

Close Out Documents

AP-75: 4620 Clayton 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-75 4620 Clayton St.

Dear Kiewit Infrastructure Co.

This letter is confirm that all the work associated with the demolition of the structure located at 4620 Clayton St. Denver, CO 80216, also referred as parcel AP-75, is complete.

The scope of work included the removal of regulated building materials (RBMs), demolition of a 957 square foot structure, demolition of a 211 square foot shed, 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 postdemolition 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 8/1/2018. The actual scheduled work dates are from 8/1/2018 through 8/3/2018.

Approval issued on: 7/23/2018 Record number: 139966

Notice Number: 18DE4828D

For the location specified below:

Residential House

4620 Clayton St. Denver **Denver Countv**

This notice has been issued to:

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

Fee Paid: \$55.00 Check number: 1544

Asbestos Building Inspector: Logan Greenfield Cerification No.: 20715

Inspection Date:

04/27/2018

Issued by: TS

Trevo Strosside



Colorado Department of Public Health and Environment

DEMOLITION NOTIFICATION APPLICATION FORM APPLICATION FEE MUST ACCOMPANY THIS FORM INCOMPLETE APPLICATIONS WILL BE RETURNED

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

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

	Company Name: IKS Industries I.I.C				Building Name: Residentia				
	Street:				Square footage of footprint of facility or portion of facility to be demolished				
or	747 Sheridan Blvd. #9A				957 <u>6</u>				
act	Lakewood	CO	80214	te	4620 Clayton St				
ontr	Telephone # (303) 238-0207	Fax # (303) 238-04	452	on Si	City: C Denver	ounty: Denver	Zip Code: 80216		
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ă	Signature: HANT Name: JEFFNEY WNISHT								
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	General Abatement Contractor (GAC)			ler	Owner's Name: Colorado Department of Transporation				
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~ - 0	Type(s) of Asbestos-Containing Material Removed:			Bui	Contact's Name:	Telephone #	#		
					Anthony Davito	(303) 512	2-5900		
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abated/removed prior to demolition.

Rev. 01/30/08

DATE 7/18/18 ODPHE OWS

Submit form to: Permit Coordinator

APCD-IE-B1 4300 Cherry Creek Drive

South

Colorado Dept. of Public Health and Environment

Denver, CO 80246-1530

Phone: 303-692-3100 Fax: 303-782-0278

Asbestos@state.co.us

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

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> This demolition approval notice is valid beginning 8/1/2018. The actual scheduled work dates are from 8/1/2018 through 8/3/2018.

Approval issued on: 7/23/2018 Record number: 139968 Notice Number: 18DE4829D

For the location specified below:

Residential House-Shed

4620 Clayton St. Denver **Denver County**

This notice has been issued to:

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

Fee Paid: \$55.00 Check number: 5144

Asbestos Building Inspector: Logan Greenfield Cerification No.: 20715

Inspection Date: 04/27/2018

Issued by: TS Travor Strosvile



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)

ee: \$50 + \$5 per 1000 ft² of area to be demolished = \$

Fee: \$50 + \$5 per 1000 ft² of area to be demolished = \$_ (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

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DATE

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ODEL OWS



3. Project Design

Asbestos Abatement • Lead Abatement • Mold Remediation • Soil Remediation • Select Interior/Structural Demolition jksindustries.net • 0:303.238.0207 • F: 303.238.0452 • 747 Sheridan Blvd. #9A, Lakewood, CO 80214 Veteran Owned • Certified: MBE, DBE, SBE



3a. SSAR





Structure Survey Assessment Report AP-75

4620 Clayton Street

Denver, CO 80216

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APEC Project # 18-3066 - 010

Prepared for

Kiewit Meridiam Partners

Prepared by

Logan Greenfield Logan Greenfield, CABI & AMS #20715 VP of Field Services

Reviewed by

Brandice Calinger Brandice Eslinger, EP, CABI & PD # 5494 President

1 Introduction

All-Phase Environmental Consultants, Inc. (APEC) was contracted to complete an environmental building survey for suspect asbestos-containing materials (ACMs), lead-based paint (LBP), and regulated building materials (RBM) at 4620 Clayton Street, Denver, CO. This survey will identify what materials will need to be abated or removed prior to the future demolition activities.

Client Name:	Kiewit Meridiam Partners
Site Location:	4620 Clayton Street, Denver, CO 80216
Building Type	One Building – Single Family Residence
Building Size	Building is approximately 1,466 square feet + Garage
Construction Date:	1942 – 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.

Table 1-1Project Details

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 23132 of Schedule 17 (Environmental Requirements) of the final Central 70 Project Agreement between Colorado Department of Transprotation (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 CCR Part 273 of the Colorado Hazardous Waste Regulations; chlorofluorocarbons (CFCs), as defined by the Clean Air Act; and polychlorinated biphenyls (PCBs), as defined by the Toxic Substances Control Act.

2 Site Survey Methodology

2.1 ASBESTOS SURVEY

On April 27, 2018, APEC certified personnel Logan Greenfield conducted an asbestos survey for demolition at the aforementioned address. The asbestos survey (inspection/sampling) was completed in accordance with the SSAP and follows guidelines established under the EPA Asbestos Hazard Emergency Response Act (AHERA) program and as required by USEPA regulation 40 Code of Federal Regula-tions (CFR) Part 61, National Emissions Standards for Hazardous Air Pollutants (NESHAP). Bulk sampling of suspected ACMs were conducted in strict accordance with AHERA sampling proce-dures detailed in 40 CFR 763.86. These include but aren't limited to labeling each sample, recording on a chain-of-custody, taking a photo of the sample and recording the location on a site diagram. Demoli-tion 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 Administra-tion (OSHA), the Environmental Protection Agency (EPA), the Colorado Department of Public Health and Environment (CDPHE), and the Health Department. All samples were collected and submitted to EMSL County Denver Analytical, Inc. in Denver, CO per APEC chain-of-custody pro-tocol. 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 con-ducted was the EPA Interim Method for the Determination of Asbestos in Bulk Samples, using standard Polarized Light Microscopy (PLM) and dispersion staining as established in 40 CFR Part 763.

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

2.2 LEAD-BASED PAINT SURVEY

On April 27, 2018, APEC certified personnel Rick Ralston conducted the lead based paint (LBP) survey. The LBP survey was conducted to evaluate the absence and/or presence of LBP or lead-containing paint (LCP) that will be impacted during future demolition activities. The survey consisted of reviewing and inspecting the interior, exterior and roof system of the structure for suspect LBP or LCP. The testing method was the use of a heat gun and/or scraping a portion of the paint to the substrate (material under the paint). Proper Chain-of-Custody procedures were followed and samples were sent to EMSL Analytical, Inc. in Indianapolis, IN, 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 XRF or 5000 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 each known LBP were taken and are included in a photographic log (Appendix B), and the paint chip sample locations were recorded and are included in sample location drawing (Figures 3). Descriptions of the suspect homogeneous materials and a list of the collected samples can be viewed in the 'Findings' section.

Based on the analytical results for the 9 samples taken, 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 REGULATED BUILDING MATERIALS INVENTORY SURVEY

On April 27, 2018, APEC personnel conducted the RBM inventory consisting of inspecting the interior, exterior and roof system. The inspection was conducted to visually identify and quantify any building materials, devices and equipment suspected of containing potentially regulated materials as they pertain to the EPA Universal Waste Rule (UWR) requirements (40 CFR, Part 273). APECs inventory review consisted of the following : potential mercury-containing thermostats/switches; fluorescent light tubes and compact fluorescent bulbs; items potentially containing polychlorinated biphenyls (PCBs) (generally ballasts found within the fluorescent light fixtures); tritium powered exit signs; smoke detectors potentially containing Americium-241; and Freon-containing refrigeration systems. The Survey of Suspected RBMs are for use by contractors conducting the removal of items from the property. Samples of suspect RBMs are not required for this type of survey, as all determinations are made by visual means.

3 Findings

3.1 ASBESTOS SURVEY

A total of 25 bulk samples, including 1 duplicate, were collected from 7 suspect homogenous materials throughout the structure, and the results of the PLM analysis are presented in Table 3-1. No samples were positive for ACMs (i.e. present greater than 1%), however, 14 samples with point count results below 1% are confirmed to be OSHA regulated.

Point Counts

Point count analysis occurs for samples with <1% of asbestos. The point count results are also presented in Table 3-1. The laboratory analytical report is included as Appendix C. The following samples were confirmed to be OSHA regulated, due to analyzing at or below 1% of asbestos due to point count analysis:

- 4620CL-R1-1A, 4620CL-R1-1B & 4620CL-R4-1C Rough Textured Plaster Not regulated (all below 1%)
- 4620CL-R1-2A, 4620CL-R2-2B, 4620CL-R8-2C, 4620CL-R4-2D & 4620CL-R3-2E Smooth Textured Plaster – Not regulated (all below 1%)
- 4620CL-R5-3A, 4620CL-R5-3B & 4620CL-R5-3C Knockdown Textured Plaster Not regulated (all below 1%)
- 4620CL-R3-4A, 4620CL-R3-4B & 4620CL-R3-4C Medium Textured Plaster Not regulated (all below 1%)

Duplicate Samples

For quality assurance purposes, a duplicate sample was taken appropriately every 20th sample. There were 25 samples obtained, thus 1 duplicate sample (4620CL-R9-5Q) was collected.

3.2 LEAD-BASED PAINT SURVEY

A total of 9 homogeneous paint color variations were analyzed for the presence of LBPs and LCPs (Table 3-2; 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). Please note that the regulatory definition of LBP only applies to child-occupied facilities or targeted housing (pre-1978). For all other facilities. 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).

Two lead samples (4620CL-1L & 4620CL-4L) are found to be greater than 0.06% by weight and less than 0.5% by weight and is considered LCP (Table 3-2). Two samples (4620CL-8L & 4620CL-9L) had lead concentrations greater than 0.5% by weight and is considered LBP. The remaining 5 sample results were less than the LCP and LBP thresholds, and are considered non-lead containing paint (NLC). The laboratory analytical report is included in Appendix D.

3.2.1 TCLP LEAD ANALYTICAL RESULTS

Since two samples were analyzed to be LBP and two samples analyzed as LCP, TCLP analysis of lead was performed. TCLP analysis simulates the potential for the demolished building materials to leach lead if placed in the landfill and results of the analysis determine if the materials will be considered hazardous waste. TCLP analysis was performed for landfill compliance. The Toxicity Characteristic (TC) maximum concentration is 5 milligrams per liter (mg/L). The results of the TCLP analysis is 0.44 mg/L, which is below the regulated limit and therefore not considered hazardous. The analytical report is included in Appendix D.

3.3 REGULATED BUILDING MATERIALS INVENTORY SURVEY

Several suspect RBMs were visually identified throughout the structure. RBMs that are a cause of concern, when discovered, are discussed below. A complete list of the RBMs is presented in Table 3-3, and selected locations of the RBMs are depicted in Figure 4.

