/7/2018	6/14/2018	0.2715 g	<0.0080 % wt
4646V-S-L9 Site: Shed - Wood - Gray	201806328-0009	6/7/2018	6/14/2018	0.2906 g	<0.0080 % wt

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 06/15/2018 16:41:07

Lead



EMSL ANALYTICAL, INC.
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Lead (Pb) Chain of Custody EMSL Order ID (Lab Use Only):

201806328

EMSL Analytical, Inc.
200 Route 130 North

Cinnaminson, NJ 08077
PHONE: 1-800-220-3675
FAX: (856) 786-5974

Company: All-Phase Environmental Consultants, Inc		EMSL-Bill to: <input checked="" type="checkbox"/> Same <input type="checkbox"/> Different If Bill to is Different note instructions in Comments**		
Street: 721 West 9th Street		Third Party Billing requires written authorization from third party		
City: Pueblo	State/Province: CO	Zip/Postal Code: 81003	Country: US	
Report To (Name): Richard Ralston		Telephone #: 7192256953		
Email Address: rick@allphaseenvironmental.com		Fax #: 719-542-2807	Purchase Order:	
Project Name/Number: 18-3066-C70-L-AP-28		Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email		
U.S. State Samples Taken: CO		CT Samples: <input type="checkbox"/> Commercial/Taxable <input type="checkbox"/> Residential/Tax Exempt		
Turnaround Time (TAT) Options* - Please Check				
<input type="checkbox"/> 3 Hour	<input type="checkbox"/> 6 Hour	<input type="checkbox"/> 24 Hour	<input type="checkbox"/> 48 Hour	
<input checked="" type="checkbox"/> 72 Hour	<input type="checkbox"/> 96 Hour	<input type="checkbox"/> 1 Week	<input type="checkbox"/> 2 Week	
<small>*Analysis completed in accordance with EMSL's Terms and Conditions located in the Price Guide</small>				
Matrix	Method	Instrument	Reporting Limit	Check
Chips <input checked="" type="checkbox"/> % by wt. <input type="checkbox"/> mg/cm ² <input type="checkbox"/> ppm (mg/kg)	SW846-7000B	Flame Atomic Absorption	0.01%	<input checked="" type="checkbox"/>
Air	NIOSH 7082	Flame Atomic Absorption	4 µg/filter	<input type="checkbox"/>
	NIOSH 7105	Graphite Furnace AA	0.03 µg/filter	<input type="checkbox"/>
	NIOSH 7300M/NIOSH 7303	ICP-OES	0.5 µg/filter	<input type="checkbox"/>
Wipe* <input type="checkbox"/> ASTM non ASTM <input type="checkbox"/> <small>*if no box checked, non-ASTM Wipe assumed</small>	SW846-7000B	Flame Atomic Absorption	10 µg/wipe	<input type="checkbox"/>
	SW846-6010B or C	ICP-OES	1.0 µg/wipe	<input type="checkbox"/>
TCLP	SW846-1311/7000B/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	SW846-1311/SW846-6010B or C	ICP-OES	0.1 mg/L (ppm)	<input type="checkbox"/>
SPLP	SW846-1312/7000B/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	SW846-1312/SW846-6010B or C	ICP-OES	0.1 mg/L (ppm)	<input type="checkbox"/>
TTLC	22 CCR App. II, 7000B/7420	Flame Atomic Absorption	40 mg/kg (ppm)	<input type="checkbox"/>
	22 CCR App. II, SW846-6010B or C	ICP-OES	2 mg/kg (ppm)	<input type="checkbox"/>
STLC	22 CCR App. II, 7000B/7420	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	22 CCR App. II, SW846-6010B or C	ICP-OES	0.1 mg/L (ppm)	<input type="checkbox"/>
Soil	SW846-7000B	Flame Atomic Absorption	40 mg/kg (ppm)	<input type="checkbox"/>
	SW846-6010B or C	ICP-OES	2 mg/kg (ppm)	<input type="checkbox"/>
Wastewater Unpreserved <input type="checkbox"/> Preserved with HNO ₃ pH < 2 <input type="checkbox"/>	SM3111B/SW846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.7	ICP-OES	0.020 mg/L (ppm)	<input type="checkbox"/>
Drinking Water Unpreserved <input type="checkbox"/> Preserved with HNO ₃ pH < 2 <input type="checkbox"/>	EPA 200.8	ICP-MS	0.001 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.5	ICP-OES	0.003 mg/L (ppm)	<input type="checkbox"/>
TSP/SPM Filter	40 CFR Part 50	ICP-OES	12 µg/filter	<input type="checkbox"/>
	40 CFR Part 50	Graphite Furnace AA	3.6 µg/filter	<input type="checkbox"/>
Other:				<input type="checkbox"/>
Name of Sampler: Rick Ralston		Signature of Sampler: RRalston		
Sample #	Location	Volume/Area	Date/Time Sampled	
414W-R6-1L	Green Mt. hallway drywall	mult Green	6/2/2018	
-2L	Room 6 wood -	white	"	
Client Sample #s	-	Total # of Samples:	9	
Relinquished (Client):	RRalston	Date: June 6 - 2018	Time: 16:00	
Received (Lab):	[Signature]	Date: 6/12/18	Time: 605pm	
Comments: Bill To: All-Phase Environmental Consultants, Inc, 721 West 9th Street, Pueblo, CO, 81003, US Attention: Brandice Eslinger Phone: 719-240-4690 Email: brandice@allphaseenvironmental.com Purchase Order:				

