Appendix

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APPENDIX C - RAILCAR HAZARDOUS MATERIAL



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November 29, 2022

Thomas Cobb City of Cheyenne, Wyoming 2101 O'Neil Avenue Cheyenne, WY 82001

RE: Cheyenne, Wyoming 15 UPRR Railcars Hazardous Material Inspection Summary Letter Report Earth Services & Abatement Project Number: DENP000352

Mr. Cobb:

Enclosed is Earth Services & Abatement's (ESA) Hazardous Hazardous Material Summary Letter Report for the 15 Union Pacific railcars that are slated to be donated to the City of Cheyenne, Wyoming.

ESA appreciates this opportunity to provide these consulting services to The City of Cheyenne, Wyoming. We have enjoyed working with you on this project and look forward to meeting your needs in the future. Should any questions arise concerning this report, please contact us at (402)578-6858.

Jőseph Kulm AHERA Certified Asbestos Inspector #C6LEMQA0R3U

Amanda Wozab Director of Consulting Services Earth Services & Abatement, LLC.

ATTACHMENTS:

- I-Hazardous Materials Summary Table
- II AHERA Asbestos Inspector Certification



HAZARDOUS MATERIAL INSPECTION SUMMARY LETTER REPORT

15 UPRR RAILCARS

CHEYENNE, WYOMING

November 29, 2022

I. INTRODUCTION

Earth Services & Abatement, LLC (ESA) inspected 15 railcars located in Cheyenne, Wyoming for Union Pacific Railroad (UPRR) for asbestos-containing materials (ACM), lead-containing paint, and polychlorinated biphenyl- (PCB) containing caulking between July 13, and August 20, 2021. Asbestos Hazard Emergency Response Act (AHERA) certified Asbestos Inspector Joseph Kulm (certification #C6LEMQA0R3U) conducted these inspections.

The purpose of the inspections was to determine locations and quantities of asbestos-containing products in these rail cars. These inspections were limited, as the inspector only had hand tools available to him to conduct the inspections. There maybe additional suspect material present in areas that were inaccessible that may be hazardous.

These inspection reports were the sole source of information used for developing estimated pricing and recommendations included herein. Material conditions may have changed since the time of these inspections. It is recommended that a site visit take place for determining final pricing and hazard analysis based on current material conditions.

II. BACKGROUND

A. Laboratory Methods & Hazard Definitions

Any product containing more than 1% fibrous asbestos, when analyzed by polarized light microscopy (PLM), is considered a potential hazard by the Environmental Protection Agency (EPA). PLM is the EPA-recognized method for determining fibrous bulk asbestos content.

Paints containing more than 0.5% lead content, when analyzed by Method SW846 7420/3050B Flame AA analysis, are considered a potential hazard by the EPA. Method SW846 7420/3050B Flame AA analysis is the EPA-recognized method for determining lead content in paint.



The majority of samples collected were analyzed by J3 Laboratory, a National Voluntary Laboratory Accreditation Program (NVLAP)-accredited laboratory in Houston, Texas. Duplicate quality control samples were collected for every twenty samples collected. The duplicate samples were analyzed by EMSL Laboratory, a NVLAP-accredited laboratory in Denver, Colorado.

No suspect PCB containing caulking was identified during the 2021 inspection efforts, therefore no samples were collected or analyzed.

B. Health Hazard Considerations

Friability is the characteristic of a substance describing its ability to be crumbled, pulverized, or reduced to powder by hand pressure. When applied to asbestos-containing substances, friability describes the substance's fiber release potential. Because asbestos becomes a health hazard when inhaled or ingested, the more likely an asbestos-containing substance is to crumble when disturbed the greater its hazard potential.

Similarly, because lead becomes a health hazard when inhaled or ingested, therefore the worse the condition of the lead-based paint, the greater its hazard potential.

III. SUMMARY OF FINDINGS & RECOMMENDATIONS

A. Recommendations based on Proposed Tourism Use

The Hazardous Materials Summary Table in Attachment 1 lists the hazardous materials, materials that exceed the regulatory thresholds, as identified in the 2021 inspection reports. This table includes the laboratory results, our ranking of the potential hazard that the materials pose, and an estimated cost for abatement of each material. These recommendations are based on the assumption that these cars will be walked through by the general public. Based on this use, our recommendations for abatement are ranked as follows:

- 1. First priority for removal, immediate risk to health and the environment.
- 2. Second priority for removal, very likely to pose health risk to those who enter or work on or around these materials.
- 3. Third priority for removal, does not currently pose a health risk to those who enter or work around these materials but will likely degrade and need removal in the future, as long as material is not disturbed in the meantime.
- 4. Fourth priority for removal, does not currently pose a health risk to those who enter or work around these materials and will not likely degrade and need removal in the foreseeable future, as long as material is not disturbed.

These rankings were chosen based on the location of the material, condition of the material, and laboratory results. Materials that were identified as damaged and/or friable and people entering the railcars or working in or around the cars would likely encounter were ranked a higher priority for abatement.



Below is a summary by railcar of materials that were identified as rankings 1 and 2 (priority) for removal:

- 906208 Abatement Estimate \$10,170
 - o Beige floor tile, 2.41% asbestos, 760 SF, Rank 1, \$7,980
 - Red vinyl flooring, 2.45% asbestos, 40 SF, Rank 1, \$580
 - White pipe wrap, 70% asbestos, 8 LF, Rank 2, \$360
 - Old pipe insulation, 40% asbestos, 16 SF, Rank 2, \$400
 - o Beige Paint, 1.70% lead, Interior of car assuming 10% damaged, Rank 2, \$850
- 906200 Abatement Estimate \$19,295
 - o Gray floor tile, 2.32% asbestos, 460 SF, Rank 1, \$4,830
 - o Gray insulation, 70% asbestos, 81 SF, Rank 2, \$1,215
 - White fiberboard 30% asbestos, 10 SF, Rank 2, \$250
 - Red cementitious flooring, 1.75% asbestos, 810 SF, Rank 2, \$12,150
 - o Beige Paint, 2.40% lead, Interior of car assuming 10% damaged, Rank 2, \$850
- UP 928 Abatement Estimate \$16,360
 - White pipe wrap, 90% asbestos, 222 LF, Rank 2, \$9,990
 - Gray transite, 20% asbestos, 3 SF, Rank 2, \$75
 - o Black gasket, 30% asbestos, 1 SF, Rank 2, \$45
 - Yellow paint, 11% lead, Exterior of car assuming 50% damaged, Rank 2, \$6,250
- CNW11111 Abatement Estimate \$12,625
 - o Black Bakelite, 6% asbestos, 0.5 SF, Rank 2, \$125
 - Gray paint, 0.51% lead, interior of car assuming 50% damaged, Rank 2, \$12,500
- D&RGW01489 Abatement Estimate \$2,900
 - White Fiberboard, 60% asbestos, 16 SF, Rank 1, \$400
 - o Green paint, 7% lead, interior of car assuming 10% damaged, Rank 2, \$2,500
- D&RGW01524 Abatement Estimate \$3,400
 - White coating, 6.4% asbestos, 12 SF, Rank 2 \$900
 - White coating, 4.7% asbestos, 50 SF, Rank 2 \$1,250
 - Yellow paint, 12% lead, exterior sides and interior handrails assuming 5% damaged, Rank 2, \$1,250
- FTSX 812– Abatement Estimate \$6,250
 - Yellow paint, 6.8% lead, exterior of car assuming 10% damaged, rank 2 \$2,500



- o Green/Red/Black paint, 0.63% lead, handrails, Rank 2, \$3,750
- MP 13835 Abatement Estimate \$6,300
 - White coating, 10% asbestos, 102 SF, Rank 2, \$2,550
 - o White paint, 2.90% lead, Exterior handrails and roof, Rank 2, \$3,750
- RI 17017 Abatement Estimate \$7,330
 - White window glazing, 1.75% asbestos, 24 LF, Rank 2, \$1,080
 - Yellow paint, 15% lead, exterior ends, Rank 2, \$6,250
- SP 4641 Abatement Estimate \$1,515
 - White window caulk, 10% asbestos, 32 LF, Rank 2, \$1,440
 - o Gray oil tank sealant, 10% asbestos, 1 LF, Rank 1, \$75
- SP 7077 Abatement Estimate \$33,965
 - o Gray Insulation, 40% asbestos, 162 SF, Rank 1, \$2,430
 - White pipe wrap, 30% asbestos, 41 LF, Rank 2, \$1,845
 - Red vinyl flooring, 2.41% asbestos, 40 SF, Rank 1, \$580
 - o Black/gray subflooring, 1.75% asbestos, 40 SF, Rank 1, \$580
 - White insultation, 65% asbestos, 64 SF, Rank 1, \$2,880
 - White exhaust pipe wrap, 30% asbestos, 15 SF, Rank 1, \$675
 - Gray heater block, 10% asbestos, 8 SF, Rank 1, \$600
 - o Beige paint, 1.70% lead, interior walls and ceiling, Rank 1, \$15,625
 - o Red paint, 0.59% lead, interior floors, Rank 1, \$8,750
- SP 7078 Abatement Estimate \$27,480
 - o White/Brown paper insulation, 15% asbestos, 390 SF, Rank 1, \$5,850
 - Gray 9"x9" floor tile and gray leveling compound, 6% asbestos, 100 SF, Rank 1, \$725
 - o Red Cementous flooring, 1.75% asbestos, 810 SF, Rank 2, \$10,935
 - Black fiberboard, 6% asbestos, 6 SF, Rank 1, \$270
 - o Black bakelite, 15% asbestos, 2 SF, Rank 1, \$150
 - Beige pipe wrap, 55% asbestos, 10 LF, Rank 1, \$450
 - o Red/black vinyl flooring, 1.92% asbestos, 100 SF, Rank 1, \$725
 - o Red paint, 0.70% lead, 35 SF, Rank 1, \$875
 - White paint, 0.73% lead, 300 SF, Rank 1, \$7,500

The total estimated costs for rank 1 and 2 abatement costs for these railcars is \$146,323.



Please note for cost saving measures, hazardous materials that are located behind walls and in mechanical systems were priced only to abate the exposed materials and enclose the current openings to these areas. Based on this approach, it is recommended that these mechanical systems (air handling systems) not be used unless full abatement of these materials is conducted. These prices are estimates for budgetary purposes only. For abatement pricing, we recommend that a site visit is conducted to confirm material conditions, locations, and other factors that cannot be accurately assessed through the review of previous inspection reports, regardless of quality.

The pricing listed above includes pre-cleaning of the rail cars, a discount of scale, assuming recommended rank 1 and 2 items will be completed in the same mobilization. These estimates do not include mobilization costs, which would likely be approximately \$1,500.

It is recommended that the above-listed materials are abated prior to the use/occupation of these railcars. For the materials that are ranked as 3 and 4, we recommend an annual visual inspection of these materials by an AHERA certified inspector for material condition changes and hazard analysis. It is estimated that these annual visual inspections will range from \$500 to \$1,000 per rail car annually. If hazardous material conditions degrade over time, additional abatement is likely to be recommended.

B. Recommendations for Change of Use or Future Construction

If ACM are to be removed or disturbed as part of renovation/demolition activities the ACM should be removed under abatement conditions before renovation begins. According to regulations, Wyoming must be notified for all demolitions of all facilities and all asbestos abatement projects that exceed the trigger levels. Whatever is the lesser quantity. The notification requirements apply to both friable and non-friable asbestos materials. Notifications must be postmarked or delivered at least 10 working days before initiating abatement activities.

Friable ACM that is in good condition and is not disturbed does not require additional action. However, if the friable material becomes disturbed, or is in poor condition, then stabilization measures need to be taken.

During renovation activities, the owners and their contractors should ascertain the contents of any new products (obtain Safety Data Sheets) installed in the railcar that would void the accuracy and validity of the previous inspection reports.

Additional bulk samples should be collected from previously concealed materials that may be revealed during demolition activity, or from materials outside the original inspection scope of work. "Suspect" material includes any material serving as a sprayed-on or troweled-on acoustic or fireproofing surface; floor and ceiling tiles; transite panels, siding or shingles; thermal insulation or any material associated with mechanical systems; or any binding agent such as tar sealant, mastic adhesive, roofing tar, caulking, et cetera.



C. Risks for Storage of Rail Cars Exposed to Elements

With very limited human exposure to only the exterior component of the rail cars, there is very little risk of health concerns based on the nature of the hazards present. Issues with lead contamination usually are the result of repeated exposure in the workplace or home. The biggest hazard associated with this type of exposure would be ingestion of lead from touching lead contaminated paint and eating before washing one's hands. It is recommended that anyone that touches lead-contaminated paints thoroughly wash their hands prior to touching anything that they are going to ingest.

There are similar risks associated with public access and/or tourism exposure to only the exterior components of the railcars. Risks associated with lead ingestion are more serious with children under the age of 6 or pregnant women. These risks are minimal given the nature of the amount of exposure, but it would be recommended that those who come into contact with lead-based paints on the railcars wash their hands before eating or drinking to limit the possible ingestion of lead.

Based on the last observed conditions and locations of the exterior asbestos, it is unlikely that these materials will be disturbed by limited exposure or public access/tourism exposure of the exterior of the railcars.

Long term storage of railcars with exterior lead-containing paint that are exposed to the elements is likely to result in lead contamination of the shallow soils immediately surrounding and under the railcars over time. Lead in soil is a particular hazard to young children and it is recommended that this area not be used for prolonged use of children (playground, childcare center or school) in the future, unless soil remediation is conducted. Lead in soils also strongly inhibits seed germination, root elongation, seedling development, plant growth, transpiration, chlorophyll production, and water and protein content.

Soil remediation is likely to include the removal and disposal of the top 6 inches of soil in the railcar storage area. The risk of lead leaching from the exterior paints into the surrounding soils could be mitigated by encapsulating/repainting the cars exteriors with a high quality exterior non-lead-based paint, and maintaining the integrity of this exterior barrier, by repainting as needed. The state of Wyoming's regulations mimic those of the EPA, requiring those who work with lead-based paints to be certified. Regulations around the presence of lead-based paint are mainly applicable to residential buildings and child-occupied facilities such as day care centers and schools.

IV. LIMITATIONS

ESA has endeavored to inspect the existing conditions within the affected areas using AHERA and UPRR inspection protocols. Regardless of the thoroughness of an inspection, it is possible that some areas containing asbestos were overlooked or inaccessible. The original inspection reports present general descriptions of various construction materials and the general locations where these materials



were encountered. If questions arise during the planning for renovation, demolition or other construction, ESA should be notified to permit us to review the situation and present recommendations. Hazardous material quantities in this report represent an approximation based upon conditions and accessibility at the time of the inspection. Asbestos Abatement Contractors bidding on abatement activities shall be responsible for verifying quantities and site conditions prior to submitting bids.

This report has been prepared on behalf of and exclusively for the use of The City of Cheyenne, Wyoming. The conclusions expressed by ESA regarding the conditions of the Site are based solely on the observations made between July 13, and August 20, 2021, the data collected during these inspections and the laboratory results of the samples collected and analyzed. The beneficiaries are hereby advised that conditions observed are subject to change. This report and the findings contained herein shall not, in whole or in part, be disseminated or conveyed to any other party or be used or relied upon by any other party, in whole or in part, without The City of Cheyenne's' or ESA prior written consent.



ATTACHMENT I

HAZARDOUS MATERIALS SUMMARY TABLE



ATTACHMENT II

AHERA ASBESTOS INSPECTOR CERTIFICATION

Hazardous Materials Summary Table Cheyenne, Wyoming 15 UPRR Railcars



Railcar Name/Number	Hazard Type	Material Description	Percent of hazard	Condition	Location	Quantity	Abatement Priority*	Cost Estimate for abatement
	ACM	Black sealant	15	Non-friable	Roof AC and access hatch	36 LF	4	\$ 900.00
•	ACM	Gray sealant	1.71	Non-friable	Roof penetrations	6 SF	4	\$ 150.00
•	ACM	Floor tile	2.41	Non-friable	Throughout	760 SF	1	\$ 7,980.00
•	ACM	Red vinyl flooring	2.45	Non-friable	Exterior deck	40 SF	1	\$ 580.00
	ACM	White pipe wrap	70	Non-friable	Central air system piping	8 LF	2	\$ 360.00
906208	ACM	Old pipe insulation	40	Non-friable	Duct wrap	304 SF 16 SF	3	\$ 7,600.00 \$ 400.00
•	ACM	White pipe wrap	70	Non-friable	Undercarriage	180 LF	3	\$ 8,100.00
	Lead	Beige Paint	1.70	Fair condition Poor Condition	Interior	900 SF 100 SF	3	\$ 7,650.00 \$ 850.00
•	Lead	Silver Paint	0.68	Fair condition	Exterior	1000 SF	4	\$ 8,500.00
	ACM	Gray floor tile	3.32	Non-friable	Floor throughout, except kitchen	460 SF	1	\$ 3,622.50
	ACM	Gray insulation	70	Non-friable	Ceiling throughout	729 SF 81 SF	3	\$ 10,935.00 \$ 1,215.00
	ACM	White Fiberboard	30	Non-friable	Behind Furnace	10 SF	2	\$ 250.00
906200	ACM	Red cementitious	1.75	Non-friable	Floor throughout, except	810 SF	1	\$ 12,150.00
906200	ACN4	flooring Cray scalant	1 67	Non-friable	kitchen Roof penetrations	15 LF	4	\$ 375.00
	ACM ACM	Gray sealant Black Tar	1.67 8	Non-friable	Roof penetrations	15 LF	4	\$ 375.00
•	ACM		70	Non-friable	Undercarriage	160 LF	3	\$ 7,200.00
•	ACIVI	Gray pipe wrap	70	Fair condition	Interior walls	900 SF	3	\$ 7,650.00
	Lead	Beige Paint	2.4	Poor Condition	Interior walls	100 SF	2	\$ 850.00
•	Lead	Silver Paint	5.5	Fair condition	Exterior	100 SF	4	\$ 8,500.00
	ACM	White pipe wrap	90	Non-friable	Interior and underside	222 LF	2	\$ 9,990.00
•	ACM	Black fireboard	40	Non-friable	Interior behind elect. Boxes	10 SF	3	\$ 250.00
•	ACM	Gray Transite	20	Non-friable	Interior loose bracing pieces	3 SF	2	\$ 75.00
UP 928	ACM	Black gasket	30	Friable	Interior pipe connections	1 LF	2	\$ 45.00
01 520	ACM	Gray Coating	10	Non-friable	Roof	620 SF	4	\$ 15,500.00
•	Acivi	Gray coating		Fair condition	Exterior except for back and	250 SF	3	\$ 6,250.00
	Lead	Yellow Paint	11	Poor Condition	roof	250 SF	2	\$ 6,250.00
	ACM	Black Bakelite	6	Non-friable	Breaker box	0.5 SF	3	\$ 125.00
•	Lead	Gray Paint	1.2	Good Condition		1000 SF	4	\$ 25,000.00
CNW11097	Lead	Green/White/Blac k Paint	3.9	Poor Condition	Exterior handrails, steps, roof	500 SF	3	\$ 12,500.00
	Lead	Black Paint	2.1	Good Condition	Exterior undercarriage	350	4	\$ 15,750.00
	ACM	Black Bakelite	6	Non-friable	Breaker box (on floor)	0.5 SF	2	\$ 125.00
•	Lead	Yellow Paint	5.1	Poor Condition	Main Exterior	1000 SF	4	\$ 25,000.00
				Fair condition	Interior throughout	500 SF	3	\$ 12,500.00
CNW11111	Lead	Gray Paint	0.51	Poor Condition	Interior throughout	500 SF	2	\$ 12,500.00
	Lead	Black Paint	0.54	Poor Condition	Exterior undercarriage	250 SF	4	\$ 6,250.00
	ACM	Black Bakelite	15	Non-friable	Breaker box (on wall)	0.5 SF	3	\$ 125.00
CNW11047	Lead	Black Paint	1	Poor Condition	Exterior undercarriage	250 SF	4	\$ 6,250.00
	ACM	Gray/black window caulk	6	Non-friable	Exterior window frames	30 LF	4	\$ 1,350.00
D8 DCW/04 47C	ACM	Black tar	6	Non-friable	Roof penetrations	2 SF	4	\$ 150.00
D&RGW01476	Lead	Orange Paint	6.4	Good Condition	Main Exterior	1000 SF	4	\$ 25,000.00
	Lead	White Paint	3	Poor Condition	Exterior handrails	150 SF	3	\$ 3,750.00
D&RGW01481	ACM	White Sealant	2.85	Non-friable	Roof penetrations	8 LF	4	\$ 360.00
	ACM	Black Bakelite	6	Non-friable	Brakers	0.5 SF	3	\$ 125.00
	Lead	Yellow Paint	7.90	Poor Condition	Exterior upper half	800 SF	4	\$ 20,000.00
-	Lead	Silver Paint	3.90		Exterior handrails and knuckles	150 SF	3	\$ 3,750.00
	ACM	Brown/white Sealant	8	Non-friable	Roof penetrations	8 LF	4	\$ 360.00
D&RGW01486	Lead	Yellow Paint	5.70	Fair condition	Exterior car, upper half	1000 SF	4	\$ 25,000.00
2010101400	Lead	Black Paint	1.90	Poor Condition	Exterior lower half of car and undercarriage	800 SF	4	\$ 20,000.00

Hazardous Materials Summary Table Cheyenne, Wyoming 15 UPRR Railcars



Railcar Name/Number	Hazard Type	Material Description	Percent of hazard	Condition	Location	Quantity	Abatement Priority*	Cost Estin for abaten	
	ACM	Black window	8	Non-friable	Exterior windows	48 LF	4	\$ 2,3	160.00
	ACM	caulk White Fiberboard	60	Friable	Around furnace	16 SF	1	\$ 4	400.00
				Good Condition	Interior	900 SF	4		500.00
D&RGW01489	Lead	Green Paint	7	Poor Condition	Interior	100 SF	2		500.00
	Lead	Old Orange Paint	12	Fair condition	Short sides of car	500 SF	4	\$ 12,	500.00
	Lead	White Paint	7.6	Fair condition	Exterior handrails	150 SF	3		750.00
	Lead	Black Paint	6.6	Poor Condition	Undercarriage	800 SF	4	\$ 20,0	000.00
	ACM	Gray Transite Boards	15	Non-friable	Interior around furnace	24 SF	3	·	600.00
	ACM	Black caulk	2	Non-friable	Exterior windows	36 LF	4		620.00
	ACM	white coating	6.42	Non-friable	Interior, on water tank	12 SF	2		900.00
50.50000000	ACM	Tan Sealant	1.43	Non-friable	Oil fill pipe, interior	1 LF	3	\$	75.00
D&RGW01524	ACM	White Coating	4.7	Non-friable	Exposed in cutout	50 SF	2		250.00
	Lead	Yellow Paint	12	Poor Condition	Interior walls and ceiling Exterior sides & interior handrails	922 SF 50 SF	4 2		050.00 250.00
	Leau	Tellow Pallit	12	Fair condition	Exterior sides & interior handrails	1100 SF	3	\$ 27,!	500.00
	ACM	Gray Transite	15	Non-friable	Interior walls around former furnace	24 SF	3	\$	600.00
	Lead	White Paint	1.6	Fair condition	Interior	1250 SF	3		250.00
FTSX 812	Lead	Yellow Paint	6.8	Fair condition	Exterior	900 SF	3		500.00
	Lead	Green/Red/Black	0.63	Poor Condition Poor Condition	Exterior Handrails	100 SF 150 SF	2		500.00 750.00
	ACM	(layered) white coating	10	Non-friable	Interior wells and soiling	567 SF	3		175.00
	ACM	white coating	10	Non-friable	Interior walls and ceiling Interior water tank	102 SF	2		550.00
	ACM	Gray Transite Boards	15	Non-friable	Interior around furnace	24 SF	3		600.00
	ACM	Gray door sealant	4.8	Non-friable	Interior door frames	34 LF	3	\$ 1,	530.00
MP 13835	ACM	Gray Roof Seam Sealant	10	Non-friable	Exterior roof and wall joint along ends	18 LF	4	\$ 8	810.00
	ACM	Gray window caulk	10	Non-friable	Exterior large windows on pop out	18 LF	4	\$ 1	810.00
	Lead	Red Paint	3.8	Fair condition	Exterior	1000 SF	3		000.00
	Lead	White Paint	2.9	Poor Condition	Exterior handrails and roof	150 SF	2	\$ 3,	750.00
	ACM	White window glazing	1.75	Friable	Exterior windows	24 LF	2		080.00
RI 17017	ACM	Black fire proofing	15	Non-friable	Rail undercarriage	340 SF	4		920.00
	Lead	Green Paint	1.4	Good Condition	Interior	1250 SF	3		250.00
	Lead Lead	Yellow Paint Black Paint	15 3.7	Poor Condition Poor Condition	Exterior Ends Undercarriage	250 SF 350 SF	2	-	250.00 750.00
	ACM	White/Green Coating	10	Non-friable	Water tank, base trim and interior walls	1040 SF	3		720.00
	ACM	White Wall Coating	10	Non-friable	Interior walls and ceiling throughout	972 SF	3	\$ 17,4	496.00
	ACM	White window caulk	10	Non-friable	Interior windows and large side windows	32 LF	2	\$ 1,4	440.00
SP 4641	ACM	Gray door sealant	10	Non-friable	Between door and walls interior	26 LF	3	\$ 1,5	170.00
	ACM	Gray oil tank sealant	10	Friable	Interior oil fill penetration	1 LF	1	\$	75.00
	ACM	White window caulk	10	Non-friable	Exterior retro-fitted windows & Vent	16 LF	4	\$	720.00
	Lead	Orange Paint	6.20	Fair condition	Exterior ends and pop out sides	550 SF	3	\$ 13,	750.00
	Lead	Dark Red Paint	1.60	Fair condition	Exterior, long sides	550 SF	3	\$ 13,	750.00

Hazardous Materials Summary Table

Cheyenne, Wyoming 15 UPRR Railcars



Railcar Name/Number	Hazard Type	Material Description	Percent of hazard	Condition	Location	Quantity	Abatement Priority*		t Estimate abatement
	ACM	Silver/black coating	6	Friable			3	\$	450.00
	ACM	Black tar	8	Non-friable	Exterior roof seams	80 LF	4	\$	3,600.00
	ACM	Gray Insulation	40	Friable	Exposed in cutout	162 SF	1	\$	2,430.00
	ACIVI	Gray insulation	40	TTADIe	Interior walls, ceiling and floor	3078 SF	3	\$	46,170.00
					Exposed in cutout	41 LF	2	\$	1,845.00
	ACM	White pipe wrap	30	Non-friable	Undercarriage and plenum space	369 LF	4	\$	16,605.00
	ACM	Gray sealant	2.2	Non-friable	Undercarriage where pipe removed	2 LF	4	\$	90.00
	ACM	Red vinyl flooring	2.41	Friable	Back deck floor	40 SF	1	\$	580.00
SP 7077	ACM	Black/gray subflooring	1.75	Friable	Back deck floor	40 SF	1	\$	580.00
SP /0//	ACM	Black wall coating	6	Non-friable	Interior A/C area	150 SF	3	\$	3,750.00
	ACM	Black Bakelite	1.59	Non-friable	Front Electric closet	4 SF	3	\$	180.00
	ACM	Gray Fireboard	20	Non-friable	Behind electrical components	8 SF	3	\$	600.00
	ACM	White Insulation	65	Friable	Electric closet walls and door, front end of car	64 SF	1	\$	2,880.00
	ACM	White exhaust pipe wrap	30	Friable	Front furnace exhaust pipe	15 SF	1	\$	675.00
	ACM	Gray heater block	10	Friable	Front Furnace	8 SF	1	\$	600.00
	Lead	Beige paint	1.70	Fair condition Poor Condition	Interior walls and ceilings Interior walls and ceilings	625 SF 625 SF	3	\$ \$	15,625.00 15,625.00
	Lead	Red paint	0.59	Poor Condition	Interior floors	350 SF	1	\$	8,750.00
	Lead	Yellow Paint	4.30	Fair condition	Exterior	550 SF	3	\$	13,750.00
	Lead	Light red paint	4.30	Fair condition	Exterior	550 SF	3	\$	13,750.00
	ACM	Black/Gray sealant	8	Non-friable	Roof seams and penetrations	260 LF	4	\$	11,700.00
	Activi		0	Non mable	Exposed in cutout	390 SF	1	\$	5,850.00
	ACM	White/Brown paper insulation	15	Friable	Walls, floors (base layer) and ceiling throughout	3510 SF	3	\$	52,650.00
	ACM	Gray 9"x9" floor tile and gray leveling compound	6	Friable	Kitchen floor, second highest layer	100 SF	1	\$	725.00
	ACM	Red Cementous flooring	1.75	Non-friable	Interior floor throughout, second lowest layer in Kitchen	810 SF	2	\$	10,935.00
SP 7078	ACM	White Fiberboard	65	Non-friable	Interior electric and boiler components	20 SF	3	\$	500.00
SP 7078	ACM	Black fiberboard	6	Friable	Interior electrical area, behind components	6 SF	1	\$	270.00
	ACM	Black Bakelite	15	Friable	Breaker board	2 SF	1	\$	150.00
	ACM	Beige pipe wrap	55	Friable	Exposed in cutout	10 LF	1	\$	450.00
	ACIVI	perechine migh	33	Trable	Interior A/C and gas lines	10 LF	3	\$	450.00
	ACM	Red/black vinyl flooring	1.92	Friable	Kitchen floor, second highest layer	100 SF	1	\$	725.00
	ACM	White pipe wrap	15	Friable	Undercarriage	80 LF	3	\$	3,600.00
	Lead	Red Paint	0.70	Poor Condition	Interior floors	35 SF	1	\$	875.00
	Lead	Yellow Paint	4.10	Fair condition	Exterior	500 SF	4	\$	12,500.00
	Lead	Light red paint	3.20	Fair condition	Exterior	500 SF	4	\$	12,500.00
	Lead	White Paint	0.73	Poor Condition	Interior kitchen	300 SF	1	\$	7,500.00

Notes & Definitions

ACM = Asbestos Containing Material

This table only includes materials from 2021 inspections that were over the thresholds for asbestos containing materials (1%) and lead based paint (0.5%) Asbestos detections actions are chrysotile asbestos

"Friable asbestos material" means any material containing more than one per cent asbestos by area, as determined using the method specified in 40 CFR Part 763, Subpart E, Appendix E, Section 1 Polarized Light Microscopy (PLM), that, when dry can be crumbled, pulverized, or reduced to powder by hand pressure.

"Nonfriable asbestos-containing material" means any material containing more than one percent asbestos as determined using the method specified in 40 CFR Part 763, Subpart E, Appendix E, Section 1, Polarized Light Microscopy (PLM) that, when dry, cannot be crumbled, pulverized, or reduced to powder by hand pressure.

SF = Square feet

LF = Linear Feet

Some materials have two different abatement priority rankings due to location or condition.

* Abatement Priority Rankings

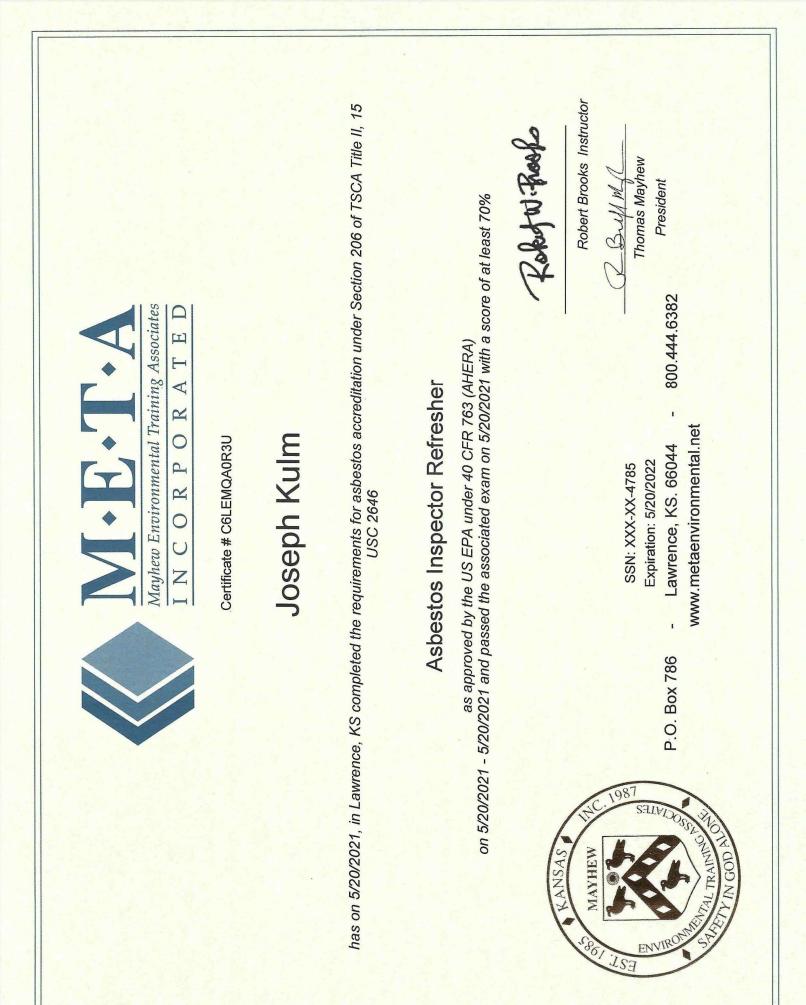
1. First priority for removal, immediate risk to health and the environment.

2. Second priority for removal, very likely to pose health risk to those who enter or work on or around these materials.

3. Third priority for removal, does not currently pose a health risk to those who enter or work around these materials but will likely degrade and need removal in the future, as long as material is not disturbed in the meantime.

4. Fourth priority for removal, does not currently pose a health risk to those who enter or work around these materials and will not likely degrade and need

removal in the foreseeable future, as long as material is not disturbed. Cost Estimates do not include mobilization and assume that all ranking 1 & 2 items will be abated in the same mobilization.





www.esasite.com

Specializing in environmental services and demolition

August 10th, 2021

Union Pacific Railroad Asbestos Program c/o GHD 3807 South 148th Street Omaha, NE 68144

RE: WY, Cheyenne, Rollingstock CNW 11047, Requested NESHAP Inspection Earth Services & Abatement Project Number: 215WY001

To Whom It May Concern,

Please find our NESHAP report for the above-mentioned requested inspection. Earth Services & Abatement's Joseph Kulm inspected UPRR railcar CNW 11047 for suspect asbestos-, lead-, and PCB-containing materials. The inspection work took place on July 15th, 2021.

No previous reports were provided for review prior to inspection.

Refer to the report for a summary of this inspection, including inspection/lab results, inspection photographs, and schematics.

If you have any questions or need anything else for this project, please do not hesitate to contact us.

Conducted by,

Jospeh Kulm Inspector Earth Services & Abatement

Reviewed by,

Syplie

Robert Szynskie Program Director Earth Services & Abatement Robert.szynskie@esasite.com Cell – 720-206-9238

\bigcap		R	Colling Stock	Asbe	estos I	[nspe	ection	Report			
	WW						Inspec	ction Start Date	07/15/2021		
	BUILDING AMERICA ^{**} Inspection Type						Inspec	ction End Date	07/15/2021	—	
	X Initial Inspection		Reinspection	X NE	SHAP Ins	pection	Repor	t Date	08/10/2021	_	
	Inspection Comp	-									
	Company Earth S	ervice	es & Abatement		License	No	16608				
	Address 6700 E 50)th Av	e		City	Comm	erce City				
					State	СО	Z	lip 80022			
	Inspector Informa	ition									
	First Name Joseph			Las	t Name	Kulm					
	License TypeAHE	RA	License No.	C6LEMQ	A0R3U		Lice	nse State	_		
	Asset Information	n									
	Rolling Stock Type	Cab	oose								
	Rolling Stock No	CN	V 11047		Car Name		CNW 1				
	Yard Name	Che	yenne		Subdivision		Unknow				
	Address	Eas	t Union Pacific Ave.		Mile Post			'n			
	City	Che	yenne		Latitude		41.1299	931°			
	State	WY			Longitude -104.81491			4911°	.911°		
	Zip Code	820	09								
	Key Contacts										
	Name		Phone Number	Comp	any			Role/Responsibilit	ty		
	Kulm,Joseph		303-991-1280	Earth	Earth Services & Abateme			ent Inspector			
	Szynskie,Robert		303-991-1280	Earth	Services & Abateme		ment Program Director				
	Dickens,Edgar		307-214-3545	UPRF	UPRR			Local Contact			
	Inspection Limita	tions	5	,							
	was limited by the u	se of l ble. If a	ade to conduct a com hand-tools and some additional suspect ma be required.	additiona	al suspect	materia	ls may be	e present in areas n	ot		

Rolling Stock Type							08/10/2021 Caboose	
AMERICA ^{**}				Rollin	g Stock No	CNW 1104	-/	
estos Results resent ¹ Yes	Total Number	of ACM Components. ¹ 1						
umber of Materials Containin	g <= 1% Asbestos.	0						
]	
Asbestos Sam	ples							
Sample ID	Description	Location	Asbestos Result ²	ACM Category	Friable	Quantity	Modified Algorithm Number	
CHE-CNW11047-150721 -001 thru 003	Off-white sealant	Interior trim throughout	Not Detected	N/A	N/A	200 LF	N/A	
CHE-CNW11047-150721 -004 thru 006	Yellow mastic	Interior wall and floor boards	Not Detected	N/A	N/A	1100 sq. ft.	N/A	
CHE-CNW11047-150721 -007 thru 009	Black bakelite	Breakers	15%, Chrysotile	Category II	No	0.5 sq. ft.	3	
CHE-CNW11047-150721 -010 thru 012	Black brake pads	Exterior wheels	Not Detected	N/A	N/A	4 sq. ft.	N/A	
CHE-CNW11047-150721 -013 thru 015	Gray caulk	Door seams	Not Detected	N/A	N/A	45 LF	N/A	
	AMERICA ^{**} estos Results esent ¹ Yes umber of Materials Containin ease note the material descr tails. The panel identified in Asbestos Sam Sample ID CHE-CNW11047-150721 -001 thru 003 CHE-CNW11047-150721 -007 thru 009 CHE-CNW11047-150721 -010 thru 012 CHE-CNW11047-150721	Sample ID Description CHE-CNW11047-150721 Off-white sealant CHE-CNW11047-150721 Black bakelite CHE-CNW11047-150721 Black bakelite	Rolling Stock Asbestos Inspect AMERICA" estos Results esent ¹ Yes Total Number of ACM Components. ¹ 1 umber of Materials Containing <= 1% Asbestos. 0 output ease note the material descriptions herein are more descriptive than that on the chain-tails. The panel identified in samples CHE-CNW11047-150721-004 thru 006 is not control Asbestos Samples Sample ID Description Location CHE-CNW11047-150721 Off-white sealant Interior trim throughout OHE-CNW11047-150721 Yellow mastic Interior wall and floor boards CHE-CNW11047-150721 Black bakelite Breakers CHE-CNW11047-150721 Black brake pads Exterior wheels CHE-CNW11047-150721 -010 thru 012 Black brake pads Exterior wheels	Rolling Stock Asbestos Inspection Rep AMERICA" estos Results esent1 Yes Total Number of ACM Components.1 1 umber of Materials Containing <= 1% Asbestos.	Rolling Stock Asbestos Inspection Report Reling stock Asbestos Inspection Report Rolling Stock Results esent' Yes Total Number of ACM Components.' 1 Imper of Materials Containing <= 1% Asbestos. 0 Operation Interior Stock Components.' 1 Imper of Materials Containing <= 1% Asbestos. 0 Colspan="2">Colspan="2">Colspan="2">Colspan="2">Asbestos Samples CHE-CNW11047-150721-004 thru 006 is not considered a suspect material Asbestos Samples Sample ID Description Accation Asbestos ACM CHE-CNW11047-150721 Off-white sealant Interior trim throughout Not CHE-CNW11047-150721 Off-white sealant Interior wall and floor boards Detected N/A CHE-CNW11047-150721 Sample ID Detected Not Off-white sealant	Rolling Stock Asbestos Inspection Report Date Rolling Stock Type Rolling Stock Asbestos Inspection Report Date Rolling Stock Type Rolling Stock Type Rolling Stock No Stos Results esent' Yes Total Number of ACM Components.' 1 Imber of Materials Containing <= 1% Asbestos. 0	Rolling Stock Asbestos Inspection Report Report Date 08/10/2021 AMERICA" Report Date 08/10/2021 Stock Asbestos Inspection Report Report Date 08/10/2021 Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2" Stock Results Sease note the material descriptions herein are more descriptive than that on the chain-of-custody in order to provide distinguishing material Asbestos Samples Sample ID Description Location Asbestos ACM Quantity CHE-CNW11047-150721 Of	

1 "ACM Present" is defined as material with >1% asbestos, except in California, where Asbestos-Containing Construction Material (ACCM) is defined as >0.1% asbestos.

2 For samples collected in sets, only the highest result is reported. Some of the collected samples may not have been analyzed. See the attached laboratory report for additional details.

3 "Lead Present" and "Positive" is defined as paint with $\geq 0.5\%$ lead.

4 "PCBs Present" and "Positive" is defined as caulk with \geq 50 ppm PCBs.

BUILDING AM	Rol	lling St	ock Asbestos Insp	pection	Report Report Report	•••••••••••••••••••••••••••••••••••••••	08/10/20 Caboose CNW 110)
Lead-Ba Lead Prese Notes	a sed Paint Results ent ³ Yes T	Total Number	r of Positive Components. ³	1				
	Paint Samples	i						
Sample Date	e Sample ID		Description		Location		ead esult	Condition
07/15/2021	CHE-CNW11047-150721-0	001L	Gray		Interior throughout	0.42 %	%	Poor
07/15/2021	CHE-CNW11047-150721-0	002L	Yellow		Exterior car	0.45 %		Good
07/15/2021	CHE-CNW11047-150721-0	003L	White		Handrails and steps	0.38 %	%	Fair
07/15/2021	CHE-CNW11047-150721-0	004L	Black		Exterior undercarriage 1 %			Poor
Polychl PCBs Prese Notes			r of Positive Components. ⁴	0				
	PCBs Samples							
Sample Date	Sample ID		Description	Loca	cation		PCBs Result	Quantity
7/15/2021	CHE-CNW11047-150721-001 P	Gray caul	k	Door	or seams		Not Detected	45 LF
2 For samples colle	s defined as material with >1% asbestos, exc ected in sets, only the highest result is report and "Positive" is defined as paint with $\ge 0.5\%$	rted. Some of the					ional details.	

4 "PCBs Present" and "Positive" is defined as caulk with ≥50 ppm PCBs.

UNION PACIFIC	Rolling Stock Asbestos Inspection Report	Report Date	08/10/2021	
	Roll	ling Stock Type	Caboose	
	R	olling Stock No	CNW 11047	
Mold Results				
Suspect Mold Present	No			
Notes				1

1 "ACM Present" is defined as material with >1% asbestos, except in California, where Asbestos-Containing Construction Material (ACCM) is defined as >0.1% asbestos.

2 For samples collected in sets, only the highest result is reported. Some of the collected samples may not have been analyzed. See the attached laboratory report for additional details.

3 "Lead Present" and "Positive" is defined as paint with $\geq 0.5\%$ lead.

4 "PCBs Present" and "Positive" is defined as caulk with \geq 50 ppm PCBs.



BUILDING AMERICA



Railcar ID Marking



View of car, looking north

Rolling Stock Type Caboose

Rolling Stock No CNW 11047



View of car, looking west-northwest



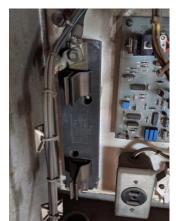
BUILDING AMERICA**



CHE-CNW11047-150721-001 thru 003, Asbestos Not Detected, Off-white sealant



CHE-CNW11047-150721-004 thru 006, Asbestos Not Detected, Yellow mastic



CHE-CNW11047-150721-007 thru 009, 15% Asbestos, Black bakelite

Rolling Stock Type

Caboose

Rolling Stock No CNW 11047



CHE-CNW11047-150721-001 thru 003, Asbestos Not Detected, Off-white sealant



CHE-CNW11047-150721-004 thru 006, Asbestos Not Detected, Yellow mastic



CHE-CNW11047-150721-007 thru 009, 15% Asbestos, Black bakelite



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CHE-CNW11047-150721-010 thru 012, Asbestos Not Detected, Black brake pads



CHE-CNW11047-150721-013 thru 015, Asbestos Not Detected, Gray caulk



CHE-CNW11047-150721-001L, 0.42% Lead, Gray

Rolling Stock Type

Caboose

Rolling Stock No CNW 11047



CHE-CNW11047-150721-010 thru 012, Asbestos Not Detected, Black brake pads



CHE-CNW11047-150721-013 thru 015, Asbestos Not Detected, Gray caulk



CHE-CNW11047-150721-001L, 0.42% Lead, Gray



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CHE-CNW11047-150721-002L, 0.45% Lead, Yellow



CHE-CNW11047-150721-003L, 0.38% Lead, White



CHE-CNW11047-150721-004L, 1% Lead, Black

Rolling Stock Type

Caboose

Rolling Stock No CNW 11047



CHE-CNW11047-150721-002L, 0.45% Lead, Yellow



CHE-CNW11047-150721-003L, 0.38% Lead, White



CHE-CNW11047-150721-004L, 1% Lead, Black



BUILDING AMERICA"



CHE-CNW11047-150721-001P, PCB Not Detected, Gray caulk

Rolling Stock Type

Caboose

Rolling Stock No CNW 11047

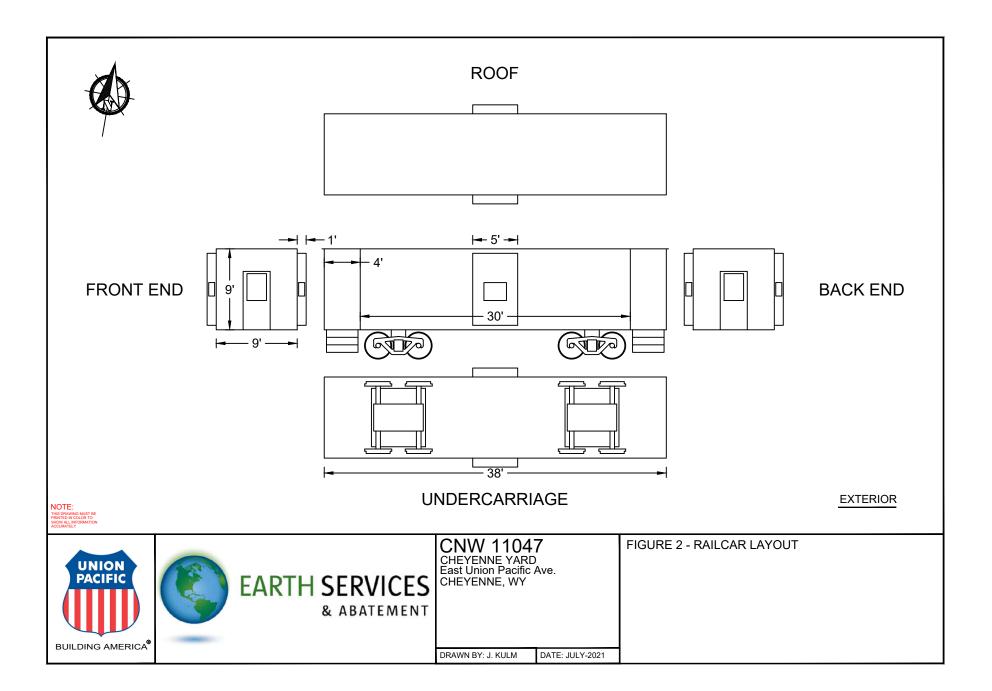


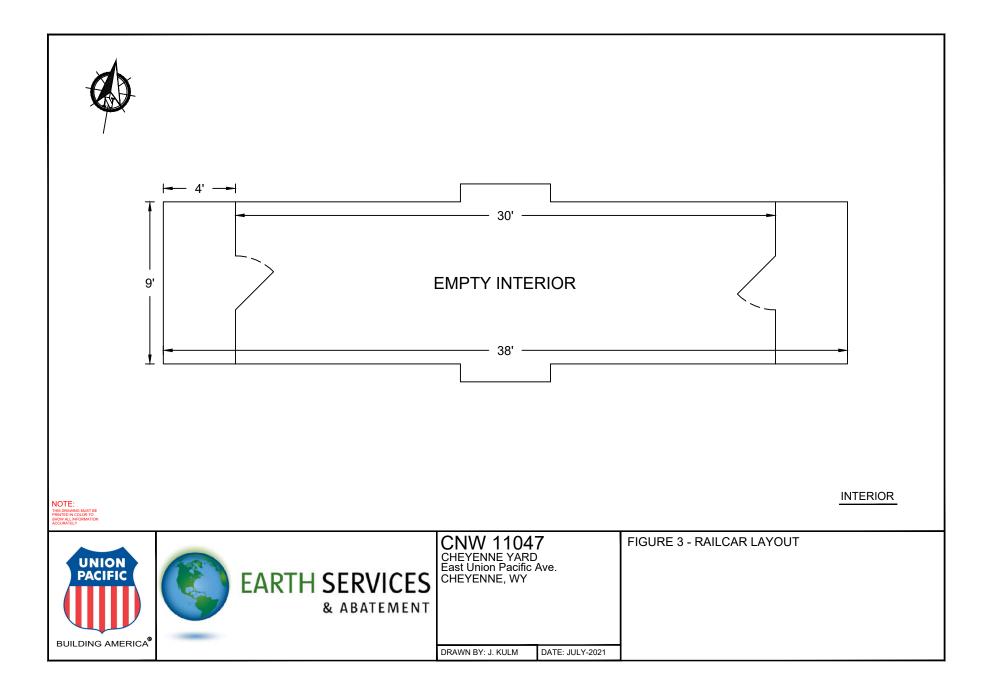
CHE-CNW11047-150721-001P, PCB Not Detected, Gray caulk

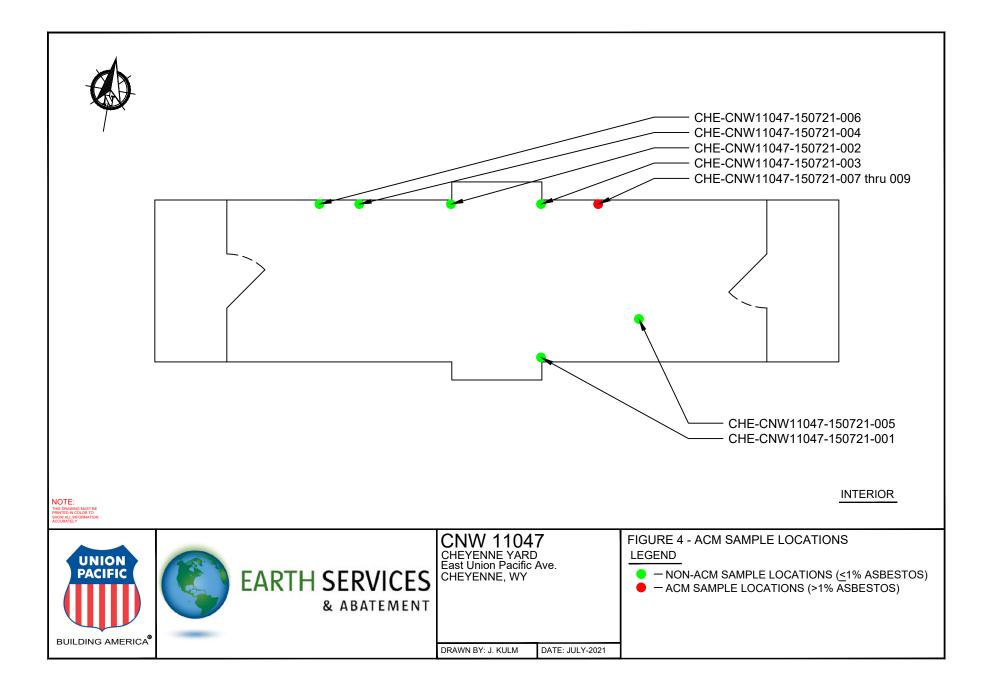
Appendix 1 - Figures

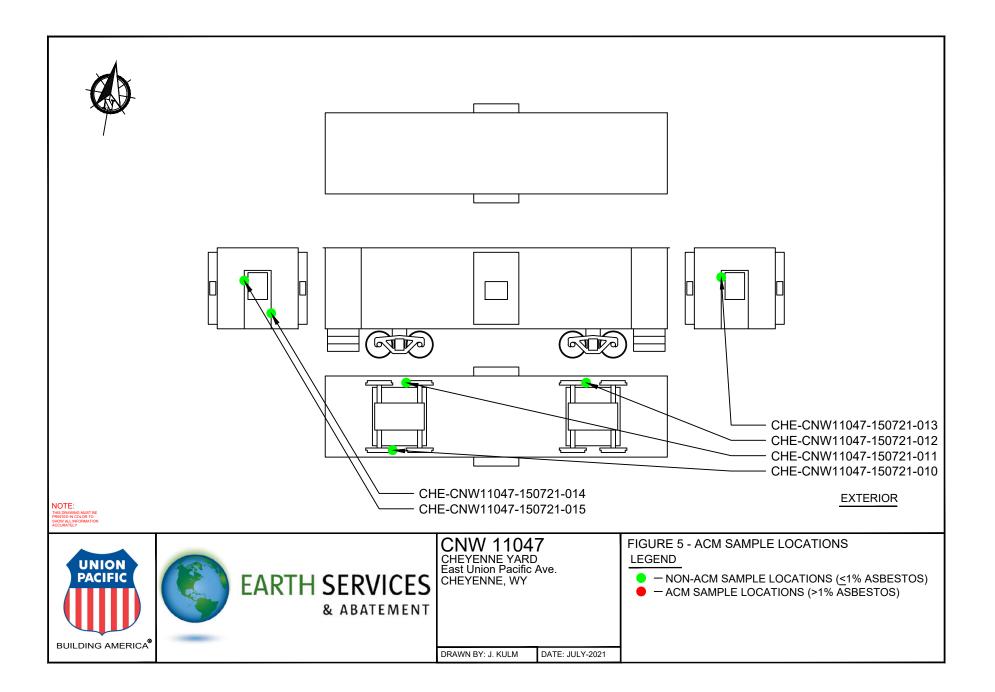
Report Date08/10/2021Rolling Stock TypeCabooseRolling Stock NoCNW 11047

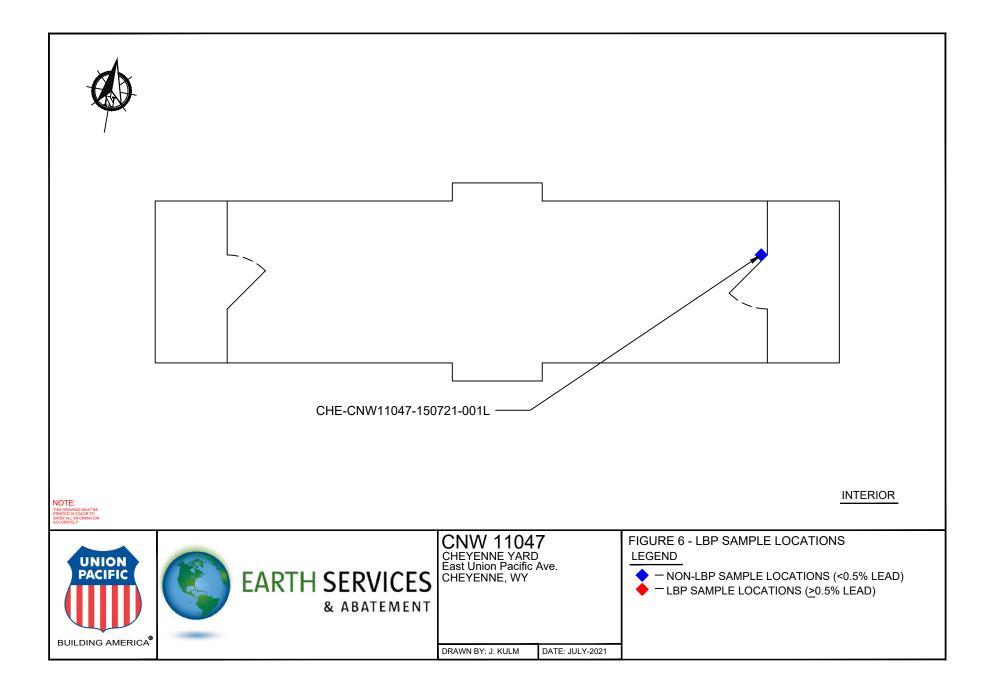


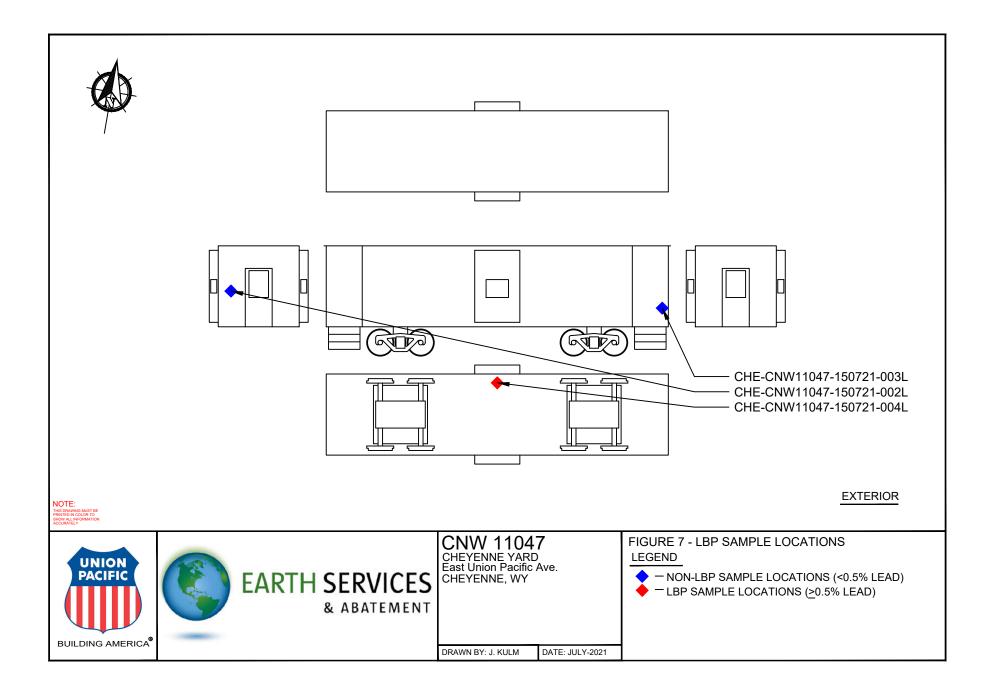


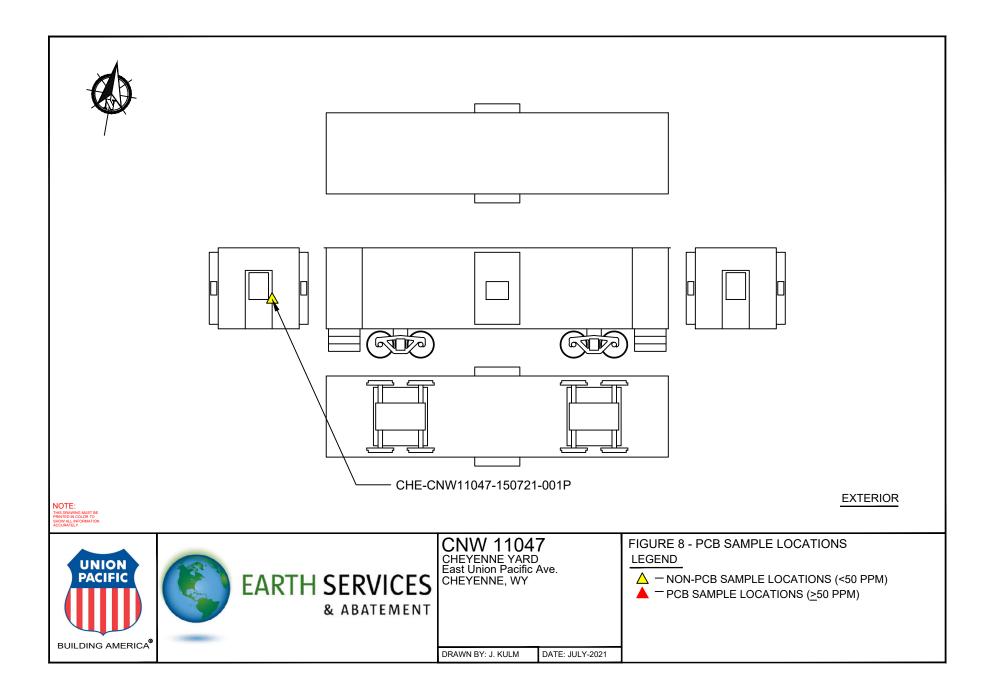


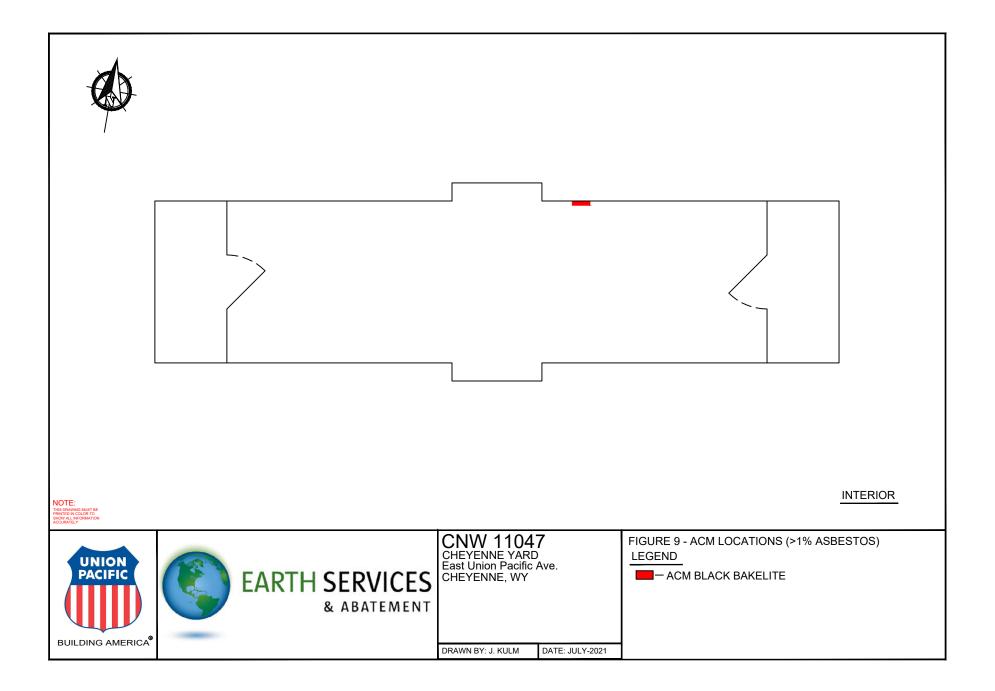












Appendix 2 - Lab Reports and Chain of Custody Receipts

Report Date	08/10/2021
Rolling Stock Type	Caboose
Rolling Stock No	CNW 11047

Eurofins J3 Resources, Inc.

3113 Red Bluff Road, Pasadena, TX 77503 Phone: (713) 290-0223 - Fax: (713) 290-0248 *J3Resources.com*





Bulk Asbestos Fiber Analysis by Polarized Light Microscopy (PLM) Appx E Sub E 40 CFR 763 / EPA 600/R-93/116

Joseph Kulm Earth Services & Abatement, Inc. 6700 E. 50th Avenue Commerce City CO 80022

Jose Sequera

Analyst

NVLAP Lab Code: 600120-0

 Order #:
 JH21129239

 Project #:
 215WY001

 Date Received:
 20-Jul-2021

 Date Analyzed:
 22-Jul-2021

 Date Reported:
 23-Jul-2021

CNW 11047 WY Rollingstock Inspections

Sample ID #	Sample Description	Asbestos Constituents	Non-Asbestos Constituents	
CHE-CNW11047- 150721-001	Sealant, Off White, Homogeneous	None Detected	Non-Fibrous Material	100%
CHE-CNW11047- 150721-002	Sealant, Off White, Homogeneous	None Detected	Non-Fibrous Material	100%
CHE-CNW11047- 150721-003	Sealant, Off White, Homogeneous	None Detected	Non-Fibrous Material	100%
CHE-CNW11047- 150721-004	LAYER 1 Panel, Gray/ Brown, Homogeneous	None Detected	Cellulose Fiber Non-Fibrous Material	45% 55%
	LAYER 2 Mastic, Yellow, Homogeneous	None Detected	Non-Fibrous Material	100%
CHE-CNW11047- 150721-005	LAYER 1 Panel, Gray/ Brown, Homogeneous	None Detected	Cellulose Fiber Non-Fibrous Material	45% 55%
	LAYER 2 Mastic, Yellow, Homogeneous	None Detected	Non-Fibrous Material	100%
CHE-CNW11047- 150721-006	LAYER 1 Panel, Gray/ Brown, Homogeneous	None Detected	Cellulose Fiber Non-Fibrous Material	45% 55%
	LAYER 2 Mastic, Yellow, Homogeneous	None Detected	Non-Fibrous Material	100%
CHE-CNW11047- 150721-007	Bakelite, Black, Homogeneous	Chrysotile 15%	Non-Fibrous Material	85%
CHE-CNW11047- 150721-008	Bakelite, *Not analyzed per client request			
CHE-CNW11047- 150721-009	Bakelite, *Not analyzed per client request			

Scott Ward, Ph.D. Lab Director

TDSHS License: 30-0457

Page 1 of 2

These results apply to the sample(s) as received. This report is for the exclusive use of the addressed client and shall not be reproduced except in full, without written approval by Eurofins J3 Resources, Inc. (EJ3). Samples are analyzed according to the methods listed above and are subject to the inherent limitations of PLM and interference of matrix components. Reporting limit for the above method is a function of the quantity of sample analyzed, matrix interference, sample preparation, fiber size, and distribution. Asbestos may be detected in concentrations of <1% by area if sufficient material is analyzed. EJ3 recommends TEM confirmation of soils, verniculite and non-friable organically bound materials (NOB) reported as None Detected or < 1% Asbestos by PLM. All samples received in good condition unless otherwise noted. This report shall not be used to claim product approval, certification, or endorsement by NVLAP, NIST, or any agency of the federal government.

AIHA-LAP, LLC Lab ID: 157714

Eurofins J3 Resources, Inc.

3113 Red Bluff Road, Pasadena, TX 77503 Phone: (713) 290-0223 - Fax: (713) 290-0248 *J3Resources.com*





Bulk Asbestos Fiber Analysis by Polarized Light Microscopy (PLM) Appx E Sub E 40 CFR 763 / EPA 600/R-93/116

Joseph Kulm Earth Services & Abatement, Inc. 6700 E. 50th Avenue Commerce City CO 80022
 Order #:
 JH21129239

 Project #:
 215WY001

 Date Received:
 20-Jul-2021

 Date Analyzed:
 22-Jul-2021

 Date Reported:
 23-Jul-2021

CNW 11047 WY Rollingstock Inspections

Sample ID #	Sample Description	Asbestos Constituents	Non-Asbestos Constituents	
CHE-CNW11047- 150721-010	Brakes, Black, Homogeneous	None Detected	Non-Fibrous Material	100%
CHE-CNW11047- 150721-011	Brakes, Black, Homogeneous	None Detected	Non-Fibrous Material	100%
CHE-CNW11047- 150721-012	Brakes, Black, Homogeneous	None Detected	Non-Fibrous Material	100%
CHE-CNW11047- 150721-013	Caulking, Gray/ Dk. Brown, Homogeneous	None Detected	Non-Fibrous Material	100%
CHE-CNW11047- 150721-014	Caulking, Gray/ Dk. Brown, Homogeneous	None Detected	Non-Fibrous Material	100%
CHE-CNW11047- 150721-015	Caulking, Gray/ Dk. Brown, Homogeneous	None Detected	Non-Fibrous Material	100%

Scott Ward, Ph.D. Lab Director

Jose Sequera

Analyst

These results apply to the sample(s) as received. This report is for the exclusive use of the addressed client and shall not be reproduced except in full, without written approval by Eurofins J3 Resources, Inc. (EJ3). Samples are analyzed according to the methods listed above and are subject to the inherent limitations of PLM and interference of matrix components. Reporting limit for the above method is a function of the quantity of sample analyzed, matrix interference, sample preparation, fiber size, and distribution. Asbestos may be detected in concentrations of <1% by area if sufficient material is analyzed. EJ3 recommends TEM confirmation of soils, verniculite and non-friable organically bound materials (NOB) reported as None Detected or < 1% Asbestos by PLM. All samples received in good condition unless otherwise noted. This report shall not be used to claim product approval, certification, or endorsement by NVLAP, NIST, or any agency of the federal government.

NVLAP Lab Code: 600120-0 AIHA-LAP, LLC Lab ID: 157714 TDSHS License: 30-0457 Page 2 of 2

Revision #v7/MF Revision Date: 3/09/2020

J3 Order # Lab Juse Order

🔅 eurofins

J3 Resources

🗌 Open I	Lab	Fee
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· · · · · · · · · · · · · · · · · · ·				10							
Submitter Name:	Joseph Kulm				Bill to:	Same					
Company:	Earth Servic	es & A	batement, lic		Address	:					
Address:	6700 E 50th /	Ave									
					City/Stat	e:		Zip:			
City/State: Con	nmerce City , (00	Zip: ⁸⁰⁰²	2	1	15WY001					
			1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.		nformat	lon		· · · · ·			
Project Name: _{WY F}	Rolling s tock In	spectio	ons		Proje	ct Manager: Ama	anda Woza	ıb			
Project #: 215WY00	01 - CNW 110	47			Telep	hone – Office/Ce	II 402-578	-6858			
Reports - Email Add	ress: amanda	.woza	b@esasite.com	, joseph	n.kulm@es	asite.com, robert	.szynskie@	Desas	ite.com		
Invoice - Email Addr	ess: same				Noti	fication By: Em	ail: 🗖	Verba	al: 🛛		
Special Instructions:	400 point-cou	unt sar	nples with detec	ctions u	p to 5% as	bestos with GR,	as needed		· · · · · · · · · · · · · · · · · · ·		
		- 	Turnaround	Times	- Pleas	e Select One					
Emergency*	0 1	Day		2 Day		3 Day			5 Day 🛛		
				ASB	ESTOS		n san Na san s				
PLM - Bulk	PCM -	Air	TEM - Air	TEN	1 - Bulk	TEM - Water	TEM - D	Dust	TEM/PLM Soil/Vermiculite/Ore		
O 400 Point Count 0.25	PA 600/R-93/116 O NIOSH 7400 O AHERA O Gravination (<1%)					 ○ EPA 100.2 Drinking Water >10 µm fibers ≥ 0.5 µm fibers ○ EPA 100.2 Effluent / WW Received on ice: ○ Yes ○ No Temp: 	 ASTM D Microvad ASTM D Wipe 600/J-93 Carpet - I Bulk Dus Qualitativ 	6480 6480 EPA st	 ASTM 7521-TEM (+/-) ASTM 7521-TEM (<1%) CARB 435-Modified Soil – PLM Only (+/-) Vermiculite - TEM (+/-) Vermiculite-Cincinnati Erionite ID 		
			METALS	· · ·			SIL	ICA/	PARTICULATES		
Flame A	A	Gr	aphite Furnace /	AA -	·	ICP	X-Ra	y Diffi	raction / Gravimetric		
LEAD Lead in Paint – SW846 7420/3050B O Drinking Water – EPA 200.9 O Lead in Air – NIOSH 7082 O Wastewater – SW846-7421 O Lead in Wipes – SW846 7420/3050B O Soil/Sludge – SW846-7421 O Lead in Soil – SW846 7420/3050B O Air – NIOSH 7105 O TCLP – SW846-1311/6010B O Air – NIOSH 7105					O Elements in Air – NIOSH 7300 Wipe/Soil – SW846-6010B Effluent – SW846-6010B Welding Fume – NIOSH 7300M Welding Fume – NIOSH 7300M NIOSH 0500 – Total Particulates NIOSH 0600 – Respirable Particulates						
Total Number of	Samples S	Subm	itted: 15		Positive	e Stop: 🔳	YES		NO		
		<u>~</u>	21	Sign	atures						
	1 10.0	•	X /			Date	»: <u>7/19</u>	1	Time:		
Relinquished By:	$-\underline{\mathcal{O}}_{n_{A}}$	-H	ų.	4							
Relinquished By: Received By:		J	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	(<u>n.</u>	Date	»: <u>7/70</u>	121	Time: 1 <u>0:30</u>		
		-0'		(γ.	Date	<u></u>		Time: 1 <u>0:20</u> Time: Time:		

Eurofins J3 Resources, Inc. + 6110 West 34th Street + Houston, Texas 77092 + tel: 713-290-0221 + fax: 713-290-0248

Eurofins J3 Resources, Inc. + 3113 Red Bluff Road + Pasadena, Texas 77503 + tel: 713-290-0223 + fax: 713-290-0248

🔹 eurofins

Project Name WY Rollingstock Inspections

Project Number 215WY001 - CNH

SAMPLE IDENTIFICATION

Page ____ of ____

SAMPLE NUMBER	SAMPLE LOCATION / MATERIAL	VOLUME/CONDITION
CHE-CNW11047-150721-001	White sealant	
CHE-CNW11047-150721-002	Int. trim throughout	
CHE-CNW11047-150721-003		
CHE-CNW11047-150721-004	Yellow mastic	
CHE-CNW11047-150721-005	Int. walls and floorboards	
CHE-CNW11047-150721-006		
CHE-CNW11047-150721-007	Black bakelite	
CHE-CNW11047-150721-008	Int. electrical box	
CHE-CNW11047-150721-009		
CHE-CNW11047-150721-010	Brakes	
CHE-CNW11047-150721-011	Ext. car wheels	
CHE-CNW11047-150721-012		
CHE-CNW11047-150721-013	Gray caulking	
CHE-CNW11047-150721-014	Door seam	
CHE-CNW11047-150721-015		
Comments/Special Instructions:		

Eurofins J3 Resources, Inc. + 6110 West 34th Street + Houston, Texas 77092 + tel: 713-290-0221 + fax: 713-290-0248 Eurofins J3 Resources, Inc. + 3113 Red Bluff Road + Pasadena, Texas 77503 + tel: 713-290-0223 + fax: 713-290-0248

J3 Resources

Eurofins J3 Resources, Inc.

3113 Red Bluff Road Pasadena, Texas 77503 Phone: (713) 290-0223 – Fax: (832) 831-5669 j3resources.com

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J3 Resources

<u>Lead in Paint Performed by</u> Flame AA – USEPA SW846 7420/3050B (Mod.)

Amanda Wozab Earth Services & Abatement, Inc. 6700 E. 50th Avenue Commerce City, CO 80022

 Order #:
 JP211028594

 Inc.
 Project #:
 215WY001

 Receipt Date:
 21-Jul-2021

 Analysis Date:
 22-Jul-2021

 Report Date:
 23-Jul-2021

 WY Rollingstock Inspections-CNW 11047
 Image: Comparison of C

LEAD LEAD SAMPLE PAINT **CONCENTRATION CONCENTRATION** ID **COLOR** (mg/kg) (%) CHE-CNW11047-150721-001L 4200 0.42% Gray CHE-CNW11047-150721-002L Yellow 4500 0.45% CHE-CNW11047-150721-003L White 3800 0.38% CHE-CNW11047-150721-004L 10000 Black 1%

Reporting Limit = 50.0 mg/kg N/A = Not Applicable INS = Insufficient Sample Weight NS = Not Submitted

Analyst: Shervin Aghaabbasi

Scott Ward, Ph.D. Lab Director

This report relates only to the samples submitted. The analysis has been conducted according to the method(s) listed above. Blank corrections are not applied to data unless requested by the customer. This report is for the exclusive use of the addressed customer and shall not be reproduced except in full without written approval by Eurofins J3 Resources, Inc. (EJ3). EJ3 is an EPA NLLAP recognized lab by the AIHA-LAP, LLC ELLAP (Lab ID: 157714). Unless otherwise noted, all quality control samples performed within specifications established by the laboratory. The estimated accuracy is solely based on recovery data from internal laboratory control samples at the 95% confidence interval of the level of concern, derived from a 287 mg/kg lead in paint matrix reference material. The estimated accuracy does not account for uncertainty associated with the sampling process. Accuracy = +/-9%

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28594

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J3 Resources

🗋 Open Lab Fee

Submitter Name: Joseph	n Kulm	·		Bill to:	Same			
Company: Earth	Services & A	Abatement, Ilc	· · ·	Address:				
Address: 6700 E	50th Ave							
				City/State);		Zip:	
City/State: Commerce	City , CO	Zip: ⁸⁰⁰²	2		15WY001			
		the second se	And the second second	nformati	on			
Project Name: WY Rollingst	tock Inspect	ions		Projec	ct Manager: Ama	anda Woza	ab	
Project #: 215WY001 - CN	W 11047			Telep	hone – Office/Ce	ell 402-578	3-6858	3
Reports - Email Address: ai	manda.woza	b@esasite.com,	joseph	n.kulm@es	asite.com, rober	.szynskie(@esas	site.com
Invoice - Email Address: sa	ame			Noti	ication By: En	nail: 🔳	Verb	al: 🗖
Special Instructions:			-					
		Turnaround	Times	s — Pleas	e Select One			
Emergency*	1 Day		2 Day	7 🗖	3 Day			5 Day 🛛
			ASB	ESTOS				
PLM - Bulk	PCM - Air	TEM - Air	TEN	I - Bulk	TEM - Water	TEM - D	Dust	TEM/PLM Soil/Vermiculite/Ore
EPA 600/R-93/116 0 N O Visual Estimation (<1%) 0 A O 400 Point Count 0.25% 0 I O 1,000 Point Count 0.1% 0 C O Gravimetric Reduction Matrix Reduction (+/-) NIOSH 9002 O OSHA ID-191 I I	 ○ AHERA ○ NIOSH 7402 ○ ASTM D6281 ○ ISO 10312 ○ ISO 13794 	O Matri Redu O Qual	uction (<1%) ix uction (+/-) litative (+/-) op Mount	 ○ EPA 100.2 Drinking Water >10 µm fibers ≥0.5 µm fibers ○ EPA 100.2 Effluent / WW Received on ice: ○ Yes ○ No Temp: 	 ASTM E Microva ASTM E Wipe 600/J-9: Carpet - Bulk Du Qualitati 	c 06480 3/167 EPA st	 ASTM 7521-TEM (+/-) ASTM 7521-TEM (<1%) CARB 435-Modified Soil – PLM Only (+/-) Vermiculite - TEM (+/-) Vermiculite-Cincinnati Erionite ID 	
		METALS				SIL	ICA/	PARTICULATES
Flame AA	G	iraphite Furnace	AA -		ICP	X-Ra	ay Diff	raction / Gravimetric
© Lead in Paint - SW846 7420/30 O Lead in Air - NIOSH 7082 O Lead in Wipes - SW846 7420/3 O Lead in Soil - SW846 7420/305 O TCLP - SW846-1311/6010B	200.9 7421 7421	 C Elements in Air – NIOSH 7300 Wipe/Soil – SW846-6010B C Effluent – SW848-6010B Welding Fume – NIOSH 7300M C NIOSH 0500 – Total Particulates C NIOSH 0800 – Respirable Particulates 						
Total Number of Sam	ples Subr	nitted: 4		Positive	e Stop:	YES	▣	NO
($\overline{)}$	an	Sign	natures				
Relinquished By:	#1)" g	K		m	Dat	-7/11	5	Time:
Received By:	<u> </u>			6 () V .	Dat	- =	11	Time: (0:30_
Relinquished By:					Dat			Time:
Received By:					Dat			Time:

Eurofins J3 Resources, Inc. + 6110 West 34th Street + Houston, Texas 77092 + tel: 713-290-0221 + fax: 713-290-0248

Page ____ of __

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Project Name WY Rollingstock Inspections

Project Number 215WY001 - CNM

SAMPLE IDENTIFICATION

Page ____ of ____

J3 Resources

SAMPLE NUMBER	SAMPLE LOCATION / MATERIAL	VOLUME/CONDITION
CHE-CNW11047-150721-001L	Gray	
	Int.	
CHE-CNW11047-150721-002L	Yellow	
	Ext.	
CHE-CNW11047-150721-003L	White	
	Handrails	
CHE-CNW11047-150721-004L	Black	
	Undercarriage	
		· · · · · · · · · · · · · · · · · · ·
	·	
		·
Comments/Special Instructions:		

Eurofins J3 Resources, Inc. • 6110 West 34th Street • Houston, Texas 77092 • tel: 713-290-0221 • fax: 713-290-0248 Eurofins J3 Resources, Inc. • 3113 Red Bluff Road • Pasadena, Texas 77503 • tel: 713-290-0223 • fax: 713-290-0248 LIMS Version: 7.020

Monday, August 09, 2021

Amanda Wozab Earth Services & Abatement 6700 E. 50th Ave. Commerce City, CO 80022

Re: ALS Workorder: 2107407 Project Name: Cheyenne RS Project Number: 215WY001

Dear Ms. Wozab:

One solid sample was received from Earth Services & Abatement, on 7/21/2021. The sample was scheduled for the following analysis:

PCBs

The results for these analyses are contained in the enclosed reports.

The data contained in the following report have been reviewed and approved by the personnel listed below. In addition, ALS certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental.

Thank you for your confidence in ALS Environmental. Should you have any questions, please call.

Sincerely,

M. N

ALS Environmental Katie M. OBrien Project Manager

ADDRESS 225 Commerce Drive, Fort Collins, Colorado, USA 80524 | PHONE +1 970 490 1511 | FAX +1 970 490 1522 ALS GROUP USA, CORP. Part of the ALS Laboratory Group An ALS Limited Company



2107407

PCB:

The sample was analyzed using GC/ECD (electron capture detectors) according to the current revision of SOP 409 based on SW-846 Method 8082.

All acceptance criteria were met.

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Sample Number(s) Cross-Reference Table

OrderNum: 2107407 Client Name: Earth Services & Abatement Client Project Name: Cheyenne RS Client Project Number: 215WY001 Client PO Number:

Client Sample Number	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
CHE-CNW11047-150721-001P;	2107407-1		SOLID	15-Jul-21	10:00



ALS Laboratory Group

225 Commerce Drive Fort Collins, Colorado, 80524

	225 Commerce Drive, Fort Collins, Colorado 80524 TF: (800) 443-1511 PH: (970) 490-1511 FX: (970) 490-1522													Form 2	0218		ORNO	RDER #					
LS)		SAMPL	LER	Joseph Kulm				100		D/	TE			_				PAGE	-	1	of		-
PROJECT NAME	Cheyenne RS	8111	EID	CNW 11047			_		TUR	AROU	ND		5 0	Day		+	D	SPOSAL	By I	.ab o			_
PROJECT No.	215WY001	EDD FORM	TAN							П		Т			Т		Г		Ť		T		Т
		PURCHASE ORD	DER					1															L
COMPANY NAME	Earth Services & Abatement	BILL TO COMPA	ANY	Earth Services & Ab	atement			1														1	l
SEND REPORT TO		INVOICE ATTN	TO		_			1				i											L
ADDRESS	6700 E. 50th Ave.	ADDRE	E88	6700 E. 50th Ave.				1															L
CITY / STATE / ZIP	Commerce City, CO 80022	CITY / STATE /	ZIP	Commerce City, CO	80022			1															L
PHONE	303-991-1280	PHC	ONE	303-991-1280			-	1															L
FAX	303-991-1282		FAX	303-991-1282				l Ba					Í										
E-MAIL	Amanda.Wozab@esasite.com; Joseph.Kulm@ESAsite.com	E-M	IAIL,					PCB by 80															
Lab ID	Field ID	Matrix	Sam Da		Bottles	Pres.	QC																
1	CHE-CNW11047-150721-001P; Gray Caulk, door seam	NS	07.1	5.21 1000				x				-											
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		-																					
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	ST MST PST Matrix O≖oil S≭soil NS=non-soils⊮																						

Chain-of-Custody

For metals or anions, please detail analytes below.			0	810	NATURE	A. DESCRIPTION	PRINTED NAME		DATE	TIME
Comments:	QC PACKAGE (check below)	RELINQUISHED BY		N	de	Joseph Ki	utm	5	19	
	LEVEL II (Standard QC)	RECEIVED BY	7	71-	15	Jay	h Echen	コジ	ABLI	0445
	LEVEL III (Std QC + forms)	RELINQUISHED BY		0					1 1/	
	LEVEL IV (Std QC + forms + raw data)	RECEIVED BY								
· · · · · · · · · · · · · · · · · · ·		RELINQUISHED BY								
Preservative Key: 1-HCI 2-HNO3 3-H2SO4 4-NaOH 5-NaHSO4 7-Othe	8-4 degrees C 9-5035	RECEIVED BY						-		

1



ALS Environmental - Fort Collins CONDITION OF SAMPLE UPON RECEIPT FORM

(ALS)									
C	Client:	EARTH SERVICES & ABAT	EMENT	Workor	der No:	2	107407		
Project Mar	nager:	КМО	In	itials:	JPE	Date:	07/2	21/2021	
							N/A	YES	NO
1. Are airbills / sl	hipping	documents present and/or	removable?						
		315 9831 3879						Х	
· · · · · · · · · · · · · · · · · · ·		shipping containers intact?					Х		
3. Are custody se	eals on s	sample containers intact?					Х		
4. Is there a COC	; (chain-	of-custody) present?						Х	
5.	-	ent with samples received? quested analyses, etc.)	(IDs, dates, tin	nes, # 0	of sample	s, # of		х	
6. Are short-hold	d sample	s present?							Х
7. Are all sample	s within	holding times for the requ	lested analyse	s?				Х	
^{8.} Were all samp	ole conta	ainers received intact? (not	t broken or lea	aking)				Х	
9. Is there suffici	ent sam	ple for the requested analy	yses?					Х	
10. Are samples ir <i>Guidelines</i>)	ר proper	r containers for requested a	analyses? (form	n 250, <i>Sa</i>	ample Han	dling		х	
11. Are all aqueou	us samp	les preserved correctly, if re	equired? (excl	uding	volatiles)		Х		
		ing no headspace (VOC, GR meter? (i.e. size of green pe		radon)	free of k	oubbles	х		
13. Were the sam	ples shi	pped on ice?							Х
^{14.} Were cooler ter	mperatu	res measured at 0.1-6.0°C?	IR gun used*: #	5			RAD ONLY		Х
Coc	oler #:	1							
Temperature	-								
# of custody seals on	_								
External µR/hr re									
Background µR/hr re	_	11							
	_)OT acceptance crit	eria? YF		A (If no. se	e Form 00	8.)	
•		e for NO responses to boxes ab							
								in iogini	
Were unpreserved	bottles p	H checked? YES / NA	All client	bottle I	D's vs ALS	lab ID's c	louble-ch	ecked by	/: JE
If applicable, was the	eclient co	ntacted? YES / NO / NA Contact	t:				Date/1		
Project Manager S	Signature	/ Date:	1					7/23/2	21
	-		•						
Form 201r30.xls									

ALS -- Fort Collins

SAMPLE SUMMARY REPORT

	Bano
Collection Date:	7/15/2021 10:00
Legal Location:	
Sample ID:	CHE-CNW11047-150721-001P; Gray Caulk, door seam
Project:	215WY001 Cheyenne RS
Client:	Earth Services & Abatement

Date: 09-Aug-21 **Work Order:** 2107407

Lab ID: 2107407-1

Matrix: SOLID

Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBs		SW80	82	Prep	Date: 7/30/2021	PrepBy:CPC
AROCLOR-1016	ND		2.8	MG/KG	6	8/6/2021 17:21
AROCLOR-1221	ND		5.7	MG/KG	6	8/6/2021 17:21
AROCLOR-1232	ND		2.8	MG/KG	6	8/6/2021 17:21
AROCLOR-1242	ND		2.8	MG/KG	6	8/6/2021 17:21
AROCLOR-1248	ND		2.8	MG/KG	6	8/6/2021 17:21
AROCLOR-1254	ND		2.8	MG/KG	6	8/6/2021 17:21
AROCLOR-1260	ND		2.8	MG/KG	6	8/6/2021 17:21
Surr: TETRACHLORO-M-XYLENE	80		69-129	%REC	6	8/6/2021 17:21
Surr: DECACHLOROBIPHENYL	97		55-135	%REC	6	8/6/2021 17:21

Client:	Earth Services & Aba	atement				Date: 09-A	ug-21
Project:	215WY001 Cheyenn	e RS				Work Order: 2107	7407
Sample ID:	CHE-CNW11047-15	0721-001P; Gray	y Caulk, door s	seam		Lab ID: 2107	7407-1
Legal Location:						Matrix: SOL	ID
Collection Date	7/15/2021 10:00				Perc	ent Moisture:	
Analyses		Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Explanation of (Qualifiers						

MDC.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

P - LCS, Matrix Spike Recovery within control limits.

NC - Not Calculated for duplicate results less than 5 times MDC

B3 - Analyte concentration greater than MDC but less than Requested

N - Matrix Spike Recovery outside control limits

B - Analyte concentration greater than MDC.

L - LCS Recovery below lower control limit.

H - LCS Recovery above upper control limit.

Radiochemistry:

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U or ND - Result is less than the sample specific MDC.

Y1 - Chemical Yield is in control at 100-110%. Quantitative yield is assumed.

- Y2 Chemical Yield outside default limits.
- W DER is greater than Warning Limit of 1.42
- * Aliquot Basis is 'As Received' while the Report Basis is 'Dry Weight'.
- # Aliquot Basis is 'Dry Weight' while the Report Basis is 'As Received'.
- G Sample density differs by more than 15% of LCS density.
- D DER is greater than Control Limit
- M Requested MDC not met.

Inorganics:

B - Result is less than the requested reporting limit but greater than the instrument method detection limit (MDL).

U or ND - Indicates that the compound was analyzed for but not detected.

E - The reported value is estimated because of the presence of interference. An explanatory note may be included in the narrative.

- M Duplicate injection precision was not met.
- N Spiked sample recovery not within control limits. A post spike is analyzed for all ICP analyses when the matrix spike and or spike duplicate fail and the native sample concentration is less than four times the spike added concentration.
- Z Spiked recovery not within control limits. An explanatory note may be included in the narrative.
- * Duplicate analysis (relative percent difference) not within control limits.
- S SAR value is estimated as one or more analytes used in the calculation were not detected above the detection limit.

Organics:

U or ND - Indicates that the compound was analyzed for but not detected.

- B Analyte is detected in the associated method blank as well as in the sample. It indicates probable blank contamination and warns the data user.
- E Analyte concentration exceeds the upper level of the calibration range.
- J Estimated value. The result is less than the reporting limit but greater than the instrument method detection limit (MDL).
- A A tentatively identified compound is a suspected aldol-condensation product.
- X The analyte was diluted below an accurate quantitation level.
- * The spike recovery is equal to or outside the control criteria used.
- + The relative percent difference (RPD) equals or exceeds the control criteria.
- G A pattern resembling gasoline was detected in this sample.
- D A pattern resembling diesel was detected in this sample.
- M A pattern resembling motor oil was detected in this sample.
- C A pattern resembling crude oil was detected in this sample.
- 4 A pattern resembling JP-4 was detected in this sample.
- 5 A pattern resembling JP-5 was detected in this sample.
- H Indicates that the fuel pattern was in the heavier end of the retention time window for the analyte of interest.
- L Indicates that the fuel pattern was in the lighter end of the retention time window for the analyte of interest.
- Z This flag indicates that a significant fraction of the reported result did not resemble the patterns of any of the following petroleum hydrocarbon products: - gasoline
- JP-8
- diesel
- mineral spirits
- motor oil
- Stoddard solvent bunker C

ALS -- Fort Collins LIMS Version: 7.020

SAMPLE SUMMARY REPORT

ALS -- Fort Collins

Client:	Earth Services & Abatement
Work Order:	2107407
Project:	215WY001 Cheyenne RS

QC BATCH REPORT

Batch ID: EX210730-3-1	Instrument ID: Pes	st-1		Method: S	W8082						
LCS Sample ID: EX210730	-3			U	nits: MG/K	G	Analy	sis Date: 8	/6/2021	14:13	
Client ID:	Run II	D: PT210806-1	1				Prep Date: 7/3	0/2021	DF	: 1	
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qua
AROCLOR-1016	0.133	0.0333	0.133		99	80-120				50	
AROCLOR-1260	0.137	0.0333	0.133		103	80-125				50	
Surr: TETRACHLORO-M-XYLENE	0.0152		0.0167		91	69-129					
Surr: DECACHLOROBIPHENYL	0.0187		0.0167		112	55-135					
LCSD Sample ID: EX210730	-3			U	nits: MG/K	G	Analysis Date: 8/6/2021 14:32				
Client ID:	Run II	D: PT210806-1	1				Prep Date: 7/3	0/2021	DF	: 1	
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qua
AROCLOR-1016	0.125	0.0333	0.133		94	80-120		0.133	6	50	
AROCLOR-1260	0.131	0.0333	0.133		99	80-125		0.137	4	50	
Surr: TETRACHLORO-M-XYLENE	0.015		0.0167		90	69-129			1		
Surr: DECACHLOROBIPHENYL	0.0178		0.0167		107	55-135			5		
MB Sample ID: EX210730	-3			U	nits: MG/K	G	Analy	sis Date: 8	/6/2021	11:25	
Client ID:	Run II	D: PT210806-1	1			l	Prep Date: 7/3	0/2021	DF	: 1	
Analyte	Result	ReportLimit									Qua
AROCLOR-1016	ND	0.033									
AROCLOR-1221	ND	0.067									
AROCLOR-1232	ND	0.033									
AROCLOR-1242	ND	0.033									
AROCLOR-1248	ND	0.033									
AROCLOR-1254	ND	0.033									
AROCLOR-1260	ND	0.033									
Surr: TETRACHLORO-M-XYLENE	0.0158				95	69-129					

The following samples were analyzed in this batch:

2107407-1

Appendix 3 - Modified Sawyer Algorithm

Report Date	08/10/2021
Rolling Stock Type	Caboose
Rolling Stock No	CNW 11047

SAWYER ALGORITHM PRIORITY Asbestos Potential Exposure and Priority Level Algorithm Asset Number CNW 11047 **Breakers** Exposure Area Asbestos Containing Material Black bakelite CHE-CNW11047-150721-007 thru 009 Sample Number Size NA Quantity 0.5 SF MATERIAL CONDITION (MC) 0 0 =No damage, excellent condition 1 =Very minor damage, no visible debris 2 =Damage is evident, small area 3 =Damage is easily seen, some debris 4 =Damage is widespread, debris is common 5 =Most or all material is damaged, hanging, and / or found as debris throughout the area **BUILDING AGE (BA)** 1 =>30 years old 0 =15 - 30 years old -1 =<15 years old MATERIAL TYPE Pipe Covering (PC) 1 =MAG/CAL Silicate NA -1 =Air Cell / paper Ceiling Plasters or Fireproofing (CP) NA 1 =Cementitious (Monocoat) 0 =Standard 1 ="Cotton Candy" texture WATER DAMAGE (WD) 0 0 =No water damage 1 =Small amount of damage can be seen: damage is localized rather than widespread 2 =Good deal of water damage; widespread ROOF CHARACTERISTICS (RC) -0.5 -0.5 =Sloped or Hipped -0.5 =Metal or Concrete 0.5 =Flat or Built-up EXPOSED SURFACE AREA (ESA) 4 0 =Material behind a permanent enclosure 2 =Material behind a lay-in ceiling or in open tunnel 4 =Material is exposed ACCESSIBILITY (AC) 0 =Totally inaccessible л 1 =Can only reach with hands, ie. pipe chase 2 =An open tunnel or above a drop ceiling 3 =Exposed overall, but can't reach, ie. >10' high 4 =Material is out in the open and <10' high ACTIVITY AND MOVEMENT (A/M) 2 0 =No occupants enter the area 1 =Area is accessed infrequently 2 =Area is accessed frequently WORK ENVIRONMENT (WE) 0.5 -0.5 =Sedentary 0.5 =Non-sedentary SOUND AND MECHANICAL VIBRATIONS (SMV) 0.5 0.5 =Frequent or Constant -0.5 =No recognizable vibration AIR - PLENUM / AIR STREAM (AP) 1 0 =No air plenum or air flow 1 =Air plenum or air flow exists VELOCITY (if Air Plenum = 1) (VEL) -0.25 0.25 =Recognizable by human feeling -0.25 =Non-recognizable by human feeling FLOW (if Air Plenum = 1) (FL) -0.25 =Constant, steady stream NA 0.25 =Impact, gusty flow FRIABILITY (F) 1 1 =Very hard to crumble under hand pressure 2 = Will crumble under a little hand pressure 3 =Extremely easy to crumble under light pressure ASBESTOS CONTENT (ASB) 2 0 =None <1% 1 =1% to 10% Asbestos 2 =11% to 50% Asbestos 3 =51% to 100% Asbestos Exposure Value 24.5

3

Rating



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Specializing in environmental services and demolition

August 10th, 2021

Union Pacific Railroad Asbestos Program c/o GHD 3807 South 148th Street Omaha, NE 68144

RE: WY, Cheyenne, Rollingstock CNW 11097, Requested NESHAP Inspection Earth Services & Abatement Project Number: 215WY001

To Whom It May Concern,

Please find our NESHAP report for the above-mentioned requested inspection. Earth Services & Abatement's Joseph Kulm inspected UPRR railcar CNW 11097 for suspect asbestos-, lead-, and PCB-containing materials. The inspection work took place on July 14th, 2021.

No previous reports were provided for review prior to inspection.

Refer to the report for a summary of this inspection, including inspection/lab results, inspection photographs, and schematics.

If you have any questions or need anything else for this project, please do not hesitate to contact us.

Conducted by,

Jospeh Kulm Inspector Earth Services & Abatement

Reviewed by,

Syplie

Robert Szynskie Program Director Earth Services & Abatement Robert.szynskie@esasite.com Cell – 720-206-9238

Reinspection	_		Inono	dia a Orante Data	07/44/000
	_		•	ction Start Date	07/14/202
				ction End Date	07/14/202
ny	X NE	SHAP Inspection	Repor	t Date	08/10/202
ervices & Abatement		License No.	16608		
TH AVE		City Comm	erce City		
		State CO	2	Zip <u>80022</u>	
tion					
	Las	st Name Kulm			
RA License No.	C6LEMC	A0R3U	Lice	nse State	
Caboose					
CNW 11097		Car Name	CNW 1	1097	
Cheyenne	Subdivision	Unknov	own		
East Union Pacific Ave.	Mile Post	vn			
Cheyenne	Latitude	41.1295	553°		
WY		Longitude	-104.81	5052°	
87002					
Phone Number	Com	bany		Role/Responsibili	ty
303-991-1280	Earth	Services & Abate	ment	Inspector	
303-991-1280	Earth	Services & Abate	ment	Program Director	
307-214-3545	UPRF	२		Local Contact	
	RA License No. Caboose	ion	State CO State CO State CO License No. Last Name Kulm RA License No. C6LEMQA0R3U Caboose Car Name CNW 11097 Car Name Cheyenne Subdivision East Union Pacific Ave. Mile Post Cheyenne Latitude WY Longitude 87002 Phone Number Company 303-991-1280 Earth Services & Abate 303-991-1280 Sarth Services & Abate 307-214-3545	State CO Z State CO Z State CO Z RA License No. C6LEMQA0R3U Lice Caboose Car Name CNW 1 Cheyenne Subdivision Unknow East Union Pacific Ave. Mile Post Unknow Cheyenne Latitude 41.1295 WY Longitude -104.81 87002 Phone Number Company 303-991-1280 Earth Services & Abatement 303-991-1280 Earth Services & Abatement 307-214-3545 UPRR	State CO Zip 80022 cion Last Name Kulm RA License No. C6LEMQA0R3U License State Caboose Car Name CNW 11097 Cheyenne Subdivision Unknown East Union Pacific Ave. Mile Post Unknown Cheyenne Latitude 41.129553° WY Longitude -104.815052° 87002 Phone Number Company Role/Responsibili 303-991-1280 Earth Services & Abatement Inspector 303-991-1280 Earth Services & Abatement Program Director 307-214-3545 UPRR Local Contact

	Rolling Stock Asbestos Inspection Report Report Date Rolling Stock Type Rolling Stock No							
	estos Results					5		
ACM Pr		Total Number	of ACM Components. ¹ 1					
Total Notes	umber of Materials Containing	g <= 1% Asbestos.	0					_
	Asbestos Sam	ples						
Sample Date	Sample ID	Description	Location	Asbestos Result ²	ACM Category	Friable	Quantity	Modified Algorithm Number
07/14/2021	CHE-CNW11097-140721 -001 thru 003	Black bakelite	Breakers	6%, Chrysotile	Category II	No	0.5 sq. ft.	4
07/14/2021	CHE-CNW11097-140721 -004 thru 006	White sealant	Interior wall seams, door seams and roof penetrations	Not Detected	N/A	N/A	300 LF	N/A
07/14/2021	CHE-CNW11097-140721 -007 thru 009	Beige mastic	Interior wall boards and floor boards	Not Detected	N/A	N/A	1100 sq. ft.	N/A
07/14/2021	CHE-CNW11097-140721 -010 thru 012	Black brake pads	Exterior wheels	Not Detected	N/A	N/A	4 sq. ft.	N/A
07/14/2021	CHE-CNW11097-140721 -013 thru 015	Black/brown caulk	Door seams	Not Detected	N/A	N/A	32 LF	N/A

1 "ACM Present" is defined as material with >1% asbestos, except in California, where Asbestos-Containing Construction Material (ACCM) is defined as >0.1% asbestos.

2 For samples collected in sets, only the highest result is reported. Some of the collected samples may not have been analyzed. See the attached laboratory report for additional details.

3 "Lead Present" and "Positive" is defined as paint with $\geq 0.5\%$ lead.

4 "PCBs Present" and "Positive" is defined as caulk with \geq 50 ppm PCBs.

BUILDING AME)	lling St	tock Asbestos Inspe	ction	Report Repo Rolling Stoc Rolling Sto		08/10/202 Caboose CNW 110	
Lead-Ba Lead Presen Notes	ased Paint Results nt ³ Yes 7	Total Numbe	er of Positive Components. ³ 3					
	Paint Samples	5						
Sample Date	Sample ID		Description		Location		.ead esult	Condition
07/14/2021	CHE-CNW11097-140721-	-001L	Gray		Interior under wall boards	1.2 %	6 (Good
07/14/2021	CHE-CNW11097-140721-	-002L	Yellow		Exterior	0.014	4 % F	Poor
07/14/2021	CHE-CNW11097-140721-	-003L	Green/White/Black		Exterior handrails, steps, roof	3.9 %	6 F	Poor
07/14/2021	CHE-CNW11097-140721-	-004L	Black		Exterior undercarriage	2.1 %	6 C	Good
PCBs Preser Notes	orinated Biphenyls Results		er of Positive Components. ⁴ 0				1	
Sample Date	Sample ID		Description	Locati	ion		PCBs Result	Quan
4/2021	CHE-CNW11097-140721-001 P	Black/bro			seams		Not Detected	32 LF
or samples collec	defined as material with >1% asbestos, ex acted in sets, only the highest result is report and "Positive" is defined as paint with $\ge 0.5\%$	orted. Some of th					tional details.	

4 "PCBs Present" and "Positive" is defined as caulk with ≥50 ppm PCBs.

BUILDING AMERICA"	Rolling Stock Asbestos Inspection Report Bate Report Date Rolling Stock Type Rolling Stock No	08/10/2021 Caboose CNW 11097
Mold Results Suspect Mold Present Notes	<u>No</u>	

1 "ACM Present" is defined as material with >1% asbestos, except in California, where Asbestos-Containing Construction Material (ACCM) is defined as >0.1% asbestos.

2 For samples collected in sets, only the highest result is reported. Some of the collected samples may not have been analyzed. See the attached laboratory report for additional details.

3 "Lead Present" and "Positive" is defined as paint with $\geq 0.5\%$ lead.

4 "PCBs Present" and "Positive" is defined as caulk with \geq 50 ppm PCBs.



Rolling Stock Asbestos Inspection Report Asset Photos Report Date 08/10/2021

BUILDING AMERICA



Train ID Marking



View of railcar, looking south-southeast

Rolling Stock Type

Caboose

Rolling Stock No CNW 11097



View of railcar, looking east



View of railcar interior



Rolling Stock Asbestos Inspection Report Sample Photos Report Date 08/10/2021

BUILDING AMERICA**



CHE-CNW11097-140721-001 thru 003, 6% Asbestos, Black bakelite



CHE-CNW11097-140721-004 thru 006, Asbestos Not Detected, White sealant



CHE-CNW11097-140721-007 thru 009, Asbestos Not Detected, Beige mastic

Rolling Stock Type

e Caboose

Rolling Stock No CNW 11097

CHE-CNW11097-140721-001 thru 003, 6% Asbestos, Black bakelite



CHE-CNW11097-140721-004 thru 006, Asbestos Not Detected, White sealant



CHE-CNW11097-140721-007 thru 009, Asbestos Not Detected, Beige mastic



Rolling Stock Asbestos Inspection Report Sample Photos Report Date 08/10/2021

BUILDING AMERICA**



CHE-CNW11097-140721-010 thru 012, Asbestos Not Detected, Black brake pads



CHE-CNW11097-140721-013 thru 015, Asbestos Not Detected, Black/brown caulk



CHE-CNW11097-140721-001L, 1.2% Lead, Gray

Caboose

Rolling Stock No CNW 11097

Rolling Stock Type



CHE-CNW11097-140721-010 thru 012, Asbestos Not Detected, Black brake pads



CHE-CNW11097-140721-013 thru 015, Asbestos Not Detected, Black/brown caulk



CHE-CNW11097-140721-001L, 1.2% Lead, Gray



Rolling Stock Asbestos Inspection Report Sample Photos Report Date 08/10/2021

BUILDING AMERICA"



CHE-CNW11097-140721-002L, 0.014% Lead, Yellow



CHE-CNW11097-140721-003L, 3.9% Lead, Green/White/Black



CHE-CNW11097-140721-004L, 2.1% Lead, Black

Rolling Stock Type

e Caboose

Rolling Stock No CNW 11097

CHE-CNW11097-140721-002L, 0.014% Lead, Yellow



CHE-CNW11097-140721-003L, 3.9% Lead, Green/White/Black



CHE-CNW11097-140721-004L, 2.1% Lead, Black



Rolling Stock Asbestos Inspection Report Sample Photos Report Date 08/10/2021

BUILDING AMERICA"



CHE-CNW11097-140721-001P, PCB Not Detected, Black/brown caulk

Rolling Stock Type

Rolling Stock No CNW 11097

Caboose

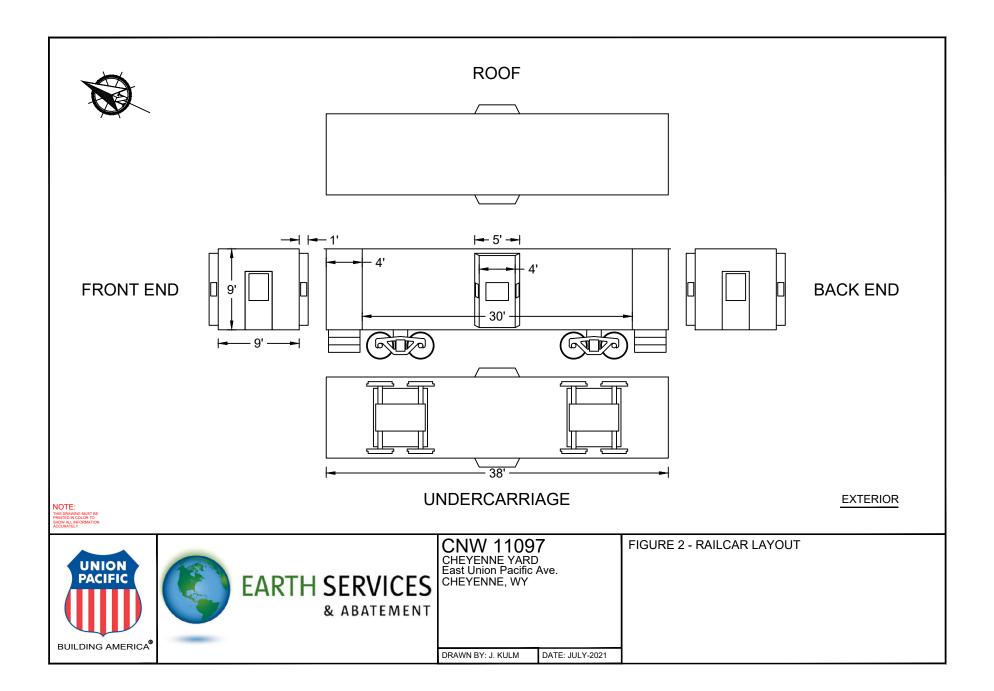


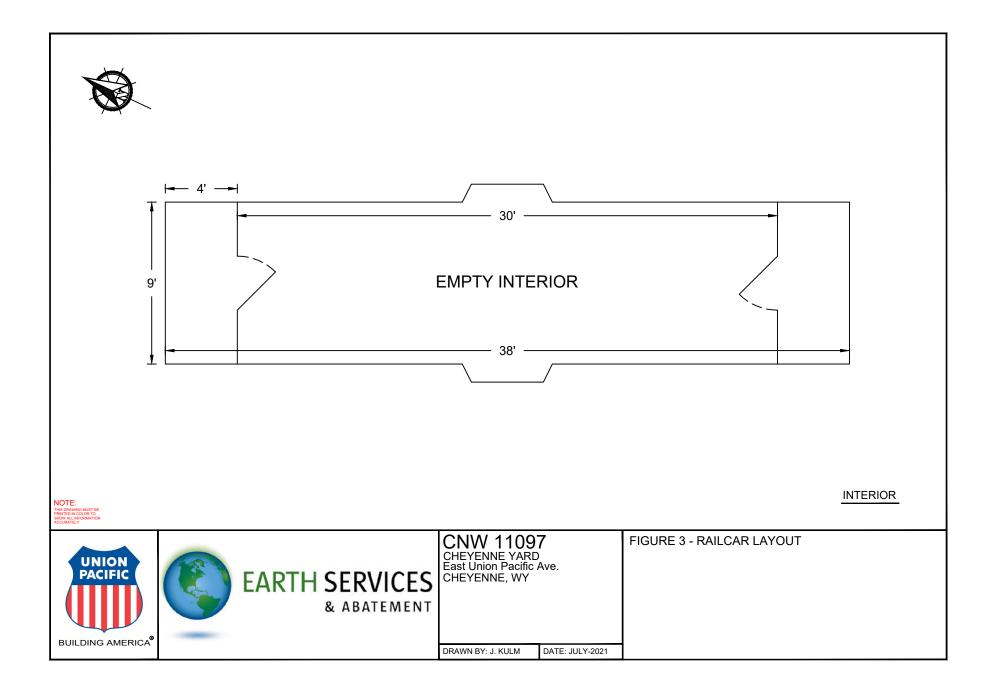
CHE-CNW11097-140721-001P, PCB Not Detected, Black/brown caulk

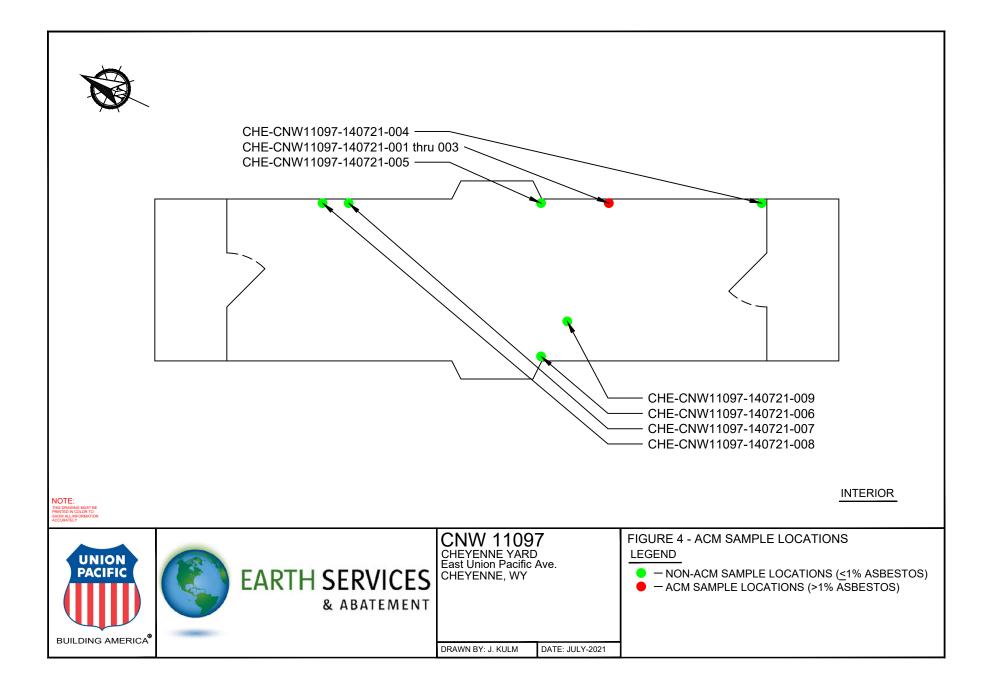
Appendix 1 - Figures

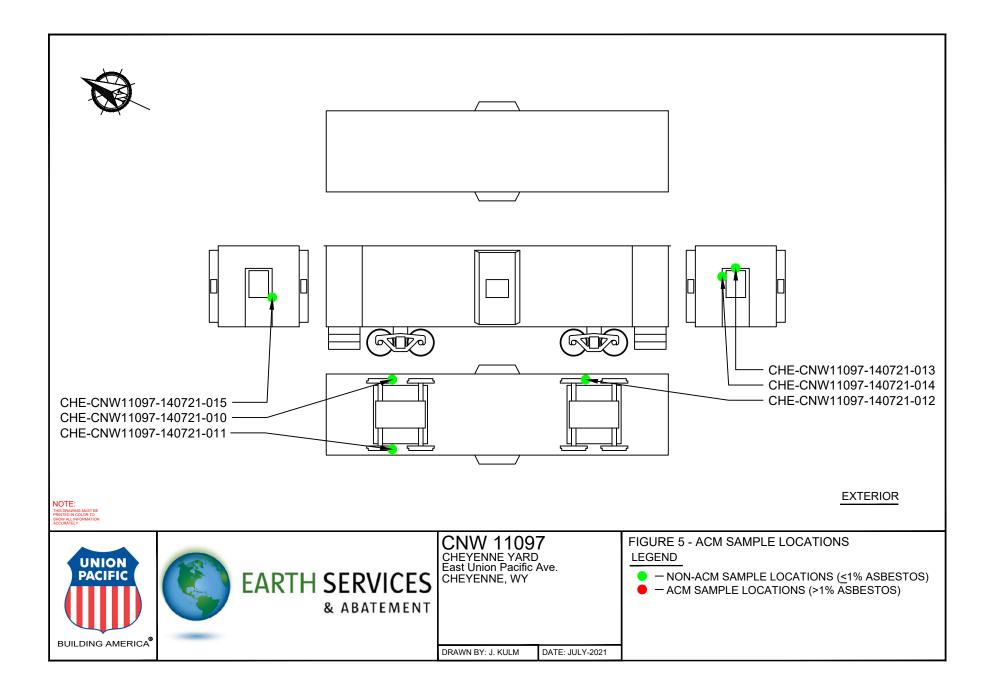
Report Date08/10/2021Rolling Stock TypeCabooseRolling Stock NoCNW 11097

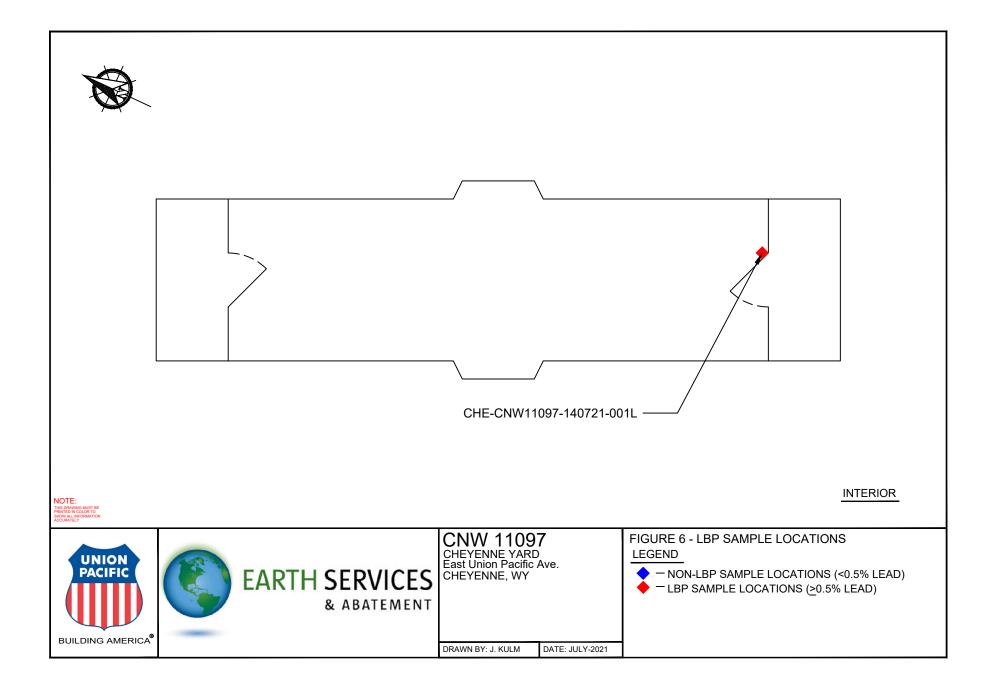


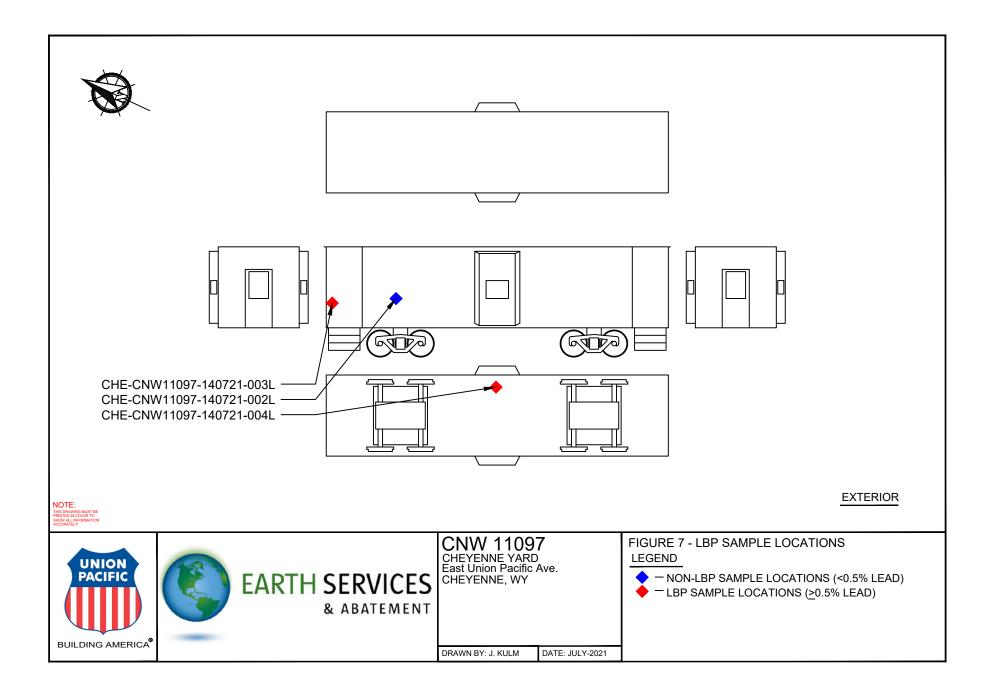


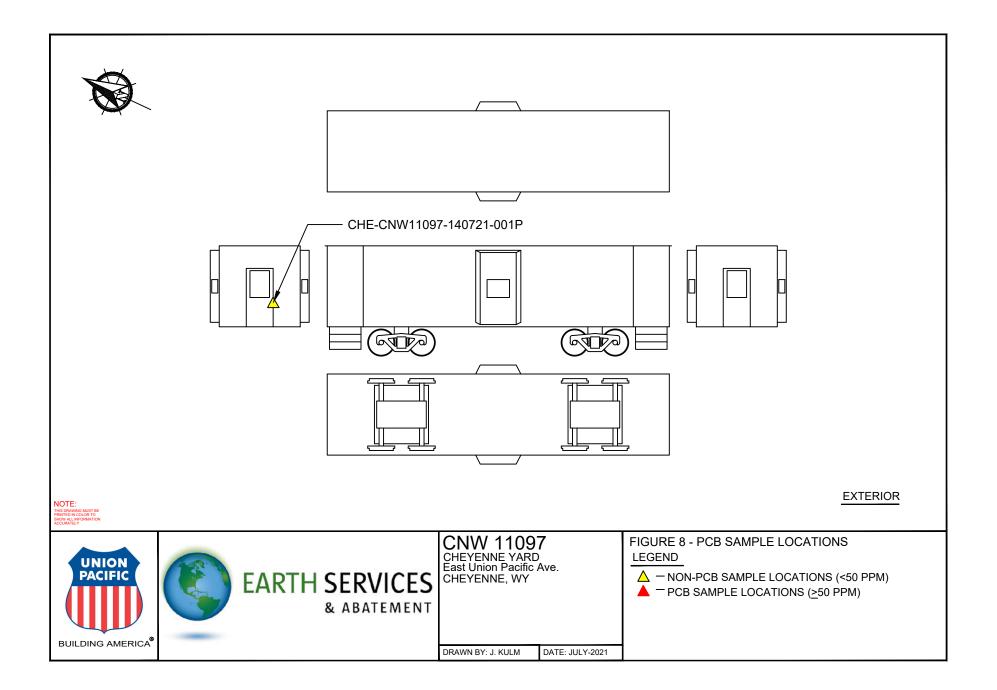


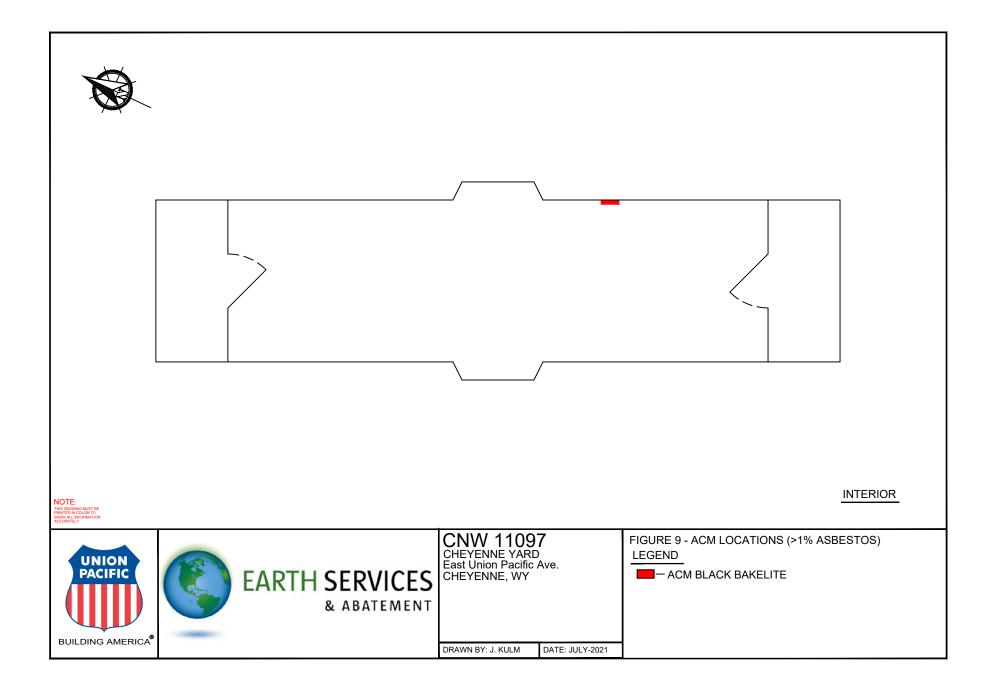












Appendix 2 - Lab Reports and Chain of Custody Receipts

Report Date	08/10/2021
Rolling Stock Type	Caboose
Rolling Stock No	CNW 11097

Eurofins J3 Resources, Inc.

3113 Red Bluff Road, Pasadena, TX 77503 Phone: (713) 290-0223 - Fax: (713) 290-0248 *J3Resources.com*





Bulk Asbestos Fiber Analysis by Polarized Light Microscopy (PLM) Appx E Sub E 40 CFR 763 / EPA 600/R-93/116

Joseph Kulm Earth Services & Abatement, Inc. 6700 E. 50th Avenue Commerce City CO 80022
 Order #:
 JH21129241

 Project #:
 215WY001

 Date Received:
 20-Jul-2021

 Date Analyzed:
 22-Jul-2021

 Date Reported:
 22-Jul-2021

CNW 11097 WY Rollingstock Inspections

Sample ID #	Sample Description	Asbestos Constituents	Non-Asbestos Constituents	
CHE-CNW11097- 140721-001	Bakelite, Black, Homogeneous	Chrysotile 6%	% Non-Fibrous Material	94%
CHE-CNW11097- 140721-002	Bakelite, *Not analyzed per client reques	st		
CHE-CNW11097- 140721-003	Bakelite, *Not analyzed per client reques	st		
CHE-CNW11097- 140721-004	Sealant, Gray/ White, Homogeneous	None Detected	Non-Fibrous Material	100%
CHE-CNW11097- 140721-005	Sealant, Gray/ White, Homogeneous	None Detected	Non-Fibrous Material	100%
CHE-CNW11097- 140721-006	Sealant, Gray/ White, Homogeneous	None Detected	Non-Fibrous Material	100%
CHE-CNW11097- 140721-007	Mastic, Beige/ Brown, Homogeneous	None Detected	Non-Fibrous Material	100%
CHE-CNW11097- 140721-008	Mastic, Beige/ Brown, Homogeneous	None Detected	Non-Fibrous Material	100%
CHE-CNW11097- 140721-009	Mastic, Beige/ Brown, Homogeneous	None Detected	Non-Fibrous Material	100%
CHE-CNW11097- 140721-010	Brakes, Black, Homogeneous	None Detected	Fibrous Glass Non-Fibrous Material	3% 97%
CHE-CNW11097- 140721-011	Brakes, Black, Homogeneous	None Detected	Fibrous Glass Non-Fibrous Material	3% 97%

Scott Ward, Ph.D. Lab Director

Juliann Johnson

Analyst

These results apply to the sample(s) as received. This report is for the exclusive use of the addressed client and shall not be reproduced except in full, without written approval by Eurofins J3 Resources, Inc. (EJ3). Samples are analyzed according to the methods listed above and are subject to the inherent limitations of PLM and interference of matrix components. Reporting limit for the above method is a function of the quantity of sample analyzed, matrix interference, sample preparation, fiber size, and distribution. Asbestos may be detected in concentrations of <1% by area if sufficient material is analyzed. EJ3 recommends TEM confirmation of soils, verniculite and non-friable organically bound materials (NOB) reported as None Detected or < 1% Asbestos by PLM. All samples received in good condition unless otherwise noted. This report shall not be used to claim product approval, certification, or endorsement by NVLAP, NIST, or any agency of the federal government.

Eurofins J3 Resources, Inc.

3113 Red Bluff Road, Pasadena, TX 77503 Phone: (713) 290-0223 - Fax: (713) 290-0248 *J3Resources.com*





Bulk Asbestos Fiber Analysis by Polarized Light Microscopy (PLM) Appx E Sub E 40 CFR 763 / EPA 600/R-93/116

Joseph Kulm Earth Services & Abatement, Inc. 6700 E. 50th Avenue Commerce City CO 80022
 Order #:
 JH21129241

 Project #:
 215WY001

 Date Received:
 20-Jul-2021

 Date Analyzed:
 22-Jul-2021

 Date Reported:
 22-Jul-2021

CNW 11097 WY Rollingstock Inspections

Sample ID #	Sample Description	Asbestos Constituents	Non-Asbestos Constituents	
CHE-CNW11097- 140721-012	Brakes, Black, Homogeneous	None Detected	Fibrous Glass Non-Fibrous Material	3% 97%
CHE-CNW11097- 140721-013	Caulking, Brown/ Black, Homogeneous	None Detected	Non-Fibrous Material	100%
CHE-CNW11097- 140721-014	Caulking, Brown/ Black, Homogeneous	None Detected	Non-Fibrous Material	100%
CHE-CNW11097- 140721-015	Caulking, Brown/ Black, Homogeneous	None Detected	Non-Fibrous Material	100%

Scott Ward, Ph.D. Lab Director

Juliann Johnson

Analyst

These results apply to the sample(s) as received. This report is for the exclusive use of the addressed client and shall not be reproduced except in full, without written approval by Eurofins J3 Resources, Inc. (EJ3). Samples are analyzed according to the methods listed above and are subject to the inherent limitations of PLM and interference of matrix components. Reporting limit for the above method is a function of the quantity of sample analyzed, matrix interference, sample preparation, fiber size, and distribution. Asbestos may be detected in concentrations of <1% by area if sufficient material is analyzed. EJ3 recommends TEM confirmation of soils, verniculite and non-friable organically bound materials (NOB) reported as None Detected or < 1% Asbestos by PLM. All samples received in good condition unless otherwise noted. This report shall not be used to claim product approval, certification, or endorsement by NVLAP, NIST, or any agency of the federal government.

Revision #v7/MF Revision Date: 3/09/2020

J3 Order # Lato use only

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J3 Resources

Open Lab Fee	
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				V V_				
Submitter Name:	Joseph Kulm				Bill to:	Same		
Company:	Earth Service	es & A	batement, Ilc		Address	:		
Address:	6700 E 50th /	٩ve						
					City/Stat	e:	Zi	p:
City/State: Com	nmerce City , (co	Zip: ⁸⁰⁰²	2	PO #: 2	15WY001		
					nformat	ion		
Project Name: WY F	Rollingstock in	spectio	ons		Proje	ct Manager: Ama	Inda Wozab	
Project #: 215WY00	01 - CNW 110	97			Telep	hone – Office/Ce	II 402-578-68	358
Reports - Email Add	ress: amanda	.wozał	@esasite.com,	joseph	n.kulm@es	asite.com, robert	.szynskie@es	sasite.com
Invoice - Email Addr	ess: same				Noti	fication By: Em	ail: 🗈 Ve	erbal: 🛛
Special Instructions:	400 point-cou	ınt san	nples with detec	tions u	ip to 5% as	sbestos with GR, a	as needed	·
			Turnaround '	Times	s — Pleas	e Select One		
Emergency*	D 1	Day		2 Day	, 🖸	3 Day		5 Day 🛛
				ASB	ESTOS			
PLM - Bulk	PCM -	Air	TEM - Air	TEN	VI - Bulk	TEM - Water	TEM - Dus	t TEM/PLM Soil/Vermiculite/Ore
 EPA 600/R-93/116 Visual Estimation (< 400 Point Count 0.25 1,000 Point Count 0. Gravimetric Reduction Matrix Reduction (+/- NIOSH 9002 OSHA ID-191 	5% O ISO 867 1% O OSHA II on	7201 2	○ AHERA ○ NIOSH 7402 ○ ASTM D6281 ○ ISO 10312 ○ ISO 13794	Redu O Matri Redu O Qual	uction (+/-) litative (+/-) op Mount	 ○ EPA 100.2 Drinking Water >10 µm fibers ≥0.5 µm fibers ○ EPA 100.2 Effluent / WW Received on ice: ○ Yes ○ No Temp: 	 ASTM D575 Microvac ASTM D648 Wipe 600/J-93/16 Carpet - EPA Bulk Dust Qualitative 	 ASTM 7521-TEM (<1%) CARB 435-Modified Soil – PLM Only (+/-) Vermiculite – TEM (+/-)
			METALS				SILIC	A/PARTICULATES
Flame A	A	Gr	aphite Furnace / LEAD	4A -		ICP	X-Ray D	Diffraction / Gravimetric
O Lead in Paint - SW844 O Lead in Air - NIOSH 7 O Lead in Wipes - SW84 O Lead in Soil - SW846 O TCLP - SW846-1311/	082 46 7420/3050B 7420/3050B	O Was O Soil	iking Water – EPA 2 stewater – SW846-7 /Sludge – SW846-7 - NIOSH 7105	7421	O Wipe/Soi O Effluent -	a in Air - NIOSH 7300 II - SW846-6010B - SW846-6010B Fume - NIOSH 7300	NIOSH 7	oleCrystallineSilica 500 / OSHA 142 1500 Total Particulates 1600 Respirable Particulates
Total Number o	f Samples \$	Subm	itted: 15		Positive	e Stop: 🔳	YES 🗆] NO
	\square	(Sigr	natures			
Relinquished By:	- JM	$\left \right $	ya		10	Date	-1/10/-7	
Received By:				l	<u>}</u>	Date	»: <u>117017</u>	
Relinquished By:					v	Date		Time:
Received By: * Emergency TAT require	n naine lab en tillionti		malas analyzad auteix	do normal	huninges hou	Date		Time:

"TAT's are in Business Days rather than Hours (i.e.1 Day TAT = End of Next Business Day)

Eurofins J3 Resources, Inc. + 6110 West 34th Street + Houston, Texas 77092 + tel: 713-290-0221 + fax: 713-290-0248

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J3 Resources

Project Name WY Rollingstock Inspections Project Number 215WY001 - CNH

SAMPLE IDENTIFICATION

Page ____ of ____

SAMPLE NUMBER	SAMPLE LOCATION / MATERIAL	VOLUME/CONDITION
CHE-CNW11097-140721-001	Black bakelite	
CHE-CNW11097-140721-002	Int. electrical box	
CHE-CNW11097-140721-003		
CHE-CNW11097-140721-004	White sealant	
CHE-CNW11097-140721-005	Int. wall seams, door seams and roof penetrations	
CHE-CNW11097-140721-006		
CHE-CNW11097-140721-007	Beige mastic	
CHE-CNW11097-140721-008	Int. wallboards and floorboards	
CHE-CNW11097-140721-009		
CHE-CNW11097-140721-010	Black brakes	·····
CHE-CNW11097-140721-011	Ext. car wheels	
CHE-CNW11097-140721-012		
CHE-CNW11097-140721-013	Black/brown caulking	
CHE-CNW11097-140721-014	Door seams	
CHE-CNW11097-140721-015		
·····		
Comments/Special Instructions:		

Eurofins J3 Resources, Inc. + 6110 West 34th Street + Houston, Texas 77092 + tel: 713-290-0221 + fax: 713-290-0248 Eurofins J3 Resources, Inc. + 3113 Red Bluff Road + Pasadena, Texas 77503 + tel: 713-290-0223 + fax: 713-290-0248

Eurofins J3 Resources, Inc.

3113 Red Bluff Road Pasadena, Texas 77503 Phone: (713) 290-0223 – Fax: (832) 831-5669 *j3resources.com*

<u>Lead in Paint Performed by</u> Flame AA – USEPA SW846 7420/3050B (Mod.)

