

COLORADO Department of Transportation

Office of the Chief Engineer 2829 W. Howard Place Denver, CO 80204-2305

January 22, 2020

Mr. Gabriel Cosyleon Environmental Program Manager/Ecologist – Region 2 Colorado Department of Transportation 1480 Quail Lake Loop Colorado Springs, CO 80906

RE: Asbestos and Lead-Based Paint Inspection Report for Bridge M-21-B located at US Highway 350 over Lone Tree Arroyo at MM 51.682 Southwest of Timpas, Colorado

Dear Mr. Cosyleon,

The Colorado Department of Transportation (CDOT) Environmental Project Coordinator (EPC) completed an asbestos and lead-based paint inspection at bridge M-21-B located at US Highway 350 over Otero Ditch at Mile Marker (MM) 51.682 southwest of Timpas, Colorado. The CDOT-EPC is a certified asbestos building inspector, certification # 13915.

On January 8, 2020 the CDOT-EPC performed the asbestos and lead-based paint inspection of the bridge. The bridge is approximately 84 feet in length by 30 feet in width and was constructed in 1937. The bridge is a concrete on I-beam structure with painted concrete guardrails and wing walls.

One suspect asbestos-containing material (ACM) was identified during the inspection. Two bulk samples of a black, fibrous tar-impregnated expansion joint material were collected from the northeast guardrail. The two bulk samples were non-detect for asbestos.

Two paints were sampled from the bridge structure. A white paint chip sample was collected from a concrete wing wall from the southeast of the bridge (sample M-21-B-LP01). This paint contains 6.1% lead and is considered a lead-based paint. A second paint sample was collected from a black paint, from beneath the deck off a metal girder (sample M-21-B-LP02). This paint contains 38.2% lead and is considered a lead-based paint.

As the lead-based paint was observed on a substrate other than metal, a composite sample of bridge components, including the black and white lead-based paints, was collected and submitted for Toxicity Characteristic Leaching Procedure (TCLP) analysis. The sample was collected to determine if the components of the bridge structure would

be considered as hazardous waste. The TCLP laboratory result for this bridge structure revealed a result below the reporting limit of less than 0.25 milligrams per liter (mg/l) of lead. The debris from the bridge is therefore classified as solid waste (and not hazardous waste) as the TCLP result was less than the regulatory limit for lead of 5.0 mg/l.

The bulk samples were submitted and analyzed by Polarized Light Microscopy (PLM) Analysis by Reservoirs Environmental, Inc. (Reservoirs). The paint chip samples were submitted and analyzed by Atomic Absorption Spectroscopy (AAS) / Atomic Emission Spectroscopy – Mass Spectrometry (AES-MS) by Reservoirs. The TCLP sample was analyzed by Reservoirs using Atomic Absorption Spectroscopy (AAS) / Atomic Emission Spectroscopy – Inductively Coupled Plasma (AES-ICP). Reservoirs is an accredited laboratory for the analysis of Industrial Hygiene and Environmental matrices by the National Voluntary Laboratory Accreditation Program (NVLAP), Lab Code 101896-0 for Transmission Electron Microscopy (TEM) and PLM analysis and the American Industrial Hygiene Association (AIHA), Lab ID 101533 - American Certificate #480.

The black and white paints located on the metal girders, concrete guardrails and wing walls are lead-based paints. If the paints will be disturbed by repair or removal activities, it is recommended that paint removal and waste disposal work be performed in accordance with 29 CFR 1926.62 and Section 250.04 of the 2017 CDOT Standard Specifications for Road and Bridge Construction Handbook. ACMs were not identified on the structure during the bridge inspection. Please contact (720) 582-0694 with any questions or concerns regarding this report.

Sincerely,

COLORADO DEPARTMENT OF TRANSPORTATION

Zi 5. Hagat

Tim Hagert Environmental Project Coordinator Certified Asbestos Building Inspector #13915

Attachments: Suspect Asbestos Bulk Sample Summary Table Paint Chip Sample Summary Table TCLP Sample Summary Table Laboratory Results Sample Location Drawing Photographic Log Inspector Certificate

Suspect Asbestos Bulk Sample Summary Table

Sample ID	Sample Location	Lab Results	Condition	Material Description	Material Location	Friability	Estimated Quantity
M-21-B- EJM01- 01	Northeast in guardrail	PLM ND	Good	Black, fibrous, tar-	Northeast	Non-	5 SF
M-21-B- EJM01- 02	Northeast in guardrail	PLM ND	Good	impregnated expansion joint material	guardrail	Friable	5 55