9R14



EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

EMSL Analytical, Inc.
200 Route 130 North

Cinnaminson, NJ 08077

PHONE: 1-800-220-3675
FAX: (856) 786-5974

LEAD (Pb) CHAIN OF CUSTODY

EMSL ORDER ID (Lab Use Only):

201806328

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

Sample #	Location	Volume/Area	Date/Time Sampled
4646V-R3-L3	Room 3 - Diner Room - Dry wash	PAN	
4646V-R4-L4	Room 4 Laundry Dry wash	White Dry wash	
4646V-H-L5	Room Hallway Dry wash	GRAY	
4646V-R9-L6	Room 9 Bedroom DRY WASH	Purple	
4646V-R9-L7	Room 9 Bedroom Dry wash	Pink	
4646V-R10-L8	Room 10 - Bedroom - Bedroom Dry wash	Black	
4646V-S-L9	Shed - wood	GRAY	

Comments/Special Instructions:

Bill To: All-Phase Environmental Consultants, Inc, 721 West 9th Street, Pueblo, CO, 81003, US
Attention: Brandice Eslinger Phone: 719-240-4690 Email: brandice@allphaseenvironmental.com Purchase Order:

Controlled Document -- COC-25 Lead (Pb) - R8 - 7/19/2017



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: 201806334
CustomerID: 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: 06/13/18 9:00 AM
Collected: 6/7/2018

Project: **18-3066-C70-L-AP-28**

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

<i>Client Sample Description</i>	<i>Lab ID</i>	<i>Collected</i>	<i>Analyzed</i>	<i>Lead Concentration</i>
4646V-AP28-TCLP-1	201806334-0001	6/7/2018	6/15/2018	<0.40 mg/L
Site: TCLP- Bld AP-28				

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 06/18/2018 13:10:46



EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRAINING
LABORATORY PRODUCTS TRAINING

TCLP

Lead (Pb) Chain of Custody EMSL Order ID (Lab Use Only):

201806334

EMSL Analytical, Inc.
200 Route 130 North

Cinnaminson, NJ 08077
PHONE: 1-800-220-3675
FAX: (856) 786-5974

Company: All-Phase Environmental Consultants, Inc		EMSL-Bill to: <input checked="" type="checkbox"/> Same <input type="checkbox"/> Different If Bill to is Different note instructions in Comments**		
Street: 721 West 9th Street		Third Party Billing requires written authorization from third party		
City: Pueblo	State/Province: CO	Zip/Postal Code: 81003	Country: US	
Report To (Name): Richard Ralston		Telephone #: 7192256953		
Email Address: rick@allphaseenvironmental.com		Fax #: 719-542-2807	Purchase Order:	
Project Name/Number: 18-3066-C70-L-AP-28		Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email		
U.S. State Samples Taken: CO		CT Samples: <input type="checkbox"/> Commercial/Taxable <input type="checkbox"/> Residential/Tax Exempt		
Turnaround Time (TAT) Options* - Please Check				
<input type="checkbox"/> 3 Hour	<input type="checkbox"/> 6 Hour	<input type="checkbox"/> 24 Hour	<input type="checkbox"/> 48 Hour	
<input checked="" type="checkbox"/> 72 Hour	<input type="checkbox"/> 96 Hour	<input type="checkbox"/> 1 Week	<input type="checkbox"/> 2 Week	
<small>*Analysis completed in accordance with EMSL's Terms and Conditions located in the Price Guide</small>				
Matrix	Method	Instrument	Reporting Limit	Check
Chips <input type="checkbox"/> % by wt. <input type="checkbox"/> mg/cm ² <input type="checkbox"/> ppm (mg/kg)	SW846-7000B	Flame Atomic Absorption	0.01%	<input type="checkbox"/>
Air	NIOSH 7082	Flame Atomic Absorption	4 µg/filter	<input type="checkbox"/>
	NIOSH 7105	Graphite Furnace AA	0.03 µg/filter	<input type="checkbox"/>
	NIOSH 7300M/NIOSH 7303	ICP-OES	0.5 µg/filter	<input type="checkbox"/>
Wipe* <input type="checkbox"/> ASTM <input type="checkbox"/> non ASTM <input type="checkbox"/> <small>*if no box checked, non-ASTM Wipe assumed</small>	SW846-7000B	Flame Atomic Absorption	10 µg/wipe	<input type="checkbox"/>
	SW846-6010B or C	ICP-OES	1.0 µg/wipe	<input type="checkbox"/>
TCLP	SW846-1311/7000B/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input checked="" type="checkbox"/>
	SW846-1311/SW846-6010B or C	ICP-OES	0.1 mg/L (ppm)	<input type="checkbox"/>
SPLP	SW846-1312/7000B/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	SW846-1312/SW846-6010B or C	ICP-OES	0.1 mg/L (ppm)	<input type="checkbox"/>
TTLIC	22 CCR App. II, 7000B/7420	Flame Atomic Absorption	40 mg/kg (ppm)	<input type="checkbox"/>
	22 CCR App. II, SW846-6010B or C	ICP-OES	2 mg/kg (ppm)	<input type="checkbox"/>
STLC	22 CCR App. II, 7000B/7420	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	22 CCR App. II, SW846-6010B or C	ICP-OES	0.1 mg/L (ppm)	<input type="checkbox"/>
Soil	SW846-7000B	Flame Atomic Absorption	40 mg/kg (ppm)	<input type="checkbox"/>
	SW846-6010B or C	ICP-OES	2 mg/kg (ppm)	<input type="checkbox"/>
Wastewater Unpreserved <input type="checkbox"/> Preserved with HNO ₃ pH < 2 <input type="checkbox"/>	SM3111B/SW846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.7	ICP-OES	0.020 mg/L (ppm)	<input type="checkbox"/>
Drinking Water Unpreserved <input type="checkbox"/> Preserved with HNO ₃ pH < 2 <input type="checkbox"/>	EPA 200.8	ICP-MS	0.001 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.5	ICP-OES	0.003 mg/L (ppm)	<input type="checkbox"/>
TSP/SPM Filter	40 CFR Part 50	ICP-OES	12 µg/filter	<input type="checkbox"/>
	40 CFR Part 50	Graphite Furnace AA	3.6 µg/filter	<input type="checkbox"/>
Other:				<input type="checkbox"/>
Name of Sampler: <i>Richard Ralston</i>		Signature of Sampler: <i>R. Ralston</i>		
Sample #	Location	Volume/Area	Date/Time Sampled	
<i>4046V-AP28-TCLP-1</i>	<i>TCLP - bld AP-28</i>	<i>1/2 lb of material</i>	<i>June 7-2018</i>	
Client Sample #s	-	Total # of Samples:	<i>1</i>	
Relinquished (Client):	<i>R. Ralston</i>	Date:	<i>6/7/2018</i>	
		Time:	<i>16:00</i>	
Received (Lab):	<i>[Signature]</i>	Date:	<i>6/12/18</i>	
		Time:	<i>605pm</i>	
Comments: Bill To: All-Phase Environmental Consultants, Inc, 721 West 9th Street, Pueblo, CO, 81003, US Attention: Brandice Eslinger Phone: 719-240-4690 Email: brandice@allphaseenvironmental.com Purchase Order: <i>ced@mc 6/13/18 9am</i>				