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Amanda Wozab Earth Services & Abatement, Inc. 6700 E. 50th Avenue Commerce City, CO 80022
 Order #:
 JP211028593

 Project #:
 215WY001

 Receipt Date:
 21-Jul-2021

 Analysis Date:
 22-Jul-2021

 Report Date:
 23-Jul-2021

SAMPLE ID	PAINT COLOR	LEAD CONCENTRATION (mg/kg)	LEAD CONCENTRATION (%)
CHE-CNW11097-140721-001L	Gray	12000	1.2%
CHE-CNW11097-140721-002L	Yellow	140	0.014%
CHE-CNW11097-140721-003L	Green/White/Black	39000	3.9%
CHE-CNW11097-140721-004L	Black	21000	2.1%

WY Rollingstock Inspections-CNW 11097

Reporting Limit = 50.0 mg/kg N/A = Not Applicable INS = Insufficient Sample Weight NS = Not Submitted

Analyst: Shervin Aghaabbasi

Scott Ward, Ph.D. Lab Director

This report relates only to the samples submitted. The analysis has been conducted according to the method(s) listed above. Blank corrections are not applied to data unless requested by the customer. This report is for the exclusive use of the addressed customer and shall not be reproduced except in full without written approval by Eurofins J3 Resources, Inc. (EJ3). EJ3 is an EPA NLLAP recognized lab by the AIHA-LAP, LLC ELLAP (Lab ID: 157714). Unless otherwise noted, all quality control samples performed within specifications established by the laboratory. The estimated accuracy is solely based on recovery data from internal laboratory control samples at the 95% confidence interval of the level of concern, derived from a 287 mg/kg lead in paint matrix reference material. The estimated accuracy does not account for uncertainty associated with the sampling process. Accuracy = +/-9%

J3 Resources

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2.8 5 (Que Soniy)

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J3 Resources

Open Lab Fee

······	-										
Submitter Name:	Jos	eph Kulm			-	Bill to:	Same				
Company:	Ea	irth Service	es & A	batement, lic		Address:					
Address:	670	0 E 50th A	ve								
						City/State			Zip:		
Co		rce City, C	<u>``</u>	8002	2		 15WY001		_ בוף.		
City/State: Co		<u> </u>		Zip: ⁸⁰⁰²		PO #: 2					
Designed Name	· · · ·				Ject 1						
Project Name: WY				ons			ct Manager: Am				
Project #: 215WY0	01 -	CNW 1109	97			Telep	hone – Office/Ce	ell 402-57	78-685	8	
Reports - Email Ad	dres	s: amanda.	wozał	@esasite.com,	josepl	h.kulm@es	asite.com, rober	t.szynskie	@esa	site.com	
Invoice - Email Add	lress	same				Noti	fication By: En	nail: 🗖	Verb	al: 🛛	
Special Instructions	52										
				Turnaround	Times	s — Pleas	e Select One				
Emergency*		1	Day		2 Day	, 🗆	3 Day			5 Day	
	- 1 1				ASB	ESTOS					
PLM - Bulk		PCM -	Air	TEM - Air	TE	M - Bulk	TEM - Water	TEM -	Dust	/TEM Soil/Vermi	
 EPA 600/R-93/116 Visual Estimation (400 Point Count 0.3 1,000 Point Count (Gravimetric Reduction (+ NIOSH 9002 OSHA ID-191 	25% 0.1% ion	 NIOSH 7 ASTM D ISO 8672 OSHA IE 	7201 2	 ○ AHERA ○ NIOSH 7402 ○ ASTM D6281 ○ ISO 10312 ○ ISO 13794 	⊂ Red ⊂ Matr Red ⊂ Qua ⊂ Dro	vimetric uction (<1%) rix uction (+/-) litative (+/-) op Mount ration	 ○ EPA 100.2 Drinking Water >10 µm fibers ≥0.5 µm fibers ○ EPA 100.2 Effluent / WW Received on ice: ○ Yes ○ No Temp: 		ac D6480 93/167 - EPA ust	 ASTM 752° ASTM 752° CARB 435° Soil PLM Vermiculite Vermiculite Erionite ID 	1-TEM (<1% -Modified Only (+/-) - TEM (+/-)
				METALS				SI	LICA	/PARTICI	JLATES
Flame	AA	<u></u>	Gr	aphite Furnace LEAD	AA -		ICP			fraction / Gr	
Lead in Paint – SW8 Lead in Air – NIOSH Lead in Wipes – SW Lead in Wipes – SW Lead in Soil – SW84	7082 84 6 74	420/3050B 0/3050B	O Wa O Soil	iking Water – EPA : stewater – SW846- /Sludge – SW846-7 – NIOSH 7105	7421	O Wipe/Soi O Effluent -	in Air NIOSH 730 1 - SW846-6010B - SW846-6010B Fume NIOSH 7300		DSH 750 DSH 050	Crystalline Silica 00 / OSHA 142 00 – Total Partic 00 – Respirable	ulates
O TCLP - SW846-131	1/6010	98									
O TCLP - SW846-131 Total Number			Subm	nitted: 4		Positive	e Stop: 🛛	YES		NO	
			Subm	nitted: 4	Sigi	Positive natures	e Stop: □	YES		NO	
			Subm	hitted: 4	Sigi	<u> </u>	e Stop: □ Dat		ା ଜୁନ ଜୁନ	NO Time:	
Total Number			Subm	hitted: 4	Sigi	<u> </u>		ie: <u>7/</u>			10:30
Total Number of Relinquished By:			Subm	hitted: 4	Sigi	<u> </u>	Dat	ie: <u>7</u> /		Time:	10:30

Eurofins J3 Resources, Inc. + 6110 West 34th Street + Houston, Texas 77092 + tel: 713-290-0221 + fax: 713-290-0248

Eurofins J3 Resources, Inc. + 3113 Red Bluff Road + Pasadena, Texas 77503 + tel: 713-290-0223 + fax: 713-290-0248

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Project Name WY Rollingstock Inspections

Project Number 215WY001 - CNM

SAMPLE IDENTIFICATION

Page ____ of ____

J3 Resources

SAMPLE NUMBER	SAMPLE LOCATION / MATERIAL	VOLUME/CONDITION
CHE-CNW11097-140721-001L	Gray	
	Int. under wali board	
CHE-CNW11097-140721-002L	Yellow	
	Ext.	
CHE-CNW11097-140721-003L	Green/White/Black	
	Handrails	
CHE-CNW11097-140721-004L	Black	
	Undercarriage	
Comments/Special Instructions:		

Eurofins J3 Resources, Inc. + 6110 West 34th Street + Houston, Texas 77092 + tel: 713-290-0221 + fax: 713-290-0248 Eurofins J3 Resources, Inc. + 3113 Red Bluff Road + Pasadena, Texas 77503 + tel: 713-290-0223 + fax: 713-290-0248 LIMS Version: 7.020

Monday, August 09, 2021

Amanda Wozab Earth Services & Abatement 6700 E. 50th Ave. Commerce City, CO 80022

Re: ALS Workorder: 2107408 Project Name: Cheyenne RS Project Number: 215WY001

Dear Ms. Wozab:

One solid sample was received from Earth Services & Abatement, on 7/21/2021. The sample was scheduled for the following analysis:

PCBs

The results for these analyses are contained in the enclosed reports.

The data contained in the following report have been reviewed and approved by the personnel listed below. In addition, ALS certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental.

Thank you for your confidence in ALS Environmental. Should you have any questions, please call.

Sincerely,

Μ.

ALS Environmental Katie M. OBrien Project Manager

ADDRESS 225 Commerce Drive, Fort Collins, Colorado, USA 80524 | PHONE +1 970 490 1511 | FAX +1 970 490 1522 ALS GROUP USA, CORP. Part of the ALS Laboratory Group An ALS Limited Company



2107408

PCB:

The sample was analyzed using GC/ECD (electron capture detectors) according to the current revision of SOP 409 based on SW-846 Method 8082.

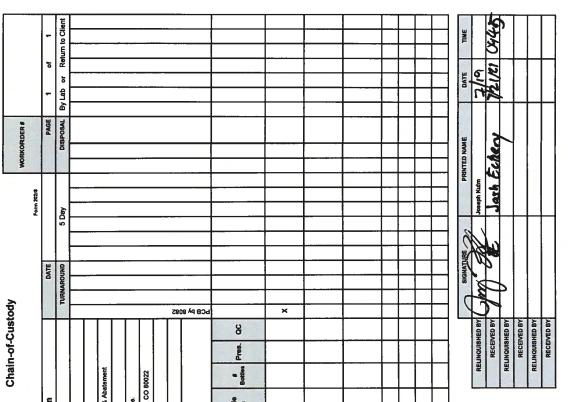
All acceptance criteria were met.

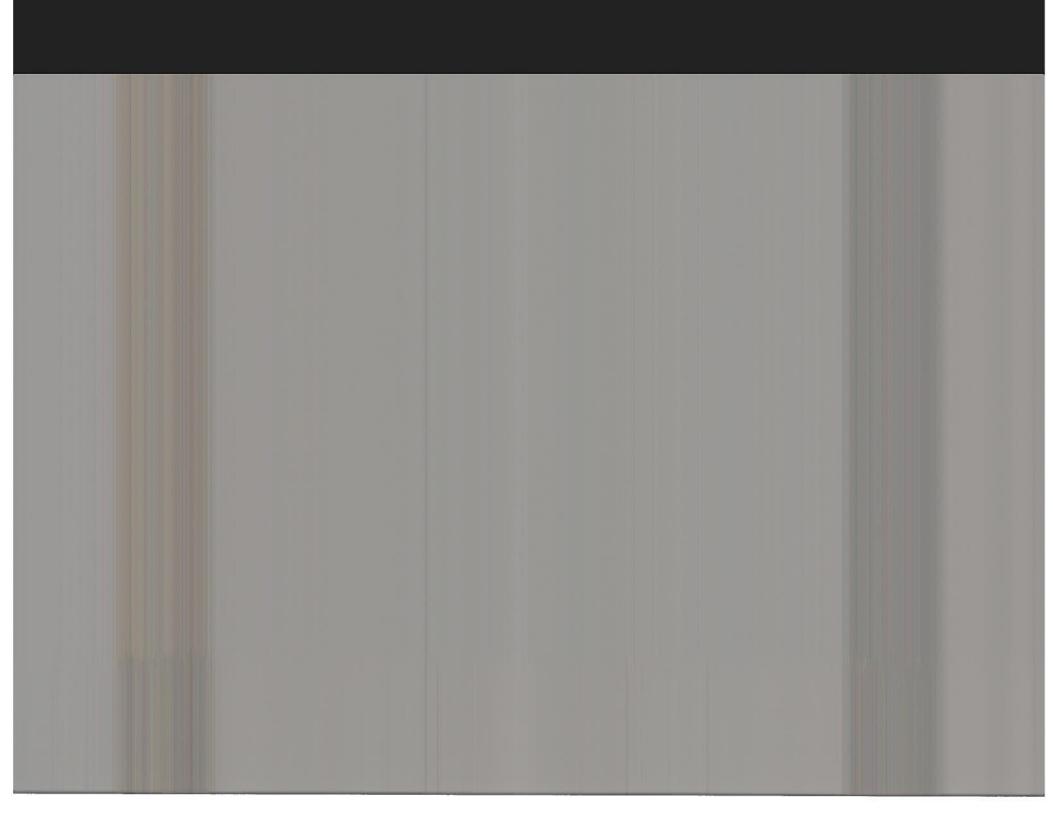
Sample Number(s) Cross-Reference Table

OrderNum: 2107408 Client Name: Earth Services & Abatement Client Project Name: Cheyenne RS Client Project Number: 215WY001 Client PO Number:

Client Sample Number	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
CHE-CNW11097-140721-001P; B	2107408-1		SOLID	14-Jul-21	10:00









ALS Laboratory Group

	225 Commerce Linve, For Couns, Coorado 90244 TF: (800) 443-1511 PH: (870) 480-1511 FX: (870) 490-1522		
(ALS)		8AMPLER	I Joseph Kulm
PROJECT NAME	PROJECT NAME Cheyenne RS	SITE ID	CNW 11097
PROJECT No.	215WY001	EDD FORMAT	
		PURCHASE ORDER	
COMPANY NAME	Earth Services & Abatement	BILL TO COMPANY	Earth Services & Abatemen
SEND REPORT TO		INVOICE ATTN TO	
ADDRESS	6700 E. Soth Ave.	ADDRESS	8 6700 E. 50th Ave.
CITY / STATE / ZIP	Commerce City, CO 80022	CITY / STATE / ZIP	Commerce City, CO 80022
PHONE	303-991-1280	PHONE	303-991-1280
FAX	303-891-1282	FAX	t 303-991-1282
E-MAIL	Amanda. Wozab@e saile.com Joseph.Kulm@ESAsite.com	E-MAIL	
CiabiD	Field ID	Matrix	Sample Sample s Date Time Botte
	CHE-CNW11097-140721-001P; Black/Brown Caulk, door seams	20 SN	07.14.21 1000
Time Zone (Circle) EST C	Tītna Zone (Cinde); EST CST MST PST Match: O≕elai S≃evai NS=non-eoteoried W≃water L=lequid E=extrect F=later For medatals or anionts, piesase destatisanalyties below.	Mid W = water L = liquid E	zextract F = filter
		TO BACKAGE	

Comments:		•					20	OC PACKAGE (check below)	cit below)
	1							LEVEL II	LEVEL II (Standard OC)
								ILEVEL III	LEVEL III (Std QC + forms)
								LEVEL IV (1 + raw data)	LEVEL IV (Std OC + forms + raw data)
Preservative Key:	1-HCI 2	HNO3	3-H2SO4	4-NaOH	5-NaHSO4	7-Other	1-HCI 2-HNO3 3-H2SO4 4-NaOH 5-NaHSO4 7-Other 8-4 degrees C 8-5035	9-5035	



ALS Environmental - Fort Collins CONDITION OF SAMPLE UPON RECEIPT FORM

	Client:	EARTH SERVICES & ABAT	EMENT	Work	order No:	2	107408		
Project M		КМО		Initials				21/2021	
							N/A	YES	NO
1. Are airbills /	shipping	documents present and/or	removabl	e?				N/	
Tracking r	number: 2	815 9831 3879						Х	
· · · · · · · · · · · · · · · · · · ·		shipping containers intact?					Х		
3. Are custody	seals on	sample containers intact?					Х		
4. Is there a CC	DC (chain	-of-custody) present?						Х	
5	•	ent with samples received? equested analyses, etc.)	(IDs, dates	, times, #	of samp	les, # of		х	
6. Are short-ho	old samp	les present?							Х
7. Are all samp	les withi	n holding times for the requ	lested anal	yses?				Х	
8. Were all san	nple cont	tainers received intact? (no	t broken o	r leaking)			Х	
9. Is there suff	icient sar	nple for the requested analy	yses?					Х	
10. Are samples Guidelines)	in prope	er containers for requested a	analyses? (form 250,	Sample Ha	andling		х	
^{11.} Are all aque	ous samp	oles preserved correctly, if r	equired? (excludin	g volatile	s)	Х		
		ring no headspace (VOC, GR ameter? (i.e. size of green po		EE, rado	n) free of	fbubbles	х		
^{13.} Were the sa	mples sh	ipped on ice?							Х
^{14.} Were cooler t	temperatu	ires measured at 0.1-6.0°C?	IR gun used*:	#5			RAD ONLY		Х
C	ooler #:	1							
Temperatu	ure (°C):	AMB							
# of custody seals	on cooler:	0							
External µR/h	r reading:	11							
Background µR/h	r reading:	11							
Were external µF	R/hr reading	$s \leq two times background and within E$	DOT acceptanc	e criteria?	YES / NO /	NA (If no, s	ee Form 00	8.)	
* Please provide	details hei	re for NO responses to boxes ab	ove - for 2 t	nru 5 & 7	thru 12, n	otify PM &	continue	w/ login.	
									·
Were unpreserve	d bottles	pH checked? YES / NA	All clie	ent bottle	e ID's vs A	LS lab ID's o	louble-ch	ecked by	JE
If applicable, was t	he client c	ontacted? YES / NO / NA Contact	t:				Date/1		
Project Manage	r Signatur	e / Date: ////////////////////////////////////	h				_	7/21/2	21
Form 201r30 vls		i							

SAMPLE SUMMARY REPORT

	Report	Dilution	
Collection Date:	7/14/2021 10:00	Percent Moisture:	
Legal Location:		Matrix: SO	DLID
Sample ID:	CHE-CNW11097-140721-001P; Black/Brown Caulk, door	Lab ID: 210	07408-1
Project:	215WY001 Cheyenne RS	Work Order: 210	07408
Client:	Earth Services & Abatement	Date: 09-	-Aug-21

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBs		SW808	2	Prep	Date: 7/30/2021	PrepBy: CPC
AROCLOR-1016	ND		2.3	MG/KG	6	8/6/2021 17:39
AROCLOR-1221	ND		4.7	MG/KG	6	8/6/2021 17:39
AROCLOR-1232	ND		2.3	MG/KG	6	8/6/2021 17:39
AROCLOR-1242	ND		2.3	MG/KG	6	8/6/2021 17:39
AROCLOR-1248	ND		2.3	MG/KG	6	8/6/2021 17:39
AROCLOR-1254	ND		2.3	MG/KG	6	8/6/2021 17:39
AROCLOR-1260	ND		2.3	MG/KG	6	8/6/2021 17:39
Surr: TETRACHLORO-M-XYLENE	83		69-129	%REC	6	8/6/2021 17:39
Surr: DECACHLOROBIPHENYL	105		55-135	%REC	6	8/6/2021 17:39

SAMPLE SUMMARY REPORT

Client:	Earth Services & Ab	atement				Date: 09-A	ug-21
Project:	215WY001 Cheyenr	ne RS				Work Order: 2107	408
Sample ID:	CHE-CNW11097-14	40721-001P; Black	k/Brown Caul	k, door		Lab ID: 2107	408-1
Legal Location:						Matrix: SOL	D
Collection Date:	7/14/2021 10:00				Per	cent Moisture:	
Analyses		Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Explanation of (Jualifiers						
Radiochemistry:							

MDC.

M3 - The requested MDC was not met, but the reported

activity is greater than the reported MDC.

P - LCS, Matrix Spike Recovery within control limits.

NC - Not Calculated for duplicate results less than 5 times MDC

B3 - Analyte concentration greater than MDC but less than Requested

N - Matrix Spike Recovery outside control limits

B - Analyte concentration greater than MDC.

L - LCS Recovery below lower control limit.

H - LCS Recovery above upper control limit.

- "Report Limit" is the MDC

U or ND - Result is less than the sample specific MDC.

Y1 - Chemical Yield is in control at 100-110%. Quantitative yield is assumed.

- Y2 Chemical Yield outside default limits.
- W DER is greater than Warning Limit of 1.42
- * Aliquot Basis is 'As Received' while the Report Basis is 'Drv Weight'.
- # Aliquot Basis is 'Dry Weight' while the Report Basis is 'As Received'.
- G Sample density differs by more than 15% of LCS density.
- D DER is greater than Control Limit
- M Requested MDC not met.

Inorganics:

B - Result is less than the requested reporting limit but greater than the instrument method detection limit (MDL).

U or ND - Indicates that the compound was analyzed for but not detected.

E - The reported value is estimated because of the presence of interference. An explanatory note may be included in the narrative.

- M Duplicate injection precision was not met.
- N Spiked sample recovery not within control limits. A post spike is analyzed for all ICP analyses when the matrix spike and or spike duplicate fail and the native sample concentration is less than four times the spike added concentration.
- Z Spiked recovery not within control limits. An explanatory note may be included in the narrative.
- * Duplicate analysis (relative percent difference) not within control limits.
- S SAR value is estimated as one or more analytes used in the calculation were not detected above the detection limit.

Organics:

U or ND - Indicates that the compound was analyzed for but not detected.

- B Analyte is detected in the associated method blank as well as in the sample. It indicates probable blank contamination and warns the data user.
- E Analyte concentration exceeds the upper level of the calibration range.
- J Estimated value. The result is less than the reporting limit but greater than the instrument method detection limit (MDL).
- A A tentatively identified compound is a suspected aldol-condensation product.
- X The analyte was diluted below an accurate quantitation level.
- * The spike recovery is equal to or outside the control criteria used.
- + The relative percent difference (RPD) equals or exceeds the control criteria.
- G A pattern resembling gasoline was detected in this sample.
- D A pattern resembling diesel was detected in this sample.
- M A pattern resembling motor oil was detected in this sample.
- C A pattern resembling crude oil was detected in this sample.
- 4 A pattern resembling JP-4 was detected in this sample.
- 5 A pattern resembling JP-5 was detected in this sample.
- H Indicates that the fuel pattern was in the heavier end of the retention time window for the analyte of interest.
- L Indicates that the fuel pattern was in the lighter end of the retention time window for the analyte of interest.
- Z This flag indicates that a significant fraction of the reported result did not resemble the patterns of any of the following petroleum hydrocarbon products: gasoline
- JP-8
- JF-0 - diesel
- mineral spirits
- motor oil
- Stoddard solvent

ALS -- Fort Collins LIMS Version: 7.020

Client:	Earth Services & Abatement
Work Order:	2107408
Project:	215WY001 Cheyenne RS

QC BATCH REPORT

Batch ID: EX210730-3-1	Instrument ID: Pes	st-1		Method: S	W8082						
LCS Sample ID: EX210730-	3			Units: MG/KG			Analysis Date: 8/6/2021 14:13				
Client ID:	Run IE	D: PT210806-1	1				Prep Date: 7/3	0/2021	DF:	1	
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qua
AROCLOR-1016	0.133	0.0333	0.133		99	80-120				50	
AROCLOR-1260	0.137	0.0333	0.133		103	80-125				50	;
Surr: TETRACHLORO-M-XYLENE	0.0152		0.0167		91	69-129					
Surr: DECACHLOROBIPHENYL	0.0187		0.0167		112	55-135					
LCSD Sample ID: EX210730-	3			U	nits: MG/K	G	Analy	sis Date: 8	/6/2021	14:32	
Client ID:	Run IE	D: PT210806-1	1				Prep Date: 7/3	0/2021	DF:	1	
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qua
AROCLOR-1016	0.125	0.0333	0.133		94	80-120		0.133	6	50	
AROCLOR-1260	0.131	0.0333	0.133		99	80-125		0.137	4	50	
Surr: TETRACHLORO-M-XYLENE	0.015		0.0167		90	69-129			1		
Surr: DECACHLOROBIPHENYL	0.0178		0.0167		107	55-135			5		
MB Sample ID: EX210730-	3			U	nits: MG/K	G	Analy	sis Date: 8	/6/2021	11:25	
Client ID:	Run IE	D: PT210806-1	1				Prep Date: 7/3	0/2021	DF:	1	
Analyte	Result	ReportLimit									Qua
AROCLOR-1016	ND	0.033									
AROCLOR-1221	ND	0.067									
AROCLOR-1232	ND	0.033									
AROCLOR-1242	ND	0.033									
AROCLOR-1248	ND	0.033									
AROCLOR-1254	ND	0.033									
AROCLOR-1260	ND	0.033									
Surr: TETRACHLORO-M-XYLENE	0.0158				95	69-129					

The following samples were analyzed in this batch:

2107408-1

Appendix 3 - Modified Sawyer Algorithm

Report Date	08/10/2021
Rolling Stock Type	Caboose
Rolling Stock No	CNW 11097

Rating

SAWYER ALGORITHM PRIORITY Asbestos Potential Exposure and Priority Level Algorithm Asset Number CNW 11097 **Breakers** Exposure Area Asbestos Containing Material Black bakelite CHE-CNW11097-140721-001 thru 003 Sample Number Size NA Quantity 0.5 SF MATERIAL CONDITION (MC) 0 0 =No damage, excellent condition 1 =Very minor damage, no visible debris 2 =Damage is evident, small area 3 =Damage is easily seen, some debris 4 =Damage is widespread, debris is common 5 =Most or all material is damaged, hanging, and / or found as debris throughout the area **BUILDING AGE (BA)** 1 =>30 years old 0 =15 - 30 years old -1 =<15 years old MATERIAL TYPE Pipe Covering (PC) 1 =MAG/CAL Silicate NA -1 =Air Cell / paper Ceiling Plasters or Fireproofing (CP) NA 1 =Cementitious (Monocoat) 0 =Standard 1 ="Cotton Candy" texture WATER DAMAGE (WD) 0 0 =No water damage 1 =Small amount of damage can be seen; damage is localized rather than widespread 2 =Good deal of water damage; widespread ROOF CHARACTERISTICS (RC) -0.5 -0.5 =Sloped or Hipped -0.5 =Metal or Concrete 0.5 =Flat or Built-up EXPOSED SURFACE AREA (ESA) 4 0 =Material behind a permanent enclosure 2 =Material behind a lay-in ceiling or in open tunnel 4 =Material is exposed ACCESSIBILITY (AC) л 0 =Totally inaccessible 1 =Can only reach with hands, ie. pipe chase 2 =An open tunnel or above a drop ceiling 3 =Exposed overall, but can't reach, ie. >10' high 4 =Material is out in the open and <10' high ACTIVITY AND MOVEMENT (A/M) 2 0 =No occupants enter the area 1 =Area is accessed infrequently 2 =Area is accessed frequently WORK ENVIRONMENT (WE) 0.5 -0.5 =Sedentary 0.5 =Non-sedentary SOUND AND MECHANICAL VIBRATIONS (SMV) 0.5 0.5 =Frequent or Constant -0.5 =No recognizable vibration AIR - PLENUM / AIR STREAM (AP) 1 0 =No air plenum or air flow 1 =Air plenum or air flow exists VELOCITY (if Air Plenum = 1) (VEL) -0.25 0.25 =Recognizable by human feeling -0.25 =Non-recognizable by human feeling FLOW (if Air Plenum = 1) (FL) -0.25 =Constant, steady stream NA 0.25 =Impact, gusty flow FRIABILITY (F) 1 1 =Very hard to crumble under hand pressure 2 = Will crumble under a little hand pressure 3 =Extremely easy to crumble under light pressure ASBESTOS CONTENT (ASB) 1 0 =None <1% 1 =1% to 10% Asbestos 2 =11% to 50% Asbestos 3 =51% to 100% Asbestos Exposure Value 12.25

4



www.esasite.com

Specializing in environmental services and demolition

August 10th, 2021

Union Pacific Railroad Asbestos Program c/o GHD 3807 South 148th Street Omaha, NE 68144

RE: WY, Cheyenne, Rollingstock CNW 11111, Requested NESHAP Inspection Earth Services & Abatement Project Number: 215WY001

To Whom It May Concern,

Please find our NESHAP report for the above-mentioned requested inspection. Earth Services & Abatement's Joseph Kulm inspected UPRR railcar CNW 11111 for suspect asbestos-, lead-, and PCB-containing materials. The inspection work took place on July 15th, 2021.

No previous reports were provided for review prior to inspection.

Refer to the report for a summary of this inspection, including inspection/lab results, inspection photographs, and schematics.

If you have any questions or need anything else for this project, please do not hesitate to contact us.

Conducted by,

Jospeh Kulm Inspector Earth Services & Abatement

Reviewed by,

Syplie

Robert Szynskie Program Director Earth Services & Abatement Robert.szynskie@esasite.com Cell – 720-206-9238

\bigcap	UNION PACIFIC	R	Rolling Stock	Asbe	estos]	Inspe	ction	Report		
	WW						Inspec	tion Start Date	07/15/2021	
	BUILDING AMERICA ^{**} Inspection Type						Inspec	ction End Date	07/15/2021	
	X Initial Inspection		Reinspection	X NES	SHAP Ins	pection	Repor	t Date	08/10/2021	
	Inspection Compa	any								
	Company Earth S	ervice	es & Abatement		License	e No	16608			
	Address 6700 E 50)th Av	e		City	Comm	erce City			
					State	СО	Z	lip 80022		
	Inspector Informa	tion								
	First Name Joseph			Las	t Name	Kulm				
	License Type AHE	RA	License No C	6LEMQ	A0R3U		Lice	nse State		
	Asset Information)								
	Rolling Stock Type	Cab	oose							
	Rolling Stock No	CN	V 11111		Car Nan	ne .	CNW 1	1111		
	Yard Name	Che	yenne		Subdivis	ion	Unknow	'n		
	Address	Eas	t Union Pacific Ave.		Mile Pos	st .	Unknow	'n		
	City	Che	yenne		Latitude		41.1296	88°		
	State	WY			Longitud	le .	-104.81	4858°		
	Zip Code	820	01							
	Key Contacts									
	Name		Phone Number	Comp	any			Role/Responsibili	ty	
	Kulm,Joseph		303-991-1280	Earth	Services	& Abate	ment	Inspector		
	Szynskie,Robert		303-991-1280	Earth	Services	& Abate	ment	Program Director		
	Dickens,Edgar		307-214-3545	UPRR	2			Local Contact		
	Inspection Limita	tions	3							
	was limited by the us	se of l le. If a	ade to conduct a comp hand-tools and some a additional suspect mat be required.	additiona	I suspect	materia	ls may be	e present in areas n	ot	

		Rolling Stoc	ek Asbestos Ins	spection Repo	Rolling St	eport Date tock Type	08/10/2021 Caboose CNW 1111	
	AMERICA [™]				Kulling	Stock No		I
	estos Results							
ACM Pr			ACM Components. ¹		_			
Total Nu Notes	umber of Materials Containin	g <= 1% Asbestos.	0					
Pl	ease note the material descr etails. The fiberboard identifie Asbestos Sam	d in samples CHE-CNW1						
Sample Date	Sample ID	Description	Location	Asbestos Result ²	ACM Category	Friable	Quantity	Modified Algorithm Number
07/15/2021	CHE-CNW11111-150721 -001 thru 003	Black bakelite	Breaker box	6%, Chrysotile	Category II	No	0.5 sq. ft.	4
07/15/2021	CHE-CNW11111-150721 -004 thru 006	White/gray sealant	Interior trim	Not Detected	N/A	N/A	200 LF	N/A
07/15/2021	CHE-CNW11111-150721 -007 thru 009	Yellow mastic	Interior wall board and flooring	Not Detected	N/A	N/A	1100 sq. ft.	N/A
07/15/2021	CHE-CNW11111-150721 -010 thru 012	Gray caulk	Exterior windows	Not Detected	N/A	N/A	32 LF	N/A
07/15/2021	CHE-CNW11111-150721 -013 thru 015	Black brake pads	Exterior wheels	Not Detected	N/A	N/A	4 sq. ft.	N/A

1 "ACM Present" is defined as material with >1% asbestos, except in California, where Asbestos-Containing Construction Material (ACCM) is defined as >0.1% asbestos.

2 For samples collected in sets, only the highest result is reported. Some of the collected samples may not have been analyzed. See the attached laboratory report for additional details.

3 "Lead Present" and "Positive" is defined as paint with $\geq 0.5\%$ lead.

4 "PCBs Present" and "Positive" is defined as caulk with \geq 50 ppm PCBs.

Lead Preser Notes	nsed Paint Results	Total Numb	per of Positive Components. ³	3				
Sample	Paint Sampl	es					ead	
Date	Sample IE)	Description		Location			Condition
07/15/2021	CHE-CNW11111-15072	21-001L	Gray		Interior throughout	0.51	% F	Poor
07/15/2021	CHE-CNW11111-15072	21-002L	Yellow		Exterior car 5		5.1 % Po	
07/15/2021	CHE-CNW11111-15072	21-003L	Green		Exterior handrails and trim C		% F	Poor
07/15/2021	CHE-CNW11111-15072	21-004L	Black		Exterior undercarriage 0.54 %		% F	Poor
PCBs Prese	nt ⁴ No PCBs Samples		per of Positive Components. ⁴	0				
Sample	Sample ID		Description	Loca	Location		PCBs Result	Quan
Date	CHE-CNW11111-150721-00)1 Gray ca	ulk	Exterior windows			Not Detected	32 LF
•	P	,						

Mold Results Suspect Mold Present Notes	BUILDING AMERICA"	Rolling Stock Asbestos Inspection Report Report Date Rolling Stock Type Rolling Stock No	Caboose
	Suspect Mold Present	<u>No</u>	

1 "ACM Present" is defined as material with >1% asbestos, except in California, where Asbestos-Containing Construction Material (ACCM) is defined as >0.1% asbestos.

2 For samples collected in sets, only the highest result is reported. Some of the collected samples may not have been analyzed. See the attached laboratory report for additional details.

3 "Lead Present" and "Positive" is defined as paint with $\geq 0.5\%$ lead.

4 "PCBs Present" and "Positive" is defined as caulk with \geq 50 ppm PCBs.



Rolling Stock Asbestos Inspection Report Asset Photos Report Date 08/10/2021

BUILDING AMERICA



Railcar ID marker



View of railcar, looking south

Report Date _____ Rolling Stock Type __C

e Caboose



View of railcar, looking south



Rolling Stock Asbestos Inspection Report Sample Photos Report Date 08/10/2021

BUILDING AMERICA**



CHE-CNW11111-150721-001 thru 003, 6% Asbestos, Black bakelite



CHE-CNW11111-150721-004 thru 006, Asbestos Not Detected, White/gray sealant



CHE-CNW11111-150721-007 thru 009, Asbestos Not Detected, Yellow mastic

Rolling Stock Type Caboose



CHE-CNW11111-150721-001 thru 003, 6% Asbestos, Black bakelite



CHE-CNW11111-150721-004 thru 006, Asbestos Not Detected, White/gray sealant



CHE-CNW11111-150721-007 thru 009, Asbestos Not Detected, Yellow mastic



Rolling Stock Asbestos Inspection Report Sample Photos Report Date 08/10/2021

BUILDING AMERICA**



CHE-CNW11111-150721-010 thru 012, Asbestos Not Detected, Gray caulk



CHE-CNW11111-150721-013 thru 015, Asbestos Not Detected, Black brake pads



CHE-CNW11111-150721-001L, 0.51% Lead, Gray

Rolling Stock Type

Caboose



CHE-CNW11111-150721-010 thru 012, Asbestos Not Detected, Gray caulk



CHE-CNW11111-150721-013 thru 015, Asbestos Not Detected, Black brake pads



CHE-CNW11111-150721-001L, 0.51% Lead, Gray



Rolling Stock Asbestos Inspection Report Sample Photos Report Date 08/10/2021

BUILDING AMERICA"



CHE-CNW11111-150721-002L, 5.1% Lead, Yellow



CHE-CNW11111-150721-003L, 0.27% Lead, Green



CHE-CNW11111-150721-004L, 0.54% Lead, Black

-Rolling Stock Type

e Caboose

Rolling Stock No CNW 11111



CHE-CNW11111-150721-002L, 5.1% Lead, Yellow



CHE-CNW11111-150721-003L, 0.27% Lead, Green



CHE-CNW11111-150721-004L, 0.54% Lead, Black



Rolling Stock Asbestos Inspection Report Sample Photos Report Date 08/10/2021

CHE-CNW11111-150721-001P, PCB Not Detected, Gray caulk

Rolling Stock Type

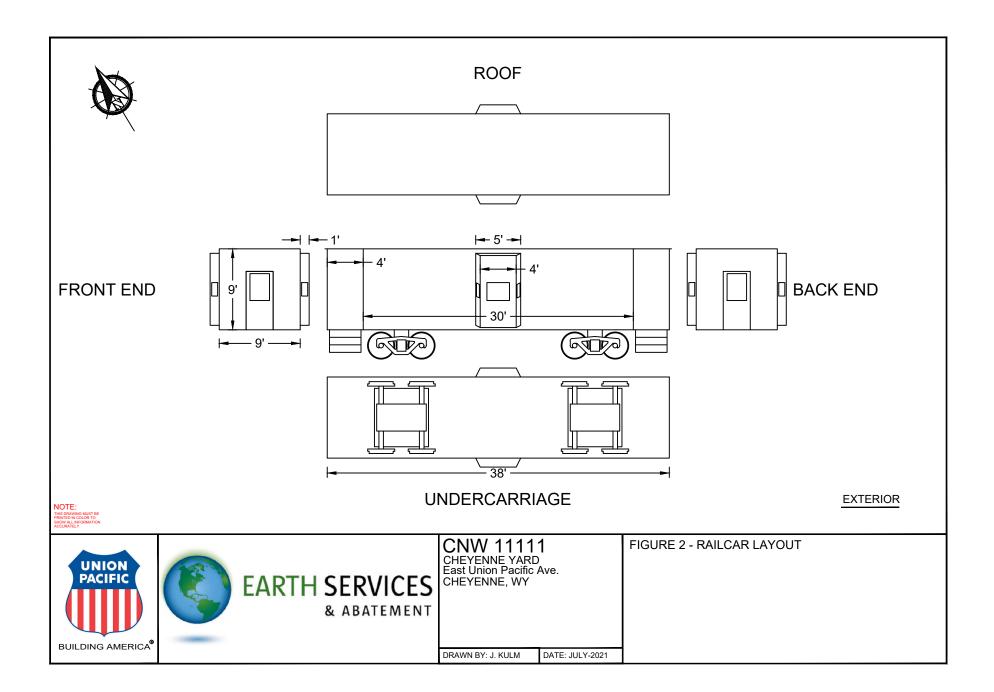
Caboose

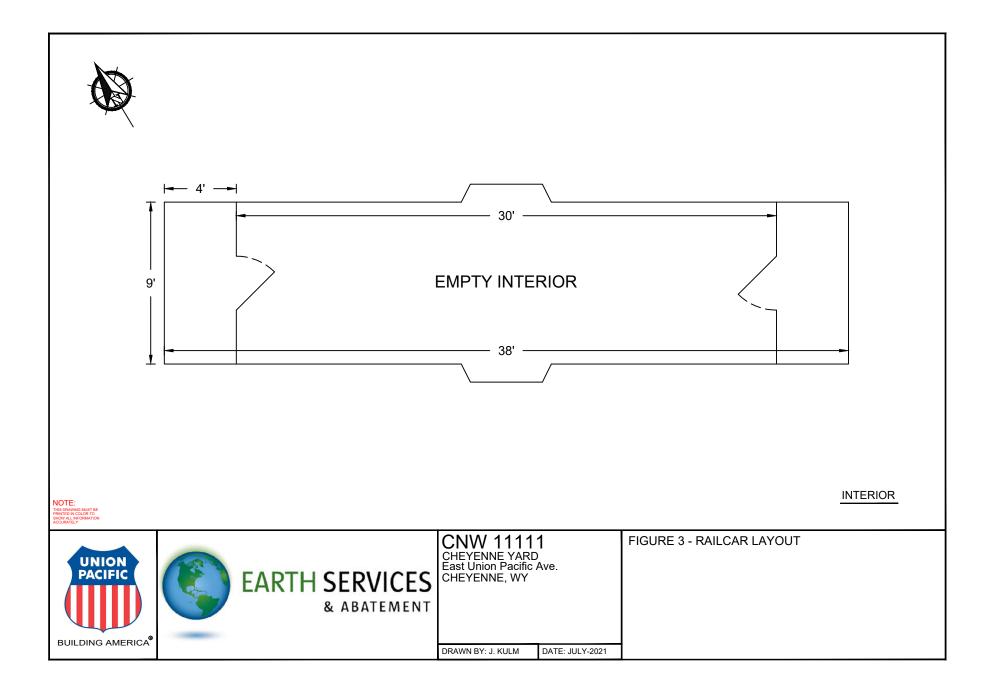
CHE-CNW11111-150721-001P, PCB Not Detected, Gray caulk

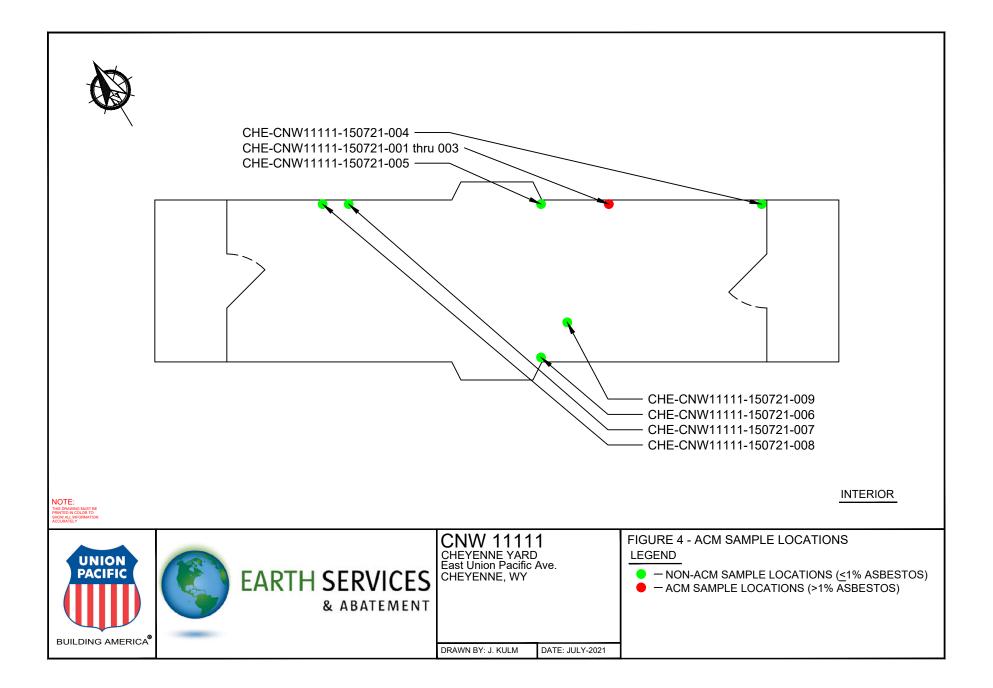
Appendix 1 - Figures

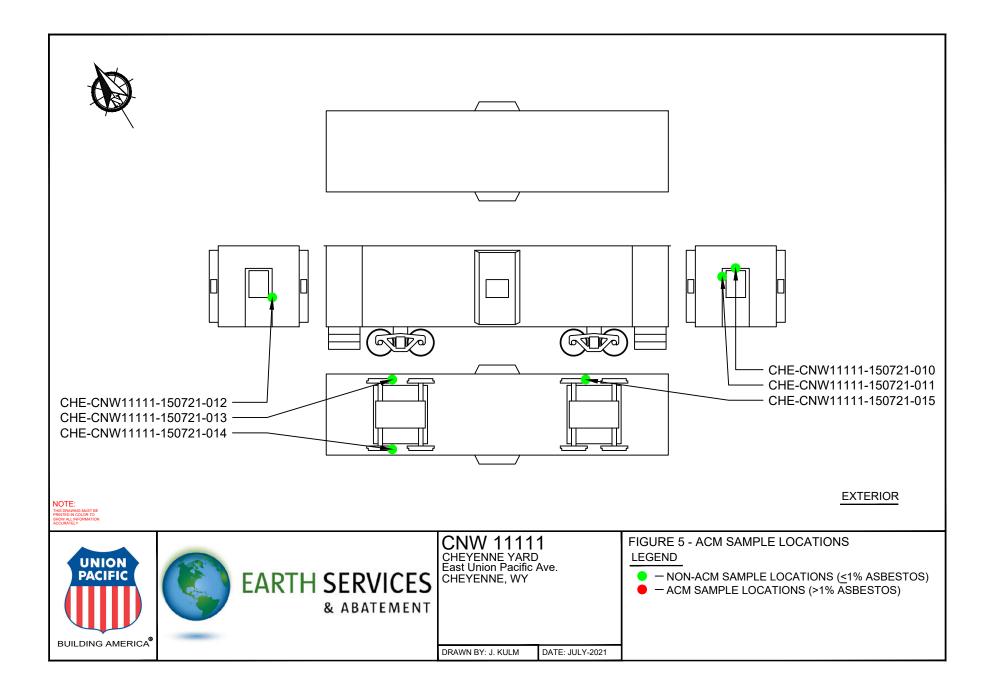
Report Date08/10/2021Rolling Stock TypeCabooseRolling Stock NoCNW 11111

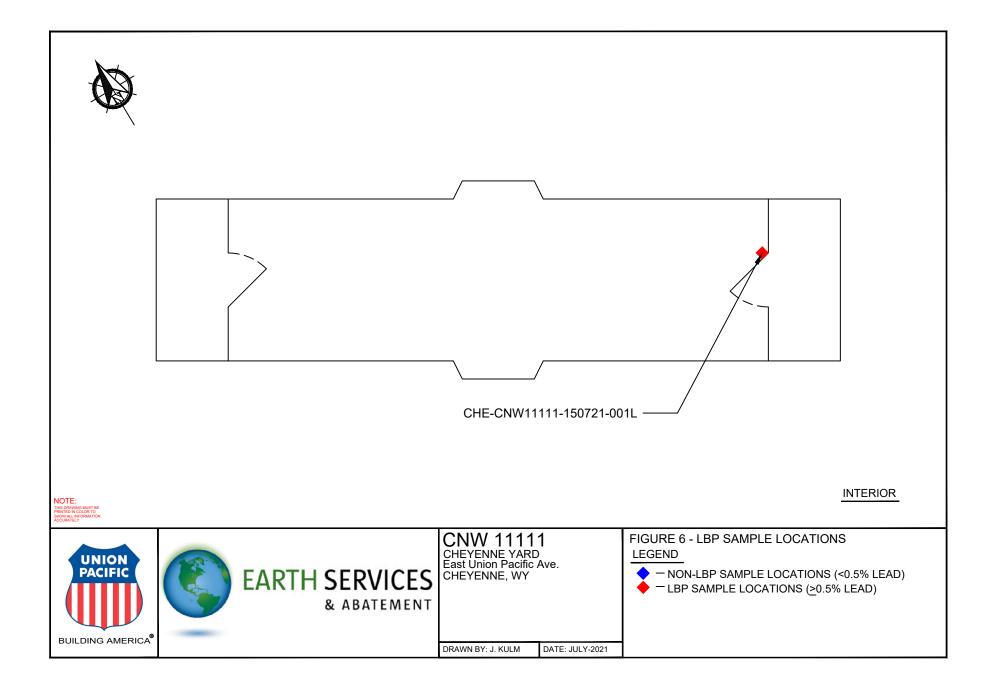


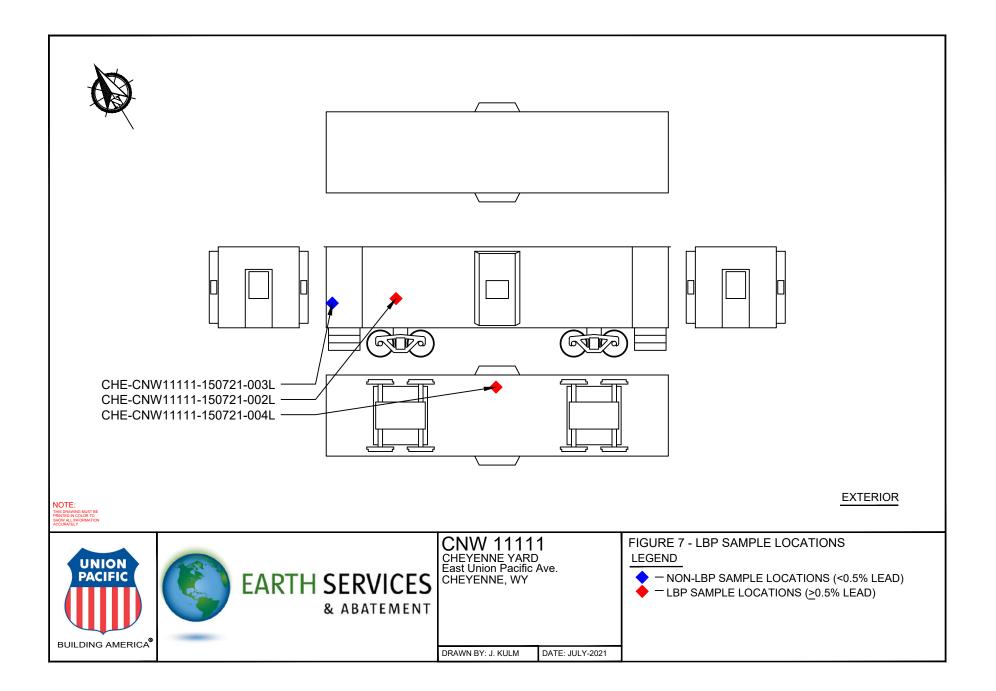


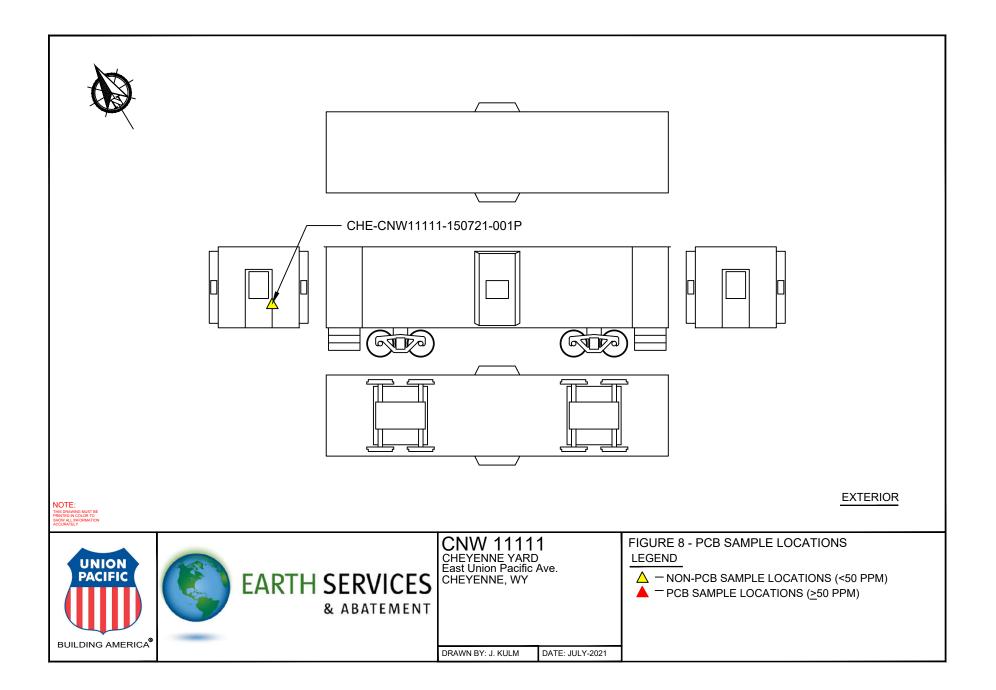


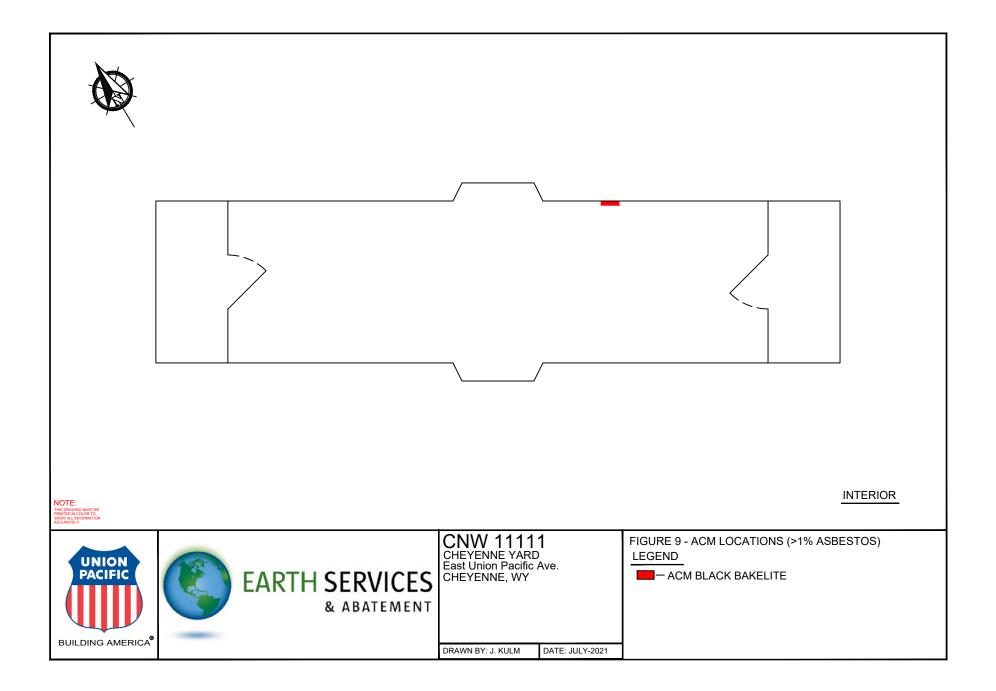












Appendix 2 - Lab Reports and Chain of Custody Receipts

Report Date	08/10/2021
Rolling Stock Type	Caboose
Rolling Stock No	CNW 11111

Eurofins J3 Resources, Inc.

3113 Red Bluff Road, Pasadena, TX 77503 Phone: (713) 290-0223 - Fax: (713) 290-0248 *J3Resources.com*





Bulk Asbestos Fiber Analysis by Polarized Light Microscopy (PLM) Appx E Sub E 40 CFR 763 / EPA 600/R-93/116

Joseph Kulm Earth Services & Abatement, Inc. 6700 E. 50th Avenue Commerce City CO 80022

Juliann Johnson

Analyst

NVLAP Lab Code: 600120-0

 Order #:
 JH21129235

 Project #:
 215WY001

 Date Received:
 20-Jul-2021

 Date Analyzed:
 22-Jul-2021

 Date Reported:
 22-Jul-2021

CNW 11111 WY Rollingstock Inspections

Sample ID #	Sample Description	Asbestos Constituents		Non-Asbestos Constituents	
CHE-CNW11111- 150721-001	Bakelite, Black, Homogeneous	Chrysotile	6%	Non-Fibrous Material	94%
CHE-CNW11111- 150721-002	Bakelite, *Not analyzed per client reques	st			
CHE-CNW11111- 150721-003	Bakelite, *Not analyzed per client reques	st			
CHE-CNW11111- 150721-004	Sealant, White/ Gray, Homogeneous	None Detected		Non-Fibrous Material	100%
CHE-CNW11111- 150721-005	Sealant, White/ Gray, Homogeneous	None Detected		Non-Fibrous Material	100%
CHE-CNW11111- 150721-006	Sealant, White/ Gray, Homogeneous	None Detected		Non-Fibrous Material	100%
CHE-CNW11111- 150721-007	LAYER 1 Fiberboard, Brown, Homogeneous	None Detected		Cellulose Fiber Non-Fibrous Material	90% 10%
	LAYER 2 Mastic, Yellow/ Black, Homogeneous	None Detected		Non-Fibrous Material	100%
CHE-CNW11111- 150721-008	LAYER 1 Fiberboard, Brown, Homogeneous	None Detected		Cellulose Fiber Non-Fibrous Material	90% 10%
	LAYER 2 Mastic, Yellow/ Black, Homogeneous	None Detected		Non-Fibrous Material	100%
CHE-CNW11111- 150721-009	LAYER 1 Fiberboard, Brown, Homogeneous	None Detected		Cellulose Fiber Non-Fibrous Material	90% 10%
	LAYER 2 Mastic, Yellow/ Black, Homogeneous	None Detected		Non-Fibrous Material	100%

Scott Ward, Ph.D. Lab Director

TDSHS License: 30-0457

Page 1 of 2

These results apply to the sample(s) as received. This report is for the exclusive use of the addressed client and shall not be reproduced except in full, without written approval by Eurofins J3 Resources, Inc. (EJ3). Samples are analyzed according to the methods listed above and are subject to the inherent limitations of PLM and interference of matrix components. Reporting limit for the above method is a function of the quantity of sample analyzed, matrix interference, sample preparation, fiber size, and distribution. Asbestos may be detected in concentrations of <1% by area if sufficient material is analyzed. EJ3 recommends TEM confirmation of soils, verniculite and non-friable organically bound materials (NOB) reported as None Detected or < 1% Asbestos by PLM. All samples received in god condition unless otherwise noted. This report shall not be used to claim product approval, certification, or endorsement by NVLAP, NIST, or any agency of the federal government.

AIHA-LAP, LLC Lab ID: 157714

Eurofins J3 Resources, Inc.

3113 Red Bluff Road, Pasadena, TX 77503 Phone: (713) 290-0223 - Fax: (713) 290-0248 *J3Resources.com*





Bulk Asbestos Fiber Analysis by Polarized Light Microscopy (PLM) Appx E Sub E 40 CFR 763 / EPA 600/R-93/116

Joseph Kulm Earth Services & Abatement, Inc. 6700 E. 50th Avenue Commerce City CO 80022
 Order #:
 JH21129235

 Project #:
 215WY001

 Date Received:
 20-Jul-2021

 Date Analyzed:
 22-Jul-2021

 Date Reported:
 22-Jul-2021

CNW 11111 WY Rollingstock Inspections

Sample ID #	Sample Description	Asbestos Constituents	Non-Asbestos Constituents	
CHE-CNW11111- 150721-010	Caulking, Black, Homogeneous	None Detected	Non-Fibrous Material	100%
CHE-CNW11111- 150721-011	Caulking, Black, Homogeneous	None Detected	Non-Fibrous Material	100%
CHE-CNW11111- 150721-012	Caulking, Black, Homogeneous	None Detected	Non-Fibrous Material	100%
CHE-CNW11111- 150721-013	Brakes, Black, Homogeneous	None Detected	Fibrous Glass Non-Fibrous Material	2% 98%
CHE-CNW11111- 150721-014	Brakes, Black, Homogeneous	None Detected	Fibrous Glass Non-Fibrous Material	2% 98%
CHE-CNW11111- 150721-015	Brakes, Black, Homogeneous	None Detected	Fibrous Glass Non-Fibrous Material	2% 98%

Scott Ward, Ph.D. Lab Director

Juliann Johnson

Analyst

These results apply to the sample(s) as received. This report is for the exclusive use of the addressed client and shall not be reproduced except in full, without written approval by Eurofins J3 Resources, Inc. (EJ3). Samples are analyzed according to the methods listed above and are subject to the inherent limitations of PLM and interference of matrix components. Reporting limit for the above method is a function of the quantity of sample analyzed, matrix interference, sample preparation, fiber size, and distribution. Asbestos may be detected in concentrations of <1% by area if sufficient material is analyzed. EJ3 recommends TEM confirmation of soils, verniculite and non-friable organically bound materials (NOB) reported as None Detected or < 1% Asbestos by PLM. All samples received in good condition unless otherwise noted. This report shall not be used to claim product approval, certification, or endorsement by NVLAP, NIST, or any agency of the federal government.

Revision #v7/MF Revision Date: 3/09/2020

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J3 Resources

Open	Lab	Fee
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	·							
Submitter Name:	oseph Kulm				Bill to:	Same		
Company: E	arth Servic	əs & Ab	atement, llc		Address:			
Address: 67	700 E 50th A	٩ve						
					City/State			Zip:
Citureter Comm	erce City , (CO	Zip: ⁸⁰⁰²	2	-	15WY001		
City/State: Comm					nformati			
Project Name way put	<u>er et en et en et en en et e</u>			Jeeri		ct Manager: Ama	nda Wozał	<u> </u>
Project Name: WY Rol	_	-	ns					
Project #: 215WY001						hone – Office/Ce		
Reports - Email Addres	ss: amanda	.wozabi	@esasite.com,	joseph	.kulm@es	asite.com, robert.	.szynskie@	esasite.com
Invoice - Email Addres	s: same				Notif	ication By: Em	ail: 🔳 👘	Verbal: D
Special Instructions: 4	00 point-cou	unt sam	ples with detec	tions u	p to 5% as	bestos with GR, a	as needed	
	1	1	[urnaround]	Times	– Please	e Select One		
Emergency* 🛛 1 Day 🖾 2 D						3 Day		5 Day 🛛
				ASB	ESTOS			
PLM - Bulk	PCM -	Air	TEM - Air	TEN	A - Bulk	TEM - Water	TEM - Du	UST TEM/PLM Soil/Vermiculite/Ore
 EPA 600/R-93/116 Visual Estimation (<1% 400 Point Count 0.25% 1,000 Point Count 0.1% Gravimetric Reduction Matrix Reduction (+/-) NIOSH 9002 OSHA ID-191 	O ISO 867	97201 2 2-160	 ○ AHERA ○ NIOSH 7402 ○ ASTM D6281 ○ ISO 10312 ○ ISO 13794 	O Matri Redu O Quali	iction (<1%) x iction (+/-) itative (+/-) p Mount	 ○ EPA 100.2 Drinking Water ○ >10 µm fibers ○ ≥0.5 µm fibers ○ EPA 100.2 Effluent / WW Received on ice: ○ Yes ○ No Temp: 	 ASTM D5 Microvac ASTM D6 Wipe 600/J-93/ Carpet - E Bulk Dust Qualitative 	480 • ASTM 7521-TEM (<1% • CARB 435-Modified • Soil – PLM Only (+/-) • Vermiculite - TEM (+/-) • Vermiculite-Cincinnati
	· · ·	I	METALS	!			SILI	CA/PARTICULATES
				<u> </u>		and the second		
Flame AA	<u> </u>	Gra	phite Furnace / LEAD	AA -		ICP	X-Ray	Diffraction / Gravimetric
Flame AA O Lead in Paint - SW846 74 O Lead in Air NIOSH 7082 O Lead in Wipes - SW846 O Lead in Soil - SW846 742 O TCLP - SW846-1311/601	2 7420/3050B 20/3050B	O Drink O Wast O Soil/S	phite Furnace A LEAD ing Water – EPA 2 water – SW846-7 Sludge – SW846-7 NIOSH 7105	200.9 7421	 ○ Wipe/Soil ○ Effluent – 	ICP in Air – NIOSH 7300 – SW846-6010B SW846-6010B Fume – NIOSH 7300M	Respin NIOSH O NIOSH	Diffraction / Gravimetric rableCrystallineSilica 1 7500 / OSHA 142 1 0500 – Total Particulates 1 0600 – Respirable Particulates
 C Lead in Paint - SW846 74 C Lead in Air - NIOSH 7082 C Lead in Wipes - SW846 742 C Lead in Soil - SW846 742 	2 7420/3050B 20/3050B 10B	O Drink O Wast O Soil/S O Air –	LEAD ing Water – EPA 2 sewater – SW846-7 Sludge – SW846-7 NIOSH 7105	200.9 7421	 ○ Wipe/Soil ○ Effluent – 	in Air – NIOSH 7300 – SW846-6010B SW846-6010B Fume – NIOSH 7300M		rableCrystallineSilica 1 7500 / OSHA 142 1 0500 – Total Particulates
 Lead in Paint - SW846 74 Lead in Air - NIOSH 7082 Lead in Wipes - SW846 74 Lead in Soil - SW846 742 TCLP - SW846-1311/601 	2 7420/3050B 20/3050B 10B	O Drink O Wast O Soil/S O Air –	LEAD ing Water – EPA 2 sewater – SW846-7 Sludge – SW846-7 NIOSH 7105	200.9 7421 '421	 Wipe/Soil Effluent – Welding F 	in Air – NIOSH 7300 – SW846-6010B SW846-6010B Fume – NIOSH 7300M	• Respin NIOSI • NIOSI • NIOSI • NIOSI	rableCrystallineSilica 1 7500 / OSHA 142 1 0500 – Total Particulates 1 0600 – Respirable Particulates
 Lead in Paint - SW846 74 Lead in Air - NIOSH 7082 Lead in Wipes - SW846 74 Lead in Soil - SW846 742 TCLP - SW846-1311/601 	2 7420/3050B 20/3050B 10B	O Drink O Wast O Soil/S O Air –	LEAD ing Water – EPA 2 sewater – SW846-7 Sludge – SW846-7 NIOSH 7105	200.9 7421 '421	O Wipe/Soil O Effluent – O Welding F	in Air – NIOSH 7300 – SW846-6010B SW846-6010B Fume – NIOSH 7300M	Respin NIOSE ONIOSE ONIOSE VES	rableCrystallineSilica 1 7500 / OSHA 142 1 0500 – Total Particulates 1 0600 – Respirable Particulates
 Lead in Paint - SW846 74 Lead in Air - NIOSH 7082 Lead in Wipes - SW846 Lead in Soil - SW846 742 TCLP - SW846-1311/601 Total Number of S 	2 7420/3050B 20/3050B 10B	O Drink O Wast O Soil/S O Air –	LEAD ing Water – EPA 2 sewater – SW846-7 Sludge – SW846-7 NIOSH 7105	200.9 7421 '421	O Wipe/Soil O Effluent – O Welding F	in Air – NIOSH 7300 – SW846-6010B SW846-6010B ume – NIOSH 7300M Stop:		rableCrystallineSilica 17500 / OSHA 142 10500 Total Particulates 10600 Respirable Particulates
 Lead in Paint - SW846 7 Lead in Air - NIOSH 7082 Lead in Wipes - SW846 742 Lead in Soil - SW846 742 TCLP - SW846-1311/601 Total Number of S Relinguished By: 	2 7420/3050B 20/3050B 10B	O Drink O Wast O Soil/S O Air –	LEAD ing Water – EPA 2 sewater – SW846-7 Sludge – SW846-7 NIOSH 7105	200.9 7421 '421	O Wipe/Soil O Effluent – O Welding F	in Air – NIOSH 7300 – SW846-6010B SW846-6010B Fume – NIOSH 7300M Stop: •	$\frac{\circ}{NIOSF}$ $\frac{\circ}{\circ} NIOSF$ $\frac{\circ}{2} NIOSF$ $\frac{\circ}{2} T$ $\frac{7}{19}$ $\frac{1}{2}$	rableCrystallineSilica 1 7500 / OSHA 142 1 0500 – Total Particulates 1 0600 – Respirable Particulates D NO Time:

Eurofins J3 Resources, Inc. + 6110 West 34th Street + Houston, Texas 77092 + tel: 713-290-0221 + fax: 713-290-0248

Eurofins J3 Resources, Inc. + 3113 Red Bluff Road + Pasadena, Texas 77503 + tel: 713-290-0223 + fax: 713-290-0248

Revision #v7/MF Revision Date: 3/09/2020

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J3 Resources

Project Name <u>WY Rollingstock Inspections</u> Project Number <u>215WY001 - CNH</u>

SAMPLE IDENTIFICATION

Page ____ of ____

SAMPLE NUMBER	SAMPLE LOCATION / MATERIAL	VOLUME/CONDITION
CHE-CNW11111-150721-001	Black bakelite	
CHE-CNW11111-150721-002	Int. electrical box	
CHE-CNW11111-150721-003		
CHE-CNW11111-150721-004	White/gray sealant	
CHE-CNW11111-150721-005	Int. trim	- <u>-</u>
CHE-CNW11111-150721-006		
CHE-CNW11111-150721-007	Yellow mastic	
CHE-CNW11111-150721-008	Int. wallboards and flooring	
CHE-CNW11111-150721-009		· •
CHE-CNW11111-150721-010	Gray caulking	<u></u>
CHE-CNW11111-150721-011	Ext. window	
CHE-CNW11111-150721-012		
CHE-CNW11111-150721-013	Black brakes	
CHE-CNW11111-150721-014	. Ext. car wheels	
CHE-CNW11111-150721-015		

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Eurofins J3 Resources, Inc.

3113 Red Bluff Road Pasadena, Texas 77503 Phone: (713) 290-0223 – Fax: (832) 831-5669 *j3resources.com*



J3 Resources

<u>Lead in Paint Performed by</u> Flame AA – USEPA SW846 7420/3050B (Mod.)

Amanda Wozab Earth Services & Abatement, Inc. 6700 E. 50th Avenue Commerce City, CO 80022
 Order #:
 JP211028585

 Project #:
 215WY001

 Receipt Date:
 21-Jul-2021

 Analysis Date:
 22-Jul-2021

 Report Date:
 23-Jul-2021

LEAD LEAD SAMPLE PAINT **CONCENTRATION CONCENTRATION** ID **COLOR** (mg/kg) (%) CHE-CNW11111-150721-001L 0.51% Gray 5100 CHE-CNW11111-150721-002L Yellow 51000 5.1% CHE-CNW11111-150721-003L Green 2700 0.27% CHE-CNW11111-150721-004L 5400 0.54% Black

WY Rollingstock Inspections-CNW 11111

Reporting Limit = 50.0 mg/kg N/A = Not Applicable INS = Insufficient Sample Weight NS = Not Submitted

Analyst: Shervin Aghaabbasi

Scott Ward, Ph.D. Lab Director

This report relates only to the samples submitted. The analysis has been conducted according to the method(s) listed above. Blank corrections are not applied to data unless requested by the customer. This report is for the exclusive use of the addressed customer and shall not be reproduced except in full without written approval by Eurofins J3 Resources, Inc. (EJ3). EJ3 is an EPA NLLAP recognized lab by the AIHA-LAP, LLC ELLAP (Lab ID: 157714). Unless otherwise noted, all quality control samples performed within specifications established by the laboratory. The estimated accuracy is solely based on recovery data from internal laboratory control samples at the 95% confidence interval of the level of concern, derived from a 287 mg/kg lead in paint matrix reference material. The estimated accuracy does not account for uncertainty associated with the sampling process. Accuracy = +/-9%

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J3 Resources

Open Lab Fee

· · · · · · · · · · · · · · · · · · ·										
Submitter Name:	Joseph Kulm		·		Bill to:	Same				
Company:	Earth Service	es & Ab	atement, Ilc		Address:					
Address:	6700 E 50th A	ve	· · · · · · · · · · · · · · · · · · ·							
					City/State):	Z	ip:		
City/State: Cor	nmerce City , (0	Zip: 8002	2	PO #: 2	15WY001				
			and the second sec		nformati	on				
Project Name: WY	Rollingstock In	spection	ns		Projec	ct Manager: Ama	nda Wozab			
Project #: 215WY0	01 - CNW 111 [,]	11			Telep	hone – Office/Ce	II 402-578-6	858		
Reports - Email Add	lress: amanda	wozab	@esasite.com,	josepł	n.kulm@es	asite.com, robert	.szynskie@e	sasite.com		
Invoice - Email Add	ress: same				Noti	ication By: Em	ail: 🖬 V	erbal: 🔲		
Special Instructions	:									
		T	urnaround '	Times	s — Please	e Select One				
Emergency*		Day		2 Day		3 Day	Ø	5 Day 🛛		
				ASB	ESTOS					
PLM - Bulk	PCM -	Air	TEM - Air	TE	Vi - Bulk	TEM - Water	TEM - Dus	st Soil/Vermiculite/Ore		
 400 Point Count 0.2 1,000 Point Count 0 Gravimetric Reduction 	EPA 600/R-93/116 NIOSH 74 Visual Estimation (<1%) ASTM D7 400 Point Count 0.25% ISO 8672 1,000 Point Count 0.1% OSHA ID- Gravimetric Reduction OSHA ID- NIOSH 9002 ISO 8672		○ AHERA ○ NIOSH 7402 ○ ASTM D6281 ○ ISO 10312 ○ ISO 13794	Redu O Matr Redu O Quai	uction (+/-) litative (+/-) op Mount	 ○ EPA 100.2 Drinking Water >10 µm fibers ≥0.5 µm fibers ○ EPA 100.2 Effluent / WW Received on ice: ○ Yes ○ No Temp: 	 ASTM D574 Microvac ASTM D644 Wipe 600/J-93/16 Carpet - EP/ Bulk Dust Qualitative 	O ASTM 7521-TEM (<1%) O CARB 435-Modified O Soil – PLM Only (+/-) O Vermiculite → TEM (+/)		
			METALS				SILIC	A/PARTICULATES		
Flame	AA .	Gra	phite Furnace / LEAD	4A -		ICP	X-Ray [Diffraction / Gravimetric		
 Lead in Paint – SW84 Lead in Air – NIOSH Lead in Wipes – SW8 Lead in Soil – SW846 TCLP – SW846-1311 	O Wast	ting Water – EPA 2 tewater – SW846-7 Sludge – SW846-7 NIOSH 7105	7421	 ○ Wipe/Soil ○ Effluent - 	in Air – NIOSK 7300 I – SW846-6010B SW846-6010B Fume – NIOSH 73001		 RespirableCrystallineSilica NIOSH 7500 / OSHA 142 NIOSH 0500 – Total Particulates NIOSH 0600 – Respirable Particulates 			
Total Number o	of Samples	Submi	itted: 4		Positive	Stop:	YES D	NO NO		
			21	Sigr	natures		<u> </u>			
Relinquished By:	m	\mathcal{F}	<u> </u>		701	Date	alast			
Received By:	<u> </u>			-	<u> () V </u>	Date	- 11 0011			
Relinquished By:						Date		Time:		
Received By: * Emergency TAT requir	es prior lab antificati	on Alleon	nies analyzed outel	de porma	l husiness hore	Date		Time:		

Eurofins J3 Resources, Inc. • 6110 West 34th Street • Houston, Texas 77092 • tel: 713-290-0221 • fax: 713-290-0248 Eurofins J3 Resources, Inc. • 3113 Red Bluff Road • Pasadena, Texas 77503 • tel: 713-290-0223 • fax: 713-290-0248

Page ____ of _

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J3 Resources

Project Name WY Rollingstock Inspections Project Number 215WY001 - CNM

SAMPLE IDENTIFICATION

Page ____ of ____

SAMPLE NUMBER	SAMPLE LOCATION / MATERIAL	VOLUME/CONDITION
CHE-CNW11111-150721-001L	Gray	
	Int.	
CHE-CNW11111-150721-002L	Yellow	
	Ext.	
CHE-CNW11111-150721-003L	Green	
	Handrails & trim	
CHE-CNW11111-150721-004L	Black	
	Undercarriage	
·····		
· · · · · · · · · · · · · · · · · · ·		

Eurofins J3 Resources, Inc. • 6110 West 34th Street • Houston, Texas 77092 • tel: 713-290-0221 • fax: 713-290-0248 Eurofins J3 Resources, Inc. • 3113 Red Bluff Road • Pasadena, Texas 77503 • tel: 713-290-0223 • fax: 713-290-0248 LIMS Version: 7.020

Monday, August 09, 2021

Amanda Wozab Earth Services & Abatement 6700 E. 50th Ave. Commerce City, CO 80022

Re: ALS Workorder: 2107406 Project Name: Cheyenne RS Project Number: 215WY001

Dear Ms. Wozab:

One solid sample was received from Earth Services & Abatement, on 7/21/2021. The sample was scheduled for the following analysis:

PCBs

The results for these analyses are contained in the enclosed reports.

The data contained in the following report have been reviewed and approved by the personnel listed below. In addition, ALS certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental.

Thank you for your confidence in ALS Environmental. Should you have any questions, please call.

Sincerely,

ALS Environmental Katie M. OBrien Project Manager



2107406

PCB:

The sample was analyzed using GC/ECD (electron capture detectors) according to the current revision of SOP 409 based on SW-846 Method 8082.

All acceptance criteria were met.

ALS -- Fort Collins

Sample Number(s) Cross-Reference Table

OrderNum: 2107406 Client Name: Earth Services & Abatement Client Project Name: Cheyenne RS Client Project Number: 215WY001 Client PO Number:

Client Sample Number	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
CHE-CNW11111-150721-001P;	2107406-1		SOLID	15-Jul-21	12:00





ALS Laboratory Group

2	225 Commerce Drive, Fort Collins, Colorado 80524 TF: (800) 443-1511 PH: (970) 490-1511 FX. (970) 490-1522													Form 2	02r8		JRROF	RDER #					
LS)		SAMP	LER	Joseph Kulm			_	1		DA	TE				-			PAGE		1	of		1
PROJECT NAME	Cheyenne RS	811	TE ID	CNW 11111					TURN	AROU	ND		5 0	Day			DI	BPOSAL	By I	ab o	r Re	tum	to C
	215WY001	EDD FOR	MAT						П	Т									Т		Τ		Γ
		PURCHASE OR	DER				_																
COMPANY NAME	Earth Services & Abatement	BILL TO COMP	ANY	Earth Services & Ab	atement																		
END REPORT TO		INVOICE ATT	N TO	-2 -		_				1													
ADDRESS	6700 E. 50th Ave.	ADDR	2E88	6700 E. 50th Ave.																			
CITY / STATE / ZIP	Commerce City, CO 80022	CITY / STATE	/ 21P	Commerce City, CO	80022																		
PHONE	303-991-1280	PH	ONE	303-991-1280																			
FAX	303-991-1282		FAX	303-991-1282			-	8082															
E-MAIL	Amanda.Wozab@esasite.com Joseph.Kulm@ESAsite.com	E-	MAIL	_				PCB by 80															
Lab ID	Field ID	Matrix	Sam Da		g Bottles	Pres.	QC																
	CHE-CNW11111-150721-001P; Gray Caulk, ext. window	NS	07.1	5.21 1200				x							T								
- 11	1																						
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Chain-of-Custody

For metals or anions, please detail analytes below.		-	1	SIGNATURE /	PRINTED NAME	DATE	TIME
Comments:	QC PACKAGE (check below)	RELINQUISHED BY	A	Mill	Joseph Kulm	7/19	
	LEVEL II (Standard QC)	RECEIVED BY	7	1 E	Josh Ectery	1/2/2/	044
	LEVEL III (Std QC + forms)	RELINQUISHED BY	-	• •			
	LEVEL IV (Sid QC + forms + raw data)	RECEIVED BY					
		RELINQUISHED BY					
Preservative Key: 1-HCI 2-HNO3 3-H2SO4 4-NaOH 5-N	ISO4 7-Other 8-4 degrees C 9-5035	RECEIVED BY					



ALS Environmental - Fort Collins CONDITION OF SAMPLE UPON RECEIPT FORM

	Client:	EARTH SERVICES & ABAT	EMENT	Work	korder l	No:	2	107406		
Project Ma	anager:	КМО		Initials	s:	JPE	Date:	07/	21/2021	
								N/A	YES	NO
^{1.} Are airbills /	shipping	documents present and/or	removab	le?					v	
Tracking n	umber: 2	815 9831 3879							Х	
2. Are custody	seals on	shipping containers intact?						Х		
3. Are custody	seals on	sample containers intact?						Х		
4. Is there a CO	C (chain	-of-custody) present?							Х	
5	•	ent with samples received? equested analyses, etc.)	(IDs, dates	s, times, a	# of sai	mples	, # of		х	
6. Are short-ho	ld samp	les present?								Х
7. Are all samp	les withi	n holding times for the requ	ested ana	lyses?					Х	
8. Were all sam	ple con	tainers received intact? (not	t broken c	or leaking	g)				Х	
9. Is there sufficient	cient sar	nple for the requested analy	yses?						Х	
10. Are samples <i>Guidelines</i>)	in prope	er containers for requested a	analyses?	(form 250	, Sample	e Handl	ing		х	
11. Are all aqueo	ous sam	oles preserved correctly, if re	equired? (excludir	ng vola	tiles)		Х		
		ring no headspace (VOC, GR ameter? (i.e. size of green pe		IEE, rado	on) free	e of bu	ubbles	Х		
^{13.} Were the sar		• •								Х
	-	res measured at 0.1-6.0°C?	IR gun used*:	#5				RAD ONLY		Х
Co	ooler #:	1			1					
Temperatu		AMB								
# of custody seals o		0								
External µR/hr		11								
Background µR/hr	-	11	·		- <u></u>					
-		s ≤ two times background and within D	OT acceptan	ce criteria?	YES / N	IO / NA	(If no, se	e Form 00	8.)	
* Please provide c	letails he	re for NO responses to boxes ab	ove - for 2 t	thru 5 & 7	thru 1	2, notif	y PM &	continue	w/ login.	
Were unpreserved	bottles	pH checked? YES / NA	All cl	ient bottl	le ID's v	s ALS I	ab ID's c	louble-ch	ecked by	JE
·		ontacted? YES / M_{ϕ} / NA / Contact				5.1201				
Project Manager		I ME M III							^{rime:} 7/21/2	:1
Fi uject ivianager	Signatur									

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SAMPLE SUMMARY REPORT

Collection Date:	7/15/2021 12:00	Percent Moisture:
Legal Location:		Matrix: SOLID
Sample ID:	CHE-CNW11111-150721-001P; Gray Caulk, ext. window	Lab ID: 2107406-1
Project:	215WY001 Cheyenne RS	Work Order: 2107406
Client:	Earth Services & Abatement	Date: 09-Aug-21

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBs		SW808	32	Prep	Date: 7/30/2021	PrepBy:CPC
AROCLOR-1016	ND		2.2	MG/KG	6	8/6/2021 12:02
AROCLOR-1221	ND		4.4	MG/KG	6	8/6/2021 12:02
AROCLOR-1232	ND		2.2	MG/KG	6	8/6/2021 12:02
AROCLOR-1242	ND		2.2	MG/KG	6	8/6/2021 12:02
AROCLOR-1248	ND		2.2	MG/KG	6	8/6/2021 12:02
AROCLOR-1254	ND		2.2	MG/KG	6	8/6/2021 12:02
AROCLOR-1260	ND		2.2	MG/KG	6	8/6/2021 12:02
Surr: TETRACHLORO-M-XYLENE	104		69-129	%REC	6	8/6/2021 12:02
Surr: DECACHLOROBIPHENYL	94		55-135	%REC	6	8/6/2021 12:02

Date: 09-Aug-21 **Client:** Earth Services & Abatement **Project:** 215WY001 Cheyenne RS Work Order: 2107406 CHE-CNW11111-150721-001P; Gray Caulk, ext. window Sample ID: Lab ID: 2107406-1 Legal Location: Matrix: SOLID Collection Date: 7/15/2021 12:00 **Percent Moisture:** Report Dilution Analyses Result Oual Limit Units **Date Analyzed** Factor

MDC.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

P - LCS, Matrix Spike Recovery within control limits.

NC - Not Calculated for duplicate results less than 5 times MDC

B3 - Analyte concentration greater than MDC but less than Requested

N - Matrix Spike Recovery outside control limits

B - Analyte concentration greater than MDC.

L - LCS Recovery below lower control limit.

H - LCS Recovery above upper control limit.

Explanation of Qualifiers

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Radiochemistry:

U or ND - Result is less than the sample specific MDC.

Y1 - Chemical Yield is in control at 100-110%. Quantitative yield is assumed.

- Y2 Chemical Yield outside default limits.
- W DER is greater than Warning Limit of 1.42
- * Aliquot Basis is 'As Received' while the Report Basis is 'Dry Weight'.
- # Aliquot Basis is 'Dry Weight' while the Report Basis is 'As Received'.
- G Sample density differs by more than 15% of LCS density.
- D DER is greater than Control Limit
- M Requested MDC not met.

Inorganics:

B - Result is less than the requested reporting limit but greater than the instrument method detection limit (MDL).

U or ND - Indicates that the compound was analyzed for but not detected.

E - The reported value is estimated because of the presence of interference. An explanatory note may be included in the narrative.

- M Duplicate injection precision was not met.
- N Spiked sample recovery not within control limits. A post spike is analyzed for all ICP analyses when the matrix spike and or spike duplicate fail and the native sample concentration is less than four times the spike added concentration.
- Z Spiked recovery not within control limits. An explanatory note may be included in the narrative.
- * Duplicate analysis (relative percent difference) not within control limits.
- S SAR value is estimated as one or more analytes used in the calculation were not detected above the detection limit.

Organics:

 ${\sf U}$ or ${\sf ND}$ - Indicates that the compound was analyzed for but not detected.

- B Analyte is detected in the associated method blank as well as in the sample. It indicates probable blank contamination and warns the data user.
- E Analyte concentration exceeds the upper level of the calibration range.
- J Estimated value. The result is less than the reporting limit but greater than the instrument method detection limit (MDL).
- A A tentatively identified compound is a suspected aldol-condensation product.
- X The analyte was diluted below an accurate quantitation level.
- * The spike recovery is equal to or outside the control criteria used.
- + The relative percent difference (RPD) equals or exceeds the control criteria.
- G A pattern resembling gasoline was detected in this sample.
- D A pattern resembling diesel was detected in this sample.
- M A pattern resembling motor oil was detected in this sample.
- C A pattern resembling crude oil was detected in this sample.
- 4 A pattern resembling JP-4 was detected in this sample.
- 5 A pattern resembling JP-5 was detected in this sample.
- H Indicates that the fuel pattern was in the heavier end of the retention time window for the analyte of interest.
- L Indicates that the fuel pattern was in the lighter end of the retention time window for the analyte of interest.
- Z This flag indicates that a significant fraction of the reported result did not resemble the patterns of any of the following petroleum hydrocarbon products: gasoline
- JP-8
- diesel
- mineral spirits
- motor oil
 Stoddard solvent
- bunker C

SAMPLE SUMMARY REPORT

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Client:	Earth Services & Abatement
Work Order:	2107406
Project:	215WY001 Cheyenne RS

QC BATCH REPORT

Batch ID: EX210730-3-1	Instrument ID: Pes	st-1		Method: SV	V8082						
LCS Sample ID: EX210730			Ur	nits: MG/K	G	Analy	sis Date: 8	/6/2021	14:13		
Client ID:	Run II	D: PT210806-1	1			F	Prep Date: 7/3	0/2021	DF:	1	
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qua
AROCLOR-1016	0.133	0.0333	0.133		99	80-120				50	
AROCLOR-1260	0.137	0.0333	0.133		103	80-125				50	
Surr: TETRACHLORO-M-XYLENE	0.0152		0.0167		91	69-129					
Surr: DECACHLOROBIPHENYL	0.0187		0.0167		112	55-135					
LCSD Sample ID: EX210730)-3			Ur	nits:MG/K	G	Analy	sis Date: 8	/6/2021	14:32	
Client ID:	D: PT210806-1	1			F	Prep Date: 7/3	0/2021	DF:	1		
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qua
AROCLOR-1016	0.125	0.0333	0.133		94	80-120		0.133	6	50	
AROCLOR-1260	0.131	0.0333	0.133		99	80-125		0.137	4	50	
Surr: TETRACHLORO-M-XYLENE	0.015		0.0167		90	69-129			1		
Surr: DECACHLOROBIPHENYL	0.0178		0.0167		107	55-135			5		
MB Sample ID: EX210730)-3			Ur	nits: MG/K	G	Analy	sis Date: 8	/6/2021	11:25	
Client ID:	Run II	D: PT210806-1	1			F	Prep Date: 7/3	0/2021	DF:	1	
Analyte	Result	ReportLimit									Qua
AROCLOR-1016	ND	0.033									
AROCLOR-1221	ND	0.067									
AROCLOR-1232	ND	0.033									
AROCLOR-1242	ND	0.033									
AROCLOR-1248	ND	0.033									
AROCLOR-1254	ND	0.033									
AROCLOR-1260	ND	0.033									
Surr: TETRACHLORO-M-XYLENE	0.0158				95	69-129					

The following samples were analyzed in this batch:

2107406-1

Appendix 3 - Modified Sawyer Algorithm

Report Date	08/10/2021
Rolling Stock Type	Caboose
Rolling Stock No	CNW 11111

Rating

SAWYER ALGORITHM PRIORITY Asbestos Potential Exposure and Priority Level Algorithm Asset Number CNW 11111 Breaker box Exposure Area Asbestos Containing Material Black bakelite CHE-CNW11111-150721-001 thru 003 Sample Number Size NA Quantity 0.5 SF MATERIAL CONDITION (MC) 0 0 =No damage, excellent condition 1 =Very minor damage, no visible debris 2 =Damage is evident, small area 3 =Damage is easily seen, some debris 4 =Damage is widespread, debris is common 5 =Most or all material is damaged, hanging, and / or found as debris throughout the area **BUILDING AGE (BA)** 1 =>30 years old 0 =15 - 30 years old -1 =<15 years old MATERIAL TYPE Pipe Covering (PC) 1 =MAG/CAL Silicate NA -1 =Air Cell / paper Ceiling Plasters or Fireproofing (CP) NA 1 =Cementitious (Monocoat) 0 =Standard 1 ="Cotton Candy" texture WATER DAMAGE (WD) 0 0 =No water damage 1 =Small amount of damage can be seen; damage is localized rather than widespread 2 =Good deal of water damage; widespread ROOF CHARACTERISTICS (RC) -0.5 -0.5 =Sloped or Hipped -0.5 =Metal or Concrete 0.5 =Flat or Built-up EXPOSED SURFACE AREA (ESA) 4 0 =Material behind a permanent enclosure 2 =Material behind a lay-in ceiling or in open tunnel 4 =Material is exposed ACCESSIBILITY (AC) л 0 =Totally inaccessible 1 =Can only reach with hands, ie. pipe chase 2 =An open tunnel or above a drop ceiling 3 =Exposed overall, but can't reach, ie. >10' high 4 =Material is out in the open and <10' high ACTIVITY AND MOVEMENT (A/M) 2 0 =No occupants enter the area 1 =Area is accessed infrequently 2 =Area is accessed frequently WORK ENVIRONMENT (WE) 0.5 -0.5 =Sedentary 0.5 =Non-sedentary SOUND AND MECHANICAL VIBRATIONS (SMV) 0.5 0.5 =Frequent or Constant -0.5 =No recognizable vibration AIR - PLENUM / AIR STREAM (AP) 1 0 =No air plenum or air flow 1 =Air plenum or air flow exists VELOCITY (if Air Plenum = 1) (VEL) -0.25 0.25 =Recognizable by human feeling -0.25 =Non-recognizable by human feeling FLOW (if Air Plenum = 1) (FL) -0.25 =Constant, steady stream NA 0.25 =Impact, gusty flow FRIABILITY (F) 1 1 =Very hard to crumble under hand pressure 2 = Will crumble under a little hand pressure 3 =Extremely easy to crumble under light pressure ASBESTOS CONTENT (ASB) 1 0 =None <1% 1 =1% to 10% Asbestos 2 =11% to 50% Asbestos 3 =51% to 100% Asbestos Exposure Value 12.25

4



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August 10th, 2021

Union Pacific Railroad Asbestos Program c/o GHD 3807 South 148th Street Omaha, NE 68144

RE: WY, Cheyenne, Rollingstock D&RGW 01476, Requested NESHAP Inspection Earth Services & Abatement Project Number: 215WY001

To Whom It May Concern,

Please find our NESHAP report for the above-mentioned requested inspection. Earth Services & Abatement's Joseph Kulm inspected UPRR railcar D&RGW 01476 for suspect asbestos-, lead-, and PCB-containing materials. The inspection work took place on July 17th, 2021.

No previous reports were provided for review prior to inspection.

Refer to the report for a summary of this inspection, including inspection/lab results, inspection photographs, and schematics.

If you have any questions or need anything else for this project, please do not hesitate to contact us.

Conducted by,

Jospeh Kulm Inspector Earth Services & Abatement

Reviewed by,

Best Syphie

Robert Szynskie Program Director Earth Services & Abatement Robert.szynskie@esasite.com Cell – 720-206-9238

X Initial Inspection Reinspection X NESHAP Inspection Report Date 08/10/2 Inspection Company Earth Services & Abatement License No. 16608 Address 6700 E 50th Ave City Commerce City State CO Zip 80022 Inspector Information First Name Joseph Last Name Kulm License Type AHERA License No. C6LEMQA0R3U License State Asset Information Rolling Stock Type Caboose Car Name D&RGW 01476 Rolling Stock No D&RGW 01476 Car Name D&RGW 01476 Out Nation Yard Name Cheyenne Static Unknown Out Nation Address East Union Pacific Ave. Mile Post Unknown Out Nation City Cheyenne Latitude 41.129618° Out Nation State WY Longitude -104.814722° Out Nation Key Contacts 303-991-1280 Earth Services & Abatement Inspector Szynskie,Robert 303-991-1280 Earth Services & Abatement Program Director	BUILDING AMERICA [®] Inspection Type				•	ction Start Date	07/17/20
Company Earth Services & Abatement License No. 16608 Address 6700 E 50th Ave City Commerce City State CO Zip 80022 Inspector Information First Name Joseph Last Name Kulm License Type AHERA License No. C6LEMQA0R3U License State Asset Information Kulm License State Casset Information Rolling Stock Type Caboose Caboose D&RGW 01476 Rolling Stock No D&RGW 01476 Car Name D&RGW 01476 Yard Name Cheyenne Subdivision Unknown Address East Union Pacific Ave. Mile Post Unknown City Cheyenne Latitude 41.129618° State WY Longitude -104.814722° Zip Code 82001	X Initial Inspection	Reinspection	X NE	SHAP Inspection	Repor	t Date	08/10/20
Address 6700 E 50th Ave City Commerce City State CO Zip 80022 Inspector Information East Name Kulm First Name Joseph Last Name Kulm License Type AHERA License No. C6LEMQA0R3U License State Asset Information Caboose Car Name D&RGW 01476 Car Name D&RGW 01476 Yard Name Cheyenne Subdivision Unknown Unknown Unknown Address East Union Pacific Ave. Mile Post Unknown Unknown City Cheyenne Latitude 41.129618° 201 State WY Longitude -104.814722° 201 Key Contacts State WY Longitude -104.814722° Name Phone Number Company Role/Responsibility Kulm, Joseph 303-991-1280 Earth Services & Abatement Inspector Szynskie, Robert 303-991-1280 Earth Services & Abatement Program Director Dickens, Edgar 307-214-3545 UPRR Local Contact <td>• •</td> <td>•</td> <td></td> <td></td> <td></td> <td></td> <td></td>	• •	•					
State CO Zip 80022 Inspector Information First Name Joseph Last Name Kulm License Type AHERA License No. C6LEMQA0R3U License State Asset Information Rolling Stock Type Caboose Rolling Stock No D&RGW 01476 Car Name D&RGW 01476 Yard Name Cheyenne Subdivision Unknown Address East Union Pacific Ave. Mile Post Unknown City Cheyenne Latitude 41.129618° State WY Longitude -104.814722° Zip Code 82001 Earth Services & Abatement Inspector Szynskie,Robert 303-991-1280 Earth Services & Abatement Inspector Szynskie,Robert 303-991-1280 Earth Services & Abatement Inspector Dickens,Edgar 307-214-3545 UPRR Local Contact							
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First Name Joseph Last Name Kulm License Type AHERA License No. C6LEMQA0R3U License State Asset Information Caboose Car Name D&RGW 01476 Rolling Stock Type Caboose Car Name D&RGW 01476 Yard Name Cheyenne Subdivision Unknown Address East Union Pacific Ave. Mile Post Unknown City Cheyenne Latitude 41.129618° State WY Longitude -104.814722° Zip Code 82001 S03-991-1280 Earth Services & Abatement Inspector Szynskie,Robert 303-991-1280 Earth Services & Abatement Program Director Dickens,Edgar 307-214-3545 UPRR Local Contact				State CO	Z	Zip <u>80022</u>	
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Asset Information Rolling Stock Type Caboose Rolling Stock No D&RGW 01476 Car Name D&RGW 01476 Yard Name Cheyenne Subdivision Unknown Address East Union Pacific Ave. Mile Post Unknown City Cheyenne Latitude 41.129618° State WY Longitude -104.814722° Zip Code 82001 Key Contacts Name Phone Number Company Role/Responsibility Kulm,Joseph 303-991-1280 Earth Services & Abatement Inspector Szynskie,Robert 303-991-1280 Earth Services & Abatement Program Director Dickens,Edgar 307-214-3545 UPRR Local Contact	First Name Joseph		Las	t Name Kulm			
Rolling Stock TypeCabooseRolling Stock NoD&RGW 01476Car NameD&RGW 01476Yard NameCheyenneSubdivisionUnknownAddressEast Union Pacific Ave.Mile PostUnknownCityCheyenneLatitude41.129618°StateWYLongitude-104.814722°Zip Code82001Key ContactsNamePhone NumberCompanyRole/ResponsibilityKulm,Joseph303-991-1280Earth Services & AbatementInspectorSzynskie,Robert303-991-1280Earth Services & AbatementProgram DirectorDickens,Edgar307-214-3545UPRRLocal Contact	License Type AH	RA License No.	C6LEMQ	A0R3U	Lice	nse State	
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AddressEast Union Pacific Ave.Mile PostUnknownCityCheyenneLatitude41.129618°StateWYLongitude-104.814722°Zip Code82001-104.814722°Key ContactsNamePhone NumberCompanyRole/ResponsibilityKulm,Joseph303-991-1280Earth Services & AbatementInspectorSzynskie,Robert303-991-1280Earth Services & AbatementProgram DirectorDickens,Edgar307-214-3545UPRRLocal Contact	Rolling Stock No	D&RGW 01476		Car Name	D&RGV	V; 01476	
City StateCheyenneLatitude41.129618°StateWYLongitude-104.814722°Zip Code82001-104.814722°Key ContactsNamePhone NumberCompanyRole/ResponsibilityKulm, Joseph303-991-1280Earth Services & AbatementInspectorSzynskie, Robert303-991-1280Earth Services & AbatementProgram DirectorDickens, Edgar307-214-3545UPRRLocal Contact	Yard Name	Cheyenne		Subdivision	Unknow	'n	
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Zip Code 82001 Key Contacts Key Contacts Name Phone Number Company Role/Responsibility Kulm,Joseph 303-991-1280 Earth Services & Abatement Inspector Szynskie,Robert 303-991-1280 Earth Services & Abatement Program Director Dickens,Edgar 307-214-3545 UPRR Local Contact	City	Cheyenne		Latitude	41.1296	618°	
Key ContactsNamePhone NumberCompanyRole/ResponsibilityKulm,Joseph303-991-1280Earth Services & AbatementInspectorSzynskie,Robert303-991-1280Earth Services & AbatementProgram DirectorDickens,Edgar307-214-3545UPRRLocal Contact	State	WY		Longitude	-104.81	4722°	
NamePhone NumberCompanyRole/ResponsibilityKulm,Joseph303-991-1280Earth Services & AbatementInspectorSzynskie,Robert303-991-1280Earth Services & AbatementProgram DirectorDickens,Edgar307-214-3545UPRRLocal Contact	Zip Code	82001					
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Szynskie,Robert303-991-1280Earth Services & AbatementProgram DirectorDickens,Edgar307-214-3545UPRRLocal Contact	-	Phone Number	Comp	any		Role/Responsibili	ty
Dickens,Edgar 307-214-3545 UPRR Local Contact	Kulm,Joseph	303-991-1280	Earth	Services & Abate	ment	Inspector	
	Szynskie,Robert	303-991-1280	Earth	Services & Abate	ment	Program Director	
Inspection Limitations	Dickens,Edgar	307-214-3545	UPRF	2		Local Contact	
Significant efforts were made to conduct a comprehensive inspection of this railcar. However, the inspection	Dickens,Edgar	307-214-3545 tions	UPRF	2		Local Contact	

		Rolling Sto	ock Asbestos Inspe	ction Rep	ort R	Report Date	08/10/2021	
		U	•	-	Rolling	Stock Type	Caboose	
BUILDING	AMERICA				Rollin	g Stock No	D&RGW 0	1476
Asbe	estos Results							
ACM Pre	esent ¹ Yes	Total Number	of ACM Components. ¹ 2					
Total Nu Notes	umber of Materials Containin	ng <= 1% Asbestos.	0		_			
	ease note the material descr tails. Asbestos Sam		descriptive than that on the cha	in-of-custody in o	order to provid	de distinguis	shing material	
Sample Date	Sample ID	Description	Location	Asbestos Result ²	ACM Category	Friable	Quantity	Modified Algorithm Number
07/17/2021	CHE-DRGW01476-1707 21-001 thru 003	Gray/black window caulk	Exterior window frames	6%, Chrysotile	Category II	No	30 LF	4
07/17/2021	CHE-DRGW01476-1707 21-004 thru 006	Brown fiberboard	Around boiler	Not Detected	N/A	N/A	24 sq. ft.	N/A
07/17/2021	CHE-DRGW01476-1707 21-007 thru 009	Gray bakelite	Breakers	Not Detected	N/A	N/A	0.5 sq. ft.	N/A
07/17/2021	CHE-DRGW01476-1707 21-010 thru 012	Black flooring and gray mastic	Floor throughout	Not Detected	N/A	N/A	320 sq. ft.	N/A
	CHE-DRGW01476-1707 21-013 thru 015	Black tar	Roof penetrations	6%, Chrysotile	Category I	No	2 sq. ft.	4

1 "ACM Present" is defined as material with >1% asbestos, except in California, where Asbestos-Containing Construction Material (ACCM) is defined as >0.1% asbestos.

2 For samples collected in sets, only the highest result is reported. Some of the collected samples may not have been analyzed. See the attached laboratory report for additional details.

3 "Lead Present" and "Positive" is defined as paint with $\geq 0.5\%$ lead.

4 "PCBs Present" and "Positive" is defined as caulk with \geq 50 ppm PCBs.

BUILDING AM		Roll	ing St	ock Asbestos In	spection	Rolling Sto	ock Type	08/10/202 Caboose D&RGW)
Lead-Ba Lead Prese Notes		Aint Results	tal Numbe	er of Positive Components. ³	3 2				
		Paint Samples							
Sample Date	;	Sample ID		Description	1	Location		ead esult	Condition
07/17/2021	С	CHE-DRGW01476-170721-0	001L	Green		Interior	0.037	%	Fair
07/17/2021	07/17/2021 CHE-DRGW01476-170721-		002L	Orange		Exterior 6		(Good
07/17/2021	C	CHE-DRGW01476-170721-0	003L	White		Exterior handrails	3 %	/	Poor
07/17/2021	С	CHE-DRGW01476-170721-0	004L	Black		Undercarriage	0.098	%	Poor
POlychl PCBs Prese Notes			tal Number	er of Positive Components. ⁴	⁴ 0				
<u> </u>		PCBs Samples							
Sample Date		Sample ID	I	Description	Locat	tion		PCBs Result	Quantit
07/17/2021	CHE-D 1P	DRGW01476-170721-00	Gray/blac	ck window caulk	Exter	rior window frames		Not Detected	30 LF
1 "ACM Present" is	s defined as i	material with >1% asbestos, exceps, only the highest result is reported	ept in California	ia, where Asbestos-Containing Cc	onstruction Materia	al (ACCM) is defined as >0.1%	ó asbestos.		

4 "PCBs Present" and "Positive" is defined as caulk with ≥50 ppm PCBs.

Page 3

	Rolling Stock Asbestos Inspection Report	Report Date	08/10/2021	
UIIID	Rollir	ng Stock Type	Caboose	
	Ro	olling Stock No	D&RGW 01476	
Mold Results				
Suspect Mold Present	No			
Notes				

1 "ACM Present" is defined as material with >1% asbestos, except in California, where Asbestos-Containing Construction Material (ACCM) is defined as >0.1% asbestos.

2 For samples collected in sets, only the highest result is reported. Some of the collected samples may not have been analyzed. See the attached laboratory report for additional details.

3 "Lead Present" and "Positive" is defined as paint with $\geq 0.5\%$ lead.

4 "PCBs Present" and "Positive" is defined as caulk with \geq 50 ppm PCBs.



Rolling Stock Asbestos Inspection Report Asset Photos Report Date 08/10/2021

BUILDING AMERICA"



Railcar ID Marking



View of railcar, looking west

Rolling Stock Type

Caboose

Rolling Stock No D&RGW; 01476



View of railcar, looking east



Interior of railcar



Rolling Stock Asbestos Inspection Report Sample Photos Report Date 08/10/2021

BUILDING AMERICA**



CHE-DRGW01476-170721-001 thru 003, 6% Asbestos, Gray/black window caulk



CHE-DRGW01476-170721-004 thru 006, Asbestos Not Detected, Brown fiberboard



CHE-DRGW01476-170721-007 thru 009, Asbestos Not Detected, Gray bakelite

Caboose

Rolling Stock Type

Rolling Stock No D&RGW; 01476



CHE-DRGW01476-170721-001 thru 003, 6% Asbestos, Gray/black window caulk



CHE-DRGW01476-170721-004 thru 006, Asbestos Not Detected, Brown fiberboard



CHE-DRGW01476-170721-007 thru 009, Asbestos Not Detected, Gray bakelite



Rolling Stock Asbestos Inspection Report Sample Photos Report Date 08/10/2021

BUILDING AMERICA**



CHE-DRGW01476-170721-010 thru 012, Asbestos Not Detected, Black flooring and gray mastic



CHE-DRGW01476-170721-013 thru 015, 6% Asbestos, Black tar



CHE-DRGW01476-170721-001L, 0.037% Lead, Green

Rolling Stock Type

Caboose

Rolling Stock No D&RGW; 01476



CHE-DRGW01476-170721-010 thru 012, Asbestos Not Detected, Black flooring and gray mastic



CHE-DRGW01476-170721-013 thru 015, 6% Asbestos, Black tar



CHE-DRGW01476-170721-001L, 0.037% Lead, Green



Rolling Stock Asbestos Inspection Report Sample Photos Report Date 08/10/2021

BUILDING AMERICA**



CHE-DRGW01476-170721-002L, 6.4% Lead, Orange



CHE-DRGW01476-170721-003L, 3% Lead, White



CHE-DRGW01476-170721-004L, 0.098% Lead, Black

Rolling Stock Type

Caboose

Rolling Stock No D&RGW; 01476



CHE-DRGW01476-170721-002L, 6.4% Lead, Orange



CHE-DRGW01476-170721-003L, 3% Lead, White



CHE-DRGW01476-170721-004L, 0.098% Lead, Black



Rolling Stock Asbestos Inspection Report Sample Photos Report Date 08/10/2021

BUILDING AMERICA"



CHE-DRGW01476-170721-001P, PCB Not Detected, Gray/black window caulk

Rolling Stock Type

Caboose

Rolling Stock No D&RGW; 01476

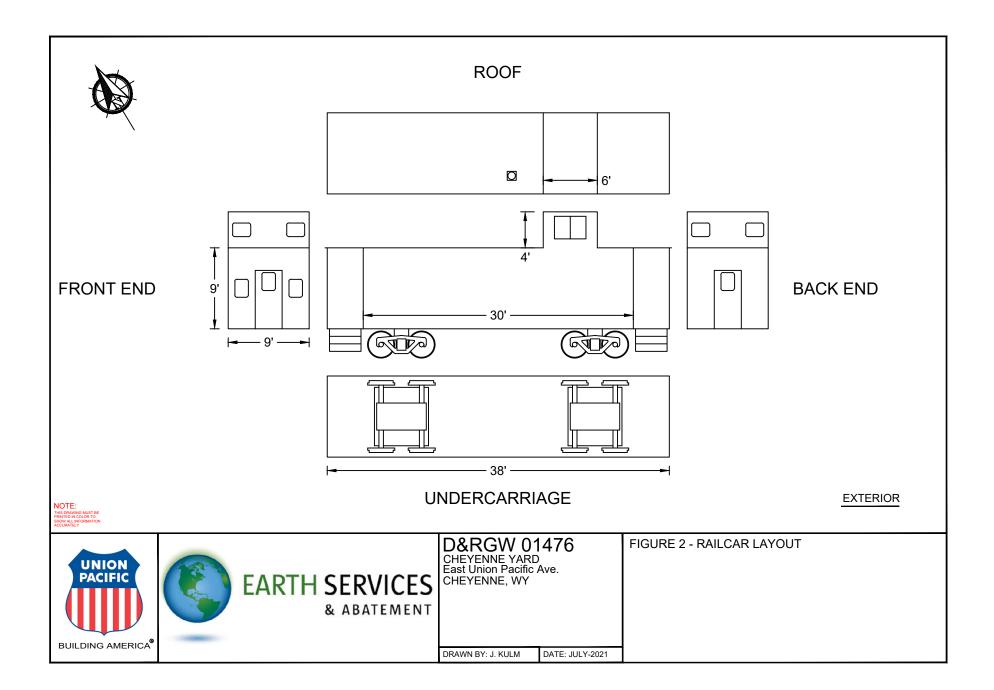


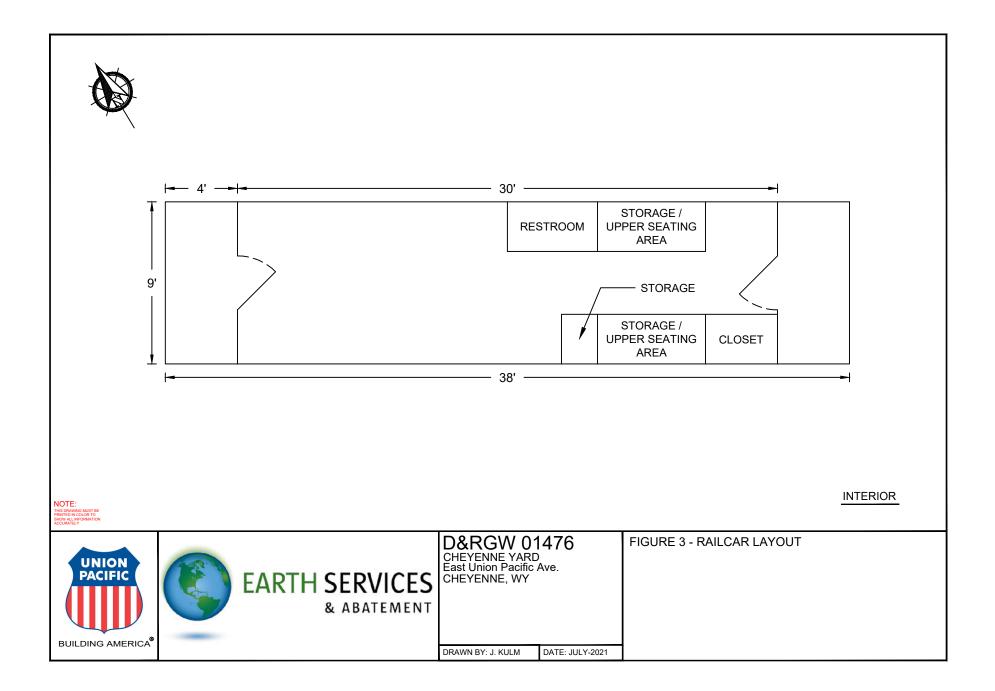
CHE-DRGW01476-170721-001P, PCB Not Detected, Gray/black window caulk

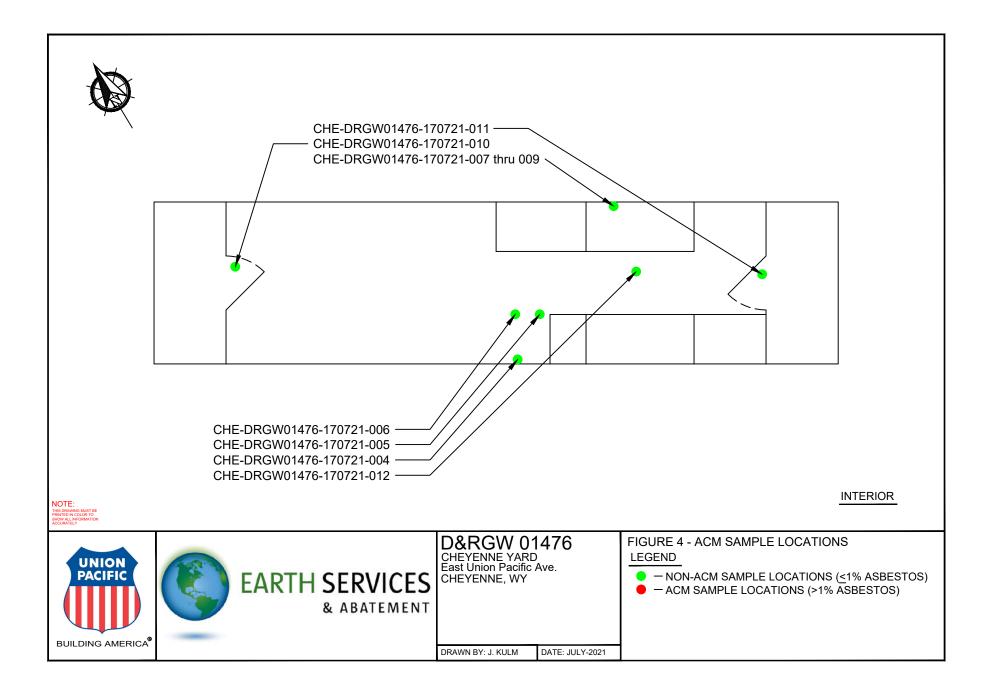
Appendix 1 - Figures

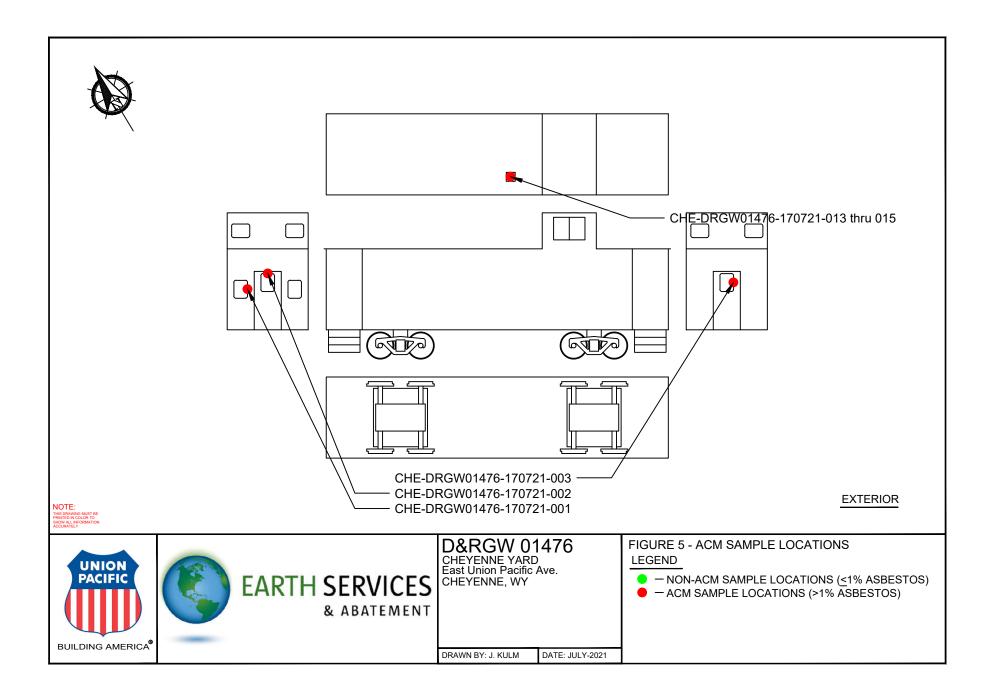
Report Date08/10/2021Rolling Stock TypeCabooseRolling Stock NoD&RGW; 01476

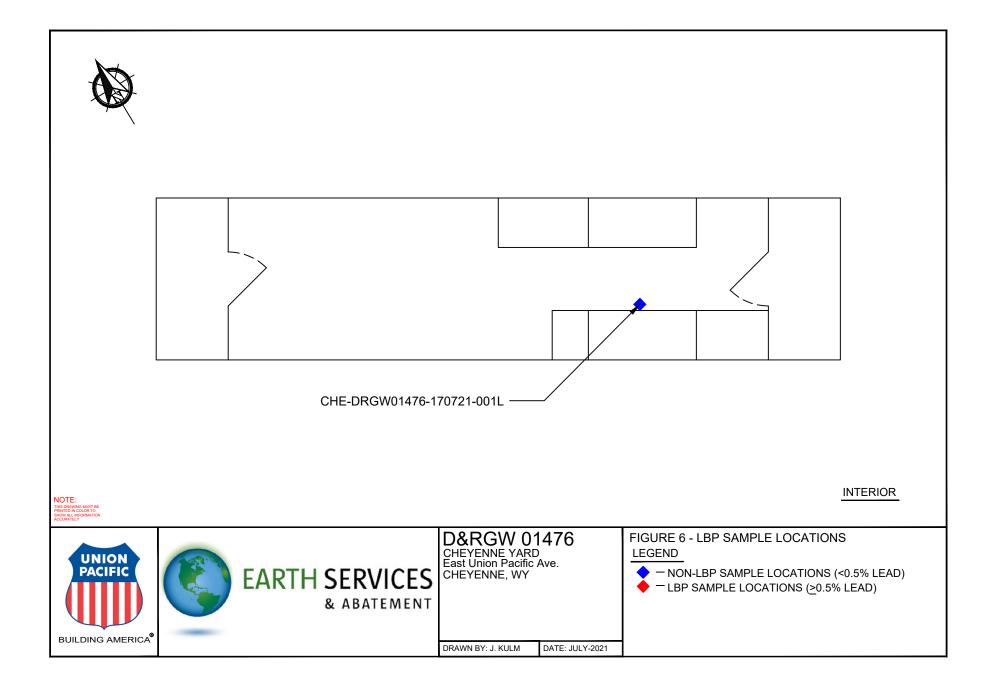


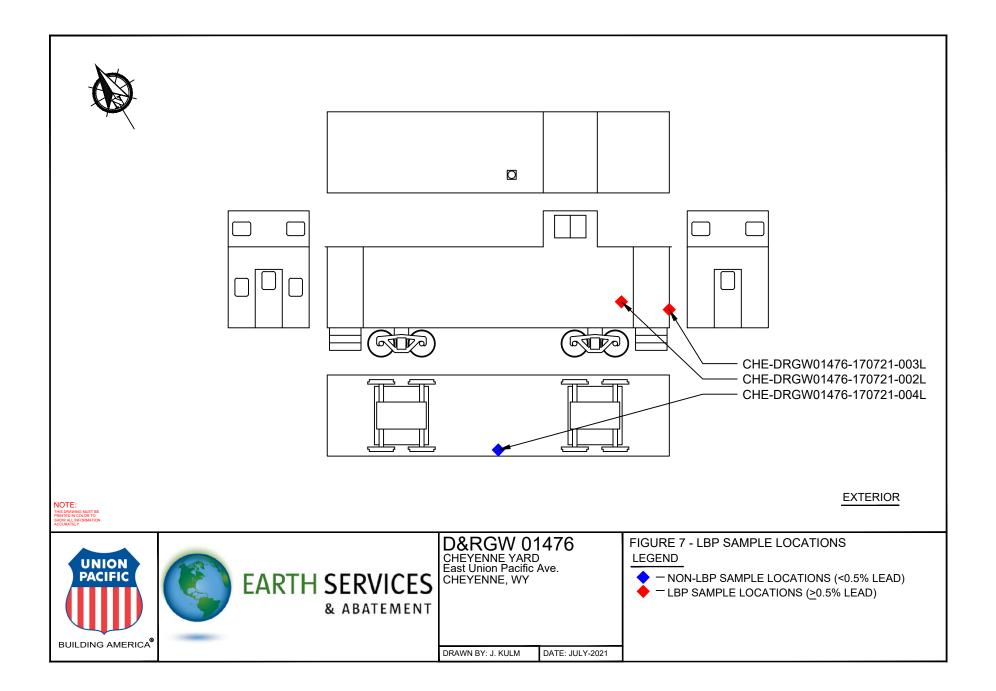


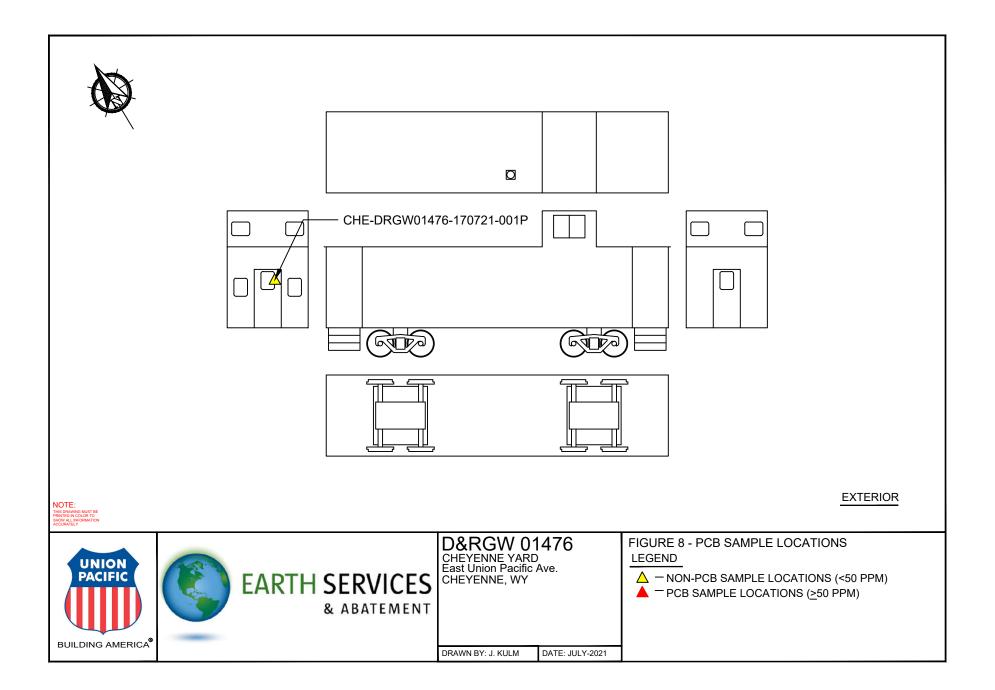


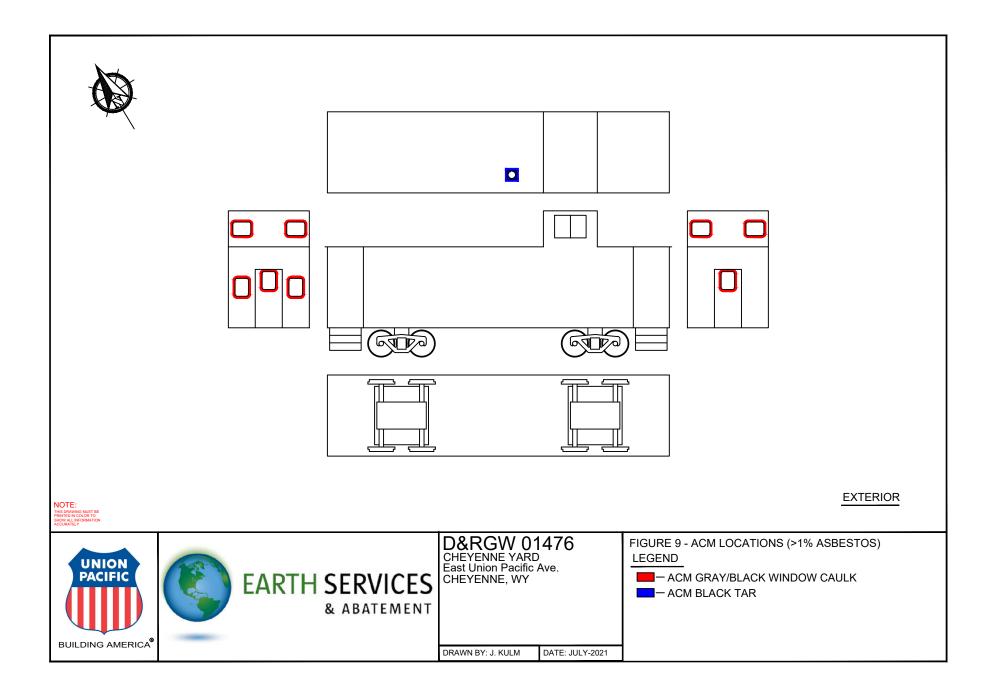












Appendix 2 - Lab Reports and Chain of Custody Receipts

Report Date08/10/2021Rolling Stock TypeCabooseRolling Stock NoD&RGW; 01476

Eurofins J3 Resources, Inc.

3113 Red Bluff Road, Pasadena, TX 77503 Phone: (713) 290-0223 - Fax: (713) 290-0248 *J3Resources.com*





Bulk Asbestos Fiber Analysis by Polarized Light Microscopy (PLM) Appx E Sub E 40 CFR 763 / EPA 600/R-93/116

Joseph Kulm Earth Services & Abatement, Inc. 6700 E. 50th Avenue Commerce City CO 80022
 Order #:
 JH21129236

 Project #:
 215WY001

 Date Received:
 20-Jul-2021

 Date Analyzed:
 22-Jul-2021

 Date Reported:
 22-Jul-2021

D&RGW 01476 WY Rollingstock Inspections

Sample ID #	Sample Description	Asbestos Constituents	Non-Asbestos Constituents	
CHE- DRGW01476- 170721-001	Caulking, Gray/ Black, Homogeneous	Chrysotile 6%	Non-Fibrous Material	94%
CHE- DRGW01476- 170721-002	Caulking, *Not analyzed per client requ	est		
CHE- DRGW01476- 170721-003	Caulking, *Not analyzed per client requ	est		
CHE- DRGW01476- 170721-004	Fiberboard, Brown, Homogeneous	None Detected	Mineral Wool Synthetic Fiber Non-Fibrous Material	40% 20% 40%
CHE- DRGW01476- 170721-005	Fiberboard, Brown, Homogeneous	None Detected	Mineral Wool Synthetic Fiber Non-Fibrous Material	40% 20% 40%
CHE- DRGW01476- 170721-006	Fiberboard, Brown, Homogeneous	None Detected	Mineral Wool Synthetic Fiber Non-Fibrous Material	40% 20% 40%
CHE- DRGW01476- 170721-007	Bakelite, Gray, Homogeneous	None Detected	Non-Fibrous Material	100%
CHE- DRGW01476- 170721-008	Bakelite, Gray, Homogeneous	None Detected	Non-Fibrous Material	100%
CHE- DRGW01476- 170721-009	Bakelite, Gray, Homogeneous	None Detected	Non-Fibrous Material	100%

Scott Ward, Ph.D. Lab Director

 Juliann Johnson
 Analyst
 Scott Ward, Ph.D.
 Lab Director

 These results apply to the sample(s) as received. This report is for the exclusive use of the addressed client and shall not be reproduced except in full, without written approval by Eurofins J3 Resources, Inc. (EJ3). Samples are analyzed according to the methods listed above and are subject to the inherent limitations of PLM and interference of matrix components. Reporting limit for the above method is a function of the quantity of sample analyzed, matrix interference, sample preparation, fiber size, and distribution. Asbestos may be detected in concentrations of <1% by area if sufficient material is analyzed. EJ3 recommends TEM confirmation of soils, vermiculite and non-friable organically bound materials (NOB) reported as None Detected or < 1% Asbestos by PLM. All samples received in good condition unless otherwise noted. This report shall not be used to claim product approval, certification, or endorsement by NVLAP, NIST, or any agency of the federal government.</th>

Eurofins J3 Resources, Inc.

3113 Red Bluff Road, Pasadena, TX 77503 Phone: (713) 290-0223 - Fax: (713) 290-0248 *J3Resources.com*





Bulk Asbestos Fiber Analysis by Polarized Light Microscopy (PLM) Appx E Sub E 40 CFR 763 / EPA 600/R-93/116

Joseph Kulm Earth Services & Abatement, Inc. 6700 E. 50th Avenue Commerce City CO 80022
 Order #:
 JH21129236

 Project #:
 215WY001

 Date Received:
 20-Jul-2021

 Date Analyzed:
 22-Jul-2021

 Date Reported:
 22-Jul-2021

D&RGW 01476 WY Rollingstock Inspections

Sample ID #	Sample Description	Asbestos Constituents	S	Non-Asbestos Constituents	
CHE- DRGW01476- 170721-010	LAYER 1 Flooring, Brown/ Gray, Homogeneous	None Detected		Non-Fibrous Material	100%
	LAYER 2 Mastic, Gray, Homogeneous	None Detected		Non-Fibrous Material	100%
CHE- DRGW01476- 170721-011	LAYER 1 Flooring, Brown/ Gray, Homogeneous	None Detected		Non-Fibrous Material	100%
	LAYER 2 Mastic, Gray, Homogeneous	None Detected		Non-Fibrous Material	100%
CHE- DRGW01476- 170721-012	LAYER 1 Flooring, Brown/ Gray, Homogeneous	None Detected		Non-Fibrous Material	100%
	LAYER 2 Mastic, Gray, Homogeneous	None Detected		Non-Fibrous Material	100%
CHE- DRGW01476- 170721-013	Tar, Black, Homogeneous	Chrysotile	6%	Non-Fibrous Material	94%
CHE- DRGW01476- 170721-014	Tar, *Not analyzed per client request				
CHE- DRGW01476- 170721-015	Tar, *Not analyzed per client request				

Scott Ward, Ph.D. Lab Director

Juliann Johnson

Analyst

These results apply to the sample(s) as received. This report is for the exclusive use of the addressed client and shall not be reproduced except in full, without written approval by Eurofins J3 Resources, Inc. (EJ3). Samples are analyzed according to the methods listed above and are subject to the inherent limitations of PLM and interference of matrix components. Reporting limit for the above method is a function of the quantity of sample analyzed, matrix interference, sample preparation, fiber size, and distribution. Asbestos may be detected in concentrations of <1% by area if sufficient material is analyzed. EJ3 recommends TEM confirmation of soils, verniculite and non-friable organically bound materials (NOB) reported as None Detected or < 1% Asbestos by PLM. All samples received in good condition unless otherwise noted. This report shall not be used to claim product approval, certification, or endorsement by NVLAP, NIST, or any agency of the federal government.

IH CHAIN OF CUSTODY

🛟 eurofins

J3 Resource:

Open Lab Fee

129236

Submitter Name:	loseph Kulm					Bill to:	Sam	e						
Company:	Earth Servic	es & A	batement	, Ilc		Address	:							
Address: 6	700 E 50th /	Ave												
						City/Sta					Zip:			<u> </u>
Citure Comr	nerce City ,	20		8002	22	1 -	215WY001				- ib:			
City/State: Commerce City, CO Zip: 80022 PO #: 215WY001 Project Information														
Project Name: www.pa	Project Manager: Amanda Wozab							<u> </u>						
			ons				_					.		
Project #: 215WY001							phone Of							
Reports - Email Addre		.wozał	o@esasite	e.com	, josepł	n.kulm@e	sasite.com,				Desas	site.com		
Invoice - Email Addre	ss: same					Not	ification By	: Em	ail:		Verb	pal: 🗆		
Special Instructions: 2	100 point-cou	int san	nples with	deteo	ctions u	ip to 5% a	sbestos wit	h GR, a	as n	eeded				
			Тиглаго	ound	Times	5 — Pleas	e Select	One				e La la la	N	· · · ·
Emergency* C] 1	Day			2 Day	, 🗆	3	Day	Ø			5 Da	iy 🗆	
	· · · · · · · · · · · · · · · · · · ·				ASB	ESTOS							· .	
PLM - Bulk	PCM -	Air	TEM -	Air	TE	VI - Bulk	TEM - V	Vater	Т	EM - D	ust	TI Soil/Ve	EM/PL	
EPA 600/R-93/116 Visual Estimation (<1% 400 Point Count 0.25% 1,000 Point Count 0.15% Gravimetric Reduction Matrix Reduction (+/-) NIOSH 9002 OSHA ID-191	6) O ASTM D 6 O ISO 867 6 O OSHA II	SO 8672 O ASTM D6281 O Matri DSHA ID-160 O ISO 10312 O Qual		uction (<1%) ix uction (+/-) litative (+/-) op Mount	tion (<1%) Drinking Water ○ >10 µm fibers tion (+/-) ○ ≥0.5 µm fibers ative (+/-) ○ EPA 100.2 ○ Mount Effluent / WW			Microvac O A O ASTM D6480 O C Wipe O S O 600/J-93/167 Carpet - EPA O V O Bulk Dust O V		 ASTM ASTM CARB Soil – F Vermicit Vermicit Erionite 	7521-T8 435-Mo PLM Onl ulite - Ti ulite-Cir	EM (<1%) dified ly (+/-) EM (+/-)		
· · ·	k		META	LS	1		1		l	SIL		PART	(CUL	ATES
Flame AA		Gr	aphite Fu		AA -	ICP X-Ray Diffraction / Gravimetric					imetric			
LEAD O Lead in Paint – SW846 7420/3050B O Drinking Water – EPA 200.9 O Lead in Air – NIOSH 7082 O Wastewater – SW846-7421 O Lead in Wipes – SW846 7420/3050B O Soil/Sludge – SW846-7421 O Lead in Soil – SW846 7420/3050B O Air – NIOSH 7105 O TCLP – SW846-1311/6010B O Air – NIOSH 7105			 Elements in Air – NIOSH 7300 Wipe/Soil – SW846-6010B Effluent – SW846-6010B Welding Fume – NIOSH 7300M NIOSH 0500 – Total Particulates NIOSH 0600 – Respirable Particulates 				es							
Total Number of Samples Submitted: 15 Positive Stop: YES NO														
		\sim	77/	2	Sign	atures							· · ·	
Relinquished By:		A 7	18	~		m		_ Date	•:	2/10	1	Time:		00
Received By:			-			<u>///·</u>		_ Date):	(][[]	121	Time:	1 <u>0:</u>	30
Relinquished By:						v		_ Date				Time:		
Received By: * Emergency TAT requires p	prior lab notificati	on. All sa	mples analyz	ed outsi	de normal	business hou	rs are charged a	Date at Emerge		ate.		Time:		
**TAT's are in Business Day Eurofi∩s J3 Resources, In	rs rather than Hou	ırs (i.e.1 l	Day TAT = En	d of Nex	t Business	s Day)	-	-	•					
⊂uronns J3 Resources, In	c. 🕈 0110 West	. 34 ° St	ireet 🕈 Hous	ston, ⊺€	exas //0	is∡ ▼ tei: 713	-290-0221 + 🕽	ax: /13-	290-	UZ48		_		

IH CHAIN OF CUSTODY

🛟 eurofins

J3 Resources

Project Name WY Rollingstock Inspections Project Number 215WY001 - D&

SAMPLE IDENTIFICATION

Page ____ of ____

	VOLUME/CONDITIO		
Caulking			
Ext Window frames			
Fiberboard			
Int. around boiler			
Bakalite			
Int. breaker box			
Black flooring			
Int. floor throughout	,		
Gray tar			
Roof			
	Ext. Window frames Fiberboard Int. around boiler Bakalite Int. breaker box Black flooring Int. floor throughout Gray tar		

Eurofins J3 Resources, Inc. + 6110 West 34th Street + Houston, Texas 77092 + tel: 713-290-0221 + fax: 713-290-0248 Eurofins J3 Resources, Inc. + 3113 Red Bluff Road +Pasadena, Texas 77503 + tel: 713-290-0223 + fax: 713-290-0248

Eurofins J3 Resources, Inc.

3113 Red Bluff Road Pasadena, Texas 77503 Phone: (713) 290-0223 – Fax: (832) 831-5669 *j3resources.com*



J3 Resources

<u>Lead in Paint Performed by</u> Flame AA – USEPA SW846 7420/3050B (Mod.)

Amanda Wozab Earth Services & Abatement, Inc. 6700 E. 50th Avenue Commerce City, CO 80022

Order #:	JP211028586
Project #:	215WY001
Receipt Date:	21-Jul-2021
Analysis Date:	22-Jul-2021
Report Date:	23-Jul-2021

WY Rollingstock Inspections-D&RGW 01476

SAMPLE ID	PAINT COLOR	LEAD CONCENTRATION (mg/kg)	LEAD CONCENTRATION (%)
CHE-DRGW01476-170721-001L	Green	370	0.037%
CHE-DRGW01476-170721-002L	Orange	64000	6.4%
CHE-DRGW01476-170721-003L	White	30000	3%
CHE-DRGW01476-170721-004L	Black	980	0.098%

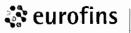
Reporting Limit = 50.0 mg/kg N/A = Not Applicable INS = Insufficient Sample Weight NS = Not Submitted

Analyst: Shervin Aghaabbasi

Scott Ward, Ph.D. Lab Director

This report relates only to the samples submitted. The analysis has been conducted according to the method(s) listed above. Blank corrections are not applied to data unless requested by the customer. This report is for the exclusive use of the addressed customer and shall not be reproduced except in full without written approval by Eurofins J3 Resources, Inc. (EJ3). EJ3 is an EPA NLLAP recognized lab by the AIHA-LAP, LLC ELLAP (Lab ID: 157714). Unless otherwise noted, all quality control samples performed within specifications established by the laboratory. The estimated accuracy is solely based on recovery data from internal laboratory control samples at the 95% confidence interval of the level of concern, derived from a 287 mg/kg lead in paint matrix reference material. The estimated accuracy does not account for uncertainty associated with the sampling process. Accuracy = +/-9%

IH CHAIN OF CUSTODY



J3 Resource

🗌 Open La	ab Fee		2	65	566	yily)		
Submitter Name:	Joseph Kulm		-		Bill to:	Same		
Company:	Earth Service	es & Al	batement, lic		Address:			
Address:	6700 E 50th A	ve						
					City/State		Zi	ip:
City/State: Cor	nmerce City , C	:0	Zip: ⁸⁰⁰²	2	1 -	15WY001		
					Informati	on	2.4 J	
Project Name: WY	Rollingstock Ins	spectio	ons		Proje	ct Manager: Ama	nda Wozab	
Project #: 215WY0					Telep	hone – Office/Ce	II 402-578-6	858
Reports - Email Add	ress: amanda	wozat	@esasite.com,	josepł	n.kulm@es	asite.com, robert	.szynskie@e	sasite.com
Invoice - Email Add	ress: same				Noti	fication By: Em	ail: 🗉 V	erbal: 🛛
Special Instructions	· ·		- 11-		, I		4.1	
		· · · ·	Turnaround	Times	5 — Pleas	e Select One		
Emergency*	□ 1	Day		2 Day	/ 🗆	3 Day	Ø	5 Day 🛛
		-		ASB	ESTOS			
PLM - Bulk	PCM -	Air	TEM - Air	TE	M - Bulk	TEM - Water	TEM - Dus	st Soil/Vermiculite/Ore
EPA 600/R-93/116 Visual Estimation (< 400 Point Count 0.2 1,000 Point Count 0 Gravimetric Reducti Matrix Reduction (+ NIOSH 9002 OSHA ID-191	5% O ISO 8673 0.1% O OSHA IE ion	7201 2	 ○ AHERA ○ NIOSH 7402 ○ ASTM D6281 ○ ISO 10312 ○ ISO 13794 	Red O Matr Red O Qua o Dro	vimetric uction (<1%) rix uction (+/-) litative (+/-) op Mount ration	O EPA 100.2 Drinking Water o >10 µm fibers o ≥0.5 µm fibers EPA 100.2 Effluent / WW Received on ice: o Yes o No Temp:	 ASTM D574 Microvac ASTM D644 Wipe 600/J-93/16 Carpet - EPJ Bulk Dust Qualitative 	O ASTM 7521-TEM (<1%) O CARB 435-Modified O Soil PLM Only (+/-) O Vermiculite - TEM (+/-)
	· · ·		METALS				SILIC	A/PARTICULATES
Flame	AA	Gr	aphite Furnace	ĀA -		ICP	X-Ray I	Diffraction / Gravimetric
LEAD Lead in Paint - SW846 7420/3050B O Drinking Water - EPA 200.9 Lead in Air - NIOSH 7082 O Wastewater - SW846-7421 Lead in Wipes - SW846 7420/3050B O Soil/Sludge - SW846-7421 Lead in Soil - SW846 7420/3050B O Air - NIOSH 7105 TCLP - SW846-1311/6010B Air - NIOSH 7105		 O Elements in Air – NIOSH 7300 O Wipe/Soil – SW846-6010B O Effluent – SW846-6010B O Welding Fume – NIOSH 7300M O RespirableCrystallineSilica NIOSH 7500 / OSHA 142 O RespirableCrystallineSilica NIOSH 7500 / OSHA 142 O NIOSH 0500 – Total Particulates O NIOSH 0600 – Respirable Particulates 						
Total Number o	of Samples	Subm	nitted: 4		Positiv	e Stop: 🛛	YES [NO NO
Relinquished By: Received By: Relinquished By:	- An	A	48-	Sigi	natures	Dati Dati Dati	e: 7/20/2	
Received By: * Emergency TAT requin **TAT's are in Business Eurofins J3 Resources	Days rather than Ho	urs (i.e.1	Day TAT = End of Nex	ct Busines	is Day)		ency rate.	Time:

Eurofins J3 Resources, Inc. + 3113 Red Bluff Road + Pasadena, Texas 77503 + tel: 713-290-0223 + fax: 713-290-0248

IH CHAIN OF CUSTODY

Project Name WY Rollingstock Inspections

Project Number 215WY001 - D&

SAMPLE IDENTIFICATION

Page ____ of ____

SAMPLE NUMBER	SAMPLE LOCATION / MATERIAL	VOLUME/CONDITION
CHE-DRGW01476-170721-001L	Green	
	Int. throughout	
CHE-DRGW01476-170721-002L	Orange	
	Ext. car	
CHE-DRGW01476-170721-003L	White	
	Handrails	
CHE-DRGW01476-170721-004L	Black	
	Ext. Undercarriage	
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Eurofins J3 Resources, Inc. + 6110 West 34th Street + Houston, Texas 77092 + tel: 713-290-0221 + fax: 713-290-0248 Eurofins J3 Resources, Inc. + 3113 Red Bluff Road + Pasadena, Texas 77503 + tel: 713-290-0223 + fax: 713-290-0248 LIMS Version: 7.020

Monday, August 09, 2021

Amanda Wozab Earth Services & Abatement 6700 E. 50th Ave. Commerce City, CO 80022

Re: ALS Workorder: 2107401 Project Name: Cheyenne RS Project Number: 215WY001

Dear Ms. Wozab:

One solid sample was received from Earth Services & Abatement, on 7/21/2021. The sample was scheduled for the following analysis:

PCBs

The results for these analyses are contained in the enclosed reports.