Notes: ND – No Asbestos Detected PLM – Polarized Light Microscopy SF – Square Feet

Paint Chip Sample Summary Table

Sample ID	Sample Description & Location	Analytical Result (%)
M-21-B-LP01	White paint collected from concrete wing wall. Sample collected from southeast wall.	<u>Lead</u> 6.1
M-21-B-LP02	Black paint taken from metal girder beneath bridge deck. Sample collected at northwest location.	<u>Lead</u> 38.2

Notes: BRL – Below Reporting Limit % - Percent Lead-Based Paint – 0.5% or greater

Toxicity Characteristic Leaching Procedure (TCLP) Sample Summary Table

Sample ID	Sample Description & Location	Analytical Result (mg/l)
M-21-B-TCLP01	Composite sample of bridge components including the black and white lead-based paints	<u>Lead</u> BRL

Notes: BRL – Below Reporting Limit (less than 0.25 mg/l)

mg/l – milligrams per liter Regulatory Level as Hazardous Waste (for Lead) – 5.0 mg/l or greater



January 15, 2020

Subcontractor Number:Laboratory Report:RES 453730-1Project #/P.O. #:22362.10.50Project Description:R2 and R4 bridges

Tim Hagert Colorado Dept. of Transportation (Denver) 2829 West Howard Place Denver CO 80204

Dear Tim,

Reservoirs Environmental, Inc. is an analytical laboratory accredited for the analysis of Industrial Hygiene and Environmental matrices by the National Voluntary Laboratory Accreditation Program (NVLAP), Lab Code 101896-0 for Transmission Electron Microscopy (TEM) and Polarized Light Microscopy (PLM) analysis and the American Industrial Hygiene Association (AIHA), Lab ID 101533 - Accreditation Certificate #480 for Phase Contrast Microscopy (PCM) analysis. This laboratory is currently proficient in both Proficiency Testing and PAT programs respectively.

Reservoirs Environmental, Inc. has analyzed the following samples for asbestos content as per your request. The analysis has been completed in general accordance with the appropriate methodology as stated in the attached analysis table. The results have been submitted to your office.

RES 453730-1 is the job number assigned to this study. This report is considered highly confidential and the sole property of the customer. Reservoirs Environmental, Inc. will not discuss any part of this study with personnel other than those of the client. The results described in this report only apply to the samples analyzed. This report must not be used to claim endorsement of products or analytical results by NVLAP or any agency of the U.S. Government. This report shall not be reproduced except in full, without written approval from Reservoirs Environmental, Inc. Samples will be disposed of after sixty days unless longer storage is requested. If you have any questions about this report, please feel free to call 303-964-1986.

Sincerely,

pence by William Spells

Jeanne Spencer President

RESERVOIRS ENVIRONMENTAL INC.

NVLAP Lab Code 101896-0

TABLE: PLM BULK ANALYSIS, PERCENTAGE COMPOSITION BY VOLUME

RES Job Number:	RES 453730-1
Client:	Colorado Dept. of Transportation (Denver)
Client Project Number / P.O.:	22362.10.50
Client Project Description:	R2 and R4 bridges
Date Samples Received:	January 13, 2020
Method:	EPA 600/R-93/116 - Short Report, Bulk
Turnaround:	Standard
Date Samples Analyzed:	January 14, 2020 - January 15, 2020

ND=None Detected TR=Trace, <1% Visual Estimate Trem/Act=Tremolite/Actinolite

Client	L	Sub	Asbestos Content	Non	
Sample Number	A Y Physical E Description	Sub Part	Mineral Visual Estimate	Asbestos Fibrous Components	Components
	E Description R	(%)	(%)	(%)	(%)
M-22-U-TR01-01	A Black resinous tar w/ tan granular material	100	ND	0	100
M-22-U-TR01-02	A Black resinous tar	20	ND	0	100
	B Black tar w/ tan granular material	30	ND	0	100
	C Tan granular material	50	ND	0	100
M-21-B-EJM01-01	A Black micaceous tar	100	ND	5	95
M-21-B-EJM01-02	A Black micaceous tar	100	ND	0	100
M-21-C-EJM01-02	A Brown felt	3	ND	65	35
	B Black tar	97	ND	0	100
M-21-C-EJM01-01	A Brown felt	10	ND	65	35
	B Black tar	90	ND	0	100
N-21-C-TR01-01	A Black tar	100	ND	0	100
N-21-C-TR01-02	A Black tar	100	ND	0	100

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

Puper Loran O. Murphy Piper-Lenore O. Murphy

Jandon Spells

Analyst

Analyst / Data QA

REILAB Reservoirs Environmental, Inc.