4 Conclusions and Recommendations

4.1 ASBESTOS

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

Prior to demolition activities, all friable and non-friable (that can or will be rendered friable) ACM that may be impacted during the demolition must be abated by a Colorado Certified Asbestos Abatement Contractor as required by NESHAP and the CDPHE – Air Pollution Control Division: Asbestos. The exception are Category I & II Non-Friable ACMs that can, with best management practices, remain during the activities and remain non-friable, i.e. not able to be reduced to a dust. Activities such as grinding, excessive munching of materials, sawing, jack-hammering, etc. are strictly prohibited.

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 detected at concentrations above the LCP threshold in 2 of the 9 samples, and above the LBP threshold in 2 of the 9 samples. The remaining 5 samples are considered NLC. Although LCP/LBP was identified in the samples analyzed, the TC limit of 5 mg/L was not exceeded in the TCLP lead analysis.

TCLP results confirmed that the waste stream is not hazardous with respect to lead content.

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

4.3 REGULATED BUILDING MATERIALS

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

With regards to RBMs, if listed, it is likely that the ballasts in the fluorescent light fixtures do contain PCBs. Where a manufactures' label is present indicating "no PCBs", the ballast can be disposed of with recyclable metal or with other municipal waste. During removal for disposal as part of the demolition activities, each ballast should be visually inspected for the manufacture's label indicating "no PCBs". If the label does not have this notation, the ballast should be considered PCB-containing and should be disposed of as a hazardous waste in accordance with local, state, and federal regulatory guidelines. Refrigerators and air conditioning units contain freon 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 3-1B
 Non-Asbestos Containing Samples
- Table 3-2
 Summary of Paint Chip Laboratory Analysis for Lead
- Table 3-3
 Summary of Regulated Building Materials

Table 3-1A Asbestos Containing OSHA Regulated Samples

Sample Name	Sample Location	Lab Results/ Asbestos Type	Detection Method(s)	Condition	Material Description	Material Location	NESHAP Classification	Estimated Quantity (Sq. ft.)
4620CL-R1-1A	DOOM 4	0.25% CHRYSOTILE	Point Count	Good				
4620CL-R1-1B	KOOM I	<0.25% CHRYSOTILE	Point Count	Good	ROUGH TEXTURED PLASTER	WALLS OF ROOMS 1 ,4 AND STAIRWELL	OF 3 1 ,4 /ELL OF 3 2, 6,7 & 8 SS OR 3 1, 2, 3, 4, OSHA REGULATED AND 5 OF 5 OF ROOM	592
4620CL-R4-1C	ROOM 4	<0.25% CHRYSOTILE	Point Count	Good				
4620CL-R1-2A	ROOM 1	<0.25% CHRYSOTILE	Point Count	Good				
4620CL-R2-2B	ROOM 2	0.25% CHRYSOTILE	Point Count	Good		WALLS OF		1,323
4620CL-R8-2C	ROOM 8	0.25% CHRYSOTILE	Point Count	Good	SMOOTH TEXTURED PLASTER	CEILINGS OR		
4620CL-R4-2D	ROOM 4	<0.25% CHRYSOTILE	Point Count	Good		6,7 & 8		
4620CL-R3-2E	ROOM 3	<0.25% CHRYSOTILE	Point Count	Good				
4620CL-R5-3A		0.50% CHRYSOTILE	Point Count	Good				
4620CL-R5-3B	ROOM 5	<0.25% CHRYSOTILE	Point Count	Good	KNOCKDOWN TEXTURED	WALLS AND CEILING OF ROOM 5		196
4620CL-R5-3C		<0.25% CHRYSOTILE	Point Count	Good				
4620CL-R3-4A		<0.25% CHRYSOTILE	Point Count	Good				
4620CL-R3-4B	ROOM 3	<0.25% CHRYSOTILE	Point Count	Good	MEDIUM TEXTURED PLASTER	WALLS OF ROOM 3		312
4620CL-R3-4C		<0.25% CHRYSOTILE	Point Count	Good				
ND=Non-Detect PLM=Polarized Ligh	t Microscopy							

NA=Not Applicable RACM=Regulated Asbestos Containing Materials

Sample Name	Sample Location	Lab Results/ Asbestos Type	Detection Method(s)	Condition	Material Description	Material Location	NESHAP Classification
4620CL-R10-5A	ROOM 10	ND	PLM	Good			NA
4620CL-R9-5B	ROOM 9	ND	PLM	Good			NA
4620CL-R11-5C	ROOM11	ND	PLM	Good	KNOCKDOWN TEXTURED	WALLS AND CEILINGS OF ROOMS 9,10,11,12,13 & 14	NA
4620CL-R14-5D	ROOM 14	ND	PLM	Good	DRYWALL	ROOMS 9,10,11,12,13 & 14	NA
4620CL-R13-5E	ROOM 13	ND	PLM	Good			NA
4620CL-R9-5Q	ROOM 9	ND	PLM	Good			NA
4620CL-G-6A		ND	PLM	Good			NA
4620CL-G-6B	GARAGE	ND	PLM	Good	DRYWALL/JOINT COMPOUND	GARAGE	NA
4620CL-G-6C		ND	PLM	Good			NA
4620CL-EX-7A	EXTEDIOD	ND	PLM	Good		DOOF	NA
4620CL-EX-7B		ND	PLM	Good	ROOFING	NUUF	NA

Table 3-1B Non-Asbestos Containing Samples

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

Table 3-2 Summary of Paint Chip Analysis for I	∟ead
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Sample Number	Sample Location	Lead Concentration (% wt.)	Component	Paint Description	Classification
4620CL-1L	Room I	0.081	Plaster	White	LCP
4620CL-2L	Room 2	0.045	Plaster	White	NLC
4620CL-3L	Room 7	<0.010	Plaster	White	NLC
4620CL-4L	Room 9	0.11	Wood	White	LCP
4620CL-5LQ	Room 9	0.037	Wood	White	NLC
4620CL-6L	Room I	<0.010	Metal	Green	NLC
4620CL-7L	Room 13	<0.010	Drywall	Red	NLC
4620CL-8L	External Siding	3.8	Stucco	Brown	LBP
4620CL-9L	Garage Siding	4.0	Metal	Gray	LBP

Table 3-3 Summary of Regulated Building Materials

Room	Material	Location	Quantity
			Fixture/Bulbs each
Room 3	Fluorescent	Ceiling	l fixtrue 4 bulbs
Room I	Themostat-Digital	South Wall	Ι
Exterior	Gas Main	North West Corner	I
Room 9	Electrial Breaker Box	North of Stairs	Ι
Exterior	Halogen Security Light	South End of Garage	Ι
Exterior	Electrial Meter	North West Corner	Ι

Figures

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















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

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, 2017Certificate No.:R17-1661-AI-CONo. of Hours:4Expiration Date:September 20, 2018Certification not valid without watermark

Frenk Hulce

Frank Hulce - Instructor

- Janaya Boneditts

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

Contraction of the second seco

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, 2016Certificate No.:R16-031-LRA-CONo. of Hours:8Expiration Date:April 6, 2019Certification not valid without watermark

uis E. Leon

Luis Peon - Instructor

Aanaya Boneditts

Danaya Benedetto - Training Program Manager





Certificate of Accreditation to ISO/IEC 17025:2005

NVLAP LAB CODE: 200828-0

EMSL Analytical, Inc. Denver, CO

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

Asbestos Fiber Analysis

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).

2018-04-01 through 2019-03-31

Effective Dates



For the National Voluntary Laboratory Accreditation Program

National Voluntary Laboratory Accreditation Program



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

EMSL Analytical, Inc.

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

ASBESTOS FIBER ANALYSIS

NVLAP LAB CODE 200828-0

Bulk Asbestos Analysis

Code	Description
18/A01	EPA 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples
18/A03	EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials

Airborne Asbestos Analysis

Code **Description**

18/A02

U.S. EPA's "Interim Transmission Electron Microscopy Analytical Methods-Mandatory and Nonmandatory-and Mandatory Section to Determine Completion of Response Actions" as found in 40 CFR, Part 763, Subpart E, Appendix A.

For the National Voluntary Laboratory Accreditation Program



AIHA Laboratory Accreditation Programs, LLC

acknowledges that

EMSL Analytical, Inc.

6340 Castleplace Drive, Indianapolis, IN 46250

Laboratory ID: 157245

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

LABORATORY ACCREDITATION PROGRAMS

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

Accreditation Expires: June 01, 2019 Accreditation Expires: June 01, 2019 Accreditation Expires: June 01, 2019 Accreditation Expires: Accreditation Expires:

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

Um male

William Walsh, CIH Chairperson, Analytical Accreditation Board

Revision 15: 03/30/2016

Cheryl J, Martan Cheryl O. Morton

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

Date Issued: 05/31/2017



AIHA Laboratory Accreditation Programs, LLC SCOPE OF ACCREDITATION

EMSL Analytical, Inc.

Laboratory ID: **157245** Issue Date: 05/31/2017

6340 Castleplace Drive, Indianapolis, IN 46250

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 and composited wipes analyses are not included as part of the NLLAP.

Environmental Lead Laboratory Accreditation Program (ELLAP)

Initial Accreditation Date: 09/01/2002

Field of Testing (FoT)	Technology sub-type/ Detector	Method	Method Description (for internal methods only)
		EPA SW-846 3050B	
Paint		EPA SW-846 3051A	
		EPA SW-846 7000B	
		EPA SW-846 3050B	
Soil		EPA SW-846 3051A	
		EPA SW-846 7000B	
		EPA SW-846 3050B	
Settled Dust by Wipe		EPA SW-846 3051A	
		EPA SW-846 7000B	
Airborne Dust		NIOSH 7082	

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

B POSITIVE LEAD SAMPLE MATERIAL PHOTOGRAPHS







LABORATORY RESULTS & CHAIN OF CUSTODY -ASBESTOS



1010 Yuma Street Denver, CO 80204 Tel/Fax: (303) 740-5700 / (303) 741-1400 http://www.EMSL.com / denverlab@emsl.com EMSL Order: 221802874 Customer ID: ALLP62 Customer PO: Project ID: CDOT

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:
 04/27/2018 10:00 AM

 Analysis Date:
 05/01/2018

 Collected Date:
 04/27/2018

Project: 18-3066 - D70 - 4620 Clay (CDOT)