The data contained in the following report have been reviewed and approved by the personnel listed below. In addition, ALS certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental.

Thank you for your confidence in ALS Environmental. Should you have any questions, please call.

Sincerely,

ALS Environmental Katie M. OBrien Project Manager





2107401

PCB:

The sample was analyzed using GC/ECD (electron capture detectors) according to the current revision of SOP 409 based on SW-846 Method 8082.

All acceptance criteria were met.

Sample Number(s) Cross-Reference Table

OrderNum: 2107401 Client Name: Earth Services & Abatement Client Project Name: Cheyenne RS Client Project Number: 215WY001 Client PO Number:

Client Sample Number	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
CHE-DRGW01476-170721-001P;	2107401-1		SOLID	17-Jul-21	10:00

Group	Colorado 8052
ALS Laboratory	225 Commerce Drive Fort Collins Colorado 2052
	1

Chain-of-Custody



80524	EX: (970) 490-1522
Colorado	511 EX: (97
Fort Collin	(970) 490-1511
225 Commerce Drive,	3-1511 PH
225 Comm	TF (800) 44

			- E						Form 202r8			•	
1000		SAM	SAMPLER JOSE	Joseph Kulm			Series S	DATE	:	PAGE	-	5	-
PROJECT NAME	PROJECT NAME Cheyenne RS	Ø	SITE ID D&R	D&RGW 01476			2	TURNAROUND	5 Day	DISPOSAL	L By Lab or		Return to Client
PROJECT No.	215WY001	EDD FORMAT	RMAT				L						
		PURCHASE ORDER	RDER										
COMPANY NAME	Earth Services & Abatement	BILL TO COMPANY		Earth Services & Abatement	atement								
SEND REPORT TO		INVOICE ATTN TO	IN TO		25								
ADDRESS	6700 E. 50th Ave.	ADD	ADDRESS 6700	6700 E. 50th Ave.									
CITY / STATE / ZIP	Commerce City, CO 80022	CITY / STATE / ZIP	1 2018	Commerce City, CO 80022	80022		-						
PHONE	303-991-1280	ā	PHONE 303-9	303-991-1280									
FAX	303-991-1282		FAX 303-9	303-991-1282			82						
E-MAIL	Amanda Wozab@esasite com Joseph Kulm@ESAsite com	Ű	E-MAIL.				PCB by 80			· · · · · · · · · · · · · · · · · · ·			
e e	Field D	Matrix	Sample Date	Sample Time	Bottles	Ares.	e Tark of Milder a						
	CHE-DRGW01476-170721-001P; Caulk	S	07.17.21	1000			×					_	
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						-							
												<	
						2.55	<u>*</u>						
*Time Zone (Circle): EST C	CST MST PST Matrix O = oil S = soil NS = non-soil soild W = water L = liquid E =	vlid W = water L = liquiv	d E = extract F = filter	F = filter		-							
For metals or anions, p	For metals or anions, please detail analytes below.						ζ	SIGNATURE	0	PRINTED NAME	DATE	ш	TIME
Comments:		QC PACKA	QC PACKAGE (check below)	6	RELIN	RELINQUISHED BY		m AX	🗸 Joseph Kulm		12	6	
			LEVEL II (Standard QC)	ŷ		RECEIVED BY	5	102	Ast	h Esten	11211	121 (0945

1-HCI 2-HNO3 3-H2SO4 4-NaOH 5-NaHSO4 7-Other 8-4 degrees C 9-5035

	SIGNATURE	PRINTED NAME	DATE	TIME
RELINQUISHED BY	Mr. 92	Joseph Kulm	61/2	
RECEIVED BY	2011	Josh Ellen	12/14	0945
RELINQUISHED BY				
RECEIVED BY				
RELINQUISHED BY				
RECEIVED BY				



ALS Environmental - Fort Collins CONDITION OF SAMPLE UPON RECEIPT FORM

1. Are airbills / shipping documents present and/or removable? X Tracking number: 2815 9831 3879 X 2. Are custody seals on shipping containers intact? X 3. Are custody seals on sample containers intact? X 4. Is there a COC (chain-of-custody) present? X 5. Is the COC in agreement with samples received? (IDs, dates, times, # of samples, # of containers, matrix, requested analyses, etc.) X 6. Are short-hold samples present? X 7. Are all samples within holding times for the requested analyses? X 8. Were all sample containers for requested analyses? X 9. Is there sufficient sample for the requested analyses? X 10. Are samples in proper containers for requested analyses? (form 250, Sample Handling Guidelines) X 11. Are all aqueous samples preserved correctly, if required? (excluding volatiles) X 12. Are all samples requiring no headspace (VOC, GRO, RSK/MEE, radon) free of bubbles X 13. Were the samples shipped on ice? IP min X	(ALS)										
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Project Manager Signature / Date:	·		•							Time:	•
	Project Manager Si	gnatur	e / Date:	lh	,50 A					1/2	1/21
	2 3 4	~	•	1					_		

Collection Date: 7/17/2021 10:00

Client:

Project:

Sample ID:

Legal Location:

Earth Services & Abatement

CHE-DRGW01476-170721-001P; Caulk

215WY001 Cheyenne RS

SAMPLE SUMMARY REPORT

Date: 09-Aug-21

Work Order: 2107401

Lab ID: 2107401-1

Matrix: SOLID

Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBs		SW8	082	Prep	Date: 7/30/2021	PrepBy: CPC
AROCLOR-1016	ND		2.2	MG/KG	6	8/6/2021 13:17
AROCLOR-1221	ND		4.3	MG/KG	6	8/6/2021 13:17
AROCLOR-1232	ND		2.2	MG/KG	6	8/6/2021 13:17
AROCLOR-1242	ND		2.2	MG/KG	6	8/6/2021 13:17
AROCLOR-1248	ND		2.2	MG/KG	6	8/6/2021 13:17
AROCLOR-1254	ND		2.2	MG/KG	6	8/6/2021 13:17
AROCLOR-1260	ND		2.2	MG/KG	6	8/6/2021 13:17
Surr: TETRACHLORO-M-XYLENE	71		69-129	%REC	6	8/6/2021 13:17
Surr: DECACHLOROBIPHENYL	75		55-135	%REC	6	8/6/2021 13:17

ALS -- Fort Collins LIMS Version: 7.020

SAMPLE SUMMARY REPORT

Client:	Earth Services & Abatement				Date: 09-A	ug-21				
Project:	215WY001 Cheyenne RS				Work Order: 21074	401				
Sample ID:	CHE-DRGW01476-170721-001P; Caulk				Lab ID: 21074	401-1				
Legal Location:					Matrix: SOLI	D				
Collection Date:	7/17/2021 10:00			Perc	ent Moisture:					
Analyses	Result	Qual	Report Limit		Dilution Factor	Date Analyzed				
Radiochemistry:										
Explanation of (Radiochemistry:	Zuanners									
U or ND - Result is le	- "Report Limit" is the MDC U or ND - Result is less than the sample specific MDC.		M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC. L - LCS Recovery below lower control limit.							
U or ND - Result is less than the sample specific MDC. Y1 - Chemical Yield is in control at 100-110%. Quantitative yield is assumed.			· · · · · · ·	H - LCS Recovery above upper control limit.						
Y2 - Chemical Yield	-	H-	LCS Recover	, ,,						
Y2 - Chemical Yield o W - DER is greater th	butside default limits. Dan Warning Limit of 1.42	H - P -	LCS Recover	pike Recovery	within control limits.					
Y2 - Chemical Yield o W - DER is greater th * - Aliquot Basis is 'A	butside default limits. nan Warning Limit of 1.42 s Received' while the Report Basis is 'Dry Weight'.	H - P - N -	LCS Recover LCS, Matrix S Matrix Spike I	pike Recovery Recovery outsid	within control limits. de control limits	MDC				
Y2 - Chemical Yield o W - DER is greater th * - Aliquot Basis is 'A # - Aliquot Basis is 'D	butside default limits. Dan Warning Limit of 1.42	H - P - N - NC	LCS Recover LCS, Matrix S Matrix Spike I C - Not Calcula	pike Recovery Recovery outsid	within control limits. de control limits e results less than 5 times	MDC				
Y2 - Chemical Yield o W - DER is greater th * - Aliquot Basis is 'A # - Aliquot Basis is 'D	butside default limits. han Warning Limit of 1.42 s Received' while the Report Basis is 'Dry Weight'. hy Weight' while the Report Basis is 'As Received'. iffers by more than 15% of LCS density.	H - P - N - NC B -	LCS Recover LCS, Matrix S Matrix Spike I O - Not Calcula Analyte conce	Spike Recovery Recovery outsid ted for duplicat entration greate	within control limits. de control limits e results less than 5 times					

Inorganics:

B - Result is less than the requested reporting limit but greater than the instrument method detection limit (MDL).

U or ND - Indicates that the compound was analyzed for but not detected.

E - The reported value is estimated because of the presence of interference. An explanatory note may be included in the narrative.

M - Duplicate injection precision was not met.

N - Spiked sample recovery not within control limits. A post spike is analyzed for all ICP analyses when the matrix spike and or spike duplicate fail and the native sample concentration is less than four times the spike added concentration.

Z - Spiked recovery not within control limits. An explanatory note may be included in the narrative.

* - Duplicate analysis (relative percent difference) not within control limits.

S - SAR value is estimated as one or more analytes used in the calculation were not detected above the detection limit.

Organics:

U or ND - Indicates that the compound was analyzed for but not detected.

B - Analyte is detected in the associated method blank as well as in the sample. It indicates probable blank contamination and warns the data user.

E - Analyte concentration exceeds the upper level of the calibration range.

J - Estimated value. The result is less than the reporting limit but greater than the instrument method detection limit (MDL).

A - A tentatively identified compound is a suspected aldol-condensation product.

- X The analyte was diluted below an accurate quantitation level.
- * The spike recovery is equal to or outside the control criteria used.
- + The relative percent difference (RPD) equals or exceeds the control criteria.
- G A pattern resembling gasoline was detected in this sample.
- D A pattern resembling diesel was detected in this sample.
- M A pattern resembling motor oil was detected in this sample.
- C A pattern resembling crude oil was detected in this sample.
- 4 A pattern resembling JP-4 was detected in this sample.
- 5 A pattern resembling JP-5 was detected in this sample.
- H Indicates that the fuel pattern was in the heavier end of the retention time window for the analyte of interest.
- L Indicates that the fuel pattern was in the lighter end of the retention time window for the analyte of interest.
- Z This flag indicates that a significant fraction of the reported result did not resemble the patterns of any of the following petroleum hydrocarbon products: gasoline
- JP-8
- diesel
- mineral spirits
- motor oil
- Stoddard solvent - bunker C

Client:	Earth Services & Abatement
Work Order:	2107401
Project:	215WY001 Cheyenne RS

QC BATCH REPORT

Batch ID: EX210730-3-1	Instrument ID: Pes	st-1		Method: S	W8082						
LCS Sample ID: EX21073	0-3			U	Inits: MG/K	G	Analy	sis Date: 8	/6/2021	14:13	
Client ID:	Run II	D: PT210806-1	1			I	Prep Date: 7/3	0/2021	DF	: 1	
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qual
AROCLOR-1016	0.133	0.0333	0.133		99	80-120				50	
AROCLOR-1260	0.137	0.0333	0.133		103	80-125				50	
Surr: TETRACHLORO-M-XYLENE	0.0152		0.0167		91	69-129					
Surr: DECACHLOROBIPHENYL	0.0187		0.0167		112	55-135					
LCSD Sample ID: EX21073	0-3			U	Inits: MG/K	G	Analy	sis Date: 8	/6/2021	14:32	
Client ID:	Run II	D: PT210806-1	1			I	Prep Date: 7/3	0/2021	DF	: 1	
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qual
AROCLOR-1016	0.125	0.0333	0.133		94	80-120		0.133	6	50	
AROCLOR-1260	0.131	0.0333	0.133		99	80-125		0.137	4	50	
Surr: TETRACHLORO-M-XYLENE	0.015		0.0167		90	69-129			1		
Surr: DECACHLOROBIPHENYL	0.0178		0.0167		107	55-135			5		
MB Sample ID: EX21073	0-3			U	Inits: MG/K	G	Analy	sis Date: 8	/6/2021	11:25	
Client ID:	Run II	D: PT210806-1	1			I	Prep Date: 7/3	0/2021	DF	: 1	
Analyte	Result	ReportLimit									Qual
AROCLOR-1016	ND	0.033									
AROCLOR-1221	ND	0.067									
AROCLOR-1232	ND	0.033									
AROCLOR-1242	ND	0.033									
AROCLOR-1248	ND	0.033									<u>.</u>
AROCLOR-1254	ND	0.033									
AROCLOR-1260	ND	0.033									
Surr: TETRACHLORO-M-XYLENE	0.0158				95	69-129					
Surr: DECACHLOROBIPHENYL	0.0178				107	55-135					

The following samples were analyzed in this batch:

2107401-1

Appendix 3 - Modified Sawyer Algorithm

Report Date	08/10/2021
Rolling Stock Type	Caboose
Rolling Stock No	D&RGW 01476

SAWYER ALGORITHM PRIORITY

Asbestos Potential Exposure and Priority Level Algorithm

Aspestos Potential Exposure and Prior Asset Number	D&RGW 01476	D&RGW 01476
Exposure Area	Exterior window frames	Roof penetrations
Asbestos Containing Material	Gray/black window caulk□	Black tar⊡
-	CHE-DRGW01476-170721-001 thru	CHE-DRGW01476-170721-013 thru
Sample Number Size	003	015
Quantity	NA 30 LF	NA 2 SF
•	30 EF	2 SF
MATERIAL CONDITION (MC) 0 = No damage, excellent condition 1 = Very minor damage, no visible debris 2 =Damage is evident, small area 3 =Damage is easily seen, some debris 4 =Damage is widespread, debris is common 5 =Most or all material is damaged, hanging, and / or found as debris throughout the area	2	2
BUILDING AGE (BA)	1	1
1 =>30 years old 0 =15 - 30 years old -1 =<15 years old		
MATERIAL TYPE		
Pipe Covering (PC) 1 =MAG/CAL Silicate -1 =Air Cell / paper	NA	NA
Ceiling Plasters or Fireproofing (CP)	NA	NA
-1 =Cementitious (Monocoat) 0 =Standard	NA NA	
1 ="Cotton Candy" texture	· · · · · · · · · · · · · · · · · · ·	-
WATER DAMAGE (WD) 0 =No water damage 1 =Small amount of damage can be seen; damage is localized rather than widespread 2 =Good deal of water damage; widespread	0	0
ROOF CHARACTERISTICS (RC)	-0.5	-0.5
-0.5 =Sloped or Hipped -0.5 =Metal or Concrete 0.5 =Flat or Built-up		
EXPOSED SURFACE AREA (ESA)	4	4
 0 =Material behind a permanent enclosure 2 =Material behind a lay-in ceiling or in open tunnel 4 =Material is exposed 		
ACCESSIBILITY (AC)	4	3
0 =Totally inaccessible 1 =Can only reach with hands, ie. pipe chase 2 =An open tunnel or above a drop ceiling 3 =Exposed overall, but can't reach, ie. >10' high 4 =Material is out in the open and <10' high		
ACTIVITY AND MOVEMENT (A/M)	2	1
0 =No occupants enter the area 1 =Area is accessed infrequently 2 =Area is accessed frequently		
WORK ENVIRONMENT (WE)	0.5	0.5
-0.5 =Sedentary 0.5 =Non-sedentary		
SOUND AND MECHANICAL VIBRATIONS (SMV) 0.5 =Frequent or Constant	0.5	0.5
-0.5 =No recognizable vibration AIR - PLENUM / AIR STREAM (AP)	1	1
0 =No air plenum or air flow 1 =Air plenum or air flow exists	<u> </u>	<u>, , , , , , , , , , , , , , , , , , , </u>
VELOCITY (if Air Plenum = 1) (VEL) 0.25 =Recognizable by human feeling -0.25 =Non-recognizable by human feeling	-0.25	-0.25
FLOW (if Air Plenum = 1) (FL)	NA	NA
-0.25 =Constant, steady stream 0.25 =Impact, gusty flow		
FRIABILITY (F) 1 =Very hard to crumble under hand pressure 2 = Will crumble under a little hand pressure 3 =Extremely court to arruphe under light pressure	1	1
3 =Extremely easy to crumble under light pressure		4
ASBESTOS CONTENT (ASB) 0 =None <1% 1 =1% to 10% Asbestos 2 =11% to 50% Asbestos 3 =51% to 100% Asbestos	11	1
Exposure Value	14.25	12.25
Rating	4	4



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Specializing in environmental services and demolition

August 10th, 2021

Union Pacific Railroad Asbestos Program c/o GHD 3807 South 148th Street Omaha, NE 68144

RE: WY, Cheyenne, Rollingstock D&RGW 01481, Requested NESHAP Inspection Earth Services & Abatement Project Number: 215WY001

To Whom It May Concern,

Please find our NESHAP report for the above-mentioned requested inspection. Earth Services & Abatement's Joseph Kulm inspected UPRR railcar D&RGW 01481 for suspect asbestos-, lead-, and PCB-containing materials. The inspection work took place on July 16th, 2021.

No previous reports were provided for review prior to inspection.

Refer to the report for a summary of this inspection, including inspection/lab results, inspection photographs, and schematics.

If you have any questions or need anything else for this project, please do not hesitate to contact us.

Conducted by,

Jospeh Kulm Inspector Earth Services & Abatement

Reviewed by,

Best Syphie

Robert Szynskie Program Director Earth Services & Abatement Robert.szynskie@esasite.com Cell – 720-206-9238

	Rolling Stock	Asbe	estos Inspe	ection	Report		
				Inspec	ction Start Date	07/16/202	21
BUILDING AMERICA ^{**} Inspection Type				Inspec	ction End Date	07/16/202	21
X Initial Inspection	Reinspection	X NE	SHAP Inspection	Repor	t Date	08/10/202	21
Inspection Comp	•						
Company Earth S	ervices & Abatement		License No.	16608			
Address 6700 E 50	Oth Ave		City Comm	nerce City	,		
			State CO	Z	Zip <u>80022</u>		
Inspector Informa	ation						
First Name Joseph		Las	t Name Kulm				
License Type AHE	ERA License No.	C6LEMQ	A0R3U	Lice	nse State		
Asset Information	1						
Rolling Stock Type	Caboose						
Rolling Stock No	D&RGW 01481		Car Name	D&RGV	V; 01481		
Yard Name	Cheyenne		Subdivision	Unknov	vn		
Address	East Union Pacific Ave.		Mile Post	Unknov	vn		
City	Cheyenne		Latitude	41.1292	246°		
State	WY		Longitude	-104.81	7541°		_
Zip Code	82001						
Key Contacts							
Name	Phone Number	Comp	any		Role/Responsibili	ty	
Kulm,Joseph	303-991-1280	Earth	Services & Abate	ment	Inspector		
Szynskie,Robert	303-991-1280	Earth	Services & Abate	ment	Program Director		
Dickens,Edgar	307-214-3545	UPRF	2		Local Contact		
Inspection Limita	tions						
was limited by the u	ere made to conduct a com se of hand-tools and some ole. If additional suspect ma may be required.	additiona	al suspect materia	lls may be	e present in areas r	not	

	Ψ				U U	Stock Type g Stock No	Caboose D&RGW 0	1/81
BUILDING A					T(OIIII)	y Slock No	Darrow, o	1401
	stos Results	T (1 N) - 1						
ACM Pre			f ACM Components. ¹ 2		_			
Total Nur Notes	mber of Materials Containin	g <= 1% Asbestos.	0					
	ase note the material descr	iptions herein are more c	lescriptive than that on the chai	n-of-custody in a	order to provid	le distinguis	hing material	
		•	RGW01481-160721-013 thru 0			•	•	
	Asbestos Sam	ples						
Sample Date	Sample ID	Description	Location	Asbestos Result ²	ACM Category	Friable	Quantity	Modified Algorithn Number
	CHE-DRGW01481-1607 21-001 thru 003	Black/brown window caulk	Exterior window seams	Not Detected	N/A	N/A	48 LF	N/A
	CHE-DRGW01481-1607 21-004 thru 006	White sheet flooring and yellow mastic	Floor throughout interior	Not Detected	N/A	N/A	200 sq. ft.	N/A
	CHE-DRGW01481-1607 21-007 thru 009	White/brown sealant	Roof penetrations	2.85%, Chrysotile	Category II	No	8 LF	4
	CHE-DRGW01481-1607 21-010 thru 012	Black Bakelite	Breakers	6%, Chrysotile	Category II	No	0.5 sq. ft.	4
	CHE-DRGW01481-1607 21-013 thru 015	Black mastic	Interior, pop-up section	Not Detected	N/A	N/A	12 sq. ft.	N/A
				Deteoled			12 09.10	

1 "ACM Present" is defined as material with >1% asbestos, except in California, where Asbestos-Containing Construction Material (ACCM) is defined as >0.1% asbestos.

2 For samples collected in sets, only the highest result is reported. Some of the collected samples may not have been analyzed. See the attached laboratory report for additional details.

3 "Lead Present" and "Positive" is defined as paint with $\ge 0.5\%$ lead.

4 "PCBs Present" and "Positive" is defined as caulk with \geq 50 ppm PCBs.

BUILDING AMERICA		Rolling Stock Asbestos Inspection Report		-	Report Date	08/10/2021 Caboose	
					Rolling Stock No	D&RGW	/; 01481
Lead-Base	d Paint Results						
Lead Present ³	Yes	Total Numb	ber of Positive Components. ³ 2				
Notes							
	Paint Samp	les					
Sample Date	Sample I	۱D	Description	Locatio		ead esult	Conditior
07/16/2021	CHE-DRGW01481-160	0721-001L	White	Interior	< 0.00	0500 %	Poor
07/16/2021	CHE-DRGW01481-160	J721-002L	Yellow	Exterior upper	rhalf 7.9 %	o	Poor
07/16/2021	CHE-DRGW01481-160	0721-003L	Black	Exterior lower undercarriage		7 %	Poor
07/16/2021	CHE-DRGW01481-160	0721-004L	Silver	Exterior handra	rails and 3.9 %	, 0	Poor

Interior popup stairs and

trim

0.19 %

Poor

Polychlorinated Biphenyls Results

PCBs Present ⁴	No	Total Number of Positive Components. ⁴
---------------------------	----	---

CHE-DRGW01481-160721-005L

Notes

07/16/2021

PCBs Samples

	i ese eampiee				
Sample Date	Sample ID	Description	Location	PCBs Result	Quantity
07/16/2021	CHE-DRGW01481-160721-00 1P	Black/brown window caulk	Exterior window seams	Not Detected	48 LF

0

1 "ACM Present" is defined as material with >1% asbestos, except in California, where Asbestos-Containing Construction Material (ACCM) is defined as >0.1% asbestos.

Gray

2 For samples collected in sets, only the highest result is reported. Some of the collected samples may not have been analyzed. See the attached laboratory report for additional details.

3 "Lead Present" and "Positive" is defined as paint with $\geq 0.5\%$ lead.

4 "PCBs Present" and "Positive" is defined as caulk with \geq 50 ppm PCBs.

	Rolling Stock Asbestos Inspection Report Report Date	08/10/2021
	Rolling Stock Type	Caboose
	Rolling Stock No	D&RGW 01481
Mold Results		
Suspect Mold Present	No	
Notes		

1 "ACM Present" is defined as material with >1% asbestos, except in California, where Asbestos-Containing Construction Material (ACCM) is defined as >0.1% asbestos.

2 For samples collected in sets, only the highest result is reported. Some of the collected samples may not have been analyzed. See the attached laboratory report for additional details.

3 "Lead Present" and "Positive" is defined as paint with $\geq 0.5\%$ lead.

4 "PCBs Present" and "Positive" is defined as caulk with \geq 50 ppm PCBs.



Rolling Stock Asbestos Inspection Report Asset Photos Report Date 08/10/2021

BUILDING AMERICA"



Railcar ID Marker



View of railcar, looking northeast

Rolling Stock Type

Caboose

Rolling Stock No D&RGW; 01481



View of railcar, looking west-northwest



View of car interior



Rolling Stock Asbestos Inspection Report Sample Photos Report Date 08/10/2021

BUILDING AMERICA**



CHE-DRGW01481-160721-001 thru 003, Asbestos Not Detected, Black/brown window caulk



CHE-DRGW01481-160721-004 thru 006, Asbestos Not Detected, White sheet flooring and yellow mastic



CHE-DRGW01481-160721-007 thru 009, 2.85% Asbestos, White/brown sealant

Caboose

Rolling Stock Type

Rolling Stock No D&RGW; 01481



CHE-DRGW01481-160721-001 thru 003, Asbestos Not Detected, Black/brown window caulk



CHE-DRGW01481-160721-004 thru 006, Asbestos Not Detected, White sheet flooring and yellow mastic



CHE-DRGW01481-160721-007 thru 009, 2.85% Asbestos, White/brown sealant

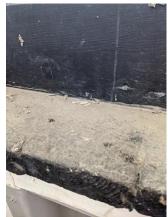


Rolling Stock Asbestos Inspection Report Sample Photos Report Date 08/10/2021

BUILDING AMERICA**



CHE-DRGW01481-160721-010 thru 012, 6% Asbestos, Black Bakelite



CHE-DRGW01481-160721-013 thru 015, Asbestos Not Detected, Black mastic

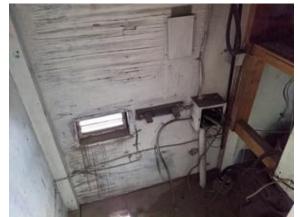


CHE-DRGW01481-160721-001L, <0.005% Lead, White

Rolling Stock Type

Caboose

Rolling Stock No D&RGW; 01481



CHE-DRGW01481-160721-010 thru 012, 6% Asbestos, **Black Bakelite**



CHE-DRGW01481-160721-013 thru 015, Asbestos Not Detected, Black mastic



CHE-DRGW01481-160721-001L, <0.005% Lead, White



Rolling Stock Asbestos Inspection Report Sample Photos Report Date 08/10/2021



CHE-DRGW01481-160721-002L, 7.9% Lead, Yellow



CHE-DRGW01481-160721-003L, 0.067% Lead, Black



CHE-DRGW01481-160721-004L, 3.9% Lead, Silver

Rolling Stock Type

Caboose

Rolling Stock No D&RGW; 01481



CHE-DRGW01481-160721-002L, 7.9% Lead, Yellow



CHE-DRGW01481-160721-003L, 0.067% Lead, Black



CHE-DRGW01481-160721-004L, 3.9% Lead, Silver



Rolling Stock Asbestos Inspection Report Sample Photos Report Date 08/10/2021

BUILDING AMERICA"



CHE-DRGW01481-160721-005L, 0.19% Lead, Gray



CHE-DRGW01481-160721-001P, PCB Not Detected, Black/brown window caulk

Caboose

Rolling Stock Type

Rolling Stock No D&RGW; 01481



CHE-DRGW01481-160721-005L, 0.19% Lead, Gray

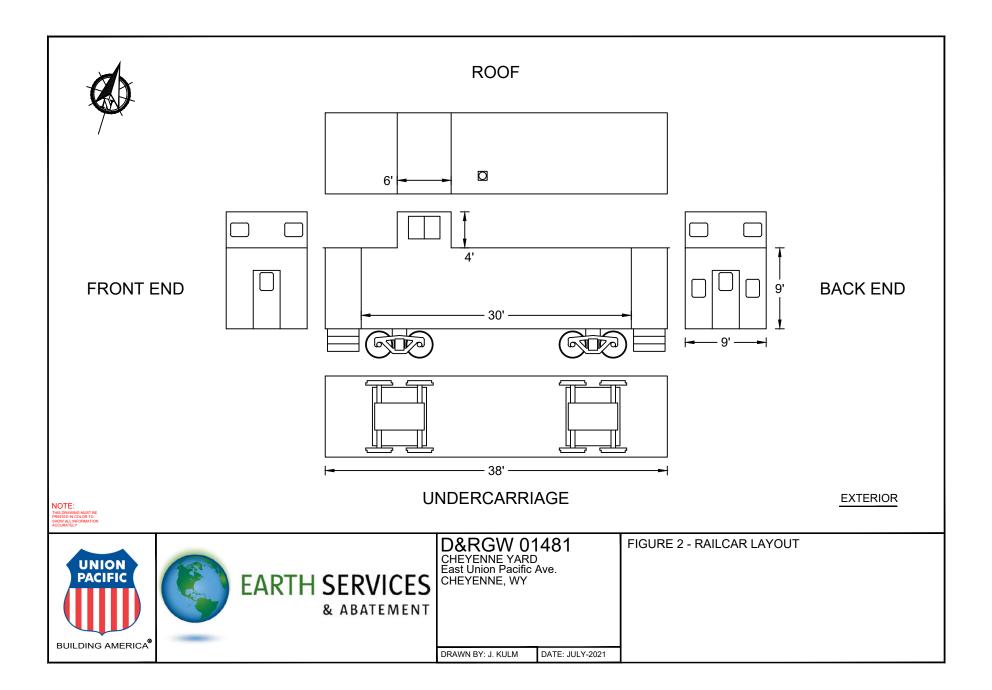


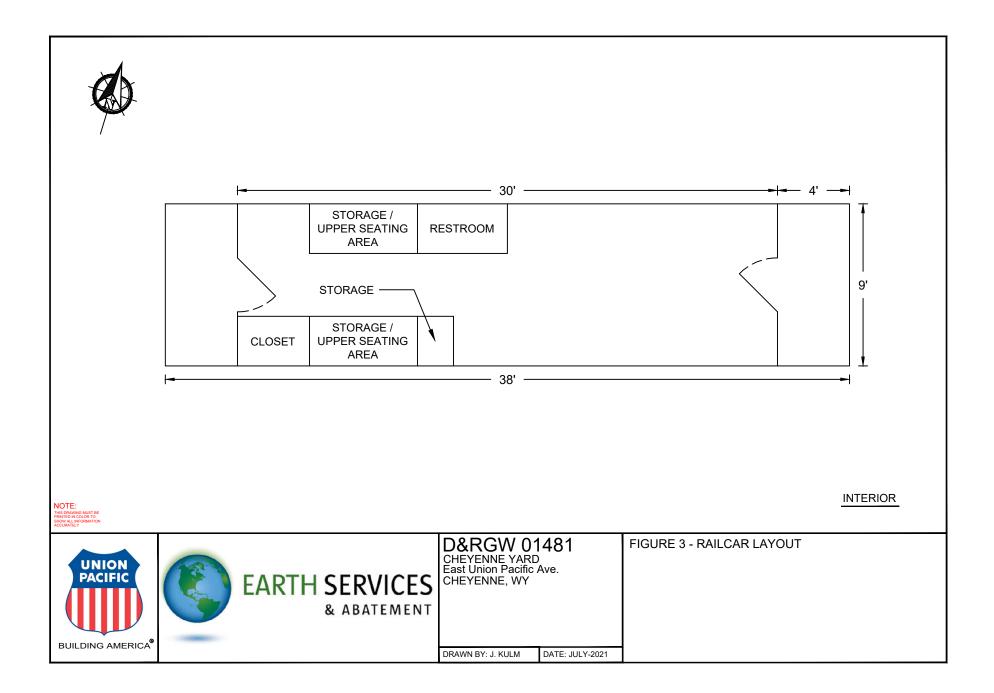
CHE-DRGW01481-160721-001P, PCB Not Detected, Black/brown window caulk

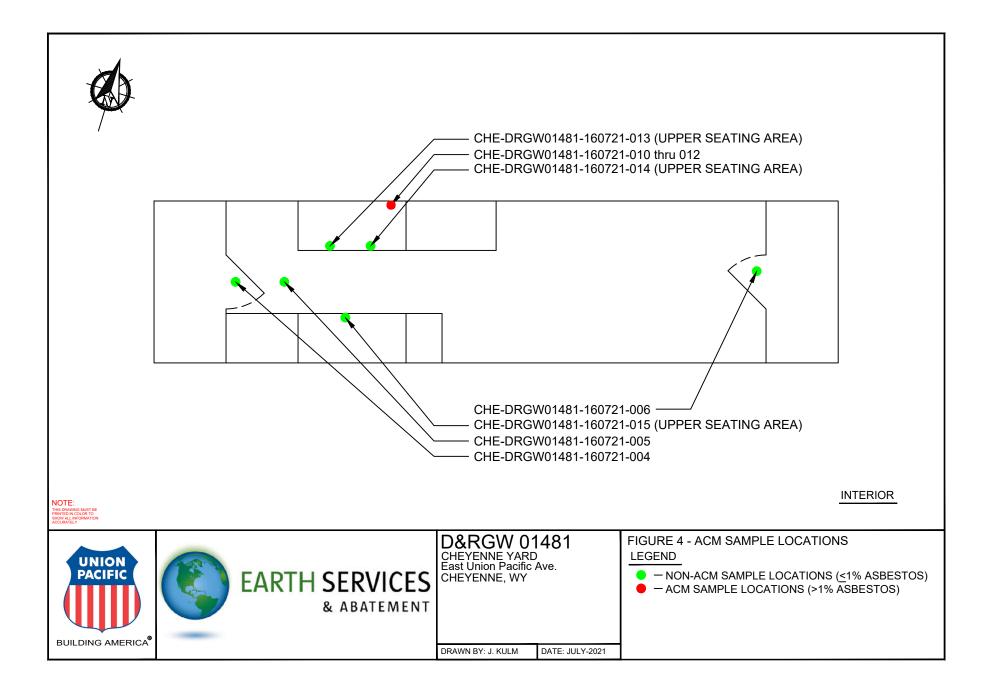
Appendix 1 - Figures

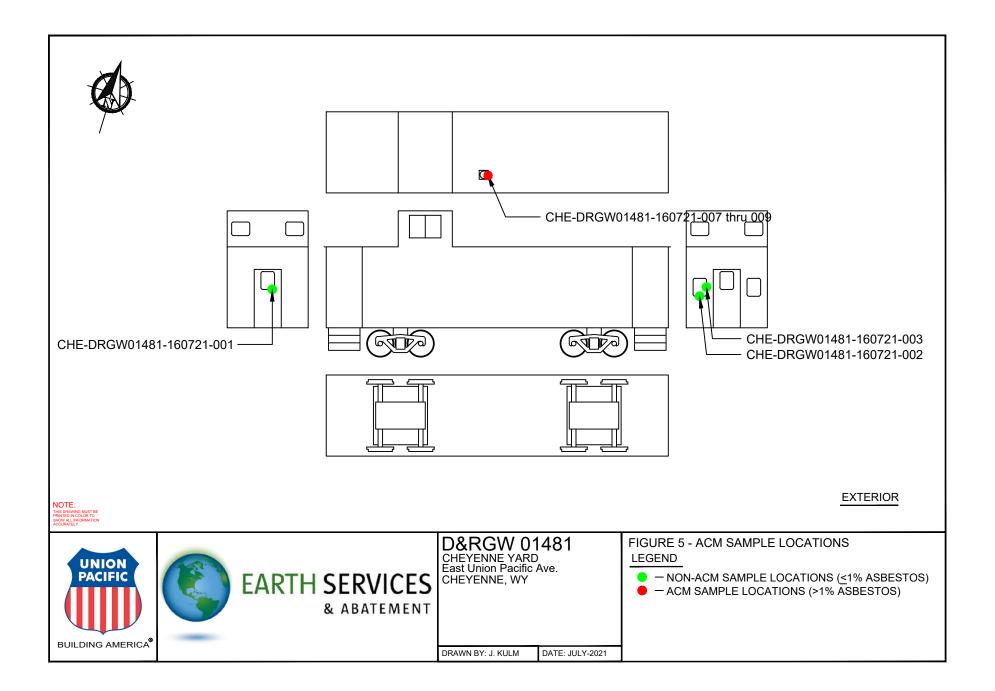
Report Date08/10/2021Rolling Stock TypeCabooseRolling Stock NoD&RGW; 01481

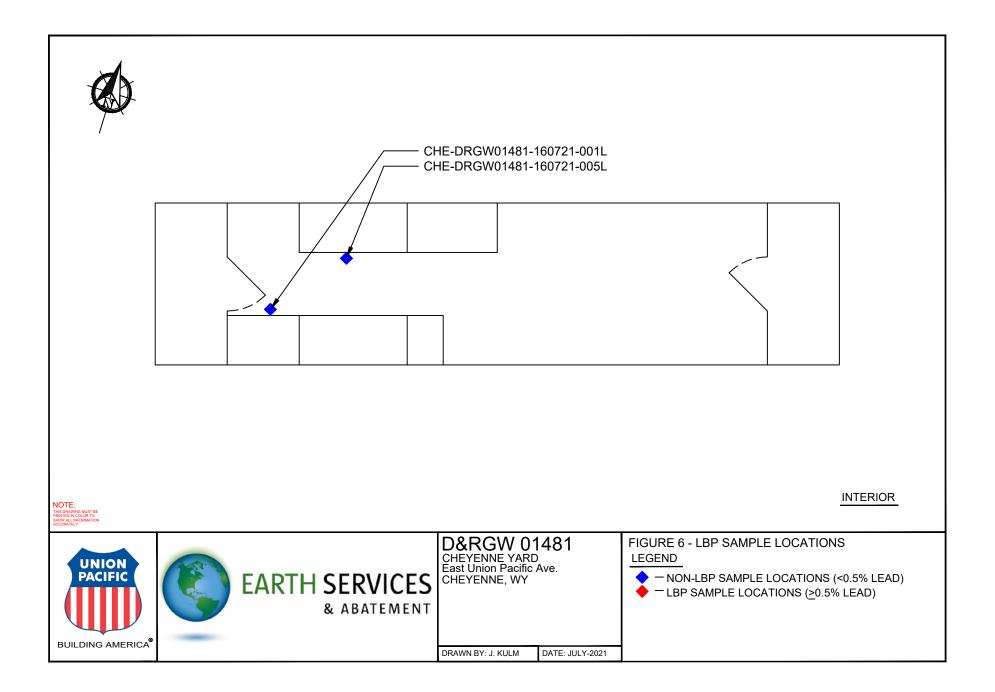


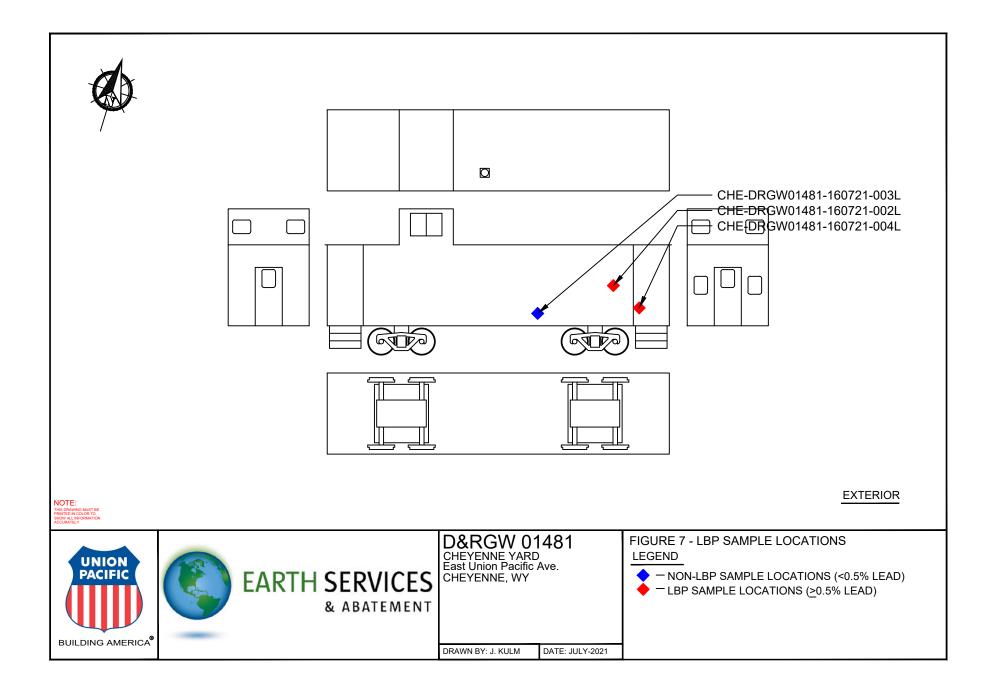


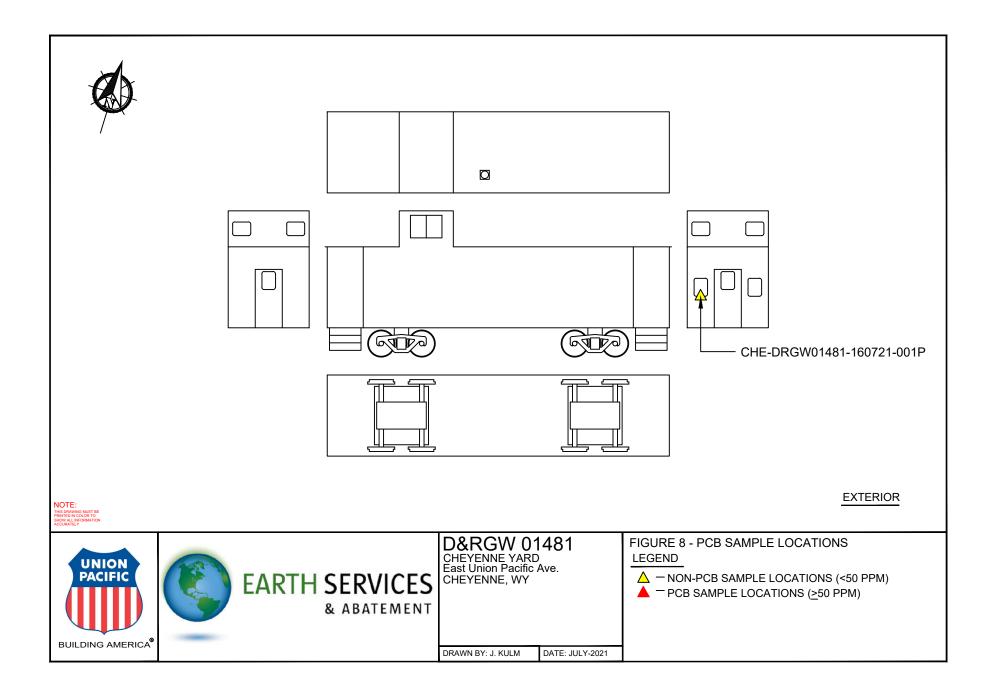


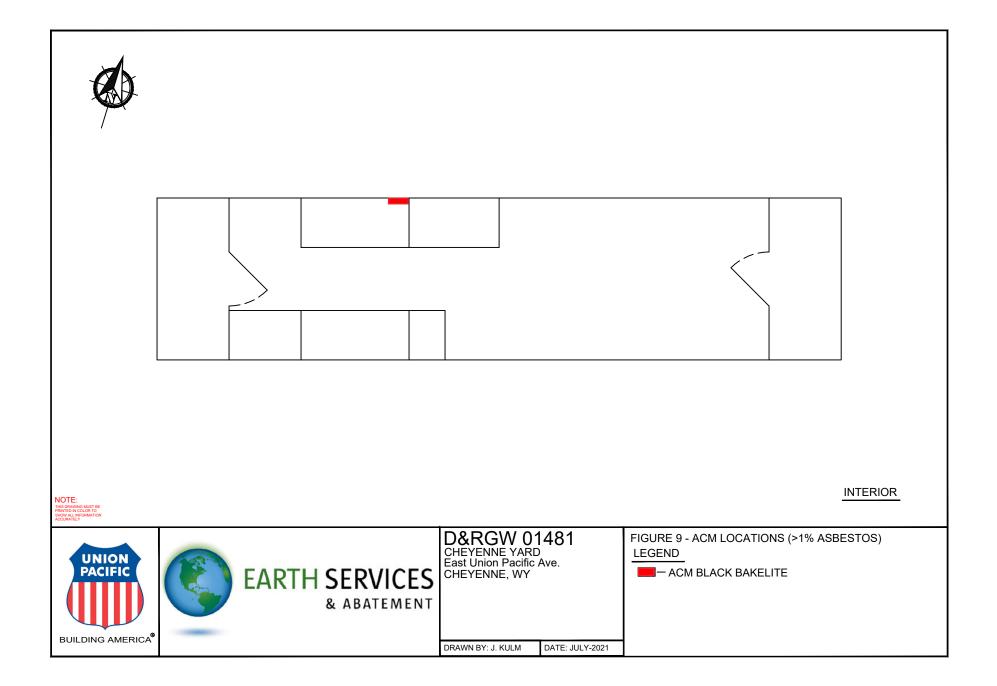


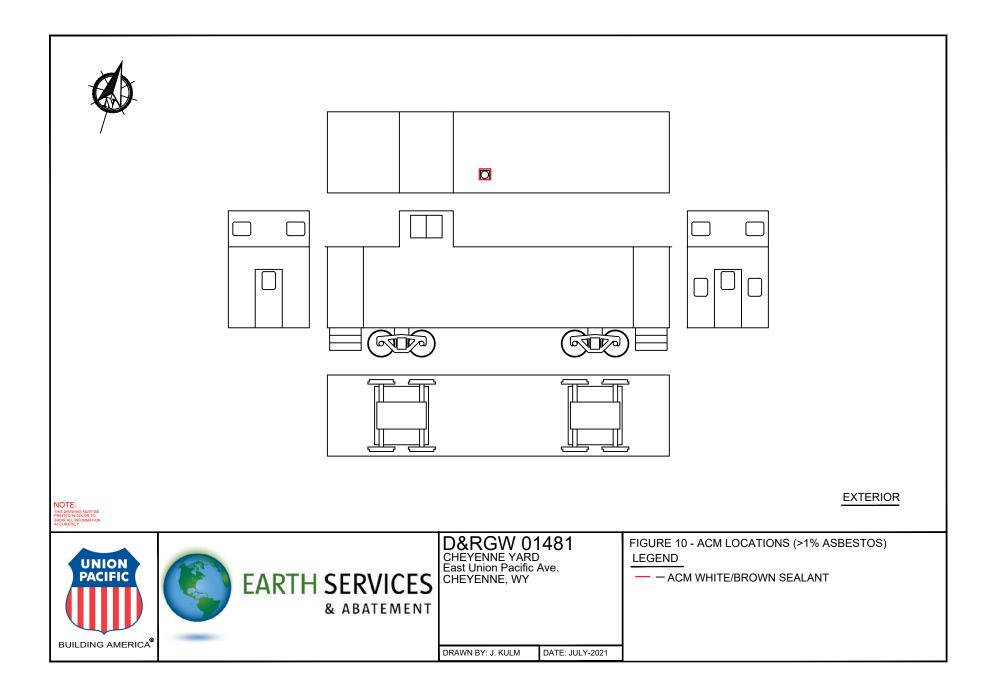












Appendix 2 - Lab Reports and Chain of Custody Receipts

Report Date	08/10/2021
Rolling Stock Type	Caboose
Rolling Stock No	D&RGW 01481

3113 Red Bluff Road, Pasadena, TX 77503 Phone: (713) 290-0223 - Fax: (713) 290-0248 *J3Resources.com*



Bulk Asbestos Fiber Analysis by Polarized Light Microscopy (PLM) EPA 600/M4-82-020; 600/R-93/116 - Point Count Method

Joseph Kulm Earth Services & Abatement, Inc. 6700 E. 50th Avenue Commerce City CO 80022
 Order #:
 JH21129248

 Project #:
 215WY001

 Date Received:
 20-Jul-2021

 Date Analyzed:
 22-Jul-2021

 Date Reported:
 23-Jul-2021

D&RGW 01481 WY Rollingstock Inspections

Sample ID #	Sample Description	Asbestos Constituents	5	Non-Asbestos Constituents	
CHE- DRGW01481- 160721-001	Caulking, Brown/ Black, Homogeneous	None Detected		Non-Fibrous Material	100%
CHE- DRGW01481- 160721-002	Caulking, Brown/ Black, Homogeneous	None Detected		Non-Fibrous Material	100%
CHE- DRGW01481- 160721-003	Caulking, Brown/ Black, Homogeneous	None Detected		Non-Fibrous Material	100%
CHE- DRGW01481- 160721-004	LAYER 1 Sheet Flooring, Tan/ Gray, Homogeneous	None Detected		Cellulose Fiber Fibrous Glass Non-Fibrous Material	30% <1 70%
	LAYER 2 Mastic, Yellow, Homogeneous	None Detected		Non-Fibrous Material	100%
CHE- DRGW01481- 160721-005	LAYER 1 Sheet Flooring, Tan/ Gray, Homogeneous	None Detected		Cellulose Fiber Fibrous Glass Non-Fibrous Material	30% <1 70%
	LAYER 2 Mastic, Yellow, Homogeneous	None Detected		Non-Fibrous Material	100%
CHE- DRGW01481- 160721-006	LAYER 1 Sheet Flooring, Tan/ Gray, Homogeneous	None Detected		Cellulose Fiber Fibrous Glass Non-Fibrous Material	30% <1 70%
	LAYER 2 Mastic, Yellow, Homogeneous	None Detected		Non-Fibrous Material	100%
CHE- DRGW01481- 160721-007 400 pt. POINT COUNT	Sealant, Brown/ Gray, Homogeneous Original PLM Result: Chrysotile 2%	Chrysotile	2.85%	Non-Fibrous Material	97.15%
	Gravimetric Reduction Pre	р			

Scott Ward, Ph.D. Lab Director

Juliann Johnson Ar

Analyst

These results apply to the sample(s) as received. This report is for the exclusive use of the addressed client and shall not be reproduced except in full, without written approval by Eurofins J3 Resources, Inc. (EJ3). Samples are analyzed according to the methods listed above and are subject to the inherent limitations of PLM and interference of matrix components. Reporting limit for the above method is a function of the quantity of sample analyzed, matrix interference, sample preparation, fiber size, and distribution. Asbestos may be detected in concentrations of <1% by area if sufficient material is analyzed. EJ3 recommends TEM confirmation of soils, verniculite and non-friable organically bound materials (NOB) reported as None Detected or < 1% Asbestos by PLM. All samples received in good condition unless otherwise noted. This report shall not be used to claim product approval, certification, or endorsement by NVLAP, NIST, or any agency of the federal government.

3113 Red Bluff Road, Pasadena, TX 77503 Phone: (713) 290-0223 - Fax: (713) 290-0248 *J3Resources.com*



Bulk Asbestos Fiber Analysis by Polarized Light Microscopy (PLM) EPA 600/M4-82-020; 600/R-93/116 - Point Count Method

Joseph Kulm Earth Services & Abatement, Inc. 6700 E. 50th Avenue Commerce City CO 80022
 Order #:
 JH21129248

 Project #:
 215WY001

 Date Received:
 20-Jul-2021

 Date Analyzed:
 22-Jul-2021

 Date Reported:
 23-Jul-2021

D&RGW 01481 WY Rollingstock Inspections

Sample ID #	Sample Description	Asbestos Constituents	S	Non-Asbestos Constituents	
CHE- DRGW01481- 160721-008 400 pt. POINT COUNT	Sealant, *Not analyzed per client request Original PLM Result: Chrysotile 2%				
	Gravimetric Reduction P	rep			
CHE- DRGW01481- 160721-009 400 pt. POINT COUNT	Sealant, *Not analyzed per client request Original PLM Result: Chrysotile 2%				
	Gravimetric Reduction P	rep			
CHE- DRGW01481- 160721-010	Bakelite, Black, Homogeneous	Chrysotile	6%	Non-Fibrous Material	94%
CHE- DRGW01481- 160721-011	Bakelite, *Not analyzed per client reque	st			
CHE- DRGW01481- 160721-012	Bakelite, *Not analyzed per client reque	st			
CHE- DRGW01481- 160721-013	LAYER 1 Flooring Mastic, Black, Homogeneous No Flooring Present	None Detected		Non-Fibrous Material	100%
	LAYER 2 Subfloor, Brown, Homogeneous	None Detected		Cellulose Fiber Non-Fibrous Material	90% 10%

Scott Ward, Ph.D. Lab Director

TDSHS License: 30-0457

Page 2 of 3

Juliann Johnson

Analyst

NVLAP Lab Code: 600120-0

These results apply to the sample(s) as received. This report is for the exclusive use of the addressed client and shall not be reproduced except in full, without written approval by Eurofins J3 Resources, Inc. (EJ3). Samples are analyzed according to the methods listed above and are subject to the inherent limitations of PLM and interference of matrix components. Reporting limit for the above method is a function of the quantity of sample analyzed, matrix interference, sample preparation, fiber size, and distribution. Asbestos may be detected in concentrations of <1% by area if sufficient material is analyzed. EJ3 recommends TEM confirmation of soils, verniculite and non-friable organically bound materials (NOB) reported as None Detected or < 1% Asbestos by PLM. All samples received in good condition unless otherwise noted. This report shall not be used to claim product approval, certification, or endorsement by NVLAP, NIST, or any agency of the federal government.

AIHA-LAP, LLC Lab ID: 157714

3113 Red Bluff Road, Pasadena, TX 77503 Phone: (713) 290-0223 - Fax: (713) 290-0248 *J3Resources.com*



Bulk Asbestos Fiber Analysis by Polarized Light Microscopy (PLM) EPA 600/M4-82-020; 600/R-93/116 - Point Count Method

Joseph Kulm Earth Services & Abatement, Inc. 6700 E. 50th Avenue Commerce City CO 80022
 Order #:
 JH21129248

 Project #:
 215WY001

 Date Received:
 20-Jul-2021

 Date Analyzed:
 22-Jul-2021

 Date Reported:
 23-Jul-2021

D&RGW 01481 WY Rollingstock Inspections

Sample ID #	Sample Description	Asbestos Constituents	Non-Asbestos Constituents	
CHE- DRGW01481- 160721-014	LAYER 1 Flooring Mastic, Black, Homogeneous No Flooring Present	None Detected	Non-Fibrous Material	100%
	LAYER 2 Subfloor, Brown, Homogeneous	None Detected	Cellulose Fiber Non-Fibrous Material	90% 10%
CHE- DRGW01481- 160721-015	LAYER 1 Flooring Mastic, Black, Homogeneous No Flooring Present	None Detected	Non-Fibrous Material	100%
	LAYER 2 Subfloor, Brown, Homogeneous	None Detected	Cellulose Fiber Non-Fibrous Material	90% 10%

Scott Ward, Ph.D. Lab Director

Juliann Johnson

Analyst

These results apply to the sample(s) as received. This report is for the exclusive use of the addressed client and shall not be reproduced except in full, without written approval by Eurofins J3 Resources, Inc. (EJ3). Samples are analyzed according to the methods listed above and are subject to the inherent limitations of PLM and interference of matrix components. Reporting limit for the above method is a function of the quantity of sample analyzed, matrix interference, sample preparation, fiber size, and distribution. Asbestos may be detected in concentrations of <1% by area if sufficient material is analyzed. EJ3 recommends TEM confirmation of soils, verniculite and non-friable organically bound materials (NOB) reported as None Detected or < 1% Asbestos by PLM. All samples received in good condition unless otherwise noted. This report shall not be used to claim product approval, certification, or endorsement by NVLAP, NIST, or any agency of the federal government.

Revision #v7/MF Revision Date: 3/09/2020

IH CHAIN OF CUSTODY

Open Lab Fee

J3 Resources

🛟 eurofins

Open La	b Fee			J3 C	Order #	RAS	ler B				J	3 Resource
Submitter Name:	Joseph Kulm					Bill to:	Sa	me				
Company:	Earth Servic	es & At	patement	, llc		Address	:					
Address:	6700 E 50th /	٩ve								-		
_						City/Stat	e. 			Zip:		
City/State: Com	merce City ,	00	Zini	80022	2	-	 15WY00	 1	i	, -	·	·
			<u> </u>			nformat						
Project Name: WY R	ollingstock In	spectio	ns			Proje	ct Manag	er: Ama	unda Woza	b		i
Project #: 215WY00						Telep	hone – C)ffice/Ce	II 402-578	-685	8	
Reports - Email Addr	ess: amanda	wozab	@esasite	e.com,	joseph	.kulm@es	asite.con	n, robert	.szynskie@	Desa	site.com	
Invoice - Email Addre	ss: same					Noti	- fication B	y: Em	ail: 🔳	Verk	pal: 🗖	
Special Instructions:	400 point-cou	unt sam	ples with	detect	tions u	o to 5% as	bestos w	ith GR, i	as needed			
		1	Furnaro	und T	limes	– Pleas	e Selec	t One				
Emergency* [] 1			'	2 Day		· · · · · · · ·	3 Day			5 Day	
						ESTOS						
PLM - Bulk	PCM -	Air	TEM -	Air	TEN	l - Bulk	TEM -	Water	TEM - D	ust		/PLM iculite/Ore
EPA 600/R-93/116	6 0 ISO 867. % 0 OSHA II	7201 2 D-160	○ AHERA ○ NIOSH ○ ASTM [○ ISO 103 ○ ISO 137	7402 06281 312	O Matrix Redu O Quali	ction (<1%) ction (+/-) tative (+/-) Mount	o >10 j	y Water um fibers µm fibers 0.2 1/ WW	 ASTM Di Microvac ASTM Di Wipe 600/J-93, Carpet - E Bulk Dus Qualitativ 	6 480 /167 EPA t	O ASTM 752	21-TEM (+/-) 21-TEM (<1%) 5-Modified 1 Only (+/-) 6 - TEM (+/-) 9-Cincinnati
			META	LS					SIL		PARTIC	ULATES
Flame A		Gra	phite Fur LEA		Α		ICP	<u> </u>	X-Ray	/ Difi	fraction / G	ravimetric
O Lead in Paint - SW846 O Lead in Air - NIOSH 703 O Lead in Wipes - SW846 O Lead in Soil - SW846 7 O TCLP - SW846-1311/60	32 7420/3050B 120/3050B	O Wast O Soil/S	ing Water - S lewater - S Sludge - S NIOSH 710	- EPA 20 W846-74 N846-74	421	 Celements in Air – NIOSH 7300 Wipe/Soil – SW846-6010B Ceffluent – SW846-6010B Welding Fume – NIOSH 7300M Welding Fume – NIOSH 7300M NIOSH 0500 – Total Particu NIOSH 0600 – Respirable F 			culates			
Total Number of	Samples S	Submi	itted: 1	5		Positive	e Stop:		YES		NO	
			<u></u>		Sign	atures						
Relinquished By:	$-\mathcal{O}_{m}$) J	K		\mathcal{M}			Date		11	Time:	10-20
Received By:	<u>·</u> V							Date		U	Time:	$\mu \cdot \alpha_{-}$
Relinquished By: Received By:						<u> </u>		Date Date			Time: Time:	
* Emergency TAT requires	orior lab notificati	on. All sam	nples analvze	d outside	e normal t	ousiness hour	s are charge				1 11116.	

**TAT's are in Business Days rather than Hours (i.e.1 Day TAT = End of Next Business Day)

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J3 Resources

Project Name WY Rollingstock Inspections Project Number 215WY001 - D&

SAMPLE IDENTIFICATION

Page ____ of ____

SAMPLE NUMBER	SAMPLE LOCATION / MATERIAL	VOLUME/CONDITION
CHE-DRGW01481-160721-001	Caulking	
CHE-DRGW01481-160721-002	Int. Window seams	
CHE-DRGW01481-160721-003		
CHE-DRGW01481-160721-004	Linoleum sheet flooring	
CHE-DRGW01481-160721-005	Int. floor throughout	
CHE-DRGW01481-160721-006		
CHE-DRGW01481-160721-007	Brown/white sealant	
CHE-DRGW01481-160721-008	Ext. roof penetrations	
CHE-DRGW01481-160721-009		
CHE-DRGW01481-160721-010	Black bakelite	
CHE-DRGW01481-160721-011	Int. electrical box	
CHE-DRGW01481-160721-012		
CHE-DRGW01481-160721-013	Black flooring	
CHE-DRGW01481-160721-014	Int. Pop-up flooring	
CHE-DRGW01481-160721-015		
		I

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3113 Red Bluff Road Pasadena, Texas 77503 Phone: (713) 290-0223 – Fax: (832) 831-5669 *j3resources.com*

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J3 Resources

<u>Lead in Paint Performed by</u> <u>Flame AA – USEPA SW846 7420/3050B (Mod.)</u>

Amanda Wozab Earth Services & Abatement, Inc. 6700 E. 50th Avenue Commerce City, CO 80022

Order #:	JP211028587
Project #:	215WY001
Receipt Date:	21-Jul-2021
Analysis Date:	22-Jul-2021
Report Date:	23-Jul-2021

WY Rollingstock Inspections-D&RGW 01481

SAMPLE ID	PAINT COLOR	LEAD CONCENTRATION (mg/kg)	LEAD CONCENTRATION (%)
CHE-DRGW01481-160721-001L	White	< 50	< 0.005%
CHE-DRGW01481-160721-002L	Yellow	79000	7.9%
CHE-DRGW01481-160721-003L	Black	670	0.067%
CHE-DRGW01481-160721-004L	Silver	39000	3.9%
CHE-DRGW01481-160721-005L	Gray	1900	0.19%

Reporting Limit = 50.0 mg/kg N/A = Not Applicable INS = Insufficient Sample Weight NS = Not Submitted

Analyst: Shervin Aghaabbasi

Scott Ward, Ph.D. Lab Director

This report relates only to the samples submitted. The analysis has been conducted according to the method(s) listed above. Blank corrections are not applied to data unless requested by the customer. This report is for the exclusive use of the addressed customer and shall not be reproduced except in full without written approval by Eurofins J3 Resources, Inc. (EJ3). EJ3 is an EPA NLLAP recognized lab by the AIHA-LAP, LLC ELLAP (Lab ID: 157714). Unless otherwise noted, all quality control samples performed within specifications established by the laboratory. The estimated accuracy is solely based on recovery data from internal laboratory control samples at the 95% confidence interval of the level of concern, derived from a 287 mg/kg lead in paint matrix reference material. The estimated accuracy does not account for uncertainty associated with the sampling process. Accuracy = +/-9%

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J3 Resources

Open Lab Fee

	lecoph Kulm					0		
Submitter Name:	Joseph Kulm				Bill to:	Same		
Company:	Earth Service	es & Abater	ment, Ilc		Address:			
Address:	6700 E 50th A	ve						
					City/State	a:		Zip:
Con	nmerce City, (20	Zip: 8002	2		15WY001		
City/State: Con			 A Constraint 		PO #: 2 nformati	a the second second		
Design t Norma	<u> </u>		FIU	Ject I				<u>n ay saalaan in saaraa saara</u> -
Project Name: WY F				<u>.</u>		ct Manager: Ama		
Project #: 215WY00	01 - D&RGW (1481			Telep	hone - Office/Ce	1 402-578-	6858
Reports - Email Add	ress: amanda	.wozab@e	sasite.com,	, josepł	n.kulm@es	asite.com, robert	.szynskie@	esasite.com
Invoice - Email Addr	ess: same				Notif	fication By: Em	iail: 🔳	Verbal: 🛛
Special Instructions:								
		Tur	naround	Times	s — Pleas	e Select One		
Emergency*		Day 🛛		2 Day		3 Day		5 Day 🛛
				ASB	ESTOS			
PLM - Bulk	PCM -	Air T	'EM - Air	TE	M - Bulk	TEM - Water	TEM - D	ust Soil/Vermiculite/Ore
EPA 600/R-93/116 Visual Estimation (< 400 Point Count 0.2 1,000 Point Count 0.2 Gravimetric Reduction Matrix Reduction (+/ NIOSH 9002 OSHA ID-191	5% O ISO 867 1% O OSHA II on	7201 ON 2 OA 0-160 OIS	HERA IOSH 7402 STM D6281 SO 10312 SO 13794	Redu O Matr Redu O Qua	uction (+/-) litative (+/-) op Mount	 ○ EPA 100.2 Drinking Water >10 µm fibers ≥0.5 µm fibers ○ EPA 100.2 Effluent / WVV Received on ice: ○ Yes ○ No Temp: 	 ASTM D5 Microvac ASTM D6 Wipe 600/J-93/ Carpet - E Bulk Dust Qualitative 	O ASTM 7521-TEM (<1%)
		M	ETALS				SILI	CA/PARTICULATES
Flame A	A		te Furnace / LEAD	AA -		ICP	X-Ray	/ Diffraction / Gravimetric
Q Lead in Paint – SW846 7420/3050B O Drinking Water – EPA 200.9 O Lead in Air – NIOSH 7082 O Wastewater – SW846-7421 O Lead in Wipes – SW846 7420/3050B O Soil/Sludge – SW846-7421 O Lead in Soil – SW846 7420/3050B O Air – NIOSH 7105 O TCLP – SW846-1311/6010B O Air – NIOSH 7105			C Elements in Air – NIOSH 7300 Wipe/Soil – SW846-6010B Effluent – SW846-6010B Welding Fume – NIOSH 7300M Welding Fume – NIOSH 7300M NIOSH 0500 – Total Particulates NIOSH 0600 – Respirable Particulates					
Total Number o	f Samples	Submitte	d: 5		Positive	e Stop: 🛛	YES	■ NO
		-1	1	Sigr	natures			
Relinquished By:	(may	Al				Date	e: <u>7/19</u>	Time:
					M	- Date	e: 7170	21 Time: 10:30
Received By:					<u>v</u>			
Received By: Relinquished By:						Date	e:	Time:

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Project Name WY Rollingstock Inspections

Project Number 215WY001 - D&

SAMPLE IDENTIFICATION

Page ____ of ____

J3 Resources

SAMPLE NUMBER	SAMPLE LOCATION / MATERIAL	VOLUME/CONDITION
CHE-DRGW01481-160721-001L	White	
	Int.	
CHE-DRGW01481-160721-002L	Yellow	
	Ext. upper half	
CHE-DRGW01481-160721-003L	Black	
	Undercarriage and lower half of exterior	
CHE-DRGW01481-160721-004L	Silver	
	Ext. handrails and knuckles	
CHE-DRGW01481-160721-005L	Gray	
	Int. pop-up stairs and trim	
<u> </u>		
······································		

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Monday, August 09, 2021

Amanda Wozab Earth Services & Abatement 6700 E. 50th Ave. Commerce City, CO 80022

Re: ALS Workorder: 2107413 Project Name: Cheyenne RS Project Number: 215WY001

Dear Ms. Wozab:

One solid sample was received from Earth Services & Abatement, on 7/21/2021. The sample was scheduled for the following analysis:

PCBs

The results for these analyses are contained in the enclosed reports.

The data contained in the following report have been reviewed and approved by the personnel listed below. In addition, ALS certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental.

Thank you for your confidence in ALS Environmental. Should you have any questions, please call.

Sincerely,

Kath M. or

ALS Environmental Katie M. OBrien Project Manager





2107413

PCB:

The sample was analyzed using GC/ECD (electron capture detectors) according to the current revision of SOP 409 based on SW-846 Method 8082.

All acceptance criteria were met.

ALS -- Fort Collins

Sample Number(s) Cross-Reference Table

OrderNum: 2107413 Client Name: Earth Services & Abatement Client Project Name: Cheyenne RS Client Project Number: 215WY001 Client PO Number:

	Client Sample Number	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
-	CHE-DRGW01481-160721-001P	2107413-1		SOLID	17-Jul-21	

Laboratory Gro	225 Commerce Drive. Fort Collins. Colorad
ALS	225 Com

Chain-of-Custody

Γ

ALS Laboratory Group 225 commerce Drive, Fort Collins, Colorado 80524 TE: (800) 43-1511 PH: (970) 480-1511 FX: (870) 440-152

	TF: (800) 443-1511 PH: (970) 490-1511 FX: (970) 490-1522	490-1522								Form 202r8		4	ບ , ຕ
		SAMPL	ER	Joseph Kulm				DATE			PAGE	-	of 1
PROJECT NAME	PROJECT NAME Cheyenne RS	S	SITE ID D	D&RGW 01481			1	TURNAROUND	LC)	5 Day	DISPOSAL	By Labor	Return to Client
PROJECT No.	215WY001	EDD FORMAT	RMAT										
		PURCHASE ORDER	RDER										
COMPANY NAME	Earth Services & Abatement	BILL TO COMPANY		Earth Services & Abatement	atement								
SEND REPORT TO		INVOICE ATTN	DT NTO										
ADDRESS	6700 E. 50th Ave.	ADD	ADDRESS 6	6700 E. 50th Ave.									
CITY / STATE / ZIP	Commerce City, CO 80022	CITY / STATE / ZIP	-	Commerce City, CO 80022	80022		1					-	
PHONE	303-991-1280	á	PHONE	303-991-1280			1						
FAX	303-991-1282		FAX	303-991-1282			82		•				
E-MAIL	<u>Amanda. Wozab@esasile.com</u> Joseph.Kulm@esasile.com	U	E-MAIL				PCB by 80						
Lab ID	Field ID	Matrix	Sample Date	ile Sample Time	# Bottles	Pres. QC	U						
	CHE-DRGW01481-160721-001P	SN	07.17.21	21 04/14/1903			×						
						-							
*Time Zone (Circle): For metals or aniv	•Time Zone (Circle): EST CST MST PST Matrix: O = oil S = s For metals or anions, please detail analytes below.	Matrix: O = oil S = soil NS = non-soil solid ilvtes below.		W = water L = liquid E = extract F = filter	ract F = filter			SIGNATURE	2	PRINTED NAME	NAME	DATE	TIME
Comments:		QC PACK	QC PACKAGE (check below)	below)	RELING	RELINQUISHED BY	BY ()			Joseph Kulm		7/19/21	
			LEVEL II (Standard QC)	andard QC)	C.	RECEIVED BY	BY	R		Josh Echin	1641	121121	1 0945
			revel III (SI	LEVEL III (Std QC + forms)	RELIN	RELINQUISHED BY	ВҮ				-		

Preservative Key: 1-HCI 2-HNO3 3-H2SO4 4-NaOH 5-NaHSO4 7-Other 8-4 degrees C 9-5035	7-Other	5-NaHSO4	4-NaOH	3-H2SO4	2-HNO3	1-HCI	e Key:
+ raw data)							
LEVEL IV (Std QC + forms							
LEVEL III (Std QC + forms)							
LEVEL II (Standard QC)							
AC LACKAGE (CLECK DEIOM)	5						COMMENTS.

102	SIGNATURE	PRINTED NAME	DATE	TIME
	Im/ Je	Joseph Kulm	7/19/21	
RECENED BY	U th	Josh Echen	12/12/2	721/21 6945
RELINQUISHED BY				
RECEIVED BY				
RELINQUISHED BY				
RECEIVED BY				

in.



ALS Environmental - Fort Collins CONDITION OF SAMPLE UPON RECEIPT FORM

(ALS)									
	Client:	EARTH SERVICES & ABATI	EMENT	Work	order No	: 2	107413		
Project Ma	anager:	КМО		Initials	: JPI	Date:	07/2	21/2021	
							N/A	YES	NO
Are airbills /	shipping	documents present and/or	removable	?				v	
Tracking n	umber: 2	815 9831 3879						Х	
2. Are custody	seals on	shipping containers intact?					Х		
Are custody	seals on	sample containers intact?					Х		
Is there a CO	C (chain	of-custody) present?						Х	
5.	-	ent with samples received? quested analyses, etc.)	(IDs, dates,	times, #	[#] of samp	oles, # of		х	
6. Are short-ho	Id sampl	es present?							Х
^{7.} Are all samp	les withir	n holding times for the requ	ested analy	yses?				Х	
^{8.} Were all sam	ple cont	ainers received intact? (not	t broken or	leaking	g)			Х	
9. Is there suffic	cient san	nple for the requested analy	/ses?					Х	
10. Are samples Guidelines)	in prope	r containers for requested a	inalyses? (f	orm 250,	Sample H	andling		х	
^{11.} Are all aquec	ous samp	les preserved correctly, if re	equired? (e	xcludin	g volatil	es)	Х		
		ring no headspace (VOC, GR meter? (i.e. size of green pe		E, rado	n) free c	of bubbles	Х		
^{13.} Were the sar	mples sh	pped on ice?							Х
^{14.} Were cooler to	emperatu	res measured at 0.1-6.0°C?	IR gun used*:	#5			RAD ONLY		Х
C(ooler #:	1							
Temperatu	-	AMB							
# of custody seals o	· · · -	0							
External µR/hr	-	11							
Background µR/hr		11							
		\leq two times background and within D	OT acceptance	criteria?	YES / NO	/NA (If no, s	ee Form 008	3.)	
		e for NO responses to boxes ab	-						
		·				2		Ū	
•		oH checked? YES / NA		nt bottl	e ID's vs A	ALS lab ID's o			
•		DH checked? YES / NA ontacted? YES / ND/ NA Contact		nt bottl	e ID's vs A	ALS lab ID's o		ecked by ime: 7/22/2	

ALS -- Fort Collins

Collection Date: 7/17/2021

Client:

Project:

Sample ID:

Legal Location:

Earth Services & Abatement

CHE-DRGW01481-160721-001P

215WY001 Cheyenne RS

SAMPLE SUMMARY REPORT

Date: 09-Aug-21

Work Order: 2107413

Lab ID: 2107413-1

Matrix: SOLID

Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBs		SW8	082	Prep	Date: 7/30/2021	PrepBy: CPC
AROCLOR-1016	ND		2.5	MG/KG	6	8/6/2021 17:58
AROCLOR-1221	ND		5.1	MG/KG	6	8/6/2021 17:58
AROCLOR-1232	ND		2.5	MG/KG	6	8/6/2021 17:58
AROCLOR-1242	ND		2.5	MG/KG	6	8/6/2021 17:58
AROCLOR-1248	ND		2.5	MG/KG	6	8/6/2021 17:58
AROCLOR-1254	ND		2.5	MG/KG	6	8/6/2021 17:58
AROCLOR-1260	ND		2.5	MG/KG	6	8/6/2021 17:58
Surr: TETRACHLORO-M-XYLENE	84		69-129	%REC	6	8/6/2021 17:58
Surr: DECACHLOROBIPHENYL	115		55-135	%REC	6	8/6/2021 17:58

Analyses		Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed	
Collection Date	7/17/2021			Percent Moisture:				
Legal Location:						Matrix: SOL	ID	
Sample ID:	CHE-DRGW0148	l-160721-001P				Lab ID: 2107	7413-1	
Project:	215WY001 Cheyer	nne RS				Work Order: 2107	7413	
Client:	Earth Services & A	abtement				Date: 09-A	ug-21	

MDC.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

P - LCS, Matrix Spike Recovery within control limits.

NC - Not Calculated for duplicate results less than 5 times MDC

B3 - Analyte concentration greater than MDC but less than Requested

N - Matrix Spike Recovery outside control limits

B - Analyte concentration greater than MDC.

L - LCS Recovery below lower control limit.

H - LCS Recovery above upper control limit.

Explanation of Qualifiers

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Radiochemistry:

U or ND - Result is less than the sample specific MDC.

Y1 - Chemical Yield is in control at 100-110%. Quantitative yield is assumed.

- Y2 Chemical Yield outside default limits.
- W DER is greater than Warning Limit of 1.42
- * Aliquot Basis is 'As Received' while the Report Basis is 'Dry Weight'.
- # Aliquot Basis is 'Dry Weight' while the Report Basis is 'As Received'.
- G Sample density differs by more than 15% of LCS density.
- D DER is greater than Control Limit
- M Requested MDC not met.

Inorganics:

B - Result is less than the requested reporting limit but greater than the instrument method detection limit (MDL).

U or ND - Indicates that the compound was analyzed for but not detected.

E - The reported value is estimated because of the presence of interference. An explanatory note may be included in the narrative.

- M Duplicate injection precision was not met.
- N Spiked sample recovery not within control limits. A post spike is analyzed for all ICP analyses when the matrix spike and or spike duplicate fail and the native sample concentration is less than four times the spike added concentration.
- Z Spiked recovery not within control limits. An explanatory note may be included in the narrative.
- * Duplicate analysis (relative percent difference) not within control limits.
- S SAR value is estimated as one or more analytes used in the calculation were not detected above the detection limit.

Organics:

U or ND - Indicates that the compound was analyzed for but not detected.

- B Analyte is detected in the associated method blank as well as in the sample. It indicates probable blank contamination and warns the data user.
- E Analyte concentration exceeds the upper level of the calibration range.
- J Estimated value. The result is less than the reporting limit but greater than the instrument method detection limit (MDL).
- A A tentatively identified compound is a suspected aldol-condensation product.
- X The analyte was diluted below an accurate quantitation level.
- * The spike recovery is equal to or outside the control criteria used.
- + The relative percent difference (RPD) equals or exceeds the control criteria.
- G A pattern resembling gasoline was detected in this sample.
- D A pattern resembling diesel was detected in this sample
- M A pattern resembling motor oil was detected in this sample.
- C A pattern resembling crude oil was detected in this sample.
- 4 A pattern resembling JP-4 was detected in this sample.
- 5 A pattern resembling JP-5 was detected in this sample.
- H Indicates that the fuel pattern was in the heavier end of the retention time window for the analyte of interest.
- L Indicates that the fuel pattern was in the lighter end of the retention time window for the analyte of interest.
- Z This flag indicates that a significant fraction of the reported result did not resemble the patterns of any of the following petroleum hydrocarbon products: - gasoline
- JP-8
- diesel
- mineral spirits
- motor oil
- Stoddard solvent bunker C

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SAMPLE SUMMARY REPORT

ALS -- Fort Collins

Client:	Earth Services & Abatement
Work Order:	2107413
Project:	215WY001 Cheyenne RS

QC BATCH REPORT

Batch ID: EX210730-3-1	Instrument ID: Pes	it-1		Method: SI	N8082						
LCS Sample ID: EX210730	0-3			Ui	nits: MG/K	G	Analy	sis Date: 8	/6/2021	14:13	
Client ID:	Run II): PT210806-1	1				Prep Date: 7/3	0/2021	DF:	1	
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qua
AROCLOR-1016	0.133	0.0333	0.133		99	80-120				50	
AROCLOR-1260	0.137	0.0333	0.133		103	80-125				50	
Surr: TETRACHLORO-M-XYLENE	0.0152	0.0000	0.0167		91	69-129				00	
Surr: DECACHLOROBIPHENYL	0.0187		0.0167		112	55-135					
LCSD Sample ID: EX210730	0-3			Ui	nits: MG/K	G	Analy	sis Date: 8	/6/2021	14:32	
Client ID:	Run II): PT210806-1	1				Prep Date: 7/3	0/2021	DF:	1	
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qua
AROCLOR-1016	0.125	0.0333	0.133		94	80-120		0.133	6	50	
AROCLOR-1260	0.131	0.0333	0.133		99	80-125		0.137	4	50	
Surr: TETRACHLORO-M-XYLENE	0.015		0.0167		90	69-129			1		
Surr: DECACHLOROBIPHENYL	0.0178		0.0167		107	55-135			5		
MB Sample ID: EX210730	0-3			U	nits: MG/K	G	Analy	sis Date: 8	/6/2021	11:25	
Client ID:	Run II): PT210806-1	1				Prep Date: 7/3	0/2021	DF:	1	
Analyte	Result	ReportLimit									Qua
AROCLOR-1016	ND	0.033									
AROCLOR-1221	ND	0.067									
AROCLOR-1232	ND	0.033									
AROCLOR-1242	ND	0.033									
AROCLOR-1248	ND	0.033									
AROCLOR-1254	ND	0.033									
	ND	0.033									
AROCLOR-1260	ND	0.000									
AROCLOR-1260 Surr: TETRACHLORO-M-XYLENE	0.0158	0.000			95	69-129					

The following samples were analyzed in this batch:

2107413-1

Appendix 3 - Modified Sawyer Algorithm

Report Date	08/10/2021
Rolling Stock Type	Caboose
Rolling Stock No	D&RGW 01481

SAWYER ALGORITHM PRIORITY

Asbestos Potential Exposure and Priority Level Algorithm

Aspestos Potential Exposure and Prior Asset Number	D&RGW 01481	D&RGW 01481
Exposure Area	Roof penetrations□	Breakers
Asbestos Containing Material	White/brown sealant□	Black Bakelite
Sample Number	CHE-DRGW01481-160721-007 thru 009□	CHE-DRGW01481-160721-010 thru 012 □
Size	NA	NA
Quantity	8 LF	0.5 SF
MATERIAL CONDITION (MC)	2	2
 0 =No damage, excellent condition 1 =Very minor damage, no visible debris 2 =Damage is evident, small area 3 =Damage is easily seen, some debris 4 =Damage is widespread, debris is common 5 =Most or all material is damaged, hanging, and / or found as debris throughout the area 		
BUILDING AGE (BA)	1	1
1 =>30 years old 0 =15 - 30 years old -1 =<15 years old		
MATERIAL TYPE		
Pipe Covering (PC) 1 =MAG/CAL Silicate	NA	NA
-1 =Air Cell / paper Ceiling Plasters or Fireproofing (CP)	NA	NA
-1 =Cementitious (Monocoat) 0 =Standard	114	IA
1 ="Cotton Candy" texture WATER DAMAGE (WD)	0	0
0 =No water damage 1 =Small amount of damage can be seen; damage is localized rather than widespread	0	U
2 =Good deal of water damage; widespread ROOF CHARACTERISTICS (RC)	-0.5	-0.5
-0.5 =Sloped or Hipped -0.5 =Metal or Concrete 0.5 =Flat or Built-up		
EXPOSED SURFACE AREA (ESA)	4	4
0 =Material behind a permanent enclosure 2 =Material behind a lay-in ceiling or in open tunnel 4 =Material is exposed		
ACCESSIBILITY (AC)	4	4
0 =Totally inaccessible 1 =Can only reach with hands, ie. pipe chase 2 =An open tunnel or above a drop ceiling 3 =Exposed overall, but can't reach, ie. >10' high 4 =Material is out in the open and <10' high		
ACTIVITY AND MOVEMENT (A/M)	2	2
0 =No occupants enter the area 1 =Area is accessed infrequently 2 =Area is accessed frequently		
WORK ENVIRONMENT (WE)	0.5	0.5
-0.5 =Sedentary 0.5 =Non-sedentary		i
SOUND AND MECHANICAL VIBRATIONS (SMV) 0.5 =Frequent or Constant -0.5 =No recognizable vibration	0.5	0.5
AIR - PLENUM / AIR STREAM (AP) 0 =No air plenum or air flow	1	1
1 =Air plenum or air flow exists		0.05
VELOCITY (if Air Plenum = 1) (VEL) 0.25 =Recognizable by human feeling -0.25 =Non-recognizable by human feeling	-0.25	-0.25
FLOW (if Air Plenum = 1) (FL) -0.25 =Constant, steady stream	NA	NA
0.25 =Impact, gusty flow FRIABILITY (F)	4	4
1 =Very hard to crumble under hand pressure 2 = Will crumble under a little hand pressure 3 =Extremely easy to crumble under light pressure	11	1
ASBESTOS CONTENT (ASB)	1	1
0 =None <1% 1 =1% to 10% Asbestos 2 =11% to 50% Asbestos 3 =51% to 100% Asbestos		· ·
Exposure Value	14.25	14.25
•		
Rating	4	4



www.esasite.com

Specializing in environmental services and demolition

August 17th, 2021

Union Pacific Railroad Asbestos Program c/o GHD 3807 South 148th Street Omaha, NE 68144

RE: WY, Cheyenne, Rollingstock D&RGW 01486, Requested NESHAP Inspection Earth Services & Abatement Project Number: 215WY001

To Whom It May Concern,

Please find our NESHAP report for the above-mentioned requested inspection. Earth Services & Abatement's Joseph Kulm inspected UPRR railcar D&RGW 01486 for suspect asbestos-, lead-, and PCB-containing materials. The inspection work took place on July 16th, 2021.

No previous reports were provided for review prior to inspection.

Refer to the report for a summary of this inspection, including inspection/lab results, inspection photographs, and schematics.

If you have any questions or need anything else for this project, please do not hesitate to contact us.

Conducted by,

Jospeh Kulm Inspector Earth Services & Abatement

Reviewed by,

Best Syphie

Robert Szynskie Program Director Earth Services & Abatement Robert.szynskie@esasite.com Cell – 720-206-9238

Rolling Stock Asbestos Inspection Report								
					Inspect	ion Start Date	07/16/202	21
BUILDING AMERICA ^{**} Inspection Type					Inspect	ion End Date	07/16/202	21
X Initial Inspection	Reinspection	X NES	SHAP Inspe	ection	Report	Date	08/10/202	21
Inspection Compa	•							
Company Earth S	ervices & Abatement		License N	lo1	6608			
Address 6700 E 50)th Ave		City (Comme	erce City			
			State (00	Zi	p <u>80022</u>		
Inspector Informa	ation							
First Name Joseph		Las	t Name	Kulm				
License Type AHE	ERA License No.	C6LEMQ	A0R3U		Licen	se State	_	
Asset Information	n							
Rolling Stock Type	Caboose							
Rolling Stock No	D&RGW 01486		Car Name	_	D&RGW	; 01486		
Yard Name	Cheyenne		Subdivision	n _	Unknowr	ı		
Address	East Union Pacific Ave.		Mile Post	_	Unknowr	ı		
City	Cheyenne		Latitude	_	41.12926	67°		
State	WY		Longitude	_	-104.817	399°		
Zip Code	82001							
Key Contacts								
Name	Phone Number	Comp	any			Role/Responsibilit	у	
Kulm,Joseph	303-991-1280	Earth	Services &	Abatem	nent	Inspector		
Szynskie,Robert	303-991-1280	Earth	Services &	Abatem	nent	Program Director		
Dickens,Edgar	307-214-3545	UPRR	ł			Local Contact		
Inspection Limita	tions							
was limited by the u	ere made to conduct a com se of hand-tools and some ole. If additional suspect ma may be required.	additiona	al suspect m	aterials	s may be	present in areas n	ot	

		Rolling Sto	ck Asbestos Inspec	ction Rep		Report Date Stock Type	08/10/2021 Caboose	
BUILDING AMERICA" Rolling Stock No D&RGW 01486								
Asbe	estos Results							
ACM Pro	esent ¹ Yes	Total Number o	f ACM Components. ¹ 1					
Total Nu	mber of Materials Containin	g <= 1% Asbestos.	0		_			
Notes								
	Asbestos Sam	ples						
Sample Date	Sample ID	Description	Location	Asbestos Result ²	ACM Category	Friable	Quantity	Modified Algorithm Number
07/16/2021	CHE-DRGW01486-1607 21-001 thru 003	Black window caulk	Interior & exterior window seams	Not Detected	N/A	N/A	48 LF	N/A
07/16/2021	CHE-DRGW01486-1607 21-004 thru 006	White sheet flooring and yellow mastic	Floor throughout	Not Detected	N/A	N/A	200 sq. ft.	N/A
07/16/2021	CHE-DRGW01486-1607 21-007 thru 009	Brown/white sealant	Roof penetration	8%, Chrysotile	Category II	No	8 LF	4
			where Asbestos-Containing Construction ollected samples may not have been ar				tional details.	

3 "Lead Present" and "Positive" is defined as paint with $\geq 0.5\%$ lead.

4 "PCBs Present" and "Positive" is defined as caulk with ≥50 ppm PCBs.

BUILDING AMERICA	۵ ۳	Rolling St	tock Asbestos Inspectior	n Report Repo Rolling Stor Rolling S	ock Type C	08/10/2021 Caboose D&RGW 014	486
	d Paint Results						
Lead Present ³	Yes	Total Numbe	er of Positive Components. ³ 2				
Paint Samples							
Sample Date	Sam	ple ID	Description	Location	Lead Resu		ndition
07/16/2021	CHE-DRGW01486	-160721-001L	White	Interior	< 0.0050	00 % Poor	r
07/16/2021	CHE-DRGW01486	-160721-002L	Yellow	Exterior car, upper half	5.7 %	Fair	
07/16/2021	CHE-DRGW01486	3-160721-003L	Black	Exterior lower half of cal and undercarriage	ar 1.9 %	Poor	ŗ
07/16/2021	CHE-DRGW01486	5-160721-004L	Silver	Exterior handrails and knuckles	0.17 %	Poor	r

Interior popup stairs and

trim

0.0086 %

Poor

Po	lychlo	orinated	Biphenyls	Results

PCBs Present ⁴	No	Total Number of Positive Components. ⁴
---------------------------	----	---

CHE-DRGW01486-160721-005L

Notes

07/16/2021

PCBs Samples

Sample Date	Sample ID	Description	Location	PCBs Result	Quantity
07/16/2021	CHE-DRGW01486-160721-00 1P	Black window caulk	Interior & exterior window seams	Not Detected	48 LF

0

1 "ACM Present" is defined as material with >1% asbestos, except in California, where Asbestos-Containing Construction Material (ACCM) is defined as >0.1% asbestos.

Gray

2 For samples collected in sets, only the highest result is reported. Some of the collected samples may not have been analyzed. See the attached laboratory report for additional details.

3 "Lead Present" and "Positive" is defined as paint with $\geq 0.5\%$ lead.

4 "PCBs Present" and "Positive" is defined as caulk with ≥50 ppm PCBs.

	Rolling Stock Asbestos Inspection Report Re	port Date	08/10/2021
	Rolling St	tock Type	Caboose
	Rolling	Stock No	D&RGW 01486
Mold Results			
Suspect Mold Present	No		
Notes			

1 "ACM Present" is defined as material with >1% asbestos, except in California, where Asbestos-Containing Construction Material (ACCM) is defined as >0.1% asbestos.

2 For samples collected in sets, only the highest result is reported. Some of the collected samples may not have been analyzed. See the attached laboratory report for additional details.

3 "Lead Present" and "Positive" is defined as paint with $\geq 0.5\%$ lead.

4 "PCBs Present" and "Positive" is defined as caulk with \geq 50 ppm PCBs.



Rolling Stock Asbestos Inspection Report Asset Photos Report Date 08/10/2021

BUILDING AMERICA



Railcar ID Marking



View of railcar, looking north-northwest

Rolling Stock Type Caboose

Rolling Stock No D&RGW; 01486



View of railcar, looking north-northeast



View of interior



Rolling Stock Asbestos Inspection Report Sample Photos Report Date 08/10/2021

BUILDING AMERICA**



CHE-DRGW01486-160721-001 thru 003, Asbestos Not Detected, Black window caulk



CHE-DRGW01486-160721-004 thru 006, Asbestos Not Detected, White sheet flooring and yellow mastic



CHE-DRGW01486-160721-007 thru 009, 8% Asbestos, Brown/white sealant

Rolling Stock Type

Caboose

Rolling Stock No

D&RGW; 01486



CHE-DRGW01486-160721-001 thru 003, Asbestos Not Detected, Black window caulk



CHE-DRGW01486-160721-004 thru 006, Asbestos Not Detected, White sheet flooring and yellow mastic



CHE-DRGW01486-160721-007 thru 009, 8% Asbestos, Brown/white sealant



Rolling Stock Asbestos Inspection Report Sample Photos Report Date 08/10/2021

BUILDING AMERICA"



CHE-DRGW01486-160721-001L, <0.005% Lead, White



CHE-DRGW01486-160721-002L, 5.7% Lead, Yellow



CHE-DRGW01486-160721-003L, 1.9% Lead, Black

Rolling Stock Type

Caboose

Rolling Stock No D&RGW; 01486



CHE-DRGW01486-160721-001L, <0.005% Lead, White



CHE-DRGW01486-160721-002L, 5.7% Lead, Yellow



CHE-DRGW01486-160721-003L, 1.9% Lead, Black



Rolling Stock Asbestos Inspection Report Sample Photos Report Date 08/10/2021

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CHE-DRGW01486-160721-004L, 0.17% Lead, Silver



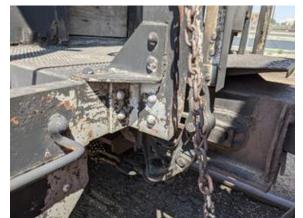
CHE-DRGW01486-160721-005L, 0.0086% Lead, Gray



CHE-DRGW01486-160721-001P, PCB Not Detected, Black window caulk

Rolling Stock Type

Caboose Rolling Stock No D&RGW; 01486



CHE-DRGW01486-160721-004L, 0.17% Lead, Silver



CHE-DRGW01486-160721-005L, 0.0086% Lead, Gray



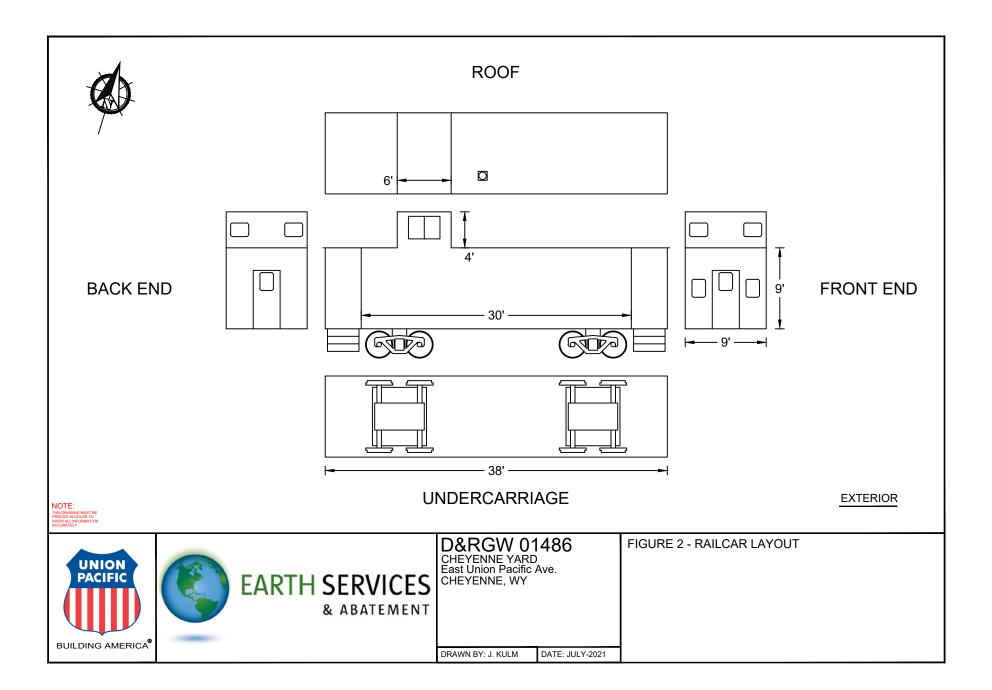
CHE-DRGW01486-160721-001P, PCB Not Detected, Black window caulk

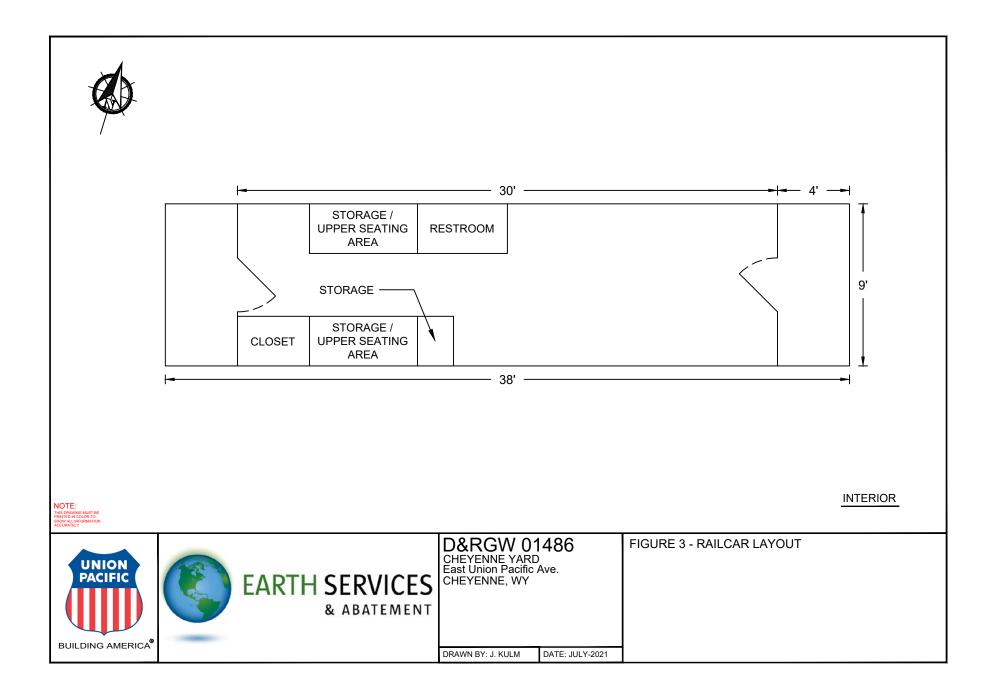


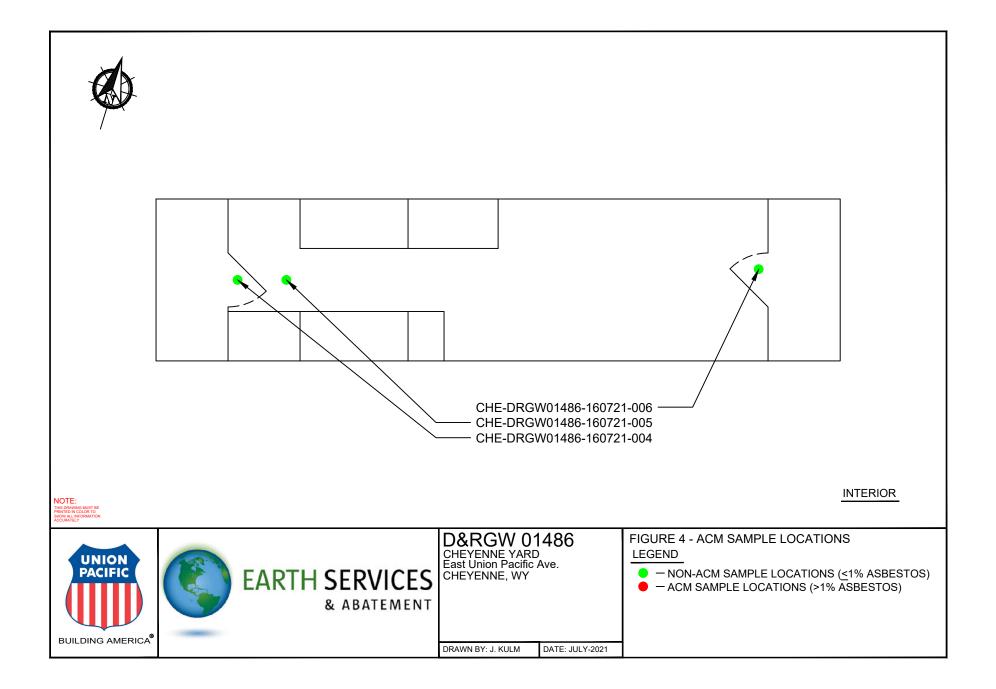
Appendix 1 - Figures

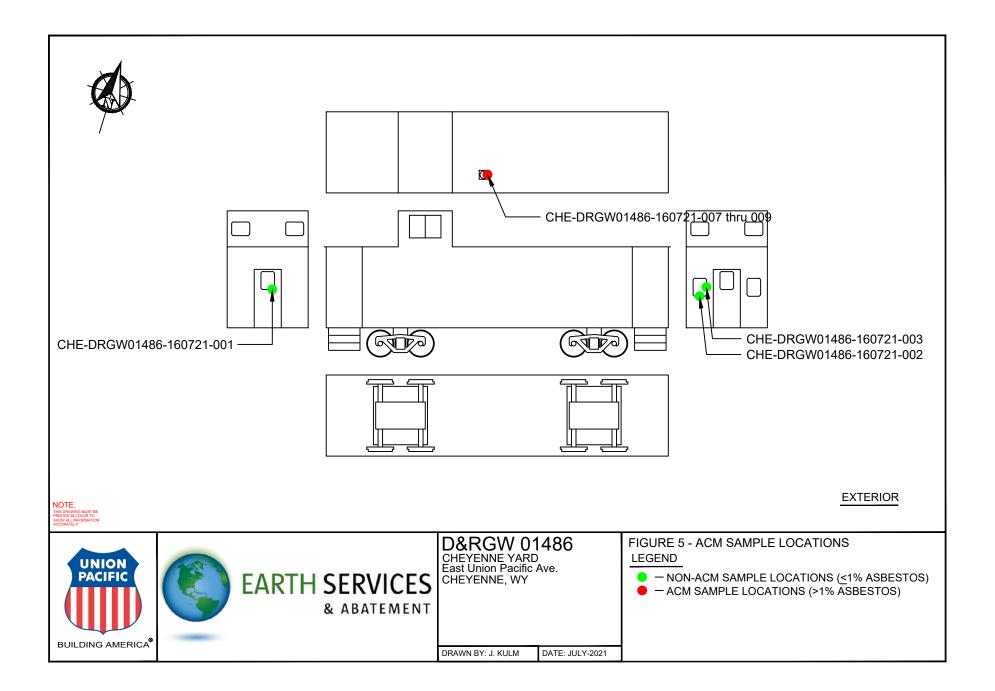
Report Date08/10/2021Rolling Stock TypeCabooseRolling Stock NoD&RGW; 01486

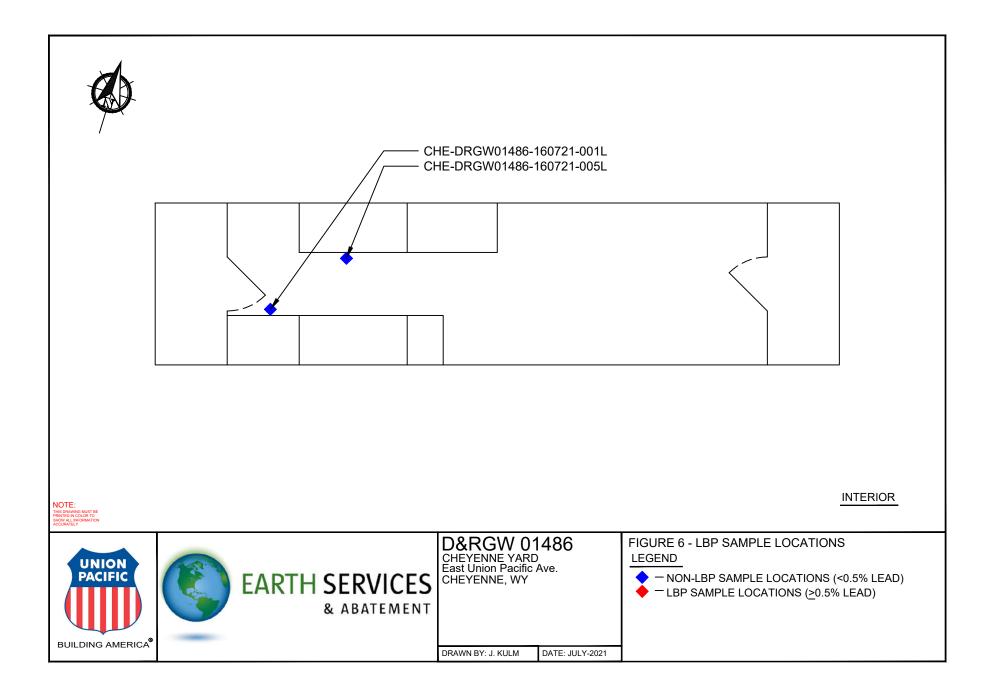


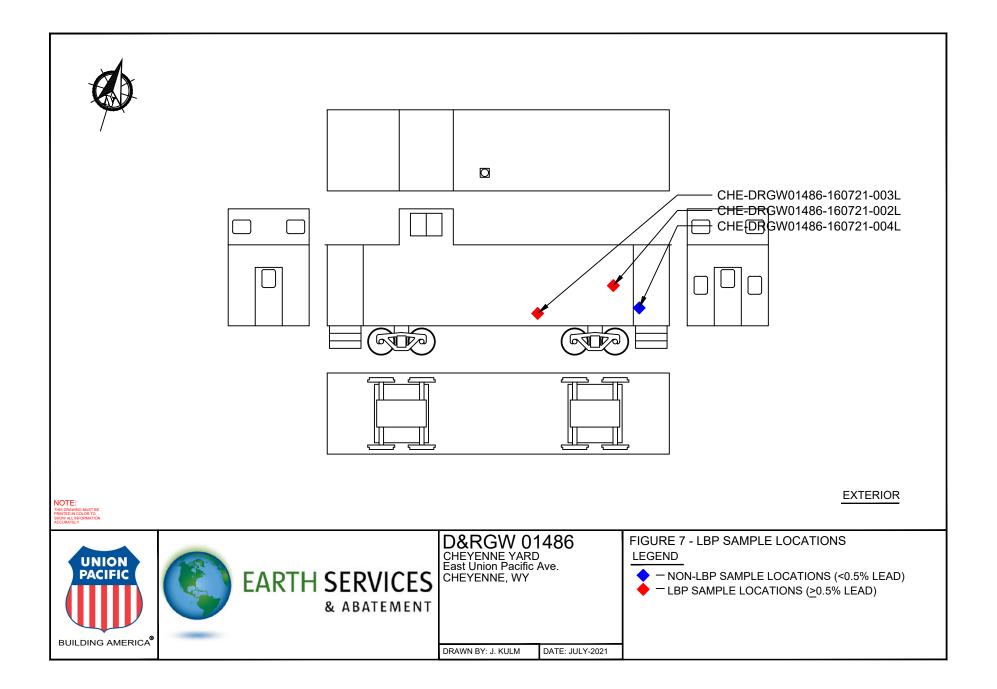


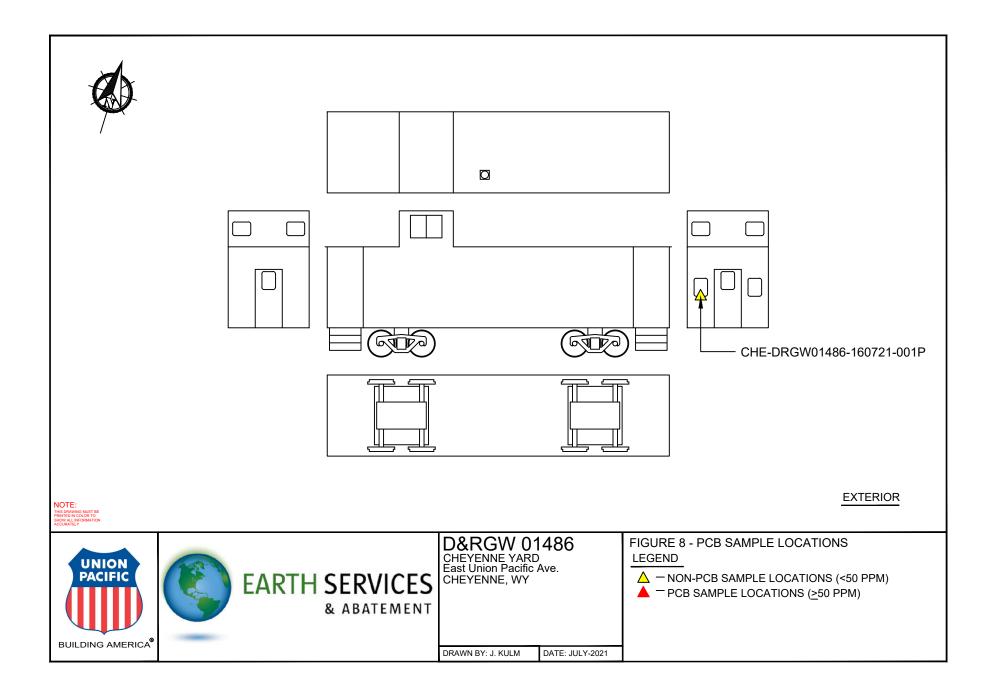


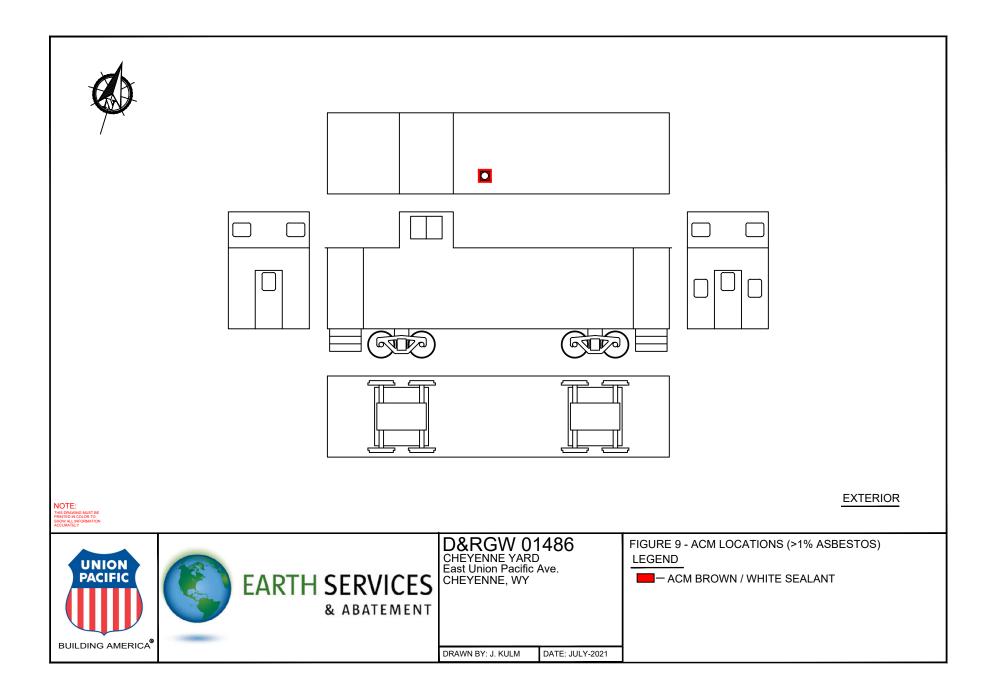












Appendix 2 - Lab Reports and Chain of Custody Receipts

Report Date	08/10/2021
Rolling Stock Type	Caboose
Rolling Stock No	D&RGW 01486

Eurofins J3 Resources, Inc.

3113 Red Bluff Road, Pasadena, TX 77503 Phone: (713) 290-0223 - Fax: (713) 290-0248 *J3Resources.com*





Bulk Asbestos Fiber Analysis by Polarized Light Microscopy (PLM) Appx E Sub E 40 CFR 763 / EPA 600/R-93/116

Joseph Kulm Earth Services & Abatement, Inc. 6700 E. 50th Avenue Commerce City CO 80022
 Order #:
 JH21129253

 Project #:
 215WY001

 Date Received:
 20-Jul-2021

 Date Analyzed:
 22-Jul-2021

 Date Reported:
 22-Jul-2021

D&RGW 01486 WY Rollingstock Inspections

Sample ID #	Sample Description	Asbestos Constituents	6	Non-Asbestos Constituents	
CHE- DRGW01486- 160721-001	Caulk, Black, Homogeneous	None Detected		Non-Fibrous Material	100%
CHE- DRGW01486- 160721-002	Caulk, Black, Homogeneous	None Detected		Non-Fibrous Material	100%
CHE- DRGW01486- 160721-003	Caulk, Black, Homogeneous	None Detected		Non-Fibrous Material	100%
CHE- DRGW01486- 160721-004	LAYER 1 Sheet Flooring, Brown, Homogeneous	None Detected		Cellulose Fiber Fibrous Glass Non-Fibrous Material	30% 2% 68%
	LAYER 2 Mastic, Yellow, Homogeneous	None Detected		Non-Fibrous Material	100%
CHE- DRGW01486- 160721-005	LAYER 1 Sheet Flooring, Brown, Homogeneous	None Detected		Cellulose Fiber Fibrous Glass Non-Fibrous Material	30% 2% 68%
	LAYER 2 Mastic, Yellow, Homogeneous	None Detected		Non-Fibrous Material	100%
CHE- DRGW01486- 160721-006	LAYER 1 Sheet Flooring, Brown, Homogeneous	None Detected		Cellulose Fiber Fibrous Glass Non-Fibrous Material	30% 2% 68%
	LAYER 2 Mastic, Yellow, Homogeneous	None Detected		Non-Fibrous Material	100%
CHE- DRGW01486- 160721-007	Sealant, Brown/ White, Homogeneous	Chrysotile	8%	Non-Fibrous Material	92%

Scott Ward, Ph.D. Lab Director

Arnold FloresAnalystScott Ward, Ph.D.Lab DirectorThese results apply to the sample(s) as received. This report is for the exclusive use of the addressed client and shall not be reproduced except in full, without written approval
by Eurofins J3 Resources, Inc. (EJ3). Samples are analyzed according to the methods listed above and are subject to the inherent limitations of PLM and interference of
matrix components. Reporting limit for the above method is a function of the quantity of sample analyzed, matrix interference, sample preparation, fiber size, and distribution.
Asbestos may be detected in concentrations of <1% by area if sufficient material is analyzed. EJ3 recommends TEM confirmation of soils, vermiculite and non-friable
organically bound materials (NOB) reported as None Detected or < 1% Asbestos by PLM. All samples received in good condition unless otherwise noted. This report shall
not be used to claim product approval, certification, or endorsement by NVLAP, NIST, or any agency of the federal government.

Eurofins J3 Resources, Inc.

3113 Red Bluff Road, Pasadena, TX 77503 Phone: (713) 290-0223 - Fax: (713) 290-0248 *J3Resources.com*





Bulk Asbestos Fiber Analysis by Polarized Light Microscopy (PLM) Appx E Sub E 40 CFR 763 / EPA 600/R-93/116

Joseph Kulm Earth Services & Abatement, Inc. 6700 E. 50th Avenue Commerce City CO 80022
 Order #:
 JH21129253

 Project #:
 215WY001

 Date Received:
 20-Jul-2021

 Date Analyzed:
 22-Jul-2021

 Date Reported:
 22-Jul-2021

D&RGW 01486 WY Rollingstock Inspections

Sample ID #	Sample Description	Asbestos Constituents	Non-Asbestos Constituents	
CHE- DRGW01486- 160721-008	Sealant, *Not analyzed per client req	uest		
CHE- DRGW01486- 160721-009	Sealant, *Not analyzed per client req	uest		

Scott Ward, Ph.D. Lab Director

Arnold Flores

Analyst

These results apply to the sample(s) as received. This report is for the exclusive use of the addressed client and shall not be reproduced except in full, without written approval by Eurofins J3 Resources, Inc. (EJ3). Samples are analyzed according to the methods listed above and are subject to the inherent limitations of PLM and interference of matrix components. Reporting limit for the above method is a function of the quantity of sample analyzed, matrix interference, sample preparation, fiber size, and distribution. Asbestos may be detected in concentrations of <1% by area if sufficient material is analyzed. EJ3 recommends TEM confirmation of soils, verniculite and non-friable organically bound materials (NOB) reported as None Detected or < 1% Asbestos by PLM. All samples received in god condition unless otherwise noted. This report shall not be used to claim product approval, certification, or endorsement by NVLAP, NIST, or any agency of the federal government.

Revision #v7/MF Revision Date: 3/09/2020

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							·······
Submitter Name:	Joseph Kulm			Bill to:	Same		
Company:	Earth Servic	es & Abatement, II	c	Address:			
Address:	6700 E 50th /	٩ve					
				City/State	ə. 		Zip:
Cor	nmerce City , (CO Zip: ⁸	0022				
City/State: Cor			Project I	ΓΟ π.			
Project Name: WY	Pollingstock In		i i oject i		ct Manager: Ama	anda Wozab	
Project #: 215WY0					hone – Office/Ce		
Reports - Email Add			om, josepn				
Invoice - Email Add	ress: same			Notif	fication By: En	nail: 🗖 🛝	Verbal: 🛛
Special Instructions	: 400 point-co	unt samples with d	etections u	p to 5% as	bestos with GR,	as needed	
		Turnarou	nd Times	; — Please	e Select One		
Emergency*	D 1	Day 🗆	2 Day		3 Day		5 Day 🛛
			ASB	ESTOS			and an
PLM - Bulk	PCM -	Air TEM - A	ir TEN	1 - Bulk	TEM - Water	TEM - Du	ust Soil/Vermiculite/Ore
 EPA 600/R-93/116 Visual Estimation (< 400 Point Count 0.2 1,000 Point Count 0.2 Gravimetric Reducti Matrix Reduction (+ NIOSH 9002 OSHA ID-191 	5% O ISO 867 1% O OSHA II ion	07201 O NIOSH 74 2 O ASTM D6	281 O Matri Redu Q Quali	uction (<1%) ix uction (+/-) itative (+/-) p Mount	 ○ EPA 100.2 Drinking Water >10 µm fibers ≥0.5 µm fibers ○ EPA 100.2 Effluent / WW Received on ice: ○ Yes ○ No 		480 • ASTM 7521-TEM (<1%) • CARB 435-Modified • Soil – PLM Only (+/-) • Vermiculite - TEM (+/-) • Vermiculite-Cincinnati
					remp:	1	
	 	METALS	 }		Temp:	SILI	CA/PARTICULATES
Flame	<u> </u>	Graphite Furna		· · · · · · · · · · · · · · · · · · ·			CA/PARTICULATES
Flame A O Lead in Paint - SW84 O Lead in Air - NIOSH O Lead in Wipes - SW84 O Lead in Soil - SW846 O TCLP - SW846-1311	6 7420/3050B 7082 846 7420/3050B 8 7420/3050B		ace AA - EPA 200.9 846-7421 346-7421	 ○ Wipe/Soil ○ Effluent – 		X-Ray	
O Lead in Paint - SW84 O Lead in Air - NIOSH O Lead in Wipes - SW8 O Lead in Soil - SW846	6 7420/3050B 7082 446 7420/3050B 5 7420/3050B /6010B	Graphite Furna LEAD O Drinking Water – E Wastewater – SW O Soil/Sludge – SW8 O Air – NIOSH 7105	ace AA - EPA 200.9 846-7421 346-7421	 ○ Wipe/Soil ○ Effluent – 	ICP in Air – NIOSH 7300 – SW846-6010B SW846-6010B Fume – NIOSH 7300	X-Ray C Respir NIOSH NIOSH NIOSH	Diffraction / Gravimetric rableCrystallineSilica 1 7500 / OSHA 142
O Lead in Paint - SW84 O Lead in Air - NIOSH O Lead in Wipes - SW8 O Lead in Soil - SW846 O TCLP - SW846-1311	6 7420/3050B 7082 446 7420/3050B 5 7420/3050B /6010B	Graphite Furna LEAD O Drinking Water – E Wastewater – SW O Soil/Sludge – SW8 O Air – NIOSH 7105	ace AA - EPA 200.9 846-7421 346-7421	○ Wipe/Soil ○ Effluent – ○ Welding F	ICP in Air – NIOSH 7300 – SW846-6010B SW846-6010B Fume – NIOSH 7300	X-Ray 0	Diffraction / Gravimetric ableCrystallineSilica 17500 / OSHA 142 10500 – Total Particulates 10600 – Respirable Particulates
O Lead in Paint - SW84 O Lead in Air - NIOSH O Lead in Wipes - SW8 O Lead in Soil - SW846 O TCLP - SW846-1311	6 7420/3050B 7082 446 7420/3050B 5 7420/3050B /6010B	Graphite Furna LEAD O Drinking Water – E Wastewater – SW O Soil/Sludge – SW8 O Air – NIOSH 7105	ace AA - EPA 200.9 846-7421 346-7421	O Wipe/Soil O Effluent – O Welding F	ICP in Air – NIOSH 7300 – SW846-6010B SW846-6010B Fume – NIOSH 7300	X-Ray C Respir NIOSH NIOSH NIOSH YES	Diffraction / Gravimetric rableCrystallineSilica 17500 / OSHA 142 10500 – Total Particulates 10600 – Respirable Particulates NO Time:
O Lead in Paint - SW84 O Lead in Air - NIOSH O Lead in Wipes - SW8 O Lead in Soil - SW846 O TCLP - SW846-1311 Total Number C	6 7420/3050B 7082 446 7420/3050B 5 7420/3050B /6010B	Graphite Furna LEAD O Drinking Water – E Wastewater – SW O Soil/Sludge – SW8 O Air – NIOSH 7105	ace AA - EPA 200.9 846-7421 346-7421	O Wipe/Soil O Effluent – O Welding F	ICP in Air NIOSH 7300 SW846-6010B SW846-6010B Fume NIOSH 7300 Stop:	X-Ray Respir NIOSH NIOSH NIOSH NIOSH YES Xe: 7/19	Diffraction / Gravimetric rableCrystallineSilica 17500 / OSHA 142 10500 – Total Particulates 10600 – Respirable Particulates NO
O Lead in Paint - SW84 O Lead in Air - NIOSH O Lead in Wipes - SW84 O Lead in Soil - SW846 O TCLP - SW846-1311 Total Number of Relinquished By:	6 7420/3050B 7082 446 7420/3050B 5 7420/3050B /6010B	Graphite Furna LEAD O Drinking Water – E Wastewater – SW O Soil/Sludge – SW8 O Air – NIOSH 7105	ace AA - EPA 200.9 846-7421 346-7421	O Wipe/Soil O Effluent – O Welding F	ICP in Air - NIOSH 7300 - SW846-6010B SW846-6010B Fume - NIOSH 7300 Stop: •	X-Ray C Respir NIOSH NIOSH YES Re: 7/19 Le: 1/2()	Diffraction / Gravimetric rableCrystallineSilica 17500 / OSHA 142 10500 – Total Particulates 10600 – Respirable Particulates NO Time:

Eurofins J3 Resources, Inc. + 6110 West 34th Street + Houston, Texas 77092 + tel: 713-290-0221 + fax: 713-290-0248

Eurofins J3 Resources, Inc. + 3113 Red Bluff Road + Pasadena, Texas 77503 + tel: 713-290-0223 + fax: 713-290-0248

Revision #v7/MF Revision Date: 3/09/2020

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Page ____ of ____

Project Name WY Rollingstock Inspections Project Number 215WY001 - D&

SAMPLE IDENTIFICATION

VOLUME/CONDITION SAMPLE NUMBER **SAMPLE LOCATION / MATERIAL** CHE-DRGW01486-160721-001 Caulking CHE-DRGW01486-160721-002 Int. Window seams CHE-DRGW01486-160721-003 CHE-DRGW01486-160721-004 Linoleum sheet flooring CHE-DRGW01486-160721-005 Int. floor throughout CHE-DRGW01486-160721-006 CHE-DRGW01486-160721-007 Brown/white sealant CHE-DRGW01486-160721-008 Ext. roof penetrations CHE-DRGW01486-160721-009 **Comments/Special Instructions:**

> Eurofins J3 Resources, Inc. • 6110 West 34th Street • Houston, Texas 77092 • tel: 713-290-0221 • fax: 713-290-0248 Eurofins J3 Resources, Inc. • 3113 Red Bluff Road • Pasadena, Texas 77503 • tel: 713-290-0223 • fax: 713-290-0248

Eurofins J3 Resources, Inc.

3113 Red Bluff Road Pasadena, Texas 77503 Phone: (713) 290-0223 – Fax: (832) 831-5669 *j3resources.com*

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J3 Resources

<u>Lead in Paint Performed by</u> Flame AA – USEPA SW846 7420/3050B (Mod.)

Amanda Wozab Earth Services & Abatement, Inc. 6700 E. 50th Avenue Commerce City, CO 80022

Order #:	JP211028582
Project #:	215WY001
Receipt Date:	21-Jul-2021
Analysis Date:	22-Jul-2021
Report Date:	23-Jul-2021

WY Rollingstock Inspections-D&RGW 01486

SAMPLE ID	PAINT COLOR	LEAD CONCENTRATION (mg/kg)	LEAD CONCENTRATION (%)
CHE-DRGW01486-160721-001L	White	< 50	< 0.005%
CHE-DRGW01486-160721-002L	Yellow	57000	5.7%
CHE-DRGW01486-160721-003L	Black	19000	1.9%
CHE-DRGW01486-160721-004L	Silver	1700	0.17%
CHE-DRGW01486-160721-005L	Gray	86	0.0086%

Reporting Limit = 50.0 mg/kg N/A = Not Applicable INS = Insufficient Sample Weight NS = Not Submitted

Analyst: Shervin Aghaabbasi

Scott Ward, Ph.D. Lab Director

This report relates only to the samples submitted. The analysis has been conducted according to the method(s) listed above. Blank corrections are not applied to data unless requested by the customer. This report is for the exclusive use of the addressed customer and shall not be reproduced except in full without written approval by Eurofins J3 Resources, Inc. (EJ3). EJ3 is an EPA NLLAP recognized lab by the AIHA-LAP, LLC ELLAP (Lab ID: 157714). Unless otherwise noted, all quality control samples performed within specifications established by the laboratory. The estimated accuracy is solely based on recovery data from internal laboratory control samples at the 95% confidence interval of the level of concern, derived from a 287 mg/kg lead in paint matrix reference material. The estimated accuracy does not account for uncertainty associated with the sampling process. Accuracy = +/-9%

IH CHAIN OF CUSTODY

2J Ge Seuszonly)

🛟 eurofins

J3 Resources

Open Lab Fee

Submitter Name:	Joseph Kulm				Bill to:	Same		
Company:	Earth Service	es & Abate	ement, llc		Address:			
Address:	6700 E 50th A	ve	·			·		
		-			City/State):	Zip	
City/State: Cor	nmerce City , 0	20	Zip: 8002	2		15WY001	- p	
City/State.			the second se		nformati	······		
Project Name: WY	Rollingstock In	spections				ct Manager: Ama	nda Wozab	
Project #: 215WY0					Telep	hone – Office/Ce	II 402-578-685	58
Reports - Email Add	ress: amanda	wozab@	esasite.com,	joseph	n.kulm@es	asite.com, robert.	szynskie@esa	asite.com
Invoice - Email Add		-					· · ·	bal: 🗖
Special Instructions	:							
		Tu	rnaround '	Times	s — Please	Select One		
Emergency*	□ 1	Day 🗇		2 Day		3 Day		5 Day 🛛
				ASB	ESTOS			
PLM - Bulk	PCM -	Air	TEM - Air	TE	V - Bulk	TEM - Water	TEM - Dust	TEM/PLM Soil/Vermiculite/Ore
EPA 600/R-93/116 Visual Estimation (< 400 Point Count 0.2 1,000 Point Count 0 Gravimetric Reduction Matrix Reduction (+ NIOSH 9002 OSHA ID-191	5% 0 ISO 867 .1% 0 OSHA II ion	7201 O 2 O)-160 O	AHERA NIOSH 7402 ASTM D6281 ISO 10312 ISO 13794	Redu O Matr Redu O Qua	uction (+/-) litative (+/-) op Mount	 ○ EPA 100.2 Drinking Water >10 µm fibers ≥0.5 µm fibers ○ EPA 100.2 Effluent / WW Received on ice: ○ Yes ○ No Temp: 	 ASTM D5755 Microvac ASTM D6480 Wipe 600/J-93/167 Carpet - EPA Bulk Dust Qualitative 	OASTM 7521-TEM (<1%)
		٩	IETALS				SILICA	/PARTICULATES
Flame	AA	Grapt	ite Furnace / LEAD	AA -		ICP	X-Ray Di	ffraction / Gravimetric
& Lead in Paint - SW84 O Lead in Air - NIOSH O Lead in Wipes - SW8 O Lead in Soil - SW846 O TCLP - SW846-1311	7082 346 7420/3050B 3 7420/3050B	O Wastew O Soil/Slu	9 Water – EPA 2 vater – SW846-7 dge – SW846-7 OSH 7105	7421	 ○ Wipe/Soil ○ Effluent - 	in Air – NIOSH 7300 I – SW846-6010B - SW846-6010B Fume – NIOSH 73001	M O NIOSH 05	eCrystalline Silica 00 / OSHA 142 00 – Total Particulates 00 – Respirable Particulates
Total Number o	of Samples	Submitt	ed: 5		Positive	e Stop: 🛛	YES 🖸	NO
	Λ	100	1/	Sigr	natures			
Relinquished By:	(Jm	<u> </u>	/	2		Date	1/10/21	_ Time:
Received By:						Date		_Time: <u>):30</u>
Relinquished By:						Date		Time:
Received By:		on All named	os analuzad outo	de pormo	l huginage have	Date s are charged at Emerge		Time:

Eurofins J3 Resources, Inc. + 6110 West 34th Street + Houston, Texas 77092 + tel: 713-290-0221 + fax: 713-290-0248

Eurofins J3 Resources, Inc. + 3113 Red Bluff Road + Pasadena, Texas 77503 + tel: 713-290-0223 + fax: 713-290-0248

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Project Name WY Rollingstock Inspections Project Number 215WY001 - D&

SAMPLE IDENTIFICATION

Page ____ of ____

J3 Resources

SAMPLE NUMBER	SAMPLE LOCATION / MATERIAL	VOLUME/CONDITION
CHE-DRGW01486-160721-001L	White	
	Int.	
CHE-DRGW01486-160721-002L	Yellow	
	Ext. upper half	
CHE-DRGW01486-160721-003L	Black	
	Undercarriage and lower half of exterior	
CHE-DRGW01486-160721-004L	Silver	
	Ext. handrails and knuckles	
CHE-DRGW01486-160721-005L	Gray	
	Int. pop-up stairs and trim	
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Eurofins J3 Resources, Inc. + 6110 West 34th Street + Houston, Texas 77092 + tel: 713-290-0221 + fax: 713-290-0248 Eurofins J3 Resources, Inc. + 3113 Red Bluff Road +Pasadena, Texas 77503 + tel: 713-290-0223 + fax: 713-290-0248 LIMS Version: 7.020

Amanda Wozab Earth Services & Abatement 6700 E. 50th Ave. Commerce City, CO 80022

Re: ALS Workorder: 2107412 Project Name: Cheyenne RS Project Number: 215WY001

Dear Ms. Wozab:

One solid sample was received from Earth Services & Abatement, on 7/21/2021. The sample was scheduled for the following analysis:

PCBs

The results for these analyses are contained in the enclosed reports.

The data contained in the following report have been reviewed and approved by the personnel listed below. In addition, ALS certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental.

Thank you for your confidence in ALS Environmental. Should you have any questions, please call.

Sincerely,

ALS Environmental Katie M. OBrien Project Manager



2107412

PCB:

The sample was analyzed using GC/ECD (electron capture detectors) according to the current revision of SOP 409 based on SW-846 Method 8082.

All acceptance criteria were met.

ALS -- Fort Collins

Sample Number(s) Cross-Reference Table

OrderNum: 2107412 Client Name: Earth Services & Abatement Client Project Name: Cheyenne RS Client Project Number: 215WY001 Client PO Number:

	Client Sample Number	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
-	CHE-DRGW01486-160721-001P	2107412-1		SOLID	17-Jul-21	



Chain-of-Custody



PROJECT NAME Cheyenne RS STEE ID Darkow 01466 TURNAROUT PROJECT No. 215WY001 EDD FORMAT EDD FORMAT TOTAL TURNAROUT Earth Services & Abatement TURNAROUT REDN KEPORT TO 215WY001 EJD FORMAT ELL TO COMPANY RAME Earth Services & Abatement TURNAROUT SEND REFORT TO Earth Services & Abatement BLL TO COMPANY RAME Earth Services & Abatement Earth Services & Abatement CONTAINT Earth Services & Abatement BLL TO COMPANY RAME Earth Services & Abatement Earth Services & Abatement CONTAINT Earth Services & Abatement BLL TO COMPANY RAME Earth Services & Abatement Earth Services & Abatement ADDRESS 6700 E. 50th Ave. Abatement INVOICE ATTN TO Earth Services & Abatement ADDRESS 6700 E. 50th Ave. Abatement INVOICE S0th Ave. Son 991-1280 Earth Services & Abatement FAM 303-991-1282 Frax 303-991-1282 Frax Earth Services & Abatement F. Add 303-991-1282 Frax 303-991-1282 Frax Earth Services & Abatement	Cheryenne RS SITE ID Darcew 01466 Parcew 01471003 Parcew 01471003 Parcew 01471	Chevenue RS SITE ID D BARGW 01466 D SITE ID D SITE ID <th>Cheryentine RS STEE ID Lancetwortates 215W/V011 EDD FORMAT EDD FORMAT 215W/V011 EDD FORMAT PURCHASE ORDER 215W/V011 PURCHASE ORDER EDD FORMAT Earth Services & Abatement BLL TO COMPANY Earth Services & Abatement 6700 E. S0th Ave. MONDER TITE Commerce City, CO 80022 303-991-1280 MONDER State City, CO 80022 Strone State City, CO 80022 303-991-1280 Monteree City, CO 80022 Strone State City, CO 80022 303-991-1282 FMA Strone State City, CO 80022 303-991-1282 FMA Strone State City, CO 80022 Annandek Wonshöfessife.com Strone FxX Strone State City, CO 80022 303-991-1282 FMA Strone State City, CO 80022 Annandek Wonshöfessife.com Strone FxX Strone State City, CO 80022 Annandek Wonshöfessife.com Strone FxX Strone FxX Annandek Wonshöfessife.com E-AMA Strone FxX Annandek Wonshöfessife.com E-AMA Strone FxX Annandek Wonshöfessife.com F-AMA Strone FxX <tr< th=""><th>SITE ID ENCONTART SITE ID ENCONTART <</th><th>SITE D Dates or 04466 EDD FORMAT EDD FORMAT EDD FORMAT Each Services & Abatement PURCHASE ORDER BILLTO COMPANY BILLTO COMPANY Earth Services & Abatement MVORCE ATTN 10 MVORCE ATTN 10 CITY (STATE IZP Commerce City, CO 80022 FAM 303-991-1280 FAM 303-991-1282 FAM 303-991-1282 FAM 303-991-1282 FAM 303-991-1282 FAM Sample FAM 303-991-1282 FAM N <th>ALS</th><th></th><th>SAMPLER</th><th>SAMPLER Joseph Kulm</th><th></th><th></th><th>DATE</th><th></th><th>Form 202</th><th>Form 202r8</th><th>Form 202r8 PAGE 1</th></th></tr<></th>	Cheryentine RS STEE ID Lancetwortates 215W/V011 EDD FORMAT EDD FORMAT 215W/V011 EDD FORMAT PURCHASE ORDER 215W/V011 PURCHASE ORDER EDD FORMAT Earth Services & Abatement BLL TO COMPANY Earth Services & Abatement 6700 E. S0th Ave. MONDER TITE Commerce City, CO 80022 303-991-1280 MONDER State City, CO 80022 Strone State City, CO 80022 303-991-1280 Monteree City, CO 80022 Strone State City, CO 80022 303-991-1282 FMA Strone State City, CO 80022 303-991-1282 FMA Strone State City, CO 80022 Annandek Wonshöfessife.com Strone FxX Strone State City, CO 80022 303-991-1282 FMA Strone State City, CO 80022 Annandek Wonshöfessife.com Strone FxX Strone State City, CO 80022 Annandek Wonshöfessife.com Strone FxX Strone FxX Annandek Wonshöfessife.com E-AMA Strone FxX Annandek Wonshöfessife.com E-AMA Strone FxX Annandek Wonshöfessife.com F-AMA Strone FxX <tr< th=""><th>SITE ID ENCONTART SITE ID ENCONTART <</th><th>SITE D Dates or 04466 EDD FORMAT EDD FORMAT EDD FORMAT Each Services & Abatement PURCHASE ORDER BILLTO COMPANY BILLTO COMPANY Earth Services & Abatement MVORCE ATTN 10 MVORCE ATTN 10 CITY (STATE IZP Commerce City, CO 80022 FAM 303-991-1280 FAM 303-991-1282 FAM 303-991-1282 FAM 303-991-1282 FAM 303-991-1282 FAM Sample FAM 303-991-1282 FAM N <th>ALS</th><th></th><th>SAMPLER</th><th>SAMPLER Joseph Kulm</th><th></th><th></th><th>DATE</th><th></th><th>Form 202</th><th>Form 202r8</th><th>Form 202r8 PAGE 1</th></th></tr<>	SITE ID ENCONTART SITE ID ENCONTART <	SITE D Dates or 04466 EDD FORMAT EDD FORMAT EDD FORMAT Each Services & Abatement PURCHASE ORDER BILLTO COMPANY BILLTO COMPANY Earth Services & Abatement MVORCE ATTN 10 MVORCE ATTN 10 CITY (STATE IZP Commerce City, CO 80022 FAM 303-991-1280 FAM 303-991-1282 FAM 303-991-1282 FAM 303-991-1282 FAM 303-991-1282 FAM Sample FAM 303-991-1282 FAM N <th>ALS</th> <th></th> <th>SAMPLER</th> <th>SAMPLER Joseph Kulm</th> <th></th> <th></th> <th>DATE</th> <th></th> <th>Form 202</th> <th>Form 202r8</th> <th>Form 202r8 PAGE 1</th>	ALS		SAMPLER	SAMPLER Joseph Kulm			DATE		Form 202	Form 202r8	Form 202r8 PAGE 1
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ALS Environmental - Fort Collins CONDITION OF SAMPLE UPON RECEIPT FORM

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Project N	Manager:	KMO		Initials	: JPE	Date:	07/	21/2021	
							N/A	YES	NO
^{1.} Are airbills	/ shipping	g documents present and/or	removable	e?				N/	
Tracking	number: 2	2815 9831 3879						Х	l
		shipping containers intact?	,				Х		
3. Are custod	y seals on	sample containers intact?					Х		
4. Is there a C	OC (chain	n-of-custody) present?						Х	
5.	-	nent with samples received? equested analyses, etc.)	(IDs, dates)	, times, #	of sampl	es, # of		х	
6. Are short-h	iold samp	les present?							Х
7. Are all sam	ples with	in holding times for the requ	lested anal	yses?				Х	
8. Were all sa	mple con	tainers received intact? (no	t broken o	r leaking)			Х	
9. Is there suf	ficient sa	mple for the requested analy	yses?					Х	
10. Are sample Guidelines)	s in prope	er containers for requested a	analyses? (i	form 250,	Sample Ha	ndling		х	
11. Are all aque	eous sam	ples preserved correctly, if r	equired? (e	excludin	g volatile	s)	Х		
Are all sam	ples requ	iring no headspace (VOC, GR ameter? (i.e. size of green p	RO, RSK/MI		•		х		
^{13.} Were the s	amples sh	nipped on ice?							Х
^{14.} Were cooler	temperate	ures measured at 0.1-6.0°C?	IR gun used*:	#5			RAD ONLY		Х
	Cooler #:			I			<u> </u>		
Tempera		AMB							
# of custody seals		0							
External µR/				<u></u>					
Background µR/	-	11							
Were external p	µR/hr reading	gs ≤ two times background and within [DOT acceptance	e criteria?	YES / NO /	NA (If no, se	ee Form 00	8.)	
* Please provide	e details he	re for NO responses to boxes ab	ove - for 2 tl	hru 5 & 7	thru 12, n	otify PM &	continue	w/ login.	
Noroupproces	nd bottle-	nH chockod? VES / NA	Λ.II. «!!	ont hattl					, IE
·		pH checked? YES / NA			S VS AL	_S lab ID's o			/ JE
		ontacted? YES / NO / NA Contact					Date/1	7/22/2	21
Project Manage	ər Signatur	re / Date: [[]///////////////////////////////////	1				_	.,, _	
Form 201r30 xls									

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Collection Date: 7/17/2021

Client:

Project:

Sample ID:

Legal Location:

Earth Services & Abatement

CHE-DRGW01486-160721-001P

215WY001 Cheyenne RS

SAMPLE SUMMARY REPORT

Date: 09-Aug-21

Work Order: 2107412

Lab ID: 2107412-1

Matrix: SOLID

Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBs		SW80	082	Prep	Date: 7/30/2021	PrepBy: CPC
AROCLOR-1016	ND		2	MG/KG	6	8/6/2021 17:02
AROCLOR-1221	ND		4.1	MG/KG	6	8/6/2021 17:02
AROCLOR-1232	ND		2	MG/KG	6	8/6/2021 17:02
AROCLOR-1242	ND		2	MG/KG	6	8/6/2021 17:02
AROCLOR-1248	ND		2	MG/KG	6	8/6/2021 17:02
AROCLOR-1254	ND		2	MG/KG	6	8/6/2021 17:02
AROCLOR-1260	ND		2	MG/KG	6	8/6/2021 17:02
Surr: TETRACHLORO-M-XYLENE	80		69-129	%REC	6	8/6/2021 17:02
Surr: DECACHLOROBIPHENYL	93		55-135	%REC	6	8/6/2021 17:02

Analyses		Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Collection Date	: 7/17/2021				Perc	ent Moisture:	
Legal Location:						Matrix: SOL	ID
Sample ID:	CHE-DRGW01486	-160721-001P				Lab ID: 2107	7412-1
Project:	215WY001 Cheyen	ne RS				Work Order: 2107	412
Client:	Earth Services & A	oatement				Date: 09-A	ug-21

MDC.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

P - LCS, Matrix Spike Recovery within control limits.