TRW

3b. Pre-Demolition Engineering Survey

Pre-Demolition Survey
And General Demolition Plan
For
4646 Vine Street
Denver, CO 80216



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

July 2, 2018
Project No: 180113

July 2, 2018

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

Re: 4646 Vine Street, Denver, CO 80216
Pre-Demolition Engineering Survey per OSHA 1926.850(a)
And General Demolition Plan

Date of Observation: 06/27/18

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 Wednesday, June 27, 2018.

For the purpose of this report, there are two buildings on the property. The front elevation of the residence faces south and is perpendicular to Vine Street. An unattached storage shed is located on the east side of the residence. At the time of our visit the buildings were vacant.

The purpose of our site visit was twofold:

1. To give an assessment of the current condition of the structures 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. **OSHA 1926.850(a):** *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.*

Project Specific Applicability: 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. **OSHA 1926.85(b):** *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.*

Project Specific Applicability: 4646 Vine 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. **OSHA 1926.850(c):** *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.*

Project Specific Applicability: 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. **OSHA 1926.850(d):** *If it is necessary to maintain any power, water or other utilities during demolition, such lines shall be temporarily relocated, as necessary, and protected.*

Project Specific Applicability: The demolition of 4646 Vine Street, Denver, CO 80216 does not require any power, water or other utilities.

- e. **OSHA 1926.850(e):** *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.*

Project Specific Applicability: 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.*

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

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

Project Specific Applicability: 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.*

Project Specific Applicability: 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.*

Project Specific Applicability: 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.*

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

- j. **1926.850(k):** *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.*

Project Specific Applicability: 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 crawlspace with concrete foundation walls. The residence is approximately 27'x52' with the long direction oriented east to west. The wall and roof framing is assumed to be composed of dimension lumber framing. The residence appears to be a modular home constructed approximately in 2001. The storage shed is a wood-framed structure approximately 8'x10' and does not appear to be on a foundation.

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 building superstructure may be collapsed into the crawlspace starting at either the east or west sides of the building and proceeding thru the length of the building in the east/west direction. The north side of the building is in close proximity to the north property line. The property located to the north was not scheduled for demolition at the time of our observation. Once the roof, wall, and floor systems are demolished, foundation 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.



Glen L. Wilson, E.I.
Design Engineer

Reviewed By:



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

4. Materials Summary

December 26, 2018

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

RE: AP-28 4646 Vine St. – Summary of Removed Materials

Dear Jenn,

Below is a summary of the materials removed from 4646 Vine St.