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

			Non-Asbe	estos	<u>Asbestos</u>
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре
4620CL-R1-1A-Skim	Rough Textured Plaster	White		5% Ca Carbonate	None Detected
Coat		Non-Fibrous		95% Non-fibrous (Other)	
221802874-0001		Homogeneous			
			Inseparable paint / coating layer included i	n analysis	
4620CL-R1-1A-Plas	Rough Textured Plaster	Gray		100% Non-fibrous (Other)	<1% Chrysotile
ter		Non-Fibrous			
221802874-0001A		Homogeneous			
4620CL-R1-1B-Skim	Rough Textured Plaster	White		5% Ca Carbonate	None Detected
Coat		Non-Fibrous		95% Non-fibrous (Other)	
221802874-0002		Homogeneous			
			Inseparable paint / coating layer included i	n analysis	
4620CL-R1-1B-Plast	Rough Textured Plaster	Gray		100% Non-fibrous (Other)	<1% Chrysotile
er		Non-Fibrous			
221802874-0002A		Homogeneous			
4620CL-R4-1C-Skim	Rough Textured Plaster	White		100% Non-fibrous (Other)	None Detected
Coat		Non-Fibrous			
221802874-0003		Heterogeneous			
			Inseparable paint / coating layer included i	n analysis	
4620CL-R4-1C-Plast	Rough Textured Plaster	Gray		100% Non-fibrous (Other)	<1% Chrysotile
er		Non-Fibrous			
221802874-0003A		Homogeneous			
4620CL-R1-2A-Skim	Smooth Textured	White		5% Ca Carbonate	None Detected
Coat	Plaster	Non-Fibrous		95% Non-fibrous (Other)	
221802874-0004		Homogeneous			
			Inseparable paint / coating layer included i	n analysis	
4620CL-R1-2A-Plas	Smooth Textured	Gray		100% Non-fibrous (Other)	<1% Chrysotile
ter	Plaster	Non-Fibrous			
221802874-0004A		Homogeneous			

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



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 04/27/2018

Project: 18-3066 - D70 - 4620 Clay (CDOT)

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

			Non-A	sbestos	Asbestos
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре
4620CL-R2-2B-Skim	Smooth Textured	White		5% Ca Carbonate	None Detected
Coat	Plaster	Non-Fibrous		95% Non-fibrous (Other)	
221802874-0005		Homogeneous			
			Inseparable paint / coating layer inclue	ded in analysis	
4620CL-R2-2B-Plast	Smooth Textured	Gray		100% Non-fibrous (Other)	<1% Chrysotile
er	Plaster	Non-Fibrous			
221802874-0005A		Homogeneous			
4620CL-R8-2C-Skim	Smooth Textured	White		5% Ca Carbonate	None Detected
Coat	Plaster	Non-Fibrous		95% Non-fibrous (Other)	
221802874-0006		Homogeneous			
			Inseparable paint / coating layer inclue	ded in analysis	
4620CL-R8-2C-Plast	Smooth Textured	Gray		100% Non-fibrous (Other)	<1% Chrysotile
er	Plaster	Non-Fibrous			
221802874-0006A		Homogeneous			
4620CL-R4-2D-Skim	Smooth Textured	White		5% Ca Carbonate	None Detected
Coat	Plaster	Non-Fibrous		95% Non-fibrous (Other)	
221802874-0007		Homogeneous			
			Inseparable paint / coating layer inclue	ded in analysis	
4620CL-R4-2D-Plast	Smooth Textured	Gray		100% Non-fibrous (Other)	<1% Chrysotile
er	Plaster	Non-Fibrous			
221802874-0007A		Homogeneous			
4620CL-R3-2E-Text	Smooth Textured	White		20% Ca Carbonate	None Detected
ure	Plaster	Non-Fibrous		80% Non-fibrous (Other)	
221802874-0008		Heterogeneous			
			Inseparable paint / coating layer inclue	ded in analysis	
4620CL-R3-2E-Skim	Smooth Textured	White		100% Non-fibrous (Other)	None Detected
Coat	Plaster	Non-Fibrous			
221802874-0008A		Heterogeneous			
			Inseparable paint / coating layer inclue	ded in analysis	

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



1010 Yuma Street Denver, CO 80204 Tel/Fax: (303) 740-5700 / (303) 741-1400 http://www.EMSL.com / denverlab@emsl.com EMSL Order: 221802874 Customer ID: ALLP62 Customer PO: Project ID: CDOT

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 Collected Date:
 04/27/2018

Project: 18-3066 - D70 - 4620 Clay (CDOT)

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

			Non-Asbestos		<u>Asbestos</u>
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре
4620CL-R3-2E-Plast	Smooth Textured	Gray Non Eibrous		5% Ca Carbonate 95% Non-fibrous (Other)	<1% Chrysotile
er 221802874-0008B		Homogeneous			
4620CL-R5-3A-Text	Knockdown Textured	White		15% Ca Carbonate	None Detected
ure	Plaster	Non-Fibrous		85% Non-fibrous (Other)	
221802874-0009		Helelogeneous			
			inseparable paint / coating layer included in	anaiysis	
4620CL-R5-3A-Skim	Knockdown Textured	White		5% Ca Carbonate	None Detected
Coat	Plaster	Non-Fibrous		95% Non-fibrous (Other)	
221802874-0009A		Homogeneous			
4620CL-R5-3A-Plas	Knockdown Textured	Gray		100% Non-fibrous (Other)	<1% Chrysotile
ter	Plaster	Non-Fibrous			
221802874-0009B		Homogeneous			
			Inseparable paint / coating layer included in	analysis	
4620CL-R5-3B-Text	Knockdown Textured	White		15% Ca Carbonate	None Detected
ure	Plaster	Non-Fibrous		85% Non-fibrous (Other)	
221802874-0010		Homogeneous			
			Inseparable paint / coating layer included in	analysis	
4620CL-R5-3B-Skim	Knockdown Textured	White		5% Ca Carbonate	None Detected
Coat	Plaster	Non-Fibrous		95% Non-fibrous (Other)	
221802874-0010A		Homogeneous			
4620CL-R5-3B-Plast	Knockdown Textured	Gray		100% Non-fibrous (Other)	<1% Chrysotile
er	Plaster	Non-Fibrous			
221802874-0010B		Homogeneous			
4620CL-R5-3C-Text	Knockdown Textured	White		10% Ca Carbonate	None Detected
ure	Plaster	Non-Fibrous		90% Non-fibrous (Other)	
221802874-0011		Heterogeneous			
			Inseparable paint / coating layer included in	analysis	
4620CL-R5-3C-Skim	Knockdown Textured	White		100% Non-fibrous (Other)	None Detected
Coat	Plaster	Non-Fibrous			
221802874-0011A		Heterogeneous			

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



1010 Yuma Street Denver, CO 80204 Tel/Fax: (303) 740-5700 / (303) 741-1400 http://www.EMSL.com / denverlab@emsl.com EMSL Order: 221802874 Customer ID: ALLP62 Customer PO: Project ID: CDOT

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:
 04/27/2018 10:00 AM

 Analysis Date:
 05/01/2018

 Collected Date:
 04/27/2018

Project: 18-3066 - D70 - 4620 Clay (CDOT)

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

			<u>Non-As</u>	sbestos	<u>Asbestos</u>
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре
4620CL-R5-3C-Plast	Knockdown Textured	Gray		5% Ca Carbonate	<1% Chrysotile
er	Plaster	Non-Fibrous		95% Non-fibrous (Other)	
221802874-0011B		Homogeneous			
4620CL-R3-4A-Text	Medium Textured	White		15% Ca Carbonate	None Detected
ure	Plaster	Non-Fibrous		85% Non-fibrous (Other)	
221802874-0012		Heterogeneous			
			Inseparable paint / coating layer includ	ed in analysis	
4620CL-R3-4A-Skim	Medium Textured	White		10% Ca Carbonate	None Detected
Coat	Plaster	Non-Fibrous		90% Non-fibrous (Other)	
221802874-0012A		Homogeneous			
4620CL-R3-4A-Plas	Medium Textured	Gray		100% Non-fibrous (Other)	<1% Chrysotile
ter	Plaster	Non-Fibrous			
221802874-0012B		Homogeneous			
4620CL-R3-4B-Text	Medium Textured	White		15% Ca Carbonate	None Detected
ure	Plaster	Non-Fibrous		85% Non-fibrous (Other)	
221802874-0013		Homogeneous			
			Inseparable paint / coating layer includ	ed in analysis	
4620CL-R3-4B-Skim	Medium Textured	White		5% Ca Carbonate	None Detected
Coat	Plaster	Non-Fibrous		95% Non-fibrous (Other)	
221802874-0013A		Homogeneous			
4620CL-R3-4B-Plast	Medium Textured	Gray		100% Non-fibrous (Other)	<1% Chrysotile
er	Plaster	Non-Fibrous			
221802874-0013B		Homogeneous			
4620CL-R3-4C-Text	Medium Textured	White		10% Ca Carbonate	None Detected
ure	Plaster	Non-Fibrous		90% Non-fibrous (Other)	
221802874-0014		Heterogeneous			
			Inseparable paint / coating layer includ	ed in analysis	
4620CL-R3-4C-Skim	Medium Textured	White		100% Non-fibrous (Other)	None Detected
Coat	Plaster	Non-Fibrous			
221802874-0014A		Heterogeneous			
			Inseparable paint / coating layer includ	ed in analysis	

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



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

 Phone:
 (719) 250-0036

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 04/27/2018 10:00 AM

 Analysis Date:
 05/01/2018

 Collected Date:
 04/27/2018

Project: 18-3066 - D70 - 4620 Clay (CDOT)

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

			Non-Asbestos		<u>Asbestos</u>	
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре	
4620CL-R3-4C-Plast	Medium Textured	Gray		5% Ca Carbonate	<1% Chrysotile	
er	Plaster	Non-Fibrous		95% Non-Tibrous (Other)		
221802874-0014B		Homogeneous				
4620CL-R10-5A-Te	Knockdown Textured	White		20% Ca Carbonate	None Detected	
xture	Plaster	Non-Fibrous		80% Non-fibrous (Other)		
221802874-0015		Homogeneous				
			Inseparable paint / coating layer included	in analysis		
4620CL-R10-5A-Dr	Knockdown Textured	Brown/White	15% Cellulose	65% Gypsum	None Detected	
ywall	Plaster	Fibrous		20% Non-fibrous (Other)		
221802874-0015A		Homogeneous				
4620CL-R9-5B-Text	Knockdown Textured	White		20% Ca Carbonate	None Detected	
ure	Plaster	Non-Fibrous		80% Non-fibrous (Other)		
221802874-0016		Homogeneous				
		Inseparable paint / coating layer included in analysis				
4620CL-R9-5B-Dry	Knockdown Textured	Brown/White	15% Cellulose	65% Gypsum	None Detected	
wall	Plaster	Fibrous		20% Non-fibrous (Other)		
221802874-0016A		Homogeneous				
4620CL-R11-5C-Tex	Knockdown Textured	White		20% Ca Carbonate	None Detected	
ture	Plaster	Non-Fibrous		80% Non-fibrous (Other)		
221802874-0017		Homogeneous				
			Inseparable paint / coating layer included	in analysis		
4620CL-R11-5C-Me	Knockdown Textured	Yellow	95% Glass	5% Non-fibrous (Other)	None Detected	
sh	Plaster	Fibrous				
221802874-0017A		Homogeneous				
4620CL-R11-5C-Dry	Knockdown Textured	Brown/White	15% Cellulose	65% Gypsum	None Detected	
wall	Plaster	Fibrous		20% Non-fibrous (Other)		
221802874-0017B		Homogeneous				
4620CL-R14-5D-Tex	Knockdown Textured	White		20% Ca Carbonate	None Detected	
ture	Plaster	Non-Fibrous		80% Non-fibrous (Other)		
221802874-0018		Homogeneous				
			Inseparable paint / coating layer included	in analysis		