NC - Not Calculated for duplicate results less than 5 times MDC

B3 - Analyte concentration greater than MDC but less than Requested

N - Matrix Spike Recovery outside control limits

B - Analyte concentration greater than MDC.

L - LCS Recovery below lower control limit.

H - LCS Recovery above upper control limit.

Radiochemistry:

- "Report Limi	t" is the MDC
----------------	---------------

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U or ND - Result is less than the sample specific MDC.

Y1 - Chemical Yield is in control at 100-110%. Quantitative yield is assumed.

- Y2 Chemical Yield outside default limits.
- W DER is greater than Warning Limit of 1.42
- * Aliquot Basis is 'As Received' while the Report Basis is 'Dry Weight'.
- # Aliquot Basis is 'Dry Weight' while the Report Basis is 'As Received'.
- G Sample density differs by more than 15% of LCS density.
- D DER is greater than Control Limit
- M Requested MDC not met.

Inorganics:

B - Result is less than the requested reporting limit but greater than the instrument method detection limit (MDL).

U or ND - Indicates that the compound was analyzed for but not detected.

E - The reported value is estimated because of the presence of interference. An explanatory note may be included in the narrative.

- M Duplicate injection precision was not met.
- N Spiked sample recovery not within control limits. A post spike is analyzed for all ICP analyses when the matrix spike and or spike duplicate fail and the native sample concentration is less than four times the spike added concentration.
- Z Spiked recovery not within control limits. An explanatory note may be included in the narrative.
- * Duplicate analysis (relative percent difference) not within control limits.
- S SAR value is estimated as one or more analytes used in the calculation were not detected above the detection limit.

Organics:

U or ND - Indicates that the compound was analyzed for but not detected.

- B Analyte is detected in the associated method blank as well as in the sample. It indicates probable blank contamination and warns the data user.
- E Analyte concentration exceeds the upper level of the calibration range.
- J Estimated value. The result is less than the reporting limit but greater than the instrument method detection limit (MDL).
- A A tentatively identified compound is a suspected aldol-condensation product.
- X The analyte was diluted below an accurate quantitation level.
- * The spike recovery is equal to or outside the control criteria used.
- + The relative percent difference (RPD) equals or exceeds the control criteria.
- G A pattern resembling gasoline was detected in this sample.
- D A pattern resembling diesel was detected in this sample.
- M A pattern resembling motor oil was detected in this sample.
- C A pattern resembling crude oil was detected in this sample.
- 4 A pattern resembling JP-4 was detected in this sample.
- 5 A pattern resembling JP-5 was detected in this sample.
- H Indicates that the fuel pattern was in the heavier end of the retention time window for the analyte of interest.
- L Indicates that the fuel pattern was in the lighter end of the retention time window for the analyte of interest.
- Z This flag indicates that a significant fraction of the reported result did not resemble the patterns of any of the following petroleum hydrocarbon products: - gasoline
- JP-8
- diesel
- mineral spirits
- motor oil
- Stoddard solvent
- bunker C

SAMPLE SUMMARY REPORT

ALS -- Fort Collins

Client:	Earth Services & Abatement
Work Order:	2107412
Project:	215WY001 Cheyenne RS

QC BATCH REPORT

Batch ID: EX210730-3-1	Instrument ID: Pes	st-1		Method: S	W8082						
LCS Sample ID: EX2107	30-3			U	Units: MG/K	G	Analy	sis Date: 8	/6/2021	14:13	
Client ID:	Run II	D: PT210806-1	1				Prep Date: 7/3	0/2021	DF	:1	
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qua
AROCLOR-1016	0.133	0.0333	0.133		99	80-120				50	
AROCLOR-1260	0.137	0.0333	0.133		103	80-125				50	
Surr: TETRACHLORO-M-XYLENE	0.0152		0.0167		91	69-129					
Surr: DECACHLOROBIPHENYL	0.0187		0.0167		112	55-135					
LCSD Sample ID: EX2107	30-3			U	Inits: MG/K	G	Analy	sis Date: 8	/6/2021	14:32	
Client ID:	Run II	D: PT210806-1	1			I	Prep Date: 7/3	0/2021	DF	: 1	
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qua
AROCLOR-1016	0.125	0.0333	0.133		94	80-120		0.133	6	50	
AROCLOR-1260	0.131	0.0333	0.133		99	80-125		0.137	4		
Surr: TETRACHLORO-M-XYLENE	0.015	0.0000	0.0167		90	69-129		0.101	1		
Surr: DECACHLOROBIPHENYL	0.0178		0.0167		107	55-135			5		
MB Sample ID: EX2107	30-3			U	Inits: MG/K	G	Analy	sis Date: 8	/6/2021	11:25	
Client ID:	Run II	D: PT210806-1	1				Prep Date: 7/3	0/2021	DF	: 1	
Analyte	Result	ReportLimit									Qua
AROCLOR-1016	ND	0.033									
AROCLOR-1221	ND	0.067									
AROCLOR-1232	ND	0.033									
AROCLOR-1242	ND	0.033									
AROCLOR-1248	ND	0.033									
AROCLOR-1254	ND	0.033									
AROCLOR-1260	ND	0.033									
Surr: TETRACHLORO-M-XYLENE	0.0158				95	69-129					
Surr: DECACHLOROBIPHENYL	0.0178				107	55-135					

The following samples were analyzed in this batch:

2107412-1

Appendix 3 - Modified Sawyer Algorithm

Report Date	08/10/2021
Rolling Stock Type	Caboose
Rolling Stock No	D&RGW 01486

SAWYER ALGORITHM PRIORITY

Asbestos Potential Exposure and Priority Level Algorithm Asset Number D&RGW 01486 **Exposure Area** Roof penetration **Asbestos Containing Material** Brown/white sealant CHE-DRGW01486-160721-007 thru Sample Number 009 Size NA Quantity 8 L F MATERIAL CONDITION (MC) 2 0 =No damage, excellent condition 1 =Very minor damage, no visible debris 2 =Damage is evident, small area 3 =Damage is easily seen, some debris 4 =Damage is widespread, debris is common 5 =Most or all material is damaged, hanging, and / or found as debris throughout the area

and / or found as debris throughout the area	
BUILDING AGE (BA)	1
1 =>30 years old	
0 =15 - 30 years old	
-1 =<15 years old	
MATERIAL TYPE	
Pipe Covering (PC)	NA
1 =MAG/CAL Silicate	·
-1 =Air Cell / paper	
Ceiling Plasters or Fireproofing (CP)	NA
 -1 =Cementitious (Monocoat) 	
0 =Standard	
1 ="Cotton Candy" texture	
WATER DAMAGE (WD)	0
0 =No water damage	·
1 =Small amount of damage can be seen;	
damage is localized rather than widespread	
2 =Good deal of water damage; widespread	
ROOF CHARACTERISTICS (RC)	NA
-0.5 =Sloped or Hipped	
-0.5 =Metal or Concrete	
0.5 =Flat or Built-up	
EXPOSED SURFACE AREA (ESA)	4
0 =Material behind a permanent enclosure	
2 =Material behind a lay-in ceiling or in open tunnel	
4 =Material is exposed	
	3
0 =Totally inaccessible 1 =Can only reach with hands, ie. pipe chase	
2 = An open tunnel or above a drop ceiling	
3 =Exposed overall, but can't reach, ie. >10' high	
4 =Material is out in the open and <10' high	
ACTIVITY AND MOVEMENT (A/M)	1
0 =No occupants enter the area	I
1 =Area is accessed infrequently	
2 =Area is accessed frequently	
WORK ENVIRONMENT (WE)	
	0.5
-0.5 =Sedentary	0.5
-0.5 =Sedentary 0.5 =Non-sedentary	0.5
0.5 =Non-sedentary SOUND AND MECHANICAL VIBRATIONS (SMV) 0.5 =Frequent or Constant	0.5
0.5 =Non-sedentary SOUND AND MECHANICAL VIBRATIONS (SMV)	
0.5 =Non-sedentary SOUND AND MECHANICAL VIBRATIONS (SMV) 0.5 =Frequent or Constant	
0.5 =Non-sedentary SOUND AND MECHANICAL VIBRATIONS (SMV) 0.5 =Frequent or Constant -0.5 =No recognizable vibration AIR - PLENUM / AIR STREAM (AP) 0 =No air plenum or air flow	0.5
0.5 =Non-sedentary SOUND AND MECHANICAL VIBRATIONS (SMV) 0.5 =Frequent or Constant -0.5 =No recognizable vibration AIR - PLENUM / AIR STREAM (AP) 0 =No air plenum or air flow 1 =Air plenum or air flow exists	0.5
0.5 =Non-sedentary SOUND AND MECHANICAL VIBRATIONS (SMV) 0.5 =Frequent or Constant -0.5 =No recognizable vibration AIR - PLENUM / AIR STREAM (AP) 0 =No air plenum or air flow 1 =Air plenum or air flow exists VELOCITY (if Air Plenum = 1) (VEL)	0.5
0.5 =Non-sedentary SOUND AND MECHANICAL VIBRATIONS (SMV) 0.5 =Frequent or Constant -0.5 =No recognizable vibration AIR - PLENUM / AIR STREAM (AP) 0 =No air plenum or air flow 1 =Air plenum or air flow exists VELOCITY (if Air Plenum = 1) (VEL) 0.25 =Recognizable by human feeling	0.5
0.5 =Non-sedentary SOUND AND MECHANICAL VIBRATIONS (SMV) 0.5 =Frequent or Constant -0.5 =No recognizable vibration AIR - PLENUM / AIR STREAM (AP) 0 =No air plenum or air flow 1 =Air plenum or air flow exists VELOCITY (if Air Plenum = 1) (VEL) 0.25 =Recognizable by human feeling -0.25 =Non-recognizable by human feeling	0.5
0.5 =Non-sedentary SOUND AND MECHANICAL VIBRATIONS (SMV) 0.5 =Frequent or Constant -0.5 =No recognizable vibration AIR - PLENUM / AIR STREAM (AP) 0 =No air plenum or air flow 1 =Air plenum or air flow exists VELOCITY (if Air Plenum = 1) (VEL) 0.25 =Recognizable by human feeling -0.25 =Non-recognizable by human feeling FLOW (if Air Plenum = 1) (FL)	0.5
0.5 =Non-sedentary SOUND AND MECHANICAL VIBRATIONS (SMV) 0.5 =Frequent or Constant -0.5 =No recognizable vibration AIR - PLENUM / AIR STREAM (AP) 0 =No air plenum or air flow 1 =Air plenum or air flow exists VELOCITY (if Air Plenum = 1) (VEL) 0.25 =Recognizable by human feeling -0.25 =Non-recognizable by human feeling FLOW (if Air Plenum = 1) (FL) -0.25 =Constant, steady stream	0.5
0.5 =Non-sedentary SOUND AND MECHANICAL VIBRATIONS (SMV) 0.5 =Frequent or Constant -0.5 =No recognizable vibration AIR - PLENUM / AIR STREAM (AP) 0 =No air plenum or air flow 1 =Air plenum or air flow exists VELOCITY (if Air Plenum = 1) (VEL) 0.25 =Recognizable by human feeling -0.25 =Non-recognizable by human feeling FLOW (if Air Plenum = 1) (FL) -0.25 =Constant, steady stream 0.25 =Impact, gusty flow	0.5 1 0.25 0.25
0.5 =Non-sedentary SOUND AND MECHANICAL VIBRATIONS (SMV) 0.5 =Frequent or Constant -0.5 =No recognizable vibration AIR - PLENUM / AIR STREAM (AP) 0 =No air plenum or air flow 1 =Air plenum or air flow exists VELOCITY (if Air Plenum = 1) (VEL) 0.25 =Recognizable by human feeling -0.25 =Non-recognizable by human feeling FLOW (if Air Plenum = 1) (FL) -0.25 =Constant, steady stream 0.25 =Impact, gusty flow FRIABILITY (F)	0.5
0.5 =Non-sedentary SOUND AND MECHANICAL VIBRATIONS (SMV) 0.5 =Frequent or Constant -0.5 =No recognizable vibration AIR - PLENUM / AIR STREAM (AP) 0 =No air plenum or air flow 1 =Air plenum or air flow exists VELOCITY (if Air Plenum = 1) (VEL) 0.25 =Recognizable by human feeling -0.25 =Non-recognizable by human feeling FLOW (if Air Plenum = 1) (FL) -0.25 = constant, steady stream 0.25 = Impact, gusty flow FRIABILITY (F) 1 =Very hard to crumble under hand pressure	0.5 1 0.25 0.25
0.5 =Non-sedentary SOUND AND MECHANICAL VIBRATIONS (SMV) 0.5 =Frequent or Constant -0.5 =No recognizable vibration AIR - PLENUM / AIR STREAM (AP) 0 =No air plenum or air flow 1 =Air plenum or air flow exists VELOCITY (if Air Plenum = 1) (VEL) 0.25 =Recognizable by human feeling -0.25 =Roon-recognizable by human feeling -0.25 =Constant, steady stream 0.25 =Impact, gusty flow FRIABILITY (F) 1 =Very hard to crumble under hand pressure 2 = Will crumble under a little hand pressure	0.5 1 0.25 0.25
0.5 =Non-sedentary SOUND AND MECHANICAL VIBRATIONS (SMV) 0.5 =Frequent or Constant -0.5 =No recognizable vibration AIR - PLENUM / AIR STREAM (AP) 0 =No air plenum or air flow 1 =Air plenum or air flow exists VELOCITY (if Air Plenum = 1) (VEL) 0.25 =Recognizable by human feeling -0.25 =Non-recognizable by human feeling -0.25 =Constant, steady stream 0.25 =Impact, gusty flow FRIABILITY (F) 1 =Very hard to crumble under hand pressure 2 = Will crumble under a little hand pressure 3 =Extremely easy to crumble under light pressure	0.5 1 0.25 1 1 0.25 1
0.5 =Non-sedentary SOUND AND MECHANICAL VIBRATIONS (SMV) 0.5 =Frequent or Constant -0.5 =No recognizable vibration AIR - PLENUM / AIR STREAM (AP) 0 =No air plenum or air flow 1 =Air plenum or air flow exists VELOCITY (if Air Plenum = 1) (VEL) 0.25 =Recognizable by human feeling -0.25 =Non-recognizable by human feeling -0.25 =Constant, steady stream 0.25 =Impact, gusty flow FRIABILITY (F) 1 =Very hard to crumble under hand pressure 2 = Will crumble under a little hand pressure 3 =Extremely easy to crumble under light pressure ASBESTOS CONTENT (ASB)	0.5 1 0.25 0.25
0.5 =Non-sedentary SOUND AND MECHANICAL VIBRATIONS (SMV) 0.5 =Frequent or Constant -0.5 =No recognizable vibration AIR - PLENUM / AIR STREAM (AP) 0 =No air plenum or air flow 1 =Air plenum or air flow exists VELOCITY (if Air Plenum = 1) (VEL) 0.25 =Recognizable by human feeling -0.25 =Non-recognizable by human feeling -0.25 =Non-recognizable by human feeling FLOW (if Air Plenum = 1) (FL) -0.25 =Constant, steady stream 0.25 =Impact, gusty flow FRIABILITY (F) 1 = Very hard to crumble under hand pressure 2 = Will crumble under a little hand pressure 3 =Extremely easy to crumble under light pressure ASBESTOS CONTENT (ASB) 0 =None <1%	0.5 1 0.25 1 1 0.25 1
0.5 =Non-sedentary SOUND AND MECHANICAL VIBRATIONS (SMV) 0.5 =Frequent or Constant -0.5 =No recognizable vibration AIR - PLENUM / AIR STREAM (AP) 0 =No air plenum or air flow 1 =Air plenum or air flow exists VELOCITY (if Air Plenum = 1) (VEL) 0.25 =Recognizable by human feeling -0.25 =Non-recognizable by human feeling -0.25 =Constant, steady stream 0.25 =Impact, gusty flow FRIABILITY (F) 1 =Very hard to crumble under hand pressure 2 = Will crumble under a little hand pressure 3 =Extremely easy to crumble under light pressure ASBESTOS CONTENT (ASB)	0.5 1 0.25 1 1 0.25 1
0.5 =Non-sedentary SOUND AND MECHANICAL VIBRATIONS (SMV) 0.5 =Frequent or Constant -0.5 =No recognizable vibration AIR - PLENUM / AIR STREAM (AP) 0 =No air plenum or air flow 1 =Air plenum or air flow exists VELOCITY (if Air Plenum = 1) (VEL) 0.25 =Recognizable by human feeling -0.25 =Non-recognizable by human feeling FLOW (if Air Plenum = 1) (FL) -0.25 =Constant, steady stream 0.25 =Impact, gusty flow FRIABILITY (F) 1 =Very hard to crumble under hand pressure 2 = Will crumble under a little hand pressure 3 =Extremely easy to crumble under light pressure ASBESTOS CONTENT (ASB) 0 =None <1% 1 =1% to 10% Asbestos	0.5 1 0.25 1 1 0.25 1
0.5 =Non-sedentary SOUND AND MECHANICAL VIBRATIONS (SMV) 0.5 =Frequent or Constant -0.5 =No recognizable vibration AIR - PLENUM / AIR STREAM (AP) 0 =No air plenum or air flow 1 =Air plenum or air flow exists VELOCITY (if Air Plenum = 1) (VEL) 0.25 =Recognizable by human feeling -0.25 =Non-recognizable by human feeling -0.25 =Constant, steady stream 0.25 =Impact, gusty flow FRIABILITY (F) 1 =Very hard to crumble under hand pressure 2 = Will crumble under a little hand pressure 3 =Extremely easy to crumble under light pressure ASBESTOS CONTENT (ASB) 0 =None <1% 1 =1% to 10% Asbestos 2 =11% to 50% Asbestos 3 =51% to 100% Asbestos	0.5 1 0.25 0.25 1 1 1
0.5 =Non-sedentary SOUND AND MECHANICAL VIBRATIONS (SMV) 0.5 =Frequent or Constant -0.5 =No recognizable vibration AIR - PLENUM / AIR STREAM (AP) 0 =No air plenum or air flow 1 =Air plenum or air flow exists VELOCITY (if Air Plenum = 1) (VEL) 0.25 =Recognizable by human feeling -0.25 =Non-recognizable by human feeling -0.25 =Constant, steady stream 0.25 =Impact, gusty flow FRIABILITY (F) 1 =Very hard to crumble under hand pressure 2 = Will crumble under a little hand pressure 3 =Extremely easy to crumble under light pressure ASBESTOS CONTENT (ASB) 0 =None <1% 1 =1% to 10% Asbestos 2 =11% to 50% Asbestos	0.5 1 0.25 1 1 0.25 1
0.5 =Non-sedentary SOUND AND MECHANICAL VIBRATIONS (SMV) 0.5 =Frequent or Constant -0.5 =No recognizable vibration AIR - PLENUM / AIR STREAM (AP) 0 =No air plenum or air flow 1 =Air plenum or air flow exists VELOCITY (if Air Plenum = 1) (VEL) 0.25 =Recognizable by human feeling -0.25 =Non-recognizable by human feeling -0.25 =Constant, steady stream 0.25 =Impact, gusty flow FRIABILITY (F) 1 =Very hard to crumble under hand pressure 2 = Will crumble under a little hand pressure 3 =Extremely easy to crumble under light pressure ASBESTOS CONTENT (ASB) 0 =None <1% 1 =1% to 10% Asbestos 2 =11% to 50% Asbestos 3 =51% to 100% Asbestos	0.5 1 0.25 0.25 1 1 1 1 1 13.5
0.5 =Non-sedentary SOUND AND MECHANICAL VIBRATIONS (SMV) 0.5 =Frequent or Constant -0.5 =No recognizable vibration AIR - PLENUM / AIR STREAM (AP) 0 =No air plenum or air flow 1 =Air plenum or air flow exists VELOCITY (if Air Plenum = 1) (VEL) 0.25 =Recognizable by human feeling -0.25 =Non-recognizable by human feeling -0.25 =Constant, steady stream 0.25 =Impact, gusty flow FRIABILITY (F) 1 =Very hard to crumble under hand pressure 2 = Will crumble under a little hand pressure 3 =Extremely easy to crumble under light pressure ASBESTOS CONTENT (ASB) 0 =None <1% 1 =1% to 10% Asbestos 2 =11% to 50% Asbestos 3 =51% to 100% Asbestos	0.5 1 0.25 0.25 1 1 1



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August 10th, 2021

Union Pacific Railroad Asbestos Program c/o GHD 3807 South 148th Street Omaha, NE 68144

RE: WY, Cheyenne, Rollingstock D&RGW 01489, Requested NESHAP Inspection Earth Services & Abatement Project Number: 215WY001

To Whom It May Concern,

Please find our NESHAP report for the above-mentioned requested inspection. Earth Services & Abatement's Joseph Kulm inspected UPRR railcar D&RGW 01489 for suspect asbestos-, lead-, and PCB-containing materials. The inspection work took place on July 15th, 2021.

No previous reports were provided for review prior to inspection.

Refer to the report for a summary of this inspection, including inspection/lab results, inspection photographs, and schematics.

If you have any questions or need anything else for this project, please do not hesitate to contact us.

Conducted by,

Jospeh Kulm Inspector Earth Services & Abatement

Reviewed by,

Best Syphie

Robert Szynskie Program Director Earth Services & Abatement Robert.szynskie@esasite.com Cell – 720-206-9238

UNION PACIFIC	Rolling Stock	Asbe	estos Insp	ection	Report		
				Inspe	ction Start Date	07/15/202	21
BUILDING AMERICA ^{**} Inspection Type				Inspe	ction End Date	07/15/202	21
X Initial Inspection	Reinspection	X NE	SHAP Inspection	Repor	t Date	08/10/202	21
Inspection Comp	•						
Company Earth S	ervices & Abatement		License No.	16608			
Address 6700 E 50	Oth Ave		City Comr	merce City	,		
			State CO	Z	Zip <u>80022</u>		
Inspector Informa	ation						
First Name Joseph		Las	t Name Kuln	n			
License Type AHE	ERA License No.	C6LEMQ	A0R3U	Lice	nse State		
Asset Information	1						
Rolling Stock Type	Caboose						
Rolling Stock No	D&RGW 01489		Car Name	D&RGV	V; 01489		
Yard Name	Cheyenne		Subdivision	Unknov	vn		
Address	East Union Pacific Ave.		Mile Post	Unknov	vn		
City	Cheyenne		Latitude	41.1300)44°		_
State	WY		Longitude	-104.81	4435°		_
Zip Code	82001						
Key Contacts							
Name	Phone Number	Comp	any		Role/Responsibili	ty	
Kulm,Joseph	303-991-1280	Earth	Services & Abate	ement	Inspector		
Szynskie,Robert	303-991-1280	Earth	Services & Abate	ement	Program Director		
Dickens,Edgar	307-214-3545	UPRF	ł		Local Contact		
Inspection Limita	tions						
was limited by the u	ere made to conduct a com se of hand-tools and some ble. If additional suspect ma may be required.	additiona	al suspect materi	als may be	e present in areas r	not	

					Ŭ	Stock Type		1489
	estos Results							
ACM Pr	resent ¹ Yes	Total Number of	of ACM Components. ¹	2				
Total Nu Notes	umber of Materials Containin s	ig <= 1% Asbestos.	0	-	_			
	lease note the material descr etails.	riptions herein are more	descriptive than that on the c	hain-of-custody in o	order to provid	de distinguis	shing material	1
	Asbestos Sam	ples						
Sample Date	Sample ID	Description	Location	Asbestos Result ²	ACM Category	Friable	Quantity	Modified Algorithn Number
07/15/2021	CHE-DRGW01489-1507 21-001 thru 003	Black window caulk	Exterior windows	8%, Chrysotile	Category II	No	48 LF	4
07/15/2021	CHE-DRGW01489-1507 21-004 thru 006	White fiberboard	Around furnace	60%, Chrysotile	N/A	Yes	16 sq. ft.	1
07/15/2021	CHE-DRGW01489-1507 21-007 thru 009	Breakers	Breaker box	Not Detected	N/A	N/A	0.5 sq. ft.	N/A
)7/15/2021	CHE-DRGW01489-1507 21-010 thru 012	Black tar	Roof penetrations	Not Detected	N/A	N/A	8 LF	N/A

1 "ACM Present" is defined as material with >1% asbestos, except in California, where Asbestos-Containing Construction Material (ACCM) is defined as >0.1% asbestos.

2 For samples collected in sets, only the highest result is reported. Some of the collected samples may not have been analyzed. See the attached laboratory report for additional details.

3 "Lead Present" and "Positive" is defined as paint with $\geq 0.5\%$ lead.

4 "PCBs Present" and "Positive" is defined as caulk with \geq 50 ppm PCBs.

BUILDING AME	RICA sed Paint Results				5	Stock No	GW; 01	
Lead Presen Notes	t ³ Yes To	otal Numb	per of Positive Components. ³	4				
	Paint Samples							
Sample Date	Sample ID		Description		Location	Lead Result	Co	ndition
07/15/2021	CHE-DRGW01489-150721-	-001L	Green		Interior	7 %	Goo	bd
07/15/2021	CHE-DRGW01489-150721-	-002L	"Old" Orange		Short sides of car	13 %	Fair	r
07/15/2021	CHE-DRGW01489-150721-	-003L	White		Exterior handrails	7.6 %	Fair	r
07/15/2021	CHE-DRGW01489-150721-	-004L	"New" Orange		Long side of car	< 0.00500 %	6 Goo	bd
07/15/2021	CHE-DRGW01489-150721-	-005L	Black		Underside	6.6 %	Poc	or
PCBs Preser Notes	Prinated Biphenyls Results nt ⁴ No To PCBs Samples	otal Numb	per of Positive Components. ⁴	0				
Sample						P	Bs	
Date	Sample ID		Description	Loca	tion		sult	Quant
15/2021	CHE-DRGW01489-150721-00 1P	Black w	indow caulk	Exte	rior windows	Not Dete	cted	48 LF

	Rolling Stock Asbestos Inspection Report	Report Date	08/10/2021	
	Rolling	g Stock Type	Caboose	
	Rolli	ing Stock No	D&RGW 01489	
Mold Results				
Suspect Mold Present	No			
Notes				

1 "ACM Present" is defined as material with >1% asbestos, except in California, where Asbestos-Containing Construction Material (ACCM) is defined as >0.1% asbestos.

2 For samples collected in sets, only the highest result is reported. Some of the collected samples may not have been analyzed. See the attached laboratory report for additional details.

3 "Lead Present" and "Positive" is defined as paint with $\geq 0.5\%$ lead.

4 "PCBs Present" and "Positive" is defined as caulk with \geq 50 ppm PCBs.



Rolling Stock Asbestos Inspection Report Asset Photos Report Date 08/10/2021

BUILDING AMERICA"



Railcar ID Marker



View of railcar, looking southwest

Rolling Stock Type

Caboose

Rolling Stock No D&RGW; 01489



View of railcar, looking northeast



Car interior



Rolling Stock Asbestos Inspection Report Sample Photos Report Date 08/10/2021

BUILDING AMERICA**



CHE-DRGW01489-150721-001 thru 003, 8% Asbestos, Black window caulk



CHE-DRGW01489-150721-004 thru 006, 60% Asbestos, White fiberboard



CHE-DRGW01489-150721-007 thru 009, Asbestos Not Detected, Breakers

Rolling Stock Type

Caboose

Rolling Stock No D&RGW; 01489



CHE-DRGW01489-150721-001 thru 003, 8% Asbestos, Black window caulk



CHE-DRGW01489-150721-004 thru 006, 60% Asbestos, White fiberboard



CHE-DRGW01489-150721-007 thru 009, Asbestos Not Detected, Breakers



Rolling Stock Asbestos Inspection Report Sample Photos Report Date 08/10/2021

BUILDING AMERICA**



CHE-DRGW01489-150721-010 thru 012, Asbestos Not Detected, Black tar



CHE-DRGW01489-150721-001L, 7% Lead, Green



CHE-DRGW01489-150721-002L, 13% Lead, "Old" Orange CHE-DRGW01489-150721-002L, 13% Lead, "Old" Orange

Rolling Stock Type Caboose

Rolling Stock No D&RGW; 01489



CHE-DRGW01489-150721-010 thru 012, Asbestos Not Detected, Black tar



CHE-DRGW01489-150721-001L, 7% Lead, Green







Rolling Stock Asbestos Inspection Report Sample Photos Report Date 08/10/2021

BUILDING AMERICA"



CHE-DRGW01489-150721-003L, 7.6% Lead, White



CHE-DRGW01489-150721-004L, <0.005% Lead, "New" Orange



CHE-DRGW01489-150721-005L, 6.6% Lead, Black

Rolling Stock Type

Caboose

Rolling Stock No D&RGW; 01489



CHE-DRGW01489-150721-003L, 7.6% Lead, White



CHE-DRGW01489-150721-004L, <0.005% Lead, "New" Orange



CHE-DRGW01489-150721-005L, 6.6% Lead, Black



Rolling Stock Asbestos Inspection Report Sample Photos Report Date 08/10/2021

BUILDING AMERICA"



CHE-DRGW01489-150721-001P, PCB Not Detected, Black window caulk

Caboose

Rolling Stock Type

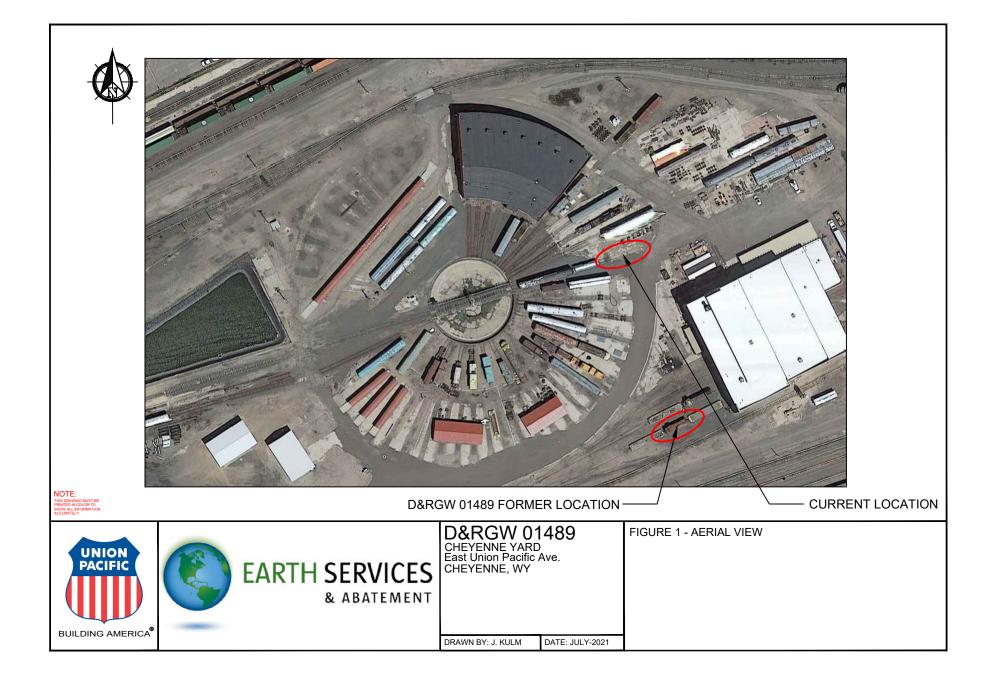
Rolling Stock No D&RGW; 01489

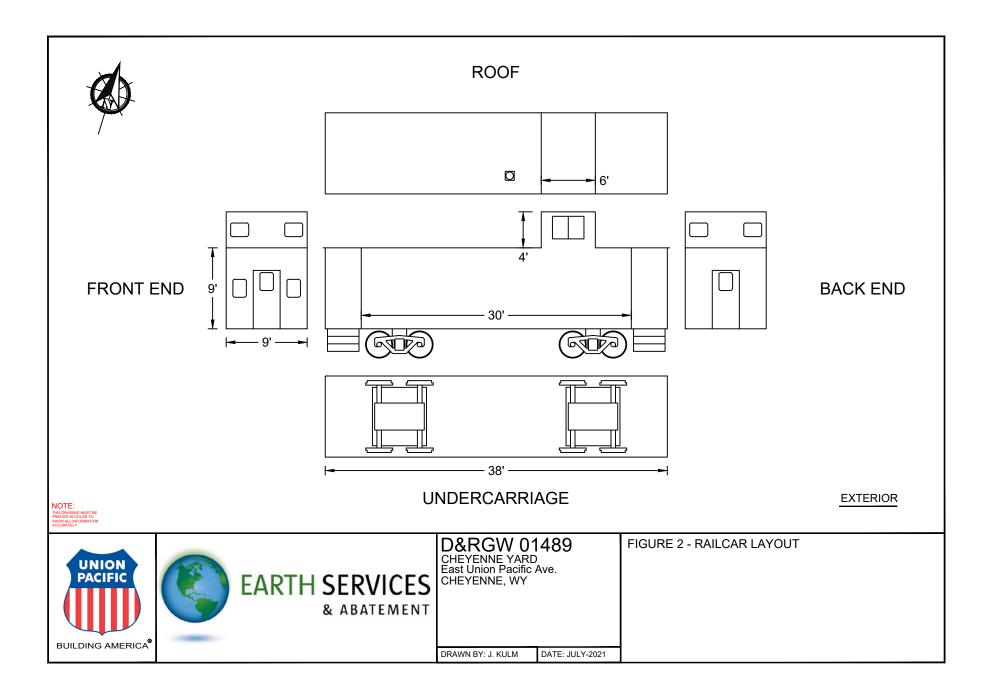


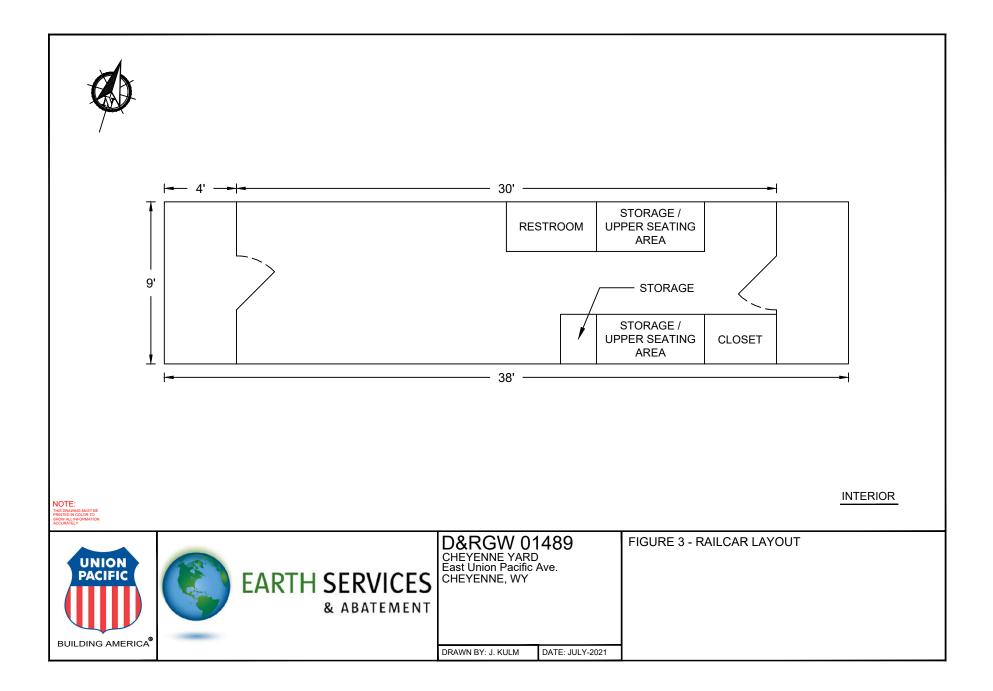
CHE-DRGW01489-150721-001P, PCB Not Detected, Black window caulk

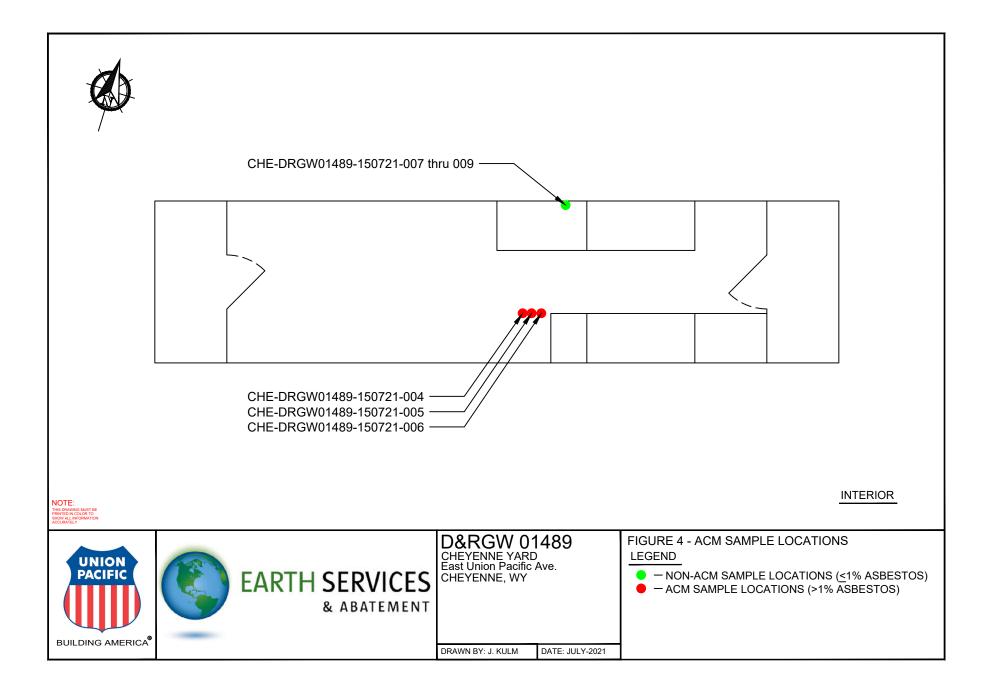
Appendix 1 - Figures

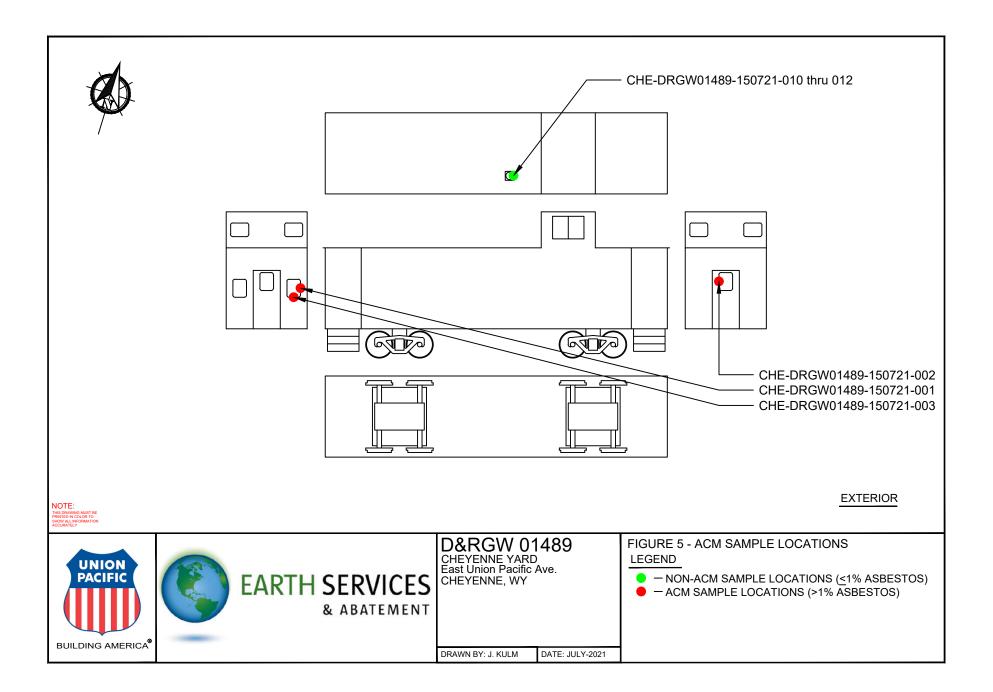
Report Date08/10/2021Rolling Stock TypeCabooseRolling Stock NoD&RGW; 01489

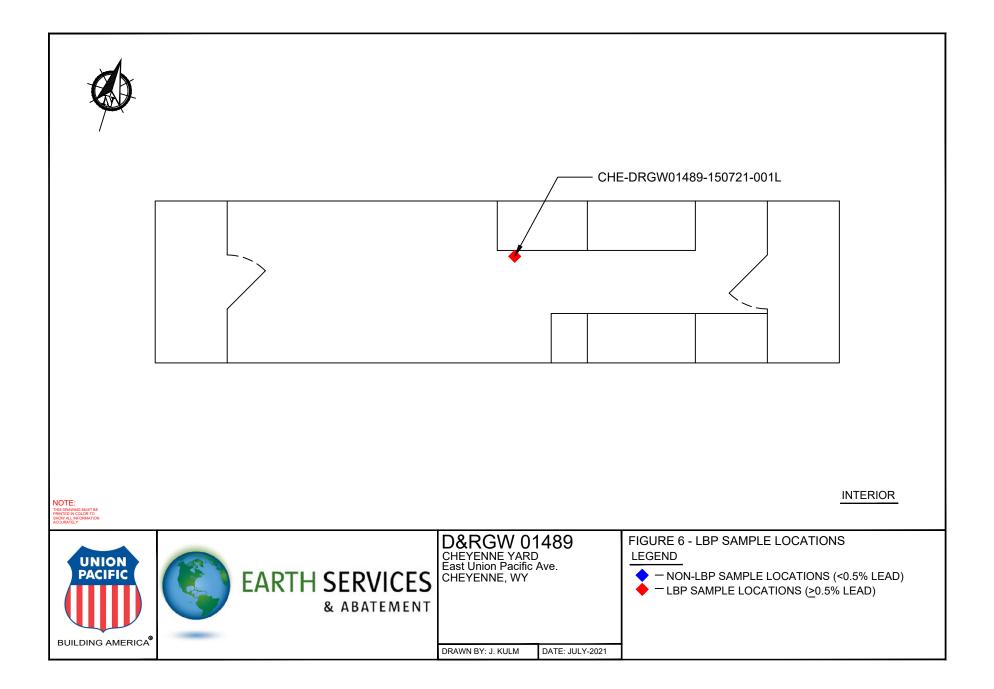


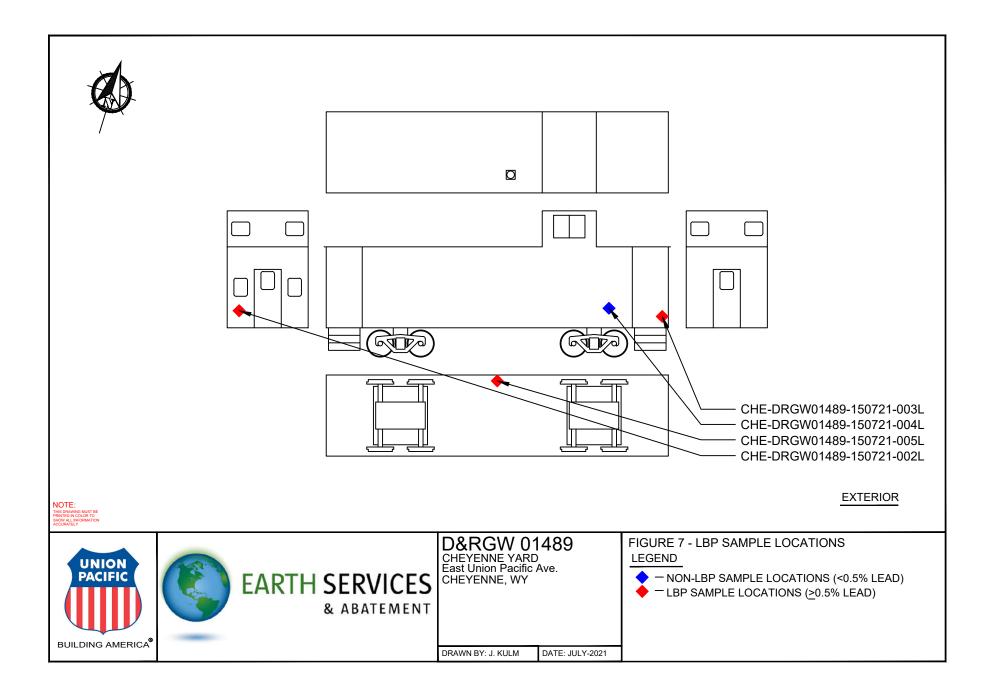


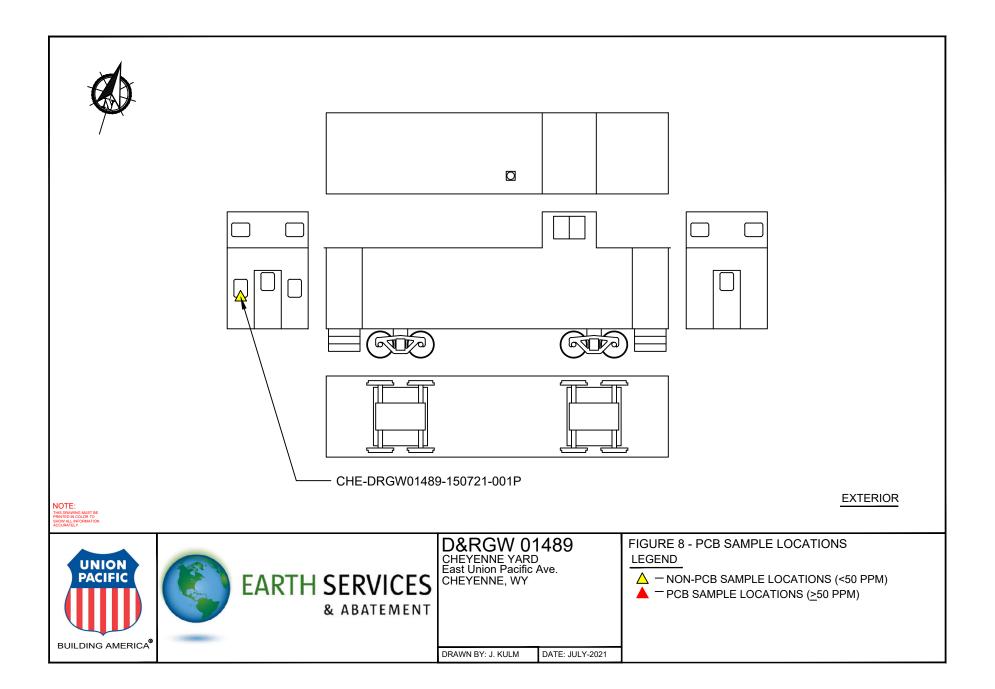


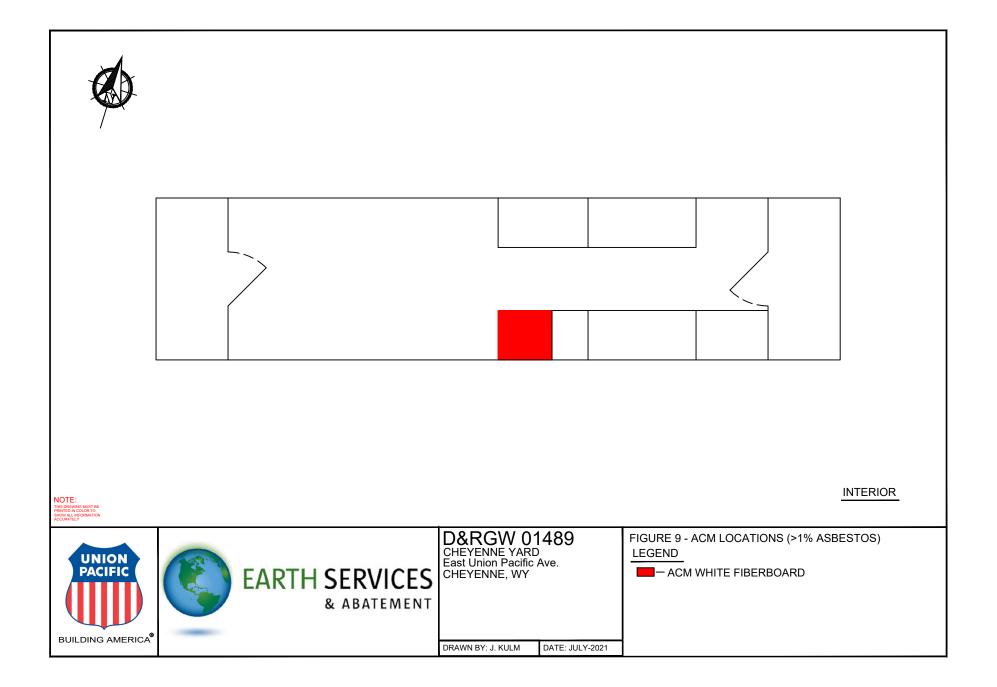


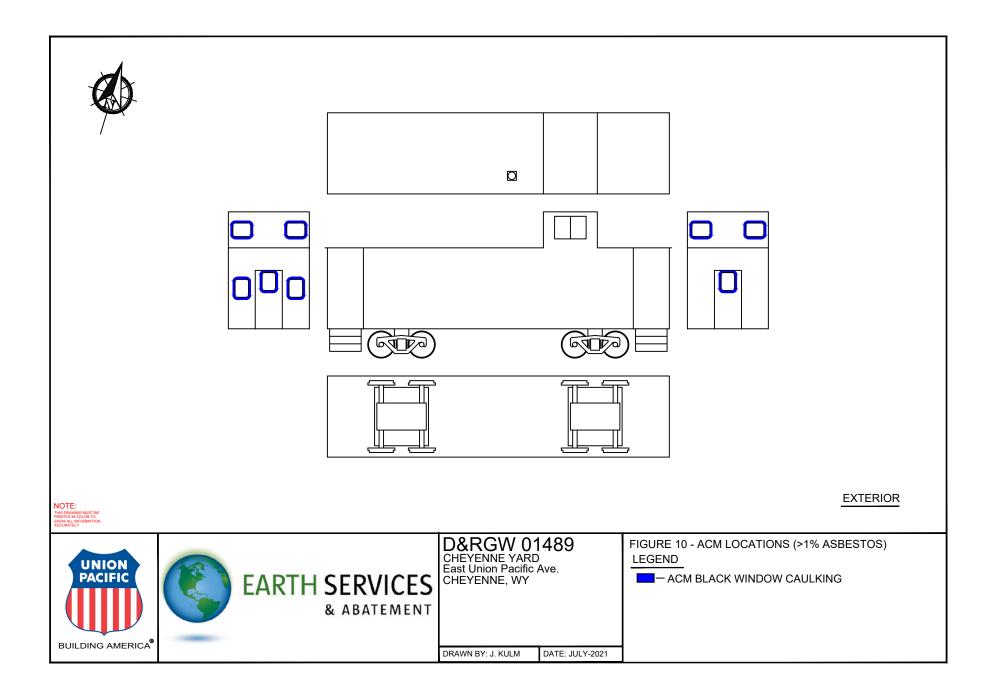












Appendix 2 - Lab Reports and Chain of Custody Receipts

Report Date	08/10/2021
Rolling Stock Type	Caboose
Rolling Stock No	D&RGW 01489

Eurofins J3 Resources, Inc.

3113 Red Bluff Road, Pasadena, TX 77503 Phone: (713) 290-0223 - Fax: (713) 290-0248 *J3Resources.com*





Bulk Asbestos Fiber Analysis by Polarized Light Microscopy (PLM) Appx E Sub E 40 CFR 763 / EPA 600/R-93/116

Joseph Kulm Earth Services & Abatement, Inc. 6700 E. 50th Avenue Commerce City CO 80022
 Order #:
 JH21129251

 Project #:
 215WY001

 Date Received:
 20-Jul-2021

 Date Analyzed:
 22-Jul-2021

 Date Reported:
 22-Jul-2021

D&RGW 01489 WY Rollingstock Inspections

Sample ID #	Sample Description	Asbestos Constituents	5	Non-Asbestos Constituents	
CHE- DRGW01489- 150721-001	Window Caulk, Black, Homogeneous	Chrysotile	8%	Non-Fibrous Material	92%
CHE- DRGW01489- 150721-002	Window Caulk, *Not analyzed per client request				
CHE- DRGW01489- 150721-003	Window Caulk, *Not analyzed per client request				
CHE- DRGW01489- 150721-004	Fiberboard, Gray, Homogeneous	Chrysotile	60%	Non-Fibrous Material	40%
CHE- DRGW01489- 150721-005	Fiberboard, *Not analyzed per client request				
CHE- DRGW01489- 150721-006	Fiberboard, *Not analyzed per client request				
CHE- DRGW01489- 150721-007	Bakelite, Black, Homogeneous	None Detected		Fibrous Glass Non-Fibrous Material	10% 90%
CHE- DRGW01489- 150721-008	Bakelite, Black, Homogeneous	None Detected		Fibrous Glass Non-Fibrous Material	10% 90%
CHE- DRGW01489- 150721-009	Bakelite, Black, Homogeneous	None Detected		Fibrous Glass Non-Fibrous Material	10% 90%

Scott Ward, Ph.D. Lab Director

Anh PhungAnalystScott Ward, Ph.D.Lab DirectorThese results apply to the sample(s) as received. This report is for the exclusive use of the addressed client and shall not be reproduced except in full, without written approval
by Eurofins J3 Resources, Inc. (EJ3). Samples are analyzed according to the methods listed above and are subject to the inherent limitations of PLM and interference of
matrix components. Reporting limit for the above method is a function of the quantity of sample analyzed, matrix interference, sample preparation, fiber size, and distribution.
Asbestos may be detected in concentrations of <1% by area if sufficient material is analyzed. EJ3 recommends TEM confirmation of soils, vermiculite and non-friable
organically bound materials (NOB) reported as None Detected or < 1% Asbestos by PLM. All samples received in good condition unless otherwise noted. This report shall
not be used to claim product approval, certification, or endorsement by NVLAP, NIST, or any agency of the federal government.

Eurofins J3 Resources, Inc.

3113 Red Bluff Road, Pasadena, TX 77503 Phone: (713) 290-0223 - Fax: (713) 290-0248 *J3Resources.com*





Bulk Asbestos Fiber Analysis by Polarized Light Microscopy (PLM) Appx E Sub E 40 CFR 763 / EPA 600/R-93/116

Joseph Kulm Earth Services & Abatement, Inc. 6700 E. 50th Avenue Commerce City CO 80022
 Order #:
 JH21129251

 Project #:
 215WY001

 Date Received:
 20-Jul-2021

 Date Analyzed:
 22-Jul-2021

 Date Reported:
 22-Jul-2021

D&RGW 01489 WY Rollingstock Inspections

Sample ID #	Sample Description	Asbestos Constituents	Non-Asbestos Constituents	
CHE- DRGW01489- 150721-010	Roof Penetration Tar, Black, Homogeneous	None Detected	Synthetic Fiber Non-Fibrous Material	5% 95%
CHE- DRGW01489- 150721-011	Roof Penetration Tar, Black, Homogeneous	None Detected	Synthetic Fiber Non-Fibrous Material	5% 95%
CHE- DRGW01489- 150721-012	Roof Penetration Tar, Black, Homogeneous	None Detected	Synthetic Fiber Non-Fibrous Material	5% 95%

Scott Ward, Ph.D. Lab Director

Anh Phung

Analyst

These results apply to the sample(s) as received. This report is for the exclusive use of the addressed client and shall not be reproduced except in full, without written approval by Eurofins J3 Resources, Inc. (EJ3). Samples are analyzed according to the methods listed above and are subject to the inherent limitations of PLM and interference of matrix components. Reporting limit for the above method is a function of the quantity of sample analyzed, matrix interference, sample preparation, fiber size, and distribution. Asbestos may be detected in concentrations of <1% by area if sufficient material is analyzed. EJ3 recommends TEM confirmation of soils, verniculite and non-friable organically bound materials (NOB) reported as None Detected or < 1% Asbestos by PLM. All samples received in good condition unless otherwise noted. This report shall not be used to claim product approval, certification, or endorsement by NVLAP, NIST, or any agency of the federal government.

Revision #v7/MF Revision Date: 3/09/2020

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J3 Resources

Open La	ab Fee		J3	order	(Jap) is	on(s)]		1 3,	5 Resource	
Submitter Name:	Joseph Kulm				Bill to:	Same					
Company:	Earth Servic	es & A	batement, llc		Address	:					
Address:	6700 E 50th	Ave									
				_	City/Stat	e:		Zip	:		
City/State: Cor	nmerce City ,	со	Zip: ⁸⁰⁰²	2	PO #: 2	15WY001					
					informat	ion					
Project Name: WY I	Rollingstock In	spectio	ons		Proje	ct Manager: Ar	manda Woz	zab			
Project #: 215WY0	01 - D&RGW (01489			Telep	hone – Office/	Cell 402-57	78-685	8		
Reports - Email Ado	lress: amanda	wozat	@esasite.com,	josepł	n.kulm@es	asite.com, robe	ert.szynskie	e@esa	site.com		
Invoice - Email Add	ress: same				Noti	fication By: E	Email: 🔳	Vert	bal: 🛛		
Special Instructions	400 point-co	unt san	nples with detec	ctions u	ip to 5% as	bestos with GF	R, as neede	ed			
			Turnaround	Times	s — Pleas	e Select One					
Emergency*	0 1	Day		2 Day		3 Day	/ 🗹		5 Day		
			entre energia. L'her annual an	ASB	ESTOS			n dan National			
PLM - Bulk	PCM -	Air	TEM - Air	TE	V - Bulk	TEM - Wate	r TEM -	Dust	TEM/ Soil/Vermi		
PLM - Buik PCM EPA 600/R-93/116 0 NIOSH X Visual Estimation (<1%)		7201 2	○ AHERA ○ NIOSH 7402 ○ ASTM D6281 ○ ISO 10312 ○ ISO 13794	Redu O Matr Redu O Qual	uction (+/-) itative (+/-) p Mount	O EPA 100.2 Drinking Wate O >10 µm fibe ≥0.5 µm fibe EPA 100.2 Effluent / WW Received on ice: Yes ○ No Temp:	rs ASTM Wipe 600/J-1 Carpet O Bulk D	ac D6480 93/167 - EPA ust	 ○ ASTM 7521-TEM (+/-) ○ ASTM 7521-TEM (<19) ○ CARB 435-Modified ○ Soil – PLM Only (+/-) ○ Vermiculite - TEM (+/-) ○ Vermiculite-Cincinnati ○ Erionite ID 		
		et in e	METALS				SI	LICA	/PARTIC	JLATES	
Flame A	A	Gra	aphite Furnace / LEAD	4A -		ICP	X-R	ay Dif	fraction / Gr	avimetric	
O Lead in Paint - SW84 O Lead in Air - NIOSH 7 O Lead in Wipes - SW84 O Lead in Soil - SW846 O TCLP - SW846-1311/	082 16 7420/3050B 7420/3050B	⊖ Was ⊖ Soil/	king Water – EPA 2 tewater – SW846-7 Sludge – SW846-7 NIOSH 7105	7421	O Wipe/Soil O Effluent –	in Air – NIOSH 73 – SW846-6010B SW846-6010B Fume – NIOSH 730		 RespirableCrystallineSilica NIOSH 7500 / OSHA 142 NIOSH 0500 – Total Particulates NIOSH 0600 – Respirable Particulates 			
Total Number o	f Samples \$	Subm	itted: 12		Positive	e Stop: 🛛 🗉	YES		NO		
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* Emergency TAT requires prior lab notification. All samples analyzed outside normal business hours are charged at Emergency rate. **TAT's are in Business Days rather than Hours (i.e.1 Day TAT = End of Next Business Day)

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Eurofins J3 Resources, Inc. + 3113 Red Bluff Road + Pasadena, Texas 77503 + tel: 713-290-0223 + fax: 713-290-0248

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Project Name WY Rollingstock Inspections

Project Number 215WY001 - D&

SAMPLE IDENTIFICATION

Page ____ of ____

J3 Resources

SAMPLE NUMBER	SAMPLE LOCATION / MATERIAL	VOLUME/CONDITION
CHE-DRGW01489-150721-001	Caulking	
CHE-DRGW01489-150721-002	Windows	
CHE-DRGW01489-50721-003		
CHE-DRGW01489-150721-004	White fiber board	
CHE-DRGW01489-150721-005	Int. around furnace	
CHE-DRGW01489-150721-006		
CHE-DRGW01489-150721-007	Black bakelite	
CHE-DRGW01489-150721-008	Int. electrical box	
CHE-DRGW01489-150721-009		
CHE-DRGW01489-150721-010	Black tar	
CHE-DRGW01489-150721-011	Ext. roof penetrations	
CHE-DRGW01489-150721-012		
·		

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Eurofins J3 Resources, Inc.

3113 Red Bluff Road Pasadena, Texas 77503 Phone: (713) 290-0223 – Fax: (832) 831-5669 *j3resources.com*



J3 Resources

<u>Lead in Paint Performed by</u> <u>Flame AA – USEPA SW846 7420/3050B (Mod.)</u>

Amanda Wozab Earth Services & Abatement, Inc. 6700 E. 50th Avenue Commerce City, CO 80022
 Order #:
 JP211028589

 Project #:
 215WY001

 Receipt Date:
 21-Jul-2021

 Analysis Date:
 22-Jul-2021

 Report Date:
 23-Jul-2021

WY Rollingstock Inspections-D&RGW 01489

SAMPLE ID	PAINT COLOR	LEAD CONCENTRATION (mg/kg)	LEAD CONCENTRATION (%)
CHE-DRGW01489-150721-001L	Green	70000	7%
CHE-DRGW01489-150721-002L	Orange	130000	13%
CHE-DRGW01489-150721-003L	White	76000	7.6%
CHE-DRGW01489-150721-004L	Orange	< 50	< 0.005%
CHE-DRGW01489-150721-005L	Black	66000	6.6%

Reporting Limit = 50.0 mg/kg N/A = Not Applicable INS = Insufficient Sample Weight NS = Not Submitted

Analyst: Shervin Aghaabbasi

Scott Ward, Ph.D. Lab Director

This report relates only to the samples submitted. The analysis has been conducted according to the method(s) listed above. Blank corrections are not applied to data unless requested by the customer. This report is for the exclusive use of the addressed customer and shall not be reproduced except in full without written approval by Eurofins J3 Resources, Inc. (EJ3). EJ3 is an EPA NLLAP recognized lab by the AIHA-LAP, LLC ELLAP (Lab ID: 157714). Unless otherwise noted, all quality control samples performed within specifications established by the laboratory. The estimated accuracy is solely based on recovery data from internal laboratory control samples at the 95% confidence interval of the level of concern, derived from a 287 mg/kg lead in paint matrix reference material. The estimated accuracy does not account for uncertainty associated with the sampling process. Accuracy = +/-9%

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🛟 eurofins

J3 Resources

Open Lab Fee

						i · · · · · · · · · · · · · · · · · · ·						
Submitter Name:	Jos	eph Kulm				Bill to:	Same					
Company:	Ea	rth Service	s & A	batement, llc		Address:					-	
Address:	670	0 E 50th A	ve									
						City/State	e:		Zip	-		
City/State: Cor	nmer	rce City,C	:0	Zip: ⁸⁰	022	1 -	15WY001		~			
City/State.						nformat						
Project Name: WY I	Rollin	nastock Ins	nectio				ct Manager: /	Amanda	Wozab	<u></u>		
Project #: 215WY0							hone – Office					
Reports - Email Add				- Mesasite co	m iosonl	· · · · · ·						
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		Same						Eman.				
Special Instructions	:										, .	
				Turnaroun	d Times	s — Pleas	e Select On	e				
Emergency*		1	Day		2 Day	/ D_	3 Da	iy 🗹		5 Da	у 🗆	
	· · · · ·				ASB	ESTOS						
PLM - Bulk PCM - Air TEM - Air				r TEI	M - Bulk	TEM - Wat	er T	EM - Dust		EM/PLM rmiculite/Ore		
EPA 600/R-93/116 NIOSH O Visual Estimation (<1%)		 NIOSH 7. ASTM D7. ISO 8672. OSHA ID 	7201 O NIOSH 7402 C ASTM D6281 O -160 O ISO 10312 O ISO 13794 O			vimetric uction (<1%) rix uction (+/-) litative (+/-) op Mount ration	C EPA 100.2 Drinking Wa o >10 µm fik o ≥0.5 µm fi EPA 100.2 Effluent / WA Received on ic	ter f bers d N 0 0 N 0 1	ASTM D5755 Microvac ASTM D6480 Wipe 500/J-93/167 Carpet - EPA Bulk Dust Qualitative	7521-TEM (+/-) 7521-TEM (<1%) 435-Modified PLM Only (+/-) ulite - TEM (+/-) ulite-Cincinnati e ID		
				METALS					SILICA	/PARTI	CULATES	
Flame	AA		Gr	raphite Furnac LEAD	ce AA -		ICP		X-Ray Di	fraction /	Gravimetric	
Flame AA L \overline Lead in Paint - SW846 7420/3050B \overline Lead in Air - NIOSH 7082 \overline Vastewater \overline Vastewat			nking Water – EF stewater – SW84 I/Sludge – SW84	46-7421	O Wipe/Soi O Effluent -	s in Air - NIOSH I - SW846-6010 - SW846-6010B Fume - NIOSH 7	В	NIOSH 75	RespirableCrystallineSilica NIOSH 7500 / OSHA 142 NIOSH 0500 – Total Particulates NIOSH 0600 – Respirable Particulates			
Total Number o	of Sa	amples S	Subm	nitted: 5	. —	Positive	e Stop:		S 🗉	NO		
				21	Sig	natures		e de la composición d La composición de la c				
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J3 Resources

Project Name WY Rollingstock Inspections

Project Number 215WY001 - D&

SAMPLE IDENTIFICATION

Page ____ of ____

SAMPLE NUMBER	SAMPLE LOCATION / MATERIAL	VOLUME/CONDITION
CHE-DRGW01489-150721-001L	Green	
	Int.	
CHE-DRGW01489-150721-002L	Orange	
	Ext.	
CHE-DRGW01489-150721-003L	White	
	Handrails	
CHE-DRGW01489-150721-004L	Orange	-
	"New" exterior (south-side)	
CHE-DRGW01489-150721-005L	Black	
	Undercarriage	
-		
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	· · · · · · · · · · · · · · · · · · ·	
	· ·	
- · · · ·		
Comments/Special Instructions:		

Eurofins J3 Resources, Inc. • 6110 West 34th Street • Houston, Texas 77092 • tel: 713-290-0221 • fax: 713-290-0248 Eurofins J3 Resources, Inc. • 3113 Red Bluff Road • Pasadena, Texas 77503 • tel: 713-290-0223 • fax: 713-290-0248 LIMS Version: 7.020

Monday, August 09, 2021

Amanda Wozab Earth Services & Abatement 6700 E. 50th Ave. Commerce City, CO 80022

Re: ALS Workorder: 2107405 Project Name: Cheyenne RS Project Number: 215WY001

Dear Ms. Wozab:

One solid sample was received from Earth Services & Abatement, on 7/21/2021. The sample was scheduled for the following analysis:

PCBs

The results for these analyses are contained in the enclosed reports.

The data contained in the following report have been reviewed and approved by the personnel listed below. In addition, ALS certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental.

Thank you for your confidence in ALS Environmental. Should you have any questions, please call.

Sincerely,

Μ.

ALS Environmental Katie M. OBrien Project Manager



2107405

PCB:

The sample was analyzed using GC/ECD (electron capture detectors) according to the current revision of SOP 409 based on SW-846 Method 8082.

All acceptance criteria were met.

Sample Number(s) Cross-Reference Table

OrderNum: 2107405 Client Name: Earth Services & Abatement Client Project Name: Cheyenne RS Client Project Number: 215WY001 Client PO Number:

Client Sample Number	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
CHE-DRGW01489-150721-001P;	2107405-1		SOLID	15-Jul-21	



ALS Laboratory Group

	225 Commerce Drive, Fort Collins, Colorado 80524 TF: (800) 443-1511 PH: (970) 490-1511 FX: (970) 490-1522												Ferr	n 202r8		WORK	ORDER #					
LS)	I	SAM	PLER	Joseph Kulm						DAT	E				-		PAGE		1	of	-	1
PROJECT NAME	Cheyenne RS	sr	SITE ID D&RGW 01489 TURNAROUND					5 Day		-		DISPOSAL	By L	ab o		turn t	to					
PROJECT No.	215WY001	EDD FOR	TAMS						П	Т		П				Т	Т					Г
		PURCHASE OF	RDER	_		-		1														
COMPANY NAME	Earth Services & Abatement	BILL TO COMP	PANY	Earth Services & At	atement			1														
SEND REPORT TO		INVOICE ATT	סז א					1														
ADDRESS	6700 E. 50th Ave.	ADDF	ADORESS 6					1														Ĺ
CITY / STATE / ZIP	Commerce City, CO 80022	CITY / STATE	/ZIP	Commerce City, CO	80022			1														
PHONE	303-991-1280	PH	IONE	303-991-1280			_ 1	1														
FAX	303-991-1282		FAX	303-991-1282				8082														
E-MAIL	Amanda.Wozab@esasite.com, Joseph.Kulm@ESAsite.com	E-	MAIL		_			PCB by 80														
Lab ID	Field ID	Matrix	Sam Da		# Bottles	Pres.	QC															
	CHE-DRGW01489-150721-001P; Window Caulk	NS	07.1	5.21 1400				×														
		=																				
		=																				
										Т			Γ	Π						\square	\neg	
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					<u> </u>		_		+	+	+		+	\vdash	+		╉╼╾┨	+	_	\square	-	
	ST MST PST Matrix O≖oil S≖soil NS≖non-soilsoi									-											1	

Chain-of-Custody

For metals or anions, please detail analytes below.				\cap	SIGNATURE	PRINTED NAME	DATE	TIME
Comments:		QC PACKAGE (check below)	RELINQUISHED BY	Jak	'KU	Joseph Kulm	7/19	
		LEVEL II (Standard QC)	RECEIVED BY	$\Gamma \Pi$	Æ	Josh Ecken	1/2/21	0445
		LEVEL III (Std QC + forms)	RELINQUISHED BY					- / 14
		LEVEL IV (Std QC + forms + raw data)	RECEIVED BY			-		
			RELINQUISHED BY					
Preservative Key: 1-HCI 2-HNO3 3-H2SO4 4-NaOH	-NaHSO4 7-Other 8-4 degr	ees C 9-5035	RECEIVED BY					



ALS Environmental - Fort Collins CONDITION OF SAMPLE UPON RECEIPT FORM

L 3)									
	Client:	EARTH SERVICES & ABA	ATEMENT	Worko	order No:	2	107405		
Project	Manager:	КМО		Initials:	JPE	Date:	07/2	21/2021	
							N/A	YES	NO
Are airbills	s / shippin	g documents present and/	or removabl	le?					
Tracking	a number:	2815 9831 3879						Х	
	-	n shipping containers intac	:t?				Х		
Are custoc	ly seals or	n sample containers intact?	?				Х		
s there a (COC (chair	n-of-custody) present?						Х	
	-	nent with samples received requested analyses, etc.)	d? (IDs, dates	s, times, #	of samples	s, # of		х	
Are short-	hold samp	oles present?							Х
Are all san	nples with	in holding times for the re	quested ana	lyses?				Х	
Nere all sa	ample cor	ntainers received intact? (r	not broken o	r leaking))			Х	
s there su	ifficient sa	mple for the requested an	alyses?					Х	
Are sample Guidelines)	es in prop	er containers for requeste	d analyses? ((form 250, .	Sample Hand	dling		х	
Are all aqu	leous sam	ples preserved correctly, if	f required? (excludinç	y volatiles)		Х		
		iiring no headspace (VOC, (iameter? (i.e. size of green		EE, rador	n) free of b	ubbles	х		
Nere the s	samples sl	hipped on ice?							Х
Nere coole	r temperat	ures measured at 0.1-6.0°C?	IR gun used*:	#5			RAD ONLY		Х
	Cooler #:				I				
Tempera	ature (°C):	AMB							
f custody sea		0							
	R/hr reading:	11							
ackground μR	-	11							
Vere external	µR/hr readin	gs ≤ two times background and withi	in DOT acceptanc	ce criteria?	YES / NO / N	A (If no, se	ee Form 008	8.)	
ease provid	le details he	ere for NO responses to boxes	above - for 2 t	hru 5 & 7	thru 12, not	ify PM &	continue	w/ login.	
		pH checked? YES / NA		ent bottle	e ID's vs ALS	iab ID's c			/: JE
			act:						
ject Manag	jer Signatu	re / Date	2						
plicable, wa		contacted? YES / NO / NA Conta			: U 3 VS AL3		Date/1	Γi	

SAMPLE SUMMARY REPORT

Client:	Earth Services & Abatement
Project:	215WY001 Cheyenne RS
Sample ID:	CHE-DRGW01489-150721-001P; Window Caulk
Legal Location:	
Collection Date:	7/15/2021

Date: 09-Aug-21 **Work Order:** 2107405

Lab ID: 2107405-1

Matrix: SOLID

Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBs		SW80	82	Prep	o Date: 7/30/2021	PrepBy: CPC
AROCLOR-1016	ND		2.9	MG/KG	6	8/6/2021 13:54
AROCLOR-1221	ND		5.9	MG/KG	6	8/6/2021 13:54
AROCLOR-1232	ND		2.9	MG/KG	6	8/6/2021 13:54
AROCLOR-1242	ND		2.9	MG/KG	6	8/6/2021 13:54
AROCLOR-1248	ND		2.9	MG/KG	6	8/6/2021 13:54
AROCLOR-1254	ND		2.9	MG/KG	6	8/6/2021 13:54
AROCLOR-1260	ND		2.9	MG/KG	6	8/6/2021 13:54
Surr: TETRACHLORO-M-XYLENE	78		69-129	%REC	6	8/6/2021 13:54
Surr: DECACHLOROBIPHENYL	105		55-135	%REC	6	8/6/2021 13:54

SAMPLE SUMMARY REPORT

Client:	Earth Services & Abatement				Date: 09-Aug-21				
Project:	215WY001 Cheyenn	e RS			Work Order: 2107405				
Sample ID:	CHE-DRGW01489-1	50721-001P; Windo	ow Caulk			Lab ID: 2107	405-1		
Legal Location:						Matrix: SOL	ID		
Collection Date:	7/15/2021				Perc	ent Moisture:			
Analyses		Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed		
Explanation of Q	Jualifiers								
Radiochemistry:									
- "Report Limit" is the	MDC		Ν	13 - The reques	ted MDC was r	not met, but the reported			
U or ND - Result is le	ss than the sample specific N	DC.		, ,		reported MDC.			
Y1 - Chemical Yield is	s in control at 100-110%. Qua	antitative yield is assumed.		- LCS Recover					
Y2 - Chemical Yield o	outside default limits.			I - LCS Recover					
W - DER is greater th	an Warning Limit of 1.42					within control limits.			
* - Aliquot Basis is 'As	Received' while the Report E	Basis is 'Dry Weight'.		•		de control limits			
	ry Weight' while the Report Ba					te results less than 5 times	MDC		
	ffers by more than 15% of LC	S density.	В	8 - Analyte conc	entration greate	er than MDC.			

MDC.

B3 - Analyte concentration greater than MDC but less than Requested

D - DER is greater than Control Limit M - Requested MDC not met.

Inorganics:

B - Result is less than the requested reporting limit but greater than the instrument method detection limit (MDL).

U or ND - Indicates that the compound was analyzed for but not detected.

E - The reported value is estimated because of the presence of interference. An explanatory note may be included in the narrative.

M - Duplicate injection precision was not met.

N - Spiked sample recovery not within control limits. A post spike is analyzed for all ICP analyses when the matrix spike and or spike duplicate fail and the native sample concentration is less than four times the spike added concentration.

Z - Spiked recovery not within control limits. An explanatory note may be included in the narrative.

* - Duplicate analysis (relative percent difference) not within control limits.

S - SAR value is estimated as one or more analytes used in the calculation were not detected above the detection limit.

Organics:

U or ND - Indicates that the compound was analyzed for but not detected.

B - Analyte is detected in the associated method blank as well as in the sample. It indicates probable blank contamination and warns the data user.

- E Analyte concentration exceeds the upper level of the calibration range.
- J Estimated value. The result is less than the reporting limit but greater than the instrument method detection limit (MDL).
- A A tentatively identified compound is a suspected aldol-condensation product.
- X The analyte was diluted below an accurate quantitation level.
- * The spike recovery is equal to or outside the control criteria used.
- + The relative percent difference (RPD) equals or exceeds the control criteria.
- G A pattern resembling gasoline was detected in this sample.
- D A pattern resembling diesel was detected in this sample.
- M A pattern resembling motor oil was detected in this sample.
- C A pattern resembling crude oil was detected in this sample.
- 4 A pattern resembling JP-4 was detected in this sample.
- 5 A pattern resembling JP-5 was detected in this sample.
- H Indicates that the fuel pattern was in the heavier end of the retention time window for the analyte of interest.
- L Indicates that the fuel pattern was in the lighter end of the retention time window for the analyte of interest.
- Z This flag indicates that a significant fraction of the reported result did not resemble the patterns of any of the following petroleum hydrocarbon products: gasoline
- JP-8
- diesel
- mineral spirits
- motor oil
- Stoddard solvent
- bunker C

Client:	Earth Services & Abatement
Work Order:	2107405
Project:	215WY001 Cheyenne RS

QC BATCH REPORT

Batch ID: EX210730-3-1	Instrument ID: Pes	st-1		Method: S	W8082						
LCS Sample ID: EX21073	0-3			L	Inits: MG/K	G	Analy	sis Date: 8	/6/2021	14:13	
Client ID:	Run II	D: PT210806-1	1			I	Prep Date: 7/3	0/2021	DF	: 1	
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qual
AROCLOR-1016	0.133	0.0333	0.133		99	80-120				50	
AROCLOR-1260	0.137	0.0333	0.133		103	80-125				50	<u> </u>
Surr: TETRACHLORO-M-XYLENE	0.0152		0.0167		91	69-129					<u> </u>
Surr: DECACHLOROBIPHENYL	0.0187		0.0167		112	55-135					
LCSD Sample ID: EX21073	0-3			U	Inits: MG/K	G	Analy	sis Date: 8	/6/2021	14:32	
Client ID:	Run II	D: PT210806-1	1			I	Prep Date: 7/3	0/2021	DF	: 1	
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qual
AROCLOR-1016	0.125	0.0333	0.133		94	80-120		0.133	6	50	
AROCLOR-1260	0.131	0.0333	0.133		99	80-125		0.137	4	50	
Surr: TETRACHLORO-M-XYLENE	0.015		0.0167		90	69-129			1		
Surr: DECACHLOROBIPHENYL	0.0178		0.0167		107	55-135			5		
MB Sample ID: EX21073	0-3			L	Inits: MG/K	G	Analy	sis Date: 8	/6/2021	11:25	
Client ID:	Run II	D: PT210806-1	1			I	Prep Date: 7/3	0/2021	DF	: 1	
Analyte	Result	ReportLimit									Qual
AROCLOR-1016	ND	0.033									
AROCLOR-1221	ND	0.067									
AROCLOR-1232	ND	0.033									
AROCLOR-1242	ND	0.033									
AROCLOR-1248	ND	0.033									
AROCLOR-1254	ND	0.033									
AROCLOR-1260	ND	0.033									
Surr: TETRACHLORO-M-XYLENE	0.0158				95	69-129					
Surr: DECACHLOROBIPHENYL	0.0178				107	55-135					

The following samples were analyzed in this batch:

2107405-1

Appendix 3 - Modified Sawyer Algorithm

Report Date	08/10/2021
Rolling Stock Type	Caboose
Rolling Stock No	D&RGW 01489

SAWYER ALGORITHM PRIORITY

Asbestos Potential Exposure and Priority Level Algorithm

Asbestos Potential Exposure and Prior Asset Number		D&RGW 01489
Exposure Area	Exterior windows	Around furnace
Asbestos Containing Material	Black window caulk□	White fiberboard
	CHE-DRGW01489-150721-001 thru	CHE-DRGW01489-150721-004 thru
Sample Number	003 🗆	006
Size Quantity	NA 48 LF	NA 16 SF
	40 LF	2
0 =No damage, excellent condition 1 =Very minor damage, no visible debris 2 =Damage is evident, small area 3 =Damage is easily seen, some debris 4 =Damage is widespread, debris is common 5 =Most or all material is damaged, hanging, and / or found as debris throughout the area		
BUILDING AGE (BA)	1	1
1 =>30 years old 0 =15 - 30 years old -1 =<15 years old		
MATERIAL TYPE		
Pipe Covering (PC) 1 =MAG/CAL Silicate -1 =Air Cell / paper	NA	NA
Ceiling Plasters or Fireproofing (CP)	NA	NA
-1 =Cementitious (Monocoat) 0 =Standard 1 ="Cotton Candy" texture		
WATER DAMAGE (WD)	0	0
 0 =No water damage 1 =Small amount of damage can be seen; damage is localized rather than widespread 2 =Good deal of water damage; widespread 		
ROOF CHARACTERISTICS (RC)	-0.5	-0.5
-0.5 =Sloped or Hipped -0.5 =Metal or Concrete 0.5 =Flat or Built-up		
EXPOSED SURFACE AREA (ESA)	4	4
 0 =Material behind a permanent enclosure 2 =Material behind a lay-in ceiling or in open tunnel 4 =Material is exposed 		
ACCESSIBILITY (AC)	4	4
0 =Totally inaccessible 1 =Can only reach with hands, ie. pipe chase 2 =An open tunnel or above a drop ceiling 3 =Exposed overall, but can't reach, ie. >10' high 4 =Material is out in the open and <10' high		
ACTIVITY AND MOVEMENT (A/M)	2	2
 0 =No occupants enter the area 1 =Area is accessed infrequently 2 =Area is accessed frequently 		
WORK ENVIRONMENT (WE)	0.5	0.5
-0.5 =Sedentary 0.5 =Non-sedentary		
SOUND AND MECHANICAL VIBRATIONS (SMV) 0.5 =Frequent or Constant -0.5 =No recognizable vibration	0.5	0.5
AIR - PLENUM / AIR STREAM (AP)	1	1
0 =No air plenum or air flow 1 =Air plenum or air flow exists	·	
VELOCITY (if Air Plenum = 1) (VEL)	-0.25	-0.25
0.25 =Recognizable by human feeling -0.25 =Non-recognizable by human feeling		-
FLOW (if Air Plenum = 1) (FL)	NA	NA
-0.25 =Constant, steady stream 0.25 =Impact, gusty flow		
RIABILITY (F) 1 =Very hard to crumble under hand pressure 2 = Will crumble under a little hand pressure	1	3
3 =Extremely easy to crumble under light pressure		
ASBESTOS CONTENT (ASB) 0 =None <1% 1 =1% to 10% Asbestos 2 =11% to 50% Asbestos 3 =51% to 100% Asbestos	11	3
Exposure Value	14.25	128.25
·		
Rating	4	1



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Specializing in environmental services and demolition

August 17th, 2021

Union Pacific Railroad Asbestos Program c/o GHD 3807 South 148th Street Omaha, NE 68144

RE: WY, Cheyenne, Rollingstock D&RGW 01524, Requested NESHAP Inspection Earth Services & Abatement Project Number: 215WY001

To Whom It May Concern,

Please find our NESHAP report for the above-mentioned requested inspection. Earth Services & Abatement's Joseph Kulm inspected UPRR railcar D&RGW 01524 for suspect asbestos-, lead-, and PCB-containing materials. The inspection work took place on July 17th, 2021.

No previous reports were provided for review prior to inspection.

Refer to the report for a summary of this inspection, including inspection/lab results, inspection photographs, and schematics.

If you have any questions or need anything else for this project, please do not hesitate to contact us.

Conducted by,

Jospeh Kulm Inspector Earth Services & Abatement

Reviewed by,

Best Syphie

Robert Szynskie Program Director Earth Services & Abatement Robert.szynskie@esasite.com Cell – 720-206-9238

BUILDING AMERICA ^{**} Inspection Type	Reinspection	X NE	SHAP Inspection	Inspe	ction Start Date ction End Date t Date	07/17/202 07/17/202 08/10/202
Inspection Comp Company Earth S	any ervices & Abatement		License No.	16608		
Address 6700 E 50	Oth Ave		City Comm State CO	erce City	Zip 80022	
Inspector Informa First Name Joseph License Type AHE		Las C6LEMQ	t Name Kulm		nse State	
Asset Information	1					
Rolling Stock Type Rolling Stock No Yard Name Address City State Zip Code	Caboose D&RGW 01524 Cheyenne East Union Pacific Ave. Cheyenne WY 82001		Car Name Subdivision Mile Post Latitude Longitude	D&RGV Unknov Unknov 41.1295 -104.81	/n 563°	
Key Contacts						
Name	Phone Number	Comp	any		Role/Responsibili	ity
Kulm,Joseph	303-991-1280	Earth	Services & Abate	ment	Inspector	
Szynskie,Robert	303-991-1280	Earth	Services & Abate	ment	Program Director	
Dickens,Edgar	307-214-3545	UPRF	8		Local Contact	
was limited by the u	ere made to conduct a com se of hand-tools and some ble. If additional suspect ma	additiona	al suspect materia	ls may be	e present in areas r	not

		Rolling Sto	ck Asbestos Inspec	ction Rep	ort R	eport Date	08/10/2021	
					Rolling	Stock Type	Caboose	
BUILDING	AMERICA				Rollin	g Stock No	D&RGW 0	1524
Asbe	estos Results							
ACM Pr		Total Number o	f ACM Components. ¹ 4					
Total Nu Notes	umber of Materials Containin	g <= 1% Asbestos.	1		_			
	ease note the material descr etails.	iptions herein are more o	lescriptive than that on the chai	n-of-custody in a	order to provid	le distinguis	shing material	
	Asbestos Sam	ples						
Sample Date	Sample ID	Description	Location	Asbestos Result ²	ACM Category	Friable	Quantity	Modified Algorithm Number
07/17/2021	CHE-DRGW01524-1707 21-001 thru 003	Beige flooring and gray mastic	Interior floors throughout	Not Detected	N/A	N/A	270 sq. ft.	N/A
07/17/2021	CHE-DRGW01524-1707 21-004 thru 006	Gray transite boards	Interior around furnace	15%, Chrysotile	Category I	No	24 sq. ft.	3
07/17/2021	CHE-DRGW01524-1707 21-007 thru 009	Black caulk	Exterior windows	2%, Chrysotile	Category II	No	36 LF	4
07/17/2021	CHE-DRGW01524-1707 21-010 thru 012	White coating	Interior, on water tank	6.42%, Chrysotile	Category II	No	12 sq. ft.	4
07/17/2021	CHE-DRGW01524-1707 21-013 thru 015	Tan sealant	Oil fill pipe, interior	1.43%, Chrysotile	N/A	N/A	1 LF	N/A
07/17/2021	CHE-DRGW01524-1707 21-016 thru 018	Black brake pads	Exterior wheels	Not Detected	N/A	N/A	4 sq. ft.	N/A
07/17/2021	CHE-DRGW01524-1707 21-019 thru 021	White coating	Interior walls and ceilings	4.7%, Chrysotile	Category II	No	972 sq. ft.	4

1 "ACM Present" is defined as material with >1% asbestos, except in California, where Asbestos-Containing Construction Material (ACCM) is defined as >0.1% asbestos.

2 For samples collected in sets, only the highest result is reported. Some of the collected samples may not have been analyzed. See the attached laboratory report for additional details.

3 "Lead Present" and "Positive" is defined as paint with $\geq 0.5\%$ lead.

4 "PCBs Present" and "Positive" is defined as caulk with \geq 50 ppm PCBs.

BUILDING AM	V I∈RICA" ased Paint Resu	ulte			Rolling Stoc Rolling Sto		Caboose D&RGW 01	1524
Lead Prese Notes			Number of Positive Components. ³	1				
	Pai	int Samples						
Sample Date		Sample ID	Description		Location	Lea Res		ondition
07/17/2021	CHE-DRGW	V01524-170721-001L	_ Gray		Interior throughout	0.13 %	% Fai	.ir
07/17/2021	CHE-DRGV	V01524-170721-002L	_ Yellow		Exterior sides, Interior handrails	12 %	Fai	ıir
07/17/2021	CHE-DRGV	V01524-170721-003L	_ Black		Exterior undercarriage and interior stairs	0.083 %	% Po	or
07/17/2021	CHE-DRGV	V01524-170721-004L	_ White		Exterior handrails	0.25 %	% Po	or
POIYCHI PCBs Prese Notes		•	Number of Positive Components. ⁴	0				
Sample Date	Sampl	le ID	Description	Locat	tion		PCBs Result	Quanti
7/17/2021	CHE-DRGW0152 1P		ack caulk	Exter	rior windows		Not Detected	36 LF
			California, where Asbestos-Containing Constr ome of the collected samples may not have be				onal details.	

4 "PCBs Present" and "Positive" is defined as caulk with ≥50 ppm PCBs.

	Rolling Stock Asbestos Inspection Report Report Date	08/10/2021
	Rolling Stock Type	Caboose
	Rolling Stock No	D&RGW 01524
Mold Results		
Suspect Mold Present	No	
Notes		

1 "ACM Present" is defined as material with >1% asbestos, except in California, where Asbestos-Containing Construction Material (ACCM) is defined as >0.1% asbestos.

2 For samples collected in sets, only the highest result is reported. Some of the collected samples may not have been analyzed. See the attached laboratory report for additional details.

3 "Lead Present" and "Positive" is defined as paint with $\geq 0.5\%$ lead.

4 "PCBs Present" and "Positive" is defined as caulk with \geq 50 ppm PCBs.



Rolling Stock Asbestos Inspection Report Asset Photos Report Date 08/10/2021

BUILDING AMERICA



Railcar ID Marking



View of railcar, looking north

Rolling Stock Type

Caboose

Rolling Stock No D&RGW; 01524



View of railcar, looking south



Railcar interior



Rolling Stock Asbestos Inspection Report Sample Photos Report Date 08/10/2021

BUILDING AMERICA**



CHE-DRGW01524-170721-001 thru 003, Asbestos Not Detected, Beige flooring and gray mastic



CHE-DRGW01524-170721-004 thru 006, 15% Asbestos, Gray transite boards



CHE-DRGW01524-170721-007 thru 009, 2% Asbestos, Black caulk

Rolling Stock Type

Caboose

Rolling Stock No D&RGW; 01524



CHE-DRGW01524-170721-001 thru 003, Asbestos Not Detected, Beige flooring and gray mastic



CHE-DRGW01524-170721-004 thru 006, 15% Asbestos, Gray transite boards



CHE-DRGW01524-170721-007 thru 009, 2% Asbestos, Black caulk



Rolling Stock Asbestos Inspection Report Sample Photos Report Date 08/10/2021

BUILDING AMERICA**



CHE-DRGW01524-170721-010 thru 012, 6.42% Asbestos, White coating



CHE-DRGW01524-170721-013 thru 015, 1.43% Asbestos, Tan sealant



CHE-DRGW01524-170721-016 thru 018, Asbestos Not Detected, Black brake pads

Rolling Stock Type

Caboose

Rolling Stock No D&RGW; 01524



CHE-DRGW01524-170721-010 thru 012, 6.42% Asbestos, White coating



CHE-DRGW01524-170721-013 thru 015, 1.43% Asbestos, Tan sealant



CHE-DRGW01524-170721-016 thru 018, Asbestos Not Detected, Black brake pads



Rolling Stock Asbestos Inspection Report Sample Photos Report Date 08/10/2021

BUILDING AMERICA"



CHE-DRGW01524-170721-019 thru 021, 4.7% Asbestos, White coating



CHE-DRGW01524-170721-001L, 0.13% Lead, Gray



CHE-DRGW01524-170721-002L, 12% Lead, Yellow

Caboose

Rolling Stock Type

Rolling Stock No D&RGW; 01524



CHE-DRGW01524-170721-019 thru 021, 4.7% Asbestos, White coating



CHE-DRGW01524-170721-001L, 0.13% Lead, Gray



CHE-DRGW01524-170721-002L, 12% Lead, Yellow



Rolling Stock Asbestos Inspection Report Sample Photos Report Date 08/10/2021

BUILDING AMERICA**



CHE-DRGW01524-170721-003L, 0.083% Lead, Black



CHE-DRGW01524-170721-004L, 0.25% Lead, White



CHE-DRGW01524-170721-001P, PCB Not Detected, Black caulk

Rolling Stock Type

Caboose

Rolling Stock No D&RGW; 01524



CHE-DRGW01524-170721-003L, 0.083% Lead, Black



CHE-DRGW01524-170721-004L, 0.25% Lead, White

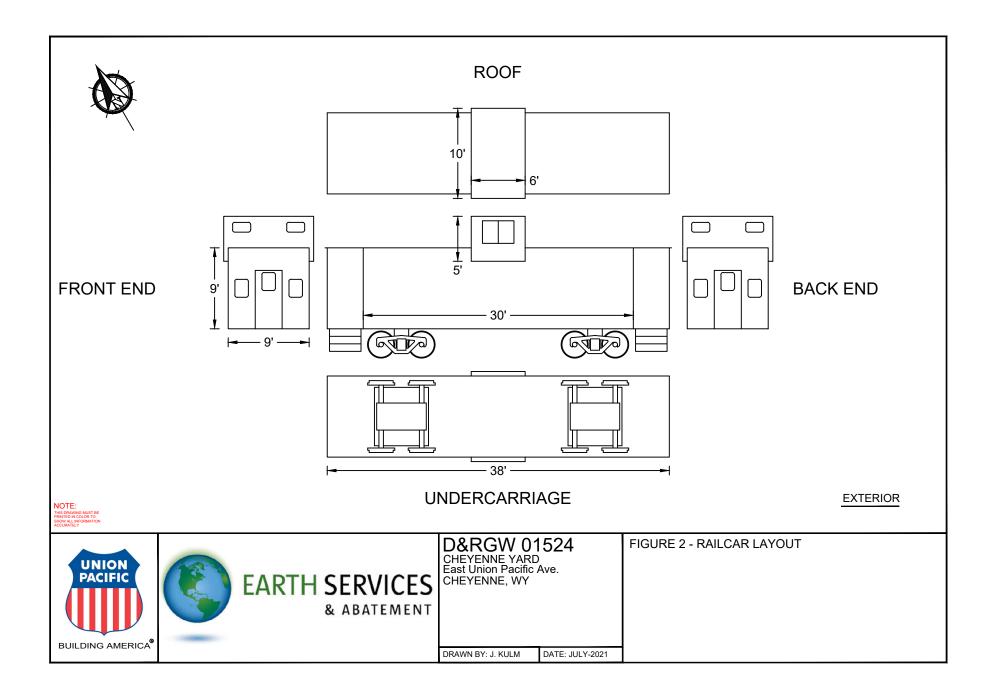


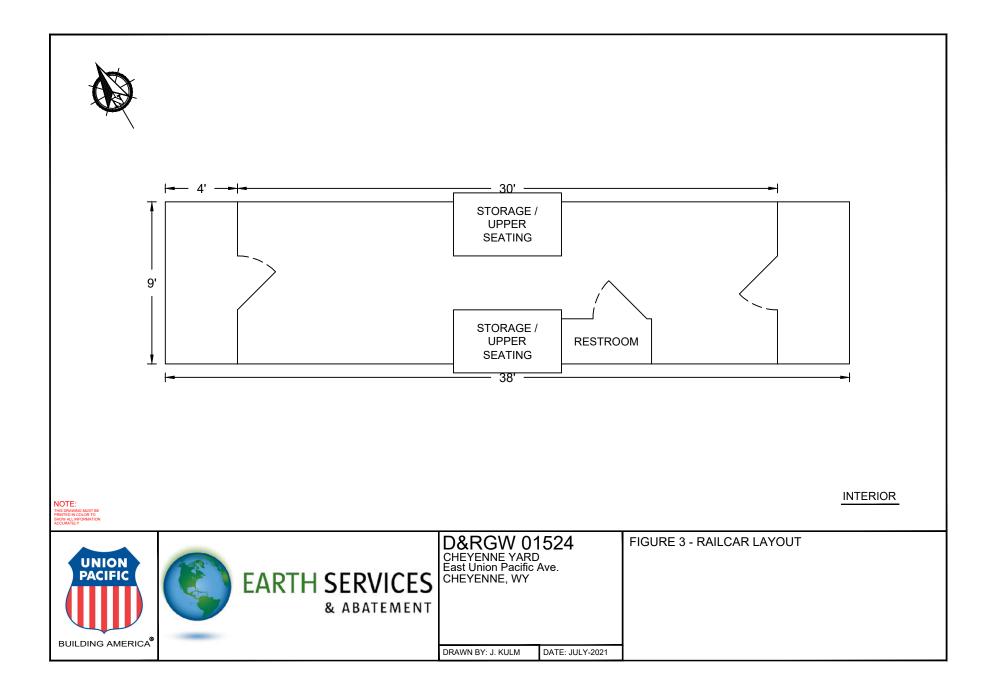
CHE-DRGW01524-170721-001P, PCB Not Detected, Black caulk

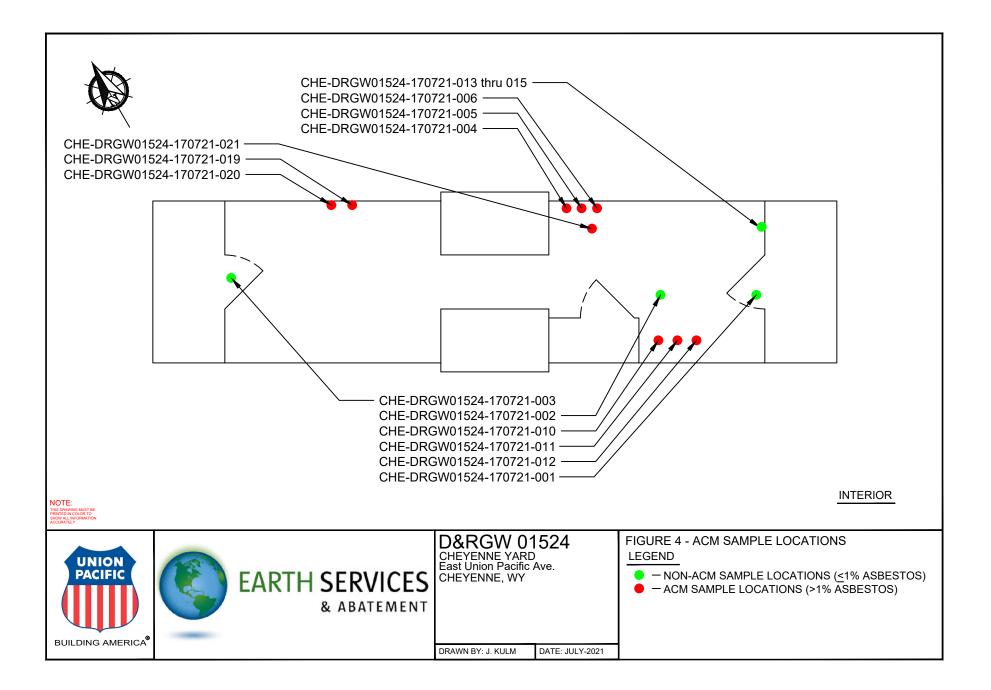
Appendix 1 - Figures

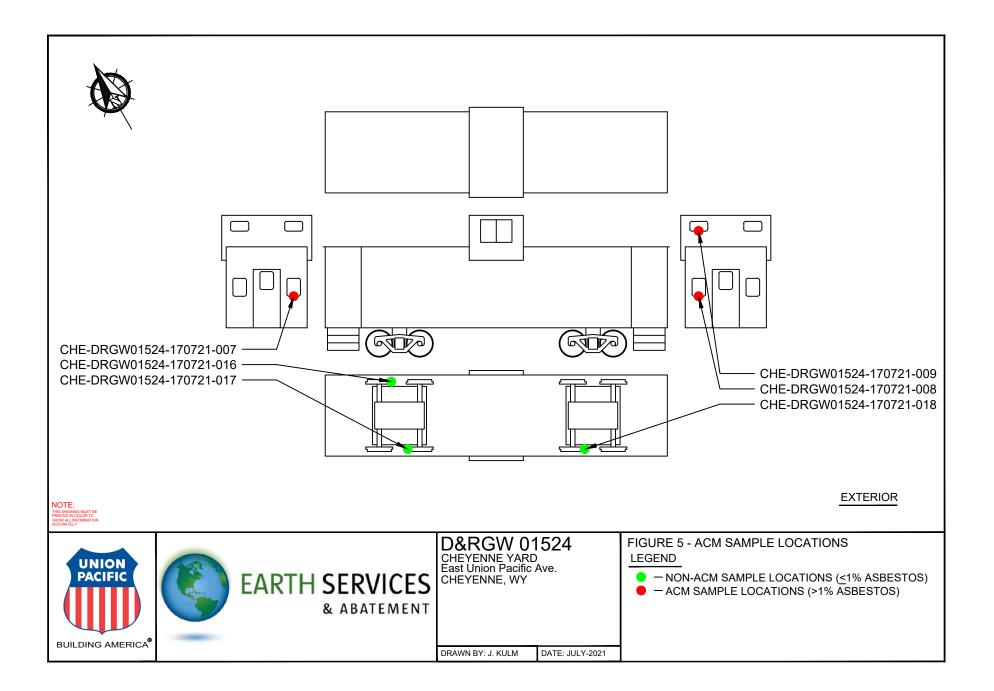
Report Date08/10/2021Rolling Stock TypeCabooseRolling Stock NoD&RGW; 01524

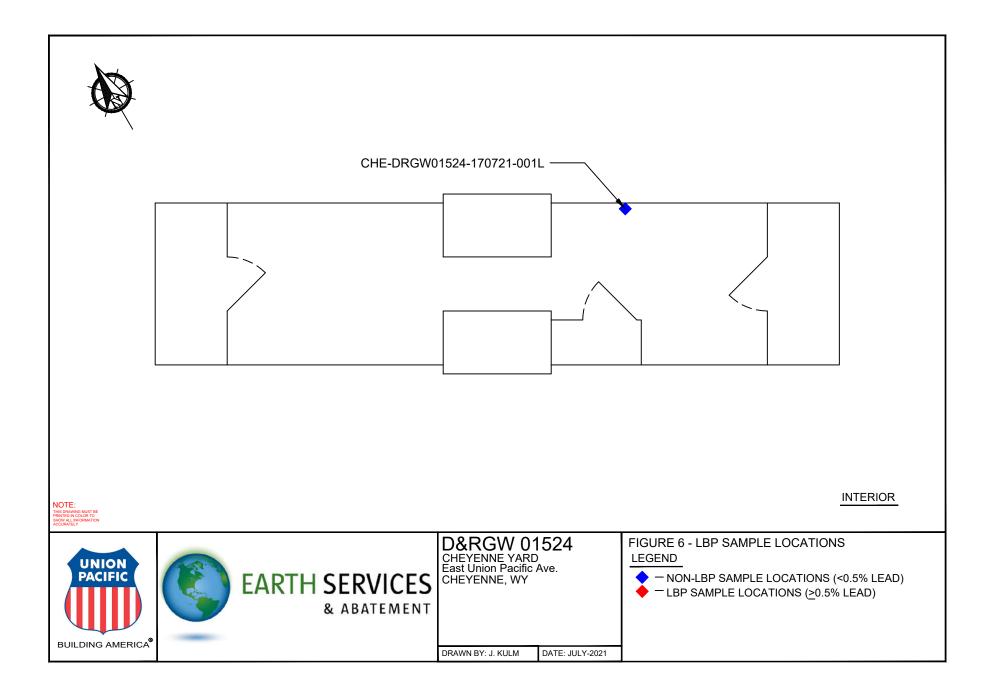


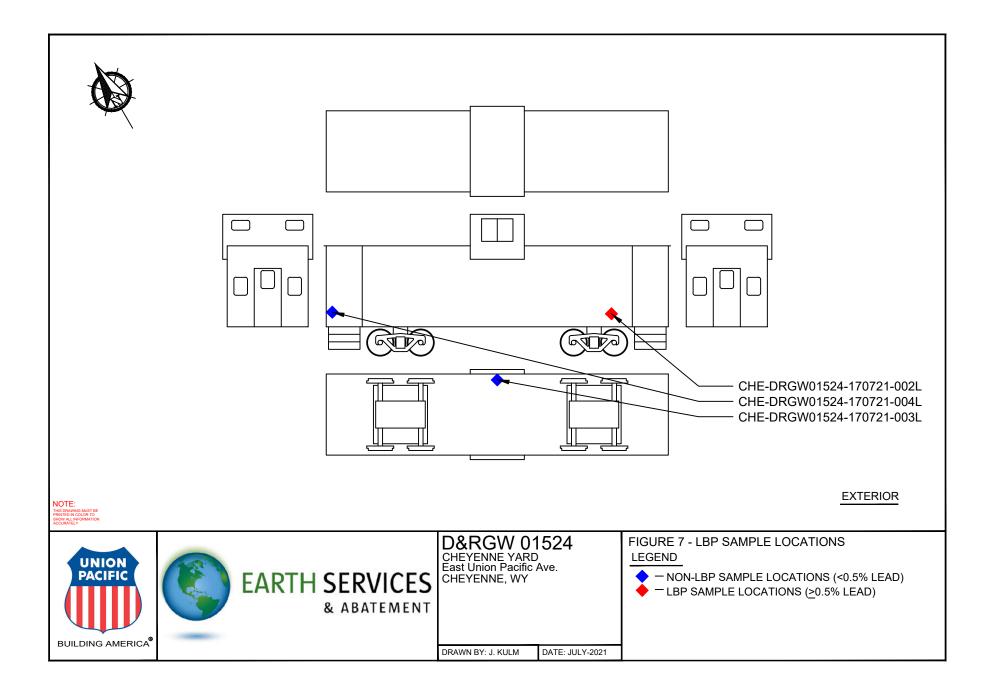


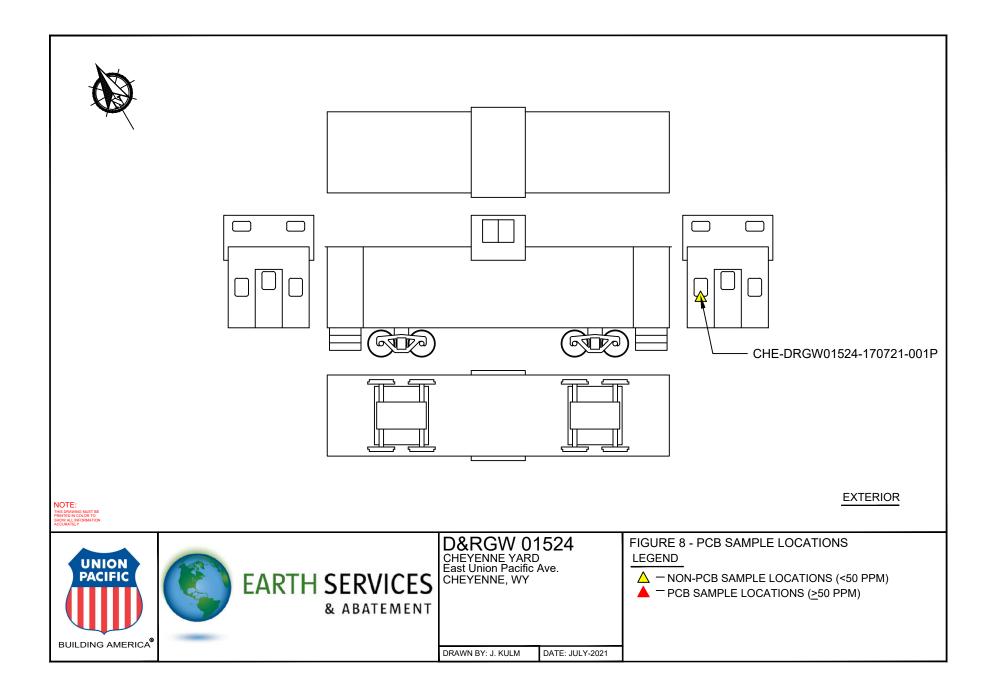


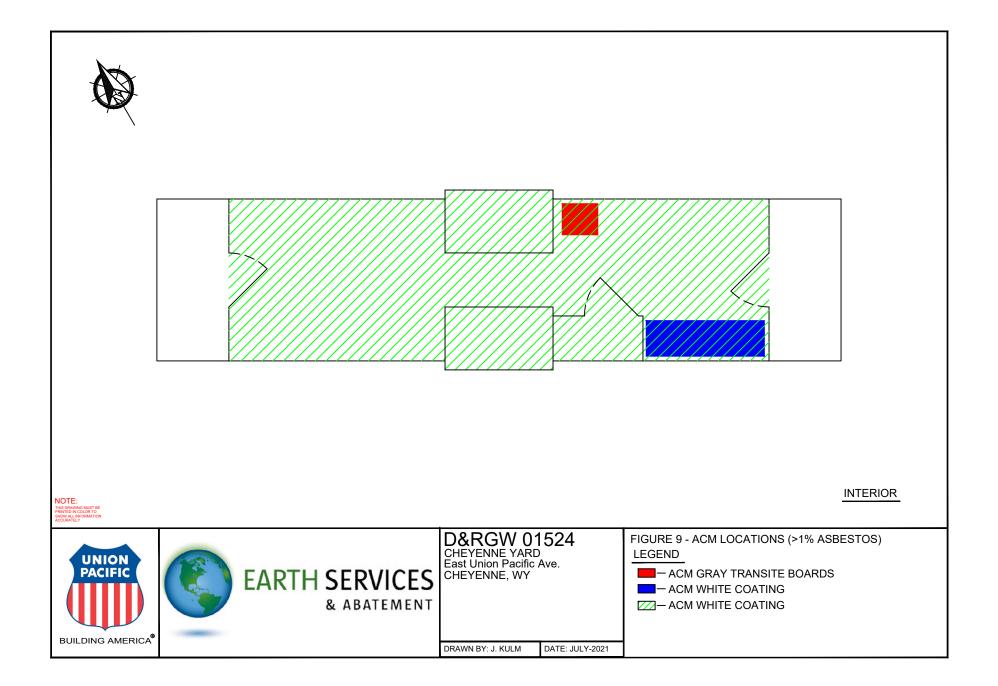


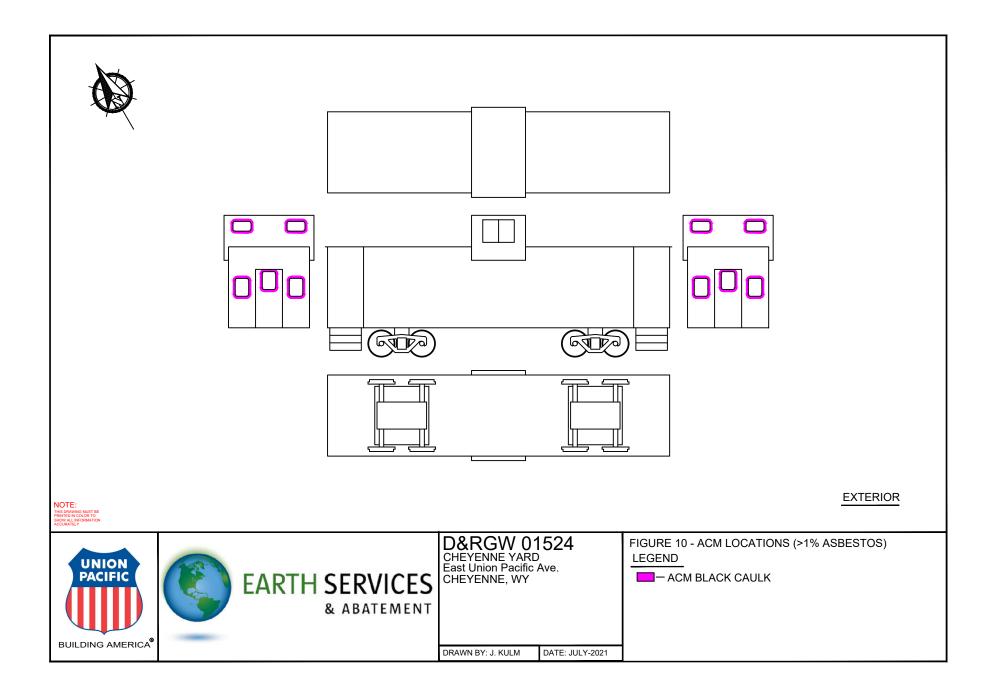












Appendix 2 - Lab Reports and Chain of Custody Receipts

Report Date	08/10/2021
Rolling Stock Type	Caboose
Rolling Stock No	D&RGW 01524

3113 Red Bluff Road, Pasadena, TX 77503 Phone: (713) 290-0223 - Fax: (713) 290-0248 *J3Resources.com*





Page 1 of 3

Bulk Asbestos Fiber Analysis by Polarized Light Microscopy (PLM) EPA 600/M4-82-020; 600/R-93/116 - Point Count Method

Joseph Kulm Earth Services & Abatement, Inc. 6700 E. 50th Avenue Commerce City CO 80022
 Order #:
 JH21129237

 Project #:
 215WY001

 Date Received:
 20-Jul-2021

 Date Analyzed:
 22-Jul-2021

 Date Reported:
 23-Jul-2021

D&RGW 01524 WY Rollingstock Inspections

Sample Description	Asbestos Constituent	S	Non-Asbestos Constituents	
LAYER 1 Flooring, Green/ Beige, Homogeneous	None Detected		Non-Fibrous Material	100%
LAYER 2 Mastic, Gray, Homogeneous	None Detected		Non-Fibrous Material	100%
LAYER 1 Flooring, Green/ Beige, Homogeneous	None Detected		Non-Fibrous Material	100%
LAYER 2 Mastic, Gray, Homogeneous	None Detected		Non-Fibrous Material	100%
LAYER 1 Flooring, Green/ Beige, Homogeneous	None Detected		Non-Fibrous Material	100%
LAYER 2 Mastic, Gray, Homogeneous	None Detected		Non-Fibrous Material	100%
Transite, Gray, Homogeneous	Chrysotile	15%	Non-Fibrous Material	85%
Transite, *Not analyzed per client reques	st			
Transite, *Not analyzed per client reques	st			
Caulk, Black, Homogeneous Original PLM Result: 5% Chrysotile	Chrysotile	2.00%	Non-Fibrous Material	98.00%
Gravimetric Reduction Pr	rep			
			Scott Ward, Ph.D.	Lab Director
_	LAYER 1 Flooring, Green/ Beige, Homogeneous LAYER 2 Mastic, Gray, Homogeneous LAYER 1 Flooring, Green/ Beige, Homogeneous LAYER 2 Mastic, Gray, Homogeneous LAYER 1 Flooring, Green/ Beige, Homogeneous LAYER 2 Mastic, Gray, Homogeneous Transite, Gray, Homogeneous Transite, Gray, Homogeneous Transite, *Not analyzed per client requess Caulk, Black, Homogeneous Original PLM Result: 5% Chrysotile	LAYER 1 Flooring, Green/ Beige, HomogeneousNone DetectedLAYER 2 Mastic, Gray, HomogeneousNone DetectedLAYER 1 Flooring, Green/ Beige, HomogeneousNone DetectedLAYER 2 Mastic, Gray, HomogeneousNone DetectedLAYER 1 Flooring, Green/ Beige, HomogeneousNone DetectedLAYER 2 Mastic, Gray, HomogeneousNone DetectedLAYER 1 Flooring, Green/ Beige, HomogeneousNone DetectedLAYER 2 Mastic, Gray, HomogeneousNone DetectedTransite, Gray, HomogeneousChrysotileTransite, Transite, *Not analyzed per client requestTransite, *Not analyzed per client requestCaulk, Black, HomogeneousChrysotile	LAYER 1 Flooring, Green/ Beige, HomogeneousNone DetectedLAYER 2 Mastic, Gray, HomogeneousNone DetectedLAYER 1 Flooring, Green/ Beige, HomogeneousNone DetectedLAYER 2 Mastic, Gray, HomogeneousNone DetectedLAYER 1 Flooring, Green/ Beige, HomogeneousNone DetectedLAYER 1 Flooring, Green/ Beige, HomogeneousNone DetectedLAYER 2 Mastic, Gray, HomogeneousNone DetectedLAYER 2 Mastic, Gray, HomogeneousNone DetectedTransite, Gray, HomogeneousChrysotileTransite, *Not analyzed per client requestItalyTransite, *Not analyzed per client requestChrysotileCaulk, Black, Homogeneous Original PLM Result: 5% ChrysotileChrysotile	LAYER 1 Flooring, Green/ Beige, HomogeneousNone DetectedNon-Fibrous MaterialLAYER 2 Mastic, Gray, HomogeneousNone DetectedNon-Fibrous MaterialLAYER 1 Flooring, Green/ Beige, HomogeneousNone DetectedNon-Fibrous MaterialLAYER 2 Mastic, Gray, HomogeneousNone DetectedNon-Fibrous MaterialLAYER 2 Mastic, Gray, HomogeneousNone DetectedNon-Fibrous MaterialLAYER 1 Flooring, Green/ Beige, HomogeneousNone DetectedNon-Fibrous MaterialLAYER 2 Mastic, Gray, HomogeneousNone DetectedNon-Fibrous MaterialLAYER 2 Mastic, Gray, HomogeneousNone DetectedNon-Fibrous MaterialLAYER 2 Mastic, Gray, HomogeneousNone DetectedNon-Fibrous MaterialTransite, Gray, HomogeneousChrysotile15%Non-Fibrous MaterialTransite, *Not analyzed per client requestChrysotile2.00%Non-Fibrous MaterialCaulk, Black, Homogeneous Original PLM Result: 5% ChrysotileChrysotile2.00%Non-Fibrous Material

AIHA-LAP, LLC Lab ID: 157714 TDSHS License: 30-0457

not be used to claim product approval, certification, or endorsement by NVLAP, NIST, or any agency of the federal government.

NVLAP Lab Code: 600120-0

3113 Red Bluff Road, Pasadena, TX 77503 Phone: (713) 290-0223 - Fax: (713) 290-0248 *J3Resources.com*



Bulk Asbestos Fiber Analysis by Polarized Light Microscopy (PLM) EPA 600/M4-82-020; 600/R-93/116 - Point Count Method

Joseph Kulm Earth Services & Abatement, Inc. 6700 E. 50th Avenue Commerce City CO 80022
 Order #:
 JH21129237

 Project #:
 215WY001

 Date Received:
 20-Jul-2021

 Date Analyzed:
 22-Jul-2021

 Date Reported:
 23-Jul-2021

D&RGW 01524 WY Rollingstock Inspections

Sample ID # Sample Description		Asbestos Constituents		Non-Asbestos Constituents	
CHE- DRGW01524- 170721-008	Caulk, *Not analyzed per client request				
CHE- DRGW01524- 170721-009	Caulk, *Not analyzed per client request				
CHE- DRGW01524- 170721-010 400 pt. POINT COUNT	Coating, Gray, Homogeneous Original PLM Result: 5% Chrysotile	Chrysotile	6.42%	Non-Fibrous Material	93.58%
	Gravimetric Reduction Pr	ер			
CHE- DRGW01524- 170721-011	Coating, *Not analyzed per client request	t			
CHE- DRGW01524- 170721-012	Coating, *Not analyzed per client request	t			
CHE- DRGW01524- 170721-013 400 pt. POINT COUNT	Sealant, Beige, Homogeneous Original PLM Result: 3% Chrysotile	Chrysotile	1.33%	Non-Fibrous Material	98.67%
	Gravimetric Reduction Pr	ер			
CHE- DRGW01524- 170721-014	Sealant, *Not analyzed per client request	t			
CHE- DRGW01524- 170721-015	Sealant, *Not analyzed per client request	t			

Scott Ward, Ph.D. Lab Director

 Jose Sequera
 Analyst
 Scott Ward, Ph.D.
 Lab Director

 These results apply to the sample(s) as received. This report is for the exclusive use of the addressed client and shall not be reproduced except in full, without written approval by Eurofins J3 Resources, Inc. (EJ3). Samples are analyzed according to the methods listed above and are subject to the inherent limitations of PLM and interference of matrix components. Reporting limit for the above method is a function of the quantity of sample analyzed, matrix interference, sample preparation, fiber size, and distribution. Asbestos may be detected in concentrations of <1% by area if sufficient material is analyzed. EJ3 recommends TEM confirmation of soils, vermiculite and non-friable organically bound materials (NOB) reported as None Detected or < 1% Asbestos by PLM. All samples received in good condition unless otherwise noted. This report shall not be used to claim product approval, certification, or endorsement by NVLAP, NIST, or any agency of the federal government.</th>
 Page 2 of 3

 NVLAP Lab Code: 600120-0
 AIHA-LAP, LLC Lab ID: 157714
 TDSHS License: 30-0457
 Page 2 of 3

3113 Red Bluff Road, Pasadena, TX 77503 Phone: (713) 290-0223 - Fax: (713) 290-0248 *J3Resources.com*



Bulk Asbestos Fiber Analysis by Polarized Light Microscopy (PLM) EPA 600/M4-82-020; 600/R-93/116 - Point Count Method

Joseph Kulm Earth Services & Abatement, Inc. 6700 E. 50th Avenue Commerce City CO 80022
 Order #:
 JH21129237

 Project #:
 215WY001

 Date Received:
 20-Jul-2021

 Date Analyzed:
 22-Jul-2021

 Date Reported:
 23-Jul-2021

D&RGW 01524 WY Rollingstock Inspections

Sample ID #	Sample Description	Asbestos Constituents	Non-Asbestos Constituents	
CHE- DRGW01524- 170721-016	Brakes, Black, Homogeneous	None Detected	Non-Fibrous Material	100%
CHE- DRGW01524- 170721-017	Brakes, Black, Homogeneous	None Detected	Non-Fibrous Material	100%
CHE- DRGW01524- 170721-018	Brakes, Black, Homogeneous	None Detected	Non-Fibrous Material	100%
CHE- DRGW01524- 170721-019	Coating, Beige, Homogeneous	Chrysotile 8%	Non-Fibrous Material	92%
CHE- DRGW01524- 170721-020	Coating, *Not analyzed per client req	uest		

Scott Ward, Ph.D. Lab Director

Jose Sequera

Analyst

These results apply to the sample(s) as received. This report is for the exclusive use of the addressed client and shall not be reproduced except in full, without written approval by Eurofins J3 Resources, Inc. (EJ3). Samples are analyzed according to the methods listed above and are subject to the inherent limitations of PLM and interference of matrix components. Reporting limit for the above method is a function of the quantity of sample analyzed, matrix interference, sample preparation, fiber size, and distribution. Asbestos may be detected in concentrations of <1% by area if sufficient material is analyzed. EJ3 recommends TEM confirmation of soils, verniculite and non-friable organically bound materials (NOB) reported as None Detected or < 1% Asbestos by PLM. All samples received in good condition unless otherwise noted. This report shall not be used to claim product approval, certification, or endorsement by NVLAP, NIST, or any agency of the federal government.

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J3 Resource:

Open La	ab Fee		3.2	6	923	7				I .	13 Resource
Submitter Name:	Joseph Kulm	Bill to:	Same	e							
Company:	Earth Servic	es & Ab	atement, llc		Address:						
Address:	6700 E 50th /	\ve	ann an		100				<u> </u>		
				444.64.444	City/State	9;	4444 y		Zip	•	
City/State: Cor	nmerce City , (0	Zip: ⁸⁰⁰²	2	7 -	15WY001					
				ject :	Informat	іоп			:		
Project Name: WY	Rollingstock In	spectio	ns		Proje	ct Manager	r: Ama	nda Woz	ab		
Project #: 215WY0					Telep	hone – Off	ice/Ce	1 402-57	78-685	8	
Reports - Email Add	iress: amanda	wozab	@esasite.com,	josep	h.kuim@es	asite.com,	robert.	.szynskie	@esa	site.com	***************************************
Invoice - Email Add	ress: same				Noti	fication By:	Εm	ail: 🖪	Ver	bal: 🛛	49736688888888888888888888888888888888888
Special Instructions	400 point-cou	unt sam	ples with detec	tions ı	up to 5% as	bestos with	ו GR, נ	as neede	d	***************************************	
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PLM - Bulk	PCM -	Air	TEM - Air	TE	M - Bulk	TEM - W	later	TEM -	Dust		N/PLM niculite/Ore
EPA 600/R-93/116 Visual Estimation (< 400 Point Count 0.2: 1,000 Point Count 0.2: Gravimetric Reduction Matrix Reduction (+/ NIOSH 9002 GSHA ID-191	5% 0 ISO 867 ,1% 0 OSHA IC on	7201 2	○ AHERA ○ NIOSH 7402 ○ ASTM D6281 ○ ISO 10312 ○ ISO 13794	Red O Matu Red O Qua O Dro	vimetric uction (<1%) rix uction (+/-) litative (+/-) op Mount ration	O EPA 100. Drinking V o >10 µm o ≥0.5 µn O EPA 100. Effluent / Received or O Yes Temp:	Water I fibers I fibers 2 WW WW	 ASTM Microv. ASTM Wipe 600/J-4 Carpet Bulk D Qualita 	- ac D6480 93/167 - EPA ust	 ○ ASTM 75 ○ CARB 43 ○ Soil – PLI ○ Vermiculi 	M Only (+/-) te - TEM (+/-) te-Cincinnati
· · · · · · · · · · · · · · · · · · ·	- · ·	· ·	METALS	.			·······	SI	LICA	/PARTIC	ULATES
Flame A	4A	Gra	phite Furnace / LEAD	4A -	T	ICP		X-R	ay Dif	fraction / C	Gravimetric
LEAD O Lead in Paint - SW845 7420/3050B O Drinking Water - EPA 200.9 O Lead in Air - NIOSH 7082 O Wastewater - SW848-7421 O Lead in Wipes - SW846 7420/3050B O Soil/Sludge - SW848-7421 O Lead in Soil - SW846 7420/3050B O Air - NIOSH 7105 O TCLP - SW846-1311/6010B O Air - NIOSH 7105			O Elements in Air – NIOSH 7300 O RespirableCrystallineSilica O Wipa/Soil – SW848-6010B O RespirableCrystallineSilica O Effluent – SW848-6010B O NIOSH 7500 / OSHA 142 O Welding Fume – NIOSH 7300M O NIOSH 0500 – Total Particulates O NIOSH 0600 – Respirable Particulates				2 liculates				
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Received By:				J	ł k		Date			Time:	
* Emergency TAT require *'TAT's are in Business I Eurofine J3 Resources,	Days rather than Hou	ırs (i.e.1 D	ay TAT = End of Next	t Busines	s Day)		-			_	

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J3 Resources

Project Name WY Rollingstock Inspections Project Number 215WY001 - D&

SAMPLE IDENTIFICATION

Page ____ of ____

SAMPLE NUMBER	SAMPLE LOCATION / MATERIAL	VOLUME/CONDITIO		
CHE-DRGW01524-170721-001	Beige flooring	×.		
CHE-DRGW01524-170721-002	Int. throughout			
CHE-DRGW01524-170721-003				
CHE-DRGW01524-170721-004	Gray transite			
CHE-DRGW01524-170721-005	Int. behind furnace			
CHE-DRGW01524-170721-006				
CHE-DRGW01524-170721-007	Błack caulk			
CHE-DRGW01524-170721-008	Ext. windows			
CHE-DRGW01524-170721-009				
CHE-DRGW01524-170721-010	White coating			
CHE-DRGW01524-170721-011	Int. water tank			
CHE-DRGW01524-170721-012				
CHE-DRGW01524-170721-013	Tan sealant			
CHE-DRGW01524-170721-014	Int. oil fill pipe			
CHE-DRGW01524-170721-015				
CHE-DRGW01524-170721-016	Brakes	:•		
CHE-DRGW01524-170721-017	Ext. wheels			
CHE-DRGW01524-170721-018				
CHE-DRGW01524-170721-019	White coating			
CHE-DRGW01524-170721-020	Int. wall and ceiling coating			

Eurofins J3 Resources, Inc. + 6110 West 34th Street • Houston, Texas 77092 • tel: 713-290-0221 • fax: 713-290-0248 Eurofins J3 Resources, Inc. + 3113 Red Bluff Road • Pasadena, Texas 77503 • tel: 713-290-0223 • fax: 713-290-0248

3113 Red Bluff Road, Pasadena, TX 77503 Phone: (713) 290-0223 - Fax: (713) 290-0248 *J3Resources.com*





Bulk Asbestos Fiber Analysis by Polarized Light Microscopy (PLM) EPA 600/M4-82-020; 600/R-93/116 - Point Count Method

Joseph Kulm Earth Services & Abatement, Inc. 6700 E. 50th Avenue Commerce City CO 80022
 Order #:
 JH21129508

 Project #:
 215WY001

 Date Received:
 29-Jul-2021

 Date Analyzed:
 02-Aug-2021

 Date Reported:
 03-Aug-2021

D&RGW 01524 WY Rollingstock Inspections

Sample ID #	Sample Description	Asbestos Constituer		Non-Asbestos Constituents	
CHE- DRGW01524- 170721-014 400 pt. POINT COUNT	Sealant, Beige, Homogeneous Original PLM Result: 3% Chrysotile	Chrysotile	1.43%	Non-Fibrous Material	98.57%
	Gravimetric Reduction I	Prep			
CHE- DRGW01524- 170721-015 400 pt. POINT COUNT	Sealant, Beige, Homogeneous Original PLM Result: 3% Chrysotile	Chrysotile	0.47%	Non-Fibrous Material	99.53%
	Gravimetric Reduction I	Prep			

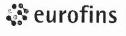
Scott Ward, Ph.D. Lab Director

Jose Sequera

Analyst

These results apply to the sample(s) as received. This report is for the exclusive use of the addressed client and shall not be reproduced except in full, without written approval by Eurofins J3 Resources, Inc. (EJ3). Samples are analyzed according to the methods listed above and are subject to the inherent limitations of PLM and interference of matrix components. Reporting limit for the above method is a function of the quantity of sample analyzed, matrix interference, sample preparation, fiber size, and distribution. Asbestos may be detected in concentrations of <1% by area if sufficient material is analyzed. EJ3 recommends TEM confirmation of soils, verniculite and non-friable organically bound materials (NOB) reported as None Detected or < 1% Asbestos by PLM. All samples received in good condition unless otherwise noted. This report shall not be used to claim product approval, certification, or endorsement by NVLAP, NIST, or any agency of the federal government.

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J3 Resource:

Open Lab Fee

129508

					10						
Submitter Name:	seph Kulm				Bill to:		Same				
Company: Ea	Earth Services & Abatement, Ilc				Addres	s:					(a)
Address: 670	00 E 50th Av	ve								<u></u>	5
					City/Sta	ate:			Zip		
City/State: Comme	erce City, C	0	Zip: 8002	22	1.00	215W)	Y001	0			
			100 million (1997)	10	Informa	ation	:	3	· .		> .i. ii
Project Name: WY Rolli	ngstock Ins	pectic	ons	A 497 8887	Pro	ject Ma	nager: Ama	Inda	Wozab		Al A
Project #: 215WY001 -					Tele	ephone	- Office/Ce	1 40	2-578-685	8	
Reports - Email Address	s: amanda.v	vozab	@esasite.com	, josepl	h.kulm@e	esasite.	com, robert	.szyr	iskie@esa	site.com	
Invoice - Email Address	: same				No	otificatio	on By: Em	ail: I	Veri	pal: 🛛	
Special Instructions: 40	0 point-cour	nt sam	nples with dete	ctions L	ıp to 5% a	asbesto	os with GR, a	as ne	eded		·
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Emergency*	1 0	Day		2 Day	/ 🗆		3 Day	Z		5 Day	, 🗆
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PLM - Bulk	PCM - A	\ir	TEM - Air	TE	M - Bulk	TE	M - Water	ТЕ	M - Dust		M/PLM miculite/Ore
 EPA 600/R-93/116 Visual Estimation (<1%) 400 Point Count 0.25% 1,000 Point Count 0.1% Gravimetric Reduction Matrix Reduction (+/-) NIOSH 9002 OSHA ID-191 	Image: Normal Science O NIOSH 7400 O NIOSH 7402 Reduction Niosh 7402 O NIOSH 7402 Reduction Reduction O Matrix Niosh 7402 O NIOSH 7402 Reduction O Matrix O Matrix Normal Science O SHA ID-160 O ISO 10312 O Quality Provide O SHA ID-160 O ISO 13794 O Quality		uction (<1% ix uction (+/-) litative (+/-) op Mount	6) Drir ○ > ○ ≥ ○ EP/ Effl		mg Water µm fibers µm fibers 00.2 nt / WW d on ice: O Microvac ASTM D648 Wipe 0 600/J-93/163 Carpet - EPA		O ASTM 7521-TEM (<1% O CARB 435-Modified O Soil − PLM Only (+/-) O Vermiculite _ TEM (+/-)			
	a 200 ar	5 %	METALS	1					SILICA	/PARTI	CULATES
Flame AA		Gra	aphite Furnace . LEAD	AA -		IC	:P				Gravimetric
O Lead in Paint - SW846 7420/3050B O Drinking Water - EPA 200.9 O Lead in Air - NIOSH 7082 O Wastewater - SW846-7421 O Lead in Wipes - SW846 7420/3050B O Soil/Sludge - SW846-7421 O Lead in Soil - SW846 7420/3050B O Air - NIOSH 7105 O TCLP - SW846-1311/6010B O Air - NIOSH 7105			 C Elements in Air – NIOSH 7300 Wipe/Soil – SW846-6010B C Effluent – SW846-6010B C Welding Fume – NIOSH 7300M C NIOSH 0500 – Total Particulates C NIOSH 0600 – Respirable Particulates 				2 rticulates				
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Received By: Relinquished By:				<i>.</i>	· / · ·		Date		110101	Time:	10:30
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* Emergency TAT requires prio **TAT's are in Business Days r Eurofins J3 Resources, Inc.	ather than Hours	(i.e.1 D	ay TAT = End of Nex	t Business	i Day)		arged at Emerge	ncy rat			

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J3 Resources

Project Name WY Rollingstock Inspections Project Number 215WY001 - D&

SAMPLE IDENTIFICATION

Page ____ of ____

SAMPLE NUMBER	SAMPLE LOCATION / MATERIAL	VOLUME/CONDITION
CHE-DRGW01524-170721-001	Beige flooring	×
CHE-DRGW01524-170721-002	Int. throughout	
CHE-DRGW01524-170721-003		
CHE-DRGW01524-170721-004	Gray transite	
CHE-DRGW01524-170721-005	Int. behind furnace	
CHE-DRGW01524-170721-006		
CHE-DRGW01524-170721-007	Black caulk	
CHE-DRGW01524-170721-008	Ext. windows	
CHE-DRGW01524-170721-009		
CHE-DRGW01524-170721-010	White caulk	
CHE-DRGW01524-170721-011	Int. water tank	
CHE-DRGW01524-170721-012		
CHE-DRGW01524-170721-013	Tan sealant	
CHE-DRGW01524-170721-014	Int. oil fill pipe	
CHE-DRGW01524-170721-015		
CHE-DRGW01524-170721-016	Brakes	· · · · · · · · · · · · · · · · · · ·
CHE-DRGW01524-170721-017	Ext. wheels	
CHE-DRGW01524-170721-018		
CHE-DRGW01524-170721-019	White coating	
CHE-DRGW01524-170721-020	Int. wall and ceiling coating	
Comments/Special Instructions:		



 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: 222105227 CustomerID: ESAB42 CustomerPO: ProjectID:

Attn:	Joseph Kulm	Phone:	(303) 339-3051	
	Earth Services & Abatement, Inc.	Fax:		
	6700 E. 50th Ave.	Received:	7/20/2021 01:30 PM	
	Commerce City, CO 80022	Analysis Date:	7/28/2021	
		Collected:	7/17/2021	
Proje	ct: 215WY001, DRWG 01524			

Test Report: Polarized Light Microscopy (PLM) - Point Count Performed by EPA 600/R-93/116 Method with Gravimetric Reduction and 400 Point Count

SAMPLE ID	DESCRIPTION	APPEARANCE	• • •	Matrix c Acid	NON- ASBESTOS % Fibrous	NON- ASBESTOS % NON-FIBROUS	ASBESTOS % TYPES
CHE- DRGW01524- 170721-021 222105227-0001	WHITE COATING	White Fibrous	24.2	21.8		49.2 Non-fibrous (other)	4.7 Chrysotile
		Homogeneous					

Analyst(s)

Timothy Kleehammer (1)

Henry Printz, TEM/PCM Laboratory Supervisor or other approved signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method") but augmented with procedures outlined in the 1993 ("final") version of the method. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Some samples may uncertainty is available on request.