Material Removed	Quantity
Regulated Building Materials	16 Lightbulbs and 1 gal Latex Paint
Clean Demolition Debris	302,400 lbs
Recycled Metals (Steel and Copper, Unsegregated)	4,900 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

5. Waste Manifests

5a. Regulated Building Materials (RBMs) Waste Manifests

WASTE BILL OF LADING & CERTIFICATE OF RECYCLING		P/U Fees: \$25 \$30 \$40 \$45 \$55 \$65 \$75 \$85 \$95 \$105 \$115 \$125 \$135 \$145 \$155 Labor Charges: \$ Off Spec. Charge: \$	BOL#: 27201
<input checked="" type="checkbox"/> Universal Waste <input type="checkbox"/> TSCA Waste <input type="checkbox"/> Special Waste	4' Jumbo ___ 4' Box ___ 8' Jumbo ___ 8' Box ___ HID Box ___ Battery Box ___ 6.5 Gallon Pale ___ 14-G PD ___ 30-G PD ___ 55-G PD ___ CY Bx ___ 95-G PD ___ 55-G SD ___ 85-G SD ___ GL Box ___	Bill To: <u>JKS Ind</u> Name: <u>JKS Industries</u> Address: <u>747 Sheridan Blvd.</u> City, State, Zip: <u>Lakewood Co. 80214</u> Contact: <u>Jeff Knight</u> Phone: <u>720-402-4410</u> Fax: ___ PO# ___ Job# ___	Shipment Date: <u>11/6/18</u> Emergency Contact (877) 331-2149 Extension 4
Generator Of Waste: Name: Address: City, State, Zip: Contact: Phone: Fax: PO# Job#			

WASTE BROKERAGE FACILITY: <input checked="" type="checkbox"/> R8E, LLC 4810 Newport Street Commerce City Colorado 80033-2244 (p) 303-424-4887 (f) 303-424-9193 Email: Mike@R8Enviro.com www.R8Enviro.com	EPA ID#: COR000231449 Destination Facility For Universal Waste Large Quantity Handler of Universal Waste Hazardous Waste Transporter/Transfer Facility Used Oil Transporter/Transfer Facility US DOT #: 050108 550 051Q HMP-20746 US DOT #1781660 CO TSCA - EPA Approved PCB Handler
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Container		Waste Common Name	DOT Description	Total Quantity	Unit / Wt. Volume
Count	Type				
		4' & UNDER FLUORESCENT LAMP/S RECYCLING	Non-DOT Regulated (per 49 CFR 173.164(e))		
2	CF	5' & OVER FLUORESCENT LAMP/S RECYCLING	Non-DOT Regulated (per 49 CFR 173.164(e))	12	ea
		UTUBE FLUORESCENT LAMP/S RECYCLING	Non-DOT Regulated (per 49 CFR 173.164(e))		
		CIRCULAR FLUORESCENT LAMP/S RECYCLING	Non-DOT Regulated (per 49 CFR 173.164(e))		
1	CF	COMPACT FLUORESCENT LAMP/S RECYCLING	Non-DOT Regulated (per 49 CFR 173.164(e))	49	ea
		HID MERCURY/HALIDE/SODIUM LAMP/S RECYCLING	Non-DOT Regulated (per 49 CFR 173.164(e))	21	ea
		SHIELD/COATED/GROOVED LAMP/S RECYCLING	Non-DOT Regulated (per 49 CFR 173.164(e))		
		INCANDESCENT LAMP/S RECYCLING	Non-DOT Regulated (per 49 CFR 173.164(e))	36	ea
		UV/ARC/IGNITRON LAMP/S RECYCLING	Non-DOT Regulated (per 49 CFR 173.164(e))		
		BROKEN LAMP/S RECYCLING	Non-DOT Regulated (per 49 CFR 173.164(e))		
		CRUSHED FLUORESCENT LAMP/S RECYCLING (processed)	Non-DOT Regulated (per 49 CFR 173.164(e))		
		PCB WASTE RECYCLE/INCINERATION/MICROENCAP	RQ, UN3432, Polychlorinated biphenyls, Solid, 9, PGIII, ERG#171		
		NON-PCB BALLAST RECYCLE/MICROENCAPSULATION	Non-RCRA / Non-DOT Regulated Waste		
		ESCRAP RECYCLING	Non-DOT Regulated	110	P
		MERCURY DEVICE RECYCLING	UN3506, Mercury Contained in Manufactured Articles, 8 (6.1), PGIII, ERG#172		
		LEAD ACID BATTERY RECYCLING	UN2794, Batteries, Wet Filled w/ Acid, 8, PGIII, ERG#154		
		ALKALINE BATTERY RECYCLING	Batteries, Dry, sealed, n.o.s. Specail Provision 130		
		NICKEL (Ni-Cad) BATTERY RECYCLING	Batteries, Dry, sealed, n.o.s. Specail Provision 130		
		LITHIUM METAL BATTERY RECYCLING - DOT 173.185(d)	UN3090, Lithium Batteries, 9, PGII, ERG#138		
		LITHIUM Ion BATTERY RECYCLING - DOT 173.185(d)	UN3480, Lithium Batteries, 9, PGII, ERG#138		
		WASTE OIL RECYCLING	Special Waste Liquid	1	GAZ
		WASTE GLYCOL RECYCLING	Special Waste Liquid		
		WASTE AEROSOLS	UN1950, Aerosols, Flammable, 2.1, ERG#126		
71	Gallon	WASTE LATEX PAINT	Special Waste Liquid	71	GAZ
		LOW RADIATION CONTAINING SMOKE DETECTORS	Special Waste Solid, Nuclear Regulatory Law 10 CFR 32.37		
		FIRE EXTINGUISHER(S)	Special Waste Solid		
		METALS RECYCLING	Special Waste Solid		
		MISCELLANEOUS RECYCLING <u>3 MICROWAVES</u>			
		MISCELLANEOUS RECYCLING <u>6 Large Fridges</u>		6	ea