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



1010 Yuma Street Denver, CO 80204 Tel/Fax: (303) 740-5700 / (303) 741-1400 http://www.EMSL.com / denverlab@emsl.com EMSL Order: 221802874 Customer ID: ALLP62 Customer PO: Project ID: CDOT

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:
 04/27/2018 10:00 AM

 Analysis Date:
 05/01/2018

 Collected Date:
 04/27/2018

Project: 18-3066 - D70 - 4620 Clay (CDOT)

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

			Non-Asbesto	<u>Asbestos</u>	
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре
4620CL-R14-5D-Dry wall 221802874-0018A	Knockdown Textured Plaster	Brown/White Fibrous Homogeneous	15% Cellulose	65% Gypsum 20% Non-fibrous (Other)	None Detected
4620CL-R13-5E-Tex ture 221802874-0019	Knockdown Textured Plaster	White Non-Fibrous Heterogeneous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
4620CL-R13-5E-Dry wall 221802874-0019A	Knockdown Textured Plaster	Brown/White Fibrous Homogeneous	15% Cellulose <1% Glass	65% Gypsum 20% Non-fibrous (Other)	None Detected
4620CL-R9-5Q-Text ure 221802874-0020	Knockdown Textured Plaster	White Non-Fibrous Heterogeneous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
4620CL-R9-5Q-Dry wall 221802874-0020A	Knockdown Textured Plaster	Inse Brown/White Fibrous Homogeneous	parable paint / coating layer included in a 15% Cellulose <1% Glass	65% Gypsum 20% Non-fibrous (Other)	None Detected
4620CL-G-6A-Joint Compound 221802874-0021	Drywall/Joint Compound	White Non-Fibrous Homogeneous		20% Ca Carbonate 80% Non-fibrous (Other)	None Detected
4620CL-G-6A-Dryw all 221802874-0021A	Drywall/Joint Compound	Brown/White Fibrous Homogeneous	15% Cellulose	65% Gypsum 20% Non-fibrous (Other)	None Detected
4620CL-G-6B-Joint Compound 221802874-0022	Drywall/Joint Compound	White Non-Fibrous Homogeneous		20% Ca Carbonate 80% Non-fibrous (Other)	None Detected
4620CL-G-6B-Dryw all 221802874-0022A	Drywall/Joint Compound	Brown/White Fibrous Homogeneous	15% Cellulose	65% Gypsum 20% Non-fibrous (Other)	None Detected

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



1010 Yuma Street Denver, CO 80204 Tel/Fax: (303) 740-5700 / (303) 741-1400 http://www.EMSL.com / denverlab@emsl.com EMSL Order: 221802874 Customer ID: ALLP62 Customer PO: Project ID: CDOT

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:
 04/27/2018 10:00 AM

 Analysis Date:
 05/01/2018

 Collected Date:
 04/27/2018

Project: 18-3066 - D70 - 4620 Clay (CDOT)

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

			Non-Asbesto	<u>s</u>	<u>Asbestos</u>
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре
4620CL-G-6C-Joint Compound 221802874-0023	Drywall/Joint Compound	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
4620CL-G-6C-Dryw all 221802874-0023A	Drywall/Joint Compound	Brown/Pink Fibrous Homogeneous	15% Cellulose	65% Gypsum 20% Non-fibrous (Other)	None Detected
4620CL-EX-7A 221802874-0024	Roofing	Gray/Black Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected
4620CL-EX-7B-Shin gle 1 221802874-0025	Roofing	Gray/Red/Black Fibrous Homogeneous	30% Cellulose	70% Non-fibrous (Other)	None Detected
4620CL-EX-7B-Shin gle 2 221802874-0025A	Roofing	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



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

EMSL Order: 221802874 Customer ID: ALLP62 **Customer PO:** Project ID: CDOT

Logan Greenfield	Phone:	(719) 250-0036
All-Phase Environmental Consultants, Inc	Fax:	(719) 542-2807
721 West 9th Street	Received Date:	04/27/2018 10:00 AM
Pueblo, CO 81003	Analysis Date:	05/01/2018
	Collected Date:	04/27/2018

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:

Attention: Logan Greenfield

Project: 18-3066 - D70 - 4620 Clay (CDOT)

Sample Receipt Date: 04/27/2018 Analysis Completed Date: 05/01/2018 Sample Receipt Time: 10:00 AM 2:40 PM Analysis Completed Time:

Analyst(s):

manda Sang

Amanda Lang PLM (19)

Molly Elkins

Molly Elkins PLM (38)

Samples Reviewed and approved by:

mande

Amanda Lang, Asbestos Laboratory Manager or other approved signatory

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



 EMSL Analytical, Inc.

 1010 Yuma Street, Denver, CO 80204

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

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EMSL Order: 221802874 CustomerID: ALLP62 CustomerPO: ProjectID: CDOT

Attn:	Logan Greenfield All-Phase Environmental Consultants, Inc 721 West 9th Street Pueblo, CO 81003	Phone: Fax: Received: Analysis Date: Collected:	(719) 545-0375 (719) 542-2807 04/27/18 10:00 AM 5/8/2018 4/27/2018
Projec	ct: 18-3066 - D70 - 4620 Clay		

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

				<u>Nor</u>	-Asbestos	Asbestos
Sample	Description	Appearance	%	Fibrous	% Non-Fibrous	% Туре
4620CL-R1-1A- Plaster 221802874-0001A	Rough Textured Plaster	Gray Non-Fibrous			99.75% Non-fibrous (other)	0.25% Chrysotile
		Homogeneous				
4620CL-R1-1B- Plaster 221802874-0002A	Rough Textured Plaster	Gray Non-Fibrous Homogeneous			100.00% Non-fibrous (other)	<0.25% Chrysotile
4620CL-R4-1C- Plaster 221802874-0003A	Rough Textured Plaster	Gray Non-Fibrous Homogeneous			100.00% Non-fibrous (other)	<0.25% Chrysotile
4620CL-R1-2A- Plaster 221802874-0004A	Smooth Textured Plaster	Gray Non-Fibrous Homogeneous			100.00% Non-fibrous (other)	<0.25% Chrysotile
4620CL-R2-2B- Plaster 221802874-0005A	Smooth Textured Plaster	Gray Non-Fibrous Homogeneous			99.75% Non-fibrous (other)	0.25% Chrysotile
4620CL-R8-2C- Plaster 221802874-0006A	Smooth Textured Plaster	Gray Non-Fibrous Homogeneous			99.75% Non-fibrous (other)	0.25% Chrysotile
4620CL-R4-2D- Plaster 221802874-0007A	Smooth Textured Plaster	Gray Non-Fibrous Homogeneous			100.00% Non-fibrous (other)	<0.25% Chrysotile
4620CL-R3-2E- Plaster 221802874-0008B	Smooth Textured Plaster	Gray Non-Fibrous Homogeneous			100.00% Non-fibrous (other)	<0.25% Chrysotile
4620CL-R5-3A- Plaster 221802874-0009B	Knockdown Textured Plaster	Gray Non-Fibrous			99.50% Non-fibrous (other)	0.50% Chrysotile
		Homogeneous				

Disclaimer:Some samples may contain asbestos fibers present in dimensions below PLM resolution limits. The limit of detection as stated in the method is 0.25%. EMSL Analytical Inc suggests that samples reported as <0.25% or none detected undergo additional analysis via TEM. The above test report relates only to the items tested. This report may not be reproduced, except in full, without written approval of EMSL Analytical Inc. This test report must not be used by the client to claim product endorsement by NVLAP or any agency of the United States Government. EMSL Analytical Inc., bears no responsibility for sample collection activities, analytical method limitations, or the accuracy of results when requested to separate layered samples. EMSL Analytical Inc., liability is limited to the cost of sample analysis. The test results contained within this report meet the requirements of NELAC unless otherwise noted. Samples received in good condition unless otherwise noted. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Samples analyted by EMSL Analytical, Inc. Denver, CO NVLAP Lab Code 200828-0



EMSL Analytical, Inc. 1010 Yuma Street, Denver, CO 80204 Phone/Fax: (303) 740-5700 / (303) 741-1400 http://www.EMSL.com denverlab@emsl.com EMSL Order: 221802874 CustomerID: ALLP62 CustomerPO: ProjectID: CDOT

Attn:	Logan Greenfield All-Phase Environmental Consultants, Inc 721 West 9th Street Pueblo, CO 81003	Phone: Fax: Received: Analysis Date: Collected:	(719) 545-0375 (719) 542-2807 04/27/18 10:00 AM 5/8/2018 4/27/2018
Proje	ct: 18-3066 - D70 - 4620 Clay		

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

			Non-Asbestos			Asbestos
Sample	Description	Appearance	%	Fibrous	% Non-Fibrous	% Туре
4620CL-R5-3B- Plaster 221802874-0010B	Knockdown Textured Plaster	Gray Non-Fibrous Homogeneous			100.00% Non-fibrous (other)	<0.25% Chrysotile
4620CL-R5-3C- Plaster 221802874-0011B	Knockdown Textured Plaster	Gray Non-Fibrous Homogeneous			100.00% Non-fibrous (other)	<0.25% Chrysotile
4620CL-R3-4A- Plaster 221802874-0012B	Medium Textured Plaster	Gray Non-Fibrous Homogeneous			100.00% Non-fibrous (other)	<0.25% Chrysotile
4620CL-R3-4B- Plaster 221802874-0013B	Medium Textured Plaster	Gray Non-Fibrous Homogeneous			100.00% Non-fibrous (other)	<0.25% Chrysotile
4620CL-R3-4C- Plaster 221802874-0014B	Medium Textured Plaster	Gray Non-Fibrous Homogeneous			100.00% Non-fibrous (other)	<0.25% Chrysotile

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EMSL Order: 221802874 CustomerID: ALLP62 CustomerPO: ProjectID: CDOT

Attn: Logan Greenfield All-Phase Environmental Consultants, Inc 721 West 9th Street Pueblo, CO 81003	Phone: Fax: Received: Analysis Date: Collected:	(719) 545-0375 (719) 542-2807 04/27/18 10:00 AM 5/8/2018 4/27/2018

Project: 18-3066 - D70 - 4620 Clay

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

Report Comments:

Sample Receipt Date::	4/27/2018	Sample Receipt Time:	10:00 AM
Analysis Completed Date:	5/8/2018	Analysis Completed Time:	2:31 PM

Analyst(s):

Timothy Kleehammer PLM 400 Point Count (14)

Samples reviewed and approved by:

manda

Amanda Lang, Asbestos Laboratory Manager or other approved signatory

Disclaimer:Some samples may contain asbestos fibers present in dimensions below PLM resolution limits. The limit of detection as stated in the method is 0.25%. EMSL Analytical Inc suggests that samples reported as <0.25% or none detected undergo additional analysis via TEM. The above test report relates only to the items tested. This report may not be reproduced, except in full, without written approval of EMSL Analytical Inc. This test report must not be used by the client to claim product endorsement by NVLAP or any agency of the United States Government. EMSL Analytical Inc., bears no responsibility for sample collection activities, analytical method limitations, or the accuracy of results when requested to separate layered samples. EMSL Analytical Inc., liability is limited to the cost of sample analysis. The test results contained within this report meet the requirements of NELAC unless otherwise noted. Samples received in good condition unless otherwise noted. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Samples analyzed by EMSL Analytical, Inc. Denver, CO NVLAP Lab Code 200828-0