RES Job #: 453730

SUBMITTE	ED BY		INVOICE TO			INFORMATION	SERIES			
Company:	COLORADO DEPT. OF T	RANSPORTATION (DEN	Company:	COLORADO DEPT. OF TRANSPORTATION (DEN	Contact:	TIM HAGERT		1 STANDARD		
Address:	2829 WEST HOWARD PL	ACE	Address:	2829 WEST HOWARD PLACE	Phone:	(720) 582-0694		EM STANDARD EM STANDARD		
					Fax:					
	DENVER, CO 80204			DENVER, CO 80204	Cell:					
Project Num	ject Number and/or P.O. #: 22362.10.50 Final Data Deliverable Email Address:]				
Project Desc	oject Description/Location: R2 AND R4 BRIDGES TIM.HAGERT@STATE.CO.US (+ 1 ADDNL. CONTACTS)									

ASBESTOS LABORATORY HOURS: Weekdays: 7am - 7pm & Sat. 8am - 5pm				R	EQU	JESTED A	NA	LYSIS			VALID MAT	RIX	CODES	LAB NOTES
PLM / PCM / TEM DTL RUSH PRIORITY STANDARD								<u> </u>			Air = A		Bulk = B	
								ation			Dust = D		Food = F	
CHEMISTRY LABORATORY HOURS: Weekdays: 8am - 5pm			eld,			33,		ntific ntific			Paint = P		Soil = S	
Dust RUSH PRIORITY STANDARD			13794,Chatfie			kare), Multi Metal (7303, ∣uid, Non-Liquid), II Metals Scan		Jrable, 1-2), Listeria, S. aureus, Yeast & Mold, e Water, Drinking Water, cictic Acid, erococcus (+/- or Quantifi			Surface = SU		Swab = SW	
*PRIOR NOTICE REQUIRED FOR SAME DAY TAT		100	194,0			Meta iquid can), List Yeast rinkin (+/- o			Tape = T		Wipe = W	
Metals RUSH PRIORITY STANDARD		i tu ci	0 1379/			Multi Jon-L als S		eus, Y eus, Y ter, Dr Acid, ccus (tion	Drinking V	/ater	= DW	
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Organics* SAME DAY RUSH PRIORITY STANDARD	, r	435	1031			odw. (Liq.		(Cultura ited, S (State ') (), Lac	1	lden	**ASTM E1792 appro	ved w	vipe media only**	
MICROBIOLOGY LABORATORY HOURS: Weekdays: 8am - 5pm	0	AKB	ISO			er, Fc), pH Scar	(0)	nella (6 s - Plate E.coli (; iication w/ID),		ulate				
Viable Analysis** PRIORITY STANDARD	C 1	μ, c	, witc 402, K+/-			. Wati twar∈ ume	, TSS	mone ns/E. D, w.		artic				
**TAT DEPENDENT ON SPEED OF MICROBIAL GROWTH	ò	Kepo	SH 7 SH 7 SH 7	4		Vaste Fooc ling F	mine	s, Sal bolifor liforn (wo/		old, F				
Medical Device Analysis RUSH STANDARD	5	Long Repol	, NIC Vate	/HSC	e	Veld, V	oheta	ccillus soli/C nt, Co tr, +/-,	LAL	Ň Ň				
Mold Analysis RUSH PRIORITY STANDARD		ਦ ਵੇ	ji ji ji	00B, (pirab	(s) Pb 7420 ste Wate can, We	hamp	r, Ba 7, E.4 Cour Wate ioal C	rden	ap, Bi	ea			
Mold Analysis RUSH PRIORITY STANDARD **Turnaround times establish a laboratory priority, subject to laboratory volume and are not		A (L)	A, (+/ 2uant Drin	٨, 740	, Res	alyte 7082 , Wat A 8 S	- Met	bacte 57:H Plate king icrob	Siobu	re Tra	e (L) / Area			
guaranteed. Additional fees apply for afterhours, weekends and holidays.**	101	PLM - Short Repo	- or C Vater	400/	Total	8-Ar nly (200.8 RCR	lics	npylo oli O1 obic F ole M	AL-1	- Spo	me (I			
Special Instructions:	77			PCM - 7	DUST -	METAL Lead O 3020A TCLP	ORGANICS	Campy E.coli C Areobid Non-Dr Viable I	MEDIC	- GD	Volu	ode		Laboratory Analysis
								Viables	E S	ž	mple	utrix O	Date Collected	Instructions
Client Sample ID Number (Sample ID's must be unique)	1	ASB	ESTO)S	CI	HEMISTR	Y	MICROBIO	LOGY	1	Sarr	Ř	mm/dd/yy	
1 M-22-U-TR01-01	>	X										В		
2 M-22-U-TR01-02	>	X		ļļ					ļļ			В		
3 M-21-B-EJM01-01)	X		ļ					ļļ.			В		
4 M-21-B-EJM01-02)	X		ļ					ļļ.			В		
5 M-21-C-EJM01-02)	X		ļļ					ļļ			В		
6 M-21-C-EJM01-01	>			ļļ					ļļ			В		
7 N-21-C-TR01-01	>								ļļ			В		
8 N-21-C-TR01-02	>	X							ļļ			В		
9 M-22-U-LP01	<u> </u>					X			ļļ			P		
10 M-22-U-LP02	<u> </u>					X			ļļ			P		
11 M-22-Y-LP01	<u> </u>					X			ļļ			P		
12 M-22-Y-LP02				: :		X			: :			P		
13 M-21-J-LP01	<u> </u>			÷		·····			÷	+		· · · · · ·		