Generator Certification: This is to certify that the above named materials are properly classified, described, packaged, marked, and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. Unpaid invoices will be assigned to a licensed Collection Agency and subject to Collection Agency Fee's, Attorney's Fee's, Court Costs and Interest.

Signature: _____	Title: <u>Operator</u>	Print Name: <u>Jesus Casado</u>	Date: <u>11-6-18</u>
Transporter 1 Name: <u>Jesus Casado</u>	Transporter 2 Name: _____	Phone Number: <u>720-245-1685</u>	Phone Number: _____
Signature: _____	Date: <u>11-6</u>	Signature: _____	Date: _____

Receiving, subject to the classification and regulations in effect on the date of issue of the Bill of Lading, the property described above is in apparent good order. Please retain a copy of this document as the "Certification of Recycling" for the items and quantities listed above.

Signature: _____ Date: 11/6/18

6. Weight Tickets

6a. Daily Load Trackers and Associated Truck Tickets

Daily Load Tracker

Date:

11-8-18

Project:

18-309 - Apr 28

Prepared By:

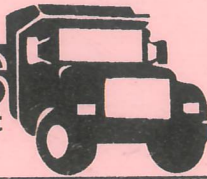
Jesus Casado

Dump Site Ticket

	Arrival Time	Departure Time	Load #	Truck #	Material		Tons/Yards	Dump Site	Ticket Number
					Code	Description			
1-8	11:00	11:30	1	CH 333	trash	Demo debris	18 yds	Dads	
	1:20	1:50	2	CH 333	trash	Demo debris	18 yds	Dads	
	3:15	3:50	3	CH 333	trash	Demo debris	18 yds	Dads	
1-9	8:00	8:25	4	CH 575	trash	Demo debris	18 yds	Dads	
	8:25	8:50	5	CH 333	trash	Demo debris	18 yds	Dads	
	10:00	10:20	6	CH 575	trash	Demo debris	18 yds	Dads	
	10:20	10:45	7	CH 333	trash	Demo debris	18 yds	Dads	
	12:25	12:50	8	CH 575	trash	Demo debris	18 yds	Dads	
	12:50	1:15	9	CH 333	trash	Demo debris	18 yds	Dads	
	2:50	3:15	10	CH 575	trash	Demo debris	18 yds	Dads	
	3:15	3:40	11	CH 333	trash	Demo debris	18 yds	Dads	
11-9	7:05	7:25	12	CH 333	Steel	Rocky Mounta			
	7:50	8:15	13	CH 575	trash	Demo debris	18 yds	Dads	

Legend:
Materials:
 R = Recycle
 T = Trash
Description:
 Concrete, Asphalt, Asbestos, Lumber,
 Construction Debris, Trash, Metals,

CHACON'S
construction & transport



Ap 28

No. 8016

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

BILL TO: J.A.S.
DISPATCHED BY: Chacon's
DATE: 11/9/18 **JOB DESCRIPTION:** Central 70 Project
TRUCK # CH575
TANDEM **TRAILER**
MATERIAL Demos

	LOADS	UNLOADS
JOB#	1	D.A.T.S
LOAD AT Hay 70 Brighton Bld	1 1 1	D.A.T.S. D.A.T.S. D.A.T.S.
UNLOAD AT D.A.T.S. Hamban		
RATE \$		
HOURLY <input type="checkbox"/> TONMILE <input type="checkbox"/>		
START TIME 8:00		
STOP TIME 5:00		
TOTAL HOURS		

9 hrs

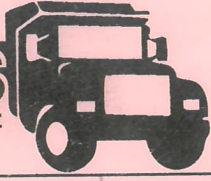
OWNER OF TRUCK:

DRIVER'S NAME Jose	AUTHORIZED SIGNATURE [Signature]
------------------------------	--

Net due 30 days from date of this statement. Past due accounts bear interest at 1.5% per month. In the event collection of this account becomes necessary, client agrees to pay all costs and reasonable attorney fees.