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	AS	bestos Cha	in of Custody	-		
	EM	SL Order Nun	nber (Lab Use Only):	Denver	CO 80204	
▼-		218028	74	PHONE	(303) 740-5700	
EMSL ANALYTICAL, INC.	~	210040	<u> </u>	Fax	(303) 741-1400	
			51101	Different		
Company ; All-Phase Er	wironmental Consu	iltants, Inc.	EMSL- If Bill to is [Different note instructions in Con	nments**	
Street: 721 W. 9th Street	et in the second s		Third Party Billing	requires written authorization	n from third party	
City: Pueblo	State/E	Province: CO	Zin/Boctal Code: 8100	Country: U	nited States	
Banart Ta (Nama) 002	n Greenfield	Tovince. 00	Tala-Lana # 719-250	-0036		
Report to (Name): Logar			Telephone #: 710-200			
Email Address: loganic			Fax #:		Jrder: mail Mail	
U.S. State Samples Take	n:CO	J-4620 Clay	Connecticut Samples	Commercial Re	sidential	
	Turn	around Time (TA	T) Options* – Please Ch	eck		
🗌 3 Hour 🚺 6 Hou	ar 🗌 24 Hour	48 Hour	72 Hour	96 Hour 🗌 🗌 1 Week	C 2 Week	
*For TEM Air 3 hr through 6 hi an authorization form I	; please call ahead to sci for this service — Analysis	edule.*There is a prei	nium charge for 3 Hour TEM / nce with EMSI 's Terms and C	AHERA or EPA Level II TAT. Conditions located in the Analy	You will be asked to sign tical Pice Guide	
PCM - Air Check if sa	mples are from NY	TEM - Air 74	4.5hr TAT (AHERA only)	TEM-Dust		
NIOSH 7400	,	AHERA 40 C	FR, Part 763	Microvac - ASTM	D 5755	
🔲 w/ OSHA 8hr. TWA		 NIOSH 7402		Wipe - ASTM D64	180	
PLM - Bulk (reporting lin	nit)	EPA Level II		Carpet Sonication	(EPA 600/J-93/167)	
PLM EPA 600/R-93/11	6 (<1%)	📋 ISO 10312		Soil/Rock/Vermiculi	te	
PLM EPA NOB (<1%)		TEM - Bulk		PLM CARB 435 -	A (0.25% sensitivity)	
Point Count		🗖 ТЕМ ЕРА НОВ		PLM CARB 435 -	B (0.1% sensitivity)	
🔲 400 (<0.25%) 🛄 1000 (<0.1%)		NYS NOB 198.4 (non-friable-NY)		TEM CARB 435 -	B (0.1% sensitivity)	
Point Count w/Gravimetric		Chatfield SOF		TEM CARB 435 -	TEM CARB 435 - C (0.01% sensitivity)	
	(<0.1%)		halysis-EPA 600 sec. 2.5		ration Technique	
	IT) friabla NV)	Eiborn >10um	PA 100.2		p-wount rechnque	
	mable-in t)	All Fiber Sizes Waste Drinking				
		7411100101203				
Check For Positive St	op – Clearly Identif	y Homogenous G	roup Filter Pore Size	(Air Samples): 0.8	<u>բտ 🗋 0.45բտ</u>	
Samplers Name:	non Gree	n field	Samplers Signature	. Z. A	ALI -	
	yare area			Volume/Area (Air)	Date/Time	
Sample #		Sample Descripti	on	HA # (Bulk)	Sampled	
Human at t	2 1	+ 1 1	Thele		4-27-10	
1020CL-KI-IA	Kough	1 extured	plaster		1 21-10	
4620CL-RI-18		1			1	
4620CL-R4-1C		Y				
4620CL-R1-2A	Smooth	Textured	Plaster		4 (
				-		
4620CL-R2-28		·				
4620CL-R8-2C		1				
4620CL-R4-20						
4620CL-R3-2E		V			V	
Client Sample # (s):		• •		Total # of Samples:	25	
Relinguished (Client):		Data	,	Time		
	Q	Dale.	4/22/10		INAA	
Received (Lab):		Date:	1/24/18	Time	: www.	
oonnients/opecial instru	icuons;		· I		INT	
				·		

Page 1 of <u>2</u> pages

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Page 1 Of 2

EMS

EMSL ANALYTICAL, INC

Asbestos Chain of Custody

EMSL Order Number (Lab Use Only):

EMSL Analytical, Inc. 1010 Yuma Street

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
4620CL-R5-3A	Knockdown Textured Plaster		4-27-18
4620CL-R5-38			1
4620CL-R5-3C	\checkmark		
4620CL-R3-4A	Medium Textured Plaster		
4620CL-R3-48			
4620CL-R3-4C	↓		
4620CL-RID-5A	Knockdown Textured Drywall		
4620CL-R9-58	1		
462002-R11-50			
4420CL-RI4-50			
4620CL-R13-5E			
4620CL-R9-5Q	V		
4620CL-G-6A	Prywall (Joint Compound		
4620CL-G-68			
4620CL-G-GC			
4620CL-EX-7A	Roofing		
4620CL-EX-78	√		\checkmark
			-
_			
*Comments/Special In	nstructions:		

Page <u>2</u> of <u>2</u> pages

LABORATORY RESULTS & CHAIN OF CUSTODY -LEAD & TCLP

EMSL	EMSL Analytical, Inc 6340 CastlePlace Dr., Indianapolis Phone/Fax: (317) 803-2997 / (317) http://www.EMSL.com	C. , IN 46250 7) 803-3047 <u>indianapolislab@er</u>	nsl.com		EMSL Order: CustomerID: CustomerPO: ProjectID:	161807722 ALLP62	
Attn: Richard R All-Phase 721 West Pueblo, C	Ralston Environmental Consult 9th Street CO	ants, Inc	Phone: Fax: Received: Collected:	(719) 225-6953 (719) 542-2807 04/30/18 10:10 A	М		

Project: Central 70 / 18-3066-

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

Client SampleDescription	Collected Analyzed	RDL	Lead Concentration
4620CL -1L 161807722-0001	4/30/2018 Site: WHITE PLASTER R1	0.010 % wt	0.081 % wt
4620CL - 2L 161807722-0002	4/30/2018 Site: WHITE PLASTER R2	0.010 % wt	0.045 % wt
4620CL - 3L 161807722-0003	4/30/2018 Site: WHITE PLASTER R7	0.010 % wt	<0.010 % wt
4620CL - 4L 161807722-0004	4/30/2018 Site: WHITE WOOD R9	0.010 % wt	0.11 % wt
4620CL - 5LQ 161807722-0005	4/30/2018 Site: WHITE FLOOR R9	0.010 % wt	0.037 % wt
4620CL - 6L 161807722-0006	4/30/2018 Site: GREEN DOOR - MITHSE R1	0.010 % wt	<0.010 % wt
4620CL - 7L 161807722-0007	4/30/2018 Site: RED DRYWALL R13	0.010 % wt	<0.010 % wt
4620CL - 8L 161807722-0008	4/30/2018 Site: BROWN - WALL - HOUSE STORY	0.25 % wt	3.8 % wt
4620CL - 9L 161807722-0009	4/30/2018 Site: GRAY - WALL - GARAGE STORY	0.25 % wt	4.0 % wt

Doug Wiegand, Laboratory Manager or other approved signatory

*Analysis following Lead in Paint by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 0.010 % 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. Indianapolis, IN AIHA-LAP, LLC--ELLAP 157245, OH E10040

EMSL ANALYTICAL, INC.	Chain of EMSL Order Nu (0 (8) 77)	F Custody mber (Lab Use Or 7	1 <u>(y)</u>	HONE (80) 220 -34 FAL (84) 858-350 PHONE
All Phase Environm	ental	E	ASL-Bill to: 🖉 S	ame Different
Company : / In Thuse Environm		if Bill 1	to is Different note in	structions in Comments**
Street: 721 Still Steet	State (Breaching CO	Third Party Bill	ing requires writte	an authorization from third party
	State/Province: 00	Zip/Postal Code:		Country:
Report To (Name): Kich Azn KA	165700	Telephone #:		
Email Address: <u>Kick C AUPhas</u> Project Name/Number: <u>CENTRAL</u> U.S. State Samples Taken:Colorado	70 18-3066-	e (20 m Please Provide Re Connecticut Sam	esults: Fax	Purchase Order: Email Mail rcial Residential
	Turnaround Time (TA	T) Options* - Plea	ase Check	
3 Hour 6 Hour	24 Hour Call Ahead to Confirm Lab Ho AQ TATs are in Business Day	urs and Availability. N s rather than Hours (i.e	96 Hour ot all TAT options a 24 Hour = End of	Image:
	As	bestos		
PCM - Air	PLM - Bulk		TEM - E	Bulk
NIOSH 7400	_ PLM EPA 600/R-93/1	16)		EPA NOB NOB 198 4 (non-friable-NY)
TEM- Air 4-4.5hr TAT(AHERA ONLY)	NYS 198.1 (friable-N	, Y)	Chat	field SOP
AHERA 40 CFR, Part 763	NYS 198.6 (non-friab	le-NY)	Soil/Ro	ck/Vermiculite CAPR 435 - A (I) 25% consitivity
	Point Count w/ Gravime	ric		CARB 435 – B (0.1% sensitivity)
ISO 10312	400 (<0	25%) 1000 (<0.1	<u>%)</u> TEM	CARB 435 – B (0.1% sensitivity)
Fibers >10µm Waste Drinking	Microvac – ASTM D :	5755	Other:	Reg T Screening Protocol (Qualitative
All Fiber Sizes Waste Drinking	Wipe-ASTM D6480			·····
	Lead (Pb)			Materials Science
Soil SW846-7000B/7420 Air NIOSH 7082 Wastewater SM3111B or SW846-7000 ASTM Wipe SW846-7000B/7420 non ASTM Wipe SW846-7000B/7420 TCLP SW846-1311/7420/SM 3111E Graphite Furnace Atomic Al Soil SW846-7421 Wastewater	DB/7420 ASTM Wipe DB/7420 Soil SW846- Waste Wate B TCLP SW84 DSorption PACTOR SW84 DTCLP SW84 D	ipe SW846-6010B or SW846-6010B or C 6010 B or C r SW846-6010B or C 6-6010B or C	r C Basi Adva Physi C Comi X-Ra X-Ra MMV Parti	c Material ID (solids) inced Material ID cal Testing (Tensile, Compression) pustion-by-products (soot, char, etc.) in Fluorescence (elem. analysis) by Diffraction (Crystalline Part) /F's (Fibrous glass, RCF's) cle Size (sieve/microscopy/laser)
M	icrobiology		Com	bustible Dust
Wipe and Bulk Samples Mold & Fungi – Direct Examination	Air Samples Mold & Fungi (Spo	ore Trap)	Other:	ographic Examination
Mold & Fungi Culture (Genus Only)	Mold & Fungi Cult	ure (Genus Only)	Niver av a	
Bacterial Count & ID (Up to Three Types) Bacterial Count & ID (Up to Five Types) MRSA	Bacterial Culture & 1 Bacterial Culture & 1 Bacterial Culture & 1 Endotoxin Testing	D (Up to Three Types) D (Up to Five Types) D (Up to Five Types)	Airborne Silica Ai Silica Ai	Dust PM10 TSP alysis: All Species alysis - Single Species
Pseudomonas aeruginosa Water Samples	Real Time Q-PCR (S	ee Analytical Guide for		pha Quartz Cristobalite Tridymit
Total Coliform & E.coli (P/A)	Legionella			on Black
Fecal Coliform (SM 9222D)	evel 1evel 2	Level 3 Level 4	Airbo	orne Oil Mist
Sewage Screen	Other:		Radon	Festing Call for Kit and COC
**Comments/Special Instructions	<u>ui</u>		<u> otner:</u>	
	•			
Client Sample #'s -	/	└ <u></u>	Total # of Sar	nples:
		AMLANV	Time	
Relinquished (Client): Related	m Date: 4	2/1 2010	1 ime:	