REI will analyze incoming samples based on information received and will not be responsible for errors or omissions in calculations resulting from the inaccuracy of original data. By signing, client/company representative agrees that submission of the following samples for requested analysis as indicated on this Chain of Custody shall constitute an analytical services agreement with payment terms of NET 30 days. Failure to comply with payment terms may result in a 1.5% monthly interest surcharge.

Relinquished By:	mE Wer	TIM HAGERT	Date/Time: 01/13/2020 12:56:27	Sample Condition: ACCEPTABLE - INTACT
Received By:	All	HANNA MARTI	Date/Time: 01/13/2020 12:56:27	Carrier: HAND
P:(303) 964-1986			5801 Logan St. Suite 100. Denver. CO 80216	1-866-RESI-ENV

LAB NOTES

VALID MATRIX CODES

Bulk = B

Air = A



Submitted By: COL

RELLAB Reservoirs Environmental, Inc.		ਹੰ					titica.			Dust = D		Food = F	
	1), ,Chatfield,			7303		k Mold k Mold Wate Quan			Paint = P		Soil = S	
		ç, ç,			etal (id),		ister sst & sing ¹ or C			Surface = SU		Swab = SW	
		itifiec 3794			ilti Ma -Liqu Scar		1-2), Listeria, s, Yeast & Mold, , Drinking Water, d, us (+/- or Quantif		_	Tape = T		Wipe = W	
		or Quantified), 12, ISO 13794,(.), Multi Metal (7303, , Non-Liquid), etals Scan		ile, ' irreu ater occ		atior	Drinking	Water	r = DW	
		4 or 0			vare quid		Ilturab , S. au ate W Lactic nteroc		ntific	Waste V	Vater :	= WW	
	3 435	ac (+) 0 103			, Food PH (Li can, Fu		こ す あ 、 血		e Ide	**ASTM E1792 appr	oved	wipe media only**	
Res Job#: 453730 Submitted By: COLORADO DEPT. OF TRANSPORTATION (DENVER)	- Short Report, Long Report, CARE	TEM - AHERA, (+/- or Quantified), Microvac (+/- c Wipe (+/- or Quantified), NIOSH 7402, ISO 10312	s Water, Drinking Water, Bulk +/- - 7400A, 7400B, OSHA	- Total, Respira	2 - Analyte(SL PPO) 2019 (7082, 7420), Waste Water 200.8, Waste Water Foodware), RCRA 8 Scan, Welding Fume S	ORGANICS - Methamphetamine, TSS	Campylobacter, Bacillus, Salmonella (C. E. coli C1 57-147, E. coli/Coliforms - Plated Areobic Plate Court, Coliforms/E. coli (Sl Non-Drinking Water, +/-, Quantification), Vable Microbioal Count (wo/D, wID), E	MEDICAL - Bioburden, LAL	.D - Spore Trap, Bulk Mold, Particulat	olume (L) / Area	de		
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	PLM	TEM Wipe			EMISTRY		Viables			Sample V	- Matrix Co	Date Collected mm/dd/yy	
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REQUESTED ANALYSIS