AP-28

CHAACONS
construction & transport



No. 8578

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

BILL TO: JKs. Carl	
DISPATCHED BY: Chacons Carl	
DATE: 11-8-18	JOB DESCRIPTION: brighton. blvd.
TRUCK # C11323	
TANDEM <input type="checkbox"/> TRAILER <input checked="" type="checkbox"/>	
MATERIAL D.A	

	LOADS	UNLOADS
JOB#	1000 #	
LOAD AT	11:25 Deds	HP28
Hwy to	1:30 Deds	HP28
i	3:30 deds	HP28
brighton blvd		
UNLOAD AT		
Deds pst		
RATE \$		
HOURLY <input type="checkbox"/> TONMILE <input type="checkbox"/>		
START TIME 8:00		
STOP TIME 5:30		
TOTAL HOURS		

9 1/2

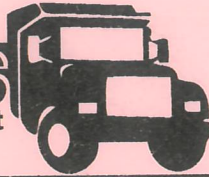
OWNER OF TRUCK:

DRIVER'S NAME	AUTHORIZED SIGNATURE
Justin Castello	[Signature]

Net due 30 days from date of this statement. Past due accounts bear interest at 1.5% per month. In the event collection of this account becomes necessary, client agrees to pay all costs and reasonable attorney fees.

CHACON'S

construction & transport



AP-28

No. 8579

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

BILL TO: JMS Const

DISPATCHED BY: Chacon's Const

DATE: 11-9-18 **JOB DESCRIPTION:**

TRUCK # CH333 **Brighton Blvd**

TANDEM **TRAILER**

MATERIAL Dirt

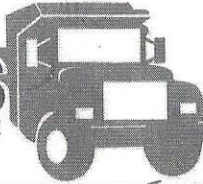
	LOADS	UNLOADS
JOB#	10023#	
LOAD AT 70' city + Brighton Blvd	5:20 deds	Ap 28
	10:21 deds	Ap. 28
	12:35 deds	Ap 28
	3:00 deds	Ap 28
UNLOAD AT Deds Pit		
RATE \$		
HOURLY <input type="checkbox"/> TONMILE <input type="checkbox"/>		
START TIME 8:00		
STOP TIME 5:00		
TOTAL HOURS		
9 hrs		

OWNER OF TRUCK:

DRIVER'S NAME	AUTHORIZED SIGNATURE
Justin Costello	[Signature]

Net due 30 days from date of this statement. Past due accounts bear interest at 1.5% per month. In the event collection of this account becomes necessary, client agrees to pay all costs and reasonable attorney fees.

CHACON'S
construction & transport



No. 50341

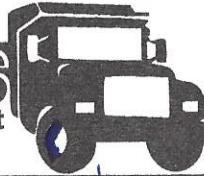
2920 W. 73rd Ave
Westminster, CO 80030
FAX 303-487-5731
PH 720-357-1448

BILL TO: J.F.S		
DISPATCHED BY: Chacon's		
DATE: 11/14/18	JOB DESCRIPTION: Demo	
TRUCK #: CH575		
TANDEM <input type="checkbox"/> TRAILER <input checked="" type="checkbox"/>		
MATERIAL: Demo		
	LOADS	UNLOADS
JOB#	1	DADS
LOAD AT	1	DADS
Hwy 70	1	DADS
Brighton Blvd.	1	DADS
UNLOAD AT		(8)
DA-DS		
RATE \$		
HOURLY <input type="checkbox"/> TONMILE <input type="checkbox"/>		
START TIME 7:00		
STOP TIME 7:15		
TOTAL HOURS		
12.25		
	OWNER OF TRUCK:	
DRIVER'S NAME	AUTHORIZED SIGNATURE	
Jase	[Signature]	

Not due 30 days from date of this statement. Past due accounts bear interest at 1.5% per month. In the event collection of this account becomes necessary, client agrees to pay all costs and reasonable attorney fees.

CHAACONS

construction & transport



No. 8583

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

BILL TO: JKS Const		
DISPATCHED BY: Chacon Const		
DATE: 11-14-18	JOB DESCRIPTION:	
TRUCK # CH 333		
TANDEM <input type="checkbox"/> TRAILER <input checked="" type="checkbox"/>		
MATERIAL Dirt		
	LOADS	UNLOADS
JOB#	10 rods #	
LOAD AT	7:20	Rocky mountain
Hwy 70	10:00	dads Ap-8
	3:00	clads Ap-8
brinton blvd	5:00	dads Ap-8
UNLOAD AT		(u)
Dales prt		
RATE \$		
HOURLY <input type="checkbox"/> TONMILE <input type="checkbox"/>		
START TIME 7:00		
STOP TIME 7:00pm		
TOTAL HOURS		
12 hrs	✓ HP	
OWNER OF TRUCK:		
DRIVER'S NAME	AUTHORIZED SIGNATURE	
Justin Costello	[Signature]	
<small>Net due 30 days from date of this statement. Past due accounts bear interest at 1.5% per month. In the event collection of this account becomes necessary, client agrees to pay all costs and reasonable attorney fees.</small>		

6b. Recycling Weight Tickets

AP-28 material

Rocky Mountain Recycling, Inc.
6510 Brighton Blvd.
Phone 303 288-6868
Fax 303 288-0250
Colorado Certified Scale #2

57144
JKS INDUSTRIES
414 14TH STREET
DENVER, CO 80202

Ticket# 5122836
Total \$ \$0.00
Total Lbs 4,900

November 14, 2018

Weighmaster: JMADERA
Driver:
Tag No:

Driver: Outside Carriers,
Truck#:

Description:
Container In:
Container Out:

Notes: 70TH & BRIGHTON



Commercial Ticket - Number: 5122836

<u>Commodity</u>	<u>Gross</u>	<u>Tare</u>	<u>Tare2</u>	<u>Deduct</u>	<u>Net UM</u>	<u>Price</u>	<u>Total</u>
Iron #2 HMS Unprepared	40,760	35,860			4,900 N	0.0000	.00
	40,760	35,860			4,900		.00
						ATM Fee	.00
						Ticket Total	.00

ACCEPTED BY _____

I DECLARE THAT I AM THE SOLE AND RIGHTFUL OWNER OF THIS MATERIAL, AND/OR HAVE THE AUTHORITY TO SELL IT.