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

Initial report from 07/28/2021 10:36:04



.

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

EMSL Analytical, Inc. 1010 Yuma Street

222105227

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

Company : Earth Services &	Abatement, In	IC.	EMSL-B If Bill to is Difi	ill to: Dif		Same
Street: 6700 E. 50th Ave.			Third Party Billing red	guires written aut	horization	n from third party
City: Commerce City	State/F	Province: CO	Zip/Postal Code: 80022			nited States
Report To (Name): Amanda \			Telephone #: 303-991-1	-		
Email Address: See special	-	is	Fax #: 303-991-1282		chase O	erder:
Project Name/Number: 215W			Please Provide Results			
U.S. State Samples Taken: W			Connecticut Samples:			sidential
			() Options* – Please Che	ck	_	
3 Hour 6 Hour 6 Hour For TEM Air 3 hr through 6 hr, plea	24 Hour		72 Hour/	6 Hour	1 Week	
an authorization form for this	se call anead to scl s service. Analysis	completed in accorda	nium charge 10+6 Hour TEM An nce with EMSL's Terms and Cor	IERA or EPA Leve Inditions located in	the Analyl	You will be asked to sign lical Price Guide.
PCM - Air 🗌 Check if sample			4.5hr TAT (AHERA only)	TEM- Dust		
□ NIOSH 7400		AHERA 40 C	FR, Part 763	🛛 🗌 Microvac -	- ASTM I	D 5755
🔲 w/ OSHA 8hr. TWA		NIOSH 7402		🛛 🗌 Wipe - AS	TM D64	80
PLM - Bulk (reporting limit)		EPA Level II		📋 🗖 Carpet So	nication	(EPA 600/J-93/167)
PLM EPA 600/R-93/116 (<1)	1%)	🔲 ISO 10312		Soil/Rock/Ve	ermiculi	te
🔲 PLM EPA NOB (<1%)		TEM - Bulk		🛛 🗌 PLM CAR	B 435 - A	A (0.25% sensitivity)
Point Count		TEM EPA NO	В	DI PLM CAR	B 435 - I	B (0.1% sensitivity)
🔳 400 (<0.25%) 🔲 1000 (<0.1	1%)		8.4 (non-friable-NY)			B (0.1% sensitivity)
Point Count w/Gravimetric		Chatfield SO				C (0.01% sensitivity)
🔲 400 (<0.25%) 🔲 1000 (<0.1	1%)		nalysis-EPA 600 sec. 2.5	4		ration Technique
NYS 198.1 (friable in NY)		TEM - Water: E			l. via Dro	p-Mount Technique
🔲 NYS 198.6 NOB (non-friab	le-NY)		Waste Drinking	Other:		
NIOSH 9002 (<1%)		All Fiber Sizes	Waste Drinking			
Check For Positive Stop -	- Clearly Identif	y Homogenous G	roup Filter Pore Size (/	Air Samples):	0.8	ım 🔲 0.45µm
_{Samplers Name:} Joseph	Kulm		Samplers Signature:			
Sample #		Sample Descripti	on	Volume/Are HA # (Bu		Date/Time Sampled
CHE-DRGW01524-170721-021		White coatir	a			7/17/2021, 1000 AM
			.9			
	•	-		1		
			<u>.</u>			
		<u>.</u>				
Client Sample # (s):		· · · · · ·		Total # of San	nples:	
	Cost S	- my No Date:	7-20-21	Total # of San	nples: Time	
Relinquished (Client):	LM	- 	7-20-21	Total # of Sam	_*	
Relinquished (Client): Received (Lab): Comments/Special Instructio	LM ²	Date:	7-20-21 7/20 1:3	30	Time: Time:	
Relinquished (Client):	LM ²	Date:	7-20-21 7/20 1:3	30	Time: Time:	

Page 1 of ____ pages

3113 Red Bluff Road Pasadena, Texas 77503 Phone: (713) 290-0223 – Fax: (832) 831-5669 *j3resources.com*



J3 Resources

<u>Lead in Paint Performed by</u> <u>Flame AA – USEPA SW846 7420/3050B (Mod.)</u>

Amanda Wozab	Order #:	JP211028583
Earth Services & Abatement, Inc.	Project #:	215WY001
6700 E. 50th Avenue	Receipt Date:	21-Jul-2021
Commerce City, CO 80022	Analysis Date:	22-Jul-2021
	Report Date:	23-Jul-2021
WY Rollingstock Inspections-D&RGW 0	1524	

SAMPLE ID	PAINT COLOR	LEAD CONCENTRATION (mg/kg)	LEAD CONCENTRATION (%)
CHE-DRGW01524-170721-001L	Gray	1300	0.13%
CHE-DRGW01524-170721-002L	Yellow	120000	12%
CHE-DRGW01524-170721-003L	Black	830	0.083%
CHE-DRGW01524-170721-004L	White	2500	0.25%

Reporting Limit = 50.0 mg/kg N/A = Not Applicable INS = Insufficient Sample Weight NS = Not Submitted

Analyst: Shervin Aghaabbasi

Scott Ward, Ph.D. Lab Director

This report relates only to the samples submitted. The analysis has been conducted according to the method(s) listed above. Blank corrections are not applied to data unless requested by the customer. This report is for the exclusive use of the addressed customer and shall not be reproduced except in full without written approval by Eurofins J3 Resources, Inc. (EJ3). EJ3 is an EPA NLLAP recognized lab by the AIHA-LAP, LLC ELLAP (Lab ID: 157714). Unless otherwise noted, all quality control samples performed within specifications established by the laboratory. The estimated accuracy is solely based on recovery data from internal laboratory control samples at the 95% confidence interval of the level of concern, derived from a 287 mg/kg lead in paint matrix reference material. The estimated accuracy does not account for uncertainty associated with the sampling process. Accuracy = +/-9%

💸 eurofins |

J3 Resource

[] Open	Lab	Fee	

|--|

Submitter Name:	Jos	seph Kulm					Bill to:	Same					
Company:	Ea	irth Service	s & Al	batement	, lic		Address:						
Address:	670	0 E 50th A	ve										
							City/State				Zip:		
City/State: Co	mme	rce City, C	0	Zini	8002	2	1 -	15WY001					
City/State.	-			<u> </u>			nformat						
Project Name: WY	Rolli	nastock Ins	nectio	ns.		<u></u>		ct Manager:	Amand	a Wozab			
Project #: 215WY0							Telep	hone – Offic	e/Cell	402-578-6	3858		
Reports - Email Ad				Mesasit	e com	iosent							
Invoice - Email Add			wozar	J@esasiti	e.com,	Josepi		fication By:	Email	-		al: 🗆	
		June					Nou	lication by:					
Special Instructions	3;		. <u>.</u>	·····				······					
	· · ·			Turnard	bund	Times	s — Pleas	e Select O	ne				
Emergency*		1	Day			2 Day		3 D	ay 🗹			5 Day	
						ASB	ESTOS					· · ·	
PLM - Bulk		PCM -	Air	TEM	- Air	TE	M - Bulk	TEM - Wa	ter	TEM - Du	st		/PLM iculite/Ore
 EPA 600/R-93/116 Visual Estimation (* 400 Point Count 0.2 1,000 Point Count 0 Gravimetric Reduct Matrix Reduction (* NIOSH 9002 OSHA ID-191 	25% 0.1% tion	○ NIOSH 7 ○ ASTM D ○ ISO 8672 ○ OSHA ID	7201 !	○ AHERA ○ NIOSH ○ ASTM ○ ISO 10 ○ ISO 13	7402 D6281 312	Redu O Matr Redu O Qua	uction (+/-) litative (+/-) op Mount	 > 10 μm f ≥0.5 μm f ∈ EPA 100.2 Effluent / W Received on i 	ater bers ībers W	ASTM D57 Microvac ASTM D64 Wipe 600/J-93/1 Carpet - EF Bulk Dust Qualitative	480 167 PA	 ASTM 752 ASTM 752 CARB 435 Soil – PLM Vermiculité Vermiculité Erionite ID 	21-TEM (<1%) 5-Modified 1 Only (+/-) e - TEM (+/-) e-Cincinnati
2 .		L		META	LS					SILI	CA/	PARTIC	ULATES
Flame	AA	·	Gr	aphite Fu		AA -		ICP		X-Ray	Diff	raction / G	ravimetric
Lead in Paint – SW8 Lead in Air – NIOSH Lead in Wipes – SW Lead in Soil – SW84 O TCLP – SW846-131	7082 846 7 6 742	420/3050B 0/3050B	O Wa: O Soil	king Water stewater – \$ /Sludge – \$ - NIOSH 71	- EPA SW846- SW846-7	7421	O Wipe/So O Effluent	s in Air – NIOSH il – SW846-6010 - SW846-6010E Fume – NIOSH)B		1 750 1 050	Crystalline Silic 0 / OSHA 142 0 – Total Parti 0 – Respirable	iculates
Total Number	of S	amples S	Subn	nitted: 4	4		Positiv	e Stop:		ES	в	NO	
· -		160	-	<u> </u>		Sig	natures			· · · ·		· ·	
Relinquished By:		<u> </u>	Ø	Z			m		Date:	7/10	$\frac{1}{2}$	Time:	12-01
Received By:								د ۲۰۰۰	Date:	11770	4	Time:	10.30
Relinquished By: Received By:							v		Date: Date:			Time: Time:	
* Emergency TAT requi **TAT's are in Busines:	ires pri 5 Davs	or lab notificati rather than Hou	on. All sa Irs (i.e.1	amples analy. Day TAT = Ei	zed outsi nd of Nex	ide norma et Busines	l business hou s Day)	rs are charged at		y rate.			
Eurofins J3 Resource								3-290-0221 + fax	c: 713-29	0-0248		Baga	

Project Name WY Rollingstock Inspections

Project Number 215WY001 - D&

IH CHAIN OF CUSTODY

💸 eurofins

J3 Resources

SAMPLE IDENTIFICATION

Page ____ of ____

SAMPLE NUMBER	SAMPLE LOCATION / MATERIAL	VOLUME/CONDITION
CHE-DRGW01524-170721-001L	Gray	
	Int. throughout	
CHE-DRGW01524-170721-002L	Yellow	
	Int. handrails and ext. car	
CHE-DRGW01524-170721-003L	Black	
	Ext./Int. popup chairs and exterior undercarriage	
CHE-DRGW01524-170721-004L	White	
	Ext. handrails	
	· · · ·	

Eurofins J3 Resources, Inc. + 6110 West 34th Street + Houston, Texas 77092 + tel: 713-290-0221 + fax: 713-290-0248 Eurofins J3 Resources, Inc. + 3113 Red Bluff Road +Pasadena, Texas 77503 + tel: 713-290-0223 + fax: 713-290-0248 LIMS Version: 7.020

Monday, August 09, 2021

Amanda Wozab Earth Services & Abatement 6700 E. 50th Ave. Commerce City, CO 80022

Re: ALS Workorder: 2107399 Project Name: Cheyenne RS Project Number: 215WY001

Dear Ms. Wozab:

One solid sample was received from Earth Services & Abatement, on 7/21/2021. The sample was scheduled for the following analysis:

PCBs

The results for these analyses are contained in the enclosed reports.

The data contained in the following report have been reviewed and approved by the personnel listed below. In addition, ALS certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental.

Thank you for your confidence in ALS Environmental. Should you have any questions, please call.

Sincerely,

ALS Environmental Katie M. OBrien Project Manager





2107399

PCB:

The sample was analyzed using GC/ECD (electron capture detectors) according to the current revision of SOP 409 based on SW-846 Method 8082.

All acceptance criteria were met.

ALS -- Fort Collins

Sample Number(s) Cross-Reference Table

OrderNum: 2107399 Client Name: Earth Services & Abatement Client Project Name: Cheyenne RS Client Project Number: 215WY001 Client PO Number:

Client Sample Number	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
CHE-DRGW01524-170721-001P;	2107399-1		SOLID	17-Jul-21	12:00

Group
Laboratory
ALS

0

Chain-of-Custody



225 Commerce Drive, Fort Coltins, Colorado 80524

	TF∴ (800) 443-1511 PH∴ (970) 490-1511 FX; (970) 490-1522 —								Form 202r8				
「アート」		SAM	SAMPLER JOS	Joseph Kulm				DATE		PAGE	-	of	-
PROJECT NAME	PROJECT NAME Cheyenne RS	J	SITE ID D&F	D&RGW 01524	4		22	TURNAROUND	5 Day	DISPOSAL	By Lab or	Return to	Return to Client
PROJECT No.	PROJECT No. 215WY001	EDD FORMAT	tMAT									F	
		PURCHASE ORDER	DER							_			
COMPANY NAME	Earth Services & Abatement	BILL TO COMPANY		Earth Services & Abatement	Abatement								_
SEND REPORT TO		INVOICE ATTN TO	N TO										
ADDRESS	6700 E. 50th Ave.	ADDI	ADDRESS 6700	6700 E, 50th Ave.			1						
CITY / STATE / ZIP	Commerce City, CO 80022	CITY / STATE / ZIP		Commerce City, CO 80022	0 80022		Γ						
PHONE	303-991-1280	ta	PHONE 303-	303-991-1280			Τ						
FAX	303-991-1282		FAX 303-	303-991-1282			85						
E-MAIL	Amanda Wozab@esasite.com, Joseph Kuim@ESAsite.com	ш.	E-MAIL				PCB by 80						
Lab ID	Field D	Matrix	Sample Date	Sample Time	# Bottles	Pres.	8						
	CHE-DRGW01524-170721-001P; Caulk	SZ	07.17.21	1200			×						
							_						
							_				_		
Time Zone (Circle): EST Co	Time Zone (Circle). EST CST MST PST Matmx: O = oil S = soil NS = non-soil solid W = water L = liquid E = extract F = fitter Or metals or anions: please detail analytes below.	olid W = water L = liquid	E = extract	F = filter								2010 1.025	-
comments:		C PACKA	OC PACKAGE (check below)		RFI	REI INDITICHED BV	Na	alm		PKIN ED NAME			TIME
			LEVEL II (Standard QC)	d C)		RECEIVED BY				Filmer.	144	10	Dalle
			LEVEL III (Std QC + forms)	+ forms)	REI	RELINCUISHED BY	RY			-critery	14/1	2	2

				LEVE	LEVEL II (Standard QC)
			<u> </u>	LEVE	LEVEL III (Sid QC + forms)
				LEVE + raw	LEVEL IV (Std QC + forms + raw data)
14 4-NaOH	5-NaHSO4	7-Other	8-4 degrees C	9-5035	
A 4-NaC	E	0H 5-NaHSO4	0H 5-NaHSO4 7-Other	DH 5-NaHSO4 7-Other 8-4 degrees C	1-HCi 2-HNO3 3-H2SO4 4-NaOH 5-NaHSO4 7-Other 8-4 degrees C 9-5035

(

	SIGNATURE	PRINTED NAME	DATE	TIME
RELINQUISHED BY	my mil	Joseph Kulm	0/2	
RECEIVED BY	111	. Oxh Echeri	nin L	2000
RELINQUISHED BY			14 14 1	
RECEIVED BY				
RELINQUISHED BY				
RECEIVED BY				



ALS Environmental - Fort Collins CONDITION OF SAMPLE UPON RECEIPT FORM

(ALS)									
	Client:	EARTH SERVICES & ABAT	EMENT	Worko	order No:	2	107399		
Project M	anager:	КМО		Initials:	JPE	Date:	07/3	21/2021	
							N/A	YES	NO
^{1.} Are airbills /	shippinç	documents present and/or	removable	?				v	
Tracking n	umber: 2	815 9831 3879						Х	l
2. Are custody	seals on	shipping containers intact?					Х		
3. Are custody	seals on	sample containers intact?					Х		
	•	-of-custody) present?						Х	
5.	-	ent with samples received? equested analyses, etc.)	(IDs, dates,	times, #	of sampl	es, # of		х	
6. Are short-ho	ld samp	les present?							Х
7. Are all samp	les withi	n holding times for the requ	iested analy	yses?				Х	
^{8.} Were all sam	ple con	tainers received intact? (no	t broken or	leaking)			Х	
9. Is there suffi	cient sar	nple for the requested analy	yses?					Х	
10. Are samples <i>Guidelines</i>)	in prope	er containers for requested a	analyses? (f	orm 250, 3	Sample Hai	ndling		х	
11. Are all aqueo	ous sam	oles preserved correctly, if re	equired? (e	excluding	volatiles	5)	Х		
		ring no headspace (VOC, GR ameter? (i.e. size of green pe		E, rador	n) free of	bubbles	х		
13. Were the sa	mples sh	ipped on ice?							Х
^{14.} Were cooler t	emperati	ures measured at 0.1-6.0°C?	IR gun used*:	#5			RAD ONLY		Х
C	ooler #:	1							
Temperatu	ıre (°C):	AMB							
# of custody seals of	on cooler:	0							
External µR/h	r reading:	11							
Background µR/h	r reading:	11							
Were external µR	!/hr reading	$s \leq two times background and within E$	DOT acceptance	criteria?	YES / NO /	NA (If no, s	ee Form 00	8.)	
* Please provide of	details he	re for NO responses to boxes ab	ove - for 2 th	nru 5 & 7 t	thru 12, no	otify PM &	continue	w/ login.	
Were unpreserve	d bottles	pH checked? YES / NA	All clie	ent hottle	ID's vs Al	S lab ID's d	louble-ch	ecked by	JE
·•		ontacted? YES / NQ / NA Contact			. <i>D</i> 5 75 71L		Date/1		
			1					7/21/	/21
Project Manager	Signatur	e / Date:	11				_		
Form 201r30 vis									

ALS -- Fort Collins

Collection Date: 7/17/2021 12:00

Client:

Project:

Sample ID:

Legal Location:

Earth Services & Abatement

CHE-DRGW01524-170721-001P; Caulk

215WY001 Cheyenne RS

SAMPLE SUMMARY REPORT

Date: 09-Aug-21

Work Order: 2107399

Lab ID: 2107399-1

Matrix: SOLID

Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBs		SW8	082	Prep	Date: 7/30/2021	PrepBy:CPC
AROCLOR-1016	ND		1.9	MG/KG	6	8/6/2021 12:21
AROCLOR-1221	ND		3.8	MG/KG	6	8/6/2021 12:21
AROCLOR-1232	ND		1.9	MG/KG	6	8/6/2021 12:21
AROCLOR-1242	ND		1.9	MG/KG	6	8/6/2021 12:21
AROCLOR-1248	ND		1.9	MG/KG	6	8/6/2021 12:21
AROCLOR-1254	ND		1.9	MG/KG	6	8/6/2021 12:21
AROCLOR-1260	ND		1.9	MG/KG	6	8/6/2021 12:21
Surr: TETRACHLORO-M-XYLENE	84		69-129	%REC	6	8/6/2021 12:21
Surr: DECACHLOROBIPHENYL	100		55-135	%REC	6	8/6/2021 12:21

ALS -- Fort Collins

SAMPLE SUMMARY REPORT

Client:	Earth Services & Abatement	Date: 09-Aug-21					
Project:	215WY001 Cheyenne RS			Work Order: 2107	399		
Sample ID:	CHE-DRGW01524-170721-001P; Caulk	Lab ID: 2107399-1					
Legal Location:				Matrix: SOLI	D		
Collection Date:	e: 7/17/2021 12:00 Percent Moisture:						
Analyses	Result	Report Qual Limit	Units	Dilution Factor	Date Analyzed		
Explanation of Q	Qualifiers						

Inorganics:

B - Result is less than the requested reporting limit but greater than the instrument method detection limit (MDL).

U or ND - Indicates that the compound was analyzed for but not detected.

E - The reported value is estimated because of the presence of interference. An explanatory note may be included in the narrative.

M - Duplicate injection precision was not met.

N - Spiked sample recovery not within control limits. A post spike is analyzed for all ICP analyses when the matrix spike and or spike duplicate fail and the native sample concentration is less than four times the spike added concentration.

Z - Spiked recovery not within control limits. An explanatory note may be included in the narrative.

* - Duplicate analysis (relative percent difference) not within control limits.

S - SAR value is estimated as one or more analytes used in the calculation were not detected above the detection limit.

Organics:

U or ND - Indicates that the compound was analyzed for but not detected.

B - Analyte is detected in the associated method blank as well as in the sample. It indicates probable blank contamination and warns the data user.

E - Analyte concentration exceeds the upper level of the calibration range.

J - Estimated value. The result is less than the reporting limit but greater than the instrument method detection limit (MDL).

A - A tentatively identified compound is a suspected aldol-condensation product.

- X The analyte was diluted below an accurate quantitation level.
- * The spike recovery is equal to or outside the control criteria used.
- + The relative percent difference (RPD) equals or exceeds the control criteria.
- G A pattern resembling gasoline was detected in this sample.
- D A pattern resembling diesel was detected in this sample.
- M A pattern resembling motor oil was detected in this sample.
- C A pattern resembling crude oil was detected in this sample.
- 4 A pattern resembling JP-4 was detected in this sample.
- 5 A pattern resembling JP-5 was detected in this sample.
- H Indicates that the fuel pattern was in the heavier end of the retention time window for the analyte of interest.
- L Indicates that the fuel pattern was in the lighter end of the retention time window for the analyte of interest.
- Z This flag indicates that a significant fraction of the reported result did not resemble the patterns of any of the following petroleum hydrocarbon products: gasoline
- JP-8
- diesel
- mineral spirits
- motor oil
- Stoddard solvent
- bunker C

ALS -- Fort Collins

Client:	Earth Services & Abatement
Work Order:	2107399
Project:	215WY001 Cheyenne RS

QC BATCH REPORT

Batch ID: EX210730-3-1	Instrument ID: Pes	st-1		Method: SV	V8082						
LCS Sample ID: EX210730)-3			Ur	nits: MG/K	G	Analy	sis Date: 8	/6/2021	14:13	
Client ID:	Run II	D: PT210806-1	1				Prep Date: 7/3	0/2021	DF	: 1	
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qua
AROCLOR-1016	0.133	0.0333	0.133		99	80-120				50	
AROCLOR-1260	0.137	0.0333	0.133		103	80-125				50	
Surr: TETRACHLORO-M-XYLENE	0.0152	0.0000	0.0167		91	69-129					
Surr: DECACHLOROBIPHENYL	0.0187		0.0167		112	55-135					
LCSD Sample ID: EX210730)-3			Ur	nits: MG/K	G	Analy	sis Date: 8	/6/2021	14:32	
Client ID:	Run II	D: PT210806-1	1				Prep Date: 7/3	0/2021	DF	: 1	
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qua
AROCLOR-1016	0.125	0.0333	0.133		94	80-120		0.133	6	50	
AROCLOR-1260	0.131	0.0333	0.133		99	80-125		0.137	4	50	
Surr: TETRACHLORO-M-XYLENE	0.015		0.0167		90	69-129			1		
Surr: DECACHLOROBIPHENYL	0.0178		0.0167		107	55-135			5		
MB Sample ID: EX210730)-3			Ur	nits: MG/K	G	Analy	sis Date: 8	/6/2021	11:25	
Client ID:	Run II	D: PT210806-1	1				Prep Date: 7/3	0/2021	DF	: 1	
Analyte	Result	ReportLimit									Qua
AROCLOR-1016	ND	0.033									
AROCLOR-1221	ND	0.067									
AROCLOR-1232	ND	0.033									
AROCLOR-1242	ND	0.033									
AROCLOR-1248	ND	0.033									
AROCLOR-1254	ND	0.033									
AROCLOR-1260	ND	0.033									
Surr: TETRACHLORO-M-XYLENE	0.0158				95	69-129					
Surr: DECACHLOROBIPHENYL	0.0178				107	55-135					

The following samples were analyzed in this batch:

2107399-1

Appendix 3 - Modified Sawyer Algorithm

Report Date	08/10/2021
Rolling Stock Type	Caboose
Rolling Stock No	D&RGW 01524

SAWYER ALGORITHM PRIORITY

Asbestos Potential Exposure and Priority Level Algorithm

Asbestos Potential Exposure and Prio Asset Numbe		D&RGW 01524
Exposure Area	Interior around furnace	Exterior windows
Asbestos Containing Material	Gray transite boards	Black caulk
• • • • •	CHE-DRGW01524-170721-004 thru	CHE-DRGW01524-170721-007 thru
Sample Number	***=	009 🗆
Size	NA	NA
Quantity	24 SF	36 LF
 MATERIAL CONDITION (MC) 0 =No damage, excellent condition 1 =Very minor damage, no visible debris 2 =Damage is evident, small area 3 =Damage is easily seen, some debris 4 =Damage is widespread, debris is common 5 =Most or all material is damaged, hanging, and / or found as debris throughout the area 	3	2
BUILDING AGE (BA) 1 =>30 years old 0 =15 - 30 years old -1 =<15 years old	1	1
ATERIAL TYPE		
Pipe Covering (PC) 1 =MAG/CAL Silicate -1 =Air Cell / paper	NA	NA
Ceiling Plasters or Fireproofing (CP) -1 =Cementitious (Monocoat) 0 =Standard	NA	NA
1 ="Cotton Candy" texture		
 WATER DAMAGE (WD) 0 =No water damage 1 =Small amount of damage can be seen; damage is localized rather than widespread 2 =Good deal of water damage; widespread 	0	0
ROOF CHARACTERISTICS (RC)	NA	NA
-0.5 =Sloped or Hipped -0.5 =Metal or Concrete 0.5 =Flat or Built-up		
EXPOSED SURFACE AREA (ESA)	4	4
 0 =Material behind a permanent enclosure 2 =Material behind a lay-in ceiling or in open tunnel 4 =Material is exposed 		
	4	4
0 =Totally inaccessible 1 =Can only reach with hands, ie. pipe chase 2 =An open tunnel or above a drop ceiling 3 =Exposed overall, but can't reach, ie. >10' high 4 =Material is out in the open and <10' high		
CTIVITY AND MOVEMENT (A/M) 0 =No occupants enter the area 1 =Area is accessed infrequently 2 =Area is accessed frequently	1	1
VORK ENVIRONMENT (WE)	0.5	0.5
-0.5 =Sedentary 0.5 =Non-sedentary		
OUT AND MECHANICAL VIBRATIONS (SMV) 0.5 =Frequent or Constant -0.5 =No recognizable vibration	0.5	0.5
NR - PLENUM / AIR STREAM (AP) 0 =No air plenum or air flow 1 =Air plenum or air flow exists	1	1
/ELOCITY (if Air Plenum = 1) (VEL) 0.25 =Recognizable by human feeling -0.25 =Non-recognizable by human feeling	0.25	0.25
-0.25 =INDITECOGINEADE by Human reening -0.25 =Constant, steady stream 0.25 =Impact, gusty flow	0.25	0.25
RIABILITY (F)	1	1
 1 =Very hard to crumble under hand pressure 2 = Will crumble under a little hand pressure 3 =Extremely easy to crumble under light pressure 		
SBESTOS CONTENT (ASB) 0 =None <1% 1 =1% to 10% Asbestos 2 =11% to 50% Asbestos 3 =51% to 100% Asbestos	2	1
Exposure Value	31	14.5
-		
	3	

SAWYER ALGORITHM PRIORITY

Asbestos Potential Exposure and Prior

Asbestos Potential Exposure and Prior		
Asset Number	D&RGW 01524	D&RGW 01524
Exposure Area	Inteiror, on water tank	Interior walls and ceiling
Asbestos Containing Material	White coating	White coating
Sample Number	CHE-DRGW01524-170721-010 thru 012	CHE-DRGW01524-170721-019 thru 021□
Size	NA	NA
Quantity	12 SF	972 SF
MATERIAL CONDITION (MC) 0 =No damage, excellent condition 1 =Very minor damage, no visible debris 2 =Damage is evident, small area 3 =Damage is evidespread, debris 4 =Damage is widespread, debris is common 5 =Most or all material is damaged, hanging, and / or found as debris throughout the area	1	1
BUILDING AGE (BA) 1 =>30 years old 0 =15 - 30 years old -1 =<15 years old	1	1
MATERIAL TYPE		
Pipe Covering (PC) 1 =MAG/CAL Silicate -1 =Air Cell / paper	NA	NA
Ceiling Plasters or Fireproofing (CP)	NA	ΝΑ
-1 =Cementitious (Monocoat) 0 =Standard 1 ="Cotton Candy" texture		
WATER DAMAGE (WD)	0	0
0 =No water damage 1 =Small amount of damage can be seen; damage is localized rather than widespread 2 =Good deal of water damage; widespread		
ROOF CHARACTERISTICS (RC)	-0.5	-0.5
-0.5 =Sloped or Hipped -0.5 =Metal or Concrete 0.5 =Flat or Built-up		
EXPOSED SURFACE AREA (ESA)	4	4
 0 =Material behind a permanent enclosure 2 =Material behind a lay-in ceiling or in open tunnel 4 =Material is exposed 		
ACCESSIBILITY (AC)	4	3
0 =Totally inaccessible 1 =Can only reach with hands, ie. pipe chase 2 =An open tunnel or above a drop ceiling 3 =Exposed overall, but can't reach, ie. >10' high 4 =Material is out in the open and <10' high		
ACTIVITY AND MOVEMENT (A/M) 0 =No occupants enter the area	2	1
1 =Area is accessed infrequently 2 =Area is accessed frequently		
WORK ENVIRONMENT (WE) -0.5 =Sedentary	0.5	0.5
0.5 =Non-sedentary		
SOUND AND MECHANICAL VIBRATIONS (SMV) 0.5 =Frequent or Constant -0.5 =No recognizable vibration	0.5	0.5
AIR - PLENUM / AIR STREAM (AP)	1	1
0 =No air plenum or air flow 1 =Air plenum or air flow exists	· · · · · · · · · · · · · · · · · · ·	
VELOCITY (if Air Plenum = 1) (VEL) 0.25 =Recognizable by human feeling -0.25 =Non-recognizable by human feeling	-0.25	0.25
FLOW (if Air Plenum = 1) (FL)	NA	0.25
-0.25 =Constant, steady stream 0.25 =Impact, gusty flow		
FRIABILITY (F) 1 =Very hard to crumble under hand pressure 2 = Will crumble under a little hand pressure 3 =Extremely easy to crumble under light pressure	1	1
ASBESTOS CONTENT (ASB)	1	1
0 =None <1% 1 =1% to 10% Asbestos 2 =11% to 50% Asbestos 3 =51% to 100% Asbestos		
Exposure Value	13.25	12
Poting	4	4
Rating	4	



www.esasite.com

Specializing in environmental services and demolition

July 27th, 2021

Union Pacific Railroad Asbestos Program c/o GHD 3807 South 148th Street Omaha, NE 68144

RE: WY, Cheyenne, Rollingstock FTSX 812, Requested NESHAP Inspection Earth Services & Abatement Project Number: 215WY001

To Whom It May Concern,

Please find our NESHAP report for the above-mentioned requested inspection. Earth Services & Abatement's Joseph Kulm inspected UPRR railcar FTSX 812 for suspect asbestos-, lead-, and PCB-containing materials. The inspection work took place on July 14th, 2021.

No previous reports were provided for review prior to inspection.

Refer to the report for a summary of this inspection, including inspection/lab results, inspection photographs, and schematics.

If you have any questions or need anything else for this project, please do not hesitate to contact us.

Conducted by,

Jospeh Kulm Inspector Earth Services & Abatement

Reviewed by,

Best Syphie

Robert Szynskie Program Director Earth Services & Abatement Robert.szynskie@esasite.com Cell – 720-206-9238

	ŀ	Rolling Stock	x Asbe	estos In	spect	ion Report		
					I	nspection Start Date	07/14/202	21
BUILDING AMERIC/ Inspection T					I	nspection End Date	07/14/202	21
X Initial Inspect	ion	Reinspection	X NES	SHAP Inspec	ction F	Report Date	07/27/202	21
Inspection Co	mpany							
Company Ea	rth Service	es & Abatement		License No	o. <u>166</u>	608		
Address 6700	E 50th Av	/e		City C	Commerce	e City		
				State C	0	Zip 80022		
Inspector Info	rmation	I						
First Name Jos	seph		Las	t Name	Kulm			
License Type	AHERA	License No.	C6LEMQ	A0R3U		License State		
Asset Informa	tion							
Rolling Stock Ty	pe Cat	oose						_
Rolling Stock No	FTS	SX 812		Car Name	FT	SX 812		_
Yard Name	Che	eyenne		Subdivision	Ur	nknown		_
Address	Eas	t Union Pacific Ave.		Mile Post	Ur	nknown		_
City	Che	eyenne		Latitude	41	.129563°		_
State	WY			Longitude	-10	04.815232°		_
Zip Code	820	01						
Key Contacts								
Name		Phone Number	Comp	any		Role/Responsib	ility	
Kulm,Joseph		303-991-1280	Earth	Services & A	Abatemer	nt Inspector		
Szynskie,Robert		303-991-1280	Earth	Services & A	Abatemer	nt Program Directo	or	
Dickens,Edgar		307-214-3545	UPRR			Local Contact		
Inspection Lin	nitation	S						_
was limited by t	he use of essible. If	hand-tools and some additional suspect ma	additiona	I suspect ma	aterials m	ailcar. However, the ins ay be present in areas not been sampled here	not	

Sample DateSample IDDescriptionLocationAsbestos Result2ACM CategoryFriableQuantityA Quantity07/14/2021CHE-FTSX812-140721-0 01 thru 003Black rubberized flooring and clear masticInterior floor throughoutNot DetectedN/AN/A270 sq. ft.N/A07/14/2021CHE-FTSX812-140721-0 04 thru 006Gray transiteInterior walls, around former furnace15%, ChrysotileCategory INo24 sq. ft.307/14/2021CHE-FTSX812-140721-0 07 thru 009White sealantRemoved window openingNot DetectedN/AN/A16 LFN/A07/14/2021CHE-FTSX812-140721-0 07 thru 009White sealantImage: Che complexity openingNotImage: Che complexity openingNotImage: Che complexity openingN/AImage: Che complexity openingN/A07/14/2021CHE-FTSX812-140721-0 07 thru 009White sealantRemoved window openingNotImage: Che complexity openingN/AImage: Che complexity openingN/AImage: Che complexity openingImage: Che complexity opening07/14/2021CHE-FTSX812-140721-0White sealantImage: Che complexity openingNotImage: Che complexity openingImage: Che complexity openingN/AImage: Che complexity openingImage: Che complexity opening07/14/2021CHE-FTSX812-140721-0White sealantImage: Che complexity openingNotImage: Che complexity openingImage: Che complexity openingImage: Che complexity openingImage: Che compl			Rolling Sto	ock Asbestos Inspect	ion Rep		Report Date Stock Type	07/27/2021 Caboose	
ACM Present ¹ Yes Total Number of ACM Components. ¹ 1 Total Number of Materials Containing <= 1% Asbestos. 1 Notes	BUILDING	AMERICA				Rollin	g Stock No	FTSX 812	
Total Number of Materials Containing <= 1% Asbestos.									
Notes Please note the material descriptions herein are more descriptive than that on the chain-of-custody in order to provide distinguishing material details. The insulation identified in samples CHE-FTSX812-140721-013 thru 015 is not considered a suspect material for asbestos. Asbestos Samples Sample ID Description Location Asbestos ACM CHE Friable Quantity NA 7/14/2021 CHE-FTSX812-140721-0 Black rubberized flooring and clear mastic Interior floor throughout Not N/A N/A 270 sq. ft. N/A 7/14/2021 CHE-FTSX812-140721-0 Gray transite Interior walls, around former furnace 15%, Chrysotile Category I No 24 sq. ft. 3 7/14/2021 CHE-FTSX812-140721-0 White sealant Removed window opening Not Detected N/A N/A 16 LF N/A 7/14/2021 CHE-FTSX812-140721-0 White sealant Removed window opening Not Detected N/A N/A 16 LF N/A CHE-FTSX812-140721-0 White sealant Removed window opening Not Detected N/A <td></td> <td></td> <td></td> <td>of ACM Components.¹ 1</td> <td></td> <td>_</td> <td></td> <td></td> <td></td>				of ACM Components. ¹ 1		_			
details. The insulation identified in samples CHE-FTSX812-140721-013 thru 015 is not considered a suspect material for asbestos. Asbestos Samples Sample Sample ID Description Location Asbestos Result ² ACM Category Friable Quantity MA 7/14/2021 CHE-FTSX812-140721-0 01 thru 003 Black rubberized flooring and clear mastic Interior floor throughout Not Detected N/A N/A 270 sq. ft. N/A 7/14/2021 CHE-FTSX812-140721-0 04 thru 006 Gray transite Interior walls, around former furnace 15%, Chrysotile Category I No 24 sq. ft. 3 7/14/2021 CHE-FTSX812-140721-0 07 thru 009 White sealant Removed window opening Not Detected N/A N/A 16 LF N/A CHE-FTSX812-140721-0 07 thru 009 White sealant Removed window opening Not Not N/A N/A 16 LF N/A			g <= 1% Asbestos.	1					
Asbestos Samples Sample Date Sample ID Description Location Asbestos Result ² ACM Category Friable Quantity MA A 7/14/2021 CHE-FTSX812-140721-0 01 thru 003 Black rubberized flooring and clear mastic Interior floor throughout Not Detected N/A N/A 270 sq. ft. N/A 7/14/2021 CHE-FTSX812-140721-0 04 thru 006 Gray transite Interior walls, around former furnace 15%, Chrysotile Category I No 24 sq. ft. 3 7/14/2021 CHE-FTSX812-140721-0 07 thru 009 White sealant Removed window opening Not Detected N/A N/A 16 LF N/A CHE-FTSX812-140721-0 07 thru 009 White sealant Removed window opening Not Detected N/A N/A 16 LF N/A CHE-FTSX812-140721-0 White sealant Removed window opening Not N/A N/A 16 LF N/A									
Sample DateSample IDDescriptionLocationAsbestos Result2ACM CategoryFriableQuantityA Quantity7/14/2021CHE-FTSX812-140721-0 01 thru 003Black rubberized flooring and clear masticInterior floor throughoutNot DetectedN/AN/A270 sq. ft.N/A7/14/2021CHE-FTSX812-140721-0 04 thru 006Gray transiteInterior walls, around former furnace15%, ChrysotileCategory INo24 sq. ft.37/14/2021CHE-FTSX812-140721-0 07 thru 009White sealantRemoved window openingNot DetectedN/AN/A16 LFN/A7/14/2021CHE-FTSX812-140721-0 07 thru 009White sealantImage: Che complexity openingNot DetectedN/A16 LFN/A			•]
7/14/2021CHE-FTSX812-140721-0 01 thru 003flooring and clear masticInterior floor throughoutNot DetectedN/AN/A270 sq. ft.N/A7/14/2021CHE-FTSX812-140721-0 04 thru 006Gray transiteInterior walls, around former furnace15%, ChrysotileCategory INo24 sq. ft.37/14/2021CHE-FTSX812-140721-0 07 thru 009White sealantRemoved window openingNot DetectedN/AN/A16 LFN/ACHE-FTSX812-140721-0 CHE-FTSX812-140721-0White sealantInterior walls, around former furnaceNot DetectedN/AN/A16 LFN/A		Sample ID	Description	Location			Friable	Quantity	Modified Algorithm Number
7/14/2021 04 thru 006 Gray transite furnace Chrysotile Category I No 24 sq. ft. 3 7/14/2021 CHE-FTSX812-140721-0 07 thru 009 White sealant Removed window opening Not Detected N/A N/A 16 LF N/A CHE-FTSX812-140721-0 CHE-FTSX812-140721-0 Not Not Not N/A 16 LF N/A	7/14/2021		flooring and clear	Interior floor throughout		N/A	N/A	270 sq. ft.	N/A
7/14/2021 07 thru 009 White sealant Removed window opening Detected N/A N/A 16 LF N/A CHE-FTSX812-140721-0 Not	7/14/2021		Gray transite		· ·	Category I	No	24 sq. ft.	3
	7/14/2021		White sealant	Removed window opening		N/A	N/A	16 LF	N/A
	7/14/2021		White sealant	Exterior door windows		N/A	N/A	14 LF	N/A
CHE-FTSX812-140721-0Interior, between exterior0.42%,N/AN/A7/14/202113 thru 015Black coatingshell and walls and ceilingChrysotileN/AN/A680 sq. ft.N/A	7/14/2021		Black coating		,	N/A	N/A	680 sq. ft.	N/A
7/14/2021 CHE-FTSX812-140721-0 16 thru 018 Black break pads Exterior wheels Detected N/A N/A 4 sq. ft.	7/14/2021		Black break pads	Exterior wheels		N/A	N/A	4 sq. ft.	N/A

1 "ACM Present" is defined as material with >1% asbestos, except in California, where Asbestos-Containing Construction Material (ACCM) is defined as >0.1% asbestos.

2 For samples collected in sets, only the highest result is reported. Some of the collected samples may not have been analyzed. See the attached laboratory report for additional details.

3 "Lead Present" and "Positive" is defined as paint with $\ge 0.5\%$ lead.

4 "PCBs Present" and "Positive" is defined as caulk with \geq 50 ppm PCBs.

07/14/2021CHE-FTSX812-140721-001LWhiteInterior1.6 %Fair07/14/2021CHE-FTSX812-140721-002LYellowExterior6.8 %Poor07/14/2021CHE-FTSX812-140721-003LGreen/Red/Black (layered)Handrails0.63 %Poor	Lead-Base Lead Present ³ Notes	d Paint Results Yes Total Num	nber of Positive Components. ³ 3			
DateSample IDDescriptionLocationResultConditi07/14/2021CHE-FTSX812-140721-001LWhiteInterior1.6 %Fair07/14/2021CHE-FTSX812-140721-002LYellowExterior6.8 %Poor07/14/2021CHE-FTSX812-140721-003LGreen/Red/Black (layered)Handrails0.63 %Poor07/14/2021CHE-FTSX812-140721-004LBlackExterior undercarriage0.29 %PoorPolychlorinted Biphenyls ResultsPCBs Present ⁴ No Suspect Materials Total Number of Positive Components. ⁴ 0SupportSupportNotesNo Suspect Materials Total Number of Positive Components. ⁴ 0SupportSupportMold Results		Paint Samples				
07/14/2021 CHE-FTSX812-140721-002L Yellow Exterior 6.8 % Poor 07/14/2021 CHE-FTSX812-140721-003L Green/Red/Black (layered) Handrails 0.63 % Poor 07/14/2021 CHE-FTSX812-140721-004L Black Exterior undercarriage 0.29 % Poor Polychlorinated Biphenyls Results PCBs Present ⁴ No Suspect Materials Total Number of Positive Components. ⁴ 0 0 <th></th> <th>Sample ID</th> <th>Description</th> <th>Location</th> <th></th> <th>Condition</th>		Sample ID	Description	Location		Condition
07/14/2021 CHE-FTSX812-140721-003L Green/Red/Black (layered) Handrails 0.63 % Poor 07/14/2021 CHE-FTSX812-140721-004L Black Exterior undercarriage 0.29 % Poor Polychlorinated Biphenyls Results PCBs Present ⁴ No Suspect Materials Total Number of Positive Components. ⁴ 0 0 0 Notes Mold Results	07/14/2021	CHE-FTSX812-140721-001L	White	Interior	1.6 %	Fair
07/14/2021 CHE-FTSX812-140721-004L Black Exterior undercarriage 0.29 % Poor POlychlorinated Biphenyls Results PCBs Present ⁴ No Suspect Materials Total Number of Positive Components. ⁴ 0	07/14/2021	CHE-FTSX812-140721-002L	Yellow	Exterior	6.8 %	Poor
Polychlorinated Biphenyls Results PCBs Present ⁴ No Suspect Materials Total Number of Positive Components. ⁴ 0 Notes	07/14/2021	CHE-FTSX812-140721-003L	Green/Red/Black (layered)	Handrails	0.63 %	Poor
PCBs Present ⁴ No Suspect Materials Total Number of Positive Components. ⁴ 0	07/1//2021	CHE-FTSX812-140721-004L	Black	Exterior undercarriage	0.29 %	Poor
	Polychlorir PCBs Present ⁴		nber of Positive Components. ⁴ 0			
	Polychlorin PCBs Present ⁴ Notes	No Suspect Materials Total Num	nber of Positive Components. ⁴ 0			
	Polychlorin PCBs Present ⁴ Notes	No Suspect Materials Total Num	nber of Positive Components. ⁴ 0			



Rolling Stock Asbestos Inspection Report Asset Photos Report Date 07/2

BUILDING AMERICA"



Train ID Marking



View of railcar, looking south-southeast

Report Date	07/27/2021
Rolling Stock Type	Caboose
Rolling Stock No	FTSX 812



View of railcar, looking north-northeast



View of railcar interior



Rolling Stock Asbestos Inspection Report Sample Photos Report Date 07/27/2021

BUILDING AMERICA**



CHE-FTSX812-140721-001 thru 003, Asbestos Not Detected, Black rubberized flooring and clear mastic



Rolling Stock Type

Caboose

Rolling Stock No FTSX 812



CHE-FTSX812-140721-001 thru 003, Asbestos Not Detected, Black rubberized flooring and clear mastic



CHE-FTSX812-140721-004 thru 006, 15% Asbestos, Gray transite



CHE-FTSX812-140721-007 thru 009, Asbestos Not Detected, White sealant

CHE-FTSX812-140721-004 thru 006, 15% Asbestos, Gray transite



CHE-FTSX812-140721-007 thru 009, Asbestos Not Detected, White sealant



Rolling Stock Asbestos Inspection Report Sample Photos Report Date 07/27/2021

BUILDING AMERICA**



CHE-FTSX812-140721-010 thru 012, Asbestos Not Detected, White sealant



CHE-FTSX812-140721-013 thru 015, 0.42% Asbestos, Black coating



CHE-FTSX812-140721-016 thru 018, Asbestos Not Detected, Black break pads

Rolling Stock Type

Caboose

Rolling Stock No FTSX 812



CHE-FTSX812-140721-010 thru 012, Asbestos Not Detected, White sealant



CHE-FTSX812-140721-013 thru 015, 0.42% Asbestos, Black coating



CHE-FTSX812-140721-016 thru 018, Asbestos Not Detected, Black break pads



Rolling Stock Asbestos Inspection Report Sample Photos Report Date 07/27/2021

BUILDING AMERICA"



CHE-FTSX812-140721-001L, 1.6% Lead, White



CHE-FTSX812-140721-002L, 6.8% Lead, Yellow



CHE-FTSX812-140721-003L, 0.63% Lead, Green/Red/Black (layered)

Rolling Stock Type

Caboose

Rolling Stock No FTSX 812



CHE-FTSX812-140721-001L, 1.6% Lead, White



CHE-FTSX812-140721-002L, 6.8% Lead, Yellow



CHE-FTSX812-140721-003L, 0.63% Lead, Green/Red/Black (layered)



Rolling Stock Asbestos Inspection Report Sample Photos Report Date 07/27/2021



CHE-FTSX812-140721-004L, 0.29% Lead, Black

Rolling Stock Type Caboose

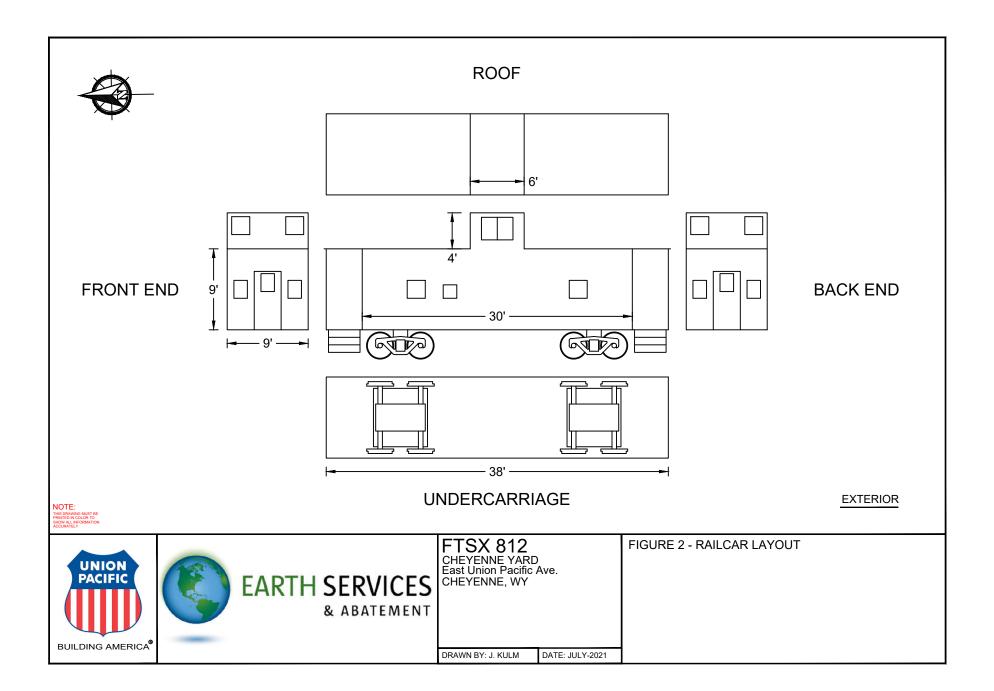
Rolling Stock No FTSX 812

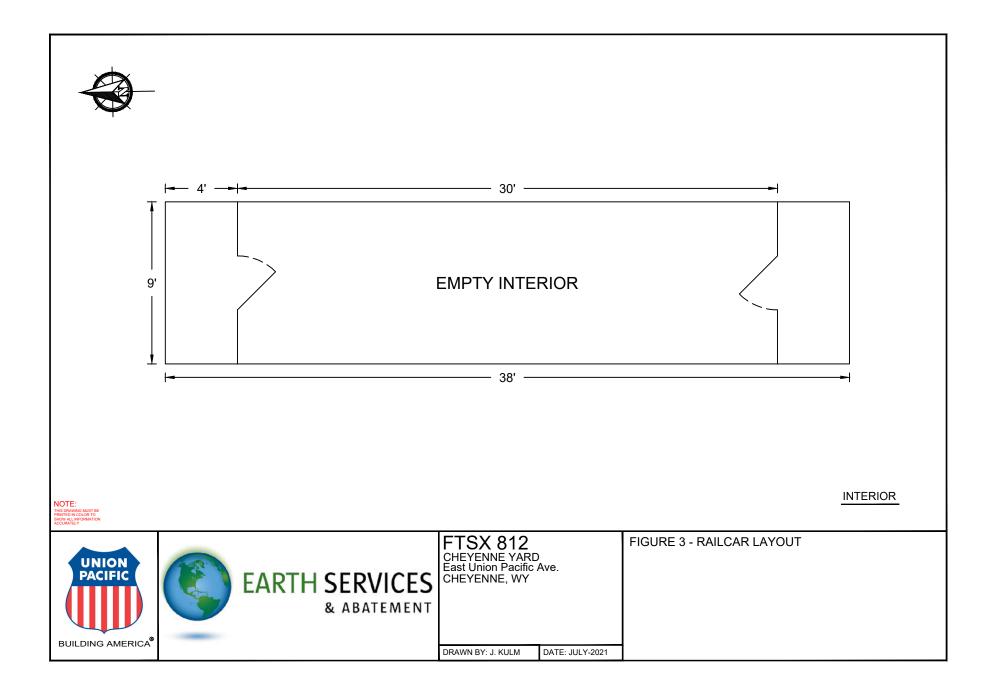
CHE-FTSX812-140721-004L, 0.29% Lead, Black

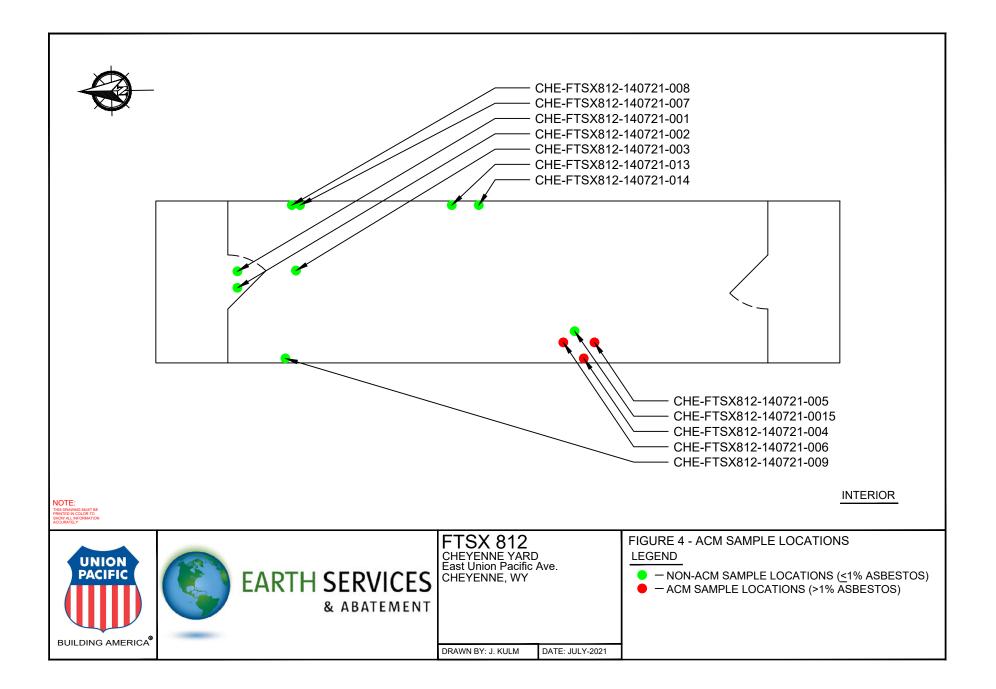
Appendix 1 - Figures

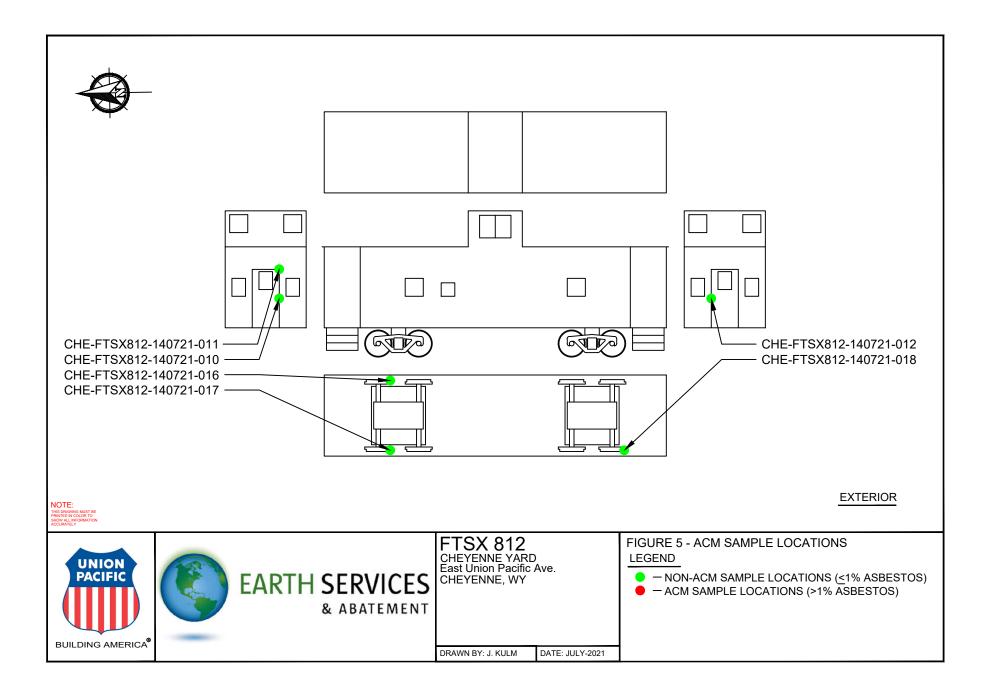
Report Date07/27/2021Rolling Stock TypeCabooseRolling Stock NoFTSX 812

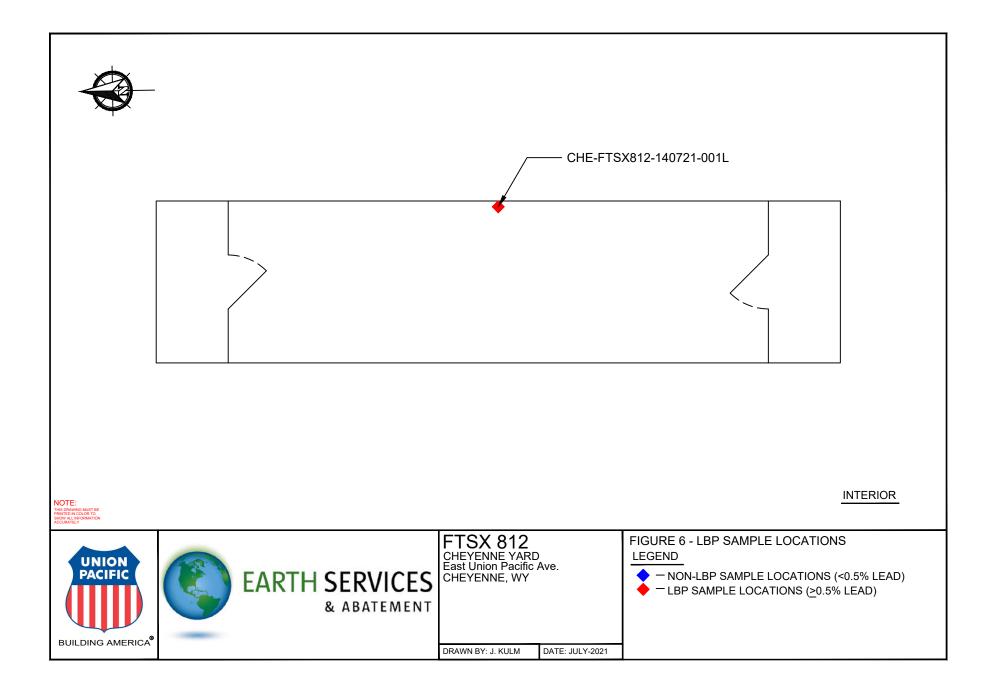


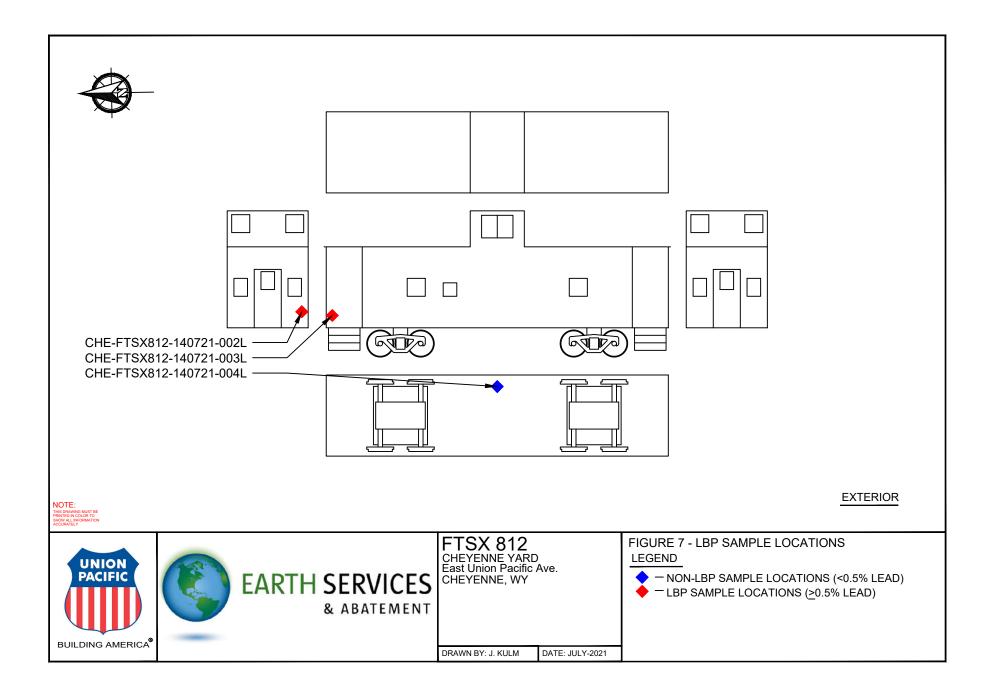


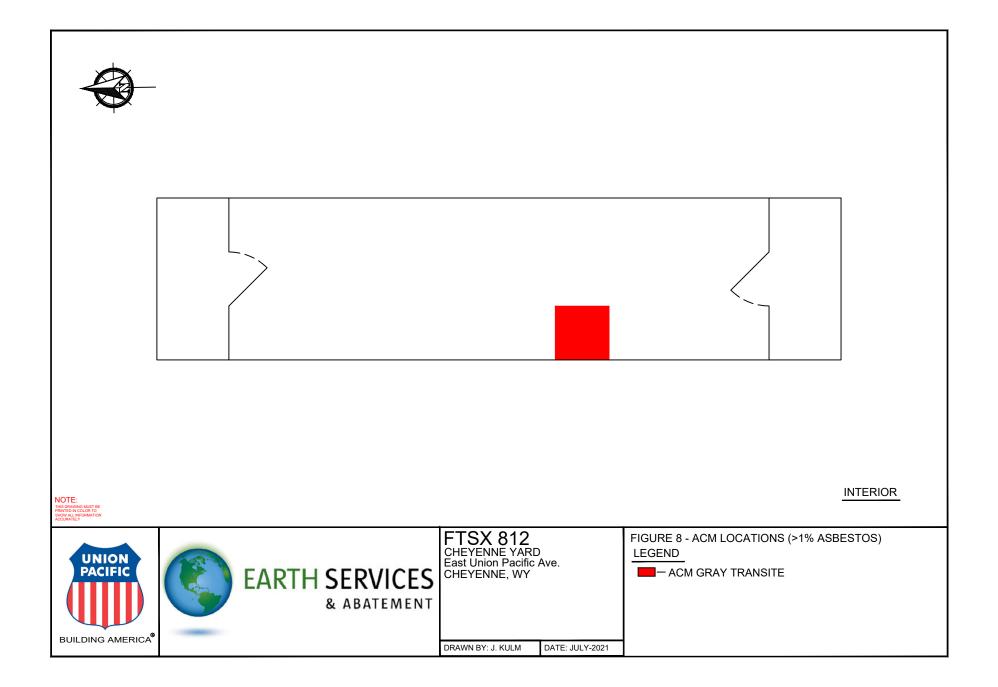












Appendix 2 - Lab Reports and Chain of Custody Receipts

Report Date	07/27/2021
Rolling Stock Type	Caboose
Rolling Stock No	FTSX 812

3113 Red Bluff Road, Pasadena, TX 77503 Phone: (713) 290-0223 - Fax: (713) 290-0248 *J3Resources.com*





Bulk Asbestos Fiber Analysis by Polarized Light Microscopy (PLM) EPA 600/M4-82-020; 600/R-93/116 - Point Count Method

Joseph Kulm Earth Services & Abatement, Inc. 6700 E. 50th Avenue Commerce City CO 80022

Arnold Flores

Analyst

NVLAP Lab Code: 600120-0

 Order #:
 JH21129233

 Project #:
 215WY001

 Date Received:
 20-Jul-2021

 Date Analyzed:
 22-Jul-2021

 Date Reported:
 23-Jul-2021

FTSX-812 WY Rollingstock Inspections

Sample ID #	Sample Description	Asbestos Constituents	Non-Asbestos Constituents	
CHE-FTSX812- 140721-001	LAYER 1 Flooring, Black, Homogeneous	None Detected	Synthetic Fiber Non-Fibrous Material	5% 95%
	LAYER 2 Mastic, Clear, Homogeneous	None Detected	Non-Fibrous Material	100%
CHE-FTSX812- 140721-002	LAYER 1 Flooring, Black, Homogeneous	None Detected	Synthetic Fiber Non-Fibrous Material	5% 95%
	LAYER 2 Mastic, Clear, Homogeneous	None Detected	Non-Fibrous Material	100%
CHE-FTSX812- 140721-003	LAYER 1 Flooring, Black, Homogeneous	None Detected	Synthetic Fiber Non-Fibrous Material	5% 95%
	LAYER 2 Mastic, Clear, Homogeneous	None Detected	Non-Fibrous Material	100%
CHE-FTSX812- 140721-004	Transite, Gray, Homogeneous	Chrysotile 15%	Non-Fibrous Material	85%
CHE-FTSX812- 140721-005	Transite, *Not analyzed per client req	juest		
CHE-FTSX812- 140721-006	Transite, *Not analyzed per client req	luest		
CHE-FTSX812- 140721-007	Sealant, White, Homogeneous	None Detected	Non-Fibrous Material	100%
CHE-FTSX812- 140721-008	Sealant, White, Homogeneous	None Detected	Non-Fibrous Material	100%
CHE-FTSX812- 140721-009	Sealant, White, Homogeneous	None Detected	Non-Fibrous Material	100%

Scott Ward, Ph.D. Lab Director

TDSHS License: 30-0457

Page 1 of 3

These results apply to the sample(s) as received. This report is for the exclusive use of the addressed client and shall not be reproduced except in full, without written approval by Eurofins J3 Resources, Inc. (EJ3). Samples are analyzed according to the methods listed above and are subject to the inherent limitations of PLM and interference of matrix components. Reporting limit for the above method is a function of the quantity of sample analyzed, matrix interference, sample preparation, fiber size, and distribution. Asbestos may be detected in concentrations of <1% by area if sufficient material is analyzed. EJ3 recommends TEM confirmation of soils, vermiculite and non-friable organically bound materials (NOB) reported as None Detected or < 1% Asbestos by PLM. All samples received in good condition unless otherwise noted. This report shall not be used to claim product approval, certification, or endorsement by NVLAP, NIST, or any agency of the federal government.

AIHA-LAP, LLC Lab ID: 157714

3113 Red Bluff Road, Pasadena, TX 77503 Phone: (713) 290-0223 - Fax: (713) 290-0248 J3Resources.com



Bulk Asbestos Fiber Analysis by Polarized Light Microscopy (PLM) EPA 600/M4-82-020; 600/R-93/116 - Point Count Method

Joseph Kulm Earth Services & Abatement, Inc. 6700 E. 50th Avenue Commerce City CO 80022

Order #: JH21129233 Project #: 215WY001 **Date Received:** 20-Jul-2021 Date Analyzed: 22-Jul-2021 **Date Reported:** 23-Jul-2021

FTSX-812 WY Rollingstock Inspections

Sample ID #	Sample Description	Asbestos Constituents	6	Non-Asbestos Constituents	
CHE-FTSX812- 140721-010	Sealant, White, Homogeneous	None Detected		Non-Fibrous Material	100%
CHE-FTSX812- 140721-011	Sealant, White, Homogeneous	None Detected	d Non-Fibrous Material		100%
CHE-FTSX812- 140721-012	Sealant, White, Homogeneous	None Detected		Non-Fibrous Material	100%
CHE-FTSX812- 140721-013	LAYER 1 Coating, Black, Homogeneous Original PLM Result: <1% Chrysotile	Chrysotile	0.37%	Mineral Wool Non-Fibrous Material	5% 94.63%
400 pt. POINT COUNT	LAYER 2 Insulation, Yellow, Homogeneous	None Detected us		Mineral Wool Non-Fibrous Material	98% 2%
	Gravimetric Reduction F	Prep - Layer 1			
CHE-FTSX812- 140721-014	LAYER 1 Coating, Black, Homogeneous Original PLM Result: <1% Chrysotile	Chrysotile	0.42%	Mineral Wool Non-Fibrous Material	5% 94.58%
400 pt. POINT COUNT	DINT COUNT LAYER 2 Insulation, Yellow, Homogeneous			Mineral Wool Non-Fibrous Material	98% 2%
	Gravimetric Reduction F	Prep - Layer 1			
CHE-FTSX812- 140721-015	LAYER 1 Coating, Black, Homogeneous Original PLM Result: <1% Chrysotile	Chrysotile	0.38%	Mineral Wool Non-Fibrous Material	5% 94.62%
400 pt. POINT COUNT	LAYER 2 Insulation, Yellow, Homogeneous	None Detected		Mineral Wool Non-Fibrous Material	98% 2%
	Gravimetric Reduction F	Prep - Layer 1			

Lab Director

Page 2 of 3

Arnold Flores

Analyst

NVLAP Lab Code: 600120-0

Scott Ward, Ph.D.

TDSHS License: 30-0457

These results apply to the sample(s) as received. This report is for the exclusive use of the addressed client and shall not be reproduced except in full, without written approval by Eurofins J3 Resources, Inc. (EJ3). Samples are analyzed according to the methods listed above and are subject to the inherent limitations of PLM and interference of matrix components. Reporting limit for the above method is a function of the quantity of sample analyzed, matrix interference, sample preparation, fiber size, and distribution. Asbestos may be detected in concentrations of <1% by area if sufficient material is analyzed. EJ3 recommends TEM confirmation of soils, verniculite and non-friable organically bound materials (NOB) reported as None Detected or < 1% Asbestos by PLM. All samples received in good condition unless otherwise noted. This report shall not be used to claim product approval, certification, or endorsement by NVLAP, NIST, or any agency of the federal government.

AIHA-LAP, LLC Lab ID: 157714

3113 Red Bluff Road, Pasadena, TX 77503 Phone: (713) 290-0223 - Fax: (713) 290-0248 *J3Resources.com*



Bulk Asbestos Fiber Analysis by Polarized Light Microscopy (PLM) EPA 600/M4-82-020; 600/R-93/116 - Point Count Method

Joseph Kulm Earth Services & Abatement, Inc. 6700 E. 50th Avenue Commerce City CO 80022
 Order #:
 JH21129233

 Project #:
 215WY001

 Date Received:
 20-Jul-2021

 Date Analyzed:
 22-Jul-2021

 Date Reported:
 23-Jul-2021

FTSX-812 WY Rollingstock Inspections

Sample ID #	Sample Description	Asbestos Constituents	Non-Asbestos Constituents	
CHE-FTSX812- 140721-016	Brakes, Black, Homogeneous	None Detected	Mineral Wool Non-Fibrous Material	3% 97%
CHE-FTSX812- 140721-017	Brakes, Black, Homogeneous	None Detected	Mineral Wool Non-Fibrous Material	3% 97%
CHE-FTSX812- 140721-018	Brakes, Black, Homogeneous	None Detected	Mineral Wool Non-Fibrous Material	3% 97%

Scott Ward, Ph.D. Lab Director

Arnold Flores

Analyst

These results apply to the sample(s) as received. This report is for the exclusive use of the addressed client and shall not be reproduced except in full, without written approval by Eurofins J3 Resources, Inc. (EJ3). Samples are analyzed according to the methods listed above and are subject to the inherent limitations of PLM and interference of matrix components. Reporting limit for the above method is a function of the quantity of sample analyzed, matrix interference, sample preparation, fiber size, and distribution. Asbestos may be detected in concentrations of <1% by area if sufficient material is analyzed. EJ3 recommends TEM confirmation of soils, verniculite and non-friable organically bound materials (NOB) reported as None Detected or < 1% Asbestos by PLM. All samples received in good condition unless otherwise noted. This report shall not be used to claim product approval, certification, or endorsement by NVLAP, NIST, or any agency of the federal government.

Revision #v7/MF Revision Date: 3/09/2020

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J3 Order # (140 Jss Soniy)

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J3 Resources

Open Lab Fee

Submitter Name: _					Bill to:	Same				
Company: _					Address					
Address:	6700 E 50th Ave									
_					City/State	e:		Zip:		
City/State: Com	merce City,	со	Zip: ⁸	0022	1 -	15WY001				
<u>ony/otate</u> .				Project I		ion				
Project Name: WY R	ollinastock In	spectio	ons		Proje	ct Manager: Ama	Inda Woza	ıb		
Project #: 215WY00					Telep	hone – Office/Ce	402-578	-6858		
Reports - Email Addr	ess: amanda	wozał	@esasite.c	com, josept	n.kulm@es	asite.com, robert	.szynskie(Desasite.cor	n	
Invoice - Email Addre							ail: 🖸	Verbal: 🗋		
Special Instructions:	400 noint-coi	unt san	noles with d	etections u	in to 5% as	shestos with GR	as needed			
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DIN DUI						TEN 14/	TEM E		TEM/PLM	
PLM - Bulk EPA 600/R-93/116	PCM -		TEM - A		V - Bulk	TEM - Water	TEM - D	Soll/	O ASTM 7521-TEM (+/-)	
 Visual Estimation (<1 400 Point Count 0.25 1,000 Point Count 0.1 Gravimetric Reduction Matrix Reduction (+/-) NIOSH 9002 OSHA ID-191 	.25% O ISO 8672 O ASTM D6281 O Ma 0.1% O OSHA ID-160 O ISO 10312 Re ction O ISO 13794 O Qu		102 Redu 281 O Matr 2 Redu 2 O Qual	uction (<1%) ix uction (+/-) litative (+/-) op Mount	Drinking Water o >10 µm fibers o ≥0.5 µm fibers O EPA 100.2 Effluent / WW Received on ice: o Yes o No Temp:	Microvad ASTM D Wipe 600/J-93 Carpet - Bulk Dus	Microvac O ASTM 752 ASTM D6480 O CARB 435 Wipe 600/J-93/167 Carpet - EPA O Vermiculite O Vermiculite			
			METALS	5			SIL	ICA/PAR	TICULATES	
Flame A	٩	Gr	aphite Furna	ace AA -		ICP	X-Ra	y Diffractio	n / Gravimetric	
LEAD O Lead in Paint – SW846 7420/3050B O Drinking Water – EPA 200.9 O Lead in Air – NIOSH 7082 O Wastewater – SW846-7421 O Lead in Wipes – SW846 7420/3050B O Soil/Sludge – SW846-7421 O Lead in Soil – SW846 7420/3050B O Air – NIOSH 7105 O TCLP – SW846-1311/6010B O Air – NIOSH 7105			846-7421 346-7421	O Elements in Air – NIOSH 7300 O Respirable Crystalline Silica O Wipe/Soil – SW846-6010B NIOSH 7500 / OSHA 142 O Effluent – SW846-6010B O NIOSH 0500 – Total Particulates O Welding Fume – NIOSH 7300M NIOSH 0600 – Respirable Particulates						
Total Number of	Samples	Subm	nitted: 18		Positive	e Stop: 🔳	YES			
				Sigr	natures					
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Project Name WY Rollingstock Inspections

Project Number 215WY001 - FTS

SAMPLE IDENTIFICATION

Page ____ of ____

J3 Resources

SAMPLE NUMBER	SAMPLE LOCATION / MATERIAL	VOLUME/CONDITION
CHE-FTSX812-140721-001	Black rubberized flooring	
CHE-FTSX812-140721-002	Int. floor throughout	
CHE-FTSX812-140721-003		
CHE-FTSX812-140721-004	Gray transite	
CHE-FTSX812-140721-005	Int. former furnace location	
CHE-FTSX812-140721-006		
CHE-FTSX812-140721-007	White sealant	
CHE-FTSX812-140721-008	Removed Windows	
CHE-FTSX812-140721-009		
CHE-FTSX812-140721-010	White sealant	
CHE-FTSX812-140721-011	Ext. door windows	
CHE-FTSX812-140721-012		
CHE-FTSX812-140721-013	Black coating	
CHE-FTSX812-140721-014	Interior walls and ceiling	
CHE-FTSX812-140721-015		
CHE-FTSX812-140721-016	Black brakes	
CHE-FTSX812-140721-017	Ext. car wheels	
CHE-FTSX812-140721-018		

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J3 Resources

Lead in Paint Performed by Flame AA - USEPA SW846 7420/3050B (Mod.)

Amanda Wozab Earth Services & Abatement, Inc. 6700 E. 50th Avenue Commerce City, CO 80022

Order #: JP211028595 **Project #:** 215WY001 **Receipt Date:** 21-Jul-2021 **Analysis Date:** 22-Jul-2021 **Report Date:** 23-Jul-2021 WY Rollingstock Inspections-FTSX 812

LEAD LEAD **SAMPLE** PAINT **CONCENTRATION CONCENTRATION** ID **COLOR** (mg/kg) (%) CHE-FTSX812-140721-001L White 16000 1.6% CHE-FTSX812-140721-002L Yellow 68000 6.8% CHE-FTSX812-140721-003L **Green/Red/Black** 6300 0.63% CHE-FTSX812-140721-004L Black 2900 0.29%

Reporting Limit = 50.0 mg/kg N/A = Not Applicable *INS* = *Insufficient Sample Weight NS* = *Not Submitted*

Analyst: Shervin Aghaabbasi

Scott Ward, Ph.D. Lab Director

This report relates only to the samples submitted. The analysis has been conducted according to the method(s) listed above. Blank corrections are not applied to data unless requested by the customer. This report is for the exclusive use of the addressed customer and shall not be reproduced except in full without written approval by Eurofins J3 Resources, Inc. (EJ3). EJ3 is an EPA NLLAP recognized lab by the AIHA-LAP, LLC ELLAP (Lab ID: 157714). Unless otherwise noted, all quality control samples performed within specifications established by the laboratory. The estimated accuracy is solely based on recovery data from internal laboratory control samples at the 95% confidence interval of the level of concern, derived from a 287 mg/kg lead in paint matrix reference material. The estimated accuracy does not account for uncertainty associated with the sampling process. Accuracy = +/-9%

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J3 Resources

🗌 Open La	ab Fee			28		95	only)			1.2		
Submitter Name:	Joseph Kulm	1				Bill to:	Same					
Company:	Earth Servic	Earth Services & Abatement, Ilc				Address:	Address:					
Address:	6700 E 50th	6700 E 50th Ave				1						
						City/State	 :		Zip:			
City/State: Col	mmerce City ,	со	Zin	8002	2	PO #: 2						
			P			nformat						
Project Name: WY	Rollingstock Ir	spection	ons			Proje	ct Manager: Am	anda Woza	ıb			
Project #: 215WY0						Telep	hone – Office/Ce	ell 402-578	-6858	B		
Reports - Email Ade	dress: amanda	a.woza	b@esasit	e.com,	, josepł	n.kulm@es	asite.com, rober	t.szynskie@	Desa	site.com		
Invoice - Email Add	ress: same					Noti	fication By: En	nail: 🗖	Verb	bal:		
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PLM - Bulk	PCM	- Аіг	TEM	- Air	TE	V - Bulk	TEM - Water	TEM - C)ust		I/PLM hiculite/Ore	
EPA 600/R-93/116 NIOSH 7400 A Visual Estimation (<1%)		O ASTM D6281 O Matrix O ISO 10312 Redu ○ ISO 13794 O Quali		uction (<1%) ix uction (+/-) litative (+/-) op Mount	 ○ EPA 100.2 Drinking Water >10 µm fibers ≥ 0.5 µm fibers ○ EPA 100.2 Effluent / WW Received on ice: ○ Yes ○ No Temp: 		c 96480 9/167 EPA st	755 O ASTM 7521-TEM (O ASTM 7521-TEM (O CARB 435-Modifie O Soil – PLM Only (+ O Vermiculite - TEM (O Vermiculite-Cincin) 167 O Vermiculite - TEM (O Vermiculite-Cincin)				
			META	LS				SIL	ICA	PARTIC	ULATES	
Flame	AA	G	raphite Fu		AA -		ICP	X-Ra	y Difi	fraction / G	iravimetric	
Image PA LEAD Q Lead in Paint – SW846 7420/3050B O Lead in Air – NIOSH 7082 O Lead in Wipes – SW846 7420/3050B O Lead in Soil – SW846 7420/3050B O Lead in Soil – SW846 7420/3050B O Air – NIOSH 7105 O TCLP – SW846-1311/6010B			O Elements in Air – NIOSH 7300 O RespirableCrystallineSilica O Wipe/Soil – SW846-6010B NIOSH 7500 / OSHA 142 O Effluent – SW846-6010B O NIOSH 0500 – Total Particulates O Welding Fume – NIOSH 7300M NIOSH 0600 – Respirable Particulates					iculates				
Total Number o	of Samples	Subn	nitted:	4		Positive	e Stop:	YES		NO		
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**TAT's are in Business Days rather than Hours (i.e.1 Day TAT = End of Next Business Day)

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Project Name WY Rollingstock Inspections

Project Number 215WY001 - FTS

SAMPLE IDENTIFICATION

Page ____ of ____

J3 Resources

SAMPLE NUMBER	SAMPLE LOCATION / MATERIAL	VOLUME/CONDITION
CHE-FTSX812-140721-001L	White	·····
	Int.	
CHE-FTSX812-140721-002L	Yellow	
	Ext.	
CHE-FTSX812-140721-003L	Green/Red/Black	
	Handrails	
CHE-FTSX812-140721-004L	Black	
,	Undercarriage	
i in an		· · · ·
Alternative		
	· · · · · · · · · · · · · · · · · · ·	
Comments/Special Instructions:		

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Appendix 3 - Modified Sawyer Algorithm

Report Date	07/27/2021
Rolling Stock Type	Caboose
Rolling Stock No	FTSX 812

SAWYER ALGORITHM PRIORITY

Asbestos Potential Exposure and Priority Level Algorithm Asset Number FTSX 812

Asset Number	FTSX 812
Exposure Area	Interior walls, around former furnace
•	
Asbestos Containing Material	Gray transite
Sample Number	CHE-FTSX812-140721-004 thru 006
Size	NA
Quantity	24 SF
ATERIAL CONDITION (MC)	2
 0 =No damage, excellent condition 1 =Very minor damage, no visible debris 2 =Damage is evident, small area 3 =Damage is easily seen, some debris 4 =Damage is widespread, debris is common 5 =Most or all material is damaged, hanging, and / or found as debris throughout the area 	
UILDING AGE (BA)	1
1 =>30 years old	·
0 =15 - 30 years old	
-1 =<15 years old	
ATERIAL TYPE Pipe Covering (PC)	NA
1 =MAG/CAL Silicate	L
-1 =Air Cell / paper	
Ceiling Plasters or Fireproofing (CP) -1 =Cementitious (Monocoat)	NA
0 =Standard	
1 ="Cotton Candy" texture	
ATER DAMAGE (WD) 0 =No water damage	0
 Small amount of damage can be seen; damage is localized rather than widespread 	
2 =Good deal of water damage; widespread	
OOF CHARACTERISTICS (RC) -0.5 =Sloped or Hipped -0.5 =Metal or Concrete	-0.5
0.5 =Flat or Built-up	
XPOSED SURFACE AREA (ESA) 0 =Material behind a permanent enclosure 2 =Material behind a lay-in ceiling or in open tunnel 4 =Material is exposed	4
CCESSIBILITY (AC)	4
0 =Totally inaccessible 1 =Can only reach with hands, ie. pipe chase 2 =An open tunnel or above a drop ceiling 3 =Exposed overall, but can't reach, ie. >10' high 4 =Material is out in the open and <10' high	
CTIVITY AND MOVEMENT (A/M)	2
0 =No occupants enter the area 1 =Area is accessed infrequently 2 =Area is accessed frequently	
ORK ENVIRONMENT (WE)	0.5
-0.5 =Sedentary	
0.5 =Non-sedentary OUND AND MECHANICAL VIBRATIONS (SMV)	0.5
0.5 =Frequent or Constant	0.5
-0.5 =No recognizable vibration	
IR - PLENUM / AIR STREAM (AP) 0 =No air plenum or air flow	11
1 =Air plenum or air flow exists	
ELOCITY (if Air Plenum = 1) (VEL) 0.25 =Recognizable by human feeling	-0.25
-0.25 =Non-recognizable by human feeling	
LOW (if Air Plenum = 1) (FL) -0.25 =Constant, steady stream 0.25 =Impact, gusty flow	NA
RIABILITY (F)	1
1 =Very hard to crumble under hand pressure 2 = Will crumble under a little hand pressure 3 =Extremely easy to crumble under light pressure	· · ·
	2
, , , , , , , , , , , , , , , , , , , ,	<u> </u>
SBESTOS CONTENT (ASB) 0 =None <1% 1 =1% to 10% Asbestos 2 =11% to 50% Asbestos	
SBESTOS CONTENT (ASB) 0 =None <1% 1 =1% to 10% Asbestos 2 =11% to 50% Asbestos 3 =51% to 100% Asbestos	00.5
SBESTOS CONTENT (ASB) 0 =None <1% 1 =1% to 10% Asbestos 2 =11% to 50% Asbestos	28.5



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August 17th, 2021

Union Pacific Railroad Asbestos Program c/o GHD 3807 South 148th Street Omaha, NE 68144

RE: WY, Cheyenne, Rollingstock MP 13835, Requested NESHAP Inspection Earth Services & Abatement Project Number: 215WY001

To Whom It May Concern,

Please find our NESHAP report for the above-mentioned requested inspection. Earth Services & Abatement's Joseph Kulm inspected UPRR railcar MP 13835 for suspect asbestos-, lead-, and PCB-containing materials. The inspection work took place on July 13th, 2021.

No previous reports were provided for review prior to inspection.

Refer to the report for a summary of this inspection, including inspection/lab results, inspection photographs, and schematics.

If you have any questions or need anything else for this project, please do not hesitate to contact us.

Conducted by,

Jospeh Kulm Inspector Earth Services & Abatement

Reviewed by,

Best Syphie

Robert Szynskie Program Director Earth Services & Abatement Robert.szynskie@esasite.com Cell – 720-206-9238

UNION PACIFIC	F	Rolling Stock	Asb	estos Ir	nspe	ction	Report		
WW						Inspec	ction Start Date	07/13/202	21
BUILDING AMERICA [®] Inspection Type						Inspec	ction End Date	07/13/202	21
X Initial Inspection		Reinspection	X NE	SHAP Inspe	ection	Repor	t Date	08/10/202	21
Inspection Comp	-	es & Abatement		Liconco		16608			
· · · ·				License N	_				
Address 6700 E 5	Uth Av	/e				erce City			
				State	со	Z	Zip <u>80022</u>		
Inspector Inform First Name Joseph			Las	t Name	Kulm				
i	ERA	License No.	C6LEMQ	-	-	Lice	nse State		
Asset Informatio									
Rolling Stock Type		oose							
Rolling Stock No		13835		Car Name		MP 138	35		
Yard Name		eyenne		Subdivision			Unknown		
Address	East Union Pacific Ave.			 Mile Post		Unknown			
City	Che	eyenne		Latitude 4		41.129563°			
State	WY			Longitude -104.81			.815307°		
Zip Code	820	01			-				
Key Contacts									
Name		Phone Number	Comp	any			Role/Responsibili	ty	
Kulm,Joseph		303-991-1280	Earth	Services &	Abate	ment	Inspector		
Szynskie,Robert		303-991-1280	Earth	Services &	Abate	ment	Program Director		
Dickens,Edgar		307-214-3545	UPRF	R			Local Contact		
was limited by the u	ere m ise of ble. If	ade to conduct a com hand-tools and some additional suspect ma	additiona	al suspect m	naterial	ls may be	e present in areas n	ot	

		Rolling Stoc	k Asbestos Inspec	tion Rep	ort r	eport Date	08/10/2021				
Rolling Stock Type											
BUILDING AMERICA [™] Rolling Stock No											
Asbe	estos Results										
ACM Pr	esent ¹ Yes	Total Number of	ACM Components. ¹ 6								
Total Nu Notes	umber of Materials Containin	g <= 1% Asbestos.	0		_						
			escriptive than that on the chair 130721-001 thru 002 is not con				hing material				
	Asbestos Sam	ples									
Sample Date	Sample ID	Description	Location	Asbestos Result ²	ACM Category	Friable	Quantity	Modified Algorithm Number			
07/13/2021	CHE-MP13835-130721-0 01 thru 003	Beige flooring and beige mastic	Interior floor throughout	Not Detected	N/A	N/A	162 sq. ft.	N/A			
07/13/2021	CHE-MP13835-130721-0 04 thru 006	White coating	Interior walls and ceiling	10%, Chrysotile	Category II	No	567 sq. ft.	4			
07/13/2021	CHE-MP13835-130721-0 07 thru 009	Linoleum table top (no mastic)	Interior table	Not Detected	N/A	N/A	8 sq. ft.	N/A			
07/13/2021	CHE-MP13835-130721-0 10 thru 012	Gray window glazing	Interior large windows	Not Detected	N/A	N/A	16 LF	N/A			
07/13/2021	CHE-MP13835-130721-0 13 thru 015	White coating	Interior water tank	10%, Chrysotile	Category II	No	102 sq. ft.	4			
07/13/2021	CHE-MP13835-130721-0 16 thru 018	Gray transite boards	Interior around furnace	15%, Chrysotile	Category I	No	24 sq. ft.	3			
07/13/2021	CHE-MP13835-130721-0 19 thru 021	Gray door sealant	Interior door frames	4.8%, Chrysotile	Category II	No	34 LF	4			
07/13/2021	CHE-MP13835-130721-0 22 thru 024	Gray roof seam sealant	Exterior roof and wall joint along ends	10%, Chrysotile	Category II	No	18 LF	4			

1 "ACM Present" is defined as material with >1% asbestos, except in California, where Asbestos-Containing Construction Material (ACCM) is defined as >0.1% asbestos.

2 For samples collected in sets, only the highest result is reported. Some of the collected samples may not have been analyzed. See the attached laboratory report for additional details.

3 "Lead Present" and "Positive" is defined as paint with $\geq 0.5\%$ lead.

4 "PCBs Present" and "Positive" is defined as caulk with \geq 50 ppm PCBs.

			Rolling Sto	ock Asbestos Inspec	tion Rep		Report Date Stock Type		
BUILDIN	G AMERICA"	м				Rollin	ng Stock No	MP 1383	15
		Asbestos Sam	ples						
Sample Date	Ę	Sample ID	Description	Location	Asbestos Result ²	ACM Category	Friable	Quantity	Modified Algorithm v Number
07/13/2021		P13835-130721-0 027	Gray window caulk	Exterior large windows on popout	10%, Chrysotile	Category II	No	18 LF	4
07/13/2021		P13835-130721-0 030	Black brake pads	Exterior wheels	Not Detected	N/A	N/A	2 sq. ft.	N/A
	Present ³	Paint Results Yes	Total Number	of Positive Components. ³ 2					
	ample Date		Samples	Description		Location		Lead Result	Condition
07/13/20		CHE-MP13835-1	•	Gray	Interior		0.036		Good
07/13/20		CHE-MP13835-1	130721-002L	Red	Exterio		3.8 %		Fair
07/13/20	.021	CHE-MP13835-1	130721-003L	White	Exterio roof	or handrails an	nd 2.9 %	6	Poor

4 "PCBs Present" and "Positive" is defined as caulk with ≥50 ppm PCBs.

	Rol	ling Stock Asbestos Inspec	tion Report Report Date	08/10/2021	
			Rolling Stock Type	Caboose	
BUILDING AME	RICA™		Rolling Stock No	MP 13835	
Polychlo	rinated Biphenyls Results				
PCBs Preser		otal Number of Positive Components.4			
Notes					
	PCBs Samples				
Sample Date	Sample ID	Description	Location	PCBs Result	Quantity
07/13/2021	CHE-MP13835-130721-001P	Gray window caulk	Exterior large windows on popout	Not Detected	18 LF
Suspect Molo					
		ept in California, where Asbestos-Containing Construction ed. Some of the collected samples may not have been an		ional details.	
3 "Lead Present" and	I "Positive" is defined as paint with $\ge 0.5\%$ I d "Positive" is defined as caulk with ≥ 50 pp	ead.			Page 4



Rolling Stock Asbestos Inspection Report

Asset Photos

Report Date 08/10/2021

Caboose

Rolling Stock Type

Train ID marker



View of train, looking northwest

Rolling Stock No MP 13835 View of train, looking south-southwest



View of train interior



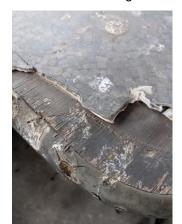
BUILDING AMERICA**



CHE-MP13835-130721-001 thru 003, Asbestos Not Detected, Beige flooring and beige mastic



CHE-MP13835-130721-004 thru 006, 10% Asbestos, White coating



CHE-MP13835-130721-007 thru 009, Asbestos Not Detected, Linoleum table top (no mastic)

Rolling Stock Type

Caboose

Rolling Stock No

MP 13835



CHE-MP13835-130721-001 thru 003, Asbestos Not Detected, Beige flooring and beige mastic



CHE-MP13835-130721-004 thru 006, 10% Asbestos, White coating



CHE-MP13835-130721-007 thru 009, Asbestos Not Detected, Linoleum table top (no mastic)



BUILDING AMERICA**



CHE-MP13835-130721-010 thru 012, Asbestos Not Detected, Gray window glazing



CHE-MP13835-130721-013 thru 015, 10% Asbestos, White coating



CHE-MP13835-130721-016 thru 018, 15% Asbestos, Gray transite boards

Rolling Stock Type

Caboose

Rolling Stock No

MP 13835



CHE-MP13835-130721-010 thru 012, Asbestos Not Detected, Gray window glazing



CHE-MP13835-130721-013 thru 015, 10% Asbestos, White coating



CHE-MP13835-130721-016 thru 018, 15% Asbestos, Gray transite boards



BUILDING AMERICA**



door sealant



CHE-MP13835-130721-022 thru 024, 10% Asbestos, Gray roof seam sealant

Rolling Stock Type Caboose

Rolling Stock No MP 13835



CHE-MP13835-130721-019 thru 021, 4.8% Asbestos, Gray CHE-MP13835-130721-019 thru 021, 4.8% Asbestos, Gray door sealant



CHE-MP13835-130721-022 thru 024, 10% Asbestos, Gray roof seam sealant





CHE-MP13835-130721-025 thru 027, 10% Asbestos, Gray CHE-MP13835-130721-025 thru 027, 10% Asbestos, Gray window caulk

window caulk





BUILDING AMERICA"



CHE-MP13835-130721-028 thru 030, Asbestos Not Detected, Black brake pads



CHE-MP13835-130721-001L, 0.036% Lead, Gray

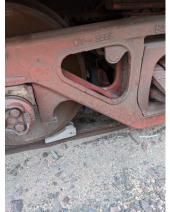


CHE-MP13835-130721-002L, 3.8% Lead, Red

Rolling Stock Type

Caboose

Rolling Stock No MP 13835



CHE-MP13835-130721-028 thru 030, Asbestos Not Detected, Black brake pads



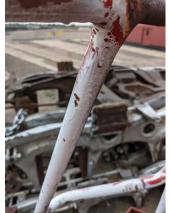
CHE-MP13835-130721-001L, 0.036% Lead, Gray



CHE-MP13835-130721-002L, 3.8% Lead, Red



BUILDING AMERICA"



CHE-MP13835-130721-003L, 2.9% Lead, White



CHE-MP13835-130721-001P, PCB Not Detected, Gray CHE-MP13835-130721-001P, PCB Not Detected, Gray window caulk

Caboose

Rolling Stock No MP 13835

Rolling Stock Type



CHE-MP13835-130721-003L, 2.9% Lead, White

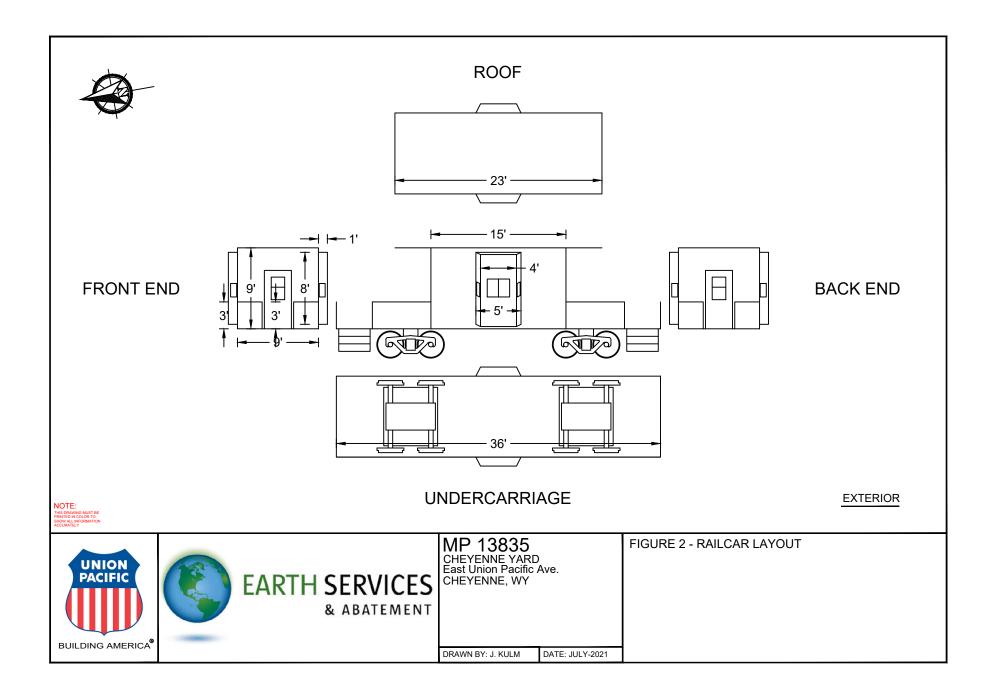


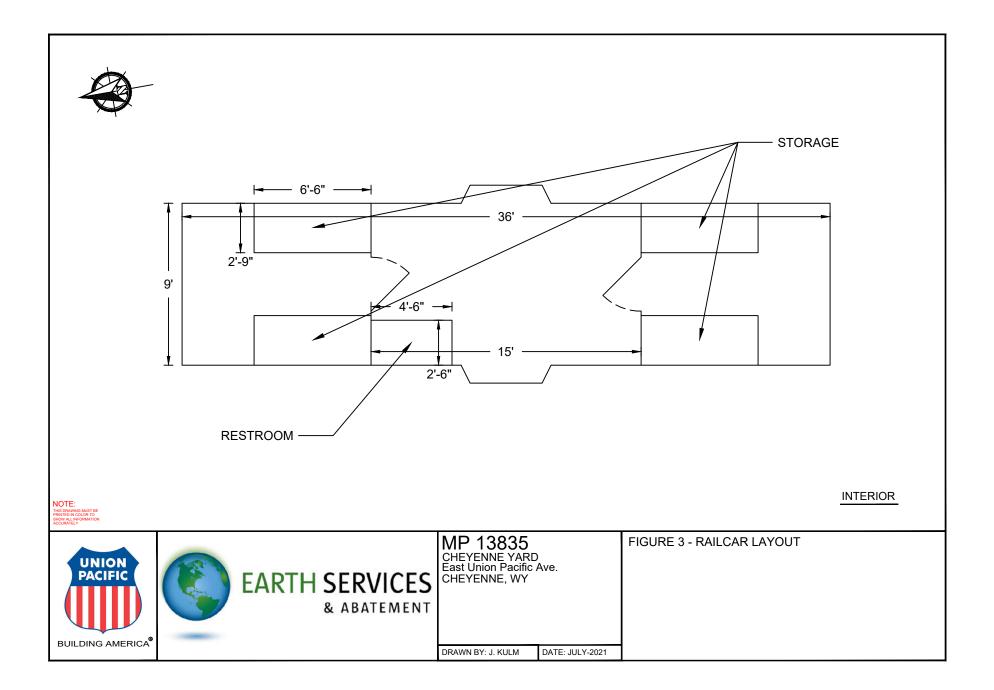
window caulk

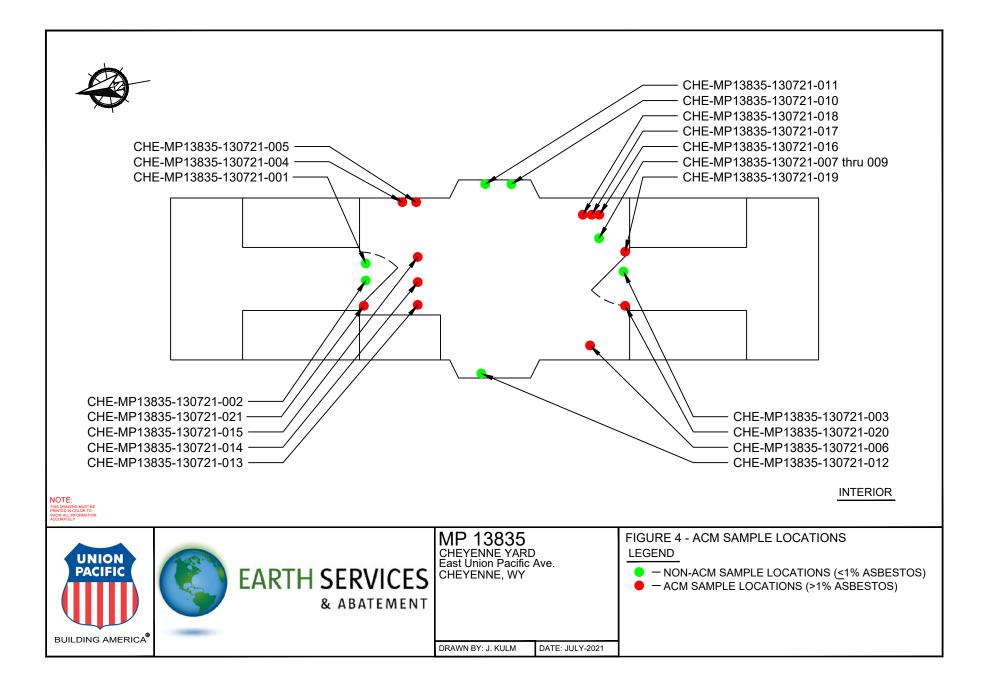
Appendix 1 - Figures

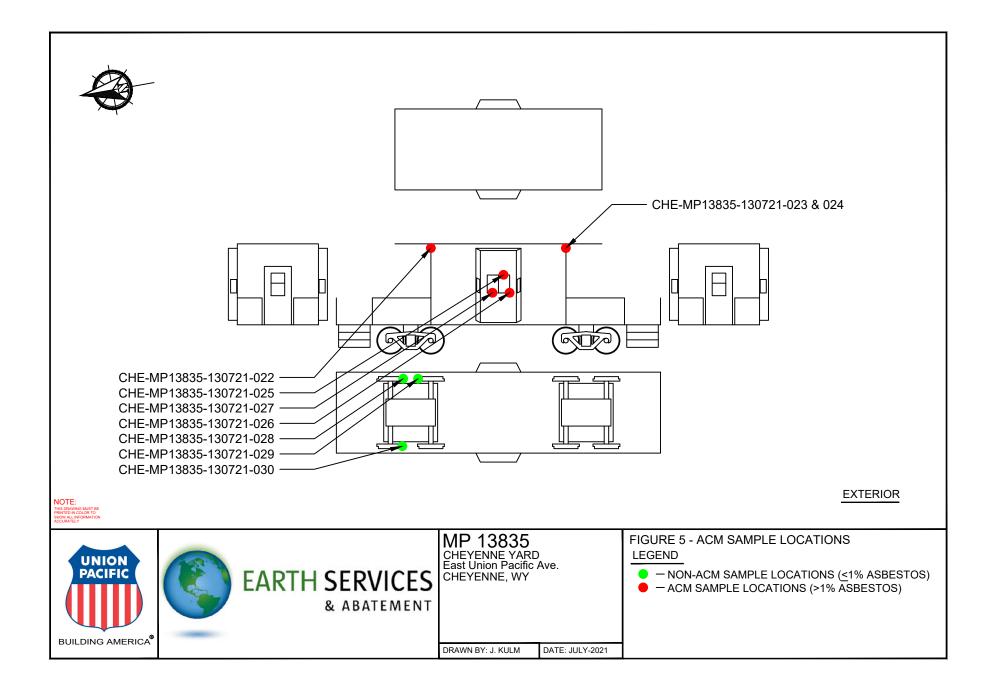
Report Date08/10/2021Rolling Stock TypeCabooseRolling Stock NoMP 13835

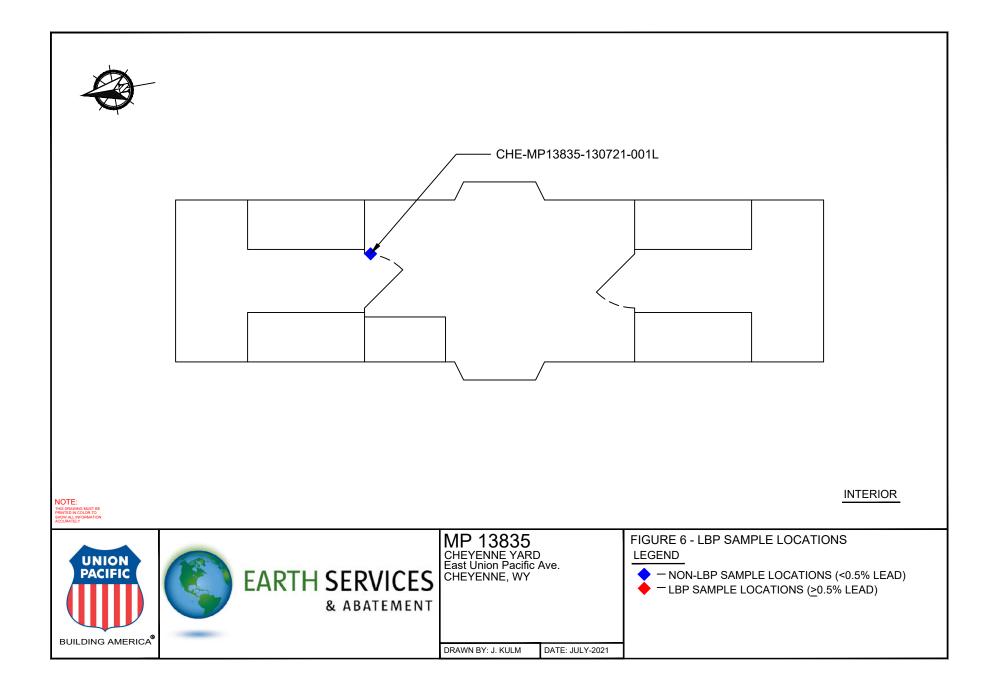


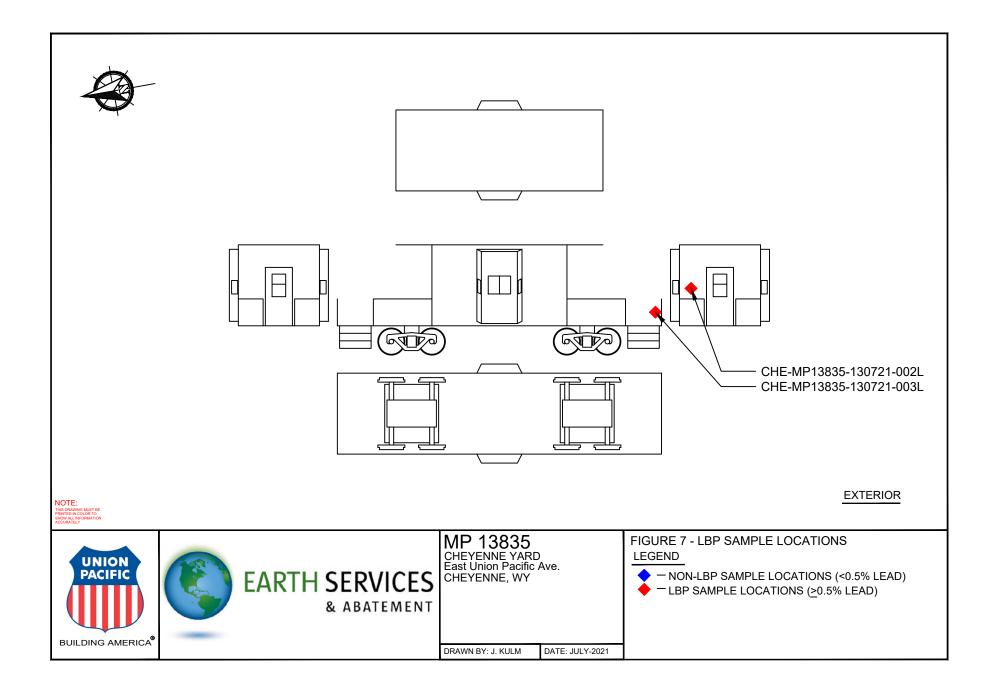


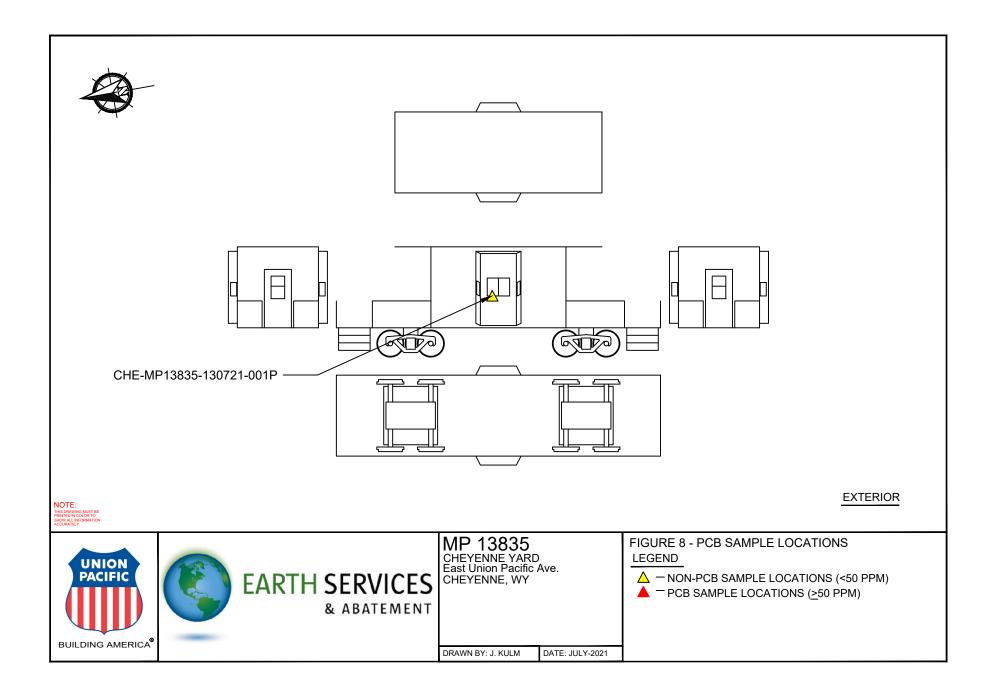


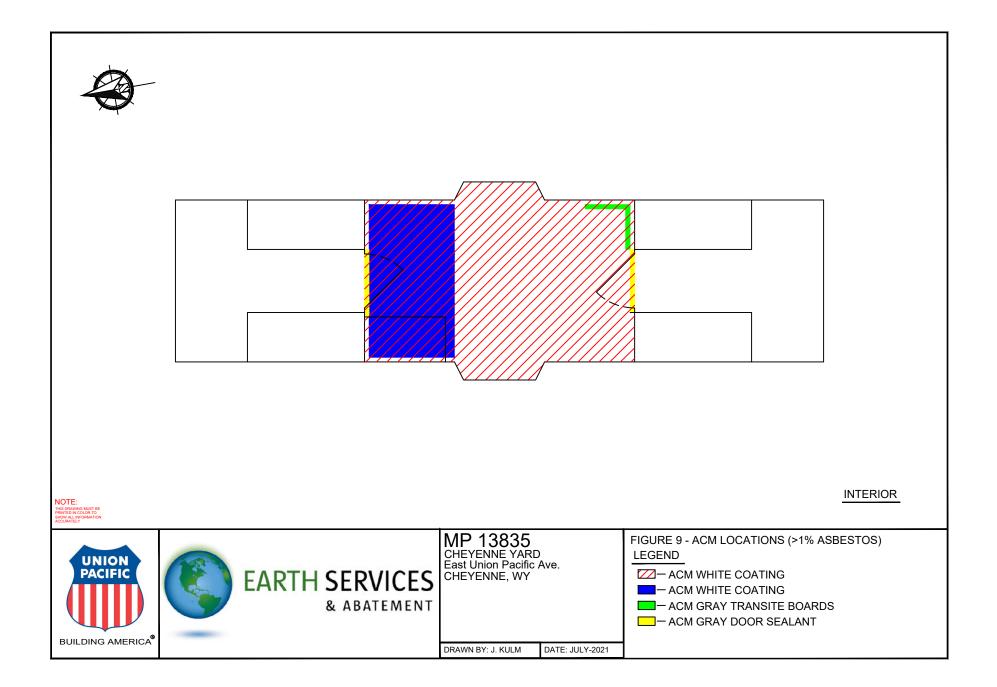


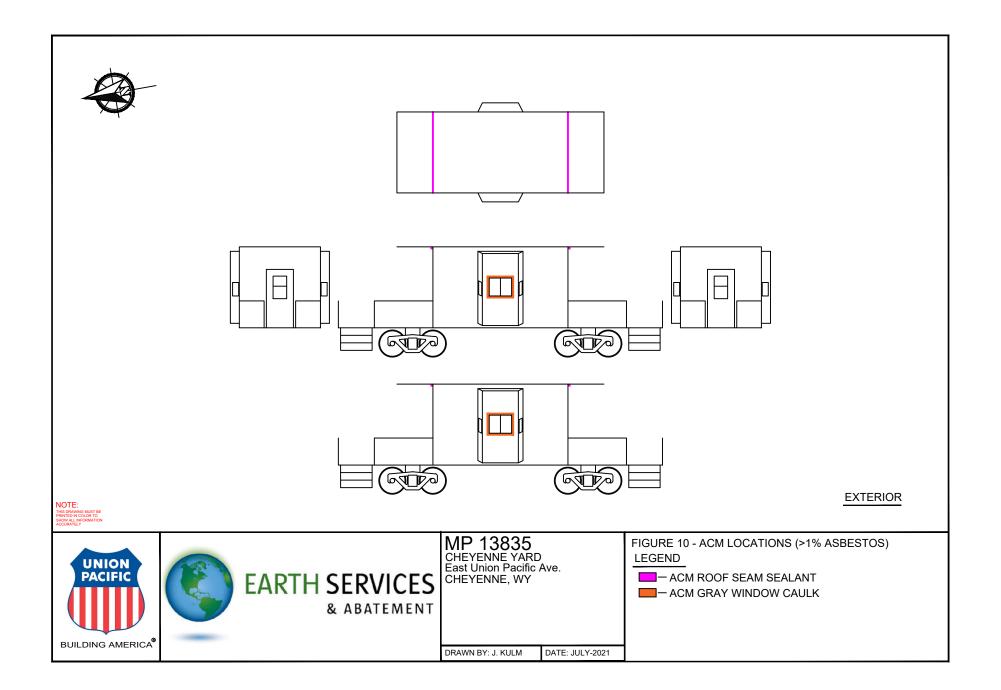












Appendix 2 - Lab Reports and Chain of Custody Receipts

Report Date	08/10/2021
Rolling Stock Type	Caboose
Rolling Stock No	MP 13835

3113 Red Bluff Road, Pasadena, TX 77503 Phone: (713) 290-0223 - Fax: (713) 290-0248 *J3Resources.com*





Bulk Asbestos Fiber Analysis by Polarized Light Microscopy (PLM) Appx E Sub E 40 CFR 763 / EPA 600/R-93/116

Joseph Kulm Earth Services & Abatement, Inc. 6700 E. 50th Avenue Commerce City CO 80022
 Order #:
 JH21129232

 Project #:
 215WY001

 Date Received:
 20-Jul-2021

 Date Analyzed:
 22-Jul-2021

 Date Reported:
 23-Jul-2021

Rolling Stock #MP 13835

Sample ID #	Sample Description	Asbestos Constituents	6	Non-Asbestos Constituents	
CHE-MP13835- 130721-001	LAYER 1 Flooring, Beige, Homogeneous	None Detected		Non-Fibrous Material	100%
	LAYER 2 Mastic, Beige, Homogeneous	None Detected		Non-Fibrous Material	100%
	LAYER 3 Wood, Brown, Homogeneous	None Detected		Cellulose Fiber Non-Fibrous Material	95% 5%
CHE-MP13835- 130721-002	LAYER 1 Flooring, Beige, Homogeneous	None Detected		Non-Fibrous Material	100%
	LAYER 2 Mastic, Beige, Homogeneous	None Detected		Non-Fibrous Material	100%
	LAYER 3 Wood, Brown, Homogeneous	None Detected		Cellulose Fiber Non-Fibrous Material	95% 5%
CHE-MP13835- 130721-003	LAYER 1 Flooring, Beige, Homogeneous	None Detected		Non-Fibrous Material	100%
	LAYER 2 Mastic, Beige, Homogeneous	None Detected		Non-Fibrous Material	100%
CHE-MP13835- 130721-004	Coating, White, Homogeneous	Chrysotile	10%	Non-Fibrous Material	90%
CHE-MP13835- 130721-005	Coating, *Not analyzed per client reque	st			
CHE-MP13835- 130721-006	Coating, *Not analyzed per client reque	st			
CHE-MP13835- 130721-007	Sheet Flooring, Gray, Homogeneous No Mastic Present	None Detected		Cellulose Fiber Non-Fibrous Material	25% 75%

Scott Ward, Ph.D. Lab Director

Jovahnny Dominguez Analyst

These results apply to the sample(s) as received. This report is for the exclusive use of the addressed client and shall not be reproduced except in full, without written approval by Eurofins J3 Resources, Inc. (EJ3). Samples are analyzed according to the methods listed above and are subject to the inherent limitations of PLM and interference of matrix components. Reporting limit for the above method is a function of the quantity of sample analyzed, matrix interference, sample preparation, fiber size, and distribution. Asbestos may be detected in concentrations of <1% by area if sufficient material is analyzed. EJ3 recommends TEM confirmation of soils, vermiculite and non-friable

not be used to claim product approval, certification, or endorsement by NVLAP, NIST, or any agency of the federal government.

organically bound materials (NOB) reported as None Detected or < 1% Asbestos by PLM. All samples received in good condition unless otherwise noted. This report shall

3113 Red Bluff Road, Pasadena, TX 77503 Phone: (713) 290-0223 - Fax: (713) 290-0248 *J3Resources.com*





Bulk Asbestos Fiber Analysis by Polarized Light Microscopy (PLM) Appx E Sub E 40 CFR 763 / EPA 600/R-93/116

Joseph Kulm Earth Services & Abatement, Inc. 6700 E. 50th Avenue Commerce City CO 80022
 Order #:
 JH21129232

 Project #:
 215WY001

 Date Received:
 20-Jul-2021

 Date Analyzed:
 22-Jul-2021

 Date Reported:
 23-Jul-2021

Rolling Stock #MP 13835

Sample ID #	Sample Description	Asbestos Constituents	5	Non-Asbestos Constituents	
CHE-MP13835- 130721-008	Sheet Flooring, Gray, Homogeneous No Mastic Present	None Detected		Cellulose Fiber Non-Fibrous Material	25% 75%
CHE-MP13835- 130721-009	Sheet Flooring, Gray, Homogeneous No Mastic Present	None Detected		Cellulose Fiber Non-Fibrous Material	25% 75%
CHE-MP13835- 130721-010	Window Glazing, Gray, Homogeneous	None Detected		Non-Fibrous Material	100%
CHE-MP13835- 130721-011	Window Glazing, Gray, Homogeneous	None Detected		Non-Fibrous Material	100%
CHE-MP13835- 130721-012	Window Glazing, Gray, Homogeneous	None Detected		Non-Fibrous Material	100%
CHE-MP13835- 130721-013	Coating, White, Homogeneous	Chrysotile	10%	Non-Fibrous Material	90%
CHE-MP13835- 130721-014	Coating, *Not analyzed per client request				
CHE-MP13835- 130721-015	Coating, *Not analyzed per client request				
CHE-MP13835- 130721-016	Transite, Gray, Homogeneous	Chrysotile	15%	Non-Fibrous Material	85%
CHE-MP13835- 130721-017	Transite, *Not analyzed per client reques	t			
CHE-MP13835- 130721-018	Transite, *Not analyzed per client reques	t			
CHE-MP13835- 130721-019	Door Sealant, Gray, Homogeneous	Chrysotile	10%	Non-Fibrous Material	90%

Scott Ward, Ph.D. Lab Director

TDSHS License: 30-0457

Page 2 of 3

Jovahnny Dominguez Analyst

NVLAP Lab Code: 600120-0

These results apply to the sample(s) as received. This report is for the exclusive use of the addressed client and shall not be reproduced except in full, without written approval by Eurofins J3 Resources, Inc. (EJ3). Samples are analyzed according to the methods listed above and are subject to the inherent limitations of PLM and interference of matrix components. Reporting limit for the above method is a function of the quantity of sample analyzed, matrix interference, sample preparation, fiber size, and distribution. Asbestos may be detected in concentrations of <1% by area if sufficient material is analyzed. EJ3 recommends TEM confirmation of soils, verniculite and non-friable organically bound materials (NOB) reported as None Detected or < 1% Asbestos by PLM. All samples received in god condition unless otherwise noted. This report shall not be used to claim product approval, certification, or endorsement by NVLAP, NIST, or any agency of the federal government.

AIHA-LAP, LLC Lab ID: 157714

3113 Red Bluff Road, Pasadena, TX 77503 Phone: (713) 290-0223 - Fax: (713) 290-0248 *J3Resources.com*





Bulk Asbestos Fiber Analysis by Polarized Light Microscopy (PLM) Appx E Sub E 40 CFR 763 / EPA 600/R-93/116

Joseph Kulm Earth Services & Abatement, Inc. 6700 E. 50th Avenue Commerce City CO 80022
 Order #:
 JH21129232

 Project #:
 215WY001

 Date Received:
 20-Jul-2021

 Date Analyzed:
 22-Jul-2021

 Date Reported:
 23-Jul-2021

Rolling Stock #MP 13835

Sample ID #	Sample Description	Asbestos Constituents		Non-Asbestos Constituents	
CHE-MP13835- 130721-020	Door Sealant, *Not analyzed per client request				
CHE-MP13835- 130721-022	Roof Seam Sealant, Gray, Homogeneous	Chrysotile	10%	Non-Fibrous Material	90%
CHE-MP13835- 130721-023	Roof Seam Sealant, *Not analyzed per client request				
CHE-MP13835- 130721-024	Roof Seam Sealant, *Not analyzed per client request				
CHE-MP13835- 130721-025	Window Caulk, Gray, Homogeneous	Chrysotile	10%	Non-Fibrous Material	90%
CHE-MP13835- 130721-026	Window Caulk, *Not analyzed per client request				
CHE-MP13835- 130721-027	Window Caulk, *Not analyzed per client request				
CHE-MP13835- 130721-028	Brakes, Black, Homogeneous	None Detected		Fibrous Glass Non-Fibrous Material	<1% 100%
CHE-MP13835- 130721-029	Brakes, Black, Homogeneous	None Detected		Fibrous Glass Non-Fibrous Material	<1% 100%
CHE-MP13835- 130721-030	Brakes, Black, Homogeneous	None Detected		Fibrous Glass Non-Fibrous Material	<1% 100%

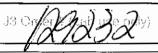
Scott Ward, Ph.D. Lab Director

Jovahnny Dominguez Analyst

These results apply to the sample(s) as received. This report is for the exclusive use of the addressed client and shall not be reproduced except in full, without written approval by Eurofins J3 Resources, Inc. (EJ3). Samples are analyzed according to the methods listed above and are subject to the inherent limitations of PLM and interference of matrix components. Reporting limit for the above method is a function of the quantity of sample analyzed, matrix interference, sample preparation, fiber size, and distribution. Asbestos may be detected in concentrations of <1% by area if sufficient material is analyzed. EJ3 recommends TEM confirmation of soils, vermiculite and non-friable organically bound materials (NOB) reported as None Detected or < 1% Asbestos by PLM. All samples received in good condition unless otherwise noted. This report shall not be used to claim product approval, certification, or endorsement by NVLAP, NIST, or any agency of the federal government.

NVLAP Lab Code: 600120-0 AIHA-LAP, LLC Lab ID: 157714 TDSHS License: 30-0457 Page 3 of 3

IH CHAIN OF CUSTODY





Submitter Name:	Joseph Kulm				Bill to:		SAME				
Company:	Earth Service	s & Aba	atement		Address:	:					
Address:	6700 E. 50th	Ave.									
		~			City/State	e:			Zip);	
City/State: Co	mmerce City, (0	Zip: ⁸⁰⁰²²	2	1 -		001 - Rolling	Stoc			
Project Information											
Project Name: 2020 Assigned Inspections Project Manager: Amanda Wozab											
Project #: 215WY0				<u>.e</u>	Telep	hone	e – Office/Ce	li 40	2.578.685	58	
Reports - Email Ad	dress: Amanda	a.Woza	b@ESASite.cor	m; Jose	eph.Kulm@	ESA	site.com				
Invoice - Email Add	lress: Same a	s above	ə		Noti	ficatio	on By: Em	ail: [I Ve	rbal: 🛛	Text: 🛛
Special Instructions	: 1) 400 Point	Count,	GR when appli	cable; a	at >1% AN	D ≤5'	% 2) PC,GF	{ >19	6 AND ≤1	.49%; no	positive stop
Turnaround Times – Please Select One											
Emergency*	□ 1	Day		2 Day			3 Day	Ø		5 Da	ay 🗆
ASBESTOS											
PLM - Bulk	PCM	Air	TEM - Air	TE	V - Bulk	TE	M - Water	ТЕ	M - Dust	1	EM/PLM ermiculite/Ore
EPA 600/R-93/116 O NIOSH 7400 X Visual Estimation (<1%) O ASTM D7201 O 400 Point Count 0.25% O ISO 8672 O 1,000 Point Count 0.1% O OSHA ID-160 O Gravimetric Reduction Matrix Reduction (+/-) O NIOSH 9002 OSHA ID-191		07201 2	○ AHERA ○ NIOSH 7402 ○ ASTM D6281 ○ ISO 10312 ○ ISO 13794	O Matr Redu O Qual	uction (<1%) ix uction (+/-) litative (+/-) ip Mount	Dr o o O EP	2A 100.2 inking Water >10 μm fibers ≥0.5 μm fibers 2A 100.2 fluent / WW	Mi O AS W O 60 Ca O BL	GTM D5756 crovac GTM D6480 ipe 0/J-93/167 urpet - EPA ulk Dust ualitative	O ASTM O CARB O Soil – I O Vermic	7521-TEM (+/-) 7521-TEM (<1%) 435-Modified PLM Only (+/-) culite - TEM (+/-) culite-Cincinnati e ID
		·. · · ·	METALS				· · · · · ·	· .	P	ARTICU	LATES
Flame	AA	Gra	aphite Furnace A LEAD	AA -		10	CP			Gravim	etric
O Lead in Air - NIOSH 7082 O Wastew O Lead in Wipes - SW846 7420/3050B O Soil/Slu			king Water – EPA 2 stewater – SW846-7	y Water – EPA 200.9 O E vater – SW846-7421 O V dge – SW846-7421 O E OSH 7105 O V		O Elements in Air – NIOSH 7300 O Wipe/Soil – SW846-6010B O Effluent – SW846-6010B O Welding Furne – NIOSH 7300M O TCLP – SW846-1311/6010B					Particulates rable Particulates
Total Number of	of Samples	Subm	itted: 30		Positive	e Sto	op: 🔳	YES		NO	
	A		~ 1	Sigr	natures			:	- /		
Relinquished By:		AC	91		h		Date		7/19	Time:	\overline{n}
Received By:		V		L.	<u> </u>		Date): _	11-012	/ Time:	10:20
Relinquished By:				Ì	V		Date	-		Time:	
Received By:			-				Date	:		Time:	

* Emergency TAT requires prior lab notification. All samples analyzed outside normal business hours are charged at Emergency rate. **TAT's are in Business Days rather than Hours (i.e.1 Day TAT = End of Next Business Day)

IH CHAIN OF CUSTODY

Project Name/Number_215WY001 - Rolling Stock # MP 13835

Page _2____ of _2____

SAMPLE IDENTIFICATION

ing, Beige/Multi Colored	
" Wall/Ceiling Coating, White " " " " um, Gray " " Window Glazing, White " " Tank Coating, Gray/White	
Wall/Ceiling Coating, White Wall/Ceiling Coating, White Um, Gray Window Glazing, White Tank Coating, Gray/White	
" " Window Glazing, White " " Tank Coating, Gray/White " "	
<pre>""""""""""""""""""""""""""""""""""""</pre>	
um, Gray	
" Window Glazing, White " " " Tank Coating, Gray/White " "	
" Window Glazing, White " " " Tank Coating, Gray/White " "	
Window Glazing, White	
" " Tank Coating, Gray/White "	
" " Tank Coating, Gray/White	
Tank Coating, Gray/White	
n	
n	
Transite, Gray	
n u	
n #	
Sealant, Tan	
и	
Roof Seam Sealant, Off-White	· · · ·
u u	
II B	
ndow Caulking, White	
u l	
n	
Brakes, Black	
III II	
u u	
	Sealant, Tan



 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: 222105226 CustomerID: ESAB42 CustomerPO: ProjectID:

Attn:	Joseph Kulm	Phone:	(303) 339-3051
	Earth Services & Abatement, Inc. 6700 E. 50th Ave. Commerce City, CO 80022	Fax: Received: Analysis Date: Collected:	7/20/2021 01:30 PM 7/28/2021
Projec	ct: 215WY001		

Test Report: Polarized Light Microscopy (PLM) - Point Count Performed by EPA 600/R-93/116 Method with Gravimetric Reduction and 400 Point Count

SAMPLE ID	DESCRIPTION	APPEARANCE	(%) Ma Organic		NON- ASBESTOS % Fibrous	NON- ASBESTOS % NON-FIBROUS	ASBESTOS % TYPES
CHE-MP13835- 130721-021 222105226-0001	DOOR SEALANT, TAN	Brown/Silver Fibrous	29.4	30.2		35.6 Non-fibrous (other)	4.8 Chrysotile
		Homogeneous					

Analyst(s)

Timothy Kleehammer (1)

Henry Printz, TEM/PCM Laboratory Supervisor or other approved signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method") but augmented with procedures outlined in the 1993 ("final") version of the method. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Some samples may uncertainty is available on request.

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

Initial report from 07/28/2021 10:07:24



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

EMSL Analytical, Inc. 1010 Yuma Street

222105226

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

Company Name : Earth S	Company Name : Earth Services & Abatement							
Street: 6700 E 50th Ave			City: Commerce City State/Province: CO					
Zip/Postal Code: 80022	-	Country: US	Telephone #: 303-991-1280 Fax #:					
Report To (Name): Jose	oh Kulm, Ama		Please Provide Results: Fax Email					
Email Address: joseph.k			Purchase O	rder:				
Project Name/Number: 2			EMSL Proje		l Use On			
U.S. State Samples Taker	n: WY		CT Samples				dential/Tax Exempt	
	EMSL-Bill	I to: 🔽 Same 🔲 Different - Third Party Billing requires write				ents**		
		Turnaround Time (TAT)	Options* - Pl	ease Check				
	Hour 🔲	24 Hour 48 Hour	[🗍 72 Ho		6 Hour	1 Week	2 Week	
*For TEM Air 3 hr through 6 hi authorization form 1	, please call ahea for this service. A	ad to schedule.*There is a premiun Analysis completed in accordance	n charge for 3 Ho with EM <u>SE's T</u> err	y AEM AHERA ns and Conditio	or EPA Le Ins located	evel II TAT. You v in <u>th</u> e A <u>nalytical I</u>	will be asked to sign an Price_Guide	
PCM - Air Check if san	nnlos aro	<u>TEM – Air</u> 4-4.5hr TAT (TEM- Dust				
from NY	lr.	AHERA 40 CFR, Part		Microva	ac - ASTN	M D 5755		
w/ OSHA 8hr. TWA	וֹנ	763 NIOSH 7402			ASTM D			
PLM - Bulk (reporting lim	iit)	EPA Level II				on (EPA 600/J-	93/167)	
PLM EPA 600/R-93/116		ISO 10312		Soil/Rock/				
PLM EPA NOB (<1%)	· · ·	TEM - Bulk			PA 600/R	-93/116 with m	illing prep (<1%)	
Point Count]	TEM EPA NOB					illing prep (<0.25%)	
□ 400 (<0.25%) □ 1000	NYS NOB 198.4 (non-fria	able-NY)				illing prep (<0.1%)		
Point Count w/Gravimetric	Chatfield SOP	TEM Qualitative via Filtration Prep						
400 (<0.25%) 1000	· · F	TEM Mass Analysis-EPA	Cincipnati Method EPA 600/R-04/004 – PI M/TE					
NYS 198.1 (friable in N		TEM Water: EPA 100.2		(BC only)				
NYS 198.6 NOB (non-	friable-NY)	Fibers >10µm Waste [Drinking	Other:				
		All Fiber Sizes Waste						
NIOSH 9002 (<1%)								
Check For Positive St	op – Clearly Io	dentify Homogenous Grou	p Filter	Pore Size (A	Air Samp	les): 🔽 0.8µ	ım 0.45µm	
Samplers Name: JOSE	ph Kulm		Samplers	Signature:			_	
Samula #						e/Area (Air)	Date/Time	
Sample #		Sample Descripti	ion		<u> </u>	# (Bulk)	Sampled	
CHE-MP13835-130721-021	Door Seal	lant, Tan						
 								
·			<u> </u>		{			
Client Sample # (s): CHI	E-MP13835-130	.721-021 _ Cł	HE-MP13835-13	0721-021	Total # c	of Samples: 1		
Relinquished (Client):	Rober	at Small Date	: 7-20	-21		Time:	<u> </u>	
Received (Lab):	LM	Date	: 7/20	· /:	30	Time	1	
Comments/Special Instru	uctions:							
1) Point Count 400	w/ Gravime	etric if PLM results are	e positive a	nd ≤5%				
2) No positive stop			·					

Page 1 of ____ pages

Page 1 Of 1

3113 Red Bluff Road Pasadena, Texas 77503 Phone: (713) 290-0223 – Fax: (832) 831-5669 *j3resources.com*



J3 Resources

<u>Lead in Paint Performed by</u> Flame AA – USEPA SW846 7420/3050B (Mod.)