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January 20, 2020

Subcontractor Number:Laboratory Report:RES 453730-2Project #/P.O. #:22362.10.50Project Description:R2 and R4 bridges

Tim Hagert Colorado Dept. of Transportation (Denver) 2829 West Howard Place Denver CO 80204

Dear Tim,

Reservoirs Environmental, Inc. is an analytical laboratory accredited for the analysis of Industrial Hygiene and Environmental matrices by the American Industrial Hygiene Association, Lab ID 101533 - Accreditation Certificate #480. The laboratory is currently proficient in both IHPAT & ELPAT programs respectively.

Reservoirs has analyzed the following sample(s) using Atomic Absorption Spectroscopy (AAS) / Atomic Emission Spectroscopy - Mass Spectrometry (ICP-MS) per your request. Reported sample results were not blank corrected. The analysis has been completed in general accordance with the appropriate methodology as stated in the analysis table. Results have been sent to your office.

RES 453730-2 is the job number assigned to this study. This report is considered highly confidential and the sole property of the customer. Reservoirs Environmental, Inc. will not discuss any part of this study with personnel other than those of the client. The results described in this report only apply to the samples analyzed. This report must not be used to claim endorsement of products or analytical results by NVLAP or any agency of the U.S. Government. This report shall not be reproduced except in full, without written approval from Reservoirs Environmental, Inc. Samples will be disposed of after sixty days unless longer storage is requested. If you have any questions about this report, please feel free to call 303-964-1986.

Sincerely,

Role & K

Robin Klover Vice President

RESERVOIRS ENVIRONMENTAL, INC

NVLAP Lab Code 101896-0 AIHA Certificate of Accreditation #480 LAB ID 101533

TABLE: I ANALYSIS: LEAD IN PAINT

RES Job Number:	RES 453730-2	
Client:	Colorado Dept. of Transportation (Denver)	
Client Project/P.O.:	22362.10.50	NA = Not Analyzed
Client Project Description:	R2 and R4 bridges	NR = Not Received
Date Samples Received:	January 13, 2020	ND = None Detected TR = Trace; <1 % Visual Estimate
Analysis Type:	REI CHEMISTRY SOP / USEPA SW846 3050B/7420-M	Trem-Act = Tremolite-Actinolite
Turnaround:	Standard	BAS = Below Analytical Sensitivity BRL = Below Reporting Limit
Date Samples Analyzed:	January 15, 2020	CBR = Cannot Be Read

Client ID Number	Reporting Limit (%)	LEAD CONCENTRATION (%)
M-22-U-LP01	0.0041	0.38
M-22-U-LP02	0.0036	38.5
M-22-Y-LP01	0.0046	1.9
M-22-Y-LP02	0.0041	0.27
M-21-J-LP01	0.0042	0.095
M-21-J-LP02	0.0042	0.89
M-21-B-LP01	0.0048	6.1
M-21-B-LP02	0.0045	38.2
M-21-C-LP01	0.0043	6.5
M-21-C-LP02	0.0040	6.9
N-21-F-LP01	0.0047	0.034
N-21-F-LP-02	0.0045	66.4
N-21-C-LP01	0.0040	6.9
N-21-C-LP02	0.0043	1.4

* Unless otherwise noted all quality control samples performed within specifications established by the laboratory

Adam Kelly 💋

Analyst/Data QA

REILAB Reservoirs Environmental, Inc.

RES Job #: 453730

SUBMITTE	ED BY		INVOICE TO			INFORMATION	SERIES			
Company:	COLORADO DEPT. OF T	RANSPORTATION (DEN	Company:	COLORADO DEPT. OF TRANSPORTATION (DEN	Contact:	TIM HAGERT		1 STANDARD		
Address:	2829 WEST HOWARD PL	ACE	Address:	2829 WEST HOWARD PLACE	Phone:	(720) 582-0694		EM STANDARD EM STANDARD		
					Fax:					
	DENVER, CO 80204			DENVER, CO 80204	Cell:					
Project Num	ject Number and/or P.O. #: 22362.10.50 Final Data Deliverable Email Address:]				
Project Desc	oject Description/Location: R2 AND R4 BRIDGES TIM.HAGERT@STATE.CO.US (+ 1 ADDNL. CONTACTS)									