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,如此是我们就是我们的是不是我们的,我们们不能是你的你们的,你们就是你们的你,你们就是我们就是你们的,我们们们的你的。""你们,你们们们们,你们们们的你们,你们们

OrderID: 161807722



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

161807722

PHONE FAX

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
			· · · · · · · · · · · · · · · · · · ·
462002-12	white praster R.	N/A	4/26/2018
462 OCL-2L	white Plaster R2		
4620 CL- 3L	white Plaster R.7		
4620CL- 4L	whity wood Rg		
462002- 520	while wook Rg		
4620CL - 6L	GREEN Dave-method R		
4620CL . 74	Red Drywoll R12	N	
4620c2 - 8L	BROWN - WOLL - Chapter Story		
46 2002-9L	GRAY - WOU - GAMOS, STOLY	ł	
*Comments/Special I	nstructions:		<u> </u>

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

	EMSL	EMSL Analytical, 6340 CastlePlace Dr., Indiana Phone/Fax: (317) 803-2997 http://www.EMSL.com	Inc. polis, IN 46250 / (317) 803-3047 indianapolislab@emsl.com		EMSL Order: CustomerID: CustomerPO: ProjectID:	161807767 32PHAS54
Attn:	Richard R All Phase 8792 Lauc Suite 200 Huntingto	alston Environmental, Inc. der Circle on Beach, CA 92646-2	Phone: Fax: Received: Collected: 2222	(714) 593-3800 (714) 593-0012 04/30/18 10:10 A	M	
Projec	ct: Central 70	/ 18-3066-				

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

Client SampleDescription	Collected	Analyzed	RDL	Lead Concentration	
4620CL - TCLP		5/1/2018	0.40 mg/L	0.44 mg/L	
161807767-0001					

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Doug Wiegand, Laboratory Manager or other approved signatory

This report relates only to those items tested. Samples received in good condition unless otherwise noted. Quality Control Data associated with this sample set is within acceptable limits, unless otherwise noted

Samples analyzed by EMSL Analytical, Inc. Indianapolis, IN

OrderID: 161807767

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Chain of Custody EMSL Order Number (Lab Use Only): 618077

EMSL ANALYTICAL, INC.

EMSL	ANAY	11(1)	-, INC	
200 Ro	ute 1.	30 N	J:274	
CINNA	mins	on	NJ 0801	17
PHONE	(800)	220	-3675	
FAK	(256)	658	-3502	

PHONE: FAX

				1700.	
Company : All Phase Environm	EMSL-Bill to: Same Different				
Street 721 9th Street	Third Party Billing requires written authorization from third party				
City: Pueblo	State/Province: CO	Zin/Postal Code: Country:			
Report To (Name): Richann Pa	(57.4)	Telephone #		country.	
Email Address:	Actor		Burchasa Ordan		
Project Name/Number:	EEDVIRON MENTOL	e COM	culte: Ea	y Email Mail	
IIS State Samples Taken: Colorado	10 18-3066-	Connecticut Same		mercial Residential	
o.o. otate oumples raken.colorado	Turnaround Time (TA	T) Ontions* - Plea	se Check		
	A Hour A8 Hour	72 Hour	G Hour		
*For RUSH TAT's Please (Materials Science and IA	Call Ahead to Confirm Lab Ho AQ TATs are in Business Day	ours and Availability. No	ot all TAT option	ns are valid for every test. d of Next Business Day)	
	As	sbestos			
PCM - Air	PLM - Bulk		TEM	I - Bulk	
NIOSH 7400	PLM EPA 600/R-93/1	116		EM EPA NOB	
W/ 8hr. TWA	PLM EPA NOB (<1%)		IYS NOB 198.4 (non-friable-NY)	
AHERA 40 CER Part 763	NYS 198.1 (mable-N	Y) Io NIX)	Soil	Pack/Vermiculite	
NIOSH 7402	Point Count 400 (<0.	25%) 1000 (<0.1	%) P	PLM CARB 435 – A $(0.25\% \text{ sensitivity})$	
EPA Level II	Point Count w/ Gravimet	ric	P	PLM CARB 435 – B (0.1% sensitivity)	
ISO 10312	400 (<0	.25%) 1000 (<0.1	%) 🗌 T	EM CARB 435 – B (0.1% sensitivity)	
TEM - Water	TEM - Dust		LE	PA Reg. 1 Screening Protocol (Qualitative)	
All Fiber Sizes	Microvac – ASTM D 5	5755	Othe	er:	
Var Hoer Orzes Waste Drinking	Lead (Pb)			Materials Science	
Elame Atomic Absorption		ICP		Common Particle ID (large particles)	
Chips SW846-7000B or AOAC 974.	02 Air NIOSH 7	300 Modified	HE	ull Particle ID (environmental dust)	
Soil SW846-7000B/7420	non ASTM W	ipe SW846-6010B o	rC B	Basic Material ID (solids)	
Air NIOSH 7082	ASTM Wipe	SW846-6010B or C		dvanced Material ID	
Wastewater SM3111B or SW846-7000	B/7420 Soil SW846-	6010 B or C	P	hysical Testing (Tensile, Compression)	
ASTM Wipe SW846-7000B/7420				combustion-by-products (soot, char, etc.)	
TCL P SW846-1311/7420/SM 3111B	6.6010B or C		Bay Eluorescence (elem analysis)		
Graphite Furnace Atomic Ab	sorption Othe		—— H _x	(-Ray Diffraction (Crystalline Part.)	
Soil SW846-7421 Wastewate			MVF's (Fibrous glass, RCF's)		
Air NIOSH 7105 Drinking W	ater EPA 200.9			Particle Size (sieve/microscopy/laser)	
Mi	crobiology			Combustible Dust	
Wipe and Bulk Samples	Air Samples	Tran)	P	Petrographic Examination	
		ore (rap)	Othe		
Mold & Fungi Culture (Genus Only)	Mold & Fungi Cult	ure (Genus Only)	Nuis		
Restorial Count & ID (Up to Three Types)			Nuis		
Bacterial Count & ID (Up to Five Types)	Bacterial Culture & I	D (Up to Three Types)	Silic		
MRSA	Endotoxin Testing		Silica	a Analysis – Single Species	
Pseudomonas aeruginosa	Real Time Q-PCR (S	ee Analytical Guide for	Code)	Alpha Quartz Cristobalite Tridymite	
Water Samples	Code:		Пн	IVAC Efficiency	
Total Coliform & E.coli (P/A)	Legionella			arbon Black	
Fecal Coliform (SM 9222D)	_evel 1 _evel 2	Level 3 Level 4		irborne Oil Mist	
Sewage Screen	Other:		Rade	on Testing: Call for Kit and COC	
Heterotrophic Plate Count (SM 9215))		Othe	er:	
**Comments/Special Instructions:					
Client Sample #'s	some wi		Total# of	Samples:	
Relinguished (Client): PDala	1	Time:	E C C		
Received (Lab):	Date: 4/2	7/18	Time: 10	:00 am WT_	
Analysis Completed in Accordance with	EMSL's Terms and Cond	itions located in the	Analytical Pr	ice Guide	
Controlled Document-OneChain-R3-11/8/2011	Randoond	4.20	D A		
1 ste	a sprach	- 1-30-1	0 10	NOV K	
				\mathcal{O}	

OrderID: 161807767



Chain of Custody EMSL Order Number (Lab Use Only): 101807707

PHONE: FAX

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled			
462000- ta	LP TCLP.					
and a set of the set of the						
		New Company and				
*Comments/Special Ins	*Comments/Special Instructions:					

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



3b. Pre-Demolition Engineering Survey



Pre-Demolition Survey And General Demolition Plan For 4620 Clayton Street Denver, CO 80216



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

> June 28, 2018 Project No: 180113

\$ 2535 17" STREET, DENVER, CO 80211 \$ 303-783-4797 \$ 303-830-9133 FAX \$

1 OF 5

ANCHOR ENGINEERING, INC.

June 28, 2018

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

Re: 4620 Clayton Street, Denver, CO 80216 Pre-Demolition Engineering Survey per OSHA 1926.850(a) And General Demolition Plan

Date of Observation: 06/26/18

Dear Mr. Di Nardo:

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

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

The purpose of our site visit was twofold:

- 1. To give an assessment of the current condition of the structure as it relates to structurally related hazards before the proposed demolition activities. OSHA 1926.850 is stated below, along with project specific applicability to the subject building.
 - a. <u>OSHA 1926.850(a)</u>: Prior to permitting employees to start demolition operations, an engineering survey shall be made, by a competent person, of the structure to determine the condition of the framing, floors, and walls, and possibility of unplanned collapse of any portion of the structure. Any adjacent structure where employees may be exposed shall also be similarly checked. The employer shall have in writing evidence that such a survey has been performed.

<u>Project Specific Applicability:</u> The information contained in this report satisfies the requirement of this guideline. The subcontractor shall review this report and make a copy available to all employees on the project at the pre-project meeting, and it shall also be included in the job site books.

b. <u>OSHA 1926.85(b)</u>: When employees are required to work within a structure to be demolished which has been damaged by fire, flood, explosion, or other cause, the walls or floor shall be shored or braced.

<u>Project Specific Applicability:</u> 4620 Clayton Street, Denver, CO 80216 has not been damaged by any fire, flood, explosion, or any other event. Therefore, no shoring or bracing is required.

c. <u>OSHA 1926.850(c)</u>: All electric, gas, water, steam, sewer, and other service lines shall be shut off, capped, or otherwise controlled, outside the building line before demolition work is started. In each case, any utility company which is involved shall be notified in advance.