6c. Waste Weight Tickets



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

Original
Ticket# 3268287

Customer Name	JKSINDUSTRIESLLC	JKS Industri	Carrier	JKS INDUSTRIES	JKS INDUSTRIES
Ticket Date	11/08/2018		Vehicle#	1	Volume
Payment Type	Credit Account		Container		
Manual Ticket#			Driver		
Hauling Ticket#			Check#		
Route			Billing #	0014925	
State Waste Code			Gen EPA ID		
Manifest			Grid		
Destination					
PO					
Profile	()				
Generator					

	Time	Scale	Operator	Inbound	Gross	
In	11/08/2018 07:51:06	MANUAL WT	SLA		Tare	2 lb*
Out	11/08/2018 07:51:06		SLA		Net	1 lb*
			* Manual Weight		Tons	

Comments 3 loads central -70 = 54cyds total from 11/8/18 REPLACEMENT TICKET FOR TICKET

PLEASE MAKE SURE YOUR TICKET IS CORRECT BEFORE SIGNING.

Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1 CDY-CONST DEBRIS - 100		54.00	Yards				

Total Fees
Total Ticket



Date: 11-8-18

Ticket#: AP-28

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: _____

3 loads x 180cyds =
540cyds
total

Date: 11-8-18

Ticket#: AP28

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: _____

Date: 11-8-18

Ticket#: Ap28

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: Justin Castillo

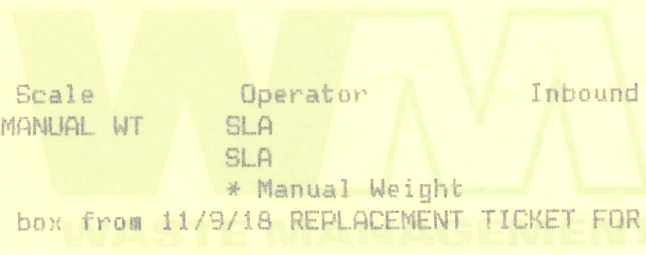


2476930

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

Original
Ticket# 3260288

Customer Name	JKSINDUSTRIESLLC	JKS Industri	Carrier	JKS INDUSTRIES	JKS INDUSTRIES
Ticket Date	11/09/2018		Vehicle#	1	Volume
Payment Type	Credit Account		Container		
Manual Ticket#			Driver		
Hauling Ticket#			Check#		
Route			Billing #	0014925	
State Waste Code			Gen EPA ID		
Manifest			Grid		
Destination					
PO					
Profile	()				
Generator					



	Time	Scale	Operator	Inbound	Gross	2 lb*
In	11/09/2018 07:38:23	MANUAL WT	SLA		Tare	1 lb*
Out	11/09/2018 07:38:23		SLA		Net	1 lb
			* Manual Weight		Tons	

Comments 8 loads in drop box from 11/9/18 REPLACEMENT TICKET FOR TICKET # 3258163

PLEASE MAKE SURE YOUR TICKET IS CORRECT BEFORE SIGNING.

Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	CDY-CONST DEBRIS - 100	144.00	Yards				

Total Fees
Total Ticket



Date: 11-9-18

Ticket#: Ap 28

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: Justin Costello DRIVER:

18x8 = 144 cys TOTAL
LOADS

Date: 11-9-18

Ticket#: Ap-28

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: 11-9-18

Ticket#: AP28

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: _____ 

Date: 11-9-18

Ticket#: Ap-28

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: _____ 

Date: 11-9-18

Ticket#: AP 28

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: Justin Castello

Date: 11-9-18

Ticket#: AP 28

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: [Signature]

Date: 11-9-18

Ticket#: AP28

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
Justin Castillo

Date: 11-9-18

Ticket#: AP28

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
Jose

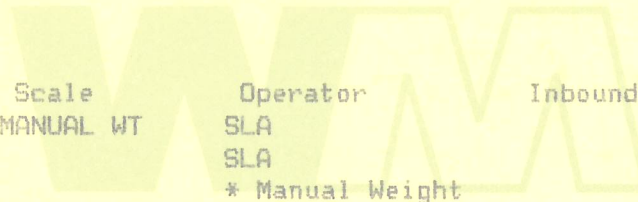


2476932

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

Original
Ticket# 3268290

Customer Name	JKSINDUSTRIESLLC	JKS Industri	Carrier	JKS INDUSTRIES	JKS INDUSTRIES
Ticket Date	11/14/2018		Vehicle#	1	Volume
Payment Type	Credit Account		Container		
Manual Ticket#			Driver		
Hauling Ticket#			Check#		
Route			Billing #	0014925	
State Waste Code			Gen EPA ID		
Manifest			Grid		
Destination					
PO					
Profile	()				
Generator					



	Time	Scale	Operator	Inbound	Gross	2 lb*
In	11/14/2018 09:07:46	MANUAL WT	SLA		Tare	1 lb*
Out	11/14/2018 09:07:46		SLA		Net	1 lb
			* Manual Weight		Tons	

Comments 18 loads on drop box tickets 11/14/18 REPLACEMENT TICKET FOR TICKET # 3260190

PLEASE MAKE SURE YOUR TICKET IS CORRECT BEFORE SIGNING.

Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	CDY-CONST DEBRIS - 100	198.00	Yards				

Total Fees
Total Ticket



Date: 11-14-8

Ticket#: AP-28

ACCT#:306-14925

JKS INDUSTRIES
CENTRAL 70 PROJECT

CDY 18 YDS 25 YDS HIGH SIDES

DISPOSAL SITE: DADS
3500 S GUN CLUB RD
AURORA CO 80018

DRIVER

Signature: 

7. Dump Diversion Summary

JKS Industries
AP-28 4646 Vine St.

Descriptions		Dump Diversion / Recycle %								
Phase	Activity	Unit of Measure	# of Yards per Container	# of Containers	Total Number of Yards	Pounds Per Yard **	Total Lbs	Recycled Yes/No	Pounds of Recycle or Dump Diversion	% of Recycle or Dump Diversion
Abatement	Trash Rolloff	Cubic Yard	-	-	-	450.00	-			
Abatement	Asbestos Containers	Cubic Yard	-	-	-	500.00	-			
Demolition	Demolition Construction Debris	Cubic Yard	18	12	216.00	1,400.00	302,400			
Demolition	Concrete Debris	Cubic Yard	12	-	-	4,050.00	-	x	-	0.00%
Demolition	Trees	Cubic Yard	-	-	-	500.00	-	x	-	0.00%
Demolition	Steel	Lbs	-	-	-	-	4,900	x	4,900	1.59%
Demolition	Copper	Lbs	-	-	-	-	-	x	-	0.00%
				12	216.00		307,300		4,900	1.59%

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.

8. Daily Logs

JKS Industries

ON-SITE DAILY SIGN-IN SHEET

Date : 11-7-18
 Project Name: 18-309
 Project NO: AP-28
 Supervisor: Jesus Casado

	NAME	Initial	EMPLOYER	TIME IN	TIME OUT	TIME IN	TIME OUT	TOTAL
11-7	Jesus Casado	JC	JKS	7:00 AM	3:30 PM			
	Jamrob Ramirez	JR	JKS	7:00 AM	3:80 PM			
11-8	Jesus Casado	JC	JKS	7:00 AM	5:00 PM			
	Jamrob Ramirez	JR	JKS	7:00 AM	5:00 PM			
	Justin Castillo	JC	Chacon	8:00 AM				
11-9	Jesus Casado	JC	JKS	7:00 AM	4:00 PM			
	Jamrob Ramirez	JR	JKS	7:00 AM	4:00 PM			
	Jose Sanchez	chacon	Chacon	8:00 AM				
	Justin Castillo	JC	Chacon	8:00 AM				
TOTAL								

JKS INDUSTRIES LLC DAILY PROJECT LOG

Job # AP18
Date 11-8-18

Job Name: 18-21

Day Thursday

Month NOV

Report #

Year 2018

Project Manager Steve

Superintendent _____

Work Performed Today <u>loading trucks with trash</u> 	Weather: _____	
	Temp. Hi _____ Low _____	
	Safety Meeting	
	Topic: _____	
	Work Force	Number
	Project Manager	
	Project Supervisor	1
	Operators	1
	Laborers	1
	Tradesmen	
	Other:	
	Other:	
	Other:	
	Materials Used	Quantity

Problems - Delays, Safety Issues
Down time because machine doesnt have any fuel and were waiting for fuel from 7am-11am

Subcontractor Progress

Inspections

Equipment Rented Today	Rented From	Insp Chklist Complete?	Equipment	Hours
<u>EX-230</u>	<u>united</u>			

Visitors (Incl. Subs, Clients, etc)	Time In/Time Out	Activity Onsite

JKS INDUSTRIES LLC DAILY PROJECT LOG

Job # AP-28
Date 11-9-18

Job Name: 18-321
Day Friday

Month Nov

Report # _____
Year 2018

Project Manager _____

Superintendent _____

Work Performed Today		Weather: _____		
<u>loading trucks</u>		Temp. Hi _____ Low _____		
		Safety Meeting		
		Topic:		
		Work Force	Number	
		Project Manager		
		Project Supervisor		
		Operators		
		Laborers		
		Tradesmen		
		Other:		
		Other:		
Other:				
		Materials Used	Quantity	
Material Purchased/Delivered				
Problems - Delays, Safety Issues				
<u>Machine needs welding down time from 3pm-4pm.</u>				
Subcontractor Progress				
Inspections				
Equipment Rented Today	Rented From	Insp Chklist Complete?	Equipment	Hours
<u>320 EX</u>	<u>United</u>			
Visitors (Incl. Subs, Clients, etc)	Time In/Time Out	Activity Onsite		