ASBESTOS LABORATORY HOURS: Weekdays: 7am - 7pm & Sat. 8am - 5pm			REQUESTED ANALYSIS								VALID MAT	LAB NOTES		
PLM / PCM / TEM DTL RUSH PRIORITY STANDARD											Air = A		Bulk = B	
								ation			Dust = D		Food = F	
CHEMISTRY LABORATORY HOURS: Weekdays: 8am - 5pm			eld,			ġ,		ntific ntific			Paint = P		Soil = S	
Dust RUSH PRIORITY STANDARD			13794, Chatfie			rare), Multi Metal (7303, Iuid, Non-Liquid), Il Metals Scan		urable, 1-2), Listeria, . aureus, Yeast & Mold, e Water, Drinking Water, totic Acid, srococcus (+/- or Quantifi			Surface = SU		Swab = SW	
*PRIOR NOTICE REQUIRED FOR SAME DAY TAT		ied),	794,0			Meta), List Yeast rinkin (+/- o			Tape = T		Wipe = W	
Metals RUSH PRIORITY STANDARD		uantifiec	013			Multi Jon-L als S		e, 1-2) eus, Y ter, Dr ter, Dr Acid, ccus (tion		Drinking V	Vater	= DW	
		or Q	<u></u>			are), uid, N		rable - aure - Wate ctic A rococ	tifica		Waste Wa	ater =	WW	
Organics* SAME DAY RUSH PRIORITY STANDARD	435		1031			odw (Liq.		(Cultura ited, S (State ' on), Lac	lden	**/	ASTM E1792 appro	ved w	vipe media only**	
MICROBIOLOGY LABORATORY HOURS: Weekdays: 8am - 5pm	ARB	rovac	ISO			er, Fc Scar	~	nella ((s - Plate E.coli (; iication w/ID),	ulate					
Viable Analysis** PRIORITY STANDARD	Ö t	, Mic	'402, k +/-			Wate Ware ume	, TSS	mone ms/E. D, w.	artic					
**TAT DEPENDENT ON SPEED OF MICROBIAL GROWTH	ž	ified)	SH 7	4		Vaste Fooc ling F	mine	s, Sal colifor diforn (wo/	old, F					
Medical Device Analysis RUSH STANDARD	Long	Quantified),	, NIC Vate	/HSC	a f	Veld, v	oheta	cillus coli/C rt, -/-, r count	, LAL					
Mold Analysis RUSH PRIORITY STANDARD	T T	ō	ified) king'	0B, (pirab	7420 ste Wate can, We	ham	Pr, Ba 7, E.4 Cour Wate ioal C	rden ap, Bu	-	ea			
Mold Analysis RUSH PRIORITY STANDARD **Turnaround times establish a laboratory priority, subject to laboratory volume and are not	- Beb	A, (+)	Drin	۸, 740	, Res	7082 , Wa A 8 S	- Met	bacte 57:H Plate king icrob	3iobu re Tra		ne (L) / Area			
guaranteed. Additional fees apply for afterhours, weekends and holidays.**	PLM - Short	AHERA, (+/-	/- or C Vater	400/	Total	200.8 200.8	AICS	npylo oli O1 obicF ole M	AL - F	÷	me (l			
Special Instructions:	- v	- ∠	Wipe (+. Waste V	PCM - 7	DUST -	Lead O 3020A TCLP		Campy E.coli C Areobid Non-Dr Viable I	MEDIC.		Volu	Code		Laboratory Analysis
								Viables	Ξ ž		mple	trix	Date Collected	Instructions
Client Sample ID Number (Sample ID's must be unique)	/	ASBE	STO	S	CH	MISTRY	,	MICROBIO	LOGY		Sarr	Ma	mm/dd/yy	
1 M-22-U-TR01-01	X	(В		
2 M-22-U-TR01-02	X	(ļļ			В		
3 M-21-B-EJM01-01	X	(<u> </u>							ļļ			B		
4 M-21-B-EJM01-02	X	(<u> </u>							ļļ			B		
5 M-21-C-EJM01-02	X								ļ			В		
6 M-21-C-EJM01-01	X											В		
7 N-21-C-TR01-01	X								ļ			В		
8 N-21-C-TR01-02	X	(ļ			В		
9 M-22-U-LP01	_ <u>_</u>					X			ļ			Ρ		
10 M-22-U-LP02	_ <u>_</u>					X			ļ			Ρ		
11 M-22-Y-LP01						X						Ρ		
12 M-22-Y-LP02						X				1		Р		
13 M-21-J-LP01	<u> </u>					····^						·····		·