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

🔹 2535 17TH STREET, DENVER, CO 80211 🔹 303-783-4797 🔹 303-830-9133 FAX 🌸



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.

<u>Project Specific Applicability:</u> The demolition of 4620 Clayton Street, Denver, CO 80216 does not require any power, water or other utilities.

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

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

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

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

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

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

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

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

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

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

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

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



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

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

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

No architectural or structural drawings were provided for our review.

The residence is a single-story residential structure and is assumed to be founded on a spread footings. The structure has a full basement with concrete foundation walls and an assumed concrete slab on grade floor. The residence is approximately 24'-6''x30' with the long direction oriented north to south. The wall and roof framing is assumed to be composed of dimension lumber framing. The detached garage is approximately 18'x20' with the long direction oriented north to south. It is a wood-framed structure on a concrete foundation with a slab on grade floor.

Existing Condition Observation

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

Outline of Proposed Demolition Procedures, Equipment, and Sequence

Equipment

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

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

Demolition Sequencing

General

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

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

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

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$ 2535 17" STREET, DENVER, CO 80211 $ 303-783-4797 $ 303-830-9133 FAX $
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Sequence

The residence superstructure may be collapsed into the basement starting at either the northwest or northeast sides of the building and proceeding thru the length of the building to the south. Do not drive equipment onto the footprint of the building until the structure has been collapsed. The detached garage shall be demolished starting from the east side and proceeding to the west. The alley will require temporary closure during demolition procedures to prevent public endangerment. The south and east sides of the garage are in close proximity to the south and east property lines. The property located to the south is also scheduled for demolition. The property is bordered on the north by a private residence which was not scheduled for demolition at the time of this report. Once the roof, wall, and floor systems are demolished, the slab on grade and foundations can be removed in any sequence.

Closing

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

Sincerely, Anchor Engineering, Inc.

Glen L. Wilson, E.I. Design Engineer



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


4. Materials Summary

JKSINDUSTRIES.NET



December 26, 2018

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

RE: AP-75 4620 Clayton St. - Summary of Removed Materials

Dear Jenn,

Below is a summary of the materials removed from the structure located at 4620 Clayton St.

Material Removed	Quantity
Regulated Building Materials	5 Lightbulbs and 1 gal Latex Paint
Clean Demolition Debris	403,200 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. RBM Manifest

WASTE		ADING &	CERTIFICATE OF RECYCLING	2			P/II Fees: \$25 \$30 \$40 \$45 \$55	DOL #	27201
NAGIE I	Universal Waste 4' Jumbo 4' Box 8' Jumbo 8' Box				\$65 \$75 \$95 \$05 \$105	BOL#:	27201		
	TSCA Was	te	HID Box Battery Box6.5 Gal	Ion Pale			\$115\$125\$135\$145\$155		
	Special Wa	iste	14-G PD 30-G PD55-G PD	_ CY Bx			Labor Charges: \$	Shipment	Date:
Generator	Of Waste:		95-G PD 55-G SD 85-G SD	GL Box	Bill To:	KSINS	Off Spec. Charge: \$	111	1.0
Name:					Name:	KS The	Justries	101	6/18
Address:					Address:	47 Sherdi	an Rid		
City, State,	Zip:				City, State,	Zip:	1 (a gazy)	-	
Contact:					Contact:	Lakewo	00 (0. 002191	Emergen	cy Contact
Phone:			Fax		Phone:	ett Kni	aht	(877) 3	31-2149
DO#					720	-402-4410		Exten	SION 4
PO#			JOD#		PO#		Job#		
WASTE BE	ROKERAGE	FACILITY:			EPA ID#	COR000231449			
X	H8E, LLC	mant Chus	-			Destination Facility	/ For Universal Waste		
	4610 New	City	Colorado 80033-2244			Large Quantity Hai	ndler of Universal Waste		
	(p) 303-42	24-4887 (1	f) 303-424-9193			Used Oil Transport	ter/Transfer Facility		
	Email: Mil	ke@R8Er	viro.com		US DOT #:	050108 550 051Q	HMP-20746		
Contai	www.R8En	/iro.com			US DOT	1781660 CO	TSCA - EPA Approved PCB Handler		
Count	Туре	Was	te Common Name			DOT Description		Total	Unit / Wt.
		4' & UNDE	R FLUORESCENT LAMP/S RECYCLI	NG	Non-DOT	Regulated (per 49 CF	FR 173.164(e))	Geoching	Volume
2	CF.	5' & OVER	FLUORESCENT LAMP/S RECYCLIN	G	Non-DOT	Regulated (per 49 CF	-R 173.164(e))	12	On.
		UTUBE FLU	JORESCENT LAMP/S RECYCLING		Non-DOT	Regulated (per 49 CF	FR 173.164(e))		
	CF	CIRCULAR	FLUORESCENT LAMP/S RECYCLING		Non-DOT	Regulated (per 49 CF	FR 173.164(e))		
	CF	COMPACT	FLUORESCENT LAMP/S RECYCLING		Non-DOT	Regulated (per 49 CF	FR 173.164(e))	44	ea
		HID MERCU	JRY/HALIDE/SODIUM LAMP/S RECYCLIN	IG	Non-DOT	Regulated (per 49 CF	-R 173.164(e))	24	ea
		SHIELD/CO	ATED/GROOVED LAMP/S RECYCLING		Non-DOT	Regulated (per 49 CF	-R 173.164(e))	31	
		UV/ABC/IGN			Non-DOT	Regulated (per 49 CF	-R 173.164(e))	34	la
		BROKEN LA	AMP/S RECYCLING		Non-DOT	Regulated (per 49 CF	-R 173 164(e))	-	
		CRUSHED I	FLUORESCENT LAMP/S RECYCLING (pro	ocessed)	Non-DOT	Regulated (per 49 CF	FR 173.164(e))		
		PCB WAST	E RECYCLE/INCINERATION/MICROENCA	AP	RQ, UN3432, Polychlorinated biphenyls, Solid, 9, PGIII, ERG#171				
		NON-PCB B	ALLAST RECYCLE/MICROENCAPSULAT	ION	Non-RCRA / Non-DOT Regulated Waste				
		ESCRAP RE	ECYCLING		Non-DOT Regulated				P
		MERCURY	DEVICE RECYCLING		UN3506, M	ercury Contained in Ma	nufactured Articles, 8 (6.1), PGIII, ERG#172		
		LEAD ACID	BATTERY RECYCLING		UN2794, I	Batteries, Wet Filled w	v/ Acid, 8, PGIII, ERG#154	-	
					Batteries,	Dry, sealed, n.o.s. Sp	pecal Provision 130		
		LITHIUM ME	TAL BATTERY BECYCLING - DOT 173 1	85(d)	LIN3090 I	ithium Batteries 9 P			
		LITHIUM Ior	BATTERY RECYCLING - DOT 173.185(d)	UN3480, I	ithium Batteries, 9, P	GII, EBG#138		
		WASTE OIL	RECYCLING		Special W	aste Liquid		1	AAL
		WASTE GL	YCOL RECYCLING		Special W	aste Liquid		1	21112
	Calland	WASTE AEF	ROSOLS		UN1950,A	erosols,Flammable,2.	.1,ERG#126		
71	GALION	WASTE LAT			Special W	aste Liquid		71	GAL
		LOW RADIA	ATION CONTAINING SMOKE DETECTOR	S	Special W	aste Solid, Nuclear Re	egulatory Law 10 CFR 32.37		
		METALS RE			Special W	aste Solid			
		MISCELLAN	EOUS RECYCLING 3 MICON	Javes	opecial W				
		MISCELLAN	EOUS RECYCLING	E Frider	S			10	Qe
Generato	r Certificat	tion:	This is to certify that the above named mater	ials are properly class	ified, describe	d, packaged, marked, and			
			labeled and are in proper condition for transp	portation according to	the applicable	regulations of the Departm	ent of Transpotation.		
1	2		Unpaid invoices will be assigned to a license	ed Collection Agency	and subject to	Collection Agency Fee's, Att	troney's Fee's, Court Costs and Interest.	11 1 -	0
Signature	: 6				Title:	<u>tor</u>	Print Name	Date:	10
		-	- 0 - 1				- michane.	Date.	
Transporte	er 1 Name:	Jesu	S (asado			Transporter 2 Name:			
Phone Nu	mber: 77	20	245-1685			Phone Number			
i none i vai									
1-6									
Signature	Dubicati	o the class	nification and results' and the	Date		Signature		Date	
apparent	aood orde	o the clas	Please retain a copy of this door	iment as the "	ertificatio	n of Becycling" for	property described above is in		
		-	. I case retained copy of this doct		er incailo	in or necycling 10	no nems and quantities listed above.		
0:	H	2					10/18		
Signature	C	/	0			Date			



6. Weight Tickets



6a. Daily Load Trackers and Associated Truck Tickets

Asbestos Abatement • Lead Abatement • Mold Remediation • Soil Remediation • Select Interior/Structural Demolition *jksindustries.net • 0:303.238.0207 • F: 303.238.0452 • 747 Sheridan Blvd. #9A, Lakewood, CO 80214 Veteran Owned • Certified: MBE, DBE, SBE*



Daily Load Tracker Prepared By: <u>JRSUS</u> Casado

Date: 10-25		25-18		Project: AP 75 18-313			13	Prepared By: ASUS Casado			
	Date.	10 0		-			Material				Dump Site Ticket
	Arrival Time		Departure Time		Load #	Truck #	Code	Description	<u>Tons/Yards</u>	<u>Dump Site</u>	Number
25	7:50		8:15	ampm	1	CH376	Trash	Demo debris	18 yds	Dads	
00	8:15	am/ pm	8:35	am/ pm	2	CH 575	trash	Demo clibris	18 4 3	Dads	
	10:00	am/ pm	10:20	am/pm	3	CH 376	trash	Demo debris	18 105	Dads	
	10:20		10:45	am / pm	4	CH 575	trash	Demo debris	18 4 05	Dads	
	11.55		12:15	am / pm	.5	CH376	trash	Deno debris	18105	Dads	
	12:10	am / fm	12:25	am pm	6	CH 575	trash	Demo dibris	18403	Dads	
	1:55	am / pm	2:10	am / pm	7	CH376	tash	Demo clubris	18 123	Dads	
	2:10	am / om	2:30	am / pm	8	CH575	trash	Demo debiis	18415	Deds	
	3:55	am / pm	4:25	am (pm)	9	CH 376	trash	Deno debris	18425	Pads	
1	4:30	am / pm	4:50	am / pm	10	CH 375	trash	Dereo debris	184ds	Dads	and the second second
026	7:40	am / pm	8:00	am / pm	11	CH575	trash	Dimo albris	18425	Dads	
`	8:00	am pm	8:20	am) pm	12	CH376	= trash	Dimo debris	18428	Dods	
	9:50	am) pm	10:05	(am) pm	13	CH575	trash	Demo debris	18429	Pade	
	10:05	am/ pm	10:20	(am) pm	14	CH37	s trash	Demo dibris	18 1 28	pada	
	12:00	am pm	12:20	am / pm	15	CH575	trash	Dero debris	18 yas	Wadg	1
	12:20	am / pm	1245	am / pm	16	CH316	trash	Demo debus	18905	Dods	
		am / pm		am / pm							
		am / pm		am / pm							
		am / pm		am / pm							
		am / pm		am / pm							
		am / pm		am / pm							
		am / pm		am / pm							
		am / pm		am / pm							
	all east of	am / pm		am / pm							
		am / pm		am / pm							

Legend:

Materials: R = Recycle T = Trash

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

CHACONS construction & transport		We	No. 8533 2920 W. 73rd Ave. stminster, CO 80030 Fax 303-331-8259 PH 720-357-1448
BILL TO:	S-H	.5	
DISPATCHED BY:	Chi	icon'	S
DATE: 10/25/18	JOB DESCRI	PTION:	
TRUCK # 376	Der	non	omes
	()er		
MATERIAL PMO			
	LOAD	S	UNLOADS
JOB#	/		DAIDS
LOAD AT	- 1		JA-DS
4621 Chaylon	1		JA.DS
-	/		71.05
UNLOAD AT		1.11	
DADS			
RATE \$			
START TIME 730			
STOP TIME 6:30			
TOTAL HOURS			
	OWNER OF	TRUCK:	
DRIVER'S NA	ME	AUTH	ORIZED SIGNATURE
José Maria		Aaus	
collection of this account become	es necessary, client	accounts bear inte agrees to pay all o	costs and reasonable attorney fees.