Amanda Wozab Earth Services & Abatement, Inc. 6700 E. 50th Avenue Commerce City, CO 80022
 Order #:
 JP211028584

 Project #:
 215WY001

 Receipt Date:
 21-Jul-2021

 Analysis Date:
 22-Jul-2021

 Report Date:
 23-Jul-2021

WY Rollingstock Inspections-Rolling Stock # MP 13835

SAMPLE ID	PAINT COLOR	LEAD CONCENTRATION (mg/kg)	LEAD CONCENTRATION (%)
CHE-MP13835-130721-001L	Gray	360	0.036%
CHE-MP13835-130721-002L	Red	38000	3.8%
CHE-MP13835-130721-003L	White	29000	2.9%

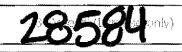
Reporting Limit = 50.0 mg/kg N/A = Not Applicable INS = Insufficient Sample Weight NS = Not Submitted

Analyst: Shervin Aghaabbasi

Scott Ward, Ph.D. Lab Director

This report relates only to the samples submitted. The analysis has been conducted according to the method(s) listed above. Blank corrections are not applied to data unless requested by the customer. This report is for the exclusive use of the addressed customer and shall not be reproduced except in full without written approval by Eurofins J3 Resources, Inc. (EJ3). EJ3 is an EPA NLLAP recognized lab by the AIHA-LAP, LLC ELLAP (Lab ID: 157714). Unless otherwise noted, all quality control samples performed within specifications established by the laboratory. The estimated accuracy is solely based on recovery data from internal laboratory control samples at the 95% confidence interval of the level of concern, derived from a 287 mg/kg lead in paint matrix reference material. The estimated accuracy does not account for uncertainty associated with the sampling process. Accuracy = +/-9%

IH CHAIN OF CUSTODY





Submitter Name:	Joseph Kulm				Bill to:		SAME				
Сотралу:	Earth Services	5 & Aba	atement		Address	:					
Address:	6700 E. 50th /	Ave.									
					City/Stat	City/State:Zip:					
City/State: Com	imerce City, C	0	Zip: 8002	2	PO #: 215WY001 Rolling Stock # MP 13835						
					Informat	ion					
Project Name: WY R	ollingstock In:	spectio	005		Proje	ct Ma	anager: Ama	nda	Wozab		
Project #: 215WY00	1 Rolling Stor	k # MI	P 13835		Teler	hone	- Offica/Ce	4()2.578.685	58	``````````````````````````````````````
Reports - Email Add	ress: Amanda	Woza	b@ESASite.cor	m; Josí	eph.Kulm@	ĝesa	site.com				
Invoice - Email Addre	ess: Same as	above	9		Not	ficatio	on By: Em	all:	🗉 Ve	rbal: 🗆	Text: 🛛
Special Instructions:											
		3	Turnaround [·]	Times	s — Pleas	e Se	lect One				
Emergency*	□ 1	Day		2 Day	1 🗆		3 Day	Ø		5 Da	iy 🗆
				ASB	ESTOS					75 - 24	-
PLM - Bulk	PCM -	Air	TEM - Air	M - Air TEM - Bulk		TE	EM - Water TEM -		EM - Dust	Dust Soil/Vermiculite/Ore	
EPA 600/R-93/115 O NIOSH 74 O Visual Estimation (<1%) ASTM D7 O 400 Point Count 0.25% O ISO 8672 O 1,000 Point Count 0.1% O OSHA ID4 O Gravimetric Reduction O Matrix Reduction (+/-) O NIOSH 9002 OSHA ID-191		7201 2	○ AHERA ○ NIOSH 7402 ○ ASTM D6281 ○ ISO 10312 ○ ISO 13794	Redu O Matr Redu O Qual	uction (+/-) litative (+/-) op Mount	(<1%) Drinking Water ○ >10 µm fibers (+/-) ○ ≥0.5 µm fibers (+/-) ○ EPA 100.2 Effluent / WW		N 0 A 0 6 0 B	STM D5755 licrovec STM D6480 Vipe 00/J-93/167 arpet - EPA ulk Dust uualitative	O ASTM O CARB O Soli - F O Vermic	7521-TEM (+/-) 7521-TEM (<1%) 435-Modified PLM Only (+/-) alite - TEM (+/-) alite-Cincinnati alD
	ичналь		METALS	A		J			P/	ARTICU	LATES
Flame A	A	Gr	aphite Furnace / LEAD	4A -		10	CP			Gravim	ətric
& Laad in Paint – SW846 7420/3050B O Lead in Air – NIOSH 7082 O Lead in Wipes – SW846 7420/3050B O Lead in Soil – SW846 7420/3050B		O Was O Soil∕	O Drinking Water EPA 200.9 O Wastewater SW846-7421 O Soil/Sludge SW846-7421 O Air NIOSH 7105		O Elements in Air - NIDSH 7300 O Wipe/Soil - SW846-6010B O Effluent - SW846-6010B O Welding Fume - NIOSH 7300M O TCLP - SW846-1311/6010B				O NIOSH 0500 Total Particulates O NIOSH 0600 Respirable Particulates		
Total Number of	Samples S	Subm	itted: 3		Positiv	e Sto	op: 🗆 🛛	YE	S 🗆	NO	
		+	······	Sigr	natures						
Relinquished By:	<u> (_jn, 7</u>	12 .	<u></u>				Date	:	7/19/21	Time:	r _
Received By:	<u>jë U</u>		μ	<u>. 60</u>	uva		Date):	HICK	2 Time:	10:30
Relinquished By:		••••••••••••••••••••••••••••••••••••••					Date			Time:	
Received By:	·····						Date	;		Time:	

* Emergency TAT requires prior lab notification. All samples analyzed outside normal business hours are charged at Emergency rale. **TAT's are in Business Days rather than Hours (i.e.1 Day TAT = End of Next Business Day)

IH CHAIN OF CUSTODY

Project Name/Number 215WY001 Rolling Stock # MP 13835

Page _2___ of _2____

SAMPLE IDENTIFICATION

SAMPLE NUMBER	SAMPLE LOCATION / MATERIAL	VOLUME
CHE-MP13835-130721-001L	Gray	
CHE-MP13835-130721-002L	Red	
CHE-MP13835-130721-003L	White	
		· · ·
		an an har a start a st
· · · · · · · · · · · · · · · · · · ·		
		·····
Comments/Special instructions:		

LIMS Version: 7.020

Monday, August 09, 2021

Amanda Wozab Earth Services & Abatement 6700 E. 50th Ave. Commerce City, CO 80022

Re: ALS Workorder: 2107404 Project Name: Rolling Stock # MP 13835 Project Number: 205WY001

Dear Ms. Wozab:

One solid sample was received from Earth Services & Abatement, on 7/21/2021. The sample was scheduled for the following analysis:

PCBs

The results for these analyses are contained in the enclosed reports.

The data contained in the following report have been reviewed and approved by the personnel listed below. In addition, ALS certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental.

Thank you for your confidence in ALS Environmental. Should you have any questions, please call.

Sincerely,

M . N

ALS Environmental Katie M. OBrien Project Manager



2107404

PCB:

The sample was analyzed using GC/ECD (electron capture detectors) according to the current revision of SOP 409 based on SW-846 Method 8082.

All acceptance criteria were met.

ALS -- Fort Collins

Sample Number(s) Cross-Reference Table

OrderNum: 2107404 Client Name: Earth Services & Abatement Client Project Name: Rolling Stock # MP 13835 Client Project Number: 205WY001 Client PO Number:

Client Sample Number	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
CHE-MP13835-130721-001P	2107404-1		SOLID	13-Jul-21	

S Laboratory Group	
ALS	0.00

Chain-of-Custody



	11. (800) 445-1511 PH; (9/0) 490-1511 FX: (9/0) 490-1522		ALC: NOT				ł			Form 202r8	0 1 7	404	4 · C	
		SAMP	SAMPLER Joseph Kulm	eph Kulm				-	DATE		PAGE	-	of _	Γ
PROJECT NAME	PROJECT NAME Rolling Stock # MP 13835	SIT	SITE ID					TURNAROUND		5 Day	DISPOSAL	By Lab or	Return to Client	lient
PROJECT No.	205WY001	EDD FORMAT	IMAT			4								
語語などの		PURCHASE ORDER	IDER				T							
COMPANY NAME	Earth Services & Abatement	BILL TO COMPANY		Earth Services & Abatement	batement									
SEND REPORT TO	Robert Szynskie	INVOICE ATTN TO	122312	Robert Szynskie										
ADDRESS	6700 E. 50th Ave.	ADDRESS	1000	6700 E. 50th Ave.										
CITY / STATE / ZIP	Commerce City, CO 80022	CITY / STATE / ZIP	1.000	Commerce City, CO 80022	D 80022		T							
PHONE	303-991-1280	H	PHONE 30	303-991-1280										
FAX	303-991-1282		FAX 30	303-991-1282		=								
E-MAIL	<u>Amanda, Wozab © esasite.com</u> Robert.Szynskie © esasite.com	E-N	E-MAIL 1056	joseph.kulm@esasite.com	site.com		PCB by 80							
0 4 B J	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	8							
	CHE-MP13835-130721-001P	NS 7	7/13/2021	-	-		×							
							-+							
							-							
				_			-							
*Time Zone (Circle):	EST CST MST PST Matrix: O = oil S = soil	oil NS = non-soil solid W = water L = liquid	W = wate		E = extract F = filter	liter								
For metals or ani	For metals or anions, please detail analytes below.							SIG	SIGNATURE	PRIN	PRINTED NAME	DATE	TIME	
Comments:		OC PACKAGE (check below)	3E (check be	How)	REL	RELINQUISHED BY	AB C	Um	R	Jose	the Kill	01/2		
		LEV	LEVEL II (Standard QC)	ard QC)		RECEIVED BY	D BV	1.10	R	- and	bar	1 all	70 194	4
		LEV	LEVEL III (Std QC + forms))C + forms)	REL	RELINQUISHED BY	D BY							>
			LEVEL IV (Std QC + forms + raw data)	DC + forms		RECEIVED BY	D BY							Γ

RELINQUISHED BY RECEIVED BY

1-HCI 2-HNO3 3-H2SO4 4-NaOH 5-NaHSO4 7-Other 8-4 degrees C 9-5035

Preservative Key:

4



ALS Environmental - Fort Collins CONDITION OF SAMPLE UPON RECEIPT FORM

(ALS)									
	Client:	EARTH SERVICES & ABAT	EMENT	Work	order No): <u>2</u>	107404		
Project N	lanager:	КМО		Initials	: JP	E Date:	07/3	21/2021	
							N/A	YES	NO
1. Are airbills	/ shipping	documents present and/or	removable	?					
Tracking number: 2815 9831 3879								Х	
		shipping containers intact?					Х		
3. Are custody	seals on	sample containers intact?					Х		
4. Is there a CO	JC (chair	-of-custody) present?						Х	
5	-	ent with samples received? equested analyses, etc.)	(IDs, dates,	times, #	≠ of sam	ples, # of		х	
6. Are short-he	old samp	les present?							Х
7. Are all same	oles withi	n holding times for the requ	ested analy	ses?				Х	
8. Were all sar	nple con	tainers received intact? (not	t broken or	leakin	g)			Х	
9. Is there suff	icient sa	mple for the requested analy	yses?					Х	
10. Are samples Guidelines)	s in prope	er containers for requested a	analyses? (fo	orm 250	, Sample H	landling		х	
11. Are all aque	ous sam	oles preserved correctly, if re	equired? (ex	xcludin	ıg volatil	es)	Х		
	Are all samples requiring no headspace (VOC, GRO, RSK/MEE, radon) free of bubbles > 6 mm (1/4 inch) diameter? (i.e. size of green pea)								
^{13.} Were the sa	mples sh	hipped on ice?							Х
^{14.} Were cooler	temperati	ures measured at 0.1-6.0°C?	IR gun used*:	#5			RAD ONLY		Х
(Cooler #:	1					<u> </u>		
Temperat	ure (°C):	AMB							
# of custody seals		0							
External µR/h									
Background µR/ł	-								
Were external µ	R/hr reading	s ≤ two times background and within D	OT acceptance	criteria?	YES / NO	/NA (If no, s	ee Form 00	8.)	
* Please provide	details he	re for NO responses to boxes ab	ove - for 2 th	ru 5 & 7	' thru 12,	notify PM &	continue	w/ login.	
· · · ·		pH checked? YES / NA		nt dotti	e ID'S VS	ALS lab ID's			I JE
		ontacted? YES / NO / NA Contact	10-				Date/1	7/21/	/21
Project Manage	r Signatur	e / Date:	1 January 10				—		
Form 201r20 vla									

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SAMPLE SUMMARY REPORT

Analyses	Result	Oual	Report Limit Units	Dilution	Date Analyzed
Collection Date:	7/13/2021		Perce	ent Moisture:	
Legal Location:				Matrix: SOLI	D
Sample ID:	CHE-MP13835-130721-001P			Lab ID: 21074	404-1
Project:	205WY001 Rolling Stock # MP 13835			Work Order: 21074	404
Client:	Earth Services & Abatement			Date: 09-At	ıg-21

Analyses	Result	Qual L	imit	Units	Factor	Date Analyzed
PCBs		SW8082		Prep	Date: 7/30/2021	PrepBy:CPC
AROCLOR-1016	ND		3.8	MG/KG	6	8/6/2021 13:36
AROCLOR-1221	ND		7.6	MG/KG	6	8/6/2021 13:36
AROCLOR-1232	ND		3.8	MG/KG	6	8/6/2021 13:36
AROCLOR-1242	ND		3.8	MG/KG	6	8/6/2021 13:36
AROCLOR-1248	ND		3.8	MG/KG	6	8/6/2021 13:36
AROCLOR-1254	ND		3.8	MG/KG	6	8/6/2021 13:36
AROCLOR-1260	ND		3.8	MG/KG	6	8/6/2021 13:36
Surr: TETRACHLORO-M-XYLENE	93	e	69-129	%REC	6	8/6/2021 13:36
Surr: DECACHLOROBIPHENYL	104	ŧ	55-135	%REC	6	8/6/2021 13:36

ALS -- Fort Collins

SAMPLE SUMMARY REPORT

Client:	Earth Services & Abatement				Date: 09-A	ug-21
Project:	205WY001 Rolling Stock # MP 13835				Work Order: 2107	404
Sample ID:	CHE-MP13835-130721-001P				Lab ID: 2107	404-1
Legal Location:					Matrix: SOL	ID
Collection Date:	7/13/2021			Perc	ent Moisture:	
Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Explanation of Q Radiochemistry:	yuanners					
Y1 - Chemical Yield is Y2 - Chemical Yield o W - DER is greater th * - Aliquot Basis is 'As # - Aliquot Basis is 'Du	ss than the sample specific MDC. in control at 100-110%. Quantitative yield is assumed. utside default limits. an Warning Limit of 1.42 Received' while the Report Basis is 'Dry Weight'. ry Weight' while the Report Basis is 'As Received'. Ifers by more than 15% of LCS density. an Control Limit	L - H N N B 3	activity is g - LCS Recover - LCS Recover - LCS, Matrix S - Matrix Spike C - Not Calcula - Analyte conc	reater than the y below lower or y above upper Spike Recovery Recovery outsi ated for duplicat entration greate	control limit. within control limits. de control limits te results less than 5 times	

Inorganics:

B - Result is less than the requested reporting limit but greater than the instrument method detection limit (MDL).

U or ND - Indicates that the compound was analyzed for but not detected.

E - The reported value is estimated because of the presence of interference. An explanatory note may be included in the narrative.

M - Duplicate injection precision was not met.

N - Spiked sample recovery not within control limits. A post spike is analyzed for all ICP analyses when the matrix spike and or spike duplicate fail and the native sample concentration is less than four times the spike added concentration.

Z - Spiked recovery not within control limits. An explanatory note may be included in the narrative.

* - Duplicate analysis (relative percent difference) not within control limits.

S - SAR value is estimated as one or more analytes used in the calculation were not detected above the detection limit.

Organics:

U or ND - Indicates that the compound was analyzed for but not detected.

B - Analyte is detected in the associated method blank as well as in the sample. It indicates probable blank contamination and warns the data user.

E - Analyte concentration exceeds the upper level of the calibration range.

J - Estimated value. The result is less than the reporting limit but greater than the instrument method detection limit (MDL).

A - A tentatively identified compound is a suspected aldol-condensation product.

- X The analyte was diluted below an accurate quantitation level.
- * The spike recovery is equal to or outside the control criteria used.
- + The relative percent difference (RPD) equals or exceeds the control criteria.
- G A pattern resembling gasoline was detected in this sample.
- D A pattern resembling diesel was detected in this sample.
- M A pattern resembling motor oil was detected in this sample.
- C A pattern resembling crude oil was detected in this sample.
- 4 A pattern resembling JP-4 was detected in this sample.
- 5 A pattern resembling JP-5 was detected in this sample.
- H Indicates that the fuel pattern was in the heavier end of the retention time window for the analyte of interest.
- L Indicates that the fuel pattern was in the lighter end of the retention time window for the analyte of interest.
- Z This flag indicates that a significant fraction of the reported result did not resemble the patterns of any of the following petroleum hydrocarbon products: gasoline
- JP-8
- diesel
- mineral spirits
- motor oil
- Stoddard solvent - bunker C

ALS -- Fort Collins

Client:	Earth Services & Abatement
Work Order:	2107404
Project:	205WY001 Rolling Stock # MP 13835

QC BATCH REPORT

Batch ID: EX210730-3-1	Instrument ID: Pes	st-1		Method: S	W8082						
LCS Sample ID: EX210730	-3			U	nits: MG/K	G	Analy	sis Date: 8	/6/2021	14:13	
Client ID:	Run II	D: PT210806-1	1			F	Prep Date: 7/3	0/2021	DF	: 1	
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qua
AROCLOR-1016	0.133	0.0333	0.133		99	80-120				50	
AROCLOR-1260	0.137	0.0333	0.133		103	80-125				50	
Surr: TETRACHLORO-M-XYLENE	0.0152		0.0167		91	69-129					
Surr: DECACHLOROBIPHENYL	0.0187		0.0167		112	55-135					
LCSD Sample ID: EX210730	-3			U	nits: MG/K	G	Analy	sis Date: 8	/6/2021	14:32	
Client ID:	Run II	D: PT210806-1	1			F	Prep Date: 7/3	0/2021	DF	: 1	
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qua
AROCLOR-1016	0.125	0.0333	0.133		94	80-120		0.133	6	50	
AROCLOR-1260	0.131	0.0333	0.133		99	80-125		0.137	4		
Surr: TETRACHLORO-M-XYLENE	0.015		0.0167		90	69-129			1		
Surr: DECACHLOROBIPHENYL	0.0178		0.0167		107	55-135			5		
MB Sample ID: EX210730	-3			U	nits: MG/K	G	Analy	sis Date: 8	/6/2021	11:25	
Client ID:	Run II	D: PT210806-1	1			F	Prep Date: 7/3		DF		
Analyte	Result	ReportLimit									Qua
AROCLOR-1016	ND	0.033									
AROCLOR-1221	ND	0.067									
AROCLOR-1232	ND	0.033									
AROCLOR-1242	ND	0.033									
AROCLOR-1248	ND	0.033									
AROCLOR-1254	ND	0.033									
AROCLOR-1260	ND	0.033									
	0.0150					00.400					
Surr: TETRACHLORO-M-XYLENE	0.0158				95	69-129					

The following samples were analyzed in this batch:

2107404-1

Appendix 3 - Modified Sawyer Algorithm

Report Date	08/10/2021
Rolling Stock Type	Caboose
Rolling Stock No	MP 13835

SAWYER ALGORITHM PRIORITY

Asbestos Potential Exposure and Priority Level Algorithm

Aspestos Potential Exposure and Prior Asset Number		MP 13835
Exposure Area	Interior walls and ceiling□	Interior water tank
Asbestos Containing Material	White coating	White coating
Sample Number	CHE-MP13835-130721-004 thru 006	CHE-MP13835-130721-013 thru 015
Size	NA	NA
Quantity	567 SF	102 SF
MATERIAL CONDITION (MC) 0 =No damage, excellent condition 1 =Very minor damage, no visible debris 2 =Damage is evident, small area 3 =Damage is easily seen, some debris 4 =Damage is widespread, debris is common 5 =Most or all material is damaged, hanging, and / or found as debris throughout the area	1	11
BUILDING AGE (BA) 1 =>30 years old 0 =15 - 30 years old -1 =<15 years old	1	1
MATERIAL TYPE Pipe Covering (PC)	NA	NA
1 =MAG/CAL Silicate -1 =Air Cell / paper	NA	NA
Ceiling Plasters or Fireproofing (CP) -1 =Cementitious (Monocoat) 0 =Standard 1 ="Cotton Candy" texture	NA	NA
WATER DAMAGE (WD)	0	0
 0 =No water damage 1 =Small amount of damage can be seen; damage is localized rather than widespread 2 =Good deal of water damage; widespread 		
ROOF CHARACTERISTICS (RC) -0.5 =Sloped or Hipped -0.5 =Sletal or Concrete 0.5 =Flat or Built-up	-0.5	-0.5
EXPOSED SURFACE AREA (ESA) 0 =Material behind a permanent enclosure 2 =Material behind a lay-in ceiling or in open tunnel 4 =Material is exposed	4	4
ACCESSIBILITY (AC) 0 =Totally inaccessible 1 =Can only reach with hands, ie. pipe chase 2 =An open tunnel or above a drop ceiling 3 =Exposed overall, but can't reach, ie. >10' high 4 =Material is out in the open and <10' high	4	4
ACTIVITY AND MOVEMENT (A/M) 0 =No occupants enter the area 1 =Area is accessed infrequently	2	2
2 =Area is accessed frequently WORK ENVIRONMENT (WE)	0.5	0.5
-0.5 =Sedentary 0.5 =Non-sedentary		
SOUND AND MECHANICAL VIBRATIONS (SMV) 0.5 =Frequent or Constant -0.5 =No recognizable vibration	0.5	0.5
AIR - PLENUM / AIR STREAM (AP) 0 =No air plenum or air flow 1 =Air plenum or air flow exists	1	1
VELOCITY (if Air Plenum = 1) (VEL) 0.25 =Recognizable by human feeling -0.25 =Non-recognizable by human feeling	-0.25	-0.25
FLOW (if Air Plenum = 1) (FL) -0.25 =Constant, steady stream 0.25 =Impact, gusty flow	NA	NA
FRIABILITY (F) 1 = Very hard to crumble under hand pressure 2 = Will crumble under a little hand pressure 3 =Extremely easy to crumble under light pressure	1	1
ASBESTOS CONTENT (ASB) 0 =None <1% 1 =1% to 10% Asbestos 2 =11% to 10% Asbestos 3 =51% to 100% Asbestos	1	1
Exposure Value	13.25	13.25
Rating	4	4

Rating

SAWYER ALGORITHM PRIORITY

Asbestos Potential Exposure and Priori

Asbestos Potential Exposure and Prior	ri	
Asset Number		MP 13835
Exposure Area	Interior around furnace	Interior door frames
Asbestos Containing Material	Gray transite boards⊡	Gray door sealant⊡
Sample Number	CHE-MP13835-130721-016 thru 018	CHE-MP13835-130721-019 thru 021
Size	NA	NA
Quantity	24 SF	34 LF
MATERIAL CONDITION (MC) 0 =No damage, excellent condition 1 =Very minor damage, no visible debris 2 =Damage is evident, small area 3 =DDamage is easily seen, some debris 4 =Damage is widespread, debris is common 5 =Most or all material is damaged, hanging, and / or found as debris throughout the area	1	1
BUILDING AGE (BA) 1 =>30 years old 0 =15 - 30 years old -1 =<15 years old	1	1
MATERIAL TYPE		
Pipe Covering (PC) 1 =MAG/CAL Silicate -1 =Air Cell / paper	NA	NA
Ceiling Plasters or Fireproofing (CP) -1 =Cementitious (Monocoat) 0 =Standard 1 ="Cotton Candy" texture	NA	NA
WATER DAMAGE (WD)	0	0
0 =No water damage 1 =Small amount of damage can be seen; damage is localized rather than widespread 2 =Good deal of water damage; widespread		·
ROOF CHARACTERISTICS (RC)	-0.5	-0.5
-0.5 =Sloped or Hipped -0.5 =Metal or Concrete 0.5 =Flat or Built-up		
EXPOSED SURFACE AREA (ESA) 0 =Material behind a permanent enclosure 2 =Material behind a lay-in ceiling or in open tunnel 4 =Material is exposed	4	4
ACCESSIBILITY (AC) 0 =Totally inaccessible 1 =Can only reach with hands, ie. pipe chase 2 =An open tunnel or above a drop ceiling 3 =Exposed overall, but can't reach, ie. >10' high	4	4
4 =Material is out in the open and <10' high ACTIVITY AND MOVEMENT (A/M)	2	2
0 =No occupants enter the area 1 =Area is accessed infrequently 2 =Area is accessed frequently	L Ł	L2
WORK ENVIRONMENT (WE) -0.5 =Sedentary 0.5 =Non-sedentary	0.5	0.5
SOUND AND MECHANICAL VIBRATIONS (SMV) 0.5 =Frequent or Constant -0.5 =No recognizable vibration	0.5	0.5
AIR - PLENUM / AIR STREAM (AP) 0 =No air plenum or air flow 1 =Air plenum or air flow exists	1	1
VELOCITY (if Air Plenum = 1) (VEL) 0.25 =Recognizable by human feeling -0.25 =Non-recognizable by human feeling	-0.25	-0.25
FLOW (if Air Plenum = 1) (FL) -0.25 =Constant, steady stream 0.25 =Impact, gusty flow	NA	NA
FRIABILITY (F) 1 = Very hard to crumble under hand pressure 2 = Will crumble under a little hand pressure 3 = Extremely easy to crumble under light pressure	1	1
ASBESTOS CONTENT (ASB)	2	1
0 =None <1% 1 =1% to 10% Asbestos 2 =11% to 50% Asbestos 3 =51% to 100% Asbestos		
Exposure Value	26.5	13.25
Pating		

3

4

SAWYER ALGORITHM PRIORITY

Asbestos Potential Exposure and Priori

Asbestos Potential Exposure and Priori		
Asset Number	MP 13835	MP 13835
	Exterior roof and wall joint along	Exterior large windows on popout
Exposure Area	ends	
•		
Asbestos Containing Material	Gray roof seam sealant	Gray window caulk□
Sample Number	CHE-MP13835-130721-022 thru 024	CHE-MP13835-130721-025 thru 027
Size	NA	NA
Quantity	18 LF	18 LF
MATERIAL CONDITION (MC)	1	1
 0 =No damage, excellent condition 1 =Very minor damage, no visible debris 2 =Damage is evident, small area 3 =Damage is evidespread, debris 4 =Damage is widespread, debris is common 5 =Most or all material is damaged, hanging, and / or found as debris throughout the area 		
BUILDING AGE (BA)	1	1
1 =>30 years old 0 =15 - 30 years old		
-13 - 30 years old $-11 = -15$ years old		
MATERIAL TYPE		
Pipe Covering (PC)	NA	NA
1 =MAĞ/CAL Silicate -1 =Air Cell / paper	·	<u>ــــــــــــــــــــــــــــــــــــ</u>
Ceiling Plasters or Fireproofing (CP)	NA	NA
-1 =Cementitious (Monocoat) 0 =Standard 1 ="Cotton Candy" texture		
WATER DAMAGE (WD)	0	0
0 =No water damage 1 =Small amount of damage can be seen; damage is localized rather than widespread 2 =Good deal of water damage; widespread		
ROOF CHARACTERISTICS (RC)	-0.5	-0.5
-0.5 =Sloped or Hipped -0.5 =Metal or Concrete 0.5 =Flat or Built-up	-0.5	-0.5
EXPOSED SURFACE AREA (ESA)	4	4
0 =Material behind a permanent enclosure 2 =Material behind a lay-in ceiling or in open tunnel 4 =Material is exposed	i	
ACCESSIBILITY (AC)	3	3
0 =Totally inaccessible 1 =Can only reach with hands, ie. pipe chase 2 =An open tunnel or above a drop ceiling 3 =Exposed overall, but can't reach, ie. >10' high 4 =Material is out in the open and <10' high		
ACTIVITY AND MOVEMENT (A/M)	1	1
0 =No occupants enter the area 1 =Area is accessed infrequently 2 =Area is accessed frequently		
WORK ENVIRONMENT (WE)	0.5	0.5
-0.5 =Sedentary 0.5 =Non-sedentary	0.5	0.5
SOUND AND MECHANICAL VIBRATIONS (SMV)	0.5	0.5
0.5 =Frequent or Constant -0.5 =No recognizable vibration		
AIR - PLENUM / AIR STREAM (AP) 0 =No air plenum or air flow	1	1
1 =Air plenum or air flow exists	· · · · · · · · · · · · · · · · · · ·	
VELOCITY (if Air Plenum = 1) (VEL) 0.25 =Recognizable by human feeling -0.25 =Non-recognizable by human feeling	0.25	0.25
FLOW (if Air Plenum = 1) (FL)	0.25	0.25
-0.25 =Constant, steady stream 0.25 =Impact, gusty flow	0.20	0.20
FRIABILITY (F)	1	1
 1 =Very hard to crumble under hand pressure 2 = Will crumble under a little hand pressure 3 =Extremely easy to crumble under light pressure 		•
ASBESTOS CONTENT (ASB)	1	1
0 =None <1% 1 =1% to 10% Asbestos 2 =11% to 50% Asbestos 3 =51% to 100% Asbestos	·	
Exposure Value	12	12
Rating	4	4



www.esasite.com

Specializing in environmental services and demolition

July 28th, 2021

Union Pacific Railroad Asbestos Program c/o GHD 3807 South 148th Street Omaha, NE 68144

RE: WY, Cheyenne, Rollingstock RI 17017, Requested NESHAP Inspection Earth Services & Abatement Project Number: 215WY001

To Whom It May Concern,

Please find our NESHAP report for the above-mentioned requested inspection. Earth Services & Abatement's Joseph Kulm inspected UPRR railcar RI 17017 for suspect asbestos-, lead-, and PCB-containing materials. The inspection work took place on July 15th, 2021.

No previous reports were provided for review prior to inspection.

Refer to the report for a summary of this inspection, including inspection/lab results, inspection photographs, and schematics.

If you have any questions or need anything else for this project, please do not hesitate to contact us.

Conducted by,

Jospeh Kulm Inspector Earth Services & Abatement

Reviewed by,

Syplie

Robert Szynskie Program Director Earth Services & Abatement Robert.szynskie@esasite.com Cell – 720-206-9238

UNION PACIFIC	Rolling Stock	Asb	estos Ins	pection	Report		
				Inspec	tion Start Date	07/15/20	121
BUILDING AMERICA [®] Inspection Type				Inspec	tion End Date	07/15/20	121
X Initial Inspection	Reinspection	X NE	SHAP Inspecti	ion Repor	t Date	07/28/20	21
Inspection Comp	•			10000			
· · · ·	ervices & Abatement		License No.				
Address 6700 E 50	Oth Ave			mmerce City			
			State CC) Z	ip <u>80022</u>		
Inspector Informa First Name Joseph		Las	t Name K	ulm			
License Type AHE	ERA License No. C	C6LEMQ	A0R3U	Lice	nse State		
Asset Information	າ						
Rolling Stock Type	Caboose						
Rolling Stock No	RI 17017		Car Name	RI 1701	7		_
Yard Name	Cheyenne		Subdivision	Unknow	'n		_
Address	East Union Pacific Ave.		Mile Post	Unknow	'n		_
City	Cheyenne		Latitude	41.1302	44°		_
State	WY		Longitude	-104.81	4762°		_
Zip Code	82001						
Key Contacts							
Name	Phone Number	Comp	any		Role/Responsibilit	у	
Kulm,Joseph	303-991-1280	Earth	Services & Ab	patement	Inspector		
Szynskie,Robert	303-991-1280	Earth	Services & Ab	patement	Program Director		
Dic,Edgar	307-214-3545	UPRF	R		Local Contact		
Inspection Limita	tions						
was limited by the u	ere made to conduct a comp se of hand-tools and some a ole. If additional suspect mat may be required.	additiona	al suspect mate	erials may be	present in areas n	ot	

UN PAC		Rolling Stoc	ck Asbestos Inspec	tion Rep	ort R	eport Date	07/28/2021	
		_			Rolling	Stock Type	Caboose	
BUILDING					Rollin	g Stock No	RI 17017	
	estos Results							
ACM Pr		Total Number of	f ACM Components. ¹ 2					
Total N	umber of Materials Containir	ng <= 1% Asbestos.	0					
Notes		-						
	lease note the material desc etails.	riptions herein are more d	escriptive than that on the chain	-of-custody in a	order to provid	de distinguis	shing material	
	Asbestos Sam	ples					1	
Sample Date	Sample ID	Description	Location	Asbestos Result ²	ACM Category	Friable	Quantity	Modified Algorithm Number
Date	Sample ID CHE-RI17017-150721-0 01 thru 003	Description White window glazing	Location Exterior windows			Friable	Quantity 24 LF	Algorithm
Sample Date 7/15/2021 7/15/2021	CHE-RI17017-150721-0	· ·		Result ²	Category			Algorithm Number

1 "ACM Present" is defined as material with >1% asbestos, except in California, where Asbestos-Containing Construction Material (ACCM) is defined as >0.1% asbestos.

2 For samples collected in sets, only the highest result is reported. Some of the collected samples may not have been analyzed. See the attached laboratory report for additional details.

3 "Lead Present" and "Positive" is defined as paint with $\geq 0.5\%$ lead.

4 "PCBs Present" and "Positive" is defined as caulk with \geq 50 ppm PCBs.

Lead-Base Lead Present ³ Notes	ed Paint Results Yes Total Nu	mber of Positive Components. ³ _3			
	Paint Samples				
Sample Date	Sample ID	Description	Location	Lead Result	Condition
7/15/2021	CHE-RI17017-150721-001L	Green	Interior	1.4 %	Good
7/15/2021	CHE-RI17017-150721-002L	Yellow	Exterior ends	15 %	Poor
7/15/2021	CHE-RI17017-150721-003L	Red	Exterior roof and exterior sides	0.42 %	Poor
7/15/2021	CHE-RI17017-150721-004L	Black	Undercarriage	3.7 %	Poor
7/15/2021	CHE-RI17017-150721-005L	White/Gray/Silver	Exterior handrails	0.22 %	Poor
PCBs Present ⁴ Notes Mold Resu Suspect Mold F		mber of Positive Components. ⁴ 0			
Notes					



Rolling Stock Asbestos Inspection Report Asset Photos Report Date 07/28/2021

BUILDING AMERICA



Railcar ID marking



View of railcar, looking north

Report Date 07/ Rolling Stock Type Ca

Caboose

Rolling Stock No RI 17017



View of railcar, looking west-southwest



Railcar interior



Rolling Stock Asbestos Inspection Report Sample Photos Report Date 07/28/2021

BUILDING AMERICA**



CHE-RI17017-150721-001 thru 003, 1.75% Asbestos, White window glazing



CHE-RI17017-150721-001 thru 003, Asbestos Not Detected, Silver coating



CHE-RI17017-150721-004 thru 006, 15% Asbestos, Black fire proofing

Rolling Stock Type

0.1

Caboose

Rolling Stock No RI 17017



CHE-RI17017-150721-001 thru 003, 1.75% Asbestos, White window glazing



CHE-RI17017-150721-001 thru 003, Asbestos Not Detected, Silver coating



CHE-RI17017-150721-004 thru 006, 15% Asbestos, Black fire proofing



Rolling Stock Asbestos Inspection Report Sample Photos Report Date 07/28/2021

BUILDING AMERICA"



CHE-RI17017-150721-001L, 1.4% Lead, Green



CHE-RI17017-150721-002L, 15% Lead, Yellow



CHE-RI17017-150721-003L, 0.42% Lead, Red

Report Date

Caboose

Rolling Stock No RI 17017



CHE-RI17017-150721-001L, 1.4% Lead, Green



CHE-RI17017-150721-002L, 15% Lead, Yellow



CHE-RI17017-150721-003L, 0.42% Lead, Red



Rolling Stock Asbestos Inspection Report Sample Photos Report Date 07/28/2021



CHE-RI17017-150721-004L, 3.7% Lead, Black

Rolling Stock Type Caboose

Rolling Stock No RI 17017

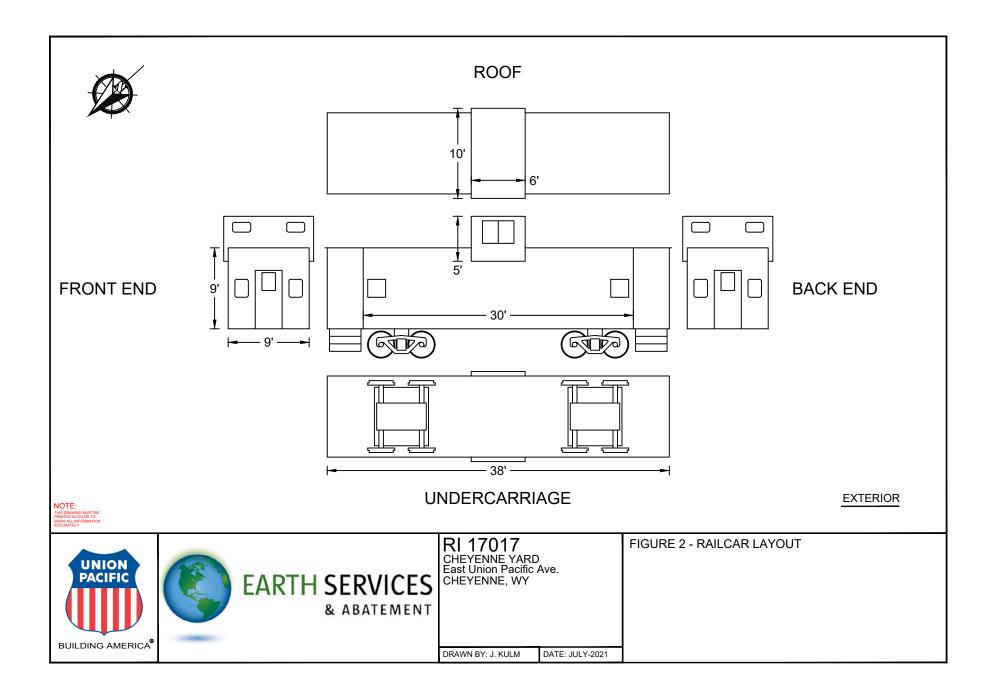
ASSISTENT TEXAS DU

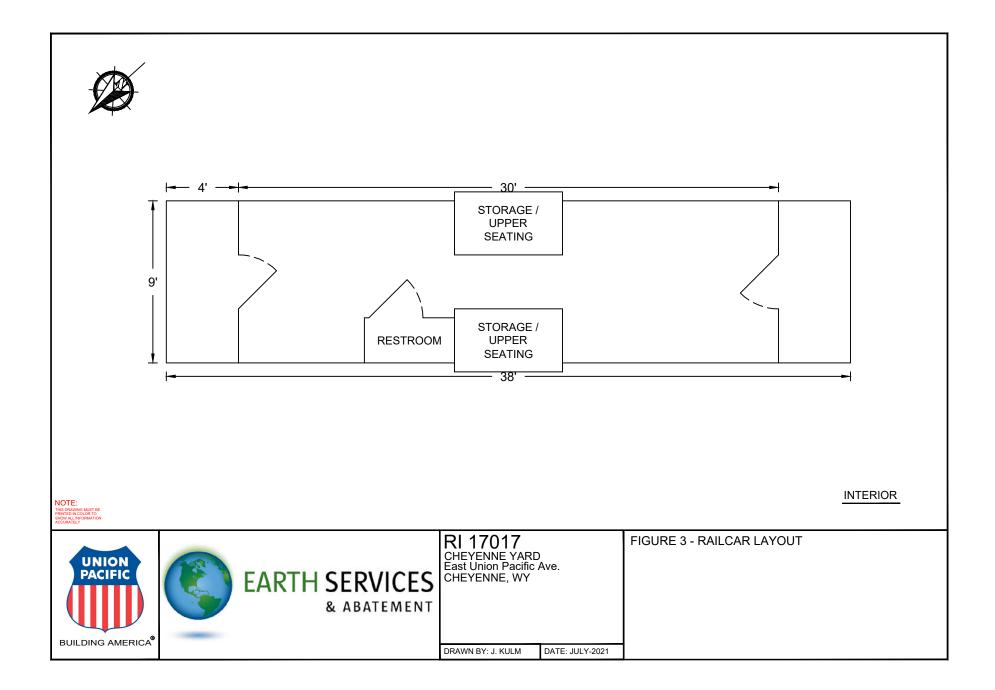
CHE-RI17017-150721-004L, 3.7% Lead, Black

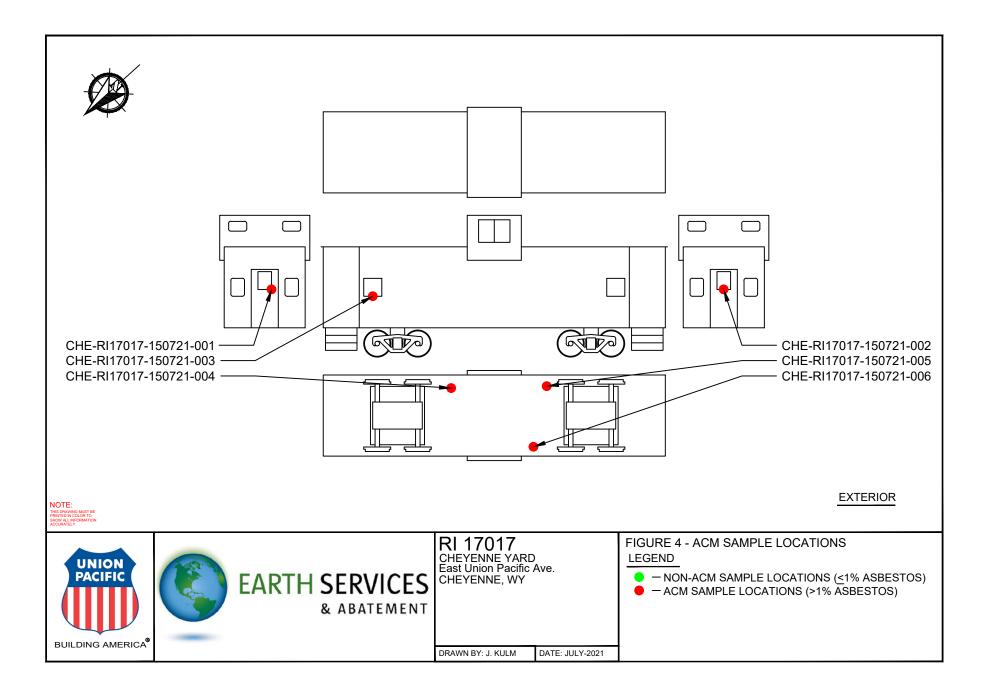
Appendix 1 - Figures

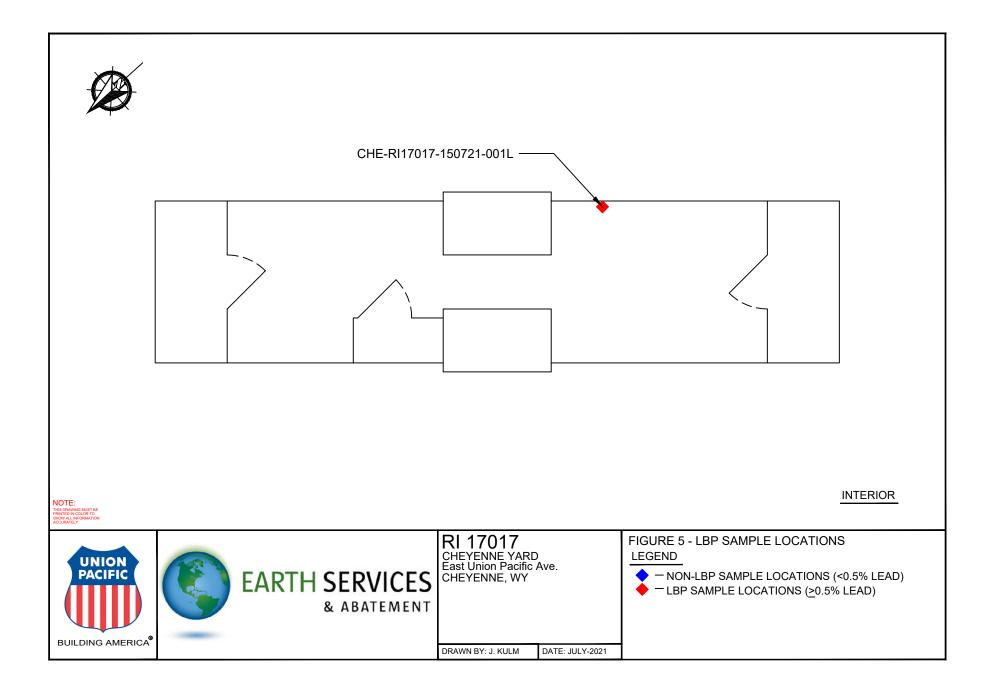
Report Date07/28/2021Rolling Stock TypeCabooseRolling Stock NoRI 17017

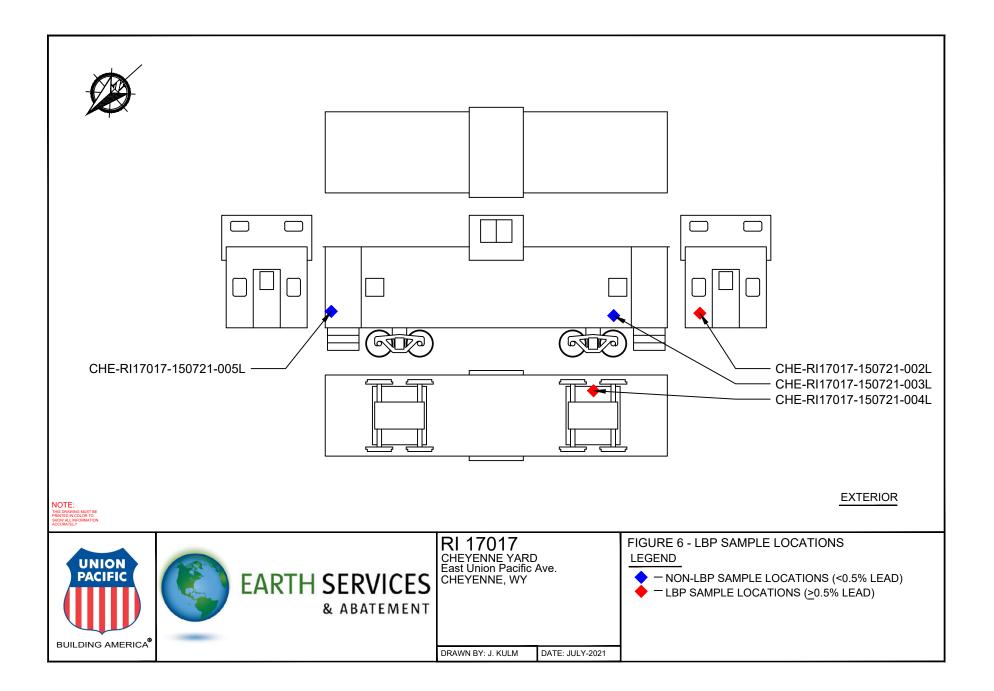


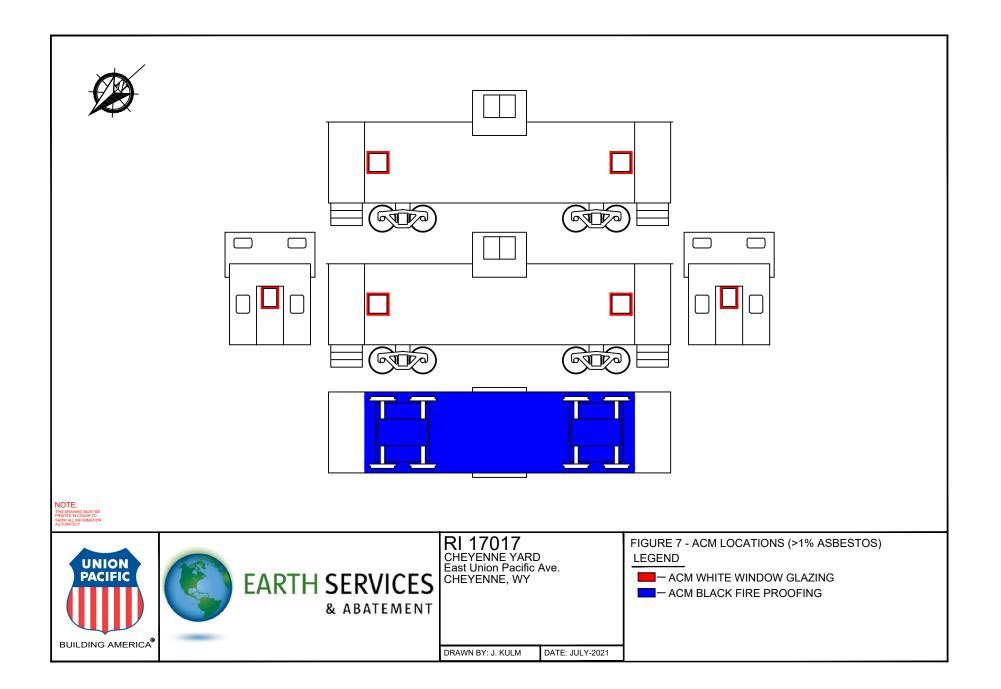












Appendix 2 - Lab Reports and Chain of Custody Receipts

Report Date	07/28/2021
Rolling Stock Type	Caboose
Rolling Stock No	RI 17017

Eurofins J3 Resources, Inc.

3113 Red Bluff Road, Pasadena, TX 77503 Phone: (713) 290-0223 - Fax: (713) 290-0248 *J3Resources.com*



Bulk Asbestos Fiber Analysis by Polarized Light Microscopy (PLM) EPA 600/M4-82-020; 600/R-93/116 - Point Count Method

Joseph Kulm Earth Services & Abatement, Inc. 6700 E. 50th Avenue Commerce City CO 80022
 Order #:
 JH21129263

 Project #:
 215WY001

 Date Received:
 21-Jul-2021

 Date Analyzed:
 22-Jul-2021

 Date Reported:
 22-Jul-2021

RI 17017 WY Rollingstock Inspections

Sample ID #	Sample Description	Asbestos Constituents	S	Non-Asbestos Constituents	
CHE-RI17017- 150721-001	LAYER 1 Sealant, Silver, Homogeneous	None Detected		Non-Fibrous Material	100%
	LAYER 2 Window Glazing, White, Homogeneous Original PLM Result: 2% Chrysotile	Chrysotile	1.25%	Talc Non-Fibrous Material	2% 96.75%
400 pt. POINT COUNT	-				
CHE-RI17017- 150721-002	LAYER 1 Sealant, Silver, Homogeneous	None Detected		Non-Fibrous Material	100%
	LAYER 2 Window Glazing, White, Homogeneous Original PLM Result: 2% Chrysotile	Chrysotile	1.75%	Talc Non-Fibrous Material	2% 96.25%
400 pt. POINT COUNT					
CHE-RI17017- 150721-003	LAYER 1 Sealant, Silver, Homogeneous	None Detected		Non-Fibrous Material	100%
	LAYER 2 Window Glazing, *Not analyzed per clien request	t			
400 pt. POINT COUNT					
CHE-RI17017- 150721-004	Fire Proofing, Black, Homogeneous	Chrysotile	15%	Non-Fibrous Material	85%
CHE-RI17017- 150721-005	Fire Proofing, *Not analyzed per client request				
CHE-RI17017- 150721-006	Fire Proofing, *Not analyzed per client request				

Scott Ward, Ph.D. Lab Director

TDSHS License: 30-0457

Page 1 of 1

Arnold Flores

Analyst

NVLAP Lab Code: 600120-0

These results apply to the sample(s) as received. This report is for the exclusive use of the addressed client and shall not be reproduced except in full, without written approval by Eurofins J3 Resources, Inc. (EJ3). Samples are analyzed according to the methods listed above and are subject to the inherent limitations of PLM and interference of matrix components. Reporting limit for the above method is a function of the quantity of sample analyzed, matrix interference, sample preparation, fiber size, and distribution. Asbestos may be detected in concentrations of <1% by area if sufficient material is analyzed. EJ3 recommends TEM confirmation of soils, verniculite and non-friable organically bound materials (NOB) reported as None Detected or < 1% Asbestos by PLM. All samples received in good condition unless otherwise noted. This report shall not be used to claim product approval, certification, or endorsement by NVLAP, NIST, or any agency of the federal government.

AIHA-LAP, LLC Lab ID: 157714

IH CHAIN OF CUSTODY

se only)



Submitter Name:	Joseph Kulm				Bill to:	SA	ME				
Сотрапу:	Earth Service	s & Aba	atement		Address	·					
Address:	6700 E. 50th	Ave.									
					City/Stat	e:			Zip:		
City/State: Col	mmerce City, C	:0	Zip: ⁸⁰⁰²	2	1	PO #: 215WY001 - RI 17017					
			· · · · · · · · · · · · · · · · · · ·		nformat						111
Project Name: WY I	Rollingstock In	spectio	ons		Proje	ct Manag	ger: Ama	nda Woza	ab		
Project #: 215WY0	01 - RI 17017				Telep	hone – (Office/Ce	II 402.578	3.6858	8	
Reports - Email Address: Amanda.Wozab@ESASite.com; Joseph.Kulm@ESAsite.com											
Invoice - Email Add	ress: Same as	above	9		Noti	fication E	By: Em	ail: 🔳	Verb	pal: 🛛	Text: 🛛
Special Instructions: 1) 400 Point Count, GR when applicable; at >1% AND ≤5% 2) PC,GR >1% AND ≤1.49%; no positive stop										ositive stop	
			Turnaround	Times	i — Pleas	e Selec	t One				
Emergency*	0 1	Day		2 Day			3 Day	Ø		5 Day	/ 🛛
				ASB	ESTOS	e e					
PLM - Bulk	PCM -	Air	TEM - Air	TER	4 - Bulk	TEM ·	Water	TEM - C)ust		M/PLM miculite/Ore
 EPA 600/R-93/116 Visual Estimation (< 400 Point Count 0.2 1,000 Point Count 0 Gravimetric Reducti Matrix Reduction (+, NIOSH 9002 OSHA ID-191 	(<1%) ASTM D7201 0.25% ISO 8672 at 0.1% OSHA ID-160 action ISO 8672		O ASTM D6281 O ISO 10312 O ISO 13794 ○ Matrix Reduc O Qualit		uction (<1%) ix uction (+/-) itative (+/-) ip Mount	on (<1%) Drinking Water ○ >10 μm fibers ○ ≥0.5 μm fibers ive (+/-) ○ EPA 100.2 Effluent / WW		Microva ASTM E Wipe 600/J-9: Carpet - O Bulk Du	 ASTM D5755 Microvac ASTM D6480 Wipe 600/J-93/167 Carpet - EPA Bulk Dust Qualitative 		521-TEM (+/-) 521-TEM (<1%) 35-Modified .M Only (+/-) ite - TEM (+/-) ite-Cincinnati D
			METALS						PA	RTICUL	ATES
Flame	A A	Gra	aphite Furnace / LEAD	4A -		ICP				Gravimet	ric
O Lead in Paint - \$W846 7420/3050B O Drinking Water - EPA 200.9 O Lead in Air - NIOSH 7082 O Wastewater - \$W846-7421 O Lead in Wipes - \$W846 7420/3050B O Soil/Sludge - \$W846-7421 O Lead in Soil - \$W846 7420/3050B O Air - NIOSH 7105			O Elements in Air – NIOSH 7300 O NIOSH 0500 – Total Particulates O Wipe/Soil – SW846-6010B O NIOSH 0600 – Respirable Particulates O Effluent – SW846-6010B O NIOSH 0600 – Respirable Particulates O Welding Fume – NIOSH 7300M O TCLP – SW846-1311/6010B								
Total Number o	f Samples	Subm	litted: 6		Positive	e Stop:		YES		NO	
			And S. An	Sign	atures						
Relinquished By:	Amf &	11			m		Date	-10	1 1 / 1	_ Time:	8.02
Received By:	<u> </u>				<u> </u>	e	Date		10	Time:	0.00
Relinquished By:					V		Date			_ Time:	
Received By:							Date	;		Time:	

* Emergency TAT requires prior lab notification. All samples analyzed outside normal business hours are charged at Emergency rate. **TAT's are in Business Days rather than Hours (i.e.1 Day TAT = End of Next Business Day)

IH CHAIN OF CUSTODY

Project Name/Number_215WY001 - RI 17017

Page _____ of ____

SAMPLE IDENTIFICATION

SAMPLE NUMBER	SAMPLE LOCATION / MATERIAL VOLUME							
CHE-RI17017-150721-001	Window Glazing							
CHE-RI17017-150721-002	и и							
CHE-RI17017-150721-003	и и							
CHE-RI17017-150721-004	Fireproofing, Black							
CHE-RI17017-150721-005	11 11							
CHE-RI17017-150721-006	н							
Comments/Special Instructions: 1) 400 Point Count (25%), GR when applicable; at >1% AND ≤5% 2) 400 Point Count/GR >1% AND ≤1.49%; no positive stop								

Eurofins J3 Resources, Inc.

3113 Red Bluff Road Pasadena, Texas 77503 Phone: (713) 290-0223 – Fax: (832) 831-5669 *j3resources.com*



J3 Resources

<u>Lead in Paint Performed by</u> Flame AA – USEPA SW846 7420/3050B (Mod.)

Amanda Wozab Earth Services & Abatement, Inc. 6700 E. 50th Avenue Commerce City, CO 80022

nc. Order #: JP211028591 Project #: 215WY001 Receipt Date: 21-Jul-2021 Analysis Date: 22-Jul-2021 Report Date: 23-Jul-2021 WY Rollingstock Inspections-RI 17017

LEAD LEAD **SAMPLE** PAINT **CONCENTRATION CONCENTRATION** ID **COLOR** (mg/kg) (%) CHE-RI17017-150721-001L 14000 1.4% Green CHE-RI17017-150721-002L Yellow 150000 15% CHE-RI17017-150721-003L Red 4200 0.42% CHE-RI17017-150721-004L 37000 3.7% Black CHE-RI17017-150721-005L White/Silver/Gray 2200 0.22%

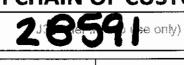
Reporting Limit = 50.0 mg/kg N/A = Not Applicable INS = Insufficient Sample Weight NS = Not Submitted

Analyst: Shervin Aghaabbasi

Scott Ward, Ph.D. Lab Director

This report relates only to the samples submitted. The analysis has been conducted according to the method(s) listed above. Blank corrections are not applied to data unless requested by the customer. This report is for the exclusive use of the addressed customer and shall not be reproduced except in full without written approval by Eurofins J3 Resources, Inc. (EJ3). EJ3 is an EPA NLLAP recognized lab by the AIHA-LAP, LLC ELLAP (Lab ID: 157714). Unless otherwise noted, all quality control samples performed within specifications established by the laboratory. The estimated accuracy is solely based on recovery data from internal laboratory control samples at the 95% confidence interval of the level of concern, derived from a 287 mg/kg lead in paint matrix reference material. The estimated accuracy does not account for uncertainty associated with the sampling process. Accuracy = +/-9%

IH CHAIN OF CUSTODY





Submitter Name:	Joseph Ku	Im			Bill to:	SAME	-		
Company:	Earth Serv	ces & Ab	patement		Address:				
Address:	6700 E. 50	th Ave.							
					City/State	e:	z	ip:	
City/State: Co	mmerce City	/, CO	Zip: ⁸⁰⁰²	2	1	5WY001 - RI 170	17		
			there are a second and a second a		informat	ion			
Project Name: WY	Rollingstock	Inspecti	ons		Proje	ct Manager: Ama	inda Wozab		
Project #: 215WY	001 - RI 170	17			Telep	hone - Office/Ce	II 402.578.68	858	
Reports - Email Ad	ldress: Amai	nda.Woza	ab@ESASite.co	m; Jos	eph.Kulm@	ESAsite.com			
Invoice - Email Ado	dress: Same	e as abov	'e		Noti	fication By: Em	ail: 🗉 V	erbal: 🛛	Text: 🗆
Special Instructions	s:								
			Turnaround	Time	s — Pleas	e Select One	[]		
Emergency*		1 Day		2 Day	/ 🗆	3 Day	Z	5 Day	y 🗆
				ASB	ESTOS	A second se			
PLM - Bulk	PC	M - Air	TEM - Air	TE	M - Bulk	TEM - Water	TEM - Dus	21	M/PLM miculite/Ore
EPA 600/R-93/116 O NIOSH 7400 O Visual Estimation (<1%) ASTM D7201 O 400 Point Count 0.25% ISO 8672 O 1,000 Point Count 0.1% OSHA ID-160 O Matrix Reduction Matrix Reduction (+/-) O NIOSH 9002 OSHA ID-191		M D7201 8672	ASTM D6281 ASTM D6281 O Matrix Redu O ISO 10312 O Quali		Juction (<1%)		 ASTM D574 Microvac ASTM D644 Wipe 600/J-93/16 Carpet - EP/ Bulk Dust Qualitative 	O ASTM 7 80 O CARB 4 O Soil - Pl 37 O Vermicu	521-TEM (+/-) (521-TEM (<1%) I35-Modified LM Only (+/-) Ilite - TEM (+/-) Ilite-Cincinnati ID
			METALS					PARTICUL	ATES
Flame	AA	G	LEAD	AA -		ICP		Gravime	tric
			O Elements in Air – NIOSH 7300 O NIOSH 0500 – Total Particulates O Wipe/Soil – SW846-6010B O NIOSH 0600 – Respirable Particul O Effluent – SW846-6010B O NIOSH 0600 – Respirable Particul O Welding Fume – NIOSH 7300M O TCLP – SW846-1311/6010B						
Total Number	of Sample	is Subr	nitted: 5		Positivo	e Stop: 🛛	YES [⊐ NO	
Name Operation Adjust 1000000000000000000000000000000000000			The Country of the	Sigi	natures		7/40/04		
Relinquished By:	<u>Um</u>	Md				Date		Time:	$\overline{0.7}$
Received By:	1 VY	$\chi \chi$	enoye			Date	·+	<u>21</u> Time:	wa
Relinquished By:			0			Date Date		Time: Time:	
Received By:							,	i inte:	

* Emergency TAT requires prior lab notification. All samples analyzed outside normal business hours are charged at Emergency rate. **TAT's are in Business Days rather than Hours (i.e.1 Day TAT = End of Next Business Day)

IH CHAIN OF CUSTODY

Project Name/Number_215WY001 - RI 17017

Page _2___ of _2____

SAMPLE IDENTIFICATION

SAMPLE NUMBER	SAMPLE LOCATION / MATERIAL VOLUME
CHE-RI17017-150721-001L	Green
CHE-RI17017-150721-002L	Yellow
CHE-RI17017-150721-003L	Red
CHE-RI17017-150721-004L	Black
CHE-RI17017-150721-005L	White/Silver/Gray
	· · · · · · · · · · · · · · · · · · ·
Comments/Special Instructions:	

Appendix 3 - Modified Sawyer Algorithm

Report Date07/28/2021Rolling Stock TypeCabooseRolling Stock NoRI 17017

SAWYER ALGORITHM PRIORITY

Asbestos Potential Exposure and Priority Level Algorithm

Asbestos Potential Exposure and Prior		
Asset Number	RI 17017	RI 17017
Exposure Area	Exterior windows	Railcar undercarriage⊡
•		Block fire proofing
Asbestos Containing Material	White window glazing	Black fire proofing
Sample Number	CHE-RI17017-150721-001 thru 003	CHE-RI17017-150721-004 thru 006
Size	NA	NA
Quantity	24 LF	340 SF
MATERIAL CONDITION (MC) 0 =No damage, excellent condition 1 =Very minor damage, no visible debris 2 =Damage is evident, small area 3 =Damage is easily seen, some debris 4 =Damage is widespread, debris is common 5 =Most or all material is damaged, hanging, and / or found as debris throughout the area	3	2
BUILDING AGE (BA) 1 =>30 years old 0 =15 - 30 years old -1 =<15 years old	1	1
MATERIAL TYPE		
Pipe Covering (PC) 1 =MAG/CAL Silicate -1 =Air Cell / paper	NA	NA
Ceiling Plasters or Fireproofing (CP)	NA	NA
-1 =Cementitious (Monocoat) 0 =Standard 1 ="Cotton Candy" texture		
WATER DAMAGE (WD)	0	0
0 =No water damage 1 =Small amount of damage can be seen; damage is localized rather than widespread 2 =Good deal of water damage; widespread		
ROOF CHARACTERISTICS (RC) -0.5 =Sloped or Hipped -0.5 =Metal or Concrete 0.5 =Flat or Built-up	-0.5	-0.5
EXPOSED SURFACE AREA (ESA) 0 =Material behind a permanent enclosure 2 =Material behind a lay-in ceiling or in open tunnel	4	4
4 =Material is exposed		
ACCESSIBILITY (AC) 0 =Totally inaccessible 1 =Can only reach with hands, ie. pipe chase 2 =An open tunnel or above a drop ceiling 3 =Exposed overall, but can't reach, ie. >10' high 4 =Material is out in the open and <10' high	4	4
ACTIVITY AND MOVEMENT (A/M)	2	2
0 =No occupants enter the area 1 =Area is accessed infrequently 2 =Area is accessed frequently		
WORK ENVIRONMENT (WE)	0.5	0.5
-0.5 =Sedentary 0.5 =Non-sedentary		
SOUND AND MECHANICAL VIBRATIONS (SMV) 0.5 =Frequent or Constant -0.5 =No recognizable vibration	0.5	0.5
AIR - PLENUM / AIR STREAM (AP) 0 =No air plenum or air flow 1 =Air plenum or air flow exists	1	1
VELOCITY (if Air Plenum = 1) (VEL) 0.25 =Recognizable by human feeling -0.25 =Non-recognizable by human feeling	-0.25	-0.25
FLOW (if Air Plenum = 1) (FL) -0.25 =Constant, steady stream 0.25 =Impact, gusty flow	NA	NA
FRIABILITY (F) 1 = Very hard to crumble under hand pressure 2 = Will crumble under a little hand pressure	2	1
3 =Extremely easy to crumble under light pressure ASBESTOS CONTENT (ASB)	1	2
0 =None <1% 1 =1% to 10% Asbestos 2 =11% to 50% Asbestos 3 =51% to 100% Asbestos		
Exposure Value	30.5	28.5
Rating	3	3



www.esasite.com

Specializing in environmental services and demolition

August 17th, 2021

Union Pacific Railroad Asbestos Program c/o GHD 3807 South 148th Street Omaha, NE 68144

RE: WY, Cheyenne, Rollingstock SP 4641, Requested NESHAP Inspection Earth Services & Abatement Project Number: 215WY001

To Whom It May Concern,

Please find our NESHAP report for the above-mentioned requested inspection. Earth Services & Abatement's Joseph Kulm inspected UPRR railcar SP 4641 for suspect asbestos-, lead-, and PCB-containing materials. The inspection work took place on July 13th, 2021.

No previous reports were provided for review prior to inspection.

Refer to the report for a summary of this inspection, including inspection/lab results, inspection photographs, and schematics.

If you have any questions or need anything else for this project, please do not hesitate to contact us.

Conducted by,

Jospeh Kulm Inspector Earth Services & Abatement

Reviewed by,

Syplie

Robert Szynskie Program Director Earth Services & Abatement Robert.szynskie@esasite.com Cell – 720-206-9238

	C C		estos Inspe	ection	Report		
				Inspec	ction Start Date	07/13/202	21
BUILDING AMERICA* Inspection Type				Inspec	ction End Date	07/13/202	21
X Initial Inspection	Reinspection	X NE	SHAP Inspection	Repor	t Date	08/10/202	21
Inspection Comp	•						
Company Earth S	Services & Abatement		License No.	16608			
Address 6700 E 5	0th Ave		City Comm	erce City			
			State CO	Z	Zip 80022		
Inspector Informa	ation						
First Name Jospeh	1	Las	t Name Kulm				
License Type AHI	ERA License No.	C6LEMQ	A0R3U	Lice	nse State		
Asset Information	n						
Rolling Stock Type	Caboose						
Rolling Stock No	SP 4641		Car Name	SP 464	1		
Yard Name	Cheyenne		Subdivision		Unknown		
Address	East Union Pacific Ave.		Mile Post	Unknow	own		
City	Cheyenne		Latitude	41.1295	9569°		
State	WY		Longitude	-104.81	315450°		
Zip Code	82001						
Key Contacts							
Name	Phone Number	Comp	any		Role/Responsibili	ty	
Kulm,Joseph	303-991-1280	Earth	Services & Abate	ment	Inspector		
Szynskie,Robert	303-991-1280	Earth	Services & Abate	ment	Program Director		
Dickens,Edgar	307-214-3545	UPRF	R		Local Contact		

		Rolling Stoc	k Asbestos Inspect	tion Rep	ort R	eport Date	08/10/2021				
		C	•	-		Stock Type	Caboose				
BUILDING	AMERICA™				Rollin	g Stock No	SP 4641				
Asbestos Results											
ACM Pr		Total Number of	ACM Components. ¹ 6								
Total Nu Notes	umber of Materials Containin	g <= 1% Asbestos.	0		_						
Please note the material descriptions herein are more descriptive than that on the chain-of-custody in order to provide distinguishing material details. The wood identified in samples CHE-SP4641-130721-001 thru 003 is not considered a suspect material for asbestos.											
	Asbestos Sam	ples									
Sample Date	Sample ID	Description	Location	Asbestos Result ²	ACM Category	Friable	Quantity	Modified Algorithm Number			
07/13/2021	CHE-SP4641-130721-00 1 thru 003	Green rubber flooring (no mastic)	Floor throughout interior	Not Detected	N/A	N/A	240 sq. ft.	N/A			
07/13/2021	CHE-SP4641-130721-00 4 thru 006	White/Green Coating	Water tank, base trim and interior walls	10%, Chrysotile	Category II	No	1040 sq. ft.	4			
07/13/2021	CHE-SP4641-130721-00 7 thru 009	Black bakelite	Breaker box	Not Detected	N/A	N/A	3 sq. ft.	N/A			
07/13/2021	CHE-SP4641-130721-01 0 thru 012	Black/Brown, Vibration Dampener	On interior walls, under trim	Not Detected	N/A	N/A	28 LF	N/A			
07/13/2021	CHE-SP4641-130721-01 3 thru 015	White wall coating	Interior walls and ceiling throughout	10%, Chrysotile	Category II	No	972 sq. ft.	4			
07/13/2021	CHE-SP4641-130721-01 6 thru 018	White window caulk	Interior windows and large side windows	10%, Chrysotile	Category II	No	32 LF	4			
07/13/2021	CHE-SP4641-130721-01 9 thru 021	Gray door sealant	Between door and walls, interior	10%, Chrysotile	Category II	No	26 LF	4			
07/13/2021	CHE-SP4641-130721-02 2 thru 024	Gray oil tank sealant	Interior oil fill penetration	10%, Chrysotile	N/A	Yes	1 LF	3			

1 "ACM Present" is defined as material with >1% asbestos, except in California, where Asbestos-Containing Construction Material (ACCM) is defined as >0.1% asbestos.

2 For samples collected in sets, only the highest result is reported. Some of the collected samples may not have been analyzed. See the attached laboratory report for additional details.

3 "Lead Present" and "Positive" is defined as paint with $\geq 0.5\%$ lead.

4 "PCBs Present" and "Positive" is defined as caulk with \geq 50 ppm PCBs.

	ION IFIC		Rolling Sto	ock Asbestos Inspect	tion Rep	ort F	Report Date	08/10/202	21		
	Rolling Stock Type Caboose										
BUILDING	BUILDING AMERICA** Rolling Stock No SP 4641										
	Asbestos Samples										
Sample Date	Sa	ample ID	Description	Location	Asbestos Result ²	ACM Category	Friable	Quantity	Modified Algorithm Number		
07/13/2021	CHE-SP4 5 thru 027	4641-130721-02 7	Black Brake Pads	Exterior wheels	Not Detected	N/A	N/A	4 sq. ft.	N/A		
07/13/2021	CHE-SP4641-130721-02 White window ca 8/2021 8 thru 030 White window ca		White window caulk	Exterior retro-fitted windows and vent	10%, Chrysotile	Category II	No	16 LF	4		
Lead Lead Pre Notes	resent ³	Paint Results Yes	Total Number	of Positive Components. ³ 2							
		Paint S	Samples								
	Sample Date Sample ID		mple ID	Description		Location		₋ead esult	Condition		
07/13/202	21	CHE-SP4641-13	0721-001L	Green	Interior		0.37	% F	Fair		
07/13/202	21	CHE-SP4641-13	0721-002L	Orange		Exterior ends and popout sides 6.2		6 F	Fair		
07/13/202	21	CHE-SP4641-13	0721-003L	Dark Red	Exterio	or, long sides	1.6 %	6 F	Fair		
07/13/202	21	CHE-SP4641-13	0721-004L	White	Exterio	or handrails	0.024	4% F	Fair		

1 "ACM Present" is defined as material with >1% asbestos, except in California, where Asbestos-Containing Construction Material (ACCM) is defined as >0.1% asbestos.

2 For samples collected in sets, only the highest result is reported. Some of the collected samples may not have been analyzed. See the attached laboratory report for additional details.

3 "Lead Present" and "Positive" is defined as paint with $\ge 0.5\%$ lead.

4 "PCBs Present" and "Positive" is defined as caulk with \geq 50 ppm PCBs.

	Ro	lling Stock Asbestos Inspe	ection Report Report Date	08/10/2021	
			Rolling Stock Type	Caboose	
	MFRICA"		Rolling Stock No	SP 4641	
	lorinated Biphenyls Results				
PCBs Pres Notes		otal Number of Positive Components. ⁴ 0			
	PCBs Samples				
Sample Date	Sample ID	Description	Location	PCBs Result	Quantity
07/13/2021	CHE-SP4641-130721-001P	White window caulk	Interior windows and large side windows	Not Detected	32 LF
07/13/2021	CHE-SP4641-130721-002P	White window caulk	Exterior retro-fitted windows and vent	Not Detected	16 LF
Suspect Me Notes	old Present	lo			
		cept in California, where Asbestos-Containing Construct			
		ted. Some of the collected samples may not have been	analyzed. See the attached laboratory report for addit	ional details.	
	and "Positive" is defined as paint with $\ge 0.5\%$ and "Positive" is defined as caulk with ≥ 50 p				Page 4



BUILDING AMERICA



Train ID



View of car, looking south-southeast

Rolling Stock Type

Caboose

Rolling Stock No SP 4641



View of car, looking north-norhtwest



Car interior



BUILDING AMERICA**



CHE-SP4641-130721-001 thru 003, Asbestos Not Detected, Green rubber flooring (no mastic)



CHE-SP4641-130721-004 thru 006, 10% Asbestos, White/Green Coating



CHE-SP4641-130721-007 thru 009, Asbestos Not Detected, Black bakelite

Rolling Stock Type

Caboose

Rolling Stock No SP 4641



CHE-SP4641-130721-001 thru 003, Asbestos Not Detected, Green rubber flooring (no mastic)



CHE-SP4641-130721-004 thru 006, 10% Asbestos, White/Green Coating



CHE-SP4641-130721-007 thru 009, Asbestos Not Detected, Black bakelite



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CHE-SP4641-130721-010 thru 012, Asbestos Not Detected, Black/Brown, Vibration Dampener



CHE-SP4641-130721-013 thru 015, 10% Asbestos, White wall coating



CHE-SP4641-130721-016 thru 018, 10% Asbestos, White window caulk

Caboose

Rolling Stock No

Rolling Stock Type

SP 4641



CHE-SP4641-130721-010 thru 012, Asbestos Not Detected, Black/Brown, Vibration Dampener



CHE-SP4641-130721-013 thru 015, 10% Asbestos, White wall coating



CHE-SP4641-130721-016 thru 018, 10% Asbestos, White window caulk



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CHE-SP4641-130721-019 thru 021, 10% Asbestos, Gray door sealant



CHE-SP4641-130721-019 thru 021, 10% Asbestos, Gray door sealant



CHE-SP4641-130721-022 thru 024, 10% Asbestos, Gray oil tank sealant

Caboose

Rolling Stock No SP 4641

Rolling Stock Type



CHE-SP4641-130721-019 thru 021, 10% Asbestos, Gray door sealant



CHE-SP4641-130721-022 thru 024, 10% Asbestos, Gray oil tank sealant



CHE-SP4641-130721-025 thru 027, Asbestos Not Detected, Black Brake Pads



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CHE-SP4641-130721-025 thru 027, Asbestos Not Detected, Black Brake Pads



CHE-SP4641-130721-028 thru 030, 10% Asbestos, White window caulk



CHE-SP4641-130721-001L, 0.37% Lead, Green

Rolling Stock No

Rolling Stock Type

Caboose

SP 4641

CHE-SP4641-130721-028 thru 030, 10% Asbestos, White window caulk



CHE-SP4641-130721-001L, 0.37% Lead, Green



CHE-SP4641-130721-002L, 6.2% Lead, Orange



BUILDING AMERICA"

CHE-SP4641-130721-002L, 6.2% Lead, Orange



CHE-SP4641-130721-003L, 1.6% Lead, Dark Red



CHE-SP4641-130721-004L, 0.024% Lead, White

Rolling Stock Type

Caboose

Rolling Stock No SP 4641



CHE-SP4641-130721-003L, 1.6% Lead, Dark Red



CHE-SP4641-130721-004L, 0.024% Lead, White



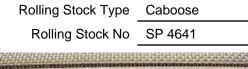
CHE-SP4641-130721-001P, PCB Not Detected, White window caulk



BUILDING AMERICA**



CHE-SP4641-130721-001P, PCB Not Detected, White window caulk





CHE-SP4641-130721-002P, PCB Not Detected, White window caulk

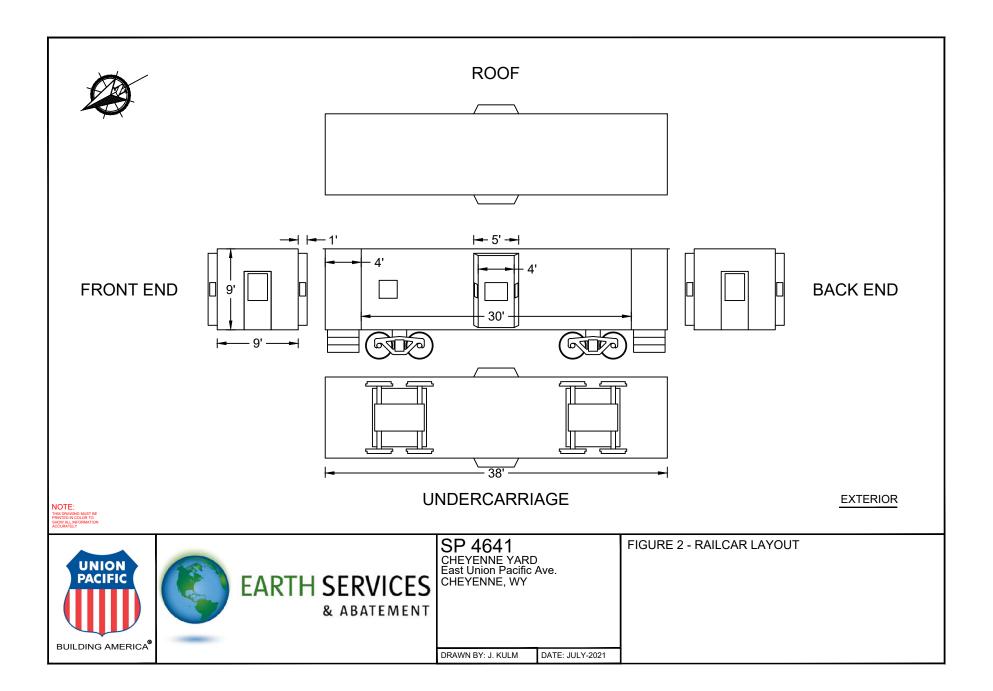


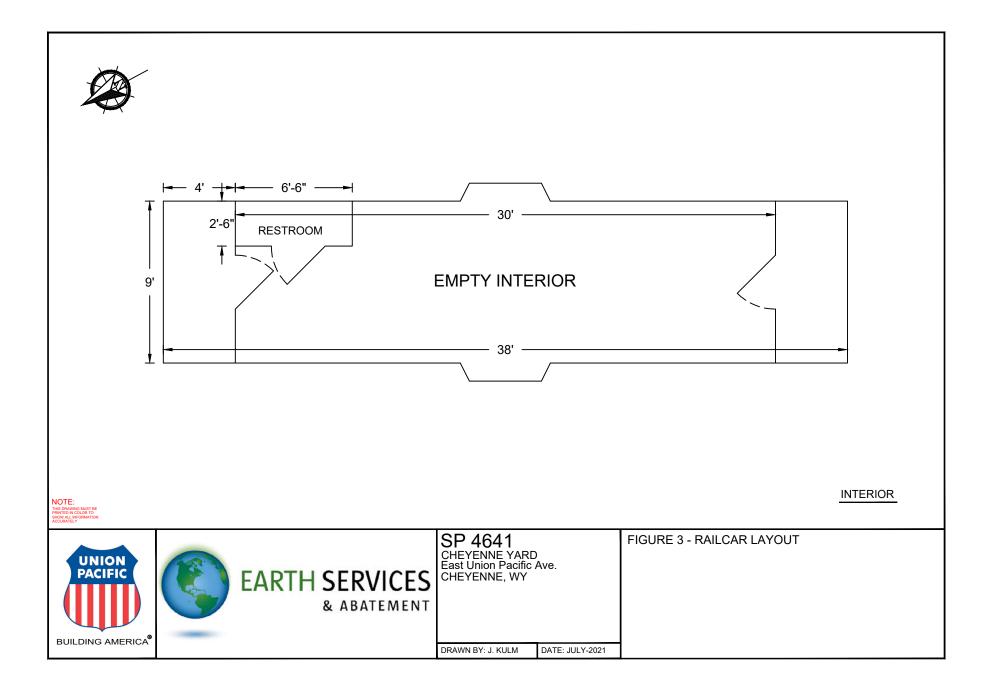
CHE-SP4641-130721-002P, PCB Not Detected, White window caulk

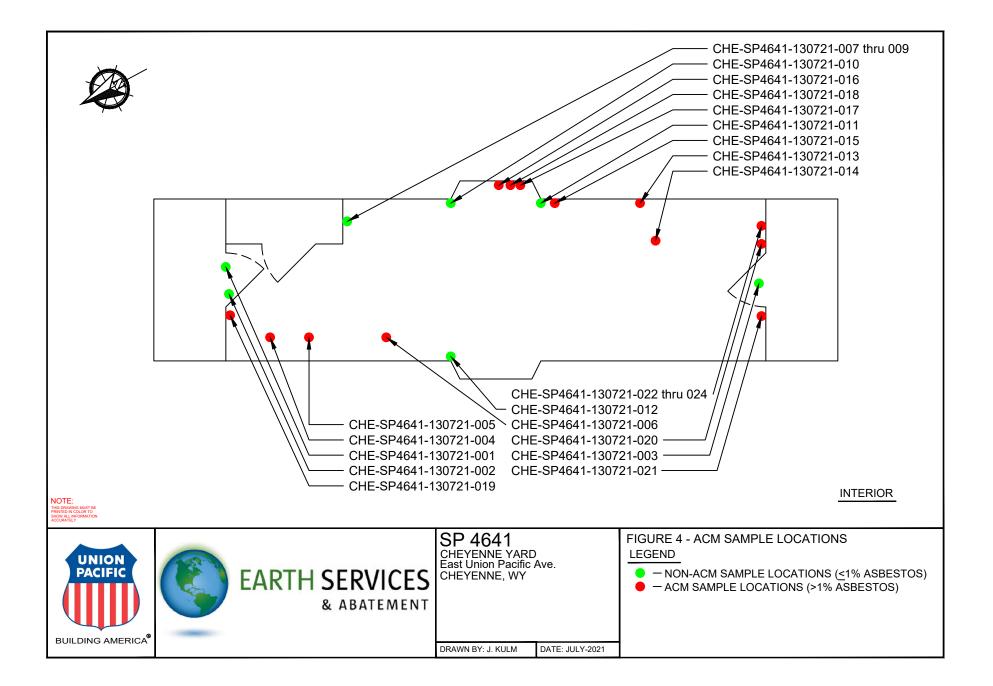
Appendix 1 - Figures

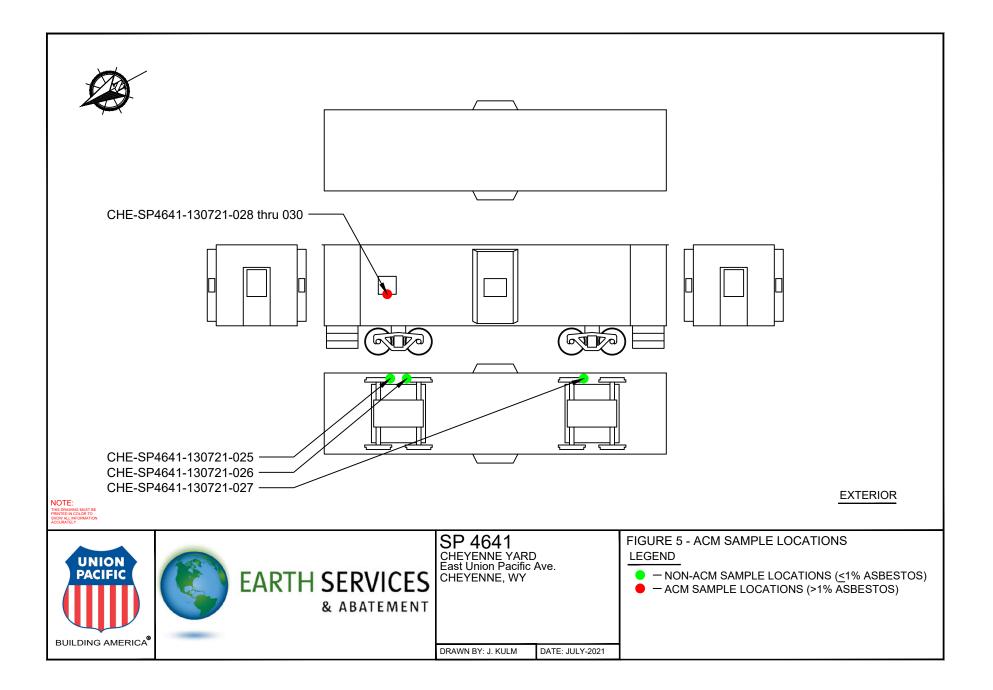
Report Date08/10/2021Rolling Stock TypeCabooseRolling Stock NoSP 4641

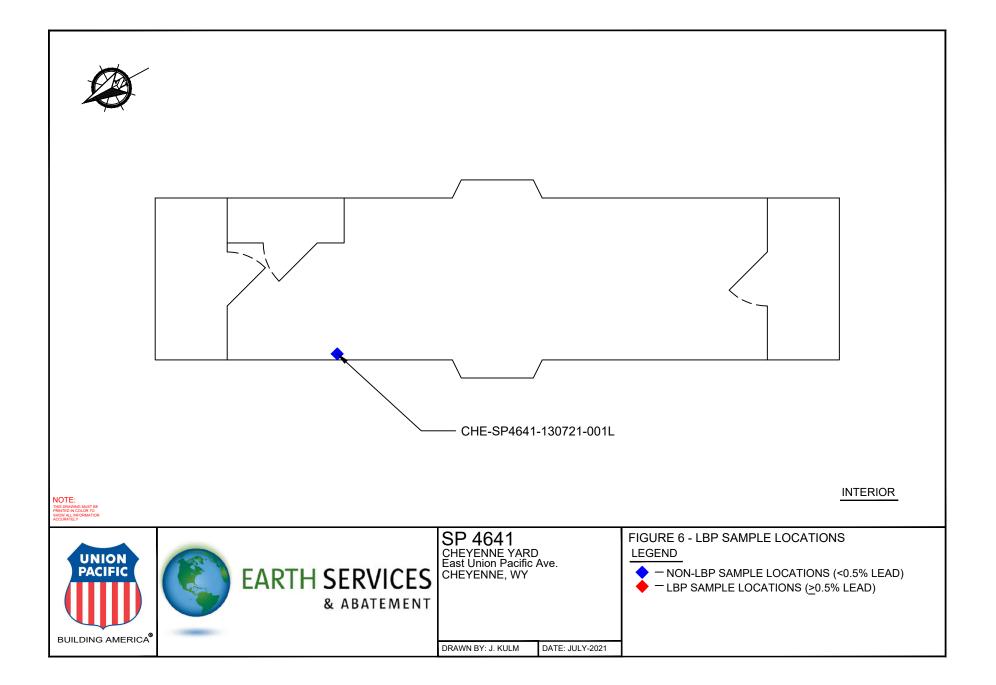


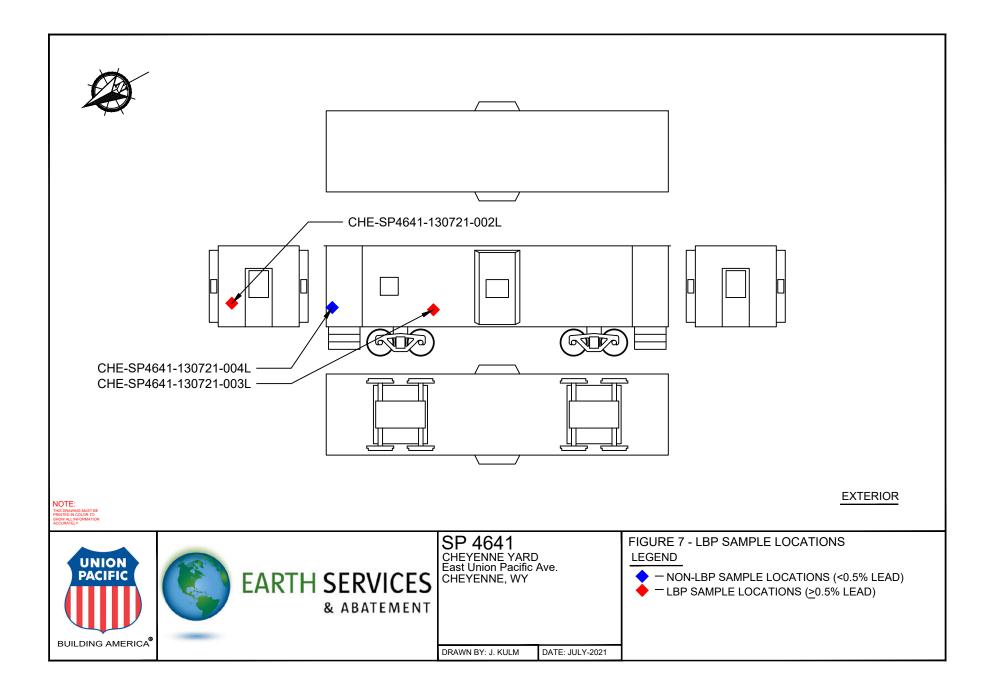


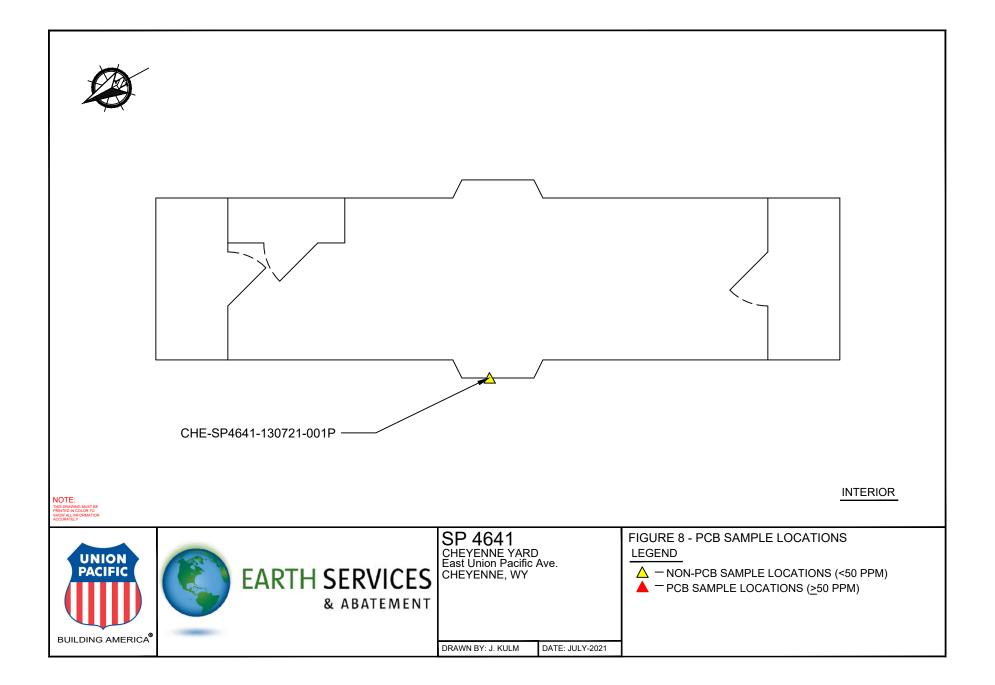


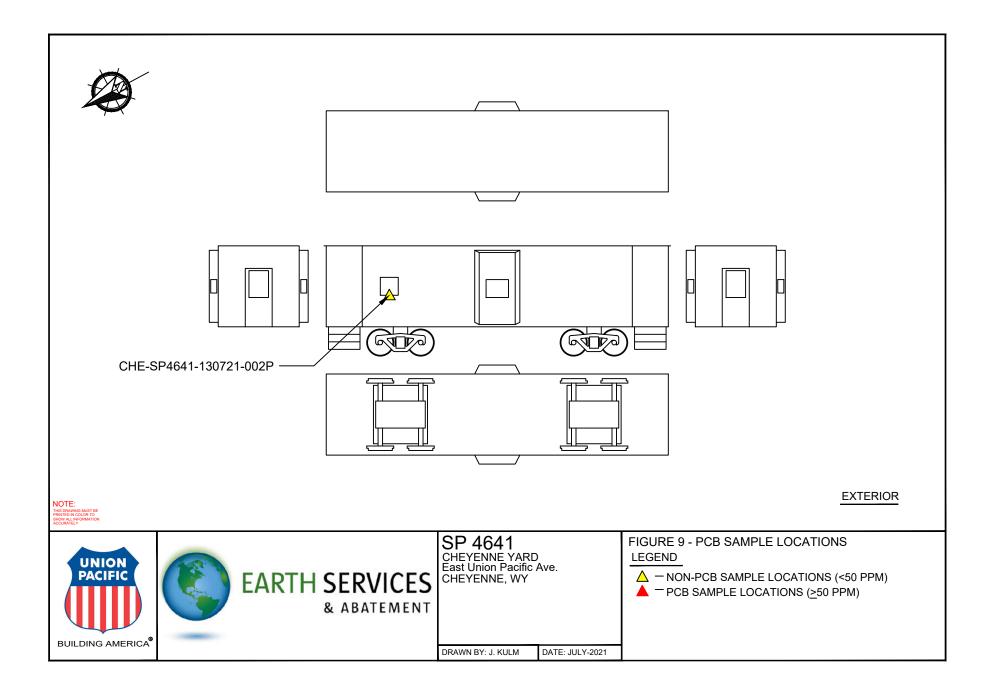


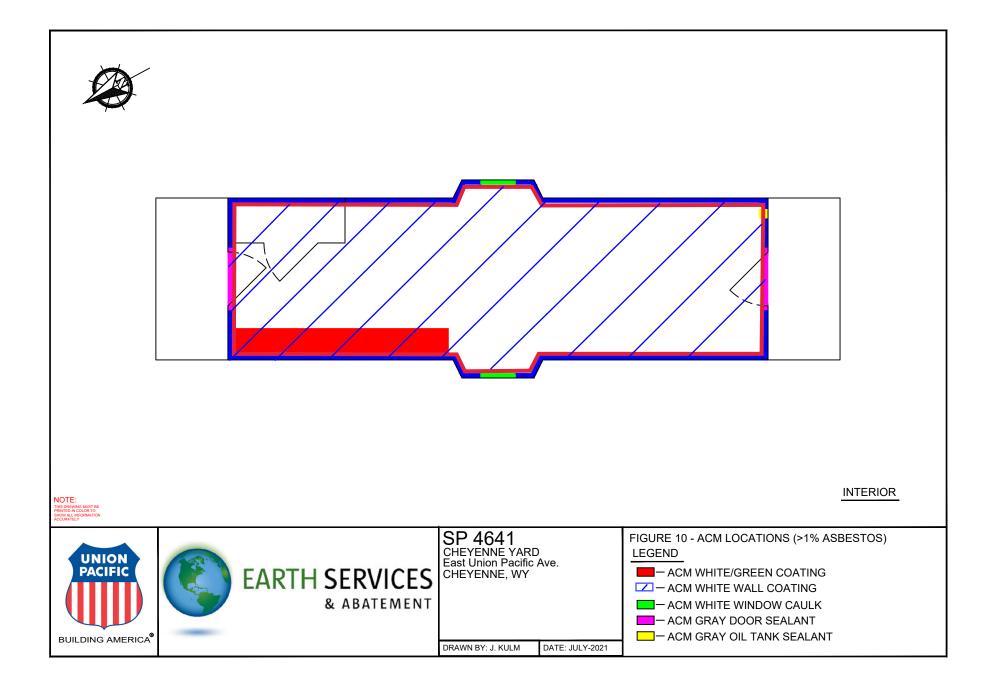


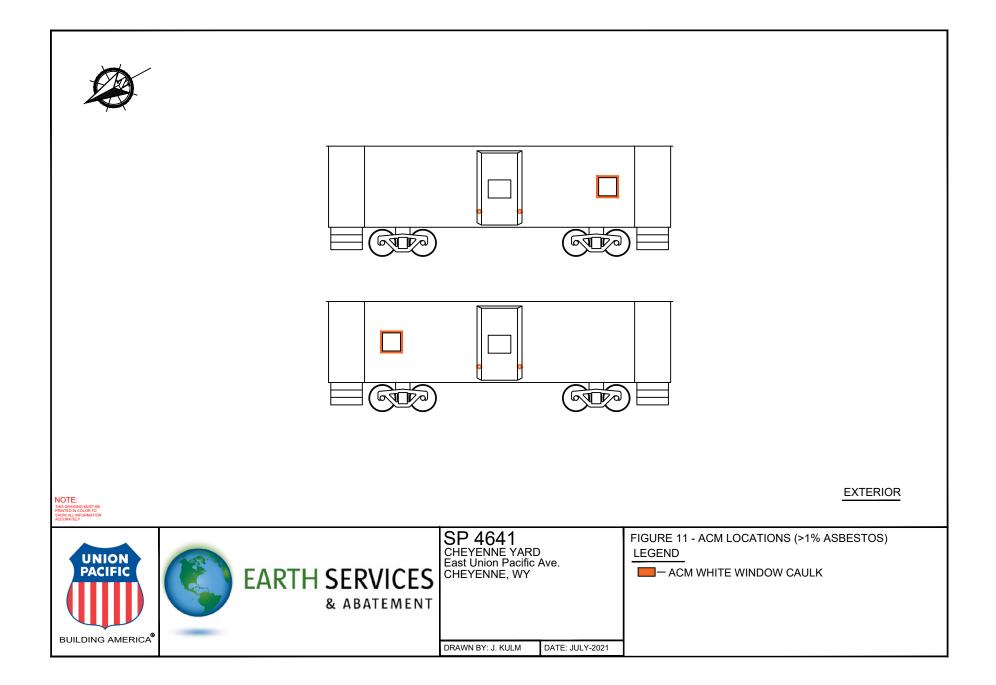












Appendix 2 - Lab Reports and Chain of Custody Receipts

Report Date	08/10/2021
Rolling Stock Type	Caboose
Rolling Stock No	SP 4641

3113 Red Bluff Road, Pasadena, TX 77503 Phone: (713) 290-0223 - Fax: (713) 290-0248 *J3Resources.com*



Bulk Asbestos Fiber Analysis by Polarized Light Microscopy (PLM) Appx E Sub E 40 CFR 763 / EPA 600/R-93/116

Joseph Kulm Earth Services & Abatement, Inc. 6700 E. 50th Avenue Commerce City CO 80022
 Order #:
 JH21129231

 Project #:
 215WY001

 Date Received:
 20-Jul-2021

 Date Analyzed:
 22-Jul-2021

 Date Reported:
 23-Jul-2021

Rolling Stock #SP 4641

Sample ID #	Sample Description	Asbestos Constituents	Non-Asbestos Constituents	
CHE-SP4641- 130721-001	LAYER 1 Flooring, Green, Homogeneous No Mastic Present	None Detected	Non-Fibrous Material	100%
	LAYER 2 Wood, Brown, Homogeneous	None Detected	Cellulose Fiber Non-Fibrous Material	95% 5%
CHE-SP4641- 130721-002	LAYER 1 Flooring, Green, Homogeneous No Mastic Present	None Detected	Non-Fibrous Material	100%
	LAYER 2 Wood, Brown, Homogeneous	None Detected	Cellulose Fiber Non-Fibrous Material	95% 5%
CHE-SP4641- 130721-003	LAYER 1 Flooring, Green, Homogeneous No Mastic Present	None Detected	Non-Fibrous Material	100%
	LAYER 2 Wood, Brown, Homogeneous	None Detected	Cellulose Fiber Non-Fibrous Material	95% 5%
CHE-SP4641- 130721-004	Coating, Green/ Gray, Homogeneous	Chrysotile 10%	Non-Fibrous Material	90%
CHE-SP4641- 130721-005	Coating, *Not analyzed per client reques	st		
CHE-SP4641- 130721-006	Coating, *Not analyzed per client reques	st		
CHE-SP4641- 130721-007	Bakelite, Black, Homogeneous	None Detected	Non-Fibrous Material	100%
CHE-SP4641- 130721-008	Bakelite, Black, Homogeneous	None Detected	Non-Fibrous Material	100%

Scott Ward, Ph.D. Lab Director

TDSHS License: 30-0457

Page 1 of 3

Jovahnny Dominguez Analyst

NVLAP Lab Code: 600120-0

These results apply to the sample(s) as received. This report is for the exclusive use of the addressed client and shall not be reproduced except in full, without written approval by Eurofins J3 Resources, Inc. (EJ3). Samples are analyzed according to the methods listed above and are subject to the inherent limitations of PLM and interference of matrix components. Reporting limit for the above method is a function of the quantity of sample analyzed, matrix interference, sample preparation, fiber size, and distribution. Asbestos may be detected in concentrations of <1% by area if sufficient material is analyzed. EJ3 recommends TEM confirmation of soils, verniculite and non-friable organically bound materials (NOB) reported as None Detected or < 1% Asbestos by PLM. All samples received in god condition unless otherwise noted. This report shall not be used to claim product approval, certification, or endorsement by NVLAP, NIST, or any agency of the federal government.

AIHA-LAP, LLC Lab ID: 157714

3113 Red Bluff Road, Pasadena, TX 77503 Phone: (713) 290-0223 - Fax: (713) 290-0248 *J3Resources.com*





Bulk Asbestos Fiber Analysis by Polarized Light Microscopy (PLM) Appx E Sub E 40 CFR 763 / EPA 600/R-93/116

Joseph Kulm Earth Services & Abatement, Inc. 6700 E. 50th Avenue Commerce City CO 80022
 Order #:
 JH21129231

 Project #:
 215WY001

 Date Received:
 20-Jul-2021

 Date Analyzed:
 22-Jul-2021

 Date Reported:
 23-Jul-2021

Rolling Stock #SP 4641

Sample ID #	Sample Description	Asbestos Constituent	S	Non-Asbestos Constituents	
CHE-SP4641- 130721-009	Bakelite, Black, Homogeneous	None Detected		Non-Fibrous Material	100%
CHE-SP4641- 130721-010	Vibration Damper, Black/ Brown, Homogeneous	None Detected		Synthetic Fiber	15%
CHE-SP4641- 130721-011	Vibration Damper, Black/ Brown, Homogeneous	None Detected		Synthetic Fiber	15%
CHE-SP4641- 130721-012	Vibration Damper, Black/ Brown, Homogeneous	None Detected		Synthetic Fiber	15%
CHE-SP4641- 130721-013	Coating, Gray, Homogeneous	Chrysotile	10%	Non-Fibrous Material	90%
CHE-SP4641- 130721-014	Coating, *Not analyzed per client reques	t			
CHE-SP4641- 130721-015	Coating, *Not analyzed per client reques	t			
CHE-SP4641- 130721-016	Window Caulk, White, Homogeneous	Chrysotile	10%	Non-Fibrous Material	90%
CHE-SP4641- 130721-017	Window Caulk, *Not analyzed per client request				
CHE-SP4641- 130721-018	Window Caulk, *Not analyzed per client request				
CHE-SP4641- 130721-019	Door Sealant, Gray, Homogeneous	Chrysotile	10%	Non-Fibrous Material	90%
CHE-SP4641- 130721-020	Door Sealant, *Not analyzed per client request				

Scott Ward, Ph.D. Lab Director

TDSHS License: 30-0457

Page 2 of 3

Jovahnny Dominguez Analyst

NVLAP Lab Code: 600120-0

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AIHA-LAP, LLC Lab ID: 157714

3113 Red Bluff Road, Pasadena, TX 77503 Phone: (713) 290-0223 - Fax: (713) 290-0248 *J3Resources.com*





Bulk Asbestos Fiber Analysis by Polarized Light Microscopy (PLM) Appx E Sub E 40 CFR 763 / EPA 600/R-93/116

Joseph Kulm Earth Services & Abatement, Inc. 6700 E. 50th Avenue Commerce City CO 80022
 Order #:
 JH21129231

 Project #:
 215WY001

 Date Received:
 20-Jul-2021

 Date Analyzed:
 22-Jul-2021

 Date Reported:
 23-Jul-2021

Rolling Stock #SP 4641

Sample ID #	Sample Description	Asbestos Constituents		Non-Asbestos Constituents	
CHE-SP4641- 130721-022	Sealant, Gray, Homogeneous	Chrysotile	10%	Non-Fibrous Material	90%
CHE-SP4641- 130721-023	Sealant, *Not analyzed per client reques	t			
CHE-SP4641- 130721-024	Sealant, *Not analyzed per client reques	t			
CHE-SP4641- 130721-025	Brakes, Black, Homogeneous	None Detected	t	Non-Fibrous Material	100%
CHE-SP4641- 130721-026	Brakes, Black, Homogeneous	None Detected	t	Non-Fibrous Material	100%
CHE-SP4641- 130721-027	Brakes, Black, Homogeneous	None Detected	t	Non-Fibrous Material	100%
CHE-SP4641- 130721-028	Window Caulk, Gray, Homogeneous	Chrysotile	10%	Non-Fibrous Material	90%
CHE-SP4641- 130721-029	Window Caulk, *Not analyzed per client request				
CHE-SP4641- 130721-030	Window Caulk, *Not analyzed per client request				

Scott Ward, Ph.D. Lab Director

Jovahnny Dominguez Analyst

These results apply to the sample(s) as received. This report is for the exclusive use of the addressed client and shall not be reproduced except in full, without written approval by Eurofins J3 Resources, Inc. (EJ3). Samples are analyzed according to the methods listed above and are subject to the inherent limitations of PLM and interference of matrix components. Reporting limit for the above method is a function of the quantity of sample analyzed, matrix interference, sample preparation, fiber size, and distribution. Asbestos may be detected in concentrations of <1% by area if sufficient material is analyzed. EJ3 recommends TEM confirmation of soils, verniculite and non-friable organically bound materials (NOB) reported as None Detected or < 1% Asbestos by PLM. All samples received in good condition unless otherwise noted. This report shall not be used to claim product approval, certification, or endorsement by NVLAP, NIST, or any agency of the federal government.

NVLAP Lab Code: 600120-0 AIHA-LAP, LLC Lab ID: 157714 TDSHS License: 30-0457 Page 3 of 3

IH CHAIN OF CUSTODY





Submitter Name:	Jos	eph Kulm				Bill to:		SAME					
Company:	Ear	th Services	& Aba	atement		Address:							
Address:	670	0 E. 50th A	lve.							,			
						City/State	e:		_		Zip:		
City/State: Co	mme	erce City, C	0	Zip : ⁸⁰⁰²	2	1 -		001 - Rolling	Sto	ock # S	P 464	41	
						nformat	ion	an An taona an taon					
Project Name: 2020) Ass	signed Insp	ection	s		Proje	ct Ma	anager: Ama	nda	Woza	b		Y
Project #: 215WY0	01 -	Rolling Sto	ock # S	SP 4641		Telep	hone	- Office/Ce	4	02.578	.6858	}	
Reports - Email Ad	dress	s: Amanda	.Woza	b@ESASite.co	m; Jose	eph.Kulm@	ESA	site.com					
Invoice - Email Add	lress	: Same as	above	9		Noti	ficatio	on By: Em	ail:		Verb	al: 🗆	Text: 🗖
Special Instructions	s: 1) /	400 Point (Count,	GR when appli	cable; a	at >1% AN	D ≤5	% 2) PC,GF	}>1	% ANI	D ≤1.4	19%; no	p ositiv e stop
				Turnaround	Times	i — Pleas	e Se	lect One			На 1919 г. На 1919 г.		
Emergency*		1	Day		2 Day			3 Day	Ø			5 Da	ıy □
	. •				ASB	ESTOS					•		
PLM - Bulk		PCM -	Air	TEM - Air	TE	VI - Bulk	TE	M - Water	т	EM - C)ust		EM/PLM rmiculite/Ore
EPA 600/R-93/116 Visual Estimation (- 400 Point Count 0.2 1,000 Point Count 0.2 Gravimetric Reduct Matrix Reduction (+ NIOSH 9002 OSHA ID-191	25%).1% ion	 ○ NIOSH 7 ○ ASTM D ○ ISO 8672 ○ OSHA ID 	7201 2	 ○ AHERA ○ NIOSH 7402 ○ ASTM D6281 ○ ISO 10312 ○ ISO 13794 	O Matr Redu O Qual	uction (<1%) ix uction (+/-) litative (+/-) op Mount	Dr 0 0 0 EF	PA 100.2 inking Water >10 μm fibers ≥0.5 μm fibers PA 100.2 fluent / WW		Aicrovac Aicrovac ASTM D Vipe 00/J-93 Carpet - I Bulk Dus Qualitativ	6480 6480 6/167 EPA st	O ASTM O CARB O Soil – F O Vermic	7521-TEM (+/-) 7521-TEM (<1%) 435-Modified PLM Only (+/-) ulite - TEM (+/-) ulite-Cincinnati e ID
				METALS							PA	RTICU	LATES
Flame	AA		Gr	aphite Furnace . LEAD	AA -		l	СР				Gravime	etric
O Lead in Air – NIOSH 7082 O Lead in Wipes – SW846 7420/3050B		O Was O Soil/	king Water – EPA stewater – SW846- /Sludge – SW846-7 - NIOSH 7105	ater - EPA 200.9 O - SW846-7421 O - SW846-7421 O 1 7105 O		 C Elements in Air – NIOSH 7300 C Wipe/Soil – SW846-6010B C Effluent – SW846-6010B C Welding Fume – NIOSH 7300M C TCLP – SW846-1311/6010B 			 ○ NIOSH 0500 – Total Particulates ○ NIOSH 0600 – Respirable Particulates 				
Total Number o	of Sa	amples S	Subm	itted: 30		Positive	e Ste	op: 🔳	YE	S		NO	
		-		21	Sigr	natures		s. <u> </u>		<u> </u>	2	· · ·	
Relinquished By:			1-0	K		001		Date		<u>-7/19</u>	1	Time:	10.00
Received By:		((XV.		Date	9:	1120	121	Time:	1 <u>0-20</u>
Relinquished By:						V		Date	e :			Time:	
Received By:								Date	: :			Time:	

* Emergency TAT requires prior lab notification. All samples analyzed outside normal business hours are charged at Emergency rate. **TAT's are in Business Days rather than Hours (i.e.1 Day TAT = End of Next Business Day)

IH CHAIN OF CUSTODY

Project Name/Number 215WY001 - Rolling Stock # SP 4641

Page _2____ of _2____

SAMPLE IDENTIFICATION

SAMPLE NUMBER	SAMPLE LOCATION / MATERIAL	VOLUME
CHE-SP4641-130721-001	Flooring, Green	
CHE-SP4641-130721-002	ur u	
CHE-SP4641-130721-003	u u	
CHE-SP4641-130721-004	Water Tank Coating, White/Green	
CHE-SP4641-130721-005	u p	
CHE-SP4641-130721-006	u a	
CHE-SP4641-130721-007	Bakelite, Black	
CHE-SP4641-130721-008	u u	
CHE-SP4641-130721-009	u u	
CHE-SP4641-130721-010	Vibration Dampener, Black	
CHE-SP4641-130721-011	n u	
CHE-SP4641-130721-012	n n	
CHE-SP4641-130721-013	Wall/Ceiling Coating, White	
CHE-SP4641-130721-014	u u	
CHE-SP4641-130721-015	n n	
CHE-SP4641-130721-016	Lg. Window Caulking, White	
CHE-SP4641-130721-017	n n	
CHE-SP4641-130721-018	a n	
CHE-SP4641-130721-019	Door Sealant, Tan	
CHE-SP4641-130721-020		
CHE-SP4641-130721-022	Oil Tank Sealant, Tan	
CHE-SP4641-130721-023		
CHE-SP4641-130721-024	u u	
CHE-SP4641-130721-025	Brakes, Black	
CHE-SP4641-130721-026	11 11	
CHE-SP4641-130721-027	n u	
CHE-SP4641-130721-028	Retrofitted Window Caulking, White	
CHE-SP4641-130721-029	a 11	
CHE-SP4641-130721-030	w n	

EMSL	EMSL Analytical, Inc. 1010 Yuma Street Denver, CO 80204 Tel/Fax: (303) 740-5700 / (303) 741-1400 http://www.EMSL.com / denverlab@emsl.com	EMSL Order: Customer ID: Customer PO: Project ID:	
Attention:	Joseph Kulm	Phone:	(303) 991-1280
	Earth Services & Abatement, Inc.	Fax:	
	6700 E. 50th Ave.	Received Date:	07/20/2021 1:30 PM
	Commerce City, CO 80022	Analysis Date:	07/23/2021
		Collected Date:	
Project:	215WY001		

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

			Asbestos		
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре
CHE-SP4641-130721-0 21	DOOR SEALANT, TAN	Tan Non-Fibrous Homogeneous		97% Non-fibrous (Other)	3% Chrysotile
222105228-0001 Inseparable paint / coating laye	er included in analysis				

Analyst(s)

Molly Elkins (1)

Henry Printz, TEM/PCM Laboratory Supervisor or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method") but augmented with procedures outlined in the 1993 ("final") version of the method. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis . Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Estimation of uncertainty is available on request.

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

Initial report from: 07/23/2021 12:54:58



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

222105228

EMSL Analytical, Inc. 1010 Yuma Street

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

Company Name : Earth Services & Abatement			EMSL Customer ID:				
			City: Commerce City State/Province: CO			nce: CO	
Zip/Postal Code: 80022		Country: US	Telephone #: 303-991-1280 Fax #:				
Report To (Name): Jose	oh Kulm, Ama	inda Wozab	Please Prov			🗹 Email	
Email Address: joseph.k			Purchase O	- rder:			
Project Name/Number: 2			EMSL Proje				
U.S. State Samples Take			CT Samples				dential/Tax Exempt
	EMST-BII	to: Same Different - Third Party Billing requires write				nts	
· · · · ·	Turnaround Time (TAT) Options ⁴ – Please Check						
		24 Hour 24 Hour d to schedule.*There is a premium	0/ 72 Ho		6 Hour		
authorization form f	or this service. A	nalysis completed in accordance	with EMSL's Terr	ps and Condition	ns located	in the Analytical	Price Guide.
PCM - Air Check if san from NY	nples are	<u>ГЕМ Air</u> 4-4.5hr ТАТ (,	AHERA only)	TEM- Dust			
▼ NIOSH 7400	Γ	AHERA 40 CFR, Part		Microva	c - ASTN	1 D 5755	
w/ OSHA 8hr. TWA		763 NIOSH 7402			ASTM D6	480	
PLM - Bulk (reporting lim	it)	EPA Level II		Carpet	Sonicatio	n (EPA 600/J-	-93/167)
PLM EPA 600/R-93/116	6 (<1%)	ISO 10312		Soil/Rock/	/ermicul	ite	
PLM EPA NOB (<1%)	1	<u> FEM - Buik</u>		PLM EP.	A 600/R-	93/116 with m	nilling prep (<1%)
Point Count		TEM EPA NOB		1			illing prep (<0.25%)
	(<0.1%)	NYS NOB 198.4 (non-fria	ble-NY)				nilling prep (<0.1%)
Point Count w/Gravimetric	(<0.1%)	Chatfield SOP TEM Mass Analysis-EPA	600 sec. 2.5			/ia Filtration P /ia Dron Moun	•
□ NYS 198.1 (friable in N	· · ·			5 TEM Qualitative via Drop Mount Prep Cincinnati Method EPA 600/R-04/004 PLM/TEM			
		<u>TEM – Water:</u> EPA 100.2		(BC only)			
	riable-NY)	Fibers >10µm Waste Drinking		Other:			
└── NYS 198.8 SOF-V └── NIOSH 9002 (<1%)	l l	All Fiber Sizes DWaste	Drinking				
· · · · · ·	op – Clearly Id	lentify Homogenous Group	Filter	Pore Size (A	ir Sampl	es): 🔽 0.8µ	
Samplers Name: JOSE		· •		Signature:	•		<u> </u>
oumpiers Name. 0000					Volume	e/Area (Air)	Date/Time
Sample #		Sample Descripti	on			# (Bulk)	Sampled
CHE-SP4641-130721-021	Door Seal	ant, Tan				I	
					-		
			-				
Client Sample # (s): CHE	E-SP4641-13072	1-021 CH	E-SP4641-130	721-021	Fotal # o	f Samples: 1	
Relinquished (Client):	Pola	t Synsho Date:	7-20-2	2/	-	Time:	
Received (Lab):	/_M	Date:	7/20	. 1:	30	Time:	
Comments/Special Instru	ictions:			I	<u> </u>		
1) Point Count 400	w/ Gravime	etric if PLM results are	e positive a	nd ≤5%			
2) No positive stop			-				
, 1							

Page 1 of 1 pages

Page 1 Of 1

3113 Red Bluff Road Pasadena, Texas 77503 Phone: (713) 290-0223 – Fax: (832) 831-5669 *j3resources.com*



J3 Resources

JP211028581

215WY001

21-Jul-2021 22-Jul-2021

23-Jul-2021

<u>Lead in Paint Performed by</u> Flame AA – USEPA SW846 7420/3050B (Mod.)

Amanda Wozab	Order #:
Earth Services & Abatement, Inc.	Project #:
6700 E. 50th Avenue	Receipt Date:
Commerce City, CO 80022	Analysis Date:
	Report Date:
2020 Assigned Inspections-Rolling Sto	ck # SP 4641

SAMPLE ID	PAINT COLOR	LEAD CONCENTRATION (mg/kg)	LEAD CONCENTRATION (%)
CHE-SP4641-130721-001L	Green	3700	0.37%
CHE-SP4641-130721-002L	Orange	62000	6.2%
CHE-SP4641-130721-003L	Dark Red	16000	1.6%
CHE-SP4641-130721-004L	White	240	0.024%

Reporting Limit = 50.0 mg/kg N/A = Not Applicable INS = Insufficient Sample Weight NS = Not Submitted

Analyst: Shervin Aghaabbasi

Scott Ward, Ph.D. Lab Director

This report relates only to the samples submitted. The analysis has been conducted according to the method(s) listed above. Blank corrections are not applied to data unless requested by the customer. This report is for the exclusive use of the addressed customer and shall not be reproduced except in full without written approval by Eurofins J3 Resources, Inc. (EJ3). EJ3 is an EPA NLLAP recognized lab by the AIHA-LAP, LLC ELLAP (Lab ID: 157714). Unless otherwise noted, all quality control samples performed within specifications established by the laboratory. The estimated accuracy is solely based on recovery data from internal laboratory control samples at the 95% confidence interval of the level of concern, derived from a 287 mg/kg lead in paint matrix reference material. The estimated accuracy does not account for uncertainty associated with the sampling process. Accuracy = +/-9%

IH CHAIN OF CUSTODY





Submitter Name:	Jos	eph Kuim			- -	Bill to:	SAME				
Company:	Earth Services & Abatement					Address:					
Address:	670	0 E. 50th A	ve.								
						City/State	e:		Zip		
City/State: Cor	nme	rce City, C	0	Zip: ⁸⁰⁰	022	-	5WY001 Rollin	ng Stoo			
					5 · · · · ·	nformati		-			
Project Name: 2020	Ass	igned Insp	ection	s		Proje	ct Manager: A	manda	a Wozab		
Project #: 215WY0	01 F	Iolling Stoc	k # SF	P 4641		Telep	hone – Office	Cell 4	02.578.685	8	·
Reports - Email Add	ires	s: Amanda	Woza	b@ESASite.c	com; Jose	ph.Kulm@	ESAsite.com				
Invoice - Email Add	ress	: Same as	above	9		Noti	fication By:	Email:	Ver	oal: 🗆	Text: 🗆
Special Instructions	:										~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
				Turnaround	d Times	– Please	e Select On	e			
Emergency*		1	Day		2 Day	, D	3 Da	у 🗹		5 Da	у 🗆
					ASB	ESTOS			-		
PLM - Bulk		PCM -	Air	TEM - Air	TEN	A - Bulk	TEM - Wate	er T	EM - Dust		EM/PLM rmiculite/Ore
 EPA 600/R-93/116 Visual Estimation (< 400 Point Count 0.2 1,000 Point Count 0 Gravimetric Reducti Matrix Reduction (+/ NIOSH 9002 OSHA ID-191 	5% .1% on	 NIOSH 7 ASTM D ISO 8672 OSHA ID 	7201	01 O NIOSH 7402 O ASTM D6281		imetric uction (<1%) ix uction (+/-) itative (+/-) p Mount ration	 ○ EPA 100.2 Drinking Wat >10 µm fib ≥0.5 µm fik ○ EPA 100.2 Effluent / WW 	er I ers O lers O l ers O l	ASTM D5755 Microvac ASTM D6480 Wipe 300/J-93/167 Carpet - EPA Bulk Dust Qualitative	 ASTM 7521-TEM (+/ ASTM 7521-TEM (CARB 435-Modified Soil PLM Only (+/- Vermiculite - TEM (+ Vermiculite-Cincinna Erionite ID 	
				METALS					PA	RTICU	LATES
Flame /	٩A		Gra	aphite Furnaco LEAD	e AA -		ICP			Gravime	tric
& Lead in Paint - SW846 7420/3050B O Lead in Air - NIOSH 7082 O Lead in Wipes - SW846 7420/3050B O Lead in Soil - SW846 7420/3050B		 O Drinking Water – EPA 200.9 O Wastewater – SW846-7421 O Soil/Sludge – SW846-7421 O Air – NIOSH 7105 		6-7421	 ○ Wipe/Soil ○ Effluent - ○ Welding I 	in Air – NIOSH 7 – SW846-6010B SW846-6010B Fume – NIOSH 7 SW846-1311/6010	300M	○ NIOSH 05 ○ NIOSH 06		Particulates able Particulates	
Total Number o	f Sa	amples S	Subm	itted: 4		Positive	e Stop:		S 🗆	NO	
Relinquished By: Received By:		m	γ <u></u> ζ.	10	Sigr	natures)ate:)ate:	$\frac{2}{19}$	_ Time: Time:	10:20
Relinquished By:		····· ¥ ·····)		ate:		_ Time:	
Received By:								ate:		Time:	

* Emergency TAT requires prior lab notification. All samples analyzed outside normal business hours are charged at Emergency rate. **TAT's are in Business Days rather than Hours (i.e.1 Day TAT = End of Next Business Day)

IH CHAIN OF CUSTODY

Project Name/Number 215WY001 Rolling Stock # SP 4641

Page _2___ of _2____

SAMPLE IDENTIFICATION

SAMPLE NUMBER	SAMPLE LOCATION / MATERIAL	VOLUME
CHE-SP4641-130721-001L	Green	
CHE-SP4641-130721-002L	Orange	
CHE-SP4641-130721-003L	Dark Red	
CHE-SP4641-130721-004L	White	
		<u> </u>

Comments/Special Instructions:

LIMS Version: 7.020

Monday, August 17, 2021

Amanda Wozab Earth Services & Abatement 6700 E. 50th Ave. Commerce City, CO 80022

Re: ALS Workorder: 2107403 Project Name: Rolling Stock # SP 4641 Project Number: 205WY001

Dear Ms. Wozab:

Two solid samples were received from Earth Services & Abatement, on 7/21/2021. The samples were scheduled for the following analysis:

PCBs

The results for these analyses are contained in the enclosed reports.

The data contained in the following report have been reviewed and approved by the personnel listed below. In addition, ALS certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental.

Thank you for your confidence in ALS Environmental. Should you have any questions, please call.

Sincerely, M . N

ALS Environmental Katie M. OBrien Project Manager





2107403

PCB:

The samples were analyzed using GC/ECD (electron capture detectors) according to the current revision of SOP 409 based on SW-846 Method 8082.

All acceptance criteria were met.

ALS -- Fort Collins

Sample Number(s) Cross-Reference Table

OrderNum: 2107403 Client Name: Earth Services & Abatement Client Project Name: Rolling Stock # SP 4641 Client Project Number: 205WY001 Client PO Number:

Client Sample Number	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
CHE-SP4641-130721-001P	2107403-1		SOLID	13-Jul-21	
CHE-SP4641-130721-002P	2107403-2		SOLID	13-Jul-21	

ALS Laboratory Group



225 Commerce Drive, Fort Collins, Colorado 80524 TF: (800) 443-1511 PH: (970) 490-1511 FX: (970) 490-1522

Cha	in-of-	Cust	odv



(ALS)			SAMPLER Joseph Kulm							DATE				Form 20216			PAGE		<u> </u>					
		Construction of the second		Joseph	Kuim					-		-		5 Dec		- 1		262.021		1		of		1
The start with the	Rolling Stock # SP 4641		Addition of						0.5%	TURNA	T	<u> </u>		5 Day		1	DISI	POSAL	Бу		or	Hei		Client
PROJECT No.	205WY001	EDD FO				-																		
		PURCHASE O	10085-05																					
COMPANY NAME	Earth Services & Abatement	BILL TO COM		<u> </u>	Services & Ab	atement		_						\sim										
SEND REPORT TO	Robert Szynskie	INVOICE AT	Line Col Car		t Szynskie													1						
ADDRESS	6700 E. 50th Ave.		DRESS		E. 50th Ave.																			
CITY / STATE / ZIP	Commerce City, CO 80022	CITY / STAT	E / ZIP	Comm	nerce City, CO	80022																		
PHONE	303-991-1280	P	HONE	303-9	91-1280																			
FAX	303-991-1282		FAX	303-9	91-1282				8082		2													
E-MAIL	Amanda.Wozab@esasite.com Robert.Szynskie@esasite.com	E	E-MAIL	ioseph	n.kulm@esas	ite.com			PCB by 8															
Lab ID	Field ID	Matrix		nple ate	Sample Time	# Bottles	Pres.	QC																
	CHE-SP4641-130721-001P	NS	7/13/	/2021		1			x		+			+			+	\top					+	+
2	CHE-SP4641-130721-002P	NS	7/13/	/2021		1																_		
																								20
														Τ									T	
									T												\square			

*Time Zone (Circle): EST CST MST PST Matrix: O = oil S = soil NS = non-soil solid W = water L = liquid E = extract F = filter

For metals or anions, please detail analytes below.

Comments:							QC PAC	KAGE (check below)
								LEVEL II (Standard QC)
								LEVEL III (Std QC + forms
								LEVEL IV (Std QC + forms + raw data)
Preservative Key:	1-HCI	2-HNO3	3-H2SO4	4-NaOH	5-NaHSO4	7-Oth	er 8-4	degrees C 9-5035

		PRINTED NAME	DATE	TIME	
RELINQUISHED BY	m AL	Joseph Kulin	7/19		
RECEIVED BY	TUE	Josh Ectrery	1/2/21	0945	
RELINQUISHED BY		/	1.1.7		
RECEIVED BY					
RELINQUISHED BY					
RECEIVED BY					



03/18/2021

ALS Environmental - Fort Collins CONDITION OF SAMPLE UPON RECEIPT FORM

(ALS)	Cliont	EARTH SERVICES & ABAT	ENTENIT	Mor	order No:	າ	107403		
Project M				Initials				21/2021	
Project Ma	anager:	КМО		muas	5: JPE	Date:			
			<u> </u>				N/A	YES	NO
		documents present and/or 815 9831 3879	removable	e?				Х	
· · · · · · · · · · · · · · · · · · ·		shipping containers intact?					Х		
		sample containers intact?					Х		
4. Is there a CO	C (chain	-of-custody) present?						Х	
5	•	ent with samples received? equested analyses, etc.)	(IDs, dates	, times, i	# of samp	les, # of		х	
6. Are short-ho	ld samp	les present?							Х
7. Are all samp	les withi	n holding times for the requ	lested anal	yses?				Х	
8. Were all sam	ple con	tainers received intact? (no	t broken o	leakin	g)			Х	
9. Is there suffi	cient sar	nple for the requested analy	yses?					Х	
10. Are samples Guidelines)	in prope	er containers for requested a	analyses? (form 250	, Sample Ha	andling		х	
11. Are all aqueo	ous sam	oles preserved correctly, if r	equired? (@	excludir	g volatile	s)	Х		
Are all samp	Ies requi	ring no headspace (VOC, GF ameter? (i.e. size of green p	RO, RSK/MI		•		х		
^{13.} Were the sar									Х
	-	Ires measured at 0.1-6.0°C?	IR gun used*:	#5			RAD ONLY		Х
	-								
Temperatu		1 AMB							
# of custody seals o									
External µR/hr						- <u> </u>			
Background µR/hr	•				·				
	-	s ≤ two times background and within I	DOT accentanc	o critoria?		NA (If no s	ee Form 00	8)	
		re for NO responses to boxes ab							
i louse promue e				nu o u ,		omyrma	continue	in login	
									·
Were unpreserved	d bottles	pH checked? YES / NA	All clie	ent bottl	e ID's vs A	LS lab ID's o	Jouble-ch	necked by	, JE
		ontacted? YES / NO / NA Contact	t:				Date/1	Time: 7/21/	 21
Project Manager	Signatur	e / Date:	h				_	(/21/	Z I
Form 201r30.xls		V .							

SAMPLE SUMMARY REPORT

Client:	Earth Services & Abatement	Date: 17-Aug-21
Project:	205WY001 Rolling Stock # SP 4641	Work Order: 2107403
Sample ID:	CHE-SP4641-130721-001P	Lab ID: 2107403-1
Legal Location:		Matrix: SOLID
Collection Date:	7/13/2021	Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBs		SW8	082	Prep	Date: 7/30/2021	PrepBy:CPC
AROCLOR-1016	ND		2.8	MG/KG	6	8/6/2021 12:40
AROCLOR-1221	ND		5.5	MG/KG	6	8/6/2021 12:40
AROCLOR-1232	ND		2.8	MG/KG	6	8/6/2021 12:40
AROCLOR-1242	ND		2.8	MG/KG	6	8/6/2021 12:40
AROCLOR-1248	ND		2.8	MG/KG	6	8/6/2021 12:40
AROCLOR-1254	ND		2.8	MG/KG	6	8/6/2021 12:40
AROCLOR-1260	ND		2.8	MG/KG	6	8/6/2021 12:40
Surr: TETRACHLORO-M-XYLENE	93		69-129	%REC	6	8/6/2021 12:40
Surr: DECACHLOROBIPHENYL	88		55-135	%REC	6	8/6/2021 12:40

Collection Date: 7/13/2021

Earth Services & Abatement

CHE-SP4641-130721-002P

205WY001 Rolling Stock # SP 4641

Client:

Project:

Sample ID:

Legal Location:

SAMPLE SUMMARY REPORT

Date:	17-Aug-21

Work Order: 2107403

Lab ID: 2107403-2

Matrix: SOLID

Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBs		SW80)82	Prep	Date: 7/30/2021	PrepBy: CPC
AROCLOR-1016	ND		15	MG/KG	6	8/6/2021 12:58
AROCLOR-1221	ND		30	MG/KG	6	8/6/2021 12:58
AROCLOR-1232	ND		15	MG/KG	6	8/6/2021 12:58
AROCLOR-1242	ND		15	MG/KG	6	8/6/2021 12:58
AROCLOR-1248	ND		15	MG/KG	6	8/6/2021 12:58
AROCLOR-1254	ND		15	MG/KG	6	8/6/2021 12:58
AROCLOR-1260	ND		15	MG/KG	6	8/6/2021 12:58
Surr: TETRACHLORO-M-XYLENE	90		69-129	%REC	6	8/6/2021 12:58
Surr: DECACHLOROBIPHENYL	93		55-135	%REC	6	8/6/2021 12:58

ALS -- Fort Collins LIMS Version: 7.020

SAMPLE SUMMARY REPORT

Client:	Earth Services & Abatement	Date: 17-Aug-21				
Project:	205WY001 Rolling Stock # SP 4641				Work Order: 21	07403
Sample ID:	CHE-SP4641-130721-002P				Lab ID: 2107	403-2
Legal Location:					Matrix: SOL	ID
Collection Date:	7/13/2021			Perc	cent Moisture:	
Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Explanation of Q	Qualifiers					
 "Report Limit" is the MDC U or ND - Result is less than the sample specific MDC. Y1 - Chemical Yield is in control at 100-110%. Quantitative yield is assumed. Y2 - Chemical Yield outside default limits. W - DER is greater than Warning Limit of 1.42 * - Aliquot Basis is 'As Received' while the Report Basis is 'Dry Weight'. # - Aliquot Basis is 'Dry Weight' while the Report Basis is 'As Received'. G - Sample density differs by more than 15% of LCS density. D - DER is greater than Control Limit M - Requested MDC not met. 			activity is g - LCS Recover - LCS Recover - LCS, Matrix S - Matrix Spike C - Not Calcula - Analyte conc	reater than the y below lower ry above upper Spike Recovery Recovery outs ated for duplica entration great	control limit. y within control limits. ide control limits ate results less than 5 times	

Inorganics:

B - Result is less than the requested reporting limit but greater than the instrument method detection limit (MDL).

U or ND - Indicates that the compound was analyzed for but not detected.

E - The reported value is estimated because of the presence of interference. An explanatory note may be included in the narrative.

M - Duplicate injection precision was not met.

N - Spiked sample recovery not within control limits. A post spike is analyzed for all ICP analyses when the matrix spike and or spike duplicate fail and the native sample concentration is less than four times the spike added concentration.

Z - Spiked recovery not within control limits. An explanatory note may be included in the narrative.

* - Duplicate analysis (relative percent difference) not within control limits.

S - SAR value is estimated as one or more analytes used in the calculation were not detected above the detection limit.

Organics:

U or ND - Indicates that the compound was analyzed for but not detected.

B - Analyte is detected in the associated method blank as well as in the sample. It indicates probable blank contamination and warns the data user.

E - Analyte concentration exceeds the upper level of the calibration range.

J - Estimated value. The result is less than the reporting limit but greater than the instrument method detection limit (MDL).

A - A tentatively identified compound is a suspected aldol-condensation product.