REI will analyze incoming samples based on information received and will not be responsible for errors or omissions in calculations resulting from the inaccuracy of original data. By signing, client/company representative agrees that submission of the following samples for requested analysis as indicated on this Chain of Custody shall constitute an analytical services agreement with payment terms of NET 30 days. Failure to comply with payment terms may result in a 1.5% monthly interest surcharge.

Relinquished By:	ni E Wer	TIM HAGERT	Date/Time: 01/13/2020 12:56:27	Sample Condition: ACCEPTABLE - INTACT
Received By:	HANNA MARTI Date/Time: 01/13/2020 12:5		Date/Time: 01/13/2020 12:56:27	Carrier: HAND
P:(303) 964-1986			5801 Logan St. Suite 100. Denver. CO 80216	1-866-RESI-ENV

LAB NOTES

VALID MATRIX CODES

Bulk = B

Air = A



Submitted By: COL

Number Numbr Numbr Numbr <th>REILAB Reservoirs Environmental, Inc.</th> <th></th> <th>τí</th> <th></th> <th></th> <th>-</th> <th></th> <th>tificat</th> <th></th> <th></th> <th>Dust = D</th> <th></th> <th>Food = F</th> <th></th>	REILAB Reservoirs Environmental, Inc.		τí			-		tificat			Dust = D		Food = F	
Res Job#: 453730 Value Wate WW Submitted By: COLORADO DEPT. OF TRANSPORTATION (DENVER) Image: Color of transport of		'	atfield			2303		ia, Mold Vate Nuan			Paint = P		Soil = S	
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Submitted By: COLORADO DEPT. OF TRANSPORTATION (DENVER) Image: Color of the second	Res Job#: 453730	CAR	2, ISC			ater, F re), p e Sc	ss	nella 5 Pla E.col ficatii w/ID		iculat				
Client Sample ID Number(Sample ID's must be unique)ASBESTOSCHEMISTRYMICROBIOLOGYØ2Omm/dd/yet14 M-21-J-LP02XXXXAPAA <th>Submitted By: COLORADO DEPT. OF TRANSPORTATION (DENVER)</th> <th>- Short Report , L</th> <th>- or Q ified),</th> <th>- 7400A,</th> <th>- Total, Respira S - Analvte(s)</th> <th>Dnly (7082, 7420, Was 200.8, Waste Water, Fo , RCRA 8 Scan, Welding</th> <th>3 ANICS - Methamphetamine, T</th> <th>ampylobacter, Bacillus, Sali coli 0157.HT, E.coli/Colifor reobic Plate Count, Colifor non-Drinking Water, 44, Qua table Microbioal Count (wol.)</th> <th>JICAL - Bioburden, LAL</th> <th>- I -</th> <th>olume (L) / Area</th> <th>bde</th> <th></th> <th></th>	Submitted By: COLORADO DEPT. OF TRANSPORTATION (DENVER)	- Short Report , L	- or Q ified),	- 7400A,	- Total, Respira S - Analvte(s)	Dnly (7082, 7420, Was 200.8, Waste Water, Fo , RCRA 8 Scan, Welding	3 ANICS - Methamphetamine, T	ampylobacter, Bacillus, Sali coli 0157.HT, E.coli/Colifor reobic Plate Count, Colifor non-Drinking Water, 44, Qua table Microbioal Count (wol.)	JICAL - Bioburden, LAL	- I -	olume (L) / Area	bde		
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17 M-21-C-LP01XP18 M-21-C-LP02XXP19 N-21-F-LP01XXP20 N-21-F-LP02XP21 N-21-C-LP01XP22 N-21-C-LP01XP23 H-19-C-TCLP01XB		PLM	Wipe			MISTRY	-	Viables			Sample V	d Matrix Co	Date Collected mm/dd/yy	
18 M-21-C-LP02 X X P P 19 N-21-F-LP01 X X P P 20 N-21-F-LP02 X X P P 21 N-21-C-LP01 X X P P 21 N-21-C-LP01 X X P P 22 N-21-C-LP02 X X P P 23 H-19-C-TCLP01 X X B P	14 M-21-J-LP02	PLM	Wipe			MISTRY	-	Viables			Sample /	÷	Date Collected mm/dd/yy	
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REQUESTED ANALYSIS

tion)



February 03, 2020

Subcontractor Number: Laboratory Report: RES 454456-1 Project #/P.O. #: 22362.10.50 **Project Description:**

R2 bridge inspections

Tim Hagert Colorado Dept. of Transportation (Denver) 2829 West Howard Place Denver CO 80204

Dear Tim.