Nº 50834

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.

CHACONS construction & transport		e We	No. 8534 2920 W. 73rd Ave. stminster, CO 80030 Fax 303-331-8259	
BILL TO: DISPATCHED BY: DATE: DATE: TRUCK # TANDEM TRAILER MATERIAL	JOB DESCRI	S acon' ption: ns how	PH 720-357-1448	
	LOAD	S	UNLOADS	
JOB#	/		VA.DS	
10AD AT 121. Clayton St	1		DA.DS DA.DS	
UNLOAD AT DA.MA				
RATE \$				
HOURLY TONMILE				
START TIME				
TOTAL HOURS				
8	OWNER OF	TRUCK:		
DRIVER'S NAI	DRIVER'S NAME AUTHORIZED SIGNATU Net due 30 days from date of this statement. Past due accounts bear interest at 1.5% per month. In the collection of this account becomes necessary, client agrees to pay all costs and reasonable attorned.			





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

BILL TO: J-KS							
DISPATCHED BY: CHACONS							
DATE 10 DG17	JOB DESCR	RIPTION:					
TRUCK # 4575	HALLI	NG					
	P	tbree					
MATERIAL	tion	4(2)	Cher tay				
	LOA	DS	UNLOADS				
JOB#							
LOAD AT	.111						
461,							
CIAYTON							
7"							
UNLOAD AT							
DAPS							
2 AUNOFIL							
RATE \$							
START TIME 730							
STOP TIME							
TOTAL HOURS							
A							
T	OWNER OF	TRUCK:					
DRIVER'S NAM	E	AUTHORIZED SIGNATURE					
a		Anit	alas.				
Not due 30 days from date of this st collection of this account become	atement. Past due s necessary, client	accounts bear inter agrees to pay all co	rest at 1.5% per month. In the event osts and reasonable attorney fees.				



6b. Waste Weight Tickets

2475530



Denver Arapahoe Disposal 3500 S Gun Club , PO Box 460397 Aurora, CO, 80018 Ph: (720) 876-2620 Original Ticket# 3246586

Customer Name JKSINDUSTRIESLLC JKS Industri Ticket Date 10/25/2018 Payment Type Credit Account Manual Ticket# Hauling Ticket# Route State Waste Code Manifest Destination PO Profile () Generator	I Carrier JKS INDUSTRIES J Vehicle# 1 Container Driver Check# Billing # 0014925 Gen EPA ID Grid	KS INDUSTRIES Volume	
Time Scale (In 10/25/2018 06:45:36 MANUAL WT ar Out 10/25/2018 06:45:36 ar * Comments 10 loads drop tickets = 180 cyc PLEASE MAKE SURE YOUR TICKET IS	Operator Inbound ramirez ramirez Manual Weight ds total for loads 10/25/18 S CORRECT BEFORE SIGNING.	Gross 2 lb Tare 1 lb Net i 1 Tons)*)∦ Lb

Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
can see our day and our our and				an allow allow a the recar could detail a to be over their spins a		er anligt berne retter sande funde er er einer sinne beide mittel anne abeide verste	enast diver, union assess conce 18205 rise is suiter where today terms where
1 COV-CONST DEBRI	5 - 100	190.00	Varde				

i.

Total Fees Total Ticket

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402WM-N Driver's Signature Please note: the following manifests were mistakenly labeled as having been for AP-70. After reconciling the load trackers, it was found that these were actually waste from AP-75. No loads were taken from AP-70 on 10/25/2018.

Date: 10-25-18 Ticket#: AP _ 75 JKS INDUSTRIES ACCT#:306-14925 CENTRAL 70 PROJECT V CDY 18 YDS 25 YDS HIGHSIDES____ DISPOSAL SITE: DADS 3500 S GUN CLUB RD AURORA CO 80018 DRIVER Signature: Date: 10-25-18 Ticket#: AP-75 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:





2475530



Denver Arapahoe Disposal 3500 S Gun-Club , PO Box 460397 Aurora, CD, 80018 Ph: (720) 876-2620 Original Ticket# 3246586

Customer Name JKSINDUSTRIESLLC JKS Industri Ticket Date 10/25/2018 Payment Type Credit Account Manual Ticket# Hauling Ticket# Route State Waste Code Manifest Destination PO Profile () Generator	Carrier JKS INDUSTRIES . Vehicle# 1 Container Driver Check# Billing # 0014925 Gen EPA ID Grid	JKS INDUSTRIES Volume
Time Scale (In 10/25/2018 06:45:36 MANUAL WT an Out 10/25/2018 06:45:36 an * Comments 10 loads drop tickets = 180 cyc PLEASE MAKE SURE YOUR TICKET IS	Operator Inbound ramirez Manual Weight ds total for loads 10/25/18 S CORRECT BEFORE SIGNING.	Gross 2 lb* Tare 1 lb* Net 1 lb Tons
Product LD% Qty U	DM Rate Fee	Amount Origin
1 CDY-CONST DEBRIS - 100 180.00 Ya	rds	

ı.

Total Fees Total Ticket

.

402WM-N Driver's Signature




WASTE	MANAGEMENT

Denver Arapahoe Disposal 3500 S Gun Club , PO Box 460397 Aurora, CD, 80018 Ph: (720) 876-2620 Original Ticket# 3247927

2475292

Customer Name JKSINDUSTRIESLLC JKS Industry Ticket Date 10/26/2018 Payment Type Credit Account Manual Ticket# Hauling Ticket# Route State Waste Code Manifest Destination PO Profile () Generator In 10/26/2018 07:37:23 MANUAL WT a Out 10/26/2018 07:37:23 SANUAL WT a Comments 6 loads on 10/26/18 = 108cyds	i Carrier JKS INDUSTRIES Vehicle# 1 Container Driver Check# Billing # 0014925 Gen EPA ID Grid Operator Inbound ramirez ramirez Manual Weight total	Gross Tare Net Tons	2 15* 1 15* 1 15
PLEASE MAKE SURE YOUR TICKET I	S CORRECT BEFORE SIGNING.		
Product LD% Qty L	IOM Rate Fee	Amount	Origin
4 ODV DOUDT DEDDIE 400 400 00 V.		stad inne mile fant with data outs over othe data with the	an units their shear think takes dates been aven a free

1 CDY-CONST DEBRIS - 100 108.00 Yards

Total Fees Total Ticket

.

i.

Driv402WM-NSignature



Signature:__











7. Dump Diversion Summary

JKS Industries

AP-75: 4620 Clayton St.

	Descriptions	Dump Diversion / Recycle %								
Phase	Activity	<u>Unit of</u> <u>Measure</u>	# of Yards per	<u># of</u> Containers	<u>Total</u> <u>Number of</u>	Pounds Per	<u>Total</u> Lbs	<u>Recycled</u> <u>Yes/No</u>	Pounds of Recycle or Dump	<u>% of</u> <u>Recycle or</u> <u>Dump</u>
			<u>Container</u>		<u>Yards</u>	<u>Yard **</u>			<u>Diversion</u>	<u>Diversion</u>
Demolition	Demolition Construction Debris	Cubic Yard	18	16	288.00	1,400.00	403,200			
Demolition	Concrete Debris	Cubic Yard	12	-	-	4,050.00	-	х	-	0.00%
Demolition	Trees	Cubic Yard	-	-	-	500.00	-	х	-	0.00%
Demolition	Steel	Lbs	12	-	-	1,000.00	-	х	-	0.00%
Demolition	Copper	Lbs					-	х	-	0.00%
				16	288.00		403,200		-	0.00%
<u>STUDY NOTE</u> 1	<u>FUDY NOTES</u>									

2 Conversions ratio's have been modified based on estimated compaction.



8. Daily Logs

Asbestos Abatement • Lead Abatement • Mold Remediation • Soil Remediation • Select Interior/Structural Demolition jksindustries.net • 0:303.238.0207 • F: 303.238.0452 • 747 Sheridan Blvd. #9A, Lakewood, CO 80214 Veteran Owned • Certified: MBE, DBE, SBE

ON-SITE DAILY SIGN- IN SHEET

Date : 10-2 Project Name: Ap Project NO: 18-3 Supervisor:

NAME Initial **EMPLOYER** TIME IN TIME OUT TIME IN TIME OUT TOTAL 10-24 Jesus Casado JC JRS 4:00pm GODPM amrob Ramira IR RS 4:00 PM 600 PM 10-25 SC Josus Casado JRS 7:00 AM 5:00 PM JamrobRamilez 12 JKS 7:00 AM 5:00 PM Jose Sanchez 15 Chacon 7:30 AM Torce Cabrera Chacon JC 7:30 AM Jesus Casarlo JC JKS 10-26 7:00 AM Jamob Kamirez IR SKS 7:00 AM Jorge Chappen JC 7:30 pm CHACONS ose Sanchez Chacon's 7.30 RM 15 TOTAL

.lob #	Joh Name.	U DAILT PRUJEUT LU	JG Demost //		
Date Dav	500 Name.	Report #			
Duy					
Project Manager		Superintendent			
Vork Performed Today			Weather:		
			Temp. HiLow_		
			Safety Meeting		
			I OPIC:	lunch on	
			Project Manager	-Tedmuk	
			Project Supervisor		
			Operators		
			Laborers		
			Tradesmer		
			Other:		
			Other:		
			Other:		
			Waterials Used	Quantity	
			Material Purchased/) elivered	
	,				
roblems - Delays, Safety Issue	s				
		-			
ubcontractor Progress					
nspections					
Equipment Rented Today	Rented From	Insp Chklist Complete?	Equipment	Hours	
Visitors (Incl. Subs. Clients. etc.)	Time In/Time Out	Activity Opsits			