- X The analyte was diluted below an accurate quantitation level.
- * The spike recovery is equal to or outside the control criteria used.
- + The relative percent difference (RPD) equals or exceeds the control criteria.
- G A pattern resembling gasoline was detected in this sample.
- D A pattern resembling diesel was detected in this sample.
- M A pattern resembling motor oil was detected in this sample.
- C A pattern resembling crude oil was detected in this sample.
- 4 A pattern resembling JP-4 was detected in this sample.
- 5 A pattern resembling JP-5 was detected in this sample.
- H Indicates that the fuel pattern was in the heavier end of the retention time window for the analyte of interest.
- L Indicates that the fuel pattern was in the lighter end of the retention time window for the analyte of interest.
- Z This flag indicates that a significant fraction of the reported result did not resemble the patterns of any of the following petroleum hydrocarbon products: gasoline
- JP-8
- diesel
- mineral spirits
- motor oil
- Stoddard solvent
- bunker C

Client:	Earth Services & Abatement
Work Order:	2107403
Project:	205WY001 Rolling Stock # SP 4641

QC BATCH REPORT

Batch ID: EX2	10730-3-1	Instrument ID: Pes	st-1		Method: S	W8082						
LCS	Sample ID: EX210730-3				U	nits: MG/K	G	Analy	sis Date: 8	/6/2021	14:13	
Client ID:		Run II	D: PT210806-1	1				Prep Date: 7/3	0/2021	DF	: 1	
Analyte		Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qua
AROCLOR-1016		0.133	0.0333	0.133		99	80-120				50	
AROCLOR-1260		0.137	0.0333	0.133		103	80-120				50	
	HLORO-M-XYLENE	0.0152	0.0000	0.0167		91	69-129				50	
	ILOROBIPHENYL	0.0187		0.0167		112	55-135					
LCSD	Sample ID: EX210730-3				U	nits:MG/K	G	Analy	sis Date: 8	/6/2021	14:32	
Client ID:		Run II	D: PT210806-1	1				Prep Date: 7/3	0/2021	DF	: 1	
Analyte		Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qua
AROCLOR-1016	6	0.125	0.0333	0.133		94	80-120		0.133	6	50	
AROCLOR-1260)	0.131	0.0333	0.133		99	80-125		0.137	4	50	
Surr: TETRAC	HLORO-M-XYLENE	0.015		0.0167		90	69-129			1		
Surr: DECACH	ILOROBIPHENYL	0.0178		0.0167		107	55-135			5		
MB	Sample ID: EX210730-3				U	nits: MG/K	G	Analy	sis Date: 8	/6/2021	11:25	
Client ID:			D: PT210806-1	1				Prep Date: 7/3		DF		
Analyte		Result	ReportLimit									Qua
AROCLOR-1016	5	ND	0.033									
AROCLOR-1221	1	ND	0.067									
AROCLOR-1232	2	ND	0.033									
AROCLOR-1242	2	ND	0.033									
AROCLOR-1248	3	ND	0.033									
AROCLOR-1254	1	ND	0.033									
AROCLOR-1260)	ND	0.033									
Surr: TETRAC	HLORO-M-XYLENE	0.0158				95	69-129					
	ILOROBIPHENYL	0.0178				107	55-135					

The following samples were analyzed in this batch:

2107403-1 2107403-2

Appendix 3 - Modified Sawyer Algorithm

Report Date	08/10/2021
Rolling Stock Type	Caboose
Rolling Stock No	SP 4641

SAWYER ALGORITHM PRIORITY

Asbestos Potential Exposure and Priority Level Algorithm

Asbestos Potential Exposure and Prior	ity Level Algorithm	
Asset Number		SP 4641
_	Water tank, base trim and interior walls⊡	Interior walls and ceiling throughout□
Exposure Area		
Asbestos Containing Material	White/Green Coating□	White wall coating
Sample Number	CHE-SP4641-130721-004 thru 006	CHE-SP4641-130721-013 thru 015
Size	NA	NA
Quantity MATERIAL CONDITION (MC)	1,040 SF	972 SF
 a Pool amage, excellent condition 1 =Very minor damage, no visible debris 2 =Damage is evident, small area 3 =Damage is easily seen, some debris 4 =Damage is widespread, debris is common 5 =Most or all material is damaged, hanging, and / or found as debris throughout the area 	<u> </u>	<u> </u>
	1	1
1 =>30 years old 0 =15 - 30 years old -1 =<15 years old		
MATERIAL TYPE Pipe Covering (PC)	NA	NA
1 =MAG/CAL Silicate -1 =Air Cell / paper		
Ceiling Plasters or Fireproofing (CP)	NA	NA
-1 =Cementitious (Monocoat) 0 =Standard 1 ="Cotton Candy" texture		
WATER DAMAGE (WD)	0	0
0 =No water damage 1 =Small amount of damage can be seen; damage is localized rather than widespread 2 =Good deal of water damage; widespread		
ROOF CHARACTERISTICS (RC) -0.5 =Sloped or Hipped -0.5 =Metal or Concrete 0.5 =Flat or Built-up	-0.5	-0.5
EXPOSED SURFACE AREA (ESA)	4	4
 0 =Material behind a permanent enclosure 2 =Material behind a lay-in ceiling or in open tunnel 4 =Material is exposed 		
	4	4
0 =Totally inaccessible 1 =Can only reach with hands, ie. pipe chase 2 =An open tunnel or above a drop ceiling 3 =Exposed overall, but can't reach, ie. >10' high 4 =Material is out in the open and <10' high		
ACTIVITY AND MOVEMENT (A/M)	2	2
0 =No occupants enter the area1 =Area is accessed infrequently2 =Area is accessed frequently		
WORK ENVIRONMENT (WE)	0.5	0.5
-0.5 =Sedentary 0.5 =Non-sedentary		
SOUND AND MECHANICAL VIBRATIONS (SMV) 0.5 =Frequent or Constant -0.5 =No recognizable vibration	0.5	0.5
AIR - PLENUM / AIR STREAM (AP) 0 =No air plenum or air flow	1	1
1 =Air plenum or air flow exists VELOCITY (if Air Plenum = 1) (VEL)	0.05	0.05
0.25 =Non-recognizable by human feeling -0.25 =Non-recognizable by human feeling	-0.25	-0.25
FLOW (if Air Plenum = 1) (FL) -0.25 =Constant, steady stream 0.25 =Impact, gusty flow	NA	NA
FRIABILITY (F) 1 =Very hard to crumble under hand pressure 2 = Will crumble under a little hand pressure 3 =Extremely easy to crumble under light pressure	1	1
ASBESTOS CONTENT (ASB) 0 =None <1% 1 =1% to 10% Asbestos 2 =11% to 50% Asbestos	1	1
3 =51% to 100% Asbestos	40.05	40.05
Exposure Value	13.25	13.25
Rating	4	4
··· •	L]	L]

Rating

SAWYER ALGORITHM PRIORITY

Asbestos Potential Exposure and Priori

Aspestos Potential Exposure and Priori Asset Number	SP 4641	SP 4641
	Interior windows and large side	
Evenenue Area	windows	Between door and walls, interior⊡
Exposure Area	White window caulk	Croy door coolent
Asbestos Containing Material	CHE-SP4641-130721-016 thru 018	Gray door sealant CHE-SP4641-130721-019 thru 021
Sample Number Size		
Quantity	NA 32 LF	NA 26 LF
MATERIAL CONDITION (MC)	4	2
 0 =No damage, excellent condition 1 =Very minor damage, no visible debris 2 =Damage is evident, small area 3 =Damage is easily seen, some debris 4 =Damage is widespread, debris is common 5 =Most or all material is damaged, hanging, and / or found as debris throughout the area 		
BUILDING AGE (BA) 1 =>30 years old 0 =15 - 30 years old -1 =<15 years old	1	1
MATERIAL TYPE		
Pipe Covering (PC) 1 =MAG/CAL Silicate -1 =Air Cell / paper	NA	NA
Ceiling Plasters or Fireproofing (CP) -1 =Cementitious (Monocoat) 0 =Standard 1 ="Cotton Candy" texture	NA	NA
WATER DAMAGE (WD) 0 =No water damage 1 =Small amount of damage can be seen; damage is localized rather than widespread	0	0
2 =Good deal of water damage; widespread ROOF CHARACTERISTICS (RC) -0.5 =Sloped or Hipped -0.5 =Metal or Concrete 0.5 =Flat or Built-up	-0.5	-0.5
EXPOSED SURFACE AREA (ESA) 0 =Material behind a permanent enclosure 2 =Material behind a lay-in ceiling or in open tunnel 4 =Material is exposed	4	4
ACCESSIBILITY (AC)	4	4
0 =Totally inaccessible 1 =Can only reach with hands, ie. pipe chase 2 =An open tunnel or above a drop ceiling 3 =Exposed overall, but can't reach, ie. >10' high 4 =Material is out in the open and <10' high		
ACTIVITY AND MOVEMENT (A/M) 0 =No occupants enter the area 1 =Area is accessed infrequently	2	2
2 =Area is accessed frequently WORK ENVIRONMENT (WE)	0.5	0.5
0.5 =Sedentary 0.5 =Non-sedentary	0.0	0.5
SOUND AND MECHANICAL VIBRATIONS (SMV) 0.5 =Frequent or Constant -0.5 =No recognizable vibration	0.5	0.5
AIR - PLENUM / AIR STREAM (AP) 0 =No air plenum or air flow 1 =Air plenum or air flow exists	1	1
VELOCITY (if Air Plenum = 1) (VEL) 0.25 =Recognizable by human feeling -0.25 =Non-recognizable by human feeling	-0.25	-0.25
FLOW (if Air Plenum = 1) (FL) -0.25 =Constant, steady stream 0.25 =Impact, gusty flow	NA	NA
FRIABILITY (F) 1 =Very hard to crumble under hand pressure 2 = Will crumble under a little hand pressure 3 =Extremely easy to crumble under light pressure	1	1
ASBESTOS CONTENT (ASB) 0 =None <1% 1 =1% to 10% Asbestos 2 =11% to 50% Asbestos 3 =51% to 100% Asbestos	1	1
Exposure Value	16.25	14.25

4

4

SAWYER ALGORITHM PRIORITY

Asbestos Potential Exposure and Priori

Asbestos Potential Exposure and Priori		
Asset Number	SP 4641	SP 4641
<u> </u>	Interior oil fill penetration	Exterior retro-fitted windows and vent⊡
Exposure Area		
Asbestos Containing Material	Gray oil tank sealant□	White window caulk
Sample Number	CHE-SP4641-130721-022 thru 024	CHE-SP4641-130721-028 thru 030
Size	NA	NA
Quantity	1 LF	16 LF
MATERIAL CONDITION (MC)	3	2
 0 =No damage, excellent condition 1 =Very minor damage, no visible debris 2 =Damage is evident, small area 3 =Damage is easily seen, some debris 4 =Damage is widespread, debris is common 5 =Most or all material is damaged, hanging, and / or found as debris throughout the area 		
BUILDING AGE (BA)	1	1
1 =>30 years old 0 =15 - 30 years old		
-13 - 30 years old $-11 = -15$ years old		
MATERIAL TYPE		
Pipe Covering (PC)	NA	NA
1 =MAG/CAL Silicate	-	
-1 =Air Cell / paper Ceiling Plasters or Fireproofing (CP)	NA	NA
0 =Standard 1 ="Cotton Candy" texture	114	
WATER DAMAGE (WD)	0	0
0 =No water damage 1 =Small amount of damage can be seen; damage is localized rather than widespread 2 =Good deal of water damage; widespread		
ROOF CHARACTERISTICS (RC)	-0.5	-0.5
-0.5 =Sloped or Hipped -0.5 =Metal or Concrete 0.5 =Flat or Built-up		
EXPOSED SURFACE AREA (ESA)	4	4
0 =Material behind a permanent enclosure 2 =Material behind a lay-in ceiling or in open tunnel 4 =Material is exposed	<u>_</u>	·
ACCESSIBILITY (AC)	4	3
0 =Totally inaccessible 1 =Can only reach with hands, ie. pipe chase 2 =An open tunnel or above a drop ceiling 3 =Exposed overall, but can't reach, ie. >10' high 4 =Material is out in the open and <10' high		
ACTIVITY AND MOVEMENT (A/M)	2	1
0 =No occupants enter the area 1 =Area is accessed infrequently 2 =Area is accessed frequently		
WORK ENVIRONMENT (WE)	0.5	0.5
-0.5 =Sedentary		
0.5 =Non-sedentary SOUND AND MECHANICAL VIBRATIONS (SMV)		
0.5 =Frequent or Constant -0.5 =No recognizable vibration	0.5	0.5
AIR - PLENUM / AIR STREAM (AP) 0 =No air plenum or air flow 1 =Air plenum or air flow exists	1	1
VELOCITY (if Air Plenum = 1) (VEL)	-0.25	0.25
0.25 =Recognizable by human feeling -0.25 =Non-recognizable by human feeling		
FLOW (if Air Plenum = 1) (FL)	NA	0.25
-0.25 =Constant, steady stream 0.25 =Impact, gusty flow	NA	0.25
FRIABILITY (F) 1 =Very hard to crumble under hand pressure 2 = Will crumble under a little hand pressure	2	1
3 =Extremely easy to crumble under light pressure		
ASBESTOS CONTENT (ASB) 0 =None <1% 1 =1% to 10% Asbestos 2 =11% to 50% Asbestos 3 =51% to 100% Asbestos	1	1
Exposure Value	30.5	13
P		<u> </u>
Rating	3	4
č	I	L



www.esasite.com

Specializing in environmental services and demolition

September 9th, 2021

Union Pacific Railroad Asbestos Program c/o GHD 3807 South 148th Street Omaha, NE 68144

RE: WY, Cheyenne, Rollingstock SP 7077, Requested NESHAP Inspection Earth Services & Abatement Project Number: 215WY001

To Whom It May Concern,

Please find our NESHAP report for the above-mentioned requested inspection. Earth Services & Abatement's Joseph Kulm inspected UPRR railcar SP 7077 for suspect asbestos-, lead-, and PCB-containing materials. The inspection work took place on August 17th, 2021.

No previous reports were provided for review prior to inspection.

Refer to the report for a summary of this inspection, including inspection/lab results, inspection photographs, and schematics.

If you have any questions or need anything else for this project, please do not hesitate to contact us.

Conducted by,

Jospeh Kulm Inspector Earth Services & Abatement

Reviewed by,

Best Syphie

Robert Szynskie Program Director Earth Services & Abatement Robert.szynskie@esasite.com Cell – 720-206-9238

	Rolling Stock	Asb	estos Inspe	ection	Report		
				Inspe	ction Start Date	08/17/202	
Inspection Type				Inspe	ction End Date	08/17/202	
X Initial Inspection	Reinspection	X NE	SHAP Inspection	Repor	t Date	09/08/202	21
Inspection Compa Company Earth Se	any ervices & Abatement		License No.	16608			
Address 6700 E 50	th Ave		City Comm	erce City	,		
			State CO	Z	Zip 80022		
Inspector Informa First Name Joseph		_	t Name Kulm				
License TypeAHE	RA License No. C	6LEMG	A0R3U	Lice	nse State		
Asset Information							
Rolling Stock Type							-
Rolling Stock No	SP 7077		Car Name				_
Yard Name	Cheyenne		Subdivision	Unknov	vn		_
Address	East Union Pacific Ave		Mile Post	Unknov	vn		-
City	Cheyenne		Latitude	41.1300)87°		_
State	WY		Longitude -104.81		4657°		_
Zip Code	82001						
Key Contacts							
Name	Phone Number	Comp	bany		Role/Responsibili	ty	
Kulm,Joseph	303-991-1280	Earth	Services & Abate	ment	Inspector		
Szynskie,Robert	303-991-1280	Earth	Services & Abate	ment	Program Director		
Dickens,Edgar	307-214-3545	UPRF	२		Local Contact		
Inspection Limitat	tions						
was limited by the us	ere made to conduct a comp se of hand-tools and some a le. If additional suspect mate may be required.	dditiona	al suspect materia	ls may be	e present in areas r	not	

		Rolling Stoc	ek Asbestos Insp	ection Repo		eport Date Stock Type	09/08/2021			
	AMERICA [™]				Rolling	g Stock No	SP 7077			
	Asbestos Results									
ACM Pre	resent ¹ Yes	Total Number of	ACM Components.1	13						
Total Nu Notes	umber of Materials Containing	g <= 1% Asbestos.		-	_					
Please note the material descriptions herein are more descriptive than that on the chain-of-custody in order to provide distinguishing material details. The inspector collected clear silicone caulk samples, however, the laboratory identified black tar that was not visible to the inspection in samples CHE-SP7077-170821-004 thru 005. The brown paper, canvas wrap and brown insulation identified in samples CHE-SP7077-170821-010 thru 012 are not considered suspect materials for asbestos and are therefore not included in the summary table. The inspector collected flooring samples, however, the laboratory identified a subfloor that was not visible to the inspection in samples CHE-SP7077-170821-028 thru 030. The wallpaper identified in samples CHE-SP7077-170821-049 thru 051 is not considered suspect material for asbestos and are therefore not included in the summary table.										
Sample Date	Sample ID	Description	Location	Asbestos Result ²	ACM Category	Friable	Quantity	Modified Algorithm Number		
08/17/2021	CHE-SP7077-170821-00 1 thru 003	Silver/black coating	Exterior roof patches	6%, Chrysotile	N/A	Yes	10 sq. ft.	3		
08/17/2021	CHE-SP7077-170821-00 4 thru 005	Black tar	Exterior roof seams	8%, Chrysotile	Category I	No	80 LF	4		
08/17/2021	CHE-SP7077-170821-00 4 thru 006	Clear silicone caulk	Exterior roof seams	Not Detected	N/A	N/A	80 LF	N/A		
08/17/2021	CHE-SP7077-170821-00 7 thru 009	White sealant	Roof patches, back end	Not Detected	N/A	N/A	40 sq. ft.	N/A		
08/17/2021	CHE-SP7077-170821-01 0 thru 012	Gray Insulation	Interior walls, ceiling and	40%, floor Chrysotile	N/A	Yes	3240 sq. ft.	1		
08/17/2021	CHE-SP7077-170821-01 3 thru 015	Thin black/gray coating	Exterior roof	Not Detected	N/A	N/A	810 sq. ft.	N/A		

1 "ACM Present" is defined as material with >1% asbestos, except in California, where Asbestos-Containing Construction Material (ACCM) is defined as >0.1% asbestos.

2 For samples collected in sets, only the highest result is reported. Some of the collected samples may not have been analyzed. See the attached laboratory report for additional details.

3 "Lead Present" and "Positive" is defined as paint with $\ge 0.5\%$ lead.

4 "PCBs Present" and "Positive" is defined as caulk with \geq 50 ppm PCBs.



Rolling Stock Asbestos Inspection Report

Report Date 09/08/2021

Rolling Stock Type

Rolling Stock No SP 7077

Asbestos Samples						

Sample Date	Sample ID	Description	Location	Asbestos Result ²	ACM Category	Friable	Quantity	Modified Algorithm Number
08/17/2021	CHE-SP7077-170821-01 6 thru 018	White pipe wrap	Undercarriage and plenum space	30%, Chrysotile	Category II	No	410 LF	3
08/17/2021	CHE-SP7077-170821-01 9 thru 021	Gray sealant	Undercarriage, where pipe removed	2.2%, Chrysotile	Category II	No	2 LF	4
08/17/2021	CHE-SP7077-170821-02 2 thru 024	Red cementous material	Flooring throughout	0.75%, Chrysotile	N/A	N/A	810 sq. ft.	N/A
08/17/2021	CHE-SP7077-170821-02 5 thru 027	Black/brown electrical wire coating	Interior walls and ceiling throughout	Not Detected	N/A	N/A	200 LF	N/A
08/17/2021	CHE-SP7077-170821-02 8 thru 030	Red Vinyl flooring	Back deck floor	2.41%, Chrysotile	N/A	Yes	40 sq. ft.	3
08/17/2021	CHE-SP7077-170821-02 8 thru 030	Yellow mastic, associated with red flooring	Back deck floor	Not Detected	N/A	N/A	40 sq. ft.	N/A
08/17/2021	CHE-SP7077-170821-02 8 thru 030	Black/gray subflooring	Back deck floor	1.75%, Chrysotile	N/A	Yes	40 sq. ft.	3
08/17/2021	CHE-SP7077-170821-03 1 thru 033	Black wall coating	Interior A/C area	6%, Chrysotile	Category II	No	150 sq. ft.	4
08/17/2021	CHE-SP7077-170821-03 4 thru 036	Black bakelite	Front electric closet	1.59%, Chrysotile	Category I	No	4 sq. ft.	4
08/17/2021	CHE-SP7077-170821-03 7 thru 039 Gray fireboard		Behind electrical components	20%, Chrysotile	Category I	No	8 sq. ft.	3
08/17/2021	CHE-SP7077-170821-04 0 thru 042	White Insulation	Electric closet walls and door, front end of car	65%, Chrysotile	N/A	Yes	64 sq. ft.	1

1 "ACM Present" is defined as material with >1% asbestos, except in California, where Asbestos-Containing Construction Material (ACCM) is defined as >0.1% asbestos.

2 For samples collected in sets, only the highest result is reported. Some of the collected samples may not have been analyzed. See the attached laboratory report for additional details.

3 "Lead Present" and "Positive" is defined as paint with $\ge 0.5\%$ lead.

"PCBs Present" and "Positive" is defined as caulk with ≥50 ppm PCBs.

PAC			Rolling St	ock Asbestos Inspect	tion Rep		Report Date Stock Type	09/08/202	1
	SP 7077								
BUILDING	AMERICA	Asbestos Sam	ples						
Sample Sample ID		Description	Location	Asbestos Result ²	ACM Category	Friable	Quantity	Modified Algorithm Number	
8/17/2021	CHE-SP7077-170821-04 /17/2021 3 thru 045		White exhaust pipe wrap	Front furnance exhaust pipe	30%, Chrysotile	N/A	Yes	15 sq. ft.	1
8/17/2021	CHE-SP7077-170821-04 6 thru 048		Gray heater block	Front furnance	10%, Chrysotile	N/A	Yes	8 sq. ft.	2
CHE-SP7077-170821-04 8/17/2021 9 thru 051		Silver coating	Interior windows	Not Detected	N/A	N/A	400 sq. ft.	N/A	
Lead Pr Notes		Yes		r of Positive Components. ³ 4		_			
		Paint S	Samples						
Sample Date		Sample ID		Description		Location		ead esult C	Condition
08/17/2021 CHE-SP7077-17		0821-001L	Black/gray	Roof	0.025 %		5% P	oor	
	2021 CHE-SP7077-170821-002L		'0821-002L	Beige	Interior ceiling	Interior walls, and ceiling 1		b P	oor
08/17/20	2021 CHE-SP7077-170821-003L		Red	Interior	Interior floors 0.59		% P	oor	
08/17/20	21		021 CHE-SP7077-170821-004L			Exterior 4.3			
		CHE-SP7077-17	0821-004L	Yellow	Exterio	or	4.3 %	5 Fa	air

1 "ACM Present" is defined as material with >1% asbestos, except in California, where Asbestos-Containing Construction Material (ACCM) is defined as >0.1% asbestos.

2 For samples collected in sets, only the highest result is reported. Some of the collected samples may not have been analyzed. See the attached laboratory report for additional details.

3 "Lead Present" and "Positive" is defined as paint with $\geq 0.5\%$ lead.

4 "PCBs Present" and "Positive" is defined as caulk with \geq 50 ppm PCBs.

		Rol	ling Stock Asbestos Inspec	Rolling Stock Type	09/08/2021				
BUILDING AMERICA" Rolling Stock No SP 7077									
Poly	chlorinated E	Biphenyls Results							
PCBs F	Present ⁴ N	o T	otal Number of Positive Components. ⁴						
Notes	6								
	F	CBs Samples							
Sample Date		Sample ID	Description	Location	PCBs Result	Quantity			
08/17/2021	CHE-SP7	7077-170821-001P	Clear silicone caulk	Exterior roof seams	Not Detected	80 LF			
Notes	et Mold Present								
2 For samples 3 "Lead Prese	s collected in sets, on ent" and "Positive" is c				tional details.	Page 5			



BUILDING AMERICA"



View of exterior, looking north-northwest



View of exterior, looking northeast



View of car interior

Rolling Stock Type



View of exterior, looking west-southwest



View of car interior



View of car interior



BUILDING AMERICA**



CHE-SP7077-170821-001 thru 003, 6% Asbestos, Silver/black coating



CHE-SP7077-170821-004 thru 005, 8% Asbestos, Black tar



CHE-SP7077-170821-004 thru 006, Asbestos Not Detected, Clear silicone caulk

Rolling Stock Type



CHE-SP7077-170821-001 thru 003, 6% Asbestos, Silver/black coating



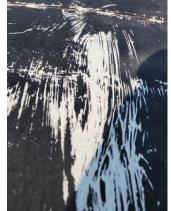
CHE-SP7077-170821-004 thru 005, 8% Asbestos, Black tar



CHE-SP7077-170821-004 thru 006, Asbestos Not Detected, Clear silicone caulk



BUILDING AMERICA"



CHE-SP7077-170821-007 thru 009, Asbestos Not Detected, White sealant



CHE-SP7077-170821-010 thru 012, 40% Asbestos, Gray Insulation



CHE-SP7077-170821-013 thru 015, Asbestos Not Detected, Thin black/gray coating

Rolling Stock Type



CHE-SP7077-170821-007 thru 009, Asbestos Not Detected, White sealant



CHE-SP7077-170821-010 thru 012, 40% Asbestos, Gray Insulation



CHE-SP7077-170821-013 thru 015, Asbestos Not Detected, Thin black/gray coating



BUILDING AMERICA**



CHE-SP7077-170821-016 thru 018, 30% Asbestos, White pipe wrap



CHE-SP7077-170821-019 thru 021, 2.2% Asbestos, Gray sealant



CHE-SP7077-170821-022 thru 024, 0.75% Asbestos, Red cementous material

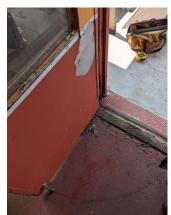
Rolling Stock Type



CHE-SP7077-170821-016 thru 018, 30% Asbestos, White pipe wrap



CHE-SP7077-170821-019 thru 021, 2.2% Asbestos, Gray sealant



CHE-SP7077-170821-022 thru 024, 0.75% Asbestos, Red cementous material



BUILDING AMERICA**



CHE-SP7077-170821-025 thru 027, Asbestos Not Detected, Black/brown electrical wire coating



CHE-SP7077-170821-028 thru 030, 2.41% Asbestos, Red Vinyl flooring



CHE-SP7077-170821-028 thru 030, Asbestos Not Detected, Yellow mastic, associated with red flooring

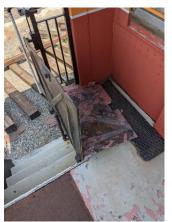
Rolling Stock Type



CHE-SP7077-170821-025 thru 027, Asbestos Not Detected, Black/brown electrical wire coating



CHE-SP7077-170821-028 thru 030, 2.41% Asbestos, Red Vinyl flooring



CHE-SP7077-170821-028 thru 030, Asbestos Not Detected, Yellow mastic, associated with red flooring



BUILDING AMERICA**



CHE-SP7077-170821-028 thru 030, 1.75% Asbestos, Black/gray subflooring

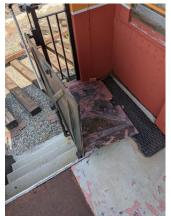


CHE-SP7077-170821-031 thru 033, 6% Asbestos, Black wall coating



CHE-SP7077-170821-034 thru 036, 1.59% Asbestos, Black bakelite

Rolling Stock Type



CHE-SP7077-170821-028 thru 030, 1.75% Asbestos, Black/gray subflooring



CHE-SP7077-170821-031 thru 033, 6% Asbestos, Black wall coating



CHE-SP7077-170821-034 thru 036, 1.59% Asbestos, Black bakelite



BUILDING AMERICA**



CHE-SP7077-170821-037 thru 039, 20% Asbestos, Gray fireboard



CHE-SP7077-170821-040 thru 042, 65% Asbestos, White Insulation



CHE-SP7077-170821-043 thru 045, 30% Asbestos, White exhaust pipe wrap

Rolling Stock Type

Rolling Stock No SP 7077



CHE-SP7077-170821-037 thru 039, 20% Asbestos, Gray fireboard



CHE-SP7077-170821-040 thru 042, 65% Asbestos, White Insulation



CHE-SP7077-170821-043 thru 045, 30% Asbestos, White exhaust pipe wrap



BUILDING AMERICA**



CHE-SP7077-170821-046 thru 048, 10% Asbestos, Gray heater block



CHE-SP7077-170821-049 thru 051, Asbestos Not Detected, Silver coating



CHE-SP7077-170821-001L, 0.025% Lead, Black/gray

Rolling Stock Type



CHE-SP7077-170821-046 thru 048, 10% Asbestos, Gray heater block



CHE-SP7077-170821-049 thru 051, Asbestos Not Detected, Silver coating



CHE-SP7077-170821-001L, 0.025% Lead, Black/gray



BUILDING AMERICA"



CHE-SP7077-170821-002L, 1.7% Lead, Beige



CHE-SP7077-170821-003L, 0.59% Lead, Red



CHE-SP7077-170821-004L, 4.3% Lead, Yellow

Rolling Stock Type

Rolling Stock No SP 7077



CHE-SP7077-170821-002L, 1.7% Lead, Beige



CHE-SP7077-170821-003L, 0.59% Lead, Red



CHE-SP7077-170821-004L, 4.3% Lead, Yellow





BUILDING AMERICA"



CHE-SP7077-170821-005L, 4.3% Lead, Light red



CHE-SP7077-170821-001P, PCB Not Detected, Clear silicone caulk

Rolling Stock Type

Rolling Stock No SP 7077



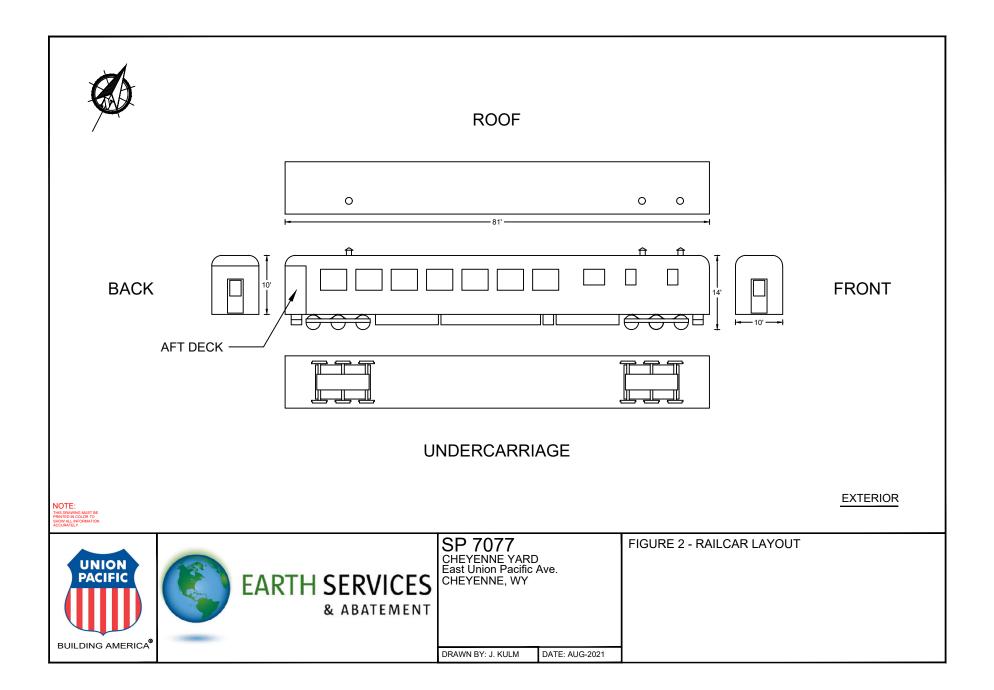
CHE-SP7077-170821-005L, 4.3% Lead, Light red

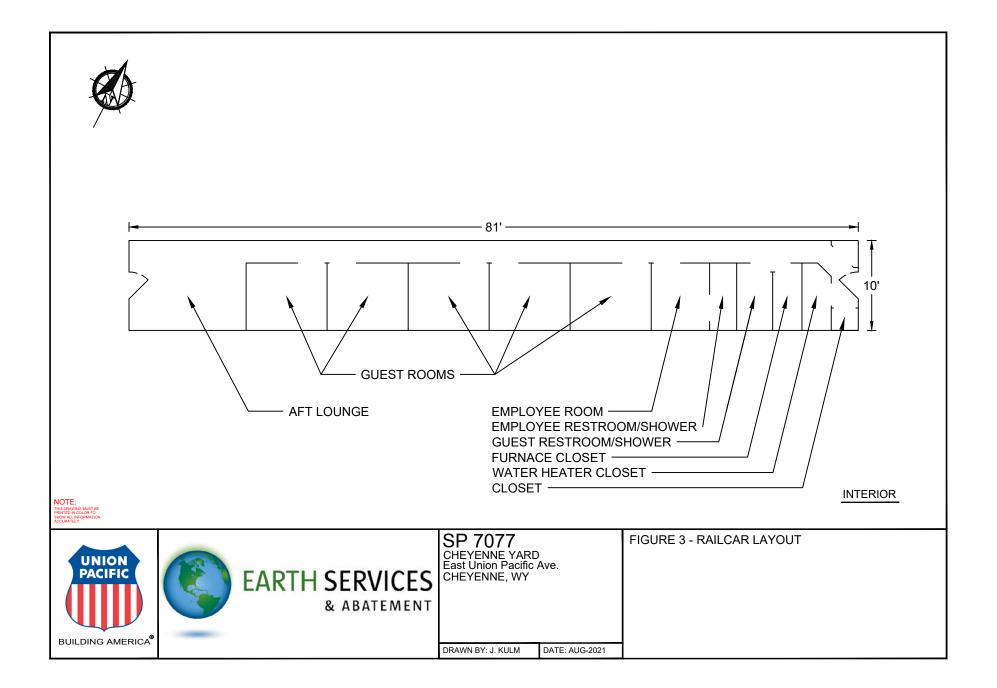


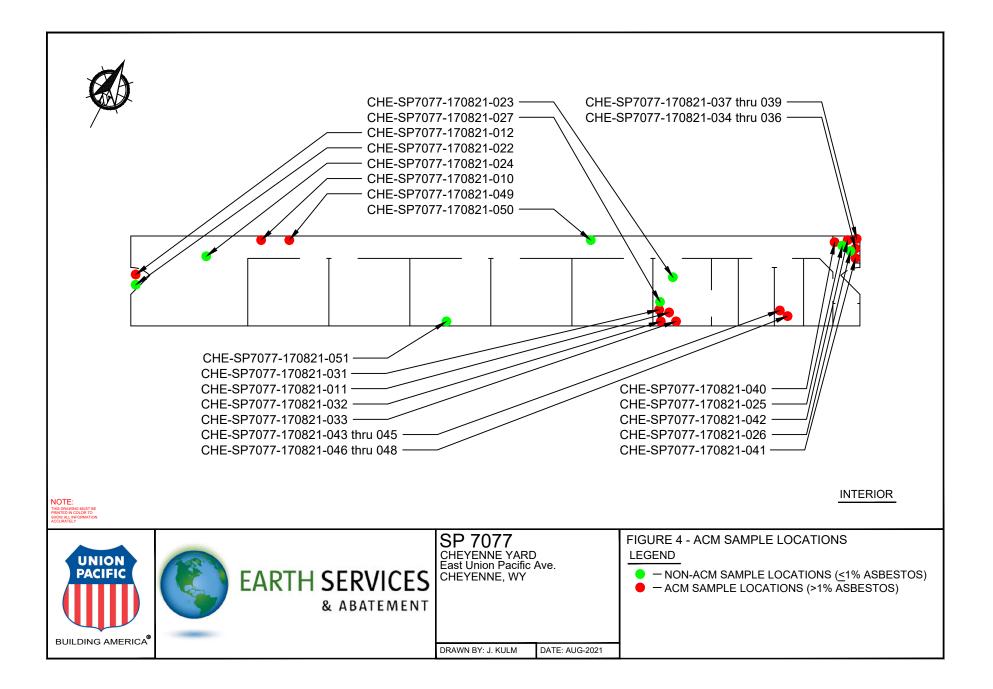
CHE-SP7077-170821-001P, PCB Not Detected, Clear silicone caulk

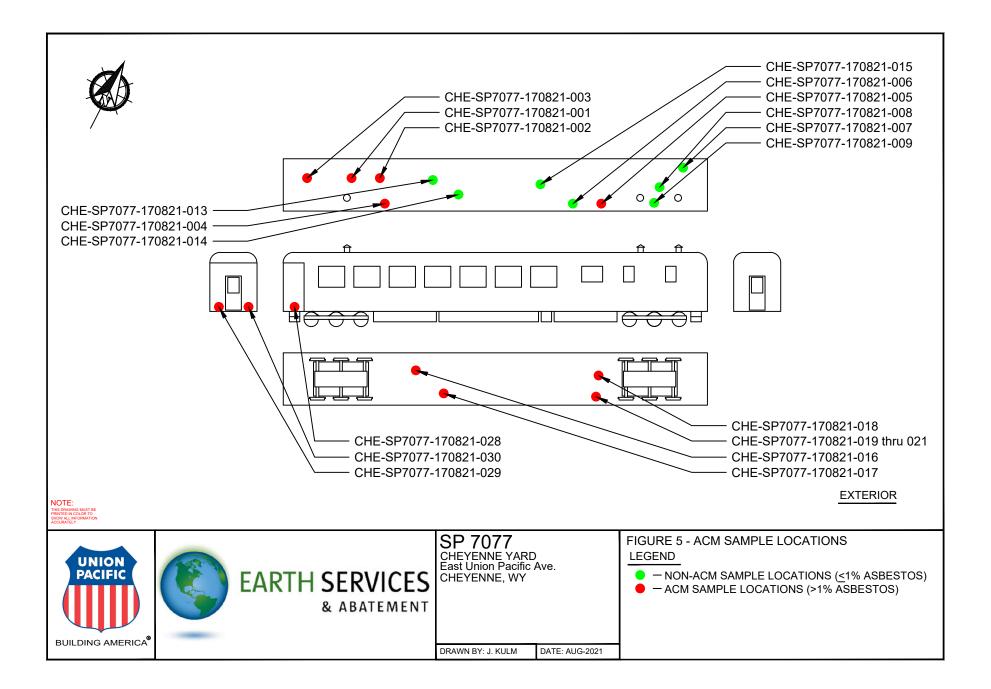
Appendix 1 - Figures

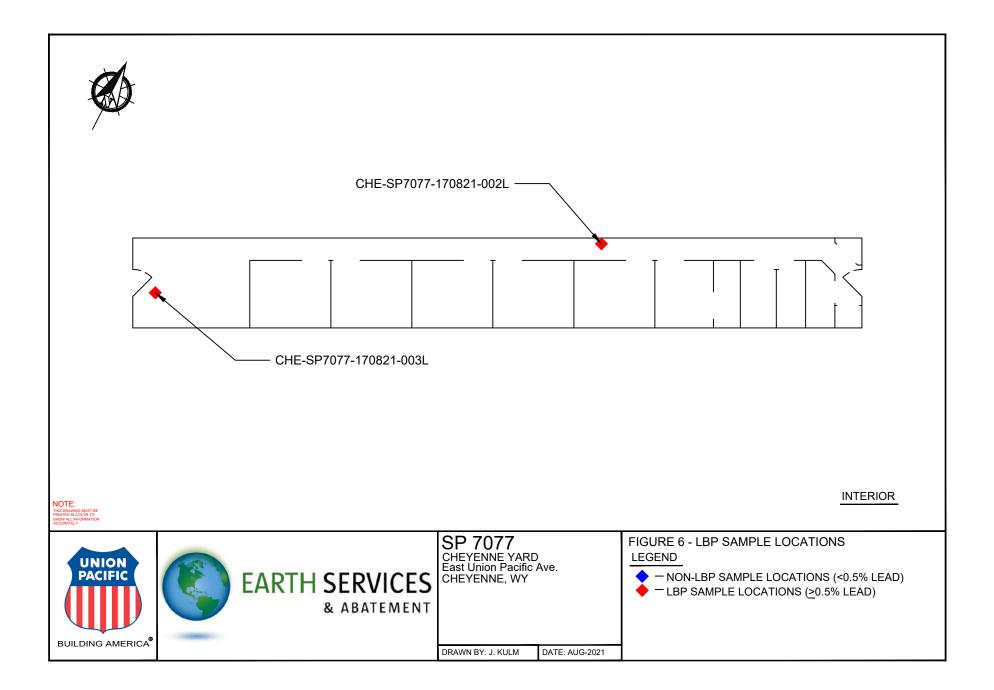


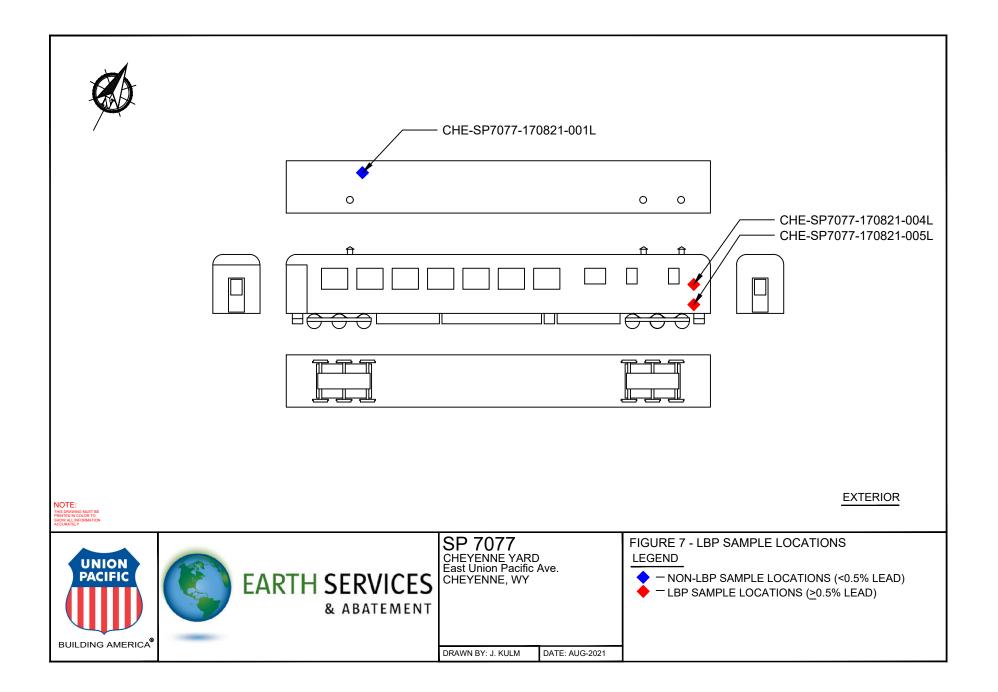


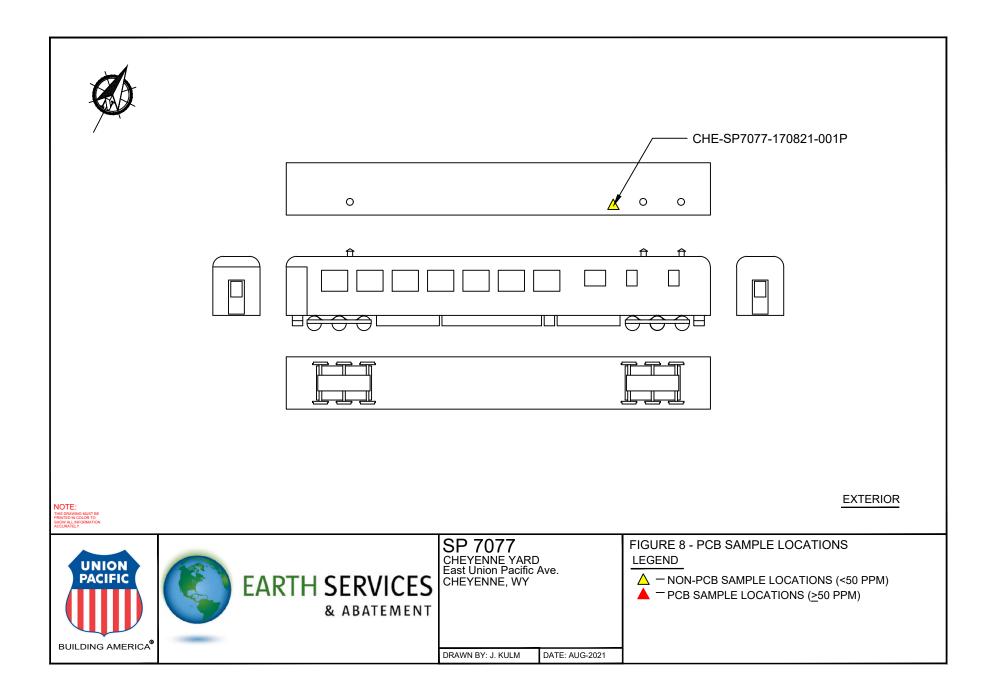


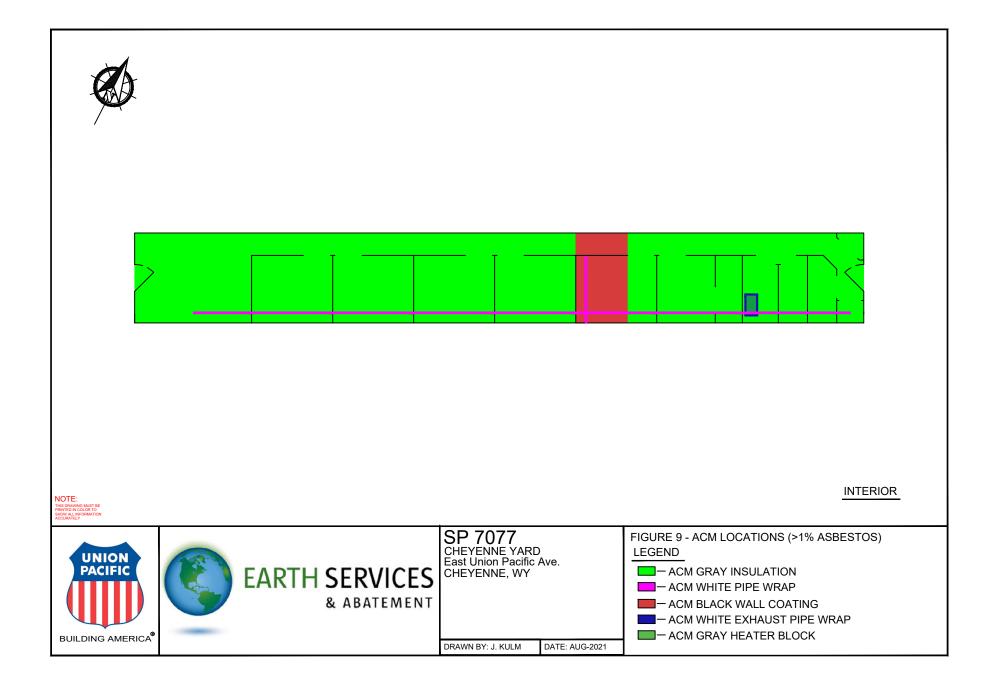


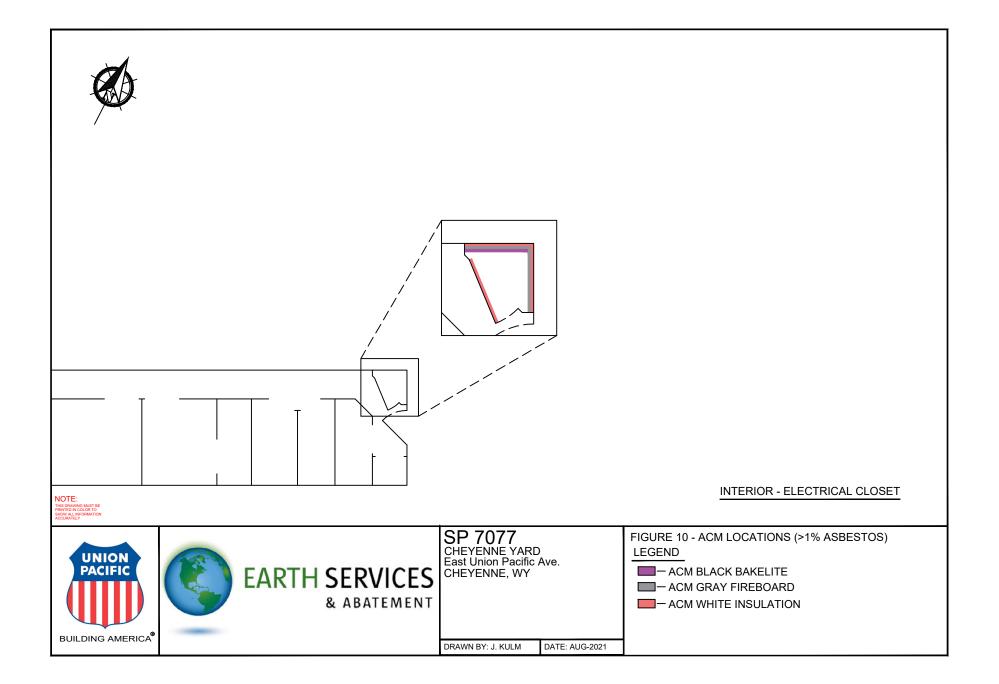


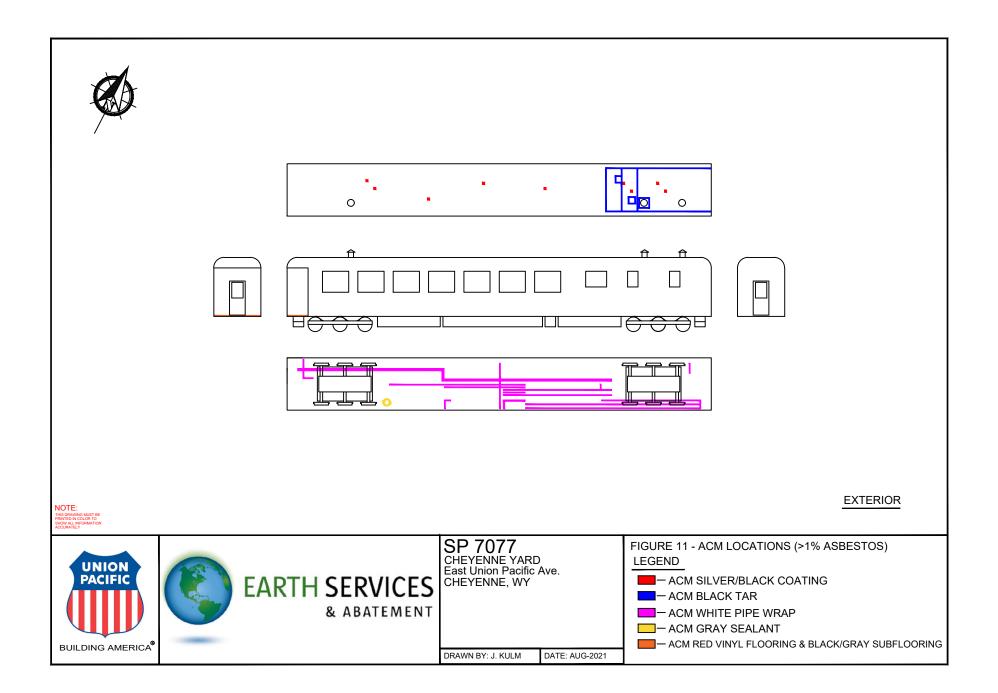












Appendix 2 - Lab Reports and Chain of Custody Receipts

Report Date09/08/2021Rolling Stock TypeRolling Stock NoSP 7077

3113 Red Bluff Road, Pasadena, TX 77503 Phone: (713) 290-0223 - Fax: (713) 290-0248 *J3Resources.com*



Bulk Asbestos Fiber Analysis by Polarized Light Microscopy (PLM) EPA 600/M4-82-020; 600/R-93/116 - Point Count Method

Joseph Kulm Earth Services & Abatement, Inc. 6700 E. 50th Avenue Commerce City CO 80022

Arnold Flores

Analyst

NVLAP Lab Code: 600120-0

 Order #:
 JH21130144

 Project #:
 215WY001

 Date Received:
 25-Aug-2021

 Date Analyzed:
 29-Aug-2021

 Date Reported:
 30-Aug-2021

SP 7077 - WY Rollingstock Inspections

Sample ID #	Sample Description	Asbestos Constituents	6	Non-Asbestos Constituents	
CHE-SP7077- 170821-001	Coating, Silver/ Gray, Homogeneous	Chrysotile	6%	Non-Fibrous Material	94%
CHE-SP7077- 170821-002	Coating, *Not analyzed per client reque	st			
CHE-SP7077- 170821-003	Coating, *Not analyzed per client reque	st			
CHE-SP7077- 170821-004	LAYER 1 Caulk, Clear, Homogeneous	None Detected		Non-Fibrous Material	100%
	LAYER 2 Tar, Black, Homogeneous	Chrysotile	8%	Non-Fibrous Material	92%
CHE-SP7077- 170821-005	LAYER 1 Caulk, Clear, Homogeneous	None Detected		Non-Fibrous Material	100%
	LAYER 2 Tar, *Not analyzed per client request				
CHE-SP7077- 170821-006	Caulk, Clear, Homogeneous	None Detected		Non-Fibrous Material	100%
CHE-SP7077- 170821-007	Sealant, White, Homogeneous	None Detected		Non-Fibrous Material	100%
CHE-SP7077- 170821-008	Sealant, White, Homogeneous	None Detected		Non-Fibrous Material	100%
CHE-SP7077- 170821-009	Sealant, White, Homogeneous	None Detected		Non-Fibrous Material	100%

Scott Ward, Ph.D. Lab Director

Page 1 of 6

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These results apply to the sample(s) as received. This report is for the exclusive use of the addressed client and shall not be reproduced except in full, without written approval by Eurofins J3 Resources, Inc. (EJ3). Samples are analyzed according to the methods listed above and are subject to the inherent limitations of PLM and interference of matrix components. Reporting limit for the above method is a function of the quantity of sample analyzed, matrix interference, sample preparation, fiber size, and distribution. Asbestos may be detected in concentrations of <1% by area if sufficient material is analyzed. EJ3 recommends TEM confirmation of soils, verniculite and non-friable organically bound materials (NOB) reported as None Detected or < 1% Asbestos by PLM. All samples received in good condition unless otherwise noted. This report shall not be used to claim product approval, certification, or endorsement by NVLAP, NIST, or any agency of the federal government.

AIHA-LAP, LLC Lab ID: 157714

3113 Red Bluff Road, Pasadena, TX 77503 Phone: (713) 290-0223 - Fax: (713) 290-0248 *J3Resources.com*



Bulk Asbestos Fiber Analysis by Polarized Light Microscopy (PLM) EPA 600/M4-82-020; 600/R-93/116 - Point Count Method

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Arnold Flores

Analyst

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 29-Aug-2021

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 30-Aug-2021

SP 7077 - WY Rollingstock Inspections

Sample ID #	Sample Description	Asbestos Constituents	6	Non-Asbestos Constituents	
CHE-SP7077- 170821-010	LAYER 1 Paper, Brown, Homogeneous	None Detected		Cellulose Fiber	100%
	LAYER 2 Canvas Wrap, White, Homogeneous	None Detected		Cellulose Fiber Non-Fibrous Material	95% 5%
	LAYER 3 Insulation, Brown, Homogeneous	None Detected		Hair	100%
	LAYER 4 Insulation, Gray, Homogeneous	Chrysotile	40%	Cellulose Fiber Non-Fibrous Material	20% 40%
CHE-SP7077- 170821-011	Insulation, *Not analyzed per client request				
CHE-SP7077- 170821-012	LAYER 1 Insulation, Brown, Homogeneous	None Detected		Hair	100%
	LAYER 2 Insulation, *Not analyzed per client request				
CHE-SP7077- 170821-013	Coating, Gray/ Black, Homogeneous	None Detected		Non-Fibrous Material	100%
CHE-SP7077- 170821-014	Coating, Gray/ Black, Homogeneous	None Detected		Non-Fibrous Material	100%
CHE-SP7077- 170821-015	Coating, Gray/ Black, Homogeneous	None Detected		Non-Fibrous Material	100%
CHE-SP7077- 170821-016	Pipe Wrap, White, Homogeneous	Chrysotile	30%	Non-Fibrous Material	70%
CHE-SP7077- 170821-017	Pipe Wrap, *Not analyzed per client request				

Scott Ward, Ph.D. Lab Director

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Page 2 of 6

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AIHA-LAP, LLC Lab ID: 157714

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Bulk Asbestos Fiber Analysis by Polarized Light Microscopy (PLM) EPA 600/M4-82-020; 600/R-93/116 - Point Count Method

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 Date Received:
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 Date Analyzed:
 29-Aug-2021

 Date Reported:
 30-Aug-2021

SP 7077 - WY Rollingstock Inspections

Sample ID #	Sample Description	Asbestos Constituents	5	Non-Asbestos Constituents	
CHE-SP7077- 170821-018	Pipe Wrap, *Not analyzed per client request				
CHE-SP7077- 170821-019	Sealant, Silver, Homogeneous	Chrysotile	6%	Non-Fibrous Material	94%
CHE-SP7077- 170821-020	Sealant, *Not analyzed per client request				
CHE-SP7077- 170821-022	Cementitious Flooring, Red, Homogeneous Original PLM Result: <1% Chrysotile	Chrysotile	<0.25%	Non-Fibrous Material	100.00%
400 pt. POINT COUNT	<u> </u>				
CHE-SP7077- 170821-023	Cementitious Flooring, Red, Homogeneous Original PLM Result: <1% Chrysotile	Chrysotile	0.25%	Non-Fibrous Material	99.75%
400 pt. POINT COUNT					
CHE-SP7077- 170821-024	Cementitious Flooring, Red, Homogeneous Original PLM Result: <1% Chrysotile	Chrysotile	0.75%	Non-Fibrous Material	99.25%
400 pt. POINT COUNT					
CHE-SP7077- 170821-025	Wire Wrap, Black/ Brown, Homogeneous	None Detected		Cellulose Fiber Non-Fibrous Material	80% 20%
CHE-SP7077- 170821-026	Wire Wrap, Black/ Brown, Homogeneous	None Detected		Cellulose Fiber Non-Fibrous Material	80% 20%
CHE-SP7077- 170821-027	Wire Wrap, Black/ Brown, Homogeneous	None Detected		Cellulose Fiber Non-Fibrous Material	80% 20%

Scott Ward, Ph.D. Lab Director

Arnold Flores Analyst Scott Ward, Ph.D. Lab Director These results apply to the sample(s) as received. This report is for the exclusive use of the addressed client and shall not be reproduced except in full, without written approval by Eurofins J3 Resources, Inc. (EJ3). Samples are analyzed according to the methods listed above and are subject to the inherent limitations of PLM and interference of matrix components. Reporting limit for the above method is a function of the quantity of sample analyzed, matrix interference, sample preparation, fiber size, and distribution. Asbestos may be detected in concentrations of <1% by area if sufficient material is analyzed. EJ3 recommends TEM confirmation of soils, verniculite and non-friable organically bound materials (NOB) reported as None Detected or < 1% Asbestos by PLM. All samples received in good condition unless otherwise noted. This report shall not be used to claim product approval, certification, or endorsement by NVLAP, NIST, or any agency of the federal government.

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Bulk Asbestos Fiber Analysis by Polarized Light Microscopy (PLM) EPA 600/M4-82-020; 600/R-93/116 - Point Count Method

Joseph Kulm Earth Services & Abatement, Inc. 6700 E. 50th Avenue Commerce City CO 80022
 Order #:
 JH21130144

 Project #:
 215WY001

 Date Received:
 25-Aug-2021

 Date Analyzed:
 29-Aug-2021

 Date Reported:
 30-Aug-2021

SP 7077 - WY Rollingstock Inspections

Sample ID #	Sample Description	Asbestos Constituents	S	Non-Asbestos Constituents	
CHE-SP7077- 170821-028	LAYER 1 Mastic, Yellow, Homogeneous	None Detected		Non-Fibrous Material	100%
	LAYER 2 Flooring, Red, Homogeneous Original PLM Result: 3% Chrysotile No Mastic Present	Chrysotile	2.41%	Non-Fibrous Material	97.59%
400 pt. POINT COUNT					
	LAYER 3 Subflooring, Black/ Gray, Homogeneous Original PLM Result: 3% Chrysotile	Chrysotile	1.75%	Non-Fibrous Material	98.25%
400 pt. POINT COUNT					
	Gravimetric Reduction Pre	ep - Layer 2			
CHE-SP7077- 170821-029	LAYER 1 Mastic, Yellow, Homogeneous	None Detected		Non-Fibrous Material	100%
	LAYER 2 Flooring, *Not analyzed per client request LAYER 3 Subflooring, *Not analyzed per client request	t			
CHE-SP7077- 170821-030	LAYER 1 Mastic, Yellow, Homogeneous	None Detected		Non-Fibrous Material	100%
	LAYER 2 Flooring, *Not analyzed per client request LAYER 3 Subflooring, *Not analyzed per client request	t			
CHE-SP7077- 170821-031	Coating, Green/ Black, Homogeneous	Chrysotile	6%	Non-Fibrous Material	94%
CHE-SP7077- 170821-032	Coating, *Not analyzed per client request				

Scott Ward, Ph.D. Lab Director

 Arnold Flores
 Analyst
 Scott Ward, Ph.D.
 Lab Director

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 Page 4 of 6

3113 Red Bluff Road, Pasadena, TX 77503 Phone: (713) 290-0223 - Fax: (713) 290-0248 *J3Resources.com*



Bulk Asbestos Fiber Analysis by Polarized Light Microscopy (PLM) EPA 600/M4-82-020; 600/R-93/116 - Point Count Method

Joseph Kulm Earth Services & Abatement, Inc. 6700 E. 50th Avenue Commerce City CO 80022

Arnold Flores

Analyst

NVLAP Lab Code: 600120-0

 Order #:
 JH21130144

 Project #:
 215WY001

 Date Received:
 25-Aug-2021

 Date Analyzed:
 29-Aug-2021

 Date Reported:
 30-Aug-2021

SP 7077 - WY Rollingstock Inspections

Sample ID #	Sample Description	Asbestos Constituents		Non-Asbestos Constituents	
CHE-SP7077- 170821-033	Coating, *Not analyzed per client reques	t			
CHE-SP7077- 170821-034	Bakelite, Black, Homogeneous Original PLM Result: 2% Chrysotile	Chrysotile	1.59%	Cellulose Fiber Non-Fibrous Material	10% 88.41%
400 pt. POINT COUNT					
	Gravimetric Reduction P	ер			
CHE-SP7077- 170821-035	Bakelite, *Not analyzed per client reques	t			
CHE-SP7077- 170821-036	Bakelite, *Not analyzed per client reques	t			
CHE-SP7077- 170821-037	Fireboard, Gray, Homogeneous	Chrysotile	20%	Non-Fibrous Material	80%
CHE-SP7077- 170821-038	Fireboard, *Not analyzed per client request				
CHE-SP7077- 170821-039	Fireboard, *Not analyzed per client request				
CHE-SP7077- 170821-040	Insulation, White, Homogeneous	Chrysotile	30%	Non-Fibrous Material	70%
CHE-SP7077- 170821-042	Insulation, *Not analyzed per client request				
CHE-SP7077- 170821-043	Wrap, White, Homogeneous	Chrysotile	30%	Non-Fibrous Material	70%
CHE-SP7077- 170821-044	Wrap, *Not analyzed per client request				

Scott Ward, Ph.D. Lab Director

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Page 5 of 6

These results apply to the sample(s) as received. This report is for the exclusive use of the addressed client and shall not be reproduced except in full, without written approval by Eurofins J3 Resources, Inc. (EJ3). Samples are analyzed according to the methods listed above and are subject to the inherent limitations of PLM and interference of matrix components. Reporting limit for the above method is a function of the quantity of sample analyzed, matrix interference, sample preparation, fiber size, and distribution. Asbestos may be detected in concentrations of <1% by area if sufficient material is analyzed. EJ3 recommends TEM confirmation of soils, vermiculite and non-friable organically bound materials (NOB) reported as None Detected or < 1% Asbestos by PLM. All samples received in good condition unless otherwise noted. This report shall not be used to claim product approval, certification, or endorsement by NVLAP, NIST, or any agency of the federal government.

AIHA-LAP, LLC Lab ID: 157714

3113 Red Bluff Road, Pasadena, TX 77503 Phone: (713) 290-0223 - Fax: (713) 290-0248 J3Resources.com



Bulk Asbestos Fiber Analysis by Polarized Light Microscopy (PLM) EPA 600/M4-82-020; 600/R-93/116 - Point Count Method

Joseph Kulm Earth Services & Abatement, Inc. 6700 E. 50th Avenue Commerce City CO 80022

Order #: JH21130144 215WY001 Project #: 25-Aug-2021 Date Received: 29-Aug-2021 Date Analyzed: **Date Reported:** 30-Aug-2021

SP 7077 - WY Rollingstock Inspections

Sample ID # Sample Description		Asbestos Constituents	Non-Asbestos Constituents	
CHE-SP7077- 170821-045	Wrap, *Not analyzed per client request			
CHE-SP7077- 170821-046	Heater Block, Gray, Homogeneous	Chrysotile 10%	Non-Fibrous Material	90%
CHE-SP7077- 170821-047	Heater Block, *Not analyzed per client request			
CHE-SP7077- 170821-048	Heater Block, *Not analyzed per client request			
CHE-SP7077- 170821-049	LAYER 1 Coating, Silver, Homogeneous	None Detected	Cellulose Fiber Non-Fibrous Material	2% 98%
	LAYER 2 Wallpaper, Brown, Homogeneous	None Detected	Synthetic Fiber Cellulose Fiber	70% 30%
CHE-SP7077- 170821-050	LAYER 1 Coating, Silver, Homogeneous	None Detected	Cellulose Fiber Non-Fibrous Material	2% 98%
	LAYER 2 Wallpaper, Brown, Homogeneous	None Detected	Synthetic Fiber Cellulose Fiber	70% 30%
CHE-SP7077- 170821-051	LAYER 1 Coating, Silver, Homogeneous	None Detected	Cellulose Fiber Non-Fibrous Material	2% 98%
	LAYER 2 Wallpaper, Brown, Homogeneous	None Detected	Synthetic Fiber Cellulose Fiber	70% 30%

Scott Ward, Ph.D. Lab Director

TDSHS License: 30-0457

Arnold Flores Analyst These results apply to the sample(s) as received. This report is for the exclusive use of the addressed client and shall not be reproduced except in full, without written approval by Eurofins J3 Resources, Inc. (EJ3). Samples are analyzed according to the methods listed above and are subject to the inherent limitations of PLM and interference of matrix components. Reporting limit for the above method is a function of the quantity of sample analyzed, matrix interference, sample preparation, fiber size, and distribution. Asbestos may be detected in concentrations of <1% by area if sufficient material is analyzed. EJ3 recommends TEM confirmation of soils, verniculite and non-friable organically bound materials (NOB) reported as None Detected or < 1% Asbestos by PLM. All samples received in good condition unless otherwise noted. This report shall not be used to claim product approval, certification, or endorsement by NVLAP, NIST, or any agency of the federal government. Page 6 of 6

AIHA-LAP, LLC Lab ID: 157714

NVLAP Lab Code: 600120-0

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J3 Resources

🗌 Open Lab Fee

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Project #: 215WY001 -	SP 7077				Telep	hone – Office/Ce	402-578-	6858
Reports - Email Addres	s: amanda	wozał	@esasite.	com, josepl	n.kulm@es	asite.com, robert	.szynskie@	esasite.com
Invoice - Email Address	s: same				Noti	fication By: Em	nail: 🔳	Verbal: 🛛
Special Instructions: 40	0 point-cou	int san	nples with c	detections u	p to 5% as	bestos with GR, a	as needed	
			Turnarou	ind Times	s — Pleas	e Select One		
Emergency* 🛛	1	Day		2 Day		3 Day		5 Day 🛛
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PLM - Bulk	PCM -	Air	TEM - A	Air TEI	M - Bulk	TEM - Water	TEM - Du	ust Soil/Vermiculite/Ore
 EPA 600/R-93/116 Visual Estimation (<1%) 400 Point Count 0.25% 1,000 Point Count 0.1% Gravimetric Reduction Matrix Reduction (+/-) NIOSH 9002 OSHA ID-191 	 NIOSH 7 ASTM D ISO 8672 OSHA IE 	7201 2	○ AHERA ○ NIOSH 7/ ○ ASTM DE ○ ISO 1031 ○ ISO 1379	402 Redu 281 O Matr 2 Redu 0 Qua	uction (+/-) litative (+/-) op Mount	EPA 100.2 Drinking Water o >10 µm fibers o ≥0.5 µm fibers EPA 100.2 Effluent / WW Received on ice: o Yes ○ No Temp:	ASTM D5 Microvac ASTM D6 Wipe 600/J-93/ Carpet - E Bulk Dust Qualitative	 ASTM 7521-TEM (<1%) CARB 435-Modified Soil PLM Only (+/-) Vermiculite - TEM (+/-) Vermiculite-Cincinnati
			METAL	S	· · · ·		SILI	CA/PARTICULATES
Flame AA		Gr	aphite Furn LEAD			ICP	X-Ray	Diffraction / Gravimetric
O Lead in Paint - SW846 7420/3050B O Drinking Water - EPA 200.9 O Lead in Air - NIOSH 7082 O Wastewater - SW846-7421 O Lead in Wipes - SW846 7420/3050B O Soil/Sludge - SW846-7421 O Lead in Soil - SW846 7420/3050B O Air - NIOSH 7105 O TCLP - SW846-1311/6010B O Air - NIOSH 7105		/846-7421 846-7421	 Elements in Air – NIOSH 7300 Wipe/Soil – SW846-6010B Effluent – SW846-6010B Welding Fume – NIOSH 7300M NIOSH 0500 – Total Particulates NIOSH 0600 – Respirable Particulates 					
Total Number of S	amples S	Subm	itted: 49		Positive	e Stop: 🔳	YES	□ NO
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Relinquished By:	m	B	Ľ			Date	e: <u>*/20</u>	21 Time:
Received By:						Date	e: Of Charles	<u>}0)</u> Time: <u>4.40</u> /-
							. /	T !
Relinquished By:						Date	e:	Time:

Eurofins J3 Resources, Inc. + 6110 West 34th Street + Houston, Texas 77092 + tel: 713-290-0221 + fax: 713-290-0248

IH CHAIN OF CUSTODY

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J3 Resources

Project Name WY Rollingstock Inspections Project Number 215WY001 - SP

SAMPLE IDENTIFICATION

Page ____ of ____

SAMPLE NUMBER	SAMPLE LOCATION / MATERIAL	VOLUME/CONDITION
CHE-SP7077-170821-001	Silver/black coating	
CHE-SP7077-170821-002	Roof patches	
CHE-SP7077-170821-003		
CHE-SP7077-170821-004	Clear silicone caulk	
CHE-SP7077-170821005	Roof seams	
CHE-SP7077-170821-006		
CHE-SP7077-170821-007	White sealant	
CHE-SP7077-170821-008	Roof patches	
CHE-SP7077-170821-009		
CHE-SP7077-170821-010	Insulation	
CHE-SP7077-170821-011	Interior walls, ceiling and floor	
CHE-SP7077-170821-012		
CHE-SP7077-170821-013	Thin black/gray coating	
CHE-SP7077-170821-014	Roof	
CHE-SP7077-170821-015		
CHE-SP7077-170821-016	Pipe Wrap	
CHE-SP7077-170821-017	Undercarriage and ceiling	
CHE-SP7077-170821-018		
CHE-SP7077-170821-019	Gray sealant	
CHE-SP7077-170821-020	Undercarriage, former pipe locations	
CHE-SP7077-170821-022	Cementous Flooring	
CHE-SP7077-170821-023	Floors throughout	
CHE-SP7077-170821-024		

Eurofins J3 Resources, Inc. + 6110 West 34th Street + Houston, Texas 77092 + tel: 713-290-0221 + fax: 713-290-0248 Eurofins J3 Resources, Inc. + 3113 Red Bluff Road + Pasadena, Texas 77503 + tel: 713-290-0223 + fax: 713-290-0248 Revision #v7/MF Revision Date: 3/09/2020

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Project Name WY Rollingstock Inspections

Project Number 215WY001 - SPa

SAMPLE IDENTIFICATION

Page ____ of ____

J3 Resources

SAMPLE NUMBER	SAMPLE LOCATION / MATERIAL	VOLUME/CONDITION
CHE-SP7077-170821-025	Electric Wires	
CHE-SP7077-170821-026	Interior walls and ceiling elect. area	
CHE-SP7077-170821-027		
CHE-SP7077-170821-028	Vinyl Flooring	
CHE-SP7077-170821-029	Aft deck	
CHE-SP7077-170821-030		
CHE-SP7077-170821-031	Black wall coating	
CHE-SP7077-170821-032	A/C area	
CHE-SP7077-170821-033		
CHE-SP7077-170821-034	Bakelite	
CHE-SP7077-170821-035	Elec. Area	
CHE-SP7077-170821-036		
CHE-SP7077-170821-037	Fireboard	
CHE-SP7077-170821-038	Behind Elec. components	
CHE-SP7077-170821-039		
CHE-SP7077-170821-040	Mag Block	
CHE-SP7077-170821-042	Walls and doors	
CHE-SP7077-170821-043	Exhaust Wrap	
CHE-SP7077-170821-044	Front furnace	
CHE-SP7077-170821-045		
CHE-SP7077-170821-046	Heater Block	
CHE-SP7077-170821-047	Front furnace	
CHE-SP7077-170821-048		

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J3 Resources

Project Name WY Rollingstock Inspections Project Number 215WY001 - SPE

SAMPLE IDENTIFICATION

Page ____ of ____

SAMPLE NUMBER	SAMPLE LOCATION / MATERIAL	VOLUME/CONDITION
CHE-SP7077-170821-049	Silver coating	
CHE-SP7077-170821-050	Interior walls	
CHE-SP7077-170821-051		
· · · /		
······································		
······		
Comments/Special Instructions:		

Eurofins J3 Resources, Inc. • 6110 West 34th Street • Houston, Texas 77092 • tel: 713-290-0221 • fax: 713-290-0248 Eurofins J3 Resources, Inc. • 3113 Red Bluff Road • Pasadena, Texas 77503 • tel: 713-290-0223 • fax: 713-290-0248



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Asbestos Chain of Custody

EMSL Order Number (Lab Use Only): こって (のらこつ名 EMSL Analytical, Inc. 1010 Yuma Street

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

Company : Earth Ser	vices & Abatement, In	C.		EMSL-Bi If Bill to is Diffe	Il to: Different erent note instructions in Co		
Street: 6700 E. 50th Ave.			Third Party Billing requires written authorization from third party				
				al Code: 80022		nited States	
Report To (Name): An	nanda Wozab		Telephor	ie #: 303-991-1	280		
	special instructruction		Fax #: 3	03-991-1282	Purchase		
	r: 215WY001, SP 707	7		rovide Results:		mail Mail	
U.S. State Samples T				cut Samples: [esidential	
		around Time (TA					
*For TEM Air 3 hr through	Hour 24 Hour 6 hr, please call ahead to sch form for this service. Analysis	edule.*There is a prer	nium charge	for 3 Hour TEM AH	6 Hour 1 Wee ERA or EPA Level II TAT. ditions located in the Anal	You will be asked to sign	
PCM - Air Check if		<u>TEM – Air</u> 4-			TEM- Dust		
□ NIOSH 7400		AHERA 40 C	FR, Part 7	63	🔲 Microvac - ASTM	D 5755	
w/ OSHA 8hr. TW/	ł	🛛 NIOSH 7402			🗌 Wipe - ASTM D6	480	
PLM - Bulk (reporting	<u>l limit)</u>	🔲 EPA Level II			Carpet Sonication	n (EPA 600/J-93/167)	
PLM EPA 600/R-93	9/116 (<1%)	🔲 ISO 10312			Soil/Rock/Vermicu	ite	
PLM EPA NOB (<1	%)	TEM - Bulk			🗌 🗆 PLM CARB 435 -	A (0.25% sensitivity)	
Point Count		TEM EPA NC	В		🗌 PLM CARB 435 -	B (0.1% sensitivity)	
400 (<0.25%) 🗌 10	000 (<0.1%)	🔲 NYS NOB 19	B.4 (non-fri	able-NY)		- B (0.1% sensitivity)	
Point Count w/Gravime	etric	🗌 🗌 Chatfield SOF	5		•	- C (0.01% sensitivity)	
■ 400 (<0,25%) □ 10	000 (<0.1%)	📋 TEM Mass Ar		A 600 sec. 2.5	TEM Qual. via Filtration Technique		
NYS 198.1 (friable	in NY)	TEM Water: EPA 100.2			TEM Qual. via Drop-Mount Technique		
NYS 198.6 NOB (r	on-friable-NY)	Fibers >10µm			<u>Other:</u>		
D NIOSH 9002 (<1%)	All Fiber Sizes	☐ Waste	Drinking			
	e Stop – Clearly Identify	y Homogenous G	roup Fil	ter Pore Size (A	Air Samples): 📋 0.8	Յµՠ 🔲 0.45µm	
Samplers Name: JO	seph Kulm		Sampl	ers Signature:			
Sample #		Sample Descripti	on		Volume/Area (Air) HA # (Bulk)	Date/Time Sampled	
CHE-SP7077-170821-021		Gray sealar	nt			8/17/2021, 1000 AM	
CHE-SP7077-170821-041		Mag Block				8/17/2021, 1145 AM	
	,						
					· · · · ·	1	
						1	
Client Sample # (s):	+				Total # of Samples:	· · · · · · · · · · · · · · · · · · ·	
Relinquished (Client)	: Robert &	molidate	8-20	5-21	Tim	e:	
Received (Lab):	/	MK Date	:	3126121	Tim	e: 4145	
Comments/Special In	Int count as needed. Send results to	; robert szynskie@esasite c	om, amanda wo	zab@esasite com, patric			
L						<u> </u>	

Page 1 of ____ pages

EMSL	EMSL Analytical, Inc. 1010 Yuma Street Denver, CO 80204 Tel/Fax: (303) 740-5700 / (303) 741-1400 http://www.EMSL.com / denverlab@emsl.com	EMSL Order: Customer ID: Customer PO: Project ID:	
Attention:	Amanda Wozab	Phone:	(303) 339-3051
	Earth Services & Abatement, Inc.	Fax:	
	6700 E. 50th Ave.	Received Date:	08/26/2021 4:45 PM
	Commerce City, CO 80022	Analysis Date:	08/30/2021 - 09/01/2021
		Collected Date:	08/17/2021
Project:	215WY001, SP 7077		

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

			Non-A	<u>Asbestos</u>	
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре
CHE-SP7077-170821-0 21	GRAY SEALANT	Gray/Black Non-Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
222106278-0001		-			
CHE-SP7077-170821-0 41	MAG BLOCK	Brown/White Fibrous Homogeneous		35% Non-fibrous (Other)	65% Chrysotile
222106278-0002					

Analyst(s)

Rodney Mosongo (2) Stuart Printz (1)

Henry Printz, TEM/PCM Laboratory Supervisor or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method") but augmented with procedures outlined in the 1993 ("final") version of the method. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis . Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Estimation of uncertainty is available on request.

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

Initial report from: 09/01/2021 16:14:21



Project:

215WY001, SP 7077

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: 222106278 CustomerID: ESAB42 CustomerPO: ProjectID:

Attn:	Amanda Wozab Earth Services & Abatement, Inc.	Phone: Fax:	(303) 339-3051
	6700 E. 50th Ave. Commerce City, CO 80022	Received: Analysis Date: Collected:	8/26/2021 04:45 PM 9/1/2021 8/17/2021

Test Report: Polarized Light Microscopy (PLM) - Point Count Performed by EPA 600/R-93/116 Method with Gravimetric Reduction and 400 Point Count

SAMPLE ID	DESCRIPTION	APPEARANCE	(%) M Organic		NON- ASBESTOS % Fibrous	NON- ASBESTOS % NON-FIBROUS	ASBESTOS % TYPES
CHE-SP7077- 170821-021 222106278-0001	GRAY SEALANT	Silver Fibrous	37.5	50.8		9.5 Non-fibrous (other)	2.2 Chrysotile
		Homogeneous					

Analyst(s)

Stuart Printz (1)

Henry Printz, TEM/PCM Laboratory Supervisor or other approved signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are writtin quality control criteria and met method specifications unless otherwise noted. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method") but augmented with procedures outlined in the 1993 ("final") version of the method. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Some samples may contain absetos fibers present in dimensions below PLM resolution limits. EMSL suggests that samples reported as <0.25% or none detected undergo additional analysis via TEM. Estimation of uncertainty is available on request.

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

Initial report from 09/01/2021 14:17:23

3113 Red Bluff Road Pasadena, Texas 77503 Phone: (713) 290-0223 – Fax: (832) 831-5669 *j3resources.com*

<u>Lead in Paint Performed by</u> Flame AA – USEPA SW846 7420/3050B (Mod.)

🛟 eurofins

Amanda Wozab Earth Services & Abatement, Inc. 6700 E. 50th Avenue Commerce City, CO 80022
 Order #:
 JP211029243

 Project #:
 215WY001

 Receipt Date:
 26-Aug-2021

 Analysis Date:
 30-Aug-2021

 Report Date:
 30-Aug-2021

SAMPLE ID	PAINT COLOR	LEAD CONCENTRATION (mg/kg)	LEAD CONCENTRATION (%)
CHE-SP7077-170821-001L	Black/Gray	250	0.025%
CHE-SP7077-170821-002L	Beige	17000	1.7%
CHE-SP7077-170821-003L	Red	5900	0.59%
CHE-SP7077-170821-004L	Yellow	43000	4.3%
CHE-SP7077-170821-005L	Light Red	43000	4.3%

WY Rollingstock Inspections-SP 7077

Reporting Limit = 50.0 mg/kg N/A = Not Applicable INS = Insufficient Sample Weight NS = Not Submitted

Analyst: Samantha Harrison

Scott Ward, Ph.D. Lab Director

This report relates only to the samples submitted. The analysis has been conducted according to the method(s) listed above. Blank corrections are not applied to data unless requested by the customer. This report is for the exclusive use of the addressed customer and shall not be reproduced except in full without written approval by Eurofins J3 Resources, Inc. (EJ3). EJ3 is an EPA NLLAP recognized lab by the AIHA-LAP, LLC ELLAP (Lab ID: 157714). Unless otherwise noted, all quality control samples performed within specifications established by the laboratory. The estimated accuracy is solely based on recovery data from internal laboratory control samples at the 95% confidence interval of the level of concern, derived from a 224.2 mg/kg lead in paint matrix reference material. The estimated accuracy does not account for uncertainty associated with the sampling process. Accuracy = +/-14%

J3 Resources

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J3 Resources

L] Open Lab	Fee		J3 -	29	243	only)			
Submitter Name: Jo	seph Kulm				Bill to:	Same			
Company: E	arth Service	es & Abate	ment, llc		Address:	-			
	00 E 50th A	ve							
Address.									
					City/State: Zip:				
City/State: Comme	erce City, C	20	Zip: 8002	is an a first solution and the	Ι Ψ π.	15WY001			
			Pro)ject I	nformati	on			
Project Name: WY Roll	ingstock Ins	spections			Projec	ct Manager: Ama	nda Wozab		
Project #: 215WY001 -	SP 7077				Telep	hone - Office/Ce	II 402-578-685	8	
Reports - Email Addres	s: amanda	.wozab@e	sasite.com	, joseph	.kulm@es	asite.com, robert.	.szynskie@esa	isite.com	
Invoice - Email Address	s: same				Notif	fication By: Em	ail: 🗉 Ver	bal: 🛛	
Special Instructions:							·		
		Tur	naround	Times	; — Please	e Select One			
Emergency*	1	Day 🛛		2 Day		3 Day		5 Day 🛛	
				ASB	ESTOS				
PLM - Bulk	PCM -	Air	EM - Air	TEN	4 - Bulk	TEM - Water	TEM - Dust	TEM/PLM Soil/Vermiculite/Ore	
EPA 600/R-93/116 Visual Estimation (<1%) 400 Point Count 0.25% 1,000 Point Count 0.1% Gravimetric Reduction Matrix Reduction (+/-) NIOSH 9002 OSHA ID-191	O ISO 8672	7201 ON 2 OA D-160 ON	NHERA 110SH 7402 NSTM D6281 SO 10312 SO 13794	Redu O Matr Redu O Qual	uction (+/-) litative (+/-) p Mount	 ○ EPA 100.2 Drinking Water >10 µm fibers ≥0.5 µm fibers ○ EPA 100.2 Effluent / WWV Received on ice: ○ Yes ○ No Temp: 	 ASTM D5755 Microvac ASTM D6480 Wipe 600/J-93/167 Carpet - EPA Buik Dust Qualitative 	 ○ ASTM 7521-TEM (+/-) ○ ASTM 7521-TEM (<1%) ○ CARB 435-Modified ○ Soil – PLM Only (+/-) ○ Vermiculite - TEM (+/-) ○ Vermiculite-Cincinnati ○ Erionite ID 	
		M	ETALS				SILICA	/PARTICULATES	
Flame AA		Graphi	te Furnace LEAD	AA -		ICP	X-Ray Di	ffraction / Gravimetric	
 	2 420/3050B 20/3050B	○ Wastewa	Water – EPA Iter – SW846- ge – SW846- 7	7421	 Elements in Air – NIOSH 7300 Wipe/Soil – SW846-6010B Effluent – SW846-6010B Welding Fume – NIOSH 7300M NIOSH 0500 – Total Particulates NIOSH 0600 – Respirable Particulates 			00 / OSHA 142 00 – Total Particulates	
Total Number of S	amples \$	Submitte	d: 5		Positive	e Stop: □	YES 💿	NO	
		\sim	/	Sigr	natures	$-\Lambda$			
Relinquished By:	M	A	_				e: <u>₹/20/21</u>	Time:	
Received By:	//					Date	e: 0[25/00	Time: 9-400	
Relinquished By:					6	Date	e: <u> </u>	_ Time:	
Received By:						Date		Time:	

* Emergency TAT requires prior lab notification. All samples analyzed outside normal busine **TAT's are in Business Days rather than Hours (i.e.1 Day TAT = End of Next Business Day)

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Project Name WY Rollingstock Inspections Project Number 215WY001 - SPE

SAMPLE IDENTIFICATION

Page ____ of ____

J3 Resources

SAMPLE NUMBER	SAMPLE LOCATION / MATERIAL	VOLUME/CONDITION
CHE-SP7077-170821-001L	Black/gray	
	Roof	
CHE-SP7077-170821-002L	Beige	
	Interior walls and ceiling	
CHE-SP7077-170821-003L	Red	
	Interior floors	
CHE-SP7077-170821-004L	Yellow	
	Exterior	
CHE-SP7077-170821-005L	Light Red	
	Exterior	
·····		

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LIMS Version: 7.020

Tuesday, September 07, 2021

Amanda Wozab Earth Services & Abatement 6700 E. 50th Ave. Commerce City, CO 80022

Re: ALS Workorder: 2108484 Project Name: Cheyenne RS Project Number: 215WY001

Dear Ms. Wozab:

One solid sample was received from Earth Services & Abatement, on 8/24/2021. The sample was scheduled for the following analysis:

PCBs

The results for these analyses are contained in the enclosed reports.

The data contained in the following report have been reviewed and approved by the personnel listed below. In addition, ALS certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental.

Thank you for your confidence in ALS Environmental. Should you have any questions, please call.

Sincerely,

ALS Environmental Katie M. OBrien Project Manager





2108484

PCB:

The sample was analyzed using GC/ECD (electron capture detectors) according to the current revision of SOP 409 based on SW-846 Method 8082.

All acceptance criteria were met.

Sample Number(s) Cross-Reference Table

OrderNum: 2108484 Client Name: Earth Services & Abatement Client Project Name: Cheyenne RS Client Project Number: 215WY001 Client PO Number:

Client Sample Number	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
CHE-SP7077-170821-001P; Clea	2108484-1		SOLID	17-Aug-21	10:00

	-
-	N
~	1

ALS Laboratory Group

	ALS Laboratory Group			Chain-	Chain-of-Custodv	todv					
	225 Commerce Drive, Fort Collins, Colorado 80524 TF: (800) 443-1511 PH: (970) 480-1511 FX: (970) 490-1522			7K	2108484	181	,	Form 20218	2 1 0 8 4	8 4 0	
		SAMPLER	R Joseph Kulm				DATE				
PROJECT NAME	PROJECT NAME Cheyenne RS	SITE ID	D SP 7077			TUR	TURNAROUND	5 Dav	d ISPOSAL		tooil of only
PROJECT No.	215WY001	EDD FORMAT	L			E			-	5 F	
ALC: NOT ALC		PURCHASE ORDER	æ						_		
COMPANY NAME	Earth Services & Abatement	BILL TO COMPANY	Y Earth Services & Abatement	& Abatement							
SEND REPORT TO		INVOICE ATTN TO							1-14		
ADDRESS	6700 E. 50th Ave.	ADDRESS	s 6700 E. 50th Ave.	ē							
CITY / STATE / ZIP	Commerce City, CO 80022	CITY / STATE / ZIP	P Commerce City, CO 80022	CO 80022		-					
PHONE	303-991-1280	PHONE	-								5
FAX	303-991-1282	FAX	-			32					
E-MAIL	<u>Amanda.Wozab@esasite.com:</u> Joseph.Kulm@ESAsite.com	E-MAIL				CB PÀ 806				10.14	
Lab ID	Field ID	Matrix	Sample Sample Date Time	e Bottles Pres.	Sc Sc	d					
	CHE-SP7077-170821-001P; Clear silicone caulk, roof seam	SN SN	08.17.21 1000			×					-
					-						
For metals or anions, p	rime come (circle). Est CST MST PST Matric: O ≡ oti S = soil NS = non-soil solid W = water L = liquid E = extract For metals or anions, please detail analytes below.	id W = water L = liquid E	= extract F = filter				CIONAMOR				
Comments:		QC PACKAGE (check below)	theck below)	RELINO	RELINQUISHED BY	1 mar	A lower and	PRIN PRIN	PRINTED NAME	DATE	TIME
		LEVEL	EVEL II (Standard QC)	-	RECEIVED BY			Amil/ami	- Jun a	2/201	SEON
		IEVEL	EVEL III (Std QC + forms)	RELING	RELINQUISHED BY		A A A A		- wind	1	85
			EVEL IV (Std QC + forms - raw data)	RE	RECEIVED BY						
5				RELINQ	RELINQUISHED BY						
Heservative Key:	1-HCI 2-HNO3 3-H2SO4 4-NaOH 5-NaHSO4 7-Other 8-4 degrees C 9-5035	8-4 degrees C 9-5035		RE	RECEIVED BY						

5 **G**f



03/18/2021

ALS Environmental - Fort Collins CONDITION OF SAMPLE UPON RECEIPT FORM

	Client:	EARTH SERVICE & ABATE	MENT	Worko	order No:	2	108484		
Project M	lanager:	КМО		Initials:	AXK	Date:		2108479	
							N/A	YES	NO
1. Are airbills / shipping documents present and/or removable?								v	
Tracking r			Х						
2. Are custody		Х							
3. Are custody		Х							
4. Is there a CC			Х						
Is the COC in agreement with samples received? (IDs, dates, times, # of samples, # of containers, matrix, requested analyses, etc.)								х	
Are short-hold samples present?									Х
7 Are all samples within holding times for the requested analyses?								Х	
8. Were all sample containers received intact? (not broken or leaking)								Х	
9. Is there sufficient sample for the requested analyses?								Х	
Are samples in proper containers for requested analyses? (form 250, Sample Handling Guidelines)								х	
11. Are all aqueous samples preserved correctly, if required? (excluding volatiles)									
Are all samples requiring no headspace (VOC, GRO, RSK/MEE, radon) free of bubbles > 6 mm (1/4 inch) diameter? (i.e. size of green pea)							х		
¹³ . Were the samples shipped on ice?									Х
^{14.} Were cooler temperatures measured at 0.1-6.0°C?									х
С	ooler #:	1							
Temperatu	ure (°C):	AMB							
# of custody seals	on cooler:	0							
External µR/h	•	9							
Background µR/h	r reading:	11							
		s < two times background and within D	OT acceptance	e criteria?	YES (If no, s	see Form 008	3.)		
* Please provide	details her	e for NO responses to boxes abo	ove - for 2 th	nru 5 & 7 ⁻	thru 12, no	otify PM &	continue	w/ login.	
· · · ·		ttles pH checked? NA ontacted? YES / ND / NA ,Contact		ent bottle	ID's vs AL	S lab ID's d	double-ch Date/	-	/: AK
Project Manager		1/ 1/1 hi ni					_	8/26/2	21
Form 201r30.xls		v							

*IR Gun #5, VWR SN 192272629

Client:

Project:

Sample ID:

Legal Location:

SAMPLE SUMMARY REPORT

Date	07-Sep-2	1
Date.	07-560-2	L

Work Order: 2108484

Lab ID: 2108484-1

Matrix: SOLID

Collection Date: 8/17/2021 10:00

Earth Services & Abatement 215WY001 Cheyenne RS

CHE-SP7077-170821-001P; Clear silicone caulk, roof

Percent Moisture:

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBs		SW808	32	Prep	Date: 9/2/2021	PrepBy: CPC
AROCLOR-1016	ND		1.5	MG/KG	1	9/3/2021 14:30
AROCLOR-1221	ND		3	MG/KG	1	9/3/2021 14:30
AROCLOR-1232	ND		1.5	MG/KG	1	9/3/2021 14:30
AROCLOR-1242	ND		1.5	MG/KG	1	9/3/2021 14:30
AROCLOR-1248	ND		1.5	MG/KG	1	9/3/2021 14:30
AROCLOR-1254	ND		1.5	MG/KG	1	9/3/2021 14:30
AROCLOR-1260	ND		1.5	MG/KG	1	9/3/2021 14:30
Surr: TETRACHLORO-M-XYLENE	109		69-129	%REC	1	9/3/2021 14:30
Surr: DECACHLOROBIPHENYL	105		55-135	%REC	1	9/3/2021 14:30

SAMPLE SUMMARY REPORT

Client:	et: 215WY001 Cheyenne RS			Date: 07-Sep-21		
Project:					2108484	
Sample ID:				Lab ID: 2108484-1		
Legal Location:					Matrix:	SOLID
Collection Date:	8/17/2021 10:00			Per	cent Moisture:	
Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Explanation of Q	Jualifiers					
Radiochemistry:						
	MDC ss than the sample specific MDC. s in control at 100-110%. Quantitative yield is assumed.	L	activity is gro LCS Recovery	eater than the below lower		orted
V2 Chamical Viold	nutaida dafault limita	н	- LCS Recovery	above uppe	r control limit.	

MDC.

P - LCS, Matrix Spike Recovery within control limits.

NC - Not Calculated for duplicate results less than 5 times MDC

B3 - Analyte concentration greater than MDC but less than Requested

N - Matrix Spike Recovery outside control limits

B - Analyte concentration greater than MDC.

- Y2 Chemical Yield outside default limits.
- W DER is greater than Warning Limit of 1.42
- * Aliquot Basis is 'As Received' while the Report Basis is 'Dry Weight'.
- # Aliquot Basis is 'Dry Weight' while the Report Basis is 'As Received'.
- G Sample density differs by more than 15% of LCS density.

D - DER is greater than Control Limit

M - Requested MDC not met.

Inorganics:

B - Result is less than the requested reporting limit but greater than the instrument method detection limit (MDL).

U or ND - Indicates that the compound was analyzed for but not detected.

E - The reported value is estimated because of the presence of interference. An explanatory note may be included in the narrative.

M - Duplicate injection precision was not met.

N - Spiked sample recovery not within control limits. A post spike is analyzed for all ICP analyses when the matrix spike and or spike duplicate fail and the native sample concentration is less than four times the spike added concentration.

Z - Spiked recovery not within control limits. An explanatory note may be included in the narrative.

- * Duplicate analysis (relative percent difference) not within control limits.
- S SAR value is estimated as one or more analytes used in the calculation were not detected above the detection limit.

Organics:

U or ND - Indicates that the compound was analyzed for but not detected.

B - Analyte is detected in the associated method blank as well as in the sample. It indicates probable blank contamination and warns the data user.

- E Analyte concentration exceeds the upper level of the calibration range.
- J Estimated value. The result is less than the reporting limit but greater than the instrument method detection limit (MDL).
- A A tentatively identified compound is a suspected aldol-condensation product.
- X The analyte was diluted below an accurate quantitation level.
- * The spike recovery is equal to or outside the control criteria used.
- + The relative percent difference (RPD) equals or exceeds the control criteria.
- G A pattern resembling gasoline was detected in this sample.
- D A pattern resembling diesel was detected in this sample.
- M A pattern resembling motor oil was detected in this sample.
- C A pattern resembling crude oil was detected in this sample.
- 4 A pattern resembling JP-4 was detected in this sample.
- 5 A pattern resembling JP-5 was detected in this sample.
- H Indicates that the fuel pattern was in the heavier end of the retention time window for the analyte of interest.
- L Indicates that the fuel pattern was in the lighter end of the retention time window for the analyte of interest.
- Z This flag indicates that a significant fraction of the reported result did not resemble the patterns of any of the following petroleum hydrocarbon products: gasoline
- JP-8
- diesel
- mineral spirits
- motor oil
- Stoddard solvent - bunker C

Client:	Earth Services & Abatement
Work Order:	2108484
Project:	215WY001 Cheyenne RS

QC BATCH REPORT

Batch ID: EX210902-3-2	Instrument ID: Pes	st-1		Method: S	N8082						
LCS Sample ID: EX210902-3	3			U	nits:MG/K	G	Analy	sis Date: 9	/3/2021	13:53	
Client ID:	Run II	D: PT210903-1	1			F	Prep Date: 9/2	/2021	DF:	1	
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qu
•	0.128	· ·				00.400				50	
AROCLOR-1016	0.128	0.0333	0.133		96	80-120				50	
AROCLOR-1260 Surr: TETRACHLORO-M-XYLENE	0.13	0.0333	0.133		98	80-125				50	
Surr: DECACHLOROBIPHENYL	0.0156		0.0167		99	69-129					
Suit. DECACHLOROBIFHENTE	0.0100		0.0167		94	55-135					
LCSD Sample ID: EX210902-3	3			U	nits: MG/K	G	Analy	sis Date: 9	/3/2021	14:12	
Client ID:	Run II	D: PT210903-1	1			F	Prep Date: 9/2	/2021	DF:	1	
Analyte	Result	ReportLimit	SPK Val	SPK Ref Value	%REC	Control Limit	Decision Level	RPD Ref Value	RPD	RPD Limit	Qu
AROCLOR-1016	0.135	0.0333	0.133		102	80-120		0.128	6	50	
AROCLOR-1260	0.14	0.0333	0.133		105	80-125		0.13	7	50	
Surr: TETRACHLORO-M-XYLENE	0.0172		0.0167		103	69-129			4		
Surr: DECACHLOROBIPHENYL	0.0171		0.0167		103	55-135			9		
MB Sample ID: EX210902-3	3			U	nits:MG/K	G	Analy	sis Date: 9	/3/2021	13:34	
Client ID:	Run II	D: PT210903-1	1			F	Prep Date: 9/2	/2021	DF:	1	
Analyte	Result	ReportLimit									Qu
AROCLOR-1016	ND	0.033									
AROCLOR-1221	ND	0.067									
AROCLOR-1232	ND	0.033									
AROCLOR-1242	ND	0.033									
AROCLOR-1248	ND	0.033									
AROCLOR-1254	ND	0.033									
AROCLOR-1260	ND	0.033									
	0.0188				113	69-129					
Surr: TETRACHLORO-M-XYLENE	0.0100				110	00 120					

The following samples were analyzed in this batch:

2108484-1

Appendix 3 - Modified Sawyer Algorithm

Report Date09/08/2021Rolling Stock TypeRolling Stock NoSP 7077

Asbestos Potential Exposure and Priority Level Algorithm

Aspestos Fotentiai Exposure and Frior Asset Number		SP 7077		
Exposure Area	Roof patches	Roof seams		
Asbestos Containing Material	Silver/black coating	Black tar		
Sample Number	CHE-SP7077-170821-001 thru 003	CHE-SP7077-170821-004 thru 005		
Size	NA	NA		
Quantity	10 SF	80 LF		
MATERIAL CONDITION (MC) 0 =No damage, excellent condition 1 =Very minor damage, no visible debris 2 =Damage is evident, small area 3 =Damage is easily seen, some debris 4 =Damage is widespread, debris is common 5 =Most or all material is damaged, hanging, and / or found as debris throughout the area	2	2		
BUILDING AGE (BA) 1 =>30 years old 0 =15 - 30 years old	1	1		
-1 =<15 years old				
MATERIAL TYPE Pipe Covering (PC)	NA	NA		
1 =MAG/CAL Silicate -1 =Air Cell / paper		<u> </u>		
Ceiling Plasters or Fireproofing (CP) -1 =Cementitious (Monocoat) 0 =Standard 1 ="Cotton Candy" texture	NA	NA		
WATER DAMAGE (WD)	0	0		
 0 =No water damage 1 =Small amount of damage can be seen; damage is localized rather than widespread 2 =Good deal of water damage; widespread 				
ROOF CHARACTERISTICS (RC) -0.5 =Sloped or Hipped -0.5 =Metal or Concrete 0.5 =Flat or Built-up	-0.5	-0.5		
EXPOSED SURFACE AREA (ESA) 0 =Material behind a permanent enclosure 2 =Material behind a lay-in ceiling or in open tunnel 4 =Material is exposed	4	4		
ACCESSIBILITY (AC)	3	3		
0 =Totally inaccessible 1 =Can only reach with hands, ie. pipe chase 2 =An open tunnel or above a drop ceiling 3 =Exposed overall, but can't reach, ie. >10' high 4 =Material is out in the open and <10' high				
ACTIVITY AND MOVEMENT (A/M) 0 =No occupants enter the area	1	1		
1 =Area is accessed infrequently 2 =Area is accessed frequently				
WORK ENVIRONMENT (WE) -0.5 = Sedentary	0.5	0.5		
0.5 =Non-sedentary SOUND AND MECHANICAL VIBRATIONS (SMV)	0.5	0.5		
0.5 =Frequent or Constant -0.5 =No recognizable vibration				
AIR - PLENUM / AIR STREAM (AP) 0 =No air plenum or air flow 1 =Air plenum or air flow exists	1	1		
VELOCITY (if Air Plenum = 1) (VEL) 0.25 =Recognizable by human feeling -0.25 =Non-recognizable by human feeling	0.25	0.25		
FLOW (if Air Plenum = 1) (FL) -0.25 =Constant, steady stream 0.25 =Impact, gusty flow	0.25	0.25		
FRIABILITY (F) 1 =Very hard to crumble under hand pressure 2 = Will crumble under a little hand pressure	2	1		
3 =Extremely easy to crumble under light pressure ASBESTOS CONTENT (ASB)	1	1		
0 =None <1% 1 =1% to 10% Asbestos 2 =11% to 50% Asbestos 3 =51% to 100% Asbestos	·	·		
Exposure Value	26	13		
Rating	3	4		
		· · · · · · · · · · · · · · · · · · ·		

Asbestos Potential Exposure and Priori		
Asset Number	SP 7077	SP 7077
Exposure Area	Interior walls, ceiling and floor	Undercarriage and ceiling
Asbestos Containing Material	Gray Insulation	White pipe wrap
-	CHE-SP7077-170821-010 thru 012	CHE-SP7077-170821-016 thru 018
Sample Number Size	NA	NA
Quantity	3800 SF	325 LF
MATERIAL CONDITION (MC)	1	3
0 =No damage, excellent condition 1 =Very minor damage, no visible debris 2 =Damage is evident, small area 3 =Damage is easily seen, some debris 4 =Damage is widespread, debris is common 5 =Most or all material is damaged, hanging, and / or found as debris throughout the area BUILDING AGE (BA)	1	1
1 =>30 years old 0 =15 - 30 years old -1 =<15 years old		
MATERIAL TYPE	NA	NA I
Pipe Covering (PC) 1 =MAG/CAL Silicate -1 =Air Cell / paper	NA	NA
Ceiling Plasters or Fireproofing (CP) -1 =Cementitious (Monocoat)	NA	NA
0 =Standard 1 ="Cotton Candy" texture		
WATER DAMAGE (WD)	0	0
 0 =No water damage 1 =Small amount of damage can be seen; damage is localized rather than widespread 2 =Good deal of water damage; widespread 		
ROOF CHARACTERISTICS (RC)	-0.5	-0.5
-0.5 =Sloped or Hipped -0.5 =Metal or Concrete 0.5 =Flat or Built-up		
EXPOSED SURFACE AREA (ESA)	4	4
 0 =Material behind a permanent enclosure 2 =Material behind a lay-in ceiling or in open tunnel 4 =Material is exposed 		
ACCESSIBILITY (AC)	4	4
0 =Totally inaccessible 1 =Can only reach with hands, ie. pipe chase 2 =An open tunnel or above a drop ceiling 3 =Exposed overall, but can't reach, ie. >10' high 4 =Material is out in the open and <10' high		
ACTIVITY AND MOVEMENT (A/M)	2	1
0 =No occupants enter the area 1 =Area is accessed infrequently 2 =Area is accessed frequently		
WORK ENVIRONMENT (WE)	0.5	0.5
-0.5 =Sedentary 0.5 =Non-sedentary		
SOUND AND MECHANICAL VIBRATIONS (SMV)	0.5	0.5
0.5 =Frequent or Constant -0.5 =No recognizable vibration		
AIR - PLENUM / AIR STREAM (AP)	1	1
0 =No air plenum or air flow 1 =Air plenum or air flow exists	·	i
VELOCITY (if Air Plenum = 1) (VEL)	-0.25	-0.25
0.25 =Recognizable by human feeling -0.25 =Non-recognizable by human feeling		
FLOW (if Air Plenum = 1) (FL) -0.25 =Constant, steady stream 0.25 =Impact quicty ifour	NA	NA
0.25 =Impact, gusty flow FRIABILITY (F)	3	1
1 =Very hard to crumble under hand pressure 2 = Will crumble under a little hand pressure 3 =Extremely easy to crumble under light pressure	<u>J</u>	I
ASBESTOS CONTENT (ASB) 0 =None <1%	2	2
1 =1% to 10% Asbestos 2 =11% to 50% Asbestos		
3 =51% to 100% Asbestos	70.5	20.5
Exposure Value	79.5	28.5
Rating	1	3

Asbestos Potential Exposure and Priori		
Asset Number	SP 7077	SP 7077
	Undercarriage, where pipe removed	Back deck floor
Exposure Area Asbestos Containing Material	Gray sealant	Red Vinyl flooring
	CHE-SP7077-170821-019 thru 021	CHE-SP7077-170821-028 thru 030
Sample Number Size	NA	NA
Quantity	2 LF	40 SF
MATERIAL CONDITION (MC)	1	2
0 =No damage, excellent condition 1 =Very minor damage, no visible debris 2 =Damage is evident, small area 3 =Damage is easily seen, some debris 4 =Damage is widespread, debris is common 5 =Most or all material is damaged, hanging, and / or found as debris throughout the area BUILDING AGE (BA)		1
1 =>30 years old 0 =15 - 30 years old -1 =<15 years old		
MATERIAL TYPE Pipe Covering (PC)	NA	NA
1 =MAG/CAL Silicate		00
-1 =Air Cell / paper Ceiling Plasters or Fireproofing (CP)	NA	NA
-1 =Cementitious (Monocoat) 0 =Standard		
1 ="Cotton Candy" texture WATER DAMAGE (WD)	0	0
0 =No water damage	<u> </u>	Ū Ū
 Small amount of damage can be seen; damage is localized rather than widespread Good deal of water damage; widespread 		
ROOF CHARACTERISTICS (RC)	-0.5	-0.5
-0.5 =Sloped or Hipped -0.5 =Metal or Concrete 0.5 =Flat or Built-up		
EXPOSED SURFACE AREA (ESA)	4	4
 0 =Material behind a permanent enclosure 2 =Material behind a lay-in ceiling or in open tunnel 4 =Material is exposed 		
ACCESSIBILITY (AC)	4	4
0 =Totally inaccessible 1 =Can only reach with hands, ie. pipe chase 2 =An open tunnel or above a drop ceiling 3 =Exposed overall, but can't reach, ie. >10' high 4 =Material is out in the open and <10' high		
ACTIVITY AND MOVEMENT (A/M)	0	2
0 =No occupants enter the area 1 =Area is accessed infrequently 2 =Area is accessed frequently		
WORK ENVIRONMENT (WE)	0.5	0.5
-0.5 =Sedentary 0.5 =Non-sedentary		
SOUND AND MECHANICAL VIBRATIONS (SMV) 0.5 =Frequent or Constant	0.5	0.5
-0.5 =No recognizable vibration AIR - PLENUM / AIR STREAM (AP)	1	1
0 =No air plenum or air flow 1 =Air plenum or air flow exists		
VELOCITY (if Air Plenum = 1) (VEL) 0.25 =Recognizable by human feeling -0.25 =Non-recognizable by human feeling	0.25	-0.25
FLOW (if Air Plenum = 1) (FL) -0.25 =Constant, steady stream 0.25 =Impact, gusty flow	0.25	NA
FRIABILITY (F)	1	2
 1 =Very hard to crumble under hand pressure 2 = Will crumble under a little hand pressure 3 =Extremely easy to crumble under light pressure 		
	1	1
0 =None <1% 1 =1% to 10% Asbestos 2 =11% to 50% Asbestos 3 =51% to 100% Asbestos		
Exposure Value	12	28.5
Rating	4	3
		·

Asbestos Potential Exposure and Prior	i	
Asset Number		SP 7077
	Back deck floor	A/C Area
Exposure Area		
Asbestos Containing Material	Black/gray subflooring	Black wall coating
Sample Number	CHE-SP7077-170821-028 thru 030	CHE-SP7077-170821-031 thru 033
Size	NA	NA
Quantity	40 SF	150 SF
MATERIAL CONDITION (MC) 0 =No damage, excellent condition 1 =Very minor damage, no visible debris 2 =Damage is evident, small area 3 =Damage is easily seen, some debris 4 =Damage is widespread, debris is common 5 =Most or all material is damaged, hanging, and / or found as debris throughout the area	2	1
BUILDING AGE (BA) 1 =>30 years old 0 =15 - 30 years old -1 =<15 years old	1	1
MATERIAL TYPE		
Pipe Covering (PC) 1 =MAG/CAL Silicate -1 =Air Cell / paper	NA	NA
Ceiling Plasters or Fireproofing (CP) -1 =Cementitious (Monocoat) 0 =Standard	NA	NA
1 ="Cotton Candy" texture		
WATER DAMAGE (WD) 0 =No water damage 1 =Small amount of damage can be seen; damage is localized rather than widespread 2 =Good deal of water damage; widespread	0	0
ROOF CHARACTERISTICS (RC)	-0.5	-0.5
-0.5 =Sloped or Hipped -0.5 =Metal or Concrete 0.5 =Flat or Built-up		
EXPOSED SURFACE AREA (ESA)	4	4
0 =Material behind a permanent enclosure 2 =Material behind a lay-in ceiling or in open tunnel 4 =Material is exposed		
ACCESSIBILITY (AC)	4	4
0 =Totally inaccessible 1 =Can only reach with hands, ie. pipe chase 2 =An open tunnel or above a drop ceiling 3 =Exposed overall, but can't reach, ie. >10' high 4 =Material is out in the open and <10' high		
	2	2
 0 =No occupants enter the area 1 =Area is accessed infrequently 2 =Area is accessed frequently 		
	0.5	0.5
-0.5 =Sedentary 0.5 =Non-sedentary		
SOUND AND MECHANICAL VIBRATIONS (SMV) 0.5 =Frequent or Constant -0.5 =No recognizable vibration	0.5	0.5
AIR - PLENUM / AIR STREAM (AP) 0 =No air plenum or air flow	1	1
1 =Air plenum or air flow exists VELOCITY (if Air Plenum = 1) (VEL) 0.25 =Recognizable by human feeling	-0.25	-0.25
-0.25 =Non-recognizable by human feeling		
FLOW (if Air Plenum = 1) (FL) -0.25 =Constant, steady stream 0.25 =Impact, gusty flow	NA	NA
FRIABILITY (F)	2	1
 1 =Very hard to crumble under hand pressure 2 = Will crumble under a little hand pressure 3 =Extremely easy to crumble under light pressure 		
ASBESTOS CONTENT (ASB) 0 =None <1% 1 =1% to 10% Asbestos 2 =11% to 50% Asbestos	1	1
3 =51% to 100% Asbestos		· · · · · · · · · · · · · · · · · · ·
Exposure Value	28.5	13.25
Rating	3	4
		· · / I

Asbestos Potential Exposure and Priori		
Asset Number	SP 7077	SP 7077
Expective Area	Electric box	Behind electrical components
Exposure Area Asbestos Containing Material	Black bakelite	Gray fireboard
Sample Number	CHE-SP7077-170821-034 thru 036	CHE-SP7077-170821-037 thru 039
Size	NA	NA
Quantity	4 SF	8 SF
MATERIAL CONDITION (MC)	2	1
 0 =No damage, excellent condition 1 =Very minor damage, no visible debris 2 =Damage is evident, small area 3 =Damage is easily seen, some debris 4 =Damage is widespread, debris is common 5 =Most or all material is damaged, hanging, and / or found as debris throughout the area 		
BUILDING AGE (BA)	1	1
1 =>30 years old 0 =15 - 30 years old -1 =<15 years old		
MATERIAL TYPE Pipe Covering (PC)	NA	NA
1 =MAG/CAL Silicate -1 =Air Cell / paper		
Ceiling Plasters or Fireproofing (CP)	NA	NA
-1 =Cementitious (Monocoat) 0 =Standard 1 ='Cotton Candy" texture		
WATER DAMAGE (WD)	0	0
0 =No water damage	Ū	0
 Small amount of damage can be seen; damage is localized rather than widespread Good deal of water damage; widespread 		
ROOF CHARACTERISTICS (RC)	-0.5	-0.5
-0.5 =Sloped or Hipped -0.5 =Metal or Concrete		
0.5 =Flat or Built-up EXPOSED SURFACE AREA (ESA)	4	4
0 =Material behind a permanent enclosure 2 =Material behind a lay-in ceiling or in open tunnel 4 =Material is exposed	4	4
ACCESSIBILITY (AC)	4	4
0 =Totally inaccessible 1 =Can only reach with hands, ie. pipe chase 2 =An open tunnel or above a drop ceiling 3 =Exposed overall, but can't reach, ie. >10' high 4 =Material is out in the open and <10' high		
ACTIVITY AND MOVEMENT (A/M)	2	2
0 =No occupants enter the area 1 =Area is accessed infrequently 2 =Area is accessed frequently		
WORK ENVIRONMENT (WE)	0.5	0.5
-0.5 =Sedentary		
0.5 =Non-sedentary SOUND AND MECHANICAL VIBRATIONS (SMV)	0.5	0.5
0.5 =Frequent or Constant -0.5 =No recognizable vibration	0.0	0.5
AIR - PLENUM / AIR STREAM (AP)	1	1
0 =No air plenum or air flow1 =Air plenum or air flow exists		
VELOCITY (if Air Plenum = 1) (VEL) 0.25 =Recognizable by human feeling -0.25 =Non-recognizable by human feeling	-0.25	-0.25
FLOW (if Air Plenum = 1) (FL) -0.25 =Constant, steady stream 0.25 =Impact, gusty flow	NA	NA
FRIABILITY (F)	1	1
 1 =Very hard to crumble under hand pressure 2 = Will crumble under a little hand pressure 3 =Extremely easy to crumble under light pressure 		
ASBESTOS CONTENT (ASB)	1	2
0 =None <1% 1 =1% to 10% Asbestos 2 =11% to 50% Asbestos 3 =51% to 100% Asbestos		
Exposure Value	14.25	26.5
Pating	4	3
Rating	7	J

Asbestos Potential Exposure and Prior	<u>i</u>	
Asset Number	SP 7077	SP 7077
	Electrical area door and walls	Front furnance exhaust pipe
Exposure Area	White Inculation	White exhaust nine wron
Asbestos Containing Material	White Insulation	White exhaust pipe wrap
Sample Number	CHE-SP7077-170821-040 thru 042	CHE-SP7077-170821-043 thru 045
Size Quantity	NA 30 SF	NA 15 SF
MATERIAL CONDITION (MC)	2	2
 0 =No damage, excellent condition 1 =Very minor damage, no visible debris 2 =Damage is evident, small area 3 =Damage is easily seen, some debris 4 =Damage is widespread, debris is common 5 =Most or all material is damaged, hanging, and / or found as debris throughout the area 		
BUILDING AGE (BA) 1 =>30 years old 0 =15 - 30 years old -1 =<15 years old	1	1
MATERIAL TYPE Pipe Covering (PC) 1 =MAG/CAL Silicate	1	1
 -1 =Air Cell / paper Ceiling Plasters or Fireproofing (CP) -1 =Cementitious (Monocoat) 	NA	NA
0 =Standard 1 ="Cotton Candy" texture		
WATER DAMAGE (WD)	0	0
 0 =No water damage 1 =Small amount of damage can be seen; damage is localized rather than widespread 2 =Good deal of water damage; widespread 		
ROOF CHARACTERISTICS (RC)	-0.5	-0.5
-0.5 =Sloped or Hipped -0.5 =Metal or Concrete 0.5 =Flat or Built-up		
EXPOSED SURFACE AREA (ESA)	4	4
 0 =Material behind a permanent enclosure 2 =Material behind a lay-in ceiling or in open tunnel 4 =Material is exposed 		
ACCESSIBILITY (AC)	4	4
0 =Totally inaccessible 1 =Can only reach with hands, ie. pipe chase 2 =An open tunnel or above a drop ceiling 3 =Exposed overall, but can't reach, ie. >10' high 4 =Material is out in the open and <10' high		
ACTIVITY AND MOVEMENT (A/M)	2	1
0 =No occupants enter the area 1 =Area is accessed infrequently 2 =Area is accessed frequently		
WORK ENVIRONMENT (WE)	0.5	0.5
-0.5 =Sedentary 0.5 =Non-sedentary		
SOUND AND MECHANICAL VIBRATIONS (SMV) 0.5 =Frequent or Constant -0.5 =No recognizable vibration	0.5	0.5
AIR - PLENUM / AIR STREAM (AP) 0 =No air plenum or air flow 1 =Air plenum or air flow exists	11	1
VELOCITY (if Air Plenum = 1) (VEL) 0.25 =Recognizable by human feeling -0.25 =Non-recognizable by human feeling	-0.25	-0.25
FLOW (if Air Plenum = 1) (FL) -0.25 =Constant, steady stream 0.25 =Impact, gusty flow	NA	NA
FRIABILITY (F)	3	3
 1 =Very hard to crumble under hand pressure 2 = Will crumble under a little hand pressure 3 =Extremely easy to crumble under light pressure 	·	
ASBESTOS CONTENT (ASB)	3	2
0 =None <1% 1 =1% to 10% Asbestos 2 =11% to 50% Asbestos 3 =51% to 100% Asbestos		
Exposure Value	137.25	85.5
Rating	1	1

Asbestos Potential Exposure and Priori	i
Asset Number	SP 7077
	Front furnance
Exposure Area	
Asbestos Containing Material	Gray heater block
Sample Number	CHE-SP7077-170821-046 thru 048
Size	NA
Quantity	8 SF
MATERIAL CONDITION (MC)	2
 0 =No damage, excellent condition 1 =Very minor damage, no visible debris 2 =Damage is evident, small area 3 =Damage is easily seen, some debris 4 =Damage is widespread, debris is common 5 =Most or all material is damaged, hanging, and / or found as debris throughout the area 	
BUILDING AGE (BA)	1
1 =>30 years old 0 =15 - 30 years old -1 =<15 years old	
Pipe Covering (PC) 1 =MAG/CAL Silicate -1 =Air Cell / paper	NA
Ceiling Plasters or Fireproofing (CP)	NA
-1 =Cementitious (Monocoat) 0 =Standard 1 ="Cotton Candy" texture	
WATER DAMAGE (WD)	0
 0 =No water damage 1 =Small amount of damage can be seen; damage is localized rather than widespread 	
2 =Good deal of water damage; widespread	
ROOF CHARACTERISTICS (RC) -0.5 =Sloped or Hipped -0.5 =Metal or Concrete	-0.5
0.5 =Flat or Built-up	4
EXPOSED SURFACE AREA (ESA) 0 =Material behind a permanent enclosure 2 =Material behind a lay-in ceiling or in open tunnel 4 =Material is exposed	4
ACCESSIBILITY (AC)	4
0 =Totally inaccessible 1 =Can only reach with hands, ie. pipe chase 2 =An open tunnel or above a drop ceiling 3 =Exposed overall, but can't reach, ie. >10' high 4 =Material is out in the open and <10' high	
ACTIVITY AND MOVEMENT (A/M)	2
0 =No occupants enter the area 1 =Area is accessed infrequently 2 =Area is accessed frequently	
WORK ENVIRONMENT (WE)	0.5
-0.5 =Sedentary 0.5 =Non-sedentary	
SOUND AND MECHANICAL VIBRATIONS (SMV) 0.5 =Frequent or Constant -0.5 =No recognizable vibration	0.5
AIR - PLENUM / AIR STREAM (AP) 0 =No air plenum or air flow 1 =Air plenum or air flow exists	1
VELOCITY (if Air Plenum = 1) (VEL) 0.25 =Recognizable by human feeling	-0.25
-0.25 =Non-recognizable by human feeling FLOW (if Air Plenum = 1) (FL)	NA
-0.25 =Constant, steady stream 0.25 =Impact, gusty flow	
FRIABILITY (F) 1 =Very hard to crumble under hand pressure 2 = Will crumble under a little hand pressure 3 =Extremely easy to crumble under light pressure	3
ASBESTOS CONTENT (ASB)	1
0 =None <1% 1 =1% to 10% Asbestos 2 =11% to 50% Asbestos	
3 =51% to 100% Asbestos	
Exposure Value	42.75
Rating	2



www.esasite.com

Specializing in environmental services and demolition

September 13th, 2021

Union Pacific Railroad Asbestos Program c/o GHD 3807 South 148th Street Omaha, NE 68144

RE: WY, Cheyenne, Rollingstock SP 7078, Requested NESHAP Inspection Earth Services & Abatement Project Number: 215WY001

To Whom It May Concern,

Please find our NESHAP report for the above-mentioned requested inspection. Earth Services & Abatement's Joseph Kulm inspected UPRR railcar SP 7078 for suspect asbestos-, lead-, and PCB-containing materials. The inspection work took place on August 18th, 2021.

No previous reports were provided for review prior to inspection.

Refer to the report for a summary of this inspection, including inspection/lab results, inspection photographs, and schematics.

If you have any questions or need anything else for this project, please do not hesitate to contact us.

Conducted by,

Jospeh Kulm Inspector Earth Services & Abatement

Reviewed by,

best Syplie

Robert Szynskie Program Director Earth Services & Abatement Robert.szynskie@esasite.com Cell – 720-206-9238

	Rolling Stock	Asbe	estos Inspe	ection	Report		
				Inspec	ction Start Date	08/18/202	21
BUILDING AMERICA Inspection Type				Inspec	ction End Date	08/18/202	21
X Initial Inspection	Reinspection	X NES	SHAP Inspection	Repor	t Date	09/08/202	21
Inspection Comp	•						
Company Earth S	ervices & Abatement		License No.	16608			
Address 6700 E 50	OTH AVE		City Comm	nerce City			
			State CO	Z	Zip 80022		
Inspector Informa	ation						
First Name Joseph		Las	t Name Kulm	l			
License Type AHE	ERA License No. C	C6LEMQ	A0R3U	Lice	nse State		
Asset Information							
Rolling Stock Type	Railcar						
Rolling Stock No	SP 7078		Car Name	SP 7078	8		•
Yard Name	Cheyenne		Subdivision	Unknow	'n		•
Address	East Union Pacific Ave.		Mile Post	Unknow	'n		
City	Cheyenne		Latitude	41.1339)69°		•
State	WY		Longitude	-104.80	3513°		•
Zip Code	82001						
Key Contacts							
Name	Phone Number	Comp	any		Role/Responsibilit	y	
Kulm,Joseph	303-991-1280	Earth	Services & Abate	ement	Inspector		
Szynskie,Robert	303-991-1280	Earth	Services & Abate	ement	Program Director		
Dickens,Edgar	307-214-3545	UPRR			Local Contact		
was limited by the u	ere made to conduct a comp se of hand-tools and some a ble. If additional suspect mat	additiona	al suspect materia	als may be	e present in areas n	ot	

		Rolling Sto	ck Asbestos Inspect	ion Repo		eport Date Stock Type	09/08/2021 Railcar	
						SP 7078		
						0		
ASDE ACM Pr	estos Results	Total Number o	f ACM Components. ¹ 10					
-	umber of Materials Containin		0		_			
Notes		lg <= 170 Asbestos.						
de		he brown insulation ident	descriptive than that on the chain- ified in samples CHE-SP7078-180					
	Asbestos Sam	ples						
Sample Date	Sample ID	Description	Location	Asbestos Result ²	ACM Category	Friable	Quantity	Modified Algorithm Number
8/18/2021	CHE-SP7078-180821-00 1 thru 003	Black/gray sealant	Roof seams and penetrations	8%, Chrysotile	Category II	No	260 LF	4
8/18/2021	CHE-SP7078-180821-00 4 thru 006	White sealant	Roof patches	Not Detected	N/A	N/A	60 sq. ft.	N/A
8/18/2021	CHE-SP7078-180821-00 7 thru 009	White/brown paper insulation	Walls, floors (base layer) and ceilings throughout	15%, Chrysotile	N/A	Yes	3900 sq. ft.	1
8/18/2021	CHE-SP7078-180821-01 0 thru 012	Red vinyl floor and brown mesh tape	Kitchen floor	Not Detected	N/A	N/A	100 sq. ft.	N/A
8/18/2021	CHE-SP7078-180821-01 3 thru 015	Gray 9"x9" floor tile and gray leveling compound	Kitchen floor, second hightest layer	6%, Chrysotile	N/A	Yes	100 sq. ft.	2
	CHE-SP7078-180821-01	Yellow mastic associated with gray 9"x9" floor tile	Kitchen floor, second hightest laver	Not Detected	N/A	N/A	100 sq. ft.	N/A

1 "ACM Present" is defined as material with >1% asbestos, except in California, where Asbestos-Containing Construction Material (ACCM) is defined as >0.1% asbestos.

2 For samples collected in sets, only the highest result is reported. Some of the collected samples may not have been analyzed. See the attached laboratory report for additional details.

3 "Lead Present" and "Positive" is defined as paint with $\geq 0.5\%$ lead.

4 "PCBs Present" and "Positive" is defined as caulk with \geq 50 ppm PCBs.



Rolling Stock Asbestos Inspection Report

Report Date 09/08/2021

Rolling Stock Type Railcar

Rolling Stock No SP 7078

BUILDING AMERICA

Asbestos Samples

Sample Date	Sample ID	Description	Location	Asbestos Result ²	ACM Category	Friable	Quantity	Modified Algorithm Number
08/18/2021	CHE-SP7078-180821-01 6 thru 018	Red cementous flooring	Interior floor throughout, second lowest layer in Kitchen	1.75%, Chrysotile	Category I	No	810 sq. ft.	4
08/18/2021	CHE-SP7078-180821-01 9 thru 021	White fiberboard	Interior electric and boiler components	65%, Chrysotile	Category I	No	20 sq. ft.	2
08/18/2021	CHE-SP7078-180821-02 2 thru 024	Red/Black wire coatings	Interior walls on wires	Not Detected	N/A	N/A	100 LF	N/A
08/18/2021	CHE-SP7078-180821-02 5 thru 027	Black fiberboard	Interior electrical area, behind components	6%, Chrysotile	N/A	Yes	6 sq. ft.	3
08/18/2021	CHE-SP7078-180821-02 8 thru 030	Black bakelite	Breaker board	15%, Chrysotile	N/A	Yes	2 sq. ft.	2
08/18/2021	CHE-SP7078-180821-03 1 thru 033	Gasket (layered silver coating and black felt)	Breaker board	Not Detected	N/A	N/A	1 LF	N/A
08/18/2021	CHE-SP7078-180821-03 4 thru 036	Silver coating	Interior windows	Not Detected	N/A	N/A	240 sq. ft.	N/A
08/18/2021	CHE-SP7078-180821-03 7 thru 039	Masonite board (layered compound, mastic and fiberboard)	Interior duct facade	Not Detected	N/A	N/A	160 sq. ft.	N/A
08/18/2021	CHE-SP7078-180821-04 0 thru 042	Beige pipe wrap	Interior A/C and gas lines	55%, Chrysotile	N/A	Yes	20 LF	1
08/18/2021	CHE-SP7078-180821-04 3 thru 045	Red/black vinyl flooring	Kitchen floor	1.92%, Chrysotile	N/A	Yes	100 sq. ft.	2

1 "ACM Present" is defined as material with >1% asbestos, except in California, where Asbestos-Containing Construction Material (ACCM) is defined as >0.1% asbestos.

2 For samples collected in sets, only the highest result is reported. Some of the collected samples may not have been analyzed. See the attached laboratory report for additional details.

3 "Lead Present" and "Positive" is defined as paint with $\ge 0.5\%$ lead.

Δ "PCBs Present" and "Positive" is defined as caulk with ≥50 ppm PCBs.

		Rolling Sto	ock Asbestos Inspect	ion Rep	ort R	eport Date	09/08/20	21
U					Rolling	Stock Type	Railcar	
BUILDING					Rollin	g Stock No	SP 7078	
	Asbestos Sam	ples						
Sample Date	Sample ID	Description	Location	Asbestos Result ²	ACM Category	Friable	Quantity	Modified Algorithm Number
08/18/2021	CHE-SP7078-180821-04 6 thru 048	Vibration dampener and mastic	Undercarriage, generator	Not Detected	N/A	N/A	4 sq. ft.	N/A
08/18/2021	CHE-SP7078-180821-04 9 thru 051	White pipe wrap	Undercarriage	15%, Chrysotile	N/A	Yes	80 LF	2
Notes		Samples						
	nple	mple ID	Description		Location		.ead esult	Condition
08/18/20	21 CHE-SP7078-18	30821-001L	Black	Roof		0.12	%	Poor
08/18/20	21 CHE-SP7078-18	30821-002L	Beige		walls of dinni alls, bunkroor stroom	0	%	Poor
08/18/20	21 CHE-SP7078-18	30821-003L	Red	Interior throug		0.7 %	, D	Poor
08/18/20	CHE-SP7078-18	30821-004L	Yellow	Exterio	r	4.1 %	, D	Fair
08/18/20	21 CHE-SP7078-18	30821-005L	Light red	Exterio	r	3.2 %	, D	Fair
08/18/20	21 CHE-SP7078-18	30821-006L	White	Interior	Kitchen	0.73	%	Poor

1 "ACM Present" is defined as material with >1% asbestos, except in California, where Asbestos-Containing Construction Material (ACCM) is defined as >0.1% asbestos.

2 For samples collected in sets, only the highest result is reported. Some of the collected samples may not have been analyzed. See the attached laboratory report for additional details.

3 "Lead Present" and "Positive" is defined as paint with $\ge 0.5\%$ lead.

4 "PCBs Present" and "Positive" is defined as caulk with \geq 50 ppm PCBs.

BUILDING AMERICA** POlychlorinated Biphenyls PCBs Present ⁴ No Suspect M Notes	Results laterials Total Number of Positive Components. ⁴	Rolling Stock Type	09/08/2021 Railcar SP 7078]
Mold Results Suspect Mold Present Notes	No]
	sbestos, except in California, where Asbestos-Containing Construction Material (ACCM) is def sult is reported. Some of the collected samples may not have been analyzed. See the attache with \geq 0.5% lead.		ional details.	