Reservoirs has analyzed the following sample(s) using Atomic Absorption Spectroscopy (AAS) / Atomic Emission Spectroscopy - Inductively Coupled Plasma (AES-ICP) per your request. Reported sample results were not blank corrected. The analysis has been completed in general accordance with the appropriate methodology as stated in the analysis table. Results have been sent to your office.

RES 454456-1 is the job number assigned to this study. This report is considered highly confidential and the sole property of the customer. Reservoirs Environmental, Inc. will not discuss any part of this study with personnel other than those of the client. The results described in this report only apply to the samples analyzed. This report must not be used to claim endorsement of products or analytical results by NVLAP or any agency of the U.S. Government. This report shall not be reproduced except in full, without written approval from Reservoirs Environmental, Inc. Samples will be disposed of after sixty days unless longer storage is requested. If you have any questions about this report, please feel free to call 303-964-1986.

Sincerely,

Roli XK y Adam Kelly

Robin Klover Vice President

RESERVOIRS ENVIRONMENTAL, INC

NVLAP Lab Code 101896-0 AIHA Certificate of Accreditation #480 LAB ID 101533

TABLE: I ANALYSIS: LEAD VIA TCLP EXTRACTION

RES Job Number: Client:	RES 454456-1 Colorado Dept. of Transportation (Denver)	
Client Project/P.O.: Client Project Description: Date Samples Received: Analysis Type: Turnaround: Date Samples Analyzed:	22362.10.50 R2 bridge inspections January 22, 2020 REI CHEMISTRY SOP / USEPA SW846 1311/3011A/7420-M Standard January 28, 2020	NA = Not Analyzed NR = Not Received ND = None Detected TR = Trace; <1 % Visual Estimate Trem-Act = Tremolite-Actinolite BAS = Below Analytical Sensitivity BRL = Below Reporting Limit CBR = Cannot Be Read

Client ID Number	Reporting Limit (µg/L)	LEAD CONCENTRATION (µg/L)
M-22-U-TCLP01	250	270
M-22-Y-TCLP01	250	BRL
M-21-J-TCLP01	250	BRL
M-21-B-TCLP01	250	BRL
M-21-C-TCLP01	250	BRL
N-21-F-TCLP01	250	BRL
N-21-C-TCLP01	250	BRL

* Unless otherwise noted all quality control samples performed within specifications established by the laboratory

Adam Kelly /

Analyst/Data QA

REILAB Reservoirs Environmental, Inc.

RES Job #: 454456

SUBMITTE	D BY		INVOICE T	0	CONTACT	INFORMATION	SERIES
Company:	COLORADO DEPT. OF T	RANSPORTATION (DEN	Company:	COLORADO DEPT. OF TRANSPORTATION (DEN	Contact:	TIM HAGERT	-1 CHEM STANDARD
Address:	2829 WEST HOWARD PL	ACE	Address:	2829 WEST HOWARD PLACE	Phone:	(720) 582-0694	-2 CHEM STANDARD -3 PLM STANDARD
					Fax:		
	DENVER, CO 80204			DENVER, CO 80204	Cell:		
Project Num	ber and/or P.O. #:	22362.10.50			Final Data	Deliverable Email Address:	
Project Desc	ription/Location:	R2 BRIDGE INSPECTION	S		TIM.HAGEF	T@STATE.CO.US (+ 1 ADDNL. CONTACTS)	

ASBESTOS LABORATORY	′ HOURS: Weekdays: 7am - 7pm & Sat. 8am - 5pm			R	EQI	UESTED A	ANA	LYSIS			VALI	D MATI	RIX CC	DES		LAB NOTES
PLM / PCM / TEM	DTL RUSH PRIORITY STANDARD							ĉ			Air = A		÷	Bulk = E		
								cation			Dust = [)	<u> </u>	Food = I	-	
CHEMISTRY LABORATOR	Y HOURS: Weekdays: 