Rolling Stock Asbestos Inspection Report Asset Photos Report Date 09/08/2021

BUILDING AMERICA



Railcar ID marker



View of exterior, looking south



View of car interior

Rolling Stock Type Railcar

Rolling Stock No SP 7078



View of exterior, looking southeast



View of car interior



Rolling Stock Asbestos Inspection Report Sample Photos Report Date 09/08/2021

BUILDING AMERICA**



CHE-SP7078-180821-001 thru 003, 8% Asbestos, Black/gray sealant



CHE-SP7078-180821-004 thru 006, Asbestos Not Detected, White sealant



CHE-SP7078-180821-007 thru 009, 15% Asbestos, White/brown paper insulation

Rolling Stock Type

Railcar

Rolling Stock No SP 7078



CHE-SP7078-180821-001 thru 003, 8% Asbestos, Black/gray sealant



CHE-SP7078-180821-004 thru 006, Asbestos Not Detected, White sealant



CHE-SP7078-180821-007 thru 009, 15% Asbestos, White/brown paper insulation



Rolling Stock Asbestos Inspection Report Sample Photos Report Date 09/08/2021

BUILDING AMERICA**



CHE-SP7078-180821-010 thru 012, Asbestos Not Detected, Red vinyl floor and brown mesh tape



CHE-SP7078-180821-013 thru 015, 6% Asbestos, Gray 9"x9" floor tile and gray leveling compound



CHE-SP7078-180821-013 thru 015, Asbestos Not Detected, Yellow mastic associated with gray 9"x9" floor tile

Rolling Stock Type

Railcar

Rolling Stock No SP 7078

CHE-SP7078-180821-010 thru 012, Asbestos Not Detected, Red vinyl floor and brown mesh tape



CHE-SP7078-180821-013 thru 015, 6% Asbestos, Gray 9"x9" floor tile and gray leveling compound



CHE-SP7078-180821-013 thru 015, Asbestos Not Detected, Yellow mastic associated with gray 9"x9" floor tile



Rolling Stock Asbestos Inspection Report Sample Photos Report Date 09/08/2021

BUILDING AMERICA**



CHE-SP7078-180821-016 thru 018, 1.75% Asbestos, Red cementous flooring



CHE-SP7078-180821-019 thru 021, 65% Asbestos, White fiberboard



CHE-SP7078-180821-022 thru 024, Asbestos Not Detected, Red/Black wire coatings

Rolling Stock Type Railcar Rolling Stock No SP 7078



CHE-SP7078-180821-016 thru 018, 1.75% Asbestos, Red cementous flooring



CHE-SP7078-180821-019 thru 021, 65% Asbestos, White fiberboard



CHE-SP7078-180821-022 thru 024, Asbestos Not Detected, Red/Black wire coatings



Rolling Stock Asbestos Inspection Report Sample Photos Report Date 09/08/2021

BUILDING AMERICA**



CHE-SP7078-180821-025 thru 027, 6% Asbestos, Black fiberboard



CHE-SP7078-180821-028 thru 030, 15% Asbestos, Black bakelite



CHE-SP7078-180821-031 thru 033, Asbestos Not Detected, Gasket (layered silver coating and black felt)

Rolling Stock Type Railcar

Rolling Stock No SP 7078



CHE-SP7078-180821-025 thru 027, 6% Asbestos, Black fiberboard



CHE-SP7078-180821-028 thru 030, 15% Asbestos, Black bakelite



CHE-SP7078-180821-031 thru 033, Asbestos Not Detected, Gasket (layered silver coating and black felt)



Rolling Stock Asbestos Inspection Report Sample Photos Report Date 09/08/2021

BUILDING AMERICA**



CHE-SP7078-180821-034 thru 036, Asbestos Not Detected, Silver coating



CHE-SP7078-180821-037 thru 039, Asbestos Not Detected, Masonite board (layered compound, mastic and fiberboard)



CHE-SP7078-180821-040 thru 042, 55% Asbestos, Beige pipe wrap

Rolling Stock Type

Railcar

Rolling Stock No SP 7078



CHE-SP7078-180821-034 thru 036, Asbestos Not Detected, Silver coating



CHE-SP7078-180821-037 thru 039, Asbestos Not Detected, Masonite board (layered compound, mastic and fiberboard)



CHE-SP7078-180821-040 thru 042, 55% Asbestos, Beige pipe wrap



Rolling Stock Asbestos Inspection Report Sample Photos Report Date 09/08/2021

BUILDING AMERICA**



CHE-SP7078-180821-043 thru 045, 1.92% Asbestos, Red/black vinyl flooring



CHE-SP7078-180821-046 thru 048, Asbestos Not Detected, Vibration dampener and mastic



CHE-SP7078-180821-049 thru 051, 15% Asbestos, White pipe wrap

Rolling Stock Type Railcar

Rolling Stock No SP 7078



CHE-SP7078-180821-043 thru 045, 1.92% Asbestos, Red/black vinyl flooring



CHE-SP7078-180821-046 thru 048, Asbestos Not Detected, Vibration dampener and mastic



CHE-SP7078-180821-049 thru 051, 15% Asbestos, White pipe wrap



Rolling Stock Asbestos Inspection Report Sample Photos Report Date 09/08/2021

BUILDING AMERICA"



CHE-SP7078-180821-001L, 0.12% Lead, Black



CHE-SP7078-180821-002L, 0.13% Lead, Beige



CHE-SP7078-180821-003L, 0.7% Lead, Red

Railcar

Rolling Stock Type

Rolling Stock No SP 7078



CHE-SP7078-180821-001L, 0.12% Lead, Black



CHE-SP7078-180821-002L, 0.13% Lead, Beige



CHE-SP7078-180821-003L, 0.7% Lead, Red



Rolling Stock Asbestos Inspection Report Sample Photos Report Date 09/08/2021

BUILDING AMERICA"



CHE-SP7078-180821-004L, 4.1% Lead, Yellow



CHE-SP7078-180821-005L, 3.2% Lead, Light red



CHE-SP7078-180821-006L, 0.73% Lead, White

Railcar

Rolling Stock Type Rolling Stock No SP 7078

CHE-SP7078-180821-004L, 4.1% Lead, Yellow



CHE-SP7078-180821-005L, 3.2% Lead, Light red

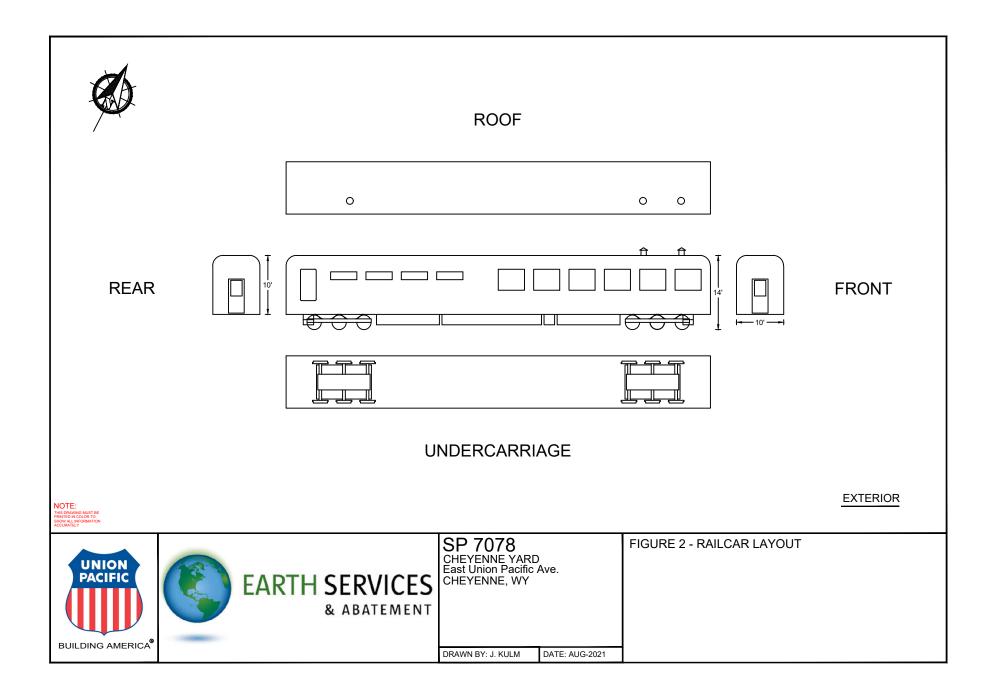


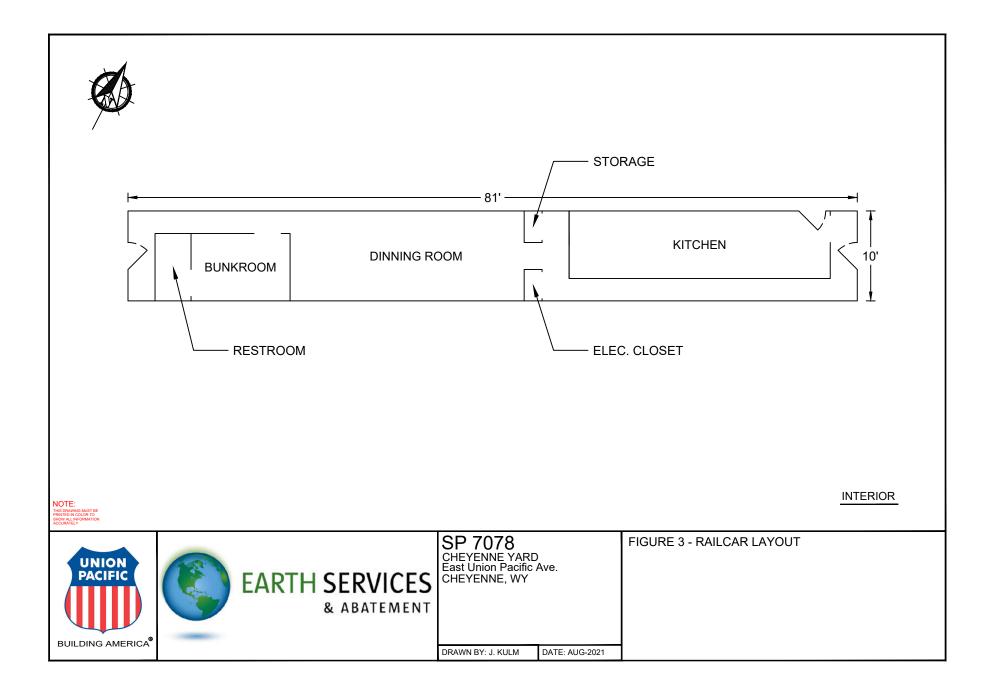
CHE-SP7078-180821-006L, 0.73% Lead, White

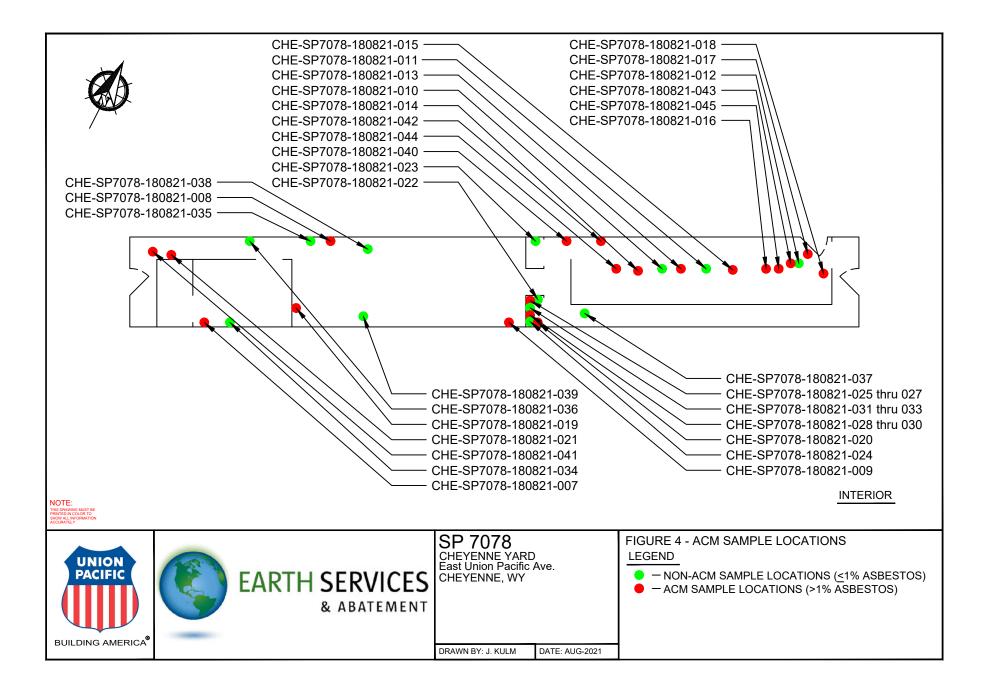
Appendix 1 - Figures

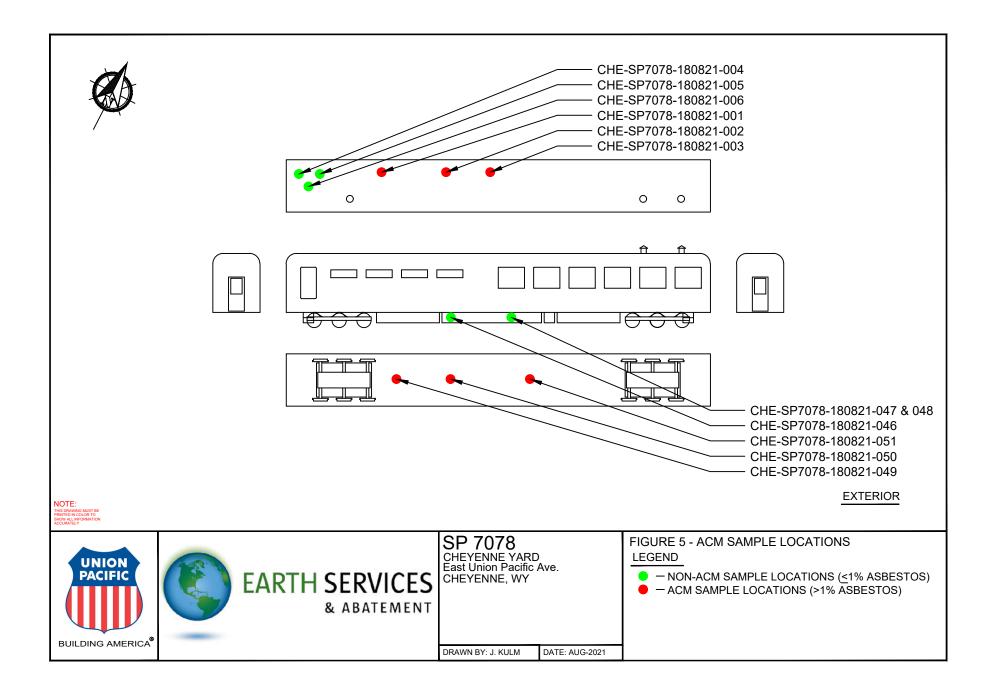
Report Date09/08/2021Rolling Stock TypeRailcarRolling Stock NoSP 7078

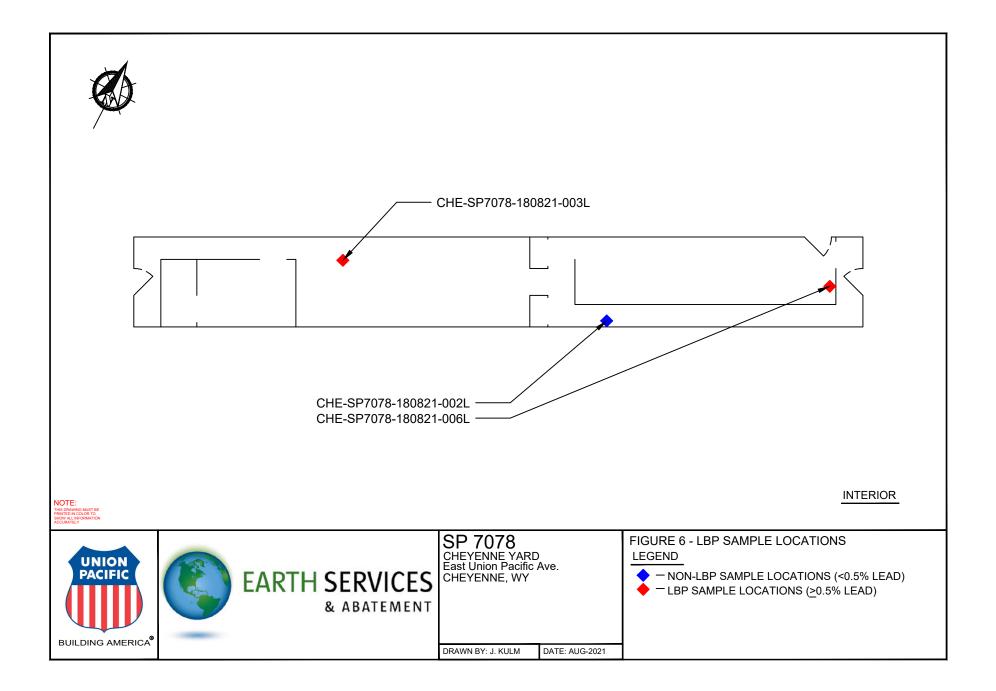


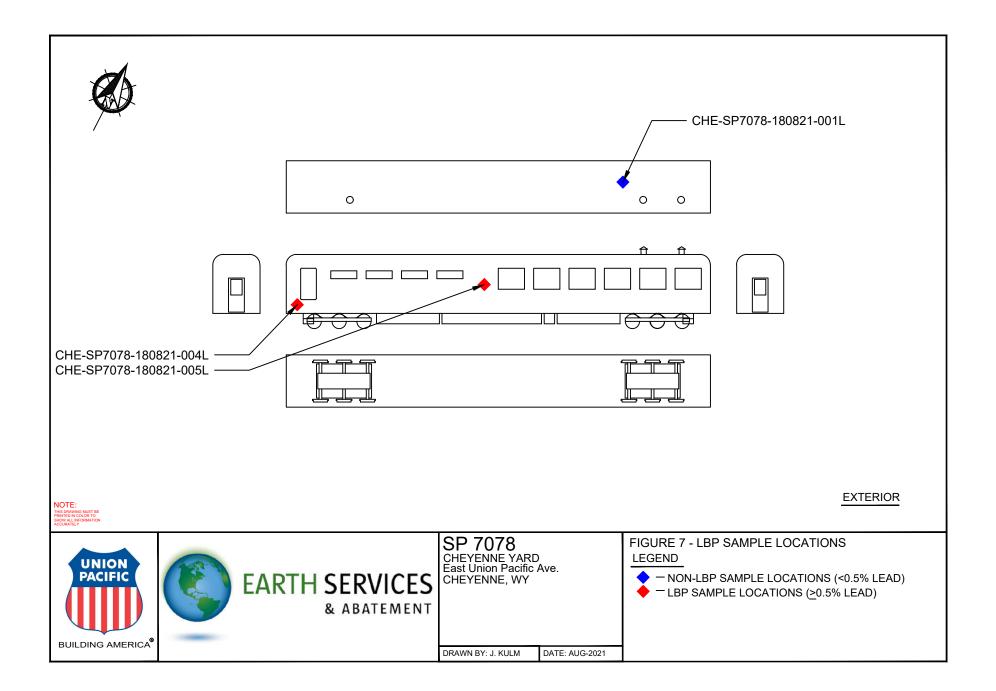


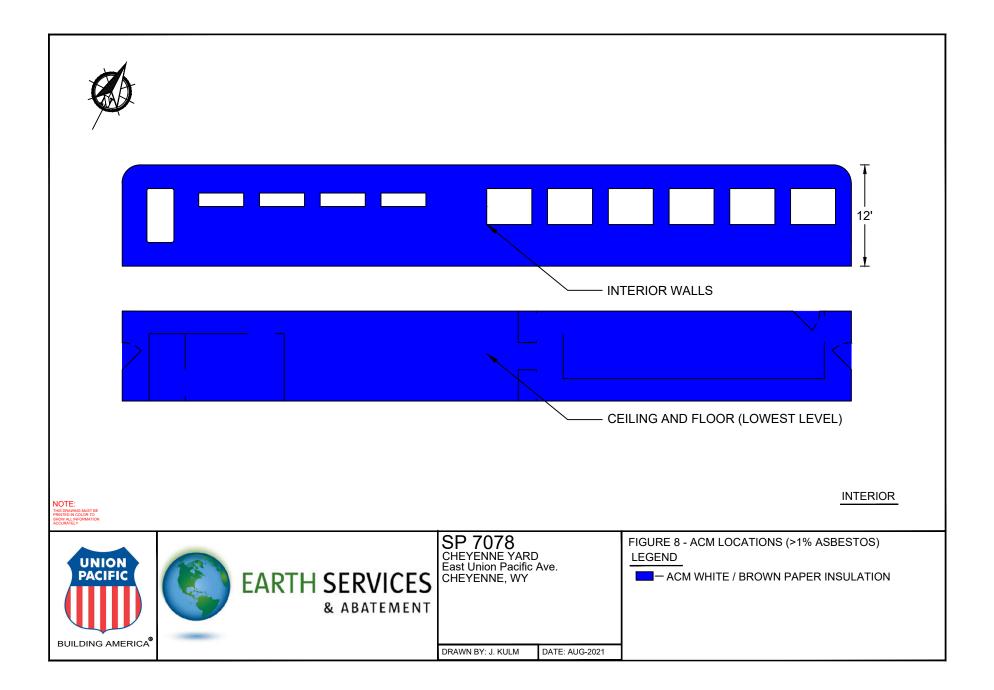


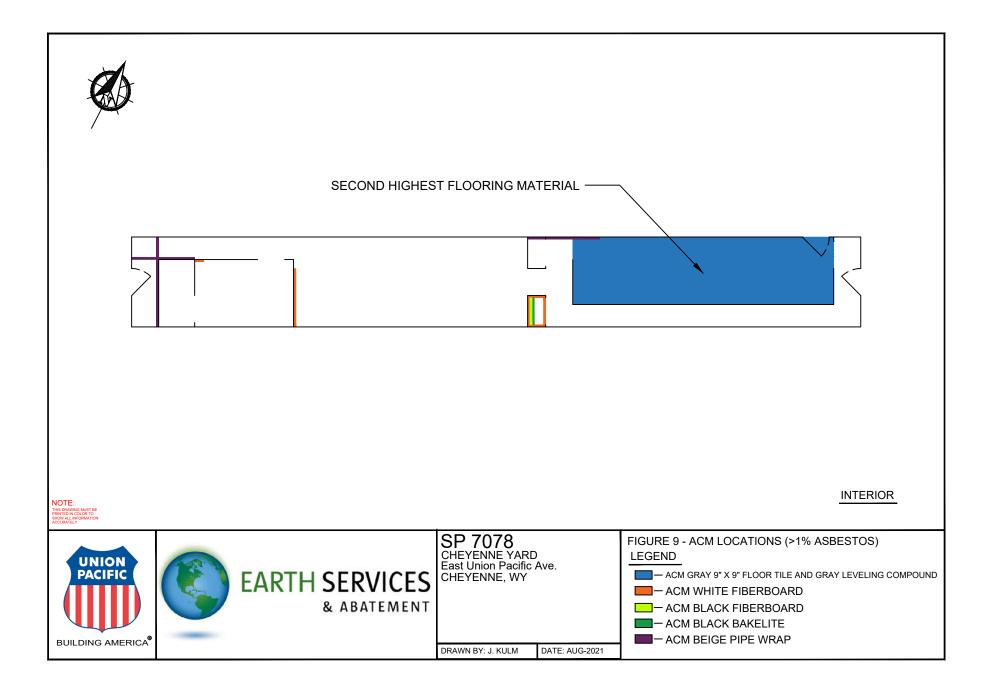


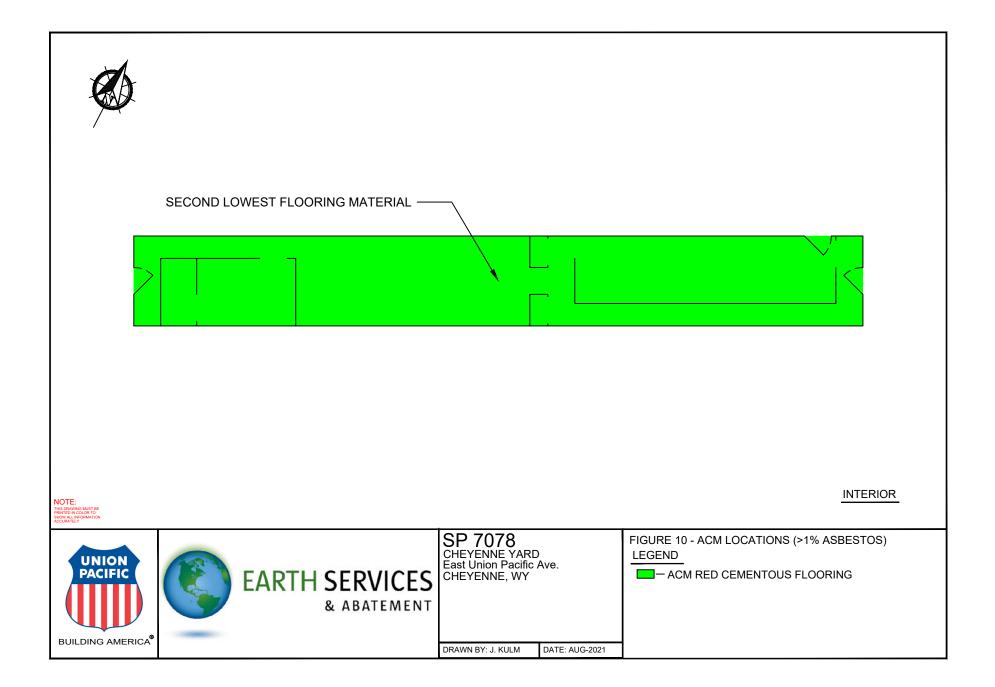


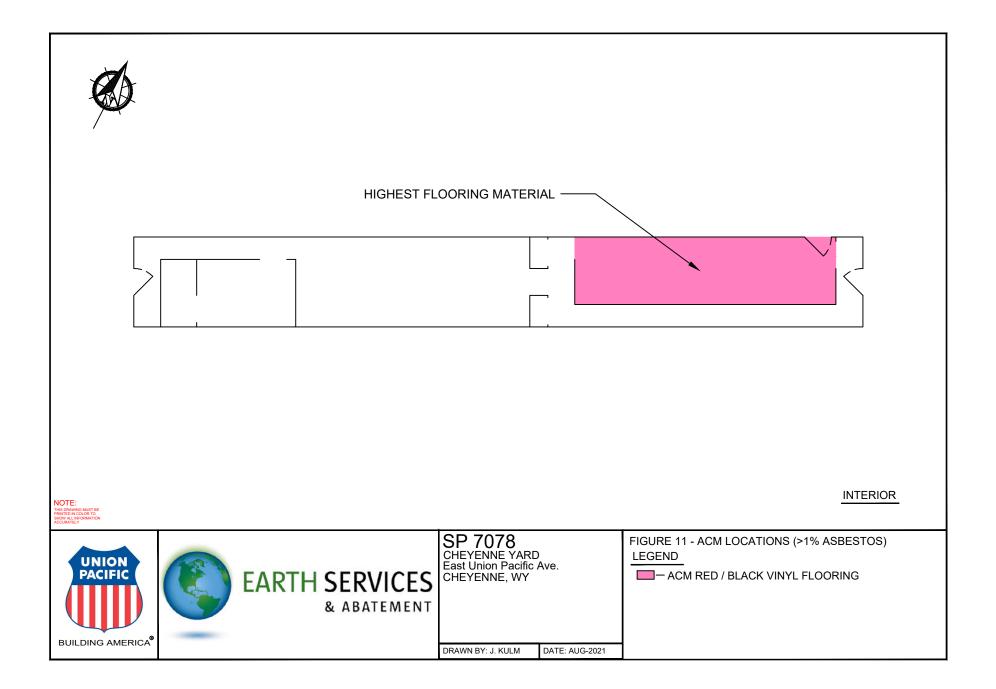


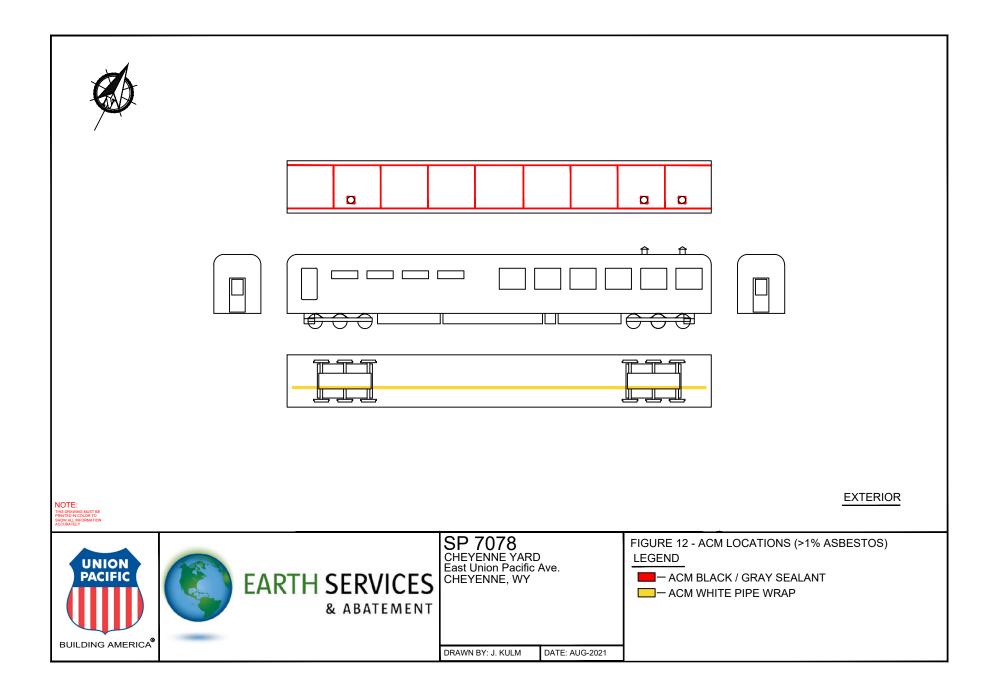












Appendix 2 - Lab Reports and Chain of Custody Receipts

Report Date	09/08/2021
Rolling Stock Type	Railcar
Rolling Stock No	SP 7078

3113 Red Bluff Road, Pasadena, TX 77503 Phone: (713) 290-0223 - Fax: (713) 290-0248 *J3Resources.com*



Bulk Asbestos Fiber Analysis by Polarized Light Microscopy (PLM) EPA 600/M4-82-020; 600/R-93/116 - Point Count Method

Joseph Kulm Earth Services & Abatement, Inc. 6700 E. 50th Avenue Commerce City CO 80022
 Order #:
 JH21130143

 Project #:
 215WY001

 Date Received:
 25-Aug-2021

 Date Analyzed:
 29-Aug-2021

 Date Reported:
 30-Aug-2021

SP 7078 - WY Rollingstock Inspections-REVISED

Sample ID #	Sample Description	Asbestos Constituents	5	Non-Asbestos Constituents	
CHE-SP7078- 180821-001	Roof Sealant, Gray/ Black, Homogeneou	us Chrysotile	8%	Non-Fibrous Material	92%
CHE-SP7078- 180821-002	Roof Sealant, *Not analyzed per client request				
CHE-SP7078- 180821-003	Roof Sealant, *Not analyzed per client request				
CHE-SP7078- 180821-004	Roof Sealant, White/ Black, Homogeneous	None Detected		Non-Fibrous Material	100%
CHE-SP7078- 180821-005	Roof Sealant, White/ Black, Homogeneous	None Detected		Non-Fibrous Material	100%
CHE-SP7078- 180821-006	Roof Sealant, White/ Black, Homogeneous	None Detected		Non-Fibrous Material	100%
CHE-SP7078- 180821-007	LAYER 1 Paper Wrap, White/ Brown, Homogeneous	Chrysotile	15%	Cellulose Fiber	85%
	LAYER 2 Insulation, Brown, Homogeneous	None Detected		Synthetic Fiber	100%
CHE-SP7078- 180821-008	LAYER 1 Paper Wrap, *Not analyzed per client request				
	LAYER 2 Insulation, Brown, Homogeneous	None Detected		Synthetic Fiber	100%
CHE-SP7078- 180821-009	LAYER 1 Paper Wrap, *Not analyzed per client request				
	LAYER 2 Insulation, Brown, Homogeneous	None Detected		Synthetic Fiber	100%
	<u>Revision:</u>	ampla number			
	Corrected	l sample number.		8m/m	Ĺ
Taylor Smylie	Analyst			Scott Ward, Ph.D.	Lab Director

These results apply to the sample(s) as received. This report is for the exclusive use of the addressed client and shall not be reproduced except in full, without written approval by Eurofins J3 Resources, Inc. (EJ3). Samples are analyzed according to the methods listed above and are subject to the inherent limitations of PLM and interference of matrix components. Reporting limit for the above method is a function of the quantity of sample analyzed, matrix interference, sample preparation, fiber size, and distribution. Asbestos may be detected in concentrations of <1% by area if sufficient material is analyzed. EJ3 recommends TEM confirmation of soils, verniculite and non-friable organically bound materials (NOB) reported as None Detected or < 1% Asbestos by PLM. All samples received in good condition unless otherwise noted. This report shall not be used to claim product approval, certification, or endorsement by NVLAP, NIST, or any agency of the federal government.

3113 Red Bluff Road, Pasadena, TX 77503 Phone: (713) 290-0223 - Fax: (713) 290-0248 *J3Resources.com*





Bulk Asbestos Fiber Analysis by Polarized Light Microscopy (PLM) EPA 600/M4-82-020; 600/R-93/116 - Point Count Method

Joseph Kulm Earth Services & Abatement, Inc. 6700 E. 50th Avenue Commerce City CO 80022
 Order #:
 JH21130143

 Project #:
 215WY001

 Date Received:
 25-Aug-2021

 Date Analyzed:
 29-Aug-2021

 Date Reported:
 30-Aug-2021

SP 7078 - WY Rollingstock Inspections-REVISED

Sample ID #	Sample Description	Asbestos Constituent	s	Non-Asbestos Constituents	
CHE-SP7078- 180821-010	LAYER 1 Flooring, Red/ Brown, Homogeneous	None Detected		Non-Fibrous Material	100%
	LAYER 2 Mesh Tape, Brown, Homogeneous	None Detected		Synthetic Fiber	100%
CHE-SP7078- 180821-011	LAYER 1 Flooring, Red/ Brown, Homogeneous	None Detected		Non-Fibrous Material	100%
	LAYER 2 Mesh Tape, Brown, Homogeneous	None Detected		Synthetic Fiber	100%
CHE-SP7078- 180821-012	LAYER 1 Flooring, Red/ Brown, Homogeneous	None Detected		Non-Fibrous Material	100%
	LAYER 2 Mesh Tape, Brown, Homogeneous	None Detected		Synthetic Fiber	100%
CHE-SP7078- 180821-013	LAYER 1 Floor Tile, Gray, Homogeneous	Chrysotile	6%	Non-Fibrous Material	94%
	LAYER 2 Mastic, Yellow, Homogeneous	None Detected		Non-Fibrous Material	100%
	LAYER 3 Float, Gray, Homogeneous	Chrysotile	6%	Non-Fibrous Material	94%
CHE-SP7078- 180821-014	LAYER 1 Floor Tile, *Not analyzed per client request				
	LAYER 2 Mastic, Yellow, Homogeneous	None Detected		Non-Fibrous Material	100%
	LAYER 3 Float, *Not analyzed per client request				

Scott Ward, Ph.D. Lab Director

TDSHS License: 30-0457

Page 2 of 7

Ana

Taylor Smylie

Analyst

NVLAP Lab Code: 600120-0

These results apply to the sample(s) as received. This report is for the exclusive use of the addressed client and shall not be reproduced except in full, without written approval by Eurofins J3 Resources, Inc. (EJ3). Samples are analyzed according to the methods listed above and are subject to the inherent limitations of PLM and interference of matrix components. Reporting limit for the above method is a function of the quantity of sample analyzed, matrix interference, sample preparation, fiber size, and distribution. Asbestos may be detected in concentrations of <1% by area if sufficient material is analyzed. EJ3 recommends TEM confirmation of soils, verniculite and non-friable organically bound materials (NOB) reported as None Detected or < 1% Asbestos by PLM. All samples received in good condition unless otherwise noted. This report shall not be used to claim product approval, certification, or endorsement by NVLAP, NIST, or any agency of the federal government.

AIHA-LAP, LLC Lab ID: 157714

3113 Red Bluff Road, Pasadena, TX 77503 Phone: (713) 290-0223 - Fax: (713) 290-0248 J3Resources.com



Bulk Asbestos Fiber Analysis by Polarized Light Microscopy (PLM) EPA 600/M4-82-020; 600/R-93/116 - Point Count Method

Joseph Kulm Earth Services & Abatement, Inc. 6700 E. 50th Avenue Commerce City CO 80022

Taylor Smylie

Analyst

NVLAP Lab Code: 600120-0

Order #: JH21130143 Project #: 215WY001 25-Aug-2021 Date Received: 29-Aug-2021 Date Analyzed: **Date Reported:** 30-Aug-2021

SP 7078 - WY Rollingstock Inspections-REVISED

Sample ID #	Sample Description	, *Not analyzed per client None Detected ellow, Homogeneous		Non-Asbestos Constituents	
CHE-SP7078- 180821-015	LAYER 1 Floor Tile, *Not analyzed per client request LAYER 2 Mastic, Yellow, Homogeneous LAYER 3			Non-Fibrous Material	100%
	Float, *Not analyzed per client request				
CHE-SP7078- 180821-016 400 pt. POINT COUNT	Flooring, Red, Homogeneous Original PLM Result: 2% Chrysotile	Chrysotile	1.25%	Non-Fibrous Material	98.75%
CHE-SP7078- 180821-017 400 pt. POINT COUNT	Flooring, Red, Homogeneous Original PLM Result: 2% Chrysotile	Chrysotile	1.75%	Non-Fibrous Material	98.25%
CHE-SP7078- 180821-018	Flooring, *Not analyzed per client reques	t			
CHE-SP7078- 180821-019	Fiberboard, White/ Red, Homogeneous	Chrysotile	20%	Non-Fibrous Material	80%
CHE-SP7078- 180821-020	Fiberboard, *Not analyzed per client request				
CHE-SP7078- 180821-022	Wrap, Red/ Black, Homogeneous	None Detected		Synthetic Fiber Non-Fibrous Material	15% 85%
CHE-SP7078- 180821-023	Wrap, Red/ Black, Homogeneous	None Detected		Synthetic Fiber Non-Fibrous Material	15% 85%
CHE-SP7078- 180821-024	Wrap, Red/ Black, Homogeneous	None Detected		Synthetic Fiber Non-Fibrous Material	15% 85%

Scott Ward, Ph.D. Lab Director

TDSHS License: 30-0457

These results apply to the sample(s) as received. This report is for the exclusive use of the addressed client and shall not be reproduced except in full, without written approval by Eurofins J3 Resources, Inc. (EJ3). Samples are analyzed according to the methods listed above and are subject to the inherent limitations of PLM and interference of matrix components. Reporting limit for the above method is a function of the quantity of sample analyzed, matrix interference, sample preparation, fiber size, and distribution. Asbestos may be detected in concentrations of <1% by area if sufficient material is analyzed. EJ3 recommends TEM confirmation of soils, verniculite and non-friable organically bound materials (NOB) reported as None Detected or < 1% Asbestos by PLM. All samples received in good condition unless otherwise noted. This report shall not be used to claim product approval, certification, or endorsement by NVLAP, NIST, or any agency of the federal government. Page 3 of 7 AIHA-LAP, LLC Lab ID: 157714

3113 Red Bluff Road, Pasadena, TX 77503 Phone: (713) 290-0223 - Fax: (713) 290-0248 *J3Resources.com*



Bulk Asbestos Fiber Analysis by Polarized Light Microscopy (PLM) EPA 600/M4-82-020; 600/R-93/116 - Point Count Method

Joseph Kulm Earth Services & Abatement, Inc. 6700 E. 50th Avenue Commerce City CO 80022
 Order #:
 JH21130143

 Project #:
 215WY001

 Date Received:
 25-Aug-2021

 Date Analyzed:
 29-Aug-2021

 Date Reported:
 30-Aug-2021

SP 7078 - WY Rollingstock Inspections-REVISED

Sample ID #	Sample Description	Asbestos Constituents	6	Non-Asbestos Constituents	
CHE-SP7078- 180821-025	Fiberboard, Black, Homogeneous	Chrysotile	6%	Non-Fibrous Material	94%
CHE-SP7078- 180821-026	Fiberboard, *Not analyzed per client request				
CHE-SP7078- 180821-027	Fiberboard, *Not analyzed per client request				
CHE-SP7078- 180821-028	Cementitious Material, Black, Homogeneous	Chrysotile	15%	Non-Fibrous Material	85%
CHE-SP7078- 180821-029	Cementitious Material, *Not analyzed per client request				
CHE-SP7078- 180821-030	Cementitious Material, *Not analyzed per client request				
CHE-SP7078- 180821-031	LAYER 1 Coating, Silver, Homogeneous	None Detected		Non-Fibrous Material	100%
	LAYER 2 Felt, Black, Homogeneous	None Detected		Synthetic Fiber Non-Fibrous Material	15% 85%
CHE-SP7078- 180821-032	LAYER 1 Coating, Silver, Homogeneous	None Detected		Non-Fibrous Material	100%
	LAYER 2 Felt, Black, Homogeneous	None Detected		Synthetic Fiber Non-Fibrous Material	15% 85%
CHE-SP7078- 180821-033	LAYER 1 Coating, Silver, Homogeneous	None Detected		Non-Fibrous Material	100%
	LAYER 2 Felt, Black, Homogeneous	None Detected		Synthetic Fiber Non-Fibrous Material	15% 85%

Page 4 of 7

.

Taylor Smylie

Analyst

NVLAP Lab Code: 600120-0

Scott Ward, Ph.D. Lab Director

TDSHS License: 30-0457

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AIHA-LAP, LLC Lab ID: 157714

3113 Red Bluff Road, Pasadena, TX 77503 Phone: (713) 290-0223 - Fax: (713) 290-0248 J3Resources.com



Bulk Asbestos Fiber Analysis by Polarized Light Microscopy (PLM) EPA 600/M4-82-020; 600/R-93/116 - Point Count Method

Joseph Kulm Earth Services & Abatement, Inc. 6700 E. 50th Avenue Commerce City CO 80022

Order #: JH21130143 Project #: 215WY001 25-Aug-2021 Date Received: 29-Aug-2021 Date Analyzed: **Date Reported:** 30-Aug-2021

SP 7078 - WY Rollingstock Inspections-REVISED

Sample ID #	Sample Description	Asbestos Constituents	Non-Asbestos Constituents	
CHE-SP7078- 180821-034	Coating, Silver/ Brown, Homogeneous	None Detected	Synthetic Fiber Non-Fibrous Material	15% 85%
CHE-SP7078- 180821-035	Coating, Silver/ Brown, Homogeneous	None Detected	Synthetic Fiber Non-Fibrous Material	15% 85%
CHE-SP7078- 180821-036	Coating, Silver/ Brown, Homogeneous	None Detected	Synthetic Fiber Non-Fibrous Material	15% 85%
CHE-SP7078- 180821-037	LAYER 1 Compound, Green, Homogeneous	None Detected	Non-Fibrous Material	100%
	LAYER 2 Mastic, Yellow, Homogeneous	None Detected	Non-Fibrous Material	100%
	LAYER 3 Fiberboard, Brown, Homogeneous	None Detected	Cellulose Fiber Non-Fibrous Material	20% 80%
CHE-SP7078- 180821-038	LAYER 1 Compound, Green, Homogeneous	None Detected	Non-Fibrous Material	100%
	LAYER 2 Mastic, Yellow, Homogeneous	None Detected	Non-Fibrous Material	100%
	LAYER 3 Fiberboard, Brown, Homogeneous	None Detected	Cellulose Fiber Non-Fibrous Material	20% 80%

Scott Ward, Ph.D. Lab Director

Analyst

Taylor Smylie

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> Page 5 of 7 AIHA-LAP, LLC Lab ID: 157714 NVLAP Lab Code: 600120-0 TDSHS License: 30-0457

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Bulk Asbestos Fiber Analysis by Polarized Light Microscopy (PLM) EPA 600/M4-82-020; 600/R-93/116 - Point Count Method

Joseph Kulm Earth Services & Abatement, Inc. 6700 E. 50th Avenue Commerce City CO 80022

Taylor Smylie

 Order #:
 JH21130143

 Project #:
 215WY001

 Date Received:
 25-Aug-2021

 Date Analyzed:
 29-Aug-2021

 Date Reported:
 30-Aug-2021

SP 7078 - WY Rollingstock Inspections-REVISED

Sample ID #	Sample Description	Asbestos Constituents		Non-Asbestos Constituents	
CHE-SP7078- 180821-039	LAYER 1 Compound, Green, Homogeneous	None Detected		Non-Fibrous Material	100%
	LAYER 2 Mastic, Yellow, Homogeneous	None Detected		Non-Fibrous Material	100%
	LAYER 3 Fiberboard, Brown, Homogeneous	None Detected		Cellulose Fiber Non-Fibrous Material	20% 80%
CHE-SP7078- 180821-040	Mastic Wrap, Beige, Homogeneous	Chrysotile	10%	Synthetic Fiber Non-Fibrous Material	15% 75%
CHE-SP7078- 180821-042	Mastic Wrap, *Not analyzed per client request				
CHE-SP7078- 180821-043	Flooring, Red/ Black, Homogeneous Original PLM Result: 3% Chrysotile	Chrysotile	1.92%	Cellulose Fiber Non-Fibrous Material	5% 93.08%
	Gravimetric Reduction F	Prep			
CHE-SP7078- 180821-044	Flooring, *Not analyzed per client reque	est			
CHE-SP7078- 180821-045	Flooring, *Not analyzed per client reque	est			
CHE-SP7078- 180821-046	LAYER 1 Vibration Damper, Brown, Homogeneor	None Detected us		Synthetic Fiber Non-Fibrous Material	15% 85%
	LAYER 2 Mastic, Brown, Homogeneous	None Detected		Non-Fibrous Material	100%

Scott Ward, Ph.D. Lab Director

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organically bound materials (NOB) reported as None Detected or < 1% Asbestos by PLM. All samples received in good condition unless otherwise noted. This report shall

Analyst

3113 Red Bluff Road, Pasadena, TX 77503 Phone: (713) 290-0223 - Fax: (713) 290-0248 *J3Resources.com*



Bulk Asbestos Fiber Analysis by Polarized Light Microscopy (PLM) EPA 600/M4-82-020; 600/R-93/116 - Point Count Method

Joseph Kulm Earth Services & Abatement, Inc. 6700 E. 50th Avenue Commerce City CO 80022
 Order #:
 JH21130143

 Project #:
 215WY001

 Date Received:
 25-Aug-2021

 Date Analyzed:
 29-Aug-2021

 Date Reported:
 30-Aug-2021

SP 7078 - WY Rollingstock Inspections-REVISED

Sample ID #	Sample Description	Asbestos Constituents	i	Non-Asbestos Constituents	
CHE-SP7078- 180821-047	LAYER 1 Vibration Damper, Brown, Homogeneou	None Detected		Synthetic Fiber Non-Fibrous Material	15% 85%
	LAYER 2 Mastic, Brown, Homogeneous	None Detected		Non-Fibrous Material	100%
CHE-SP7078- 180821-048	LAYER 1 Vibration Damper, Brown, Homogeneou	None Detected		Synthetic Fiber Non-Fibrous Material	15% 85%
	LAYER 2 Mastic, Brown, Homogeneous	None Detected		Non-Fibrous Material	100%
CHE-SP7078- 180821-049	Mastic Wrap, White, Homogeneous	Chrysotile	15%	Non-Fibrous Material	85%
CHE-SP7078- 180821-050	Mastic Wrap, *Not analyzed per client request				
CHE-SP7078- 180821-051	Mastic Wrap, *Not analyzed per client request				

Scott Ward, Ph.D. Lab Director

Taylor Smylie

Analyst

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Revision #v7/MF Revision Date: 3/09/2020

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J3 Resources

Open Lab Fee

JS	3 Orde St (gt/ 1 st Zily)

Submitter Name: Joseph Kulm					Bill to: Same						
Company: E	pany: Earth Services & Abatement, llc				Address:						
	700 E 50th A	ve									
						City/State	e:		Zip		
City/States Comm	erce City , (0	Zin	: 8002	2		15WY001				
City/State: Comm			<u></u>	A Carlot A Carlot A Carlot	A CONTRACTOR AND A CONTRACTOR OF	nformat	a daare oo taaled ah dada iyo				
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Project Name: WY Rollingstock Inspections Project #: 215WY001 - SP 7078					Telep	hone – Office/0	Cell 4	02-578-685	8		
Reports - Email Addre		wozab	@esasi	le.com	iosepl					······	
Invoice - Email Addres			9		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			mail:		pal: 🛛	
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PLM - Bulk	PCM -	Air	TEM	- Air	TE	M - Bulk	TEM - Wate	r 1	EM - Dust	Soil/Vermiculite/Ore	
EPA 600/R-93/116 O NIOSH 74 Ø Visual Estimation (<1%) O ASTM D7 O 400 Point Count 0.25% O ISO 8672 O 1,000 Point Count 0.1% O SHA ID- O Gravimetric Reduction O Matrix Reduction (+/-) O NIOSH 9002 O O		7201 2	201 O NIOSH 7402 O ASTM D6281		 Gravimetric Reduction (<1% Matrix Reduction (+/-) Qualitative (+/-) Drop Mount Filtration) Drinking Water ○ >10 µm fibers ○ ≥0.5 µm fibers ○ EPA 100.2 Effluent / WW		ASTM D5755 Microvac ASTM D6480 Wipe 600/J-93/167 Carpet - EPA Bulk Dust Qualitative	 ASTM 7521-TEM (+/-) ASTM 7521-TEM (<1%) CARB 435-Modified Soil – PLM Only (+/-) Vermiculite - TEM (+/-) Vermiculite-Cincinnati Erionite ID 	
			META	LS					SILICA	/PARTICULATES	
Flame AA			Graphite Furnace AA - LEAD				ICP X			X-Ray Diffraction / Gravimetric	
 C Lead in Paint - SW846 7420/3050B C Lead in Air - NIOSH 7082 C Lead in Wipes - SW846 7420/3050B C Lead in Soil - SW846 7420/3050B O TCLP - SW846-1311/6010B 		O Drinking Water – EPA 200.9 O Wastewater – SW846-7421 O Soil/Sludge – SW846-7421 O Air – NIOSH 7105				O Wipe/Soil SW846-6010B N O Effluent SW846-6010B O Welding Fume NIOSH 7300M O N		NIOSH 750	espirable Crystalline Silica IOSH 7500 / OSHA 142 IOSH 0500 – Total Particulates IOSH 0600 – Respirable Particulates		
Total Number of	Samples S	Subm	itted:	49		Positive	e Stop: 🗉	I YE	S □	NO	
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Eurofins J3 Resources, Inc. + 3113 Red Bluff Road + Pasadena, Texas 77503 + tel: 713-290-0223 + fax: 713-290-0248

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J3 Resources

Project Name WY Rollingstock Inspections Project Number 215WY001 - SP

SAMPLE IDENTIFICATION

Page ____ of ____

SAMPLE NUMBER	SAMPLE LOCATION / MATERIAL	VOLUME/CONDITION		
CHE-SP7078-180821-001	Black/Gray sealant			
CHE-SP7078-180821-002	Roof seams and penetrations			
CHE-SP7078-180821-003				
CHE-SP7078-180821-004	White sealant			
CHE-SP7078-180821005	Roof patches			
CHE-SP7078-180821-006				
CHE-SP7078-180821-007	Paper Insulation			
CHE-SP7078-180821-008	Wall, floor and ceiling			
CHE-SP7078-180821-009				
CHE-SP7078-180821-010	Red vinyl flooring			
CHE-SP7078-180821-011	Kitchen			
CHE-SP7078-180821-012				
CHE-SP7078-180821-013	Gray 9"x9" floor tile			
CHE-SP7078-180821-014	Kitchen			
CHE-SP7078-180821-015				
CHE-SP7078-180821-016	Cementious Flooring			
CHE-SP7078-180821-017	Interior throughout			
CHE-SP7078-180821-018				
CHE-SP7078-180821-019	White fiberboard			
CHE-SP7078-180821-020	Interior elec./boiler components			
CHE-SP7078-180821-022	Elec. Wiring			
CHE-SP7078-180821-023	Interior walls			
CHE-SP7078-180821-024				

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Project Name WY Rollingstock Inspections Project Number 215WY001 - SP

SAMPLE IDENTIFICATION

Page ____ of ____

J3 Resources

SAMPLE NUMBER	SAMPLE LOCATION / MATERIAL	VOLUME/CONDITION
CHE-SP7078-180821-025	Fireboard	
CHE-SP7078-180821-026	Interior elec. area behind components	
CHE-SP7078-180821-027		
CHE-SP7078-180821-028	Bakelite	
CHE-SP7078-180821-029	Interior elec. components	
CHE-SP7078-180821-030		
CHE-SP7078-180821-031	Gasket	
CHE-SP7078-180821-032	Interior elec. components	
CHE-SP7078-180821-033		
CHE-SP7078-180821-034	Silver coating	
CHE-SP7078-180821-035	Interior windows	
CHE-SP7078-180821-036		
CHE-SP7078-180821-037	Masonite	
CHE-SP7078-180821-038	Interior duct facade	
CHE-SP7078-180821-039		
CHE-SP7078-180821-040	Pipe wrap	
CHE-SP7078-180821-042	Interior A/C & Gas lines	
CHE-SP7078-180821-043	Red/black vinyl flooring	
CHE-SP7078-180821-044		
CHE-SP7078-180821-045		
CHE-SP7078-180821-046	Vibration Dampener	
CHE-SP7078-180821-047	Undercarriage generator	
CHE-SP7078-180821-048		

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Project Name WY Rollingstock Inspections Project Number 215WY001 - SP

SAMPLE IDENTIFICATION

Page ____ of ____

J3 Resources

SAMPLE NUMBER	SAMPLE LOCATION / MATERIAL	VOLUME/CONDITION
CHE-SP7078-180821-049	Ріремгар	
CHE-SP7078-180821-050	Undercarriage	
CHE-SP7078-180821-051		
· · · · · · · · · · · · · · · · · · ·		
·	· · · · · · · · · · · · · · · · · · ·	
		*
Comments/Special Instructions:		

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EMSL	EMSL Analytical, Inc. 1010 Yuma Street Denver, CO 80204 Tel/Fax: (303) 740-5700 / (303) 741-1400 http://www.EMSL.com / denverlab@emsl.com	EMSL Order: Customer ID: Customer PO: Project ID:	
Attention:	Amanda Wozab	Phone:	(303) 339-3051
	Earth Services & Abatement, Inc.	Fax:	
	6700 E. 50th Ave.	Received Date:	08/26/2021 4:45 PM
	Commerce City, CO 80022	Analysis Date:	08/30/2021
		Collected Date:	08/18/2021
Project:	215WY001,SP 7078		

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

			Non-Asbe	Asbestos	
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре
CHE-SP7078-180821-0 21	WHITE FIBERBOARD	White Fibrous Homogeneous		35% Non-fibrous (Other)	65% Chrysotile
222106277-0001		-			
CHE-SP7078-180821-0 41	PIPE WRAP	White/Black Fibrous Homogeneous	25% Cellulose	20% Non-fibrous (Other)	55% Chrysotile
222106277-0002		0			

Analyst(s)

Rodney Mosongo (2)

Henry Printz, TEM/PCM Laboratory Supervisor or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method") but augmented with procedures outlined in the 1993 ("final") version of the method. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis . Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Estimation of uncertainty is available on request.

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

Initial report from: 09/01/2021 10:50:28



Asbestos Chain of Custody

EMSL Order Number (Lab Use Only): 227(06277

.

EMSL Analytical, Inc. 1010 Yuma Street

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

Company : Earth Services & Abatement, Inc.			• EMSL-Bill to: Different Same				
Street: 6700 E. 50th Ave.			Third Party Billing requires written authorization from third party				
City: Commerce City	State/F	rovince: CO	Zip/Postal Code: 80022 Country: United States				
Report To (Name): Ama	anda Wozab		Telephone #: 303-991-	1280			
Email Address: See s	pecial instructruction	IS	Fax #: 303-991-1282	Purchase C	Drder:		
Project Name/Number:			Please Provide Results		mail Mail		
U.S. State Samples Tal			Connecticut Samples:		sidential		
	Turn	around Time (TA	T) Options* – Please Che	eck			
3 Hour 6 H	our 🗌 🗌 24 Hour	48 Hour	72 Hour	96 Hour 🛛 🗍 1 Weel			
*For TEM Air 3 hr through 6 an authorization form	hr, please call ahead to sch n for this service. Analysis	hedule.*There is a prer completed in accorda	nium charge for 3 Hour TEM Al nce with EMSL's Terms and Co	HERA or EPA Level II TAT. Inditions located in the Analy	You will be asked to sign tical Price Guide.		
PCM - Air 🗌 Check if s	amples are from NY	<u>TEM – Air</u> 🗌 4-	4.5hr TAT (AHERA only)	<u>TEM- Dust</u>			
NIOSH 7400		AHERA 40 C	FR, Part 763	Microvac - ASTM	D 5755		
🔲 w/ OSHA 8hr. TWA		🛛 🗌 NIOSH 7402		Wipe - ASTM D64	80		
PLM - Bulk (reporting)	imit)	EPA Level II		Carpet Sonication	(EPA 600/J-93/167)		
🔳 PLM EPA 600/R-93/1	116 (<1%)	🛛 ISO 10312		Soil/Rock/Vermiculi	te		
🔲 PLM EPA NOB (<1%)	TEM - Bulk		- PLM CARB 435 -	A (0.25% sensitivity)		
Point Count		ETEM EPA NO	B	PLM CARB 435 -	B (0.1% sensitivity)		
🔳 400 (<0.25%) 🔲 100	0 (<0.1%)	D NYS NOB 19	8.4 (non-friable-NY)	TEM CARB 435 -	B (0.1% sensitivity)		
Point Count w/Gravimeti	ric	Chatfield SOF	2	TEM CARB 435 -	C (0.01% sensitivity)		
🔳 400 (<0.25%) 🛄 100	0 (<0.1%)	TEM Mass Ar	nalysis-EPA 600 sec. 2.5	🔲 TEM Qual. via Fili	ration Technique		
🔲 NYS 198.1 (friable in	ι NY)	TEM - Water: E	PA 100.2	op-Mount Technique			
🔲 NYS 198.6 NOB (no.	n-friable-NY)	Fibers >10µm	🗌 Waste 🔲 Drinking	Other:			
NIOSH 9002 (<1%)		All Fiber Sizes	🗌 Waste 🔲 Drinking				
Check For Positive	Stop - Clearly Identify	y Homogenous G	roup Filter Pore Size (Air Samples): 📋 0.8	µm 🗌 0.45µm		
		* *					
Samplers Name: JOS			Samplers Signature:				
Sample #	_	Sample Descripti	on	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled		
CHE-SP7078-180821-021	V	Vhite fiberbo	ard		8/18/2021, 1000 AM		
CHE-SP7078-180821-041		Pipe wrap			8/18/2021, 1145 AM		
			· · ·	1			
				1			
Client Sample # (s):			·	 Total # of Samples:	L		
Relinquished (Client):	Polest Sny	valer Date:	8-26-21	<u>rotar # or Samples.</u> Time	•		
Received (Lab):		NK Date:	\$126.00	Time	4.176		
Comments/Special Inst	tructions:	, v - Date.	<i>y</i> · • • • •		• ·		
-		: robert.szynskie@esasite.ci	om, amanda.wozab@esasite.com; patr	ick.mogilvrey@esasite.com			
		-					
		4					

Page 1 of ____ pages

Eurofins J3 Resources, Inc.

3113 Red Bluff Road Pasadena, Texas 77503 Phone: (713) 290-0223 – Fax: (832) 831-5669 *j3resources.com*



J3 Resources

<u>Lead in Paint Performed by</u> <u>Flame AA – USEPA SW846 7420/3050B (Mod.)</u>

Amanda Wozab Earth Services & Abatement, Inc. 6700 E. 50th Avenue Commerce City, CO 80022

Order #:	JP211029248
Project #:	215WY001
Receipt Date:	26-Aug-2021
Analysis Date:	30-Aug-2021
Report Date:	30-Aug-2021

SAMPLE ID	PAINT COLOR	LEAD CONCENTRATION (mg/kg)	LEAD CONCENTRATION (%)
CHE-SP7078-180821-001L	Black	1200	0.12%
CHE-SP7078-180821-002L	Beige	1300	0.13%
CHE-SP7078-180821-003L	Red	7000	0.7%
CHE-SP7078-180821-004L	Yellow	41000	4.1%
CHE-SP7078-180821-005L	Light Red	32000	3.2%
CHE-SP7078-180821-006L	White	7300	0.73%

WY Rollingstock Inspections-SP 7078

Reporting Limit = 50.0 mg/kg N/A = Not Applicable INS = Insufficient Sample Weight NS = Not Submitted

Analyst: Samantha Harrison

Scott Ward, Ph.D. Lab Director

This report relates only to the samples submitted. The analysis has been conducted according to the method(s) listed above. Blank corrections are not applied to data unless requested by the customer. This report is for the exclusive use of the addressed customer and shall not be reproduced except in full without written approval by Eurofins J3 Resources, Inc. (EJ3). EJ3 is an EPA NLLAP recognized lab by the AIHA-LAP, LLC ELLAP (Lab ID: 157714). Unless otherwise noted, all quality control samples performed within specifications established by the laboratory. The estimated accuracy is solely based on recovery data from internal laboratory control samples at the 95% confidence interval of the level of concern, derived from a 224.2 mg/kg lead in paint matrix reference material. The estimated accuracy does not account for uncertainty associated with the sampling process. Accuracy = +/-14%

Revision	#v7/N	1F
Revision	Date:	3/09/2020

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J3 Resource

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Submitter Name:	Joseph Kulm	Joseph Kulm			Bill to:	Same					
Company:	Earth Servic	arth Services & Abatement, Ilc			Address						
Address:	6700 E 50th /	Ave									
						City/State	e:		Zip		
City/State: Commerce City , CO Zip: 80022					22	1	15WY001		•		
<u>Sity/etute:</u>			<u>41-7</u>	and the second second second	1. March 2. March 2. J.	nformat	ion	NG GARA	a sugar e		
Project Name: WY	Rollingstock In	spectio	ons			Proje	ct Manager:	Amand	a Wozab		
Project #: 215WY0						Telep	ohone – Offic	e/Cell 4	402-578-685	8	
Reports - Email Ad	dress: amanda	wozat	@esasi	ite.com	, josepł	n.kulm@es	asite.com, ro	bert.sz	ynskie@esa	site.com	
nvoice - Email Add	ress: same					Noti	fication By:	Email	: 🔳 Verl	pal: 🛛	
Special Instructions	»:										
·			Turnar	ound	Times	s — Pleas	e Select O	ne			e de Capita
Emergency*	□ 1	Day	ay lang tang tang tang tang tang tang tang t		2 Day			ay 🗹		5 Day	, 🛛
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PLM - Bulk	PCM	Air	TEM	- Air	TE	V - Bulk	- Bulk TEM - Water 7		TEM - Dust Soil/Vermicul		
EPA 600/R-93/116 Visual Estimation (~ 400 Point Count 0.2 1,000 Point Count (Gravimetric Reduct Matrix Reduction (+ NIOSH 9002 OSHA ID-191	25% O ISO 867 0.1% O OSHA I ion	07201 2	○ AHEF ○ NIOS ○ ASTN ○ ISO 1 ○ ISO 1	H 7402 D6281 0312	Redu O Matri Redu O Qual o Dro	vimetric uction (<1%) ix uction (+/-) litative (+/-) op Mount ration	 >10 µm fi ≥0.5 µm fi EPA 100.2 Effluent / W Received on i 	ater bers ibers W	ASTM D5755 Microvac ASTM D6480 Wipe 600/J-93/167 Carpet - EPA Bulk Dust Qualitative	 ASTM 7 CARB 4 Soil - PL Vermicul 	521-TEM (+/-) 521-TEM (<1% 35-Modified .M Only (+/-) ite - TEM (+/-) ite-Cincinnati D
	· · · ·		MET	ALS					SILICA	/PARTI	CULATES
Flame	AA	Gr	aphite F	urnace AD	AA -	ICP X-Ray Diffraction / Gravimet			Gravimetric		
			7421	O Elements in Air - NIOSH 7300 O RespirableCrystallineSilica O Wipe/Soil - SW846-6010B NIOSH 7500 / OSHA 142 O Effluent - SW846-6010B NIOSH 0500 - Total Particulates O Welding Fume - NIOSH 7300M NIOSH 0500 - Total Particulates			2 rticulates				
Total Number of	of Samples	Subm	nitted:	6		Positiv	e Stop:		ES 🖬	NO	
	$-\overline{\Lambda}$	10	A		Sigr	natures	$-\Lambda$		allow las		
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Project Name WY Rollingstock Inspections

Project Number 215WY001 - SP

SAMPLE IDENTIFICATION

Page _____ of _____

J3 Resources

SAMPLE NUMBER	SAMPLE LOCATION / MATERIAL	VOLUME/CONDITION
CHE-SP7078-180821-001L	Black	
	Roof	
CHE-SP7078-180821-002L	Beige	
	Interior walls	
CHE-SP7078-180821-003L	Red	
	Interior floors	
CHE-SP7078-180821-004L	Yellow	
	Exterior	
CHE-SP7078-180821-005L	Light Red	
	Exterior	
CHE-SP7078-180821-006L	White	
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Eurofins J3 Resources, Inc. • 6110 West 34th Street • Houston, Texas 77092 • tel: 713-290-0221 • fax: 713-290-0248 Eurofins J3 Resources, Inc. • 3113 Red Bluff Road • Pasadena, Texas 77503 • tel: 713-290-0223 • fax: 713-290-0248

Appendix 3 - Modified Sawyer Algorithm

Report Date	09/08/2021
Rolling Stock Type	Railcar
Rolling Stock No	SP 7078

Asbestos Potential Exposure and Priority Level Algorithm

Aspesios Polential Exposure and Phon Asset Number		SP 7078		
		i		
Exposure Area	Roof seams and penetrations	Wall, floor and ceiling		
Asbestos Containing Material	Black/gray sealant	White/brown paper insulation		
Sample Number	CHE-SP7078-180821-001 thru 003	CHE-SP7078-180821-007 thru 009		
Size	NA	NA		
Quantity	30 SF	3800 SF		
MATERIAL CONDITION (MC)	2	2		
 0 =No damage, excellent condition 1 =Very minor damage, no visible debris 2 =Damage is evident, small area 3 =Damage is easily seen, some debris 4 =Damage is widespread, debris is common 5 =Most or all material is damaged, hanging, and / or found as debris throughout the area 				
BUILDING AGE (BA)	1	1		
1 =>30 years old 0 =15 - 30 years old -1 =<15 years old				
MATERIAL TYPE				
Pipe Covering (PC) 1 =MAG/CAL Silicate	NA	NA		
-1 =Air Cell / paper				
Ceiling Plasters or Fireproofing (CP)	NA	NA		
 -1 =Cementitious (Monocoat) 0 =Standard 1 ="Cotton Candy" texture 				
WATER DAMAGE (WD)	0	0		
 0 =No water damage 1 =Small amount of damage can be seen; damage is localized rather than widespread 2 =Good deal of water damage; widespread 				
ROOF CHARACTERISTICS (RC)	-0.5	-0.5		
-0.5 =Sloped or Hipped -0.5 =Metal or Concrete 0.5 =Flat or Built-up	-0.5	-0.5		
EXPOSED SURFACE AREA (ESA)	4	4		
 0 =Material behind a permanent enclosure 2 =Material behind a lay-in ceiling or in open tunnel 4 =Material is exposed 	· · · · · · · · · · · · · · · · · · ·	i		
ACCESSIBILITY (AC)	3	4		
0 =Totally inaccessible 1 =Can only reach with hands, ie. pipe chase 2 =An open tunnel or above a drop ceiling 3 =Exposed overall, but can't reach, ie. >10' high 4 =Material is out in the open and <10' high				
ACTIVITY AND MOVEMENT (A/M)	1	2		
0 =No occupants enter the area 1 =Area is accessed infrequently 2 =Area is accessed frequently				
WORK ENVIRONMENT (WE)	0.5	0.5		
-0.5 =Sedentary				
0.5 =Non-sedentary SOUND AND MECHANICAL VIBRATIONS (SMV) 0.5 =Frequent or Constant	0.5	0.5		
-0.5 =No recognizable vibration				
AIR - PLENUM / AIR STREAM (AP) 0 =No air plenum or air flow	1	1		
1 =Air plenum or air flow exists				
VELOCITY (if Air Plenum = 1) (VEL) 0.25 =Recognizable by human feeling -0.25 =Non-recognizable by human feeling	0.25	-0.25		
FLOW (if Air Plenum = 1) (FL) -0.25 =Constant, steady stream 0.25 =Impact, gusty flow	0.25	NA		
FRIABILITY (F)	1	3		
 1 =Very hard to crumble under hand pressure 2 = Will crumble under a little hand pressure 3 =Extremely easy to crumble under light pressure 	· · · · · · · · · · · · · · · · · · ·			
ASBESTOS CONTENT (ASB)	1	2		
0 =None <1% 1 =1% to 10% Asbestos 2 =11% to 50% Asbestos 3 =51% to 100% Asbestos				
Exposure Value	13	85.5		
Rating	4	1		

Asbestos Potential Exposure and Priori

Asbestos Potential Exposure and Prior		
Asset Number	SP 7078	SP 7078
Exposure Area	Kitchen floor	Interior floor throughout
Asbestos Containing Material	Gray 9"x9" floor tile and gray leveling compound	Red cementous flooring
Sample Number	CHE-SP7078-180821-013 thru 015	CHE-SP7078-180821-016 thru 018
Size	NA	NA
Quantity	100 SF	800 SF
MATERIAL CONDITION (MC)	3	3
 0 =No damage, excellent condition 1 =Very minor damage, no visible debris 2 =Damage is evident, small area 3 =Damage is easily seen, some debris 4 =Damage is widespread, debris is common 5 =Most or all material is damaged, hanging, and / or found as debris throughout the area 		
BUILDING AGE (BA) 1 =>30 years old	1	1
0 = 15 - 30 years old -1 =<15 years old		
MATERIAL TYPE		
Pipe Covering (PC) 1 =MAG/CAL Silicate -1 =Air Cell / paper	NA	NA
Ceiling Plasters or Fireproofing (CP) -1 =Cementitious (Monocoat) 0 =Standard 1 ="Cotton Candy" texture	NA	NA
WATER DAMAGE (WD)	0	0
0 =No water damage 1 =Small amount of damage can be seen; damage is localized rather than widespread 2 =Good deal of water damage; widespread	· · · · · · · · · · · · · · · · · · ·	v
ROOF CHARACTERISTICS (RC)	-0.5	-0.5
-0.5 =Sloped or Hipped -0.5 =Metal or Concrete 0.5 =Flat or Built-up	0.0	0.0
EXPOSED SURFACE AREA (ESA) 0 =Material behind a permanent enclosure 2 =Material behind a lay-in ceiling or in open tunnel 4 =Material is exposed	4	4
ACCESSIBILITY (AC)	4	4
0 =Totally inaccessible 1 =Can only reach with hands, ie. pipe chase 2 =An open tunnel or above a drop ceiling 3 =Exposed overall, but can't reach, ie. >10' high 4 =Material is out in the open and <10' high		
ACTIVITY AND MOVEMENT (A/M)	2	2
 0 =No occupants enter the area 1 =Area is accessed infrequently 2 =Area is accessed frequently 		
WORK ENVIRONMENT (WE)	0.5	0.5
-0.5 =Sedentary 0.5 =Non-sedentary		
SOUND AND MECHANICAL VIBRATIONS (SMV) 0.5 =Frequent or Constant -0.5 =No recognizable vibration	0.5	0.5
AIR - PLENUM / AIR STREAM (AP) 0 =No air plenum or air flow	1	1
1 =Air plenum or air flow exists VELOCITY (if Air Plenum = 1) (VEL)	-0.25	-0.25
0.25 =Recognizable by human feeling -0.25 =Non-recognizable by human feeling	-0.20	-0.23
FLOW (if Air Plenum = 1) (FL) -0.25 =Constant, steady stream 0.25 =Impact, gusty flow	NA	NA
FRIABILITY (F)	3	1
 1 =Very hard to crumble under hand pressure 2 = Will crumble under a little hand pressure 3 =Extremely easy to crumble under light pressure 		· · · · · · · · · · · · · · · · · · ·
ASBESTOS CONTENT (ASB) 0 =None <1% 1 =1% to 10% Asbestos 2 =11% to 50% Asbestos 3 =51% to 100% Asbestos	1	1
Exposure Value	45.75	15.25
	40.10	10.20
Rating	2	4
· · ·········]	

Asbestos Potential Exposure and Priori		
Asset Number	SP 7078	SP 7078
Exposure Area	Interior electric and boiler components	Interior electrical area, behind components
Asbestos Containing Material	White fiberboard	Black fiberboard
Sample Number	CHE-SP7078-180821-019 thru 021	CHE-SP7078-180821-025 thru 027
Size	NA	NA
Quantity	20 SF	6 SF
MATERIAL CONDITION (MC)	2	2
 0 =No damage, excellent condition 1 =Very minor damage, no visible debris 2 =Damage is evident, small area 3 =Damage is easily seen, some debris 4 =Damage is widespread, debris is common 5 =Most or all material is damaged, hanging, and / or found as debris throughout the area 		
BUILDING AGE (BA) 1 =>30 years old	1	1
0 = 15 - 30 years old -1 =<15 years old		
MATERIAL TYPE	NA T	
Pipe Covering (PC) 1 =MAG/CAL Silicate -1 =Air Cell / paper	NA	NA
Ceiling Plasters or Fireproofing (CP)	NA	NA
 -1 =Cementitious (Monocoat) 0 =Standard 1 ="Cotton Candy" texture 		
WATER DAMAGE (WD)	0	0
 0 =No water damage 1 =Small amount of damage can be seen; damage is localized rather than widespread 2 =Good deal of water damage; widespread 		
ROOF CHARACTERISTICS (RC)	-0.5	-0.5
-0.5 =Sloped or Hipped -0.5 =Metal or Concrete 0.5 =Flat or Built-up	-0.5	-0.3
EXPOSED SURFACE AREA (ESA)	4	4
 0 =Material behind a permanent enclosure 2 =Material behind a lay-in ceiling or in open tunnel 4 =Material is exposed 		
ACCESSIBILITY (AC)	4	4
0 =Totally inaccessible 1 =Can only reach with hands, ie. pipe chase 2 =An open tunnel or above a drop ceiling 3 =Exposed overall, but can't reach, ie. >10' high 4 =Material is out in the open and <10' high		
ACTIVITY AND MOVEMENT (A/M)	2	2
0 =No occupants enter the area 1 =Area is accessed infrequently 2 =Area is accessed frequently		
WORK ENVIRONMENT (WE)	0.5	0.5
-0.5 =Sedentary		
0.5 =Non-sedentary SOUND AND MECHANICAL VIBRATIONS (SMV) 0.5 =Frequent or Constant	0.5	0.5
-0.5 =No recognizable vibration AIR - PLENUM / AIR STREAM (AP)		
0 =No air plenum or air flow	1	1
1 =Air plenum or air flow exists VELOCITY (if Air Plenum = 1) (VEL)	-0.25	-0.25
0.25 =Recognizable by human feeling -0.25 =Non-recognizable by human feeling	-0.25	-0.25
FLOW (if Air Plenum = 1) (FL) -0.25 =Constant, steady stream 0.25 =Impact, gusty flow	NA	NA
FRIABILITY (F)	1	2
 1 =Very hard to crumble under hand pressure 2 = Will crumble under a little hand pressure 3 =Extremely easy to crumble under light pressure 	·	
ASBESTOS CONTENT (ASB)	3	1
0 =None <1% 1 =1% to 10% Asbestos 2 =11% to 50% Asbestos 3 =51% to 100% Asbestos		
Exposure Value	42.75	28.5
Rating	2	3

Asbestos Potential Exposure and Priori

Asset Number		SP 7078
	51 7070	31 7070
Exposure Area	Braker board	Interior A/C and gas lines
Asbestos Containing Material	Black bakelite	Beige pipe wrap
Sample Number	CHE-SP7078-180821-028 thru 030	CHE-SP7078-180821-040 thru 042
Size	NA	NA
Quantity	2 SF	20 LF
MATERIAL CONDITION (MC)	2	2
 0 =No damage, excellent condition 1 =Very minor damage, no visible debris 2 =Damage is evident, small area 3 =Damage is easily seen, some debris 4 =Damage is widespread, debris is common 5 =Most or all material is damaged, hanging, and / or found as debris throughout the area 		
BUILDING AGE (BA)	1	1
1 =>30 years old 0 =15 - 30 years old -1 =<15 years old		
MATERIAL TYPE		
Pipe Covering (PC) 1 =MAG/CAL Silicate -1 =Air Cell / paper	NA	NA
Ceiling Plasters or Fireproofing (CP)	NA	NA
-1 =Cementitious (Monocoat) 0 =Standard 1 ="Cotton Candy" texture		
WATER DAMAGE (WD)	0	0
0 =No water damage 1 =Small amount of damage can be seen; damage is localized rather than widespread 2 =Good deal of water damage; widespread		
ROOF CHARACTERISTICS (RC)	-0.5	-0.5
-0.5 =Sloped or Hipped -0.5 =Metal or Concrete 0.5 =Flat or Built-up	-0.5	-0.5
EXPOSED SURFACE AREA (ESA)	4	4
 0 =Material behind a permanent enclosure 2 =Material behind a lay-in ceiling or in open tunnel 4 =Material is exposed 		· · · · · · · · · · · · · · · · · · ·
ACCESSIBILITY (AC)	4	4
0 =Totally inaccessible 1 =Can only reach with hands, ie. pipe chase 2 =An open tunnel or above a drop ceiling 3 =Exposed overall, but can't reach, ie. >10' high 4 =Material is out in the open and <10' high		
ACTIVITY AND MOVEMENT (A/M)	2	2
 0 =No occupants enter the area 1 =Area is accessed infrequently 2 =Area is accessed frequently 		
WORK ENVIRONMENT (WE) -0.5 =Sedentary 0.5 =Non-sedentary	0.5	0.5
SOUND AND MECHANICAL VIBRATIONS (SMV) 0.5 =Frequent or Constant -0.5 =No recognizable vibration	0.5	0.5
AIR - PLERUM / AIR STREAM (AP) 0 =No air plenum or air flow 1 =Air plenum or air flow exists	1	1
VELOCITY (if Air Plenum = 1) (VEL) 0.25 =Recognizable by human feeling	-0.25	-0.25
-0.25 =Non-recognizable by human feeling		
FLOW (if Air Plenum = 1) (FL) -0.25 =Constant, steady stream 0.25 =Impact, gusty flow	NA	NA
FRIABILITY (F) 1 =Very hard to crumble under hand pressure 2 = Will crumble under a little hand pressure 3 =Extremely easy to crumble under light pressure	2	3
ASBESTOS CONTENT (ASB) 0 =None <1% 1 =1% to 10% Asbestos 2 =11% to 50% Asbestos	2	3
3 =51% to 100% Asbestos	1	400.05
Exposure Value	57	128.25
Poting		· · · · · · · · · · · · · · · · · · ·
Rating	2	1

Asbestos Potential Exposure and Priori		
Asset Number	SP 7078	SP 7078
Exposure Area	Kitchen floor	Undercarriage
Asbestos Containing Material	Red/black vinyl flooring	White pipe wrap
Sample Number	CHE-SP7078-180821-043 thru 045	CHE-SP7078-180821-049 thru 051
Size	NA	NA
Quantity	100 SF	80 LF
MATERIAL CONDITION (MC)	2	2
 0 =No damage, excellent condition 1 =Very minor damage, no visible debris 2 =Damage is evident, small area 3 =Damage is easily seen, some debris 4 =Damage is widespread, debris is common 5 =Most or all material is damaged, hanging, and / or found as debris throughout the area 		
BUILDING AGE (BA) 1 =>30 years old	1	1
0 =15 - 30 years old		
-1 = <15 years old		
MATERIAL TYPE Pipe Covering (PC)	NA	NA
1 =MAG/CAL Silicate	NA	NA
-1 =Air Cell / paper		
Ceiling Plasters or Fireproofing (CP) -1 =Cementitious (Monocoat) 0 =Standard 1 ="Cotton Candy" texture	NA	NA
WATER DAMAGE (WD)	0	0
 0 =No water damage 1 =Small amount of damage can be seen; damage is localized rather than widespread 		
2 =Good deal of water damage; widespread		
ROOF CHARACTERISTICS (RC) -0.5 =Sloped or Hipped -0.5 =Metal or Concrete 0.5 =Flat or Built-up	-0.5	-0.5
EXPOSED SURFACE AREA (ESA)	4	4
0 =Material behind a permanent enclosure 2 =Material behind a lay-in ceiling or in open tunnel 4 =Material is exposed	~	·
ACCESSIBILITY (AC)	4	4
0 =Totally inaccessible 1 =Can only reach with hands, ie. pipe chase 2 =An open tunnel or above a drop ceiling 3 =Exposed overall, but can't reach, ie. >10' high 4 =Material is out in the open and <10' high		
ACTIVITY AND MOVEMENT (A/M)	2	1
0 =No occupants enter the area 1 =Area is accessed infrequently 2 =Area is accessed frequently		
WORK ENVIRONMENT (WE)	0.5	0.5
-0.5 =Sedentary		
0.5 =Non-sedentary SOUND AND MECHANICAL VIBRATIONS (SMV)	0.5	0.5
0.5 =Frequent or Constant -0.5 =No recognizable vibration AIR - PLENUM / AIR STREAM (AP)	1	1
0 =No air plenum or air flow 1 =Air plenum or air flow exists	L1	LI
VELOCITY (if Air Plenum = 1) (VEL) 0.25 =Recognizable by human feeling -0.25 =Non-recognizable by human feeling	-0.25	0.25
FLOW (if Air Plenum = 1) (FL) -0.25 =Constant, steady stream	NA	0.25
0.25 =Impact, gusty flow FRIABILITY (F)	3	2
1 =Very hard to crumble under hand pressure 2 = Will crumble under a little hand pressure 3 =Extremely easy to crumble under light pressure		<u> </u>
ASBESTOS CONTENT (ASB)	1	2
0 =None <1% 1 =1% to 10% Asbestos 2 =11% to 50% Asbestos 3 =51% to 100% Asbestos		
Exposure Value	42.75	56
Rating	2	2



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Specializing in environmental services and demolition

September 9th, 2021

Union Pacific Railroad Asbestos Program c/o GHD 3807 South 148th Street Omaha, NE 68144

RE: WY, Cheyenne, Rollingstock UP 928, Requested NESHAP Inspection Earth Services & Abatement Project Number: 215WY001

To Whom It May Concern,

Please find our NESHAP report for the above-mentioned requested inspection. Earth Services & Abatement's Joseph Kulm inspected UPRR railcar UP 928 for suspect asbestos-, lead-, and PCB-containing materials. The inspection work took place on August 16th, 2021.

No previous reports were provided for review prior to inspection.

Refer to the report for a summary of this inspection, including inspection/lab results, inspection photographs, and schematics.

If you have any questions or need anything else for this project, please do not hesitate to contact us.

Conducted by,

Jospeh Kulm Inspector Earth Services & Abatement

Reviewed by,

Best Syphie

Robert Szynskie Program Director Earth Services & Abatement Robert.szynskie@esasite.com Cell – 720-206-9238

	Rolling Stoc	ck Asbo	estos Inspe	ection	Report		
				Inspec	tion Start Date	08/16/202	21
BUILDING AMERICA [®] Inspection Type				Inspec	tion End Date	08/16/202	21
X Initial Inspection	Reinspection	X NE	SHAP Inspection	Repor	t Date	09/07/202	21
Inspection Compa Company Earth S	any ervices & Abatemnet		License No.	16608			
Address 6700 E 50)th Ave		– – City Comm	erce City			
			State CO		ip 80022		
Inspector Informa	tion						
First Name Joseph		Las	t Name Kulm				
License TypeAHE	RA License No.	C6LEMQ	A0R3U	Lice	nse State		
Asset Information	l						
Rolling Stock Type	Locomotive Shell						
Rolling Stock No	UP 928		Car Name	UP 928			-
Yard Name	Cheyenne		Subdivision	Unknow	'n		_
Address	East Union Pacific Ave	е.	Mile Post	Unknow	'n		_
City	Cheyenne		Latitude	41.1296	36°		_
State	WY		Longitude	-104.81	5026°		_
Zip Code	82001						
Key Contacts							
Name	Phone Number	Comp	any		Role/Responsibili	ty	
Kulm,Joseph	303-991-1280	Earth	Services & Abate	mnet	Inspector		
Szynskie,Robert	303-991-1280	Earth	Services & Abate	mnet	Program Director		
Dickens,Edgar	307-214-3545	UPRF	R		Local Contact		
was limited by the us	ere made to conduct a c se of hand-tools and sor le. If additional suspect	me additiona	al suspect materia	ls may be	present in areas r	not	

		Koning 5to	ck Asbestos Inspect	поп кер		Report Date	09/07/2021	
W	Ш.				· ·	Stock Type	Locomotive	e Shell
BUILDING	G AMERICA [™]				Rollin	g Stock No	UP 928	
Asb	estos Results							
ACM P	resent ¹ Yes	Total Number o	f ACM Components. ¹ 5		_			
Total N	umber of Materials Containin	g <= 1% Asbestos.	0					
Notes	-							
de			lescriptive than that on the chain- samples CHE-UP928-160821-0					
	Asbestos Sam	ples						
Sample Date	Sample ID	Description	Location	Asbestos Result ²	ACM Category	Friable	Quantity	Modified Algorithm Number
8/16/2021	CHE-UP928-160821-001 thru 003	White pipe wrap	On pipes throughout interior and underside	90%, Chrysotile	Category II	No	222 LF	2
3/16/2021	CHE-UP928-160821-004 thru 006	White/black electrical wire wrap	Wires throughout interior	Not Detected	N/A	N/A	100 LF	N/A
8/16/2021	CHE-UP928-160821-007 thru 009	Black Fireboard	Interior, behind electronic boxes	40%, Chrysotile	Category II	No	10 sq. ft.	3
8/16/2021	CHE-UP928-160821-010 thru 012	Gray/Brown Gaskets	Interior tanks and piping	Not Detected	N/A	N/A	12 LF	N/A
3/16/2021	CHE-UP928-160821-013 thru 015	Yellow/Black Penetration Gaskets	Exterior penetrations	Not Detected	N/A	N/A	8 LF	N/A
	CHE-UP928-160821-016 thru 018	Gray Bakelite	Interior breaker boxes	Not Detected	N/A	N/A	2 sq. ft.	N/A
3/16/2021	CHE-UP928-160821-019			Not				

1 "ACM Present" is defined as material with >1% asbestos, except in California, where Asbestos-Containing Construction Material (ACCM) is defined as >0.1% asbestos.

2 For samples collected in sets, only the highest result is reported. Some of the collected samples may not have been analyzed. See the attached laboratory report for additional details.

3 "Lead Present" and "Positive" is defined as paint with $\geq 0.5\%$ lead.

4 "PCBs Present" and "Positive" is defined as caulk with ≥50 ppm PCBs.



Rolling Stock Asbestos Inspection Report

Report Date 09/07/2021

Rolling Stock Type Locomotive Shell

Rolling Stock No UP 928

BUILDING AMERICA

Asbestos Samples

Sample Date	Sample ID	Description	Location	Asbestos Result ²	ACM Category	Friable	Quantity	Modified Algorithm Number
08/16/2021	CHE-UP928-160821-022 thru 024	Black Headlight Bulb Insulators	Headlight area	Not Detected	N/A	N/A	1 sq. ft.	N/A
08/16/2021	CHE-UP928-160821-025 thru 027	Gray transite	Interior loose bracing pieces	20%, Chrysotile	Category I	No	3 sq. ft.	3
08/16/2021	CHE-UP928-160821-028 thru 030	Black gasket	Interior pipe connections	30%, Chrysotile	N/A	Yes	1 LF	2
08/16/2021	CHE-UP928-160821-031 thru 033	Gray Coating	Roof	10%, Chrysotile	Category II	No	620 sq. ft.	4
08/16/2021	CHE-UP928-160821-034 thru 036	Brown Gasket	Roof, A/C Access	Not Detected	N/A	N/A	16 LF	N/A
08/16/2021	CHE-UP928-160821-037 thru 039	Brown Vinyl Flooring (no mastic)	Floor in cabin	Not Detected	N/A	N/A	40 sq. ft.	N/A

1 "ACM Present" is defined as material with >1% asbestos, except in California, where Asbestos-Containing Construction Material (ACCM) is defined as >0.1% asbestos.

2 For samples collected in sets, only the highest result is reported. Some of the collected samples may not have been analyzed. See the attached laboratory report for additional details.

3 "Lead Present" and "Positive" is defined as paint with $\ge 0.5\%$ lead.

"PCBs Present" and "Positive" is defined as caulk with ≥50 ppm PCBs.

BUILDING AMERIC	CA"		Rolling Stock Rolling Sto	ck No UP 92	motive Shell 28
Lead-Base Lead Present ³ Notes	ed Paint Results Yes Total N	umber of Positive Components. ³			
L	Paint Samples]
Sample Date	Sample ID	Description	Location	Lead Result	Condition
08/16/2021	CHE-UP928-160821-001L	Yellow	Exterior, except for back and roof	11 %	Poor
08/16/2021	CHE-UP928-160821-002L	Gray	Interior, plus exterior back and roof	0.21 %	Poor
]
Mold Resu					
Mold Resu Suspect Mold F Notes					
Suspect Mold F					
Suspect Mold F					
Suspect Mold F					
Suspect Mold F					
Suspect Mold F Notes	Present <u>No</u>	alifornia, where Asbestos-Containing Construction			ails.



Rolling Stock Asbestos Inspection Report Asset Photos Report Date 09/07/2021

BUILDING AMERICA



Railcar ID marker



View of railcar exterior, looking east-southeast

Rolling Stock Type

Locomotive Shell

Rolling Stock No UP 928



View of railcar exterior, looking south



View of interior of railcar



View of interior of railcar



Rolling Stock Asbestos Inspection Report Sample Photos Report Date 09/07/2021

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CHE-UP928-160821-001 thru 003, 90% Asbestos, White pipe wrap



CHE-UP928-160821-004 thru 006, Asbestos Not Detected, White/black electrical wire wrap



CHE-UP928-160821-007 thru 009, 40% Asbestos, Black Fireboard

Rolling Stock Type

Locomotive Shell

Rolling Stock No UP 928



CHE-UP928-160821-001 thru 003, 90% Asbestos, White pipe wrap



CHE-UP928-160821-004 thru 006, Asbestos Not Detected, White/black electrical wire wrap



CHE-UP928-160821-007 thru 009, 40% Asbestos, Black Fireboard



Rolling Stock Asbestos Inspection Report Sample Photos Report Date 09/07/2021

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CHE-UP928-160821-010 thru 012, Asbestos Not Detected, Gray/Brown Gaskets



CHE-UP928-160821-013 thru 015, Asbestos Not Detected, Yellow/Black Penetration Gaskets



Gray Bakelite

Rolling Stock Type

Locomotive Shell

Rolling Stock No UP 928



CHE-UP928-160821-010 thru 012, Asbestos Not Detected, Gray/Brown Gaskets



CHE-UP928-160821-013 thru 015, Asbestos Not Detected, Yellow/Black Penetration Gaskets



CHE-UP928-160821-016 thru 018, Asbestos Not Detected, CHE-UP928-160821-016 thru 018, Asbestos Not Detected, Gray Bakelite



Rolling Stock Asbestos Inspection Report Sample Photos Report Date 09/07/2021

BUILDING AMERICA**



CHE-UP928-160821-019 thru 021, Asbestos Not Detected, Black window gasket



CHE-UP928-160821-022 thru 024, Asbestos Not Detected, Black Headlight Bulb Insulators



CHE-UP928-160821-025 thru 027, 20% Asbestos, Gray transite

Rolling Stock Type

Locomotive Shell

Rolling Stock No

UP 928



CHE-UP928-160821-019 thru 021, Asbestos Not Detected, Black window gasket



CHE-UP928-160821-022 thru 024, Asbestos Not Detected, Black Headlight Bulb Insulators



CHE-UP928-160821-025 thru 027, 20% Asbestos, Gray transite



Rolling Stock Asbestos Inspection Report Sample Photos Report Date 09/07/2021

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CHE-UP928-160821-028 thru 030, 30% Asbestos, Black gasket



CHE-UP928-160821-031 thru 033, 10% Asbestos, Gray Coating



CHE-UP928-160821-034 thru 036, Asbestos Not Detected, Brown Gasket

Rolling Stock Type

e Locomotive Shell

Rolling Stock No UP 928



CHE-UP928-160821-028 thru 030, 30% Asbestos, Black gasket



CHE-UP928-160821-031 thru 033, 10% Asbestos, Gray Coating



CHE-UP928-160821-034 thru 036, Asbestos Not Detected, Brown Gasket



Rolling Stock Asbestos Inspection Report Sample Photos Report Date 09/07/2021

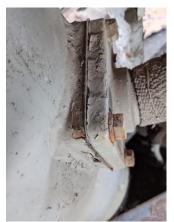
BUILDING AMERICA**



CHE-UP928-160821-037 thru 039, Asbestos Not Detected, Brown Vinyl Flooring (no mastic)



CHE-UP928-160821-001L, 11% Lead, Yellow



CHE-UP928-160821-002L, 0.21% Lead, Gray

Rolling Stock Type

Locomotive Shell

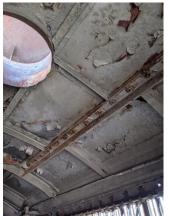
Rolling Stock No UP 928



CHE-UP928-160821-037 thru 039, Asbestos Not Detected, Brown Vinyl Flooring (no mastic)



CHE-UP928-160821-001L, 11% Lead, Yellow

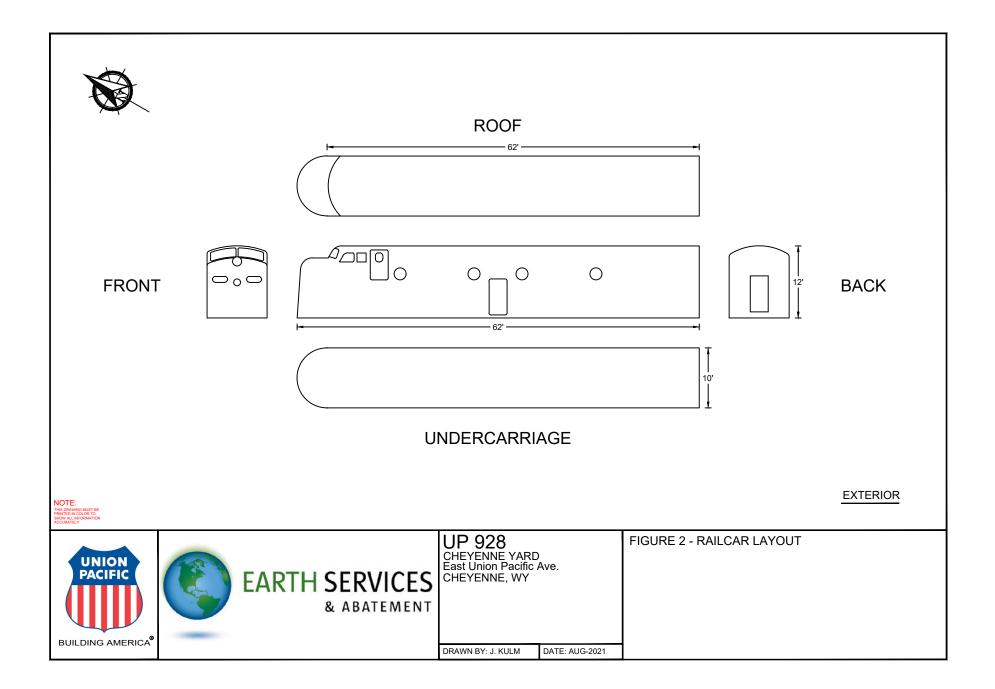


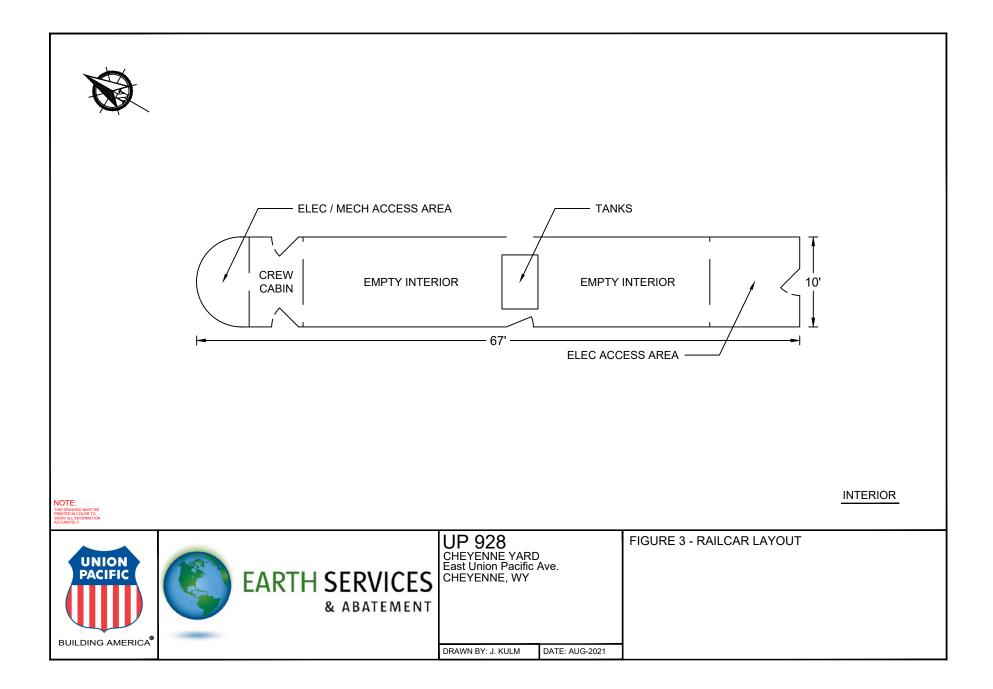
CHE-UP928-160821-002L, 0.21% Lead, Gray

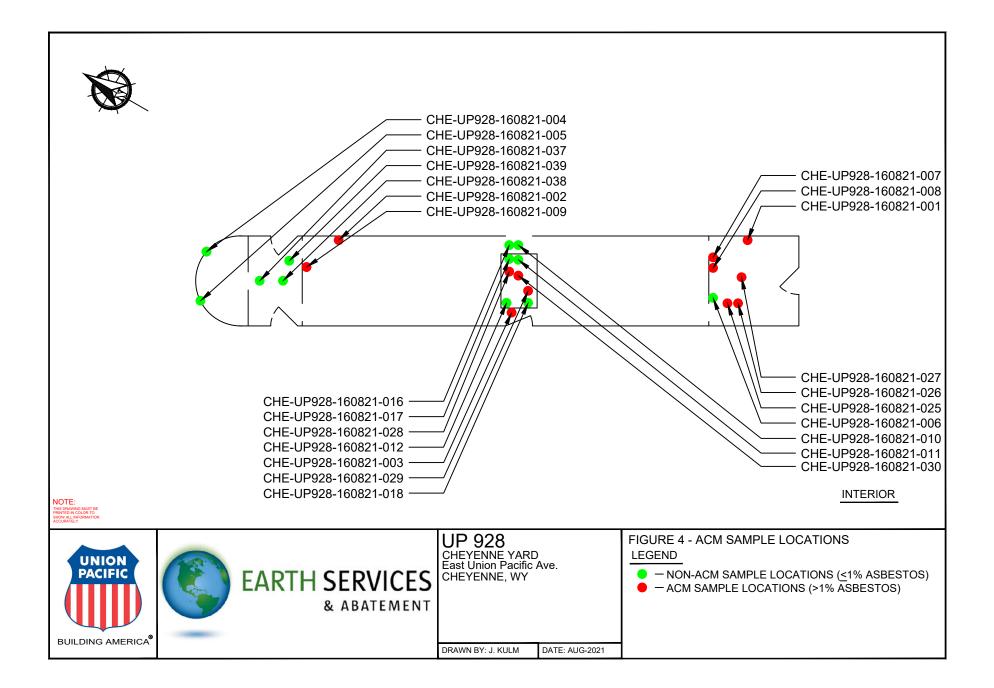
Appendix 1 - Figures

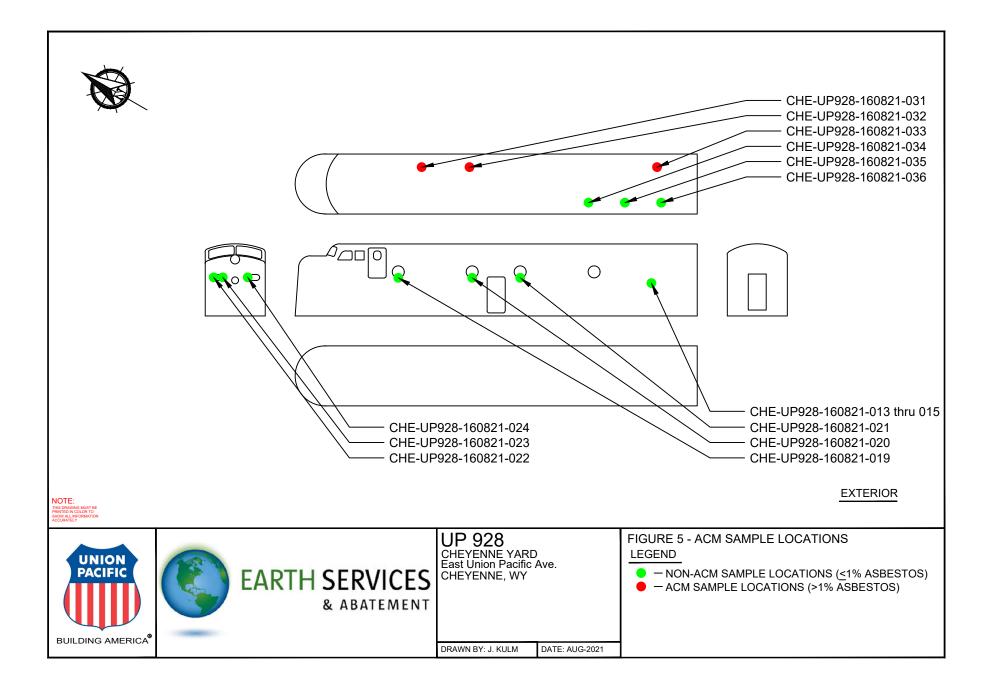
Report Date09/07/2021Rolling Stock TypeLocomotive ShellRolling Stock NoUP 928

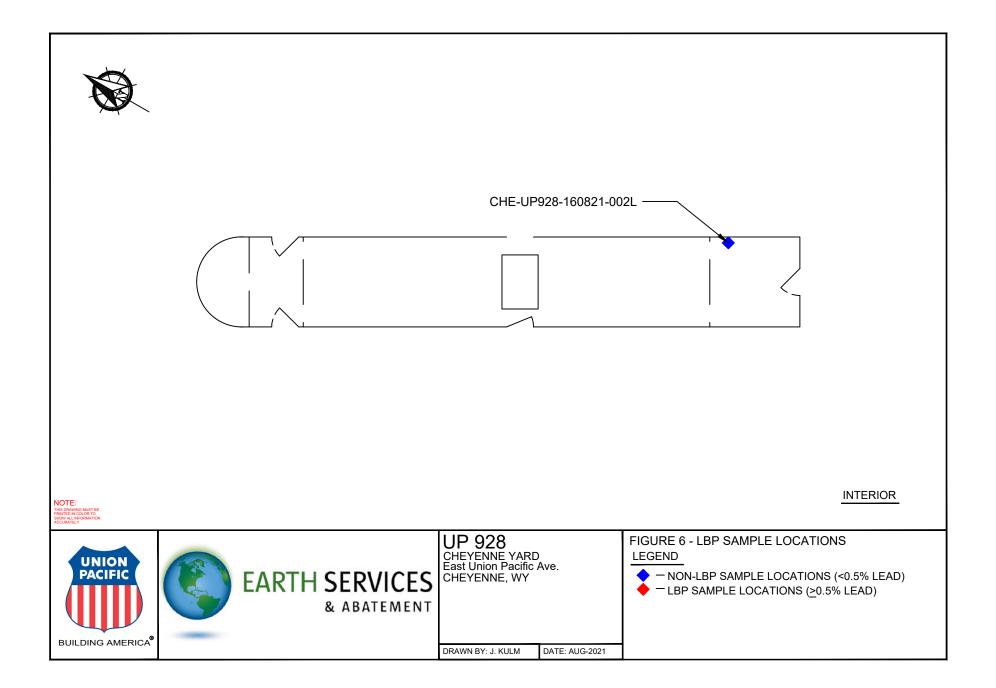


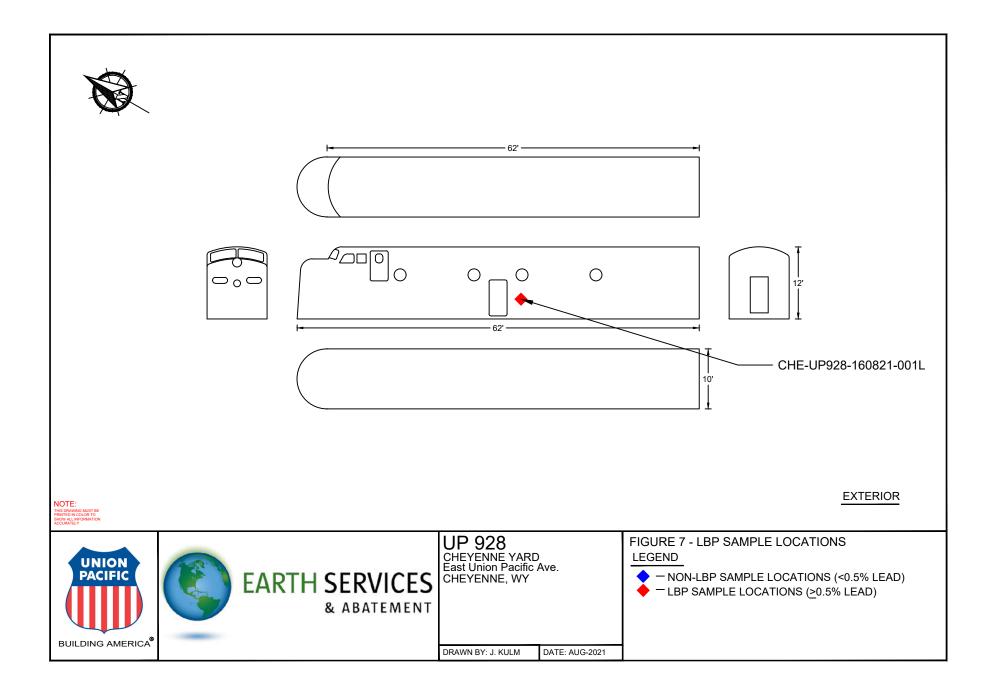


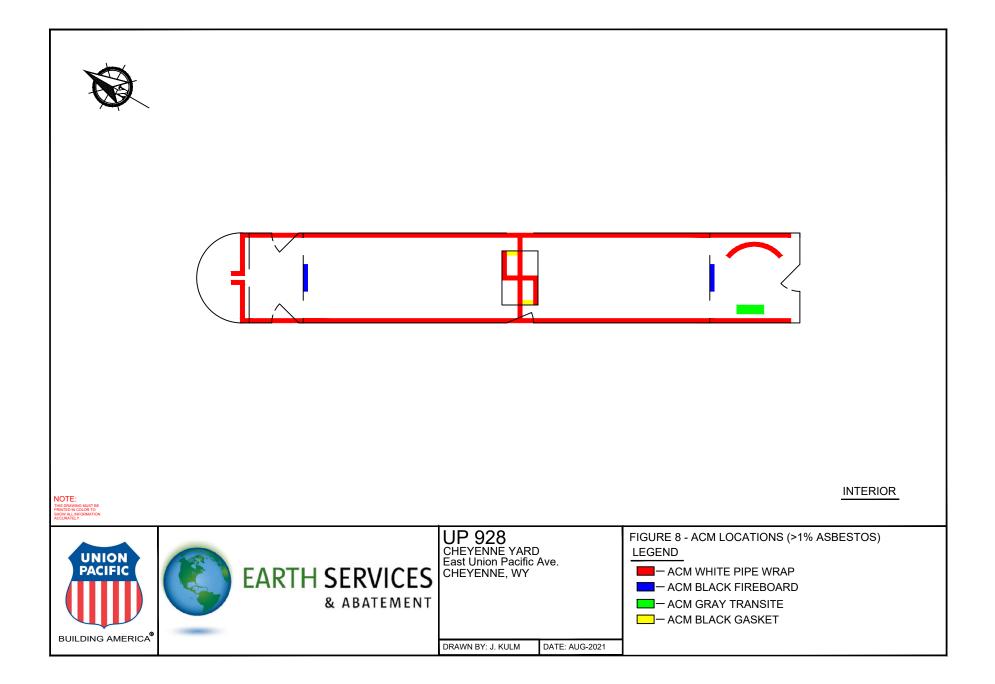


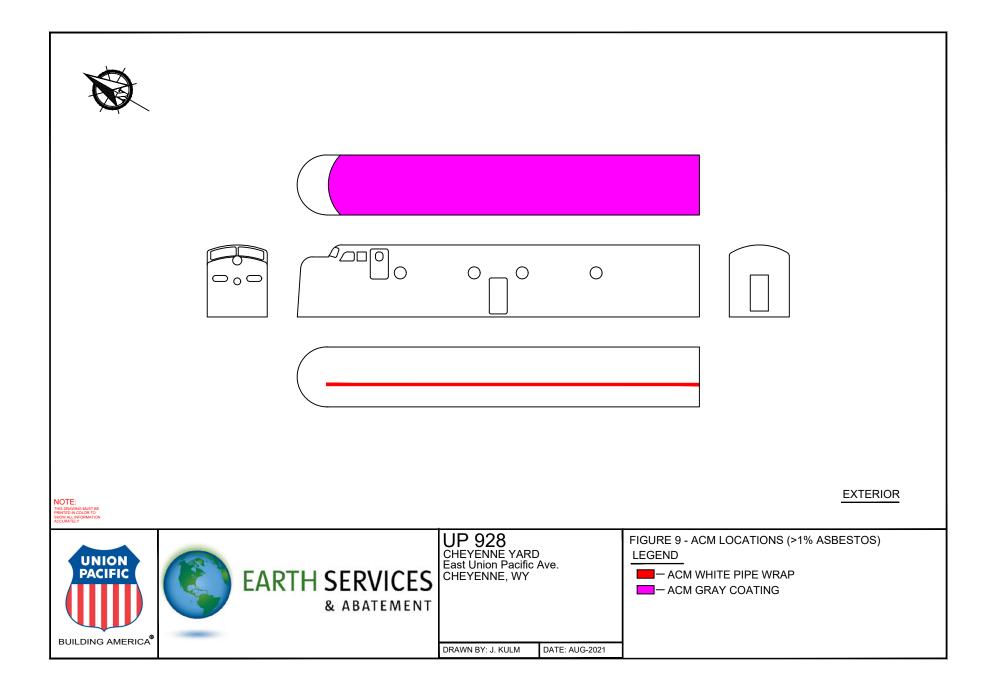












Appendix 2 - Lab Reports and Chain of Custody Receipts

Report Date09/07/2021Rolling Stock TypeLocomotive ShellRolling Stock NoUP 928

Eurofins J3 Resources, Inc.

3113 Red Bluff Road, Pasadena, TX 77503 Phone: (713) 290-0223 - Fax: (713) 290-0248 J3Resources.com





Bulk Asbestos Fiber Analysis by Polarized Light Microscopy (PLM) Appx E Sub E 40 CFR 763 / EPA 600/R-93/116

Joseph Kulm Earth Services & Abatement, Inc. 6700 E. 50th Avenue Commerce City CO 80022

Order #: JH21130148 Project #: 215WY001 25-Aug-2021 Date Received: 27-Aug-2021 Date Analyzed: **Date Reported:** 30-Aug-2021

UP 928 - WY Rollingstock Inspections

Sample ID #	Sample Description	Asbestos Constituents	5	Non-Asbestos Constituents	
CHE-UP928- 160821-001	Pipe Wrap, Brown/ Gray, Homogeneous	Chrysotile	90%	Non-Fibrous Material	10%
CHE-UP928- 160821-002	Pipe Wrap, *Not analyzed per client request				
CHE-UP928- 160821-003	Pipe Wrap, *Not analyzed per client request				
CHE-UP928- 160821-004	LAYER 1 Mastic Wrap, Black, Homogeneous	None Detected		Cellulose Fiber Non-Fibrous Material	5% 95%
	LAYER 2 Wire, Black, Homogeneous	None Detected		Cellulose Fiber Non-Fibrous Material	70% 30%
CHE-UP928- 160821-005	LAYER 1 Mastic Wrap, Black, Homogeneous	None Detected		Cellulose Fiber Non-Fibrous Material	5% 95%
	LAYER 2 Wire, Black, Homogeneous	None Detected		Cellulose Fiber Non-Fibrous Material	70% 30%
CHE-UP928- 160821-006	LAYER 1 Mastic Wrap, Black, Homogeneous	None Detected		Cellulose Fiber Non-Fibrous Material	5% 95%
	LAYER 2 Wire, Black, Homogeneous	None Detected		Cellulose Fiber Non-Fibrous Material	70% 30%
CHE-UP928- 160821-007	Fireboard, Black, Homogeneous	Chrysotile	40%	Non-Fibrous Material	60%
CHE-UP928- 160821-008	Fireboard, *Not analyzed per client request				

Scott Ward, Ph.D. Lab Director

TDSHS License: 30-0457

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AIHA-LAP, LLC Lab ID: 157714

NVLAP Lab Code: 600120-0

Eurofins J3 Resources, Inc.

3113 Red Bluff Road, Pasadena, TX 77503 Phone: (713) 290-0223 - Fax: (713) 290-0248 *J3Resources.com*





Bulk Asbestos Fiber Analysis by Polarized Light Microscopy (PLM) Appx E Sub E 40 CFR 763 / EPA 600/R-93/116

Joseph Kulm Earth Services & Abatement, Inc. 6700 E. 50th Avenue Commerce City CO 80022
 Order #:
 JH21130148

 Project #:
 215WY001

 Date Received:
 25-Aug-2021

 Date Analyzed:
 27-Aug-2021

 Date Reported:
 30-Aug-2021

UP 928 - WY Rollingstock Inspections

Sample ID #	Sample Description	Asbestos Constituents	Non-Asbestos Constituents	
CHE-UP928- 160821-009	Fireboard, *Not analyzed per client request			
CHE-UP928- 160821-010	Gasket, Gray/ Brown, Homogeneous	None Detected	Cellulose Fiber Non-Fibrous Material	80% 20%
CHE-UP928- 160821-011	Gasket, Gray/ Brown, Homogeneous	None Detected	Cellulose Fiber Non-Fibrous Material	80% 20%
CHE-UP928- 160821-012	Gasket, Gray/ Brown, Homogeneous	None Detected	Cellulose Fiber Non-Fibrous Material	80% 20%
CHE-UP928- 160821-013	Penetration Gasket, Yellow/ Black, Homogeneous	None Detected	Non-Fibrous Material	100%
CHE-UP928- 160821-014	Penetration Gasket, Yellow/ Black, Homogeneous	None Detected	Non-Fibrous Material	100%
CHE-UP928- 160821-015	Penetration Gasket, Yellow/ Black, Homogeneous	None Detected	Non-Fibrous Material	100%
CHE-UP928- 160821-016	Bakelite, Gray, Homogeneous	None Detected	Fibrous Glass Non-Fibrous Material	10% 90%
CHE-UP928- 160821-017	Bakelite, Gray, Homogeneous	None Detected	Fibrous Glass Non-Fibrous Material	10% 90%
CHE-UP928- 160821-018	Bakelite, Gray, Homogeneous	None Detected	Fibrous Glass Non-Fibrous Material	10% 90%

Scott Ward, Ph.D. Lab Director

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Asbestos may be detected in concentrations of <1% by area if sufficient material is analyzed. EJ3 recommends TEM confirmation of soils, vermiculite and non-friable
organically bound materials (NOB) reported as None Detected or < 1% Asbestos by PLM. All samples received in good condition unless otherwise noted. This report shall
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Bulk Asbestos Fiber Analysis by Polarized Light Microscopy (PLM) Appx E Sub E 40 CFR 763 / EPA 600/R-93/116

Joseph Kulm Earth Services & Abatement, Inc. 6700 E. 50th Avenue Commerce City CO 80022
 Order #:
 JH21130148

 Project #:
 215WY001

 Date Received:
 25-Aug-2021

 Date Analyzed:
 27-Aug-2021

 Date Reported:
 30-Aug-2021

UP 928 - WY Rollingstock Inspections

Sample ID #	Sample Description	Asbestos Constituents	5	Non-Asbestos Constituents	
CHE-UP928- 160821-019	Window Gasket, Black, Homogeneous	None Detected		Non-Fibrous Material	100%
CHE-UP928- 160821-020	Window Gasket, Black, Homogeneous	None Detected		Non-Fibrous Material	100%
CHE-UP928- 160821-022	Bulb Insulators, Black, Homogeneous	None Detected		Cellulose Fiber Non-Fibrous Material	20% 80%
CHE-UP928- 160821-023	Bulb Insulators, Black, Homogeneous	None Detected		Cellulose Fiber Non-Fibrous Material	20% 80%
CHE-UP928- 160821-024	Bulb Insulators, Black, Homogeneous	None Detected		Cellulose Fiber Non-Fibrous Material	20% 80%
CHE-UP928- 160821-025	Transite, Gray, Homogeneous	Chrysotile	20%	Non-Fibrous Material	80%
CHE-UP928- 160821-026	Transite, *Not analyzed per client reques	st			
CHE-UP928- 160821-027	Transite, *Not analyzed per client reques	st			
CHE-UP928- 160821-028	Gasket, Black, Homogeneous	Chrysotile	30%	Non-Fibrous Material	70%
CHE-UP928- 160821-029	Gasket, *Not analyzed per client request	t			
CHE-UP928- 160821-030	Gasket, *Not analyzed per client request	t			

Scott Ward, Ph.D. Lab Director

Anh PhungAnalystScott Ward, Ph.D.Lab DirectorThese results apply to the sample(s) as received. This report is for the exclusive use of the addressed client and shall not be reproduced except in full, without written approval
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Asbestos may be detected in concentrations of <1% by area if sufficient material is analyzed. EJ3 recommends TEM confirmation of soils, verniculite and non-friable
organically bound materials (NOB) reported as None Detected or < 1% Asbestos by PLM. All samples received in good condition unless otherwise noted. This report shall
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3113 Red Bluff Road, Pasadena, TX 77503 Phone: (713) 290-0223 - Fax: (713) 290-0248 J3Resources.com



Bulk Asbestos Fiber Analysis by Polarized Light Microscopy (PLM) Appx E Sub E 40 CFR 763 / EPA 600/R-93/116

Joseph Kulm Earth Services & Abatement, Inc. 6700 E. 50th Avenue Commerce City CO 80022

Order #: JH21130148 Project #: 215WY001 25-Aug-2021 Date Received: 27-Aug-2021 Date Analyzed: **Date Reported:** 30-Aug-2021

UP 928 - WY Rollingstock Inspections

Sample ID #	Sample Description	Asbestos Constituents	Non-Asbestos Constituents	
CHE-UP928- 160821-031	Coating, Gray, Homogeneous	Chrysotile 10%	Non-Fibrous Material	90%
CHE-UP928- 160821-032	Coating, *Not analyzed per client requ	uest		
CHE-UP928- 160821-033	Coating, *Not analyzed per client requ	uest		
CHE-UP928- 160821-034	Gasket, Brown, Homogeneous	None Detected	Cellulose Fiber Non-Fibrous Material	5% 95%
CHE-UP928- 160821-035	Gasket, Brown, Homogeneous	None Detected	Cellulose Fiber Non-Fibrous Material	5% 95%
CHE-UP928- 160821-036	Gasket, Brown, Homogeneous	None Detected	Cellulose Fiber Non-Fibrous Material	5% 95%
CHE-UP928- 160821-037	Flooring, Brown, Homogeneous No Mastic Present	None Detected	Cellulose Fiber Non-Fibrous Material	30% 70%
CHE-UP928- 160821-038	Flooring, Brown, Homogeneous No Mastic Present	None Detected	Cellulose Fiber Non-Fibrous Material	30% 70%
CHE-UP928- 160821-039	Flooring, Brown, Homogeneous No Mastic Present	None Detected	Cellulose Fiber Non-Fibrous Material	30% 70%

Scott Ward, Ph.D. Lab Director

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AIHA-LAP, LLC Lab ID: 157714

NVLAP Lab Code: 600120-0

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J3 Resources

Open Lab Fee

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Company:	arth Services	& Abatement,	llc	Address			
Address: 67	00 E 50th Ave)					
			• 44 -74 -80	City/Stat			Zip:
	area City CO		90022	City/Stat	e: 15WY001		_ Ziþ
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Project Name: WY Roll		ections			ct Manager: Ama		······································
Project #: 215WY001 - UP 928 Telephone – Office/Cell 402-578-6858						· · · · · · · · · · · · · · · · · · ·	
Reports - Email Addres		ozab@esasite	.com, joseph	n.kuim@es			
Invoice - Email Address	s: same			Noti	fication By: Em	ail: 🔳	Verbal:
Special Instructions: 40	0 point-count	samples with	detections u	ip to 5% as	bestos with GR, a	as needed	
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PLM - Bulk	PCM - Ai	r TEM -	Air TEN	M - Bulk	TEM - Water	TEM - D	Dust TEM/PLM Soil/Vermiculite/Ore
EPA 600/R-93/116 Visual Estimation (<1%) 400 Point Count 0.25% 1,000 Point Count 0.1% Gravimetric Reduction Matrix Reduction (+/-) NIOSH 9002 OSHA ID-191	○ NIOSH 7400 ○ ASTM D720 ○ ISO 8672 ○ OSHA ID-10	01 O NIOSH 7 O ASTM D	7402 Redu 6281 ○ Matr 12 ○ Qual	uction (+/-) litative (+/-) op Mount	 ○ EPA 100.2 Drinking Water >10 µm fibers ≥0.5 µm fibers ○ EPA 100.2 Effluent / WW Received on ice: ○ Yes ○ No Temp: 	 ASTM D Microvac ASTM D Wipe 600/J-93 Carpet - Bulk Dus Qualitativ 	• ASTM 7521-TEM (<1%) • 6480 • CARB 435-Modified • Soil – PLM Only (+/-) • Vermiculite - TEM (+/-) • Vermiculite - Cincinnati
		METAL	S			SIL	ICA/PARTICULATES
Flame AA		Graphite Fur	_		ICP	X-Ra	y Diffraction / Gravimetric
LEAD O Lead in Paint – SW846 7420/3050B O Drinking Water – EPA 200.9 O Lead in Air – NIOSH 7082 O Wastewater – SW846-7421 O Lead in Wipes – SW846 7420/3050B O Soil/Sludge – SW846-7421 O Lead in Soil – SW846 7420/3050B O Air – NIOSH 7105 O TCLP – SW846-1311/6010B O Air – NIOSH 7105			 C Elements in Air – NIOSH 7300 Wipe/Soil – SW846-6010B C Effluent – SW846-6010B Welding Fume – NIOSH 7300M C RespirableCrystalline Silica NIOSH 7500 / OSHA 142 C Stribulation Silica NIOSH 0500 – Total Particulates C NIOSH 0600 – Respirable Particulates 				
Total Number of S	amples Su	bmitted:	38	Positive	e Stop: 🔳 🗋	YES	□ NO
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**TAT's are in Business Days Eurofins J3 Resources, Inc	rather than Hours (i.e.1 Day TAT = End	of Next Business	s Day)			Deve

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J3 Resources

Project Name WY Rollingstock Inspections

Project Number 215WY001 - UPe

SAMPLE IDENTIFICATION

Page ____ of ____

SAMPLE NUMBER	SAMPLE LOCATION / MATERIAL	VOLUME/CONDITION
CHE-UP928-160821-001	White pipe wrap	
CHE-UP928-160821-002	Interior pipes	
CHE-UP928-160821-003		
CHE-UP928-160821-004	White/black elec. wire wrap	
CHE-UP928-160821-005	Interior lamps and wires throughout	
CHE-UP928-160821-006		
CHE-UP928-160821-007	Fireboard	
CHE-UP928-160821-008	Interior elec. boxes, rear section and behind cab	
CHE-UP928-160821-009		
CHE-UP928-160821-010	Gaskets	
CHE-UP928-160821-011	Interior tanks and piping	
CHE-UP928-160821-012		
CHE-UP928-160821-013	Penetration gasket	
CHE-UP928-160821-014	Exterior penetrations	
CHE-UP928-160821-015		
CHE-UP928-160821-016	Bakelite	
CHE-UP928-160821-017	Interior breaker boxes	
CHE-UP928-160821-018		
CHE-UP928-160821-019	Black window gasket	
CHE-UP928-160821-020	Exterior front and rear round windows	
CHE-UP928-160821-022	Bulb Insulators	
CHE-UP928-160821-023	Interior headlights	
CHE-UP928-160821-024		

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J3 Resources

Project Name WY Rollingstock Inspections Project Number 215WY001 - UP

SAMPLE IDENTIFICATION

Page ____ of ____

	SAMPLE IDENTIFICATION	VOULBE
SAMPLE NUMBER	SAMPLE LOCATION / MATERIAL	VOLUME/CONDITION
CHE-UP928-160821-025	Gray transite	
CHE-UP928-160821-026	Interior bracing pieces	
CHE-UP928-160821-027		
CHE-UP928-160821-028	Black gasket	
CHE-UP928-160821-029	Interior pipe connections	
CHE-UP928-160821-030		
CHE-UP928-160821-031	Coating	
CHE-UP928-160821-032	Roof	
CHE-UP928-160821-033		
CHE-UP928-160821-034	Gasket	
CHE-UP928-160821-035	Roof, A/C access	
CHE-UP928-160821-036		
CHE-UP928-160821-037	Vinyl Flooring	
CHE-UP928-160821-038	Floor in cabin	
CHE-UP928-160821-039		
Comments/Special Instructions:	t	L · · · · · · · · · · · · · · · · · · ·

Eurofins J3 Resources, Inc. + 6110 West 34th Street + Houston, Texas 77092 + tel: 713-290-0221 + fax: 713-290-0248 Eurofins J3 Resources, Inc. + 3113 Red Bluff Road +Pasadena, Texas 77503 + tel: 713-290-0223 + fax: 713-290-0248 **Asbestos Chain of Custody**

EMSL Analytical, Inc. 1010 Yuma Street



Street: 6700 E. 50th Ave.

Company : Earth Services & Abatement, Inc.

EMSL Order Number (Lab Use Only):

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

Different 🖌 Same

FAX: (303) 741-1400

2221	06279
------	-------

City: Commerce City	/ State/Province: CO		ovince: CO	Zip/F	Postal Code: 80022			d States	
Report To (Name): Amar	nda Wozab			Telephone #: 303-991-1280					
Email Address: See sp	ecial instruc	tructions	5	Fax #: 303-991-1282 Purchase Order:					
Project Name/Number: 2				Plea	se Provide Results:	F.	AX 🖌	E-mai	l Mail
U.S. State Samples Take	en: Wyoming	3		Con	necticut Samples: 🗌] Comm	nerciał 📋	Reside	ential
Turnaround Time (') Opt	tions* – Please Chec	:k			
🗌 3 Hour 🔄 📋 6 Hour 🔄 24 Hour 🚺 48 Hour						6 Hour		leek	2 Week
*For TEM Air 3 hr through 6 hr	r, please call ah for this service	ead to schi Analysis (edule.*There is a pren completed in accordan	ium cl ce witi	harge for 3 Hour TEM AHI h EMSL's Terms and Con	ERA or EF ditions loc	PA Level II T/ cated in the A	AT. You Inalytical	will be asked to sign Price Guide.
PCM - Air Check if sa			<u>TEM – Air</u> 4-			TEM- D			
NIOSH 7400			AHERA 40 C	FR, P	art 763	🔲 Mici	rovac - AS	TM D 5	755
w/ OSHA 8hr. TWA			NIOSH 7402			🗌 Wip	oe - ASTM	D6480	
PLM - Bulk (reporting lin	nit)		🔲 EPA Level II			🗌 Car	rpet Sonica	ition (EF	PA 600/J-93/167)
PLM EPA 600/R-93/11	6 (<1%)		□ ISO 10312			Soil/Rock/Vermiculite			
			TEM - Bulk	<u>k</u>		PLM CARB 435 - A (0.25% sensitivity)			
Point Count				DB DB DLM CARB 435 - B (0.1% sensitivity			0.1% sensitivity)		
■ 400 (<0.25%) 🗌 1000	(<0.1%)		NYS NOB 198	3.4 (n	on-friable-NY)	TEM CARB 435 - B (0.1% sensitivity)			
Point Count w/Gravimetric			Chatfield SOF	P TEM CARB 435 - C (0.01% sensitiv			0.01% sensitivity)		
a 400 (<0.25%) b 1000	(<0.1%)		TEM Mass Ar	1 Mass Analysis-EPA 600 sec. 2.5			TEM Qual. via Filtration Technique		
NYS 198.1 (friable in I	NY)		TEM - Water: EF	EPA 100.2			Drop-N	Mount Technique	
NYS 198.6 NOB (non-	=		Fibers >10µm [] Wa	aste 🔲 Drinking	Other:			
□ NIOSH 9002 (<1%)			All Fiber Sizes [] Wa	aste 🗌 Drinking				
Check For Positive S	top – Clearl	y Identify	Homogenous G	oup	Filter Pore Size (A	ir Samp	ples):	0.8µm	□_0.45µm
Samplers Name: Joseph Kulm				amplers Signature:			_		
		Sample Descripti	ол			ne/Area (A A # (Bulk)	ir)	Date/Time Sampled	
CHE-UP928-160821-021 Black window g		ask	et			8/*	16/2021, 1000 AM		
	<u> </u>								

EMSL-Bill to:

If Bill to is Different note instructions in Comments**

Third Party Billing requires written authorization from third party Т

Client Sample # (s):
Relinquished (Client):

he Date: 8-26-2 Mu_{Date:} 26/2

Time: NYUS Time:

Total # of Samples:

Received (Lab): **Comments/Special Instructions:**

Room

Do Gravimetric reduction and point count as needed Send results to: robert.szynskle@esasite.com, amanda.wozab@esasite.com; patrick.mcgilvrey@esasite.com

Dral-

Page 1 of pages

EMSL Analytical, Inc. 1010 Yuma Street Denver, CO 80204 Tel/Fax: (303) 740-5700 / (303) 741-1400 http://www.EMSL.com / denverlab@emsl.com	EMSL Order: Customer ID: Customer PO: Project ID:	
Attention: Amanda Wozab	Phone:	(303) 339-3051
Earth Services & Abatement, Inc.	Fax:	
6700 E. 50th Ave.	Received Date:	08/26/2021 4:45 PM
Commerce City, CO 80022	Analysis Date:	08/30/2021
	Collected Date:	08/16/2021
Project: 215WY001, UP 928		

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

			Non-A	sbestos	<u>Asbestos</u>
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре
CHE-UP928-160821-02 1	BLACK WINDOW GASKET	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
222106279-0001					

Analyst(s)

Krystal Harris (1)

Henry Printz, TEM/PCM Laboratory Supervisor or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method") but augmented with procedures outlined in the 1993 ("final") version of the method. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Estimation of uncertainty is available on request.

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

Initial report from: 08/30/2021 17:01:28

Eurofins J3 Resources, Inc.

3113 Red Bluff Road Pasadena, Texas 77503 Phone: (713) 290-0223 – Fax: (832) 831-5669 *j3resources.com*



J3 Resources

<u>Lead in Paint Performed by</u> Flame AA – USEPA SW846 7420/3050B (Mod.)

Amanda Wozab Earth Services & Abatement, Inc. 6700 E. 50th Avenue Commerce City, CO 80022

	Order #:	JP211029247
	Project #:	215WY001
	Receipt Date:	26-Aug-2021
	Analysis Date:	30-Aug-2021
	Report Date:	30-Aug-2021
0.00		

WY Rollingstock Inspections-UP 928

SAMPLE ID	PAINT COLOR	LEAD CONCENTRATION (mg/kg)	LEAD CONCENTRATION (%)
CHE-UP928-160821-001L	Yellow	110000	11%
CHE-UP928-160821-002L	Gray	2100	0.21%

Reporting Limit = 50.0 mg/kg N/A = Not Applicable INS = Insufficient Sample Weight NS = Not Submitted

Analyst: Samantha Harrison

Scott Ward, Ph.D. Lab Director

This report relates only to the samples submitted. The analysis has been conducted according to the method(s) listed above. Blank corrections are not applied to data unless requested by the customer. This report is for the exclusive use of the addressed customer and shall not be reproduced except in full without written approval by Eurofins J3 Resources, Inc. (EJ3). EJ3 is an EPA NLLAP recognized lab by the AIHA-LAP, LLC ELLAP (Lab ID: 157714). Unless otherwise noted, all quality control samples performed within specifications established by the laboratory. The estimated accuracy is solely based on recovery data from internal laboratory control samples at the 95% confidence interval of the level of concern, derived from a 224.2 mg/kg lead in paint matrix reference material. The estimated accuracy does not account for uncertainty associated with the sampling process. Accuracy = +/-14%

J3 Oragon Sonly)



J3 Resources

Open Lab Fee

					1011				
Submitter Name:	Joseph Kulm	ulm		Bill to: Same					
Company:	Earth Services & Abatement, Ilc		Address:						
Address:	6700 E 50th Ave								
					City/State) <u> </u>		Zip:	
City/State: Con	mmerce City , (:0	Zip: ⁸⁰⁰²	2	1	15WY001			
City/State:	• •		and the second second second second states and the second	And a state of the state of the second state	nformati		(31.41)		
Project Name: WY	Rollingstock In	spectio	ons		Proje	ct Manager: Ama	anda Woz	ab	<u>, , , , , , , , , , , , , , , , , , , </u>
Project #: 215WY0					Telep	hone - Office/Ce	eli 402-57	8-685	8
Reports - Email Ad	dress: amanda	wozab	@esasite.com,	joseph	n.kuim@es	asite.com, robert	.szynskie	@esa	site.com
Invoice - Email Add	ress: same	<u> </u>			Noti	ication By: Em	nait: 🔳	Vert	pal: 🗆
Special Instructions	:								
· · · · ·		•	Turnaround	Times	- Pleas	e Select One			
Emergency*	<u> </u>			2 Day		3 Day		000000000	5 Day
					ESTOS				
PLM - Bulk	PCM -	Air	TEM - Air	TEN	A - Bulk	TEM - Water	TEM -	Dust	TEM/PLM Soil/Vermiculite/Ore
EPA 600/R-93/116 Visual Estimation (400 Point Count 0.2 1,000 Point Count 0 Gravimetric Reduct Matrix Reduction (+ NIOSH 9002 OSHA ID-191	25% O ISO 867 2.1% O OSHA II ion	7201 2	 ○ AHERA ○ NIOSH 7402 ○ ASTM D6281 ○ ISO 10312 ○ ISO 13794 	O Matri Redu O Qual	uction (<1%) ix uction (+/-) itative (+/-) p Mount	 ○ EPA 100.2 Drinking Water >10 µm fibers ≥0.5 µm fibers ○ EPA 100.2 Effluent / WW Received on ice: ○ Yes ○ No Temp: 	 ASTM Microva ASTM Wipe 600/J-9 Carpet Bulk Du Qualitat 	ac D6480 3/167 EPA ist	 ASTM 7521-TEM (+/-) ASTM 7521-TEM (<1%) CARB 435-Modified Soil – PLM Only (+/-) Vermiculite - TEM (+/-) Vermiculite-Cincinnati Erionite ID
			METALS				SI	ICA	/PARTICULATES
Flame	AA	Gr	aphite Furnace LEAD	AA -		ICP	X-R	ay Dif	fraction / Gravimetric
\Begin{aligned} & Lead in Paint SW846 7420/3050B \Colored Lead in Air NIOSH 7082 \Colored Lead in Air NIOSH 7082 \Colored Lead in Wipes SW846 7420/3050B \Colored Lead in Soil SW846 7420/3050B \Colored Lead in Soil SW846 7420/3050B \Colored Lead in Soil SW846 7420/3050B \Colored Colored Lead in Soil SW846 7420/3050B \Colored Colored Lead in Soil SW846 7420/3050B \Colored Colored Colored Lead in Soil SW846 7420/3050B \Colored Colored Colored Colored Lead in Soil SW846 7420/3050B \Colored Colored Colore		7421	 Elements in Air NIOSH 7300 Wipe/Soil - SW846-6010B Effluent - SW846-6010B Welding Fume - NIOSH 7300M NIOSH 0500 - Total Particulates NIOSH 0600 - Respirable Particulates 						
Total Number of	of Samples	Subm	itted: 2		Positive	e Stop:	YES		NO
				Sign	atures	-			
Relinquished By:	_ UM		FK	i. = -:		Date			Time:
Received By:	//				/	Date	e: 0/5	ðd	Time: <u>4.400</u>
Relinguished By:					C	Date	e: ''		Time:
									Time:

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Project Name WY Rollingstock Inspections

Project Number 215WY001 - UPm

SAMPLE IDENTIFICATION

Page ____ of ____

J3 Resources

CHE-UP928-160821-001L Yellow Main exterior CHE-UP928-160821-002L Gray Interior, roof, end exterior 	VOLUME/CONDITION
CHE-UP928-160821-002L Gray Interior, roof, end exterior	
Interior, roof, end exterior	

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Appendix 3 - Modified Sawyer Algorithm

Report Date09/07/2021Rolling Stock TypeLocomotive ShellRolling Stock NoUP 928

SAWYER ALGORITHM PRIORITY

Asbestos Potential Exposure and Priority Level Algorithm

ASpestos Potential Exposure and Prior	UP 928			
Exposure Area	Interior on pipes throughout	Interior, behind electronic boxes		
Asbestos Containing Material	White pipe wrap	Black Fireboard		
	CHE-UP928-160821-001 thru 003	CHE-UP928-160821-007 thru 009		
Sample Number Size	NA	NA		
Quantity	222 LF	10 SF		
MATERIAL CONDITION (MC)	3	1		
 0 =No damage, excellent condition 1 =Very minor damage, no visible debris 2 =Damage is evident, small area 3 =Damage is easily seen, some debris 4 =Damage is widespread, debris is common 5 =Most or all material is damaged, hanging, and / or found as debris throughout the area 				
BUILDING AGE (BA) 1 =>30 years old	1	1		
0 =15 - 30 years old -1 =<15 years old				
MATERIAL TYPE Pipe Covering (PC)	NA	NA		
1 =MAG/CAL Silicate -1 =Air Cell / paper				
Ceiling Plasters or Fireproofing (CP)	NA	NA		
-1 =Cementitious (Monocoat) 0 =Standard 1 ="Cotton Candy" texture				
WATER DAMAGE (WD)	0	0		
 0 =No water damage 1 =Small amount of damage can be seen; damage is localized rather than widespread 2 Another that widespread 				
2 =Good deal of water damage; widespread ROOF CHARACTERISTICS (RC)	-0.5	-0.5		
-0.5 =Sloped or Hipped -0.5 =Metal or Concrete 0.5 =Flat or Built-up	-0.5	-0.5		
EXPOSED SURFACE AREA (ESA)	4	4		
 0 =Material behind a permanent enclosure 2 =Material behind a lay-in ceiling or in open tunnel 4 =Material is exposed 				
ACCESSIBILITY (AC)	4	4		
0 =Totally inaccessible 1 =Can only reach with hands, ie. pipe chase 2 =An open tunnel or above a drop ceiling 3 =Exposed overall, but can't reach, ie. >10' high 4 =Material is out in the open and <10' high				
ACTIVITY AND MOVEMENT (A/M) 0 =No occupants enter the area	2	2		
1 =Area is accessed infrequently 2 =Area is accessed frequently				
WORK ENVIRONMENT (WE)	0.5	0.5		
-0.5 =Sedentary 0.5 =Non-sedentary				
SOUND AND MECHANICAL VIBRATIONS (SMV) 0.5 =Frequent or Constant -0.5 =No recognizable vibration	0.5	0.5		
AIR - PLENUM / AIR STREAM (AP) 0 =No air plenum or air flow	1	1		
1 =Air plenum or air flow exists				
VELOCITY (if Air Plenum = 1) (VEL) 0.25 =Recognizable by human feeling -0.25 =Non-recognizable by human feeling	-0.25	-0.25		
FLOW (if Air Plenum = 1) (FL) -0.25 =Constant, steady stream 0.25 =Impact, gusty flow	NA	NA		
FRIABILITY (F)	1	1		
 1 =Very hard to crumble under hand pressure 2 = Will crumble under a little hand pressure 3 =Extremely easy to crumble under light pressure 				
ASBESTOS CONTENT (ASB)	3	2		
0 =None <1% 1 =1% to 10% Asbestos 2 =11% to 50% Asbestos 3 =51% to 100% Asbestos				
Exposure Value	45.75	26.5		
B etter				
Rating	2	3		

SAWYER ALGORITHM PRIORITY

Asbestos Potential Exposure and Priori Asset Number UP 928 UP 928 Interior loose bracing pieces Interior pipe connections Exposure Area Asbestos Containing Material Gray transite Black gasket CHE-UP928-160821-025 thru 027 CHE-UP928-160821-028 thru 030 Sample Number NA Size NΔ Quantity 3 SF 1 LF MATERIAL CONDITION (MC) 1 1 0 =No damage, excellent condition 1 =Very minor damage, no visible debris 2 =Damage is evident, small area 3 =Damage is easily seen, some debris
4 =Damage is widespread, debris is common 5 =Most or all material is damaged, hanging, and / or found as debris throughout the area BUILDING AGE (BA) 1 1 1 =>30 years old 0 =15 - 30 years old -1 =<15 years old MATERIAL TYPE Pipe Covering (PC) NA NA 1 =MAG/CAL Silicate -1 =Air Cell / paper Ceiling Plasters or Fireproofing (CP) -1 =Cementitious (Monocoat) NA NA 0 =Standard 1 ="Cotton Candy" texture WATER DAMAGE (WD) 0 0 0 =No water damage 1 =Small amount of damage can be seen; damage is localized rather than widespread 2 =Good deal of water damage; widespread **ROOF CHARACTERISTICS (RC)** -0.5 -0.5 -0.5 =Sloped or Hipped -0.5 =Metal or Concrete 0.5 =Flat or Built-up **EXPOSED SURFACE AREA (ESA)** 4 4 0 =Material behind a permanent enclosure 2 =Material behind a lay-in ceiling or in open tunnel 4 =Material is exposed ACCESSIBILITY (AC) 4 4 0 =Totally inaccessible 1 =Can only reach with hands, ie. pipe chase 2 =An open tunnel or above a drop ceiling
3 =Exposed overall, but can't reach, ie. >10' high
4 =Material is out in the open and <10' high ACTIVITY AND MOVEMENT (A/M) 2 0 =No occupants enter the area 1 =Area is accessed infrequently 2 =Area is accessed frequently WORK ENVIRONMENT (WE) 0.5 0.5 -0.5 =Sedentary 0.5 =Non-sedentary SOUND AND MECHANICAL VIBRATIONS (SMV) 0.5 0.5 0.5 =Frequent or Constant -0.5 =No recognizable vibration AIR - PLENUM / AIR STREAM (AP) 1 1 0 =No air plenum or air flow 1 =Air plenum or air flow exists VELOCITY (if Air Plenum = 1) (VEL) -0.25 -0.25 0.25 =Recognizable by human feeling -0.25 =Non-recognizable by human feeling FLOW (if Air Plenum = 1) (FL) -0.25 =Constant, steady stream NA NA 0.25 =Impact, gusty flow FRIABILITY (F) 1 2 1 =Very hard to crumble under hand pressure 2 = Will crumble under a little hand pressure 3 =Extremely easy to crumble under light pressure **ASBESTOS CONTENT (ASB)** 2 2 0 =None <1% 1 =1% to 10% Asbestos 2 =11% to 50% Asbestos 3 =51% to 100% Asbestos **Exposure Value** 26.5 53 3 2 Rating

SAWYER ALGORITHM PRIORITY

Asbestos Potential Exposure and Priori	
Asset Number	UP 928
]	
	Roof
Exposure Area	
Asbestos Containing Material	Gray Coating
Sample Number	CHE-UP928-160821-031 thru 033
Size	NA
Quantity	620 SF
MATERIAL CONDITION (MC)	1
0 =No damage, excellent condition 1 =Very minor damage, no visible debris 2 =Damage is evident, small area 3 =Damage is easily seen, some debris 4 =Damage is widespread, debris is common 5 =Most or all material is damaged, hanging, and / or found as debris throughout the area BUILDING AGE (BA)	1
1 =>30 years old	i
0 = 15 - 30 years old -1 =<15 years old	
MATERIAL TYPE	
Pipe Covering (PC)	NA
1 =MAG/CAL Silicate -1 =Air Cell / paper	
Ceiling Plasters or Fireproofing (CP)	NA
-1 =Cementitious (Monocoat) 0 =Standard	
1 ="Cotton Candy" texture	
WATER DAMAGE (WD)	0
0 =No water damage 1 =Small amount of damage can be seen;	
damage is localized rather than widespread	
2 =Good deal of water damage; widespread ROOF CHARACTERISTICS (RC)	-0.5
-0.5 =Sloped or Hipped	-0.5
-0.5 =Metal or Concrete 0.5 =Flat or Built-up	
EXPOSED SURFACE AREA (ESA)	4
0 =Material behind a permanent enclosure	7
 2 =Material behind a lay-in ceiling or in open tunnel 4 =Material is exposed 	
ACCESSIBILITY (AC)	3
0 =Totally inaccessible 1 =Can only reach with hands, ie. pipe chase 2 =An open tunnel or above a drop ceiling 3 =Exposed overall, but can't reach, ie. >10' high 4 =Material is out in the open and <10' high	
ACTIVITY AND MOVEMENT (A/M)	1
0 =No occupants enter the area 1 =Area is accessed infrequently	
2 =Area is accessed frequently	
-0.5 =Sedentary	0.5
0.5 =Non-sedentary	
SOUND AND MECHANICAL VIBRATIONS (SMV)	0.5
0.5 =Frequent or Constant -0.5 =No recognizable vibration	
AIR - PLENUM / AIR STREAM (AP) 0 =No air plenum or air flow 1 =Air plenum or air flow exists	1
VELOCITY (if Air Plenum = 1) (VEL)	0.25
0.25 =Recognizable by human feeling -0.25 =Non-recognizable by human feeling	
FLOW (if Air Plenum = 1) (FL)	0.25
-0.25 =Constant, steady stream 0.25 =Impact, gusty flow	
FRIABILITY (F)	1
 1 =Very hard to crumble under hand pressure 2 = Will crumble under a little hand pressure 3 =Extremely easy to crumble under light pressure 	
ASBESTOS CONTENT (ASB)	1
0 =None <1% 1 =1% to 10% Asbestos	
2 =11% to 50% Asbestos	
3 =51% to 100% Asbestos	40
Exposure Value	12
Rating	4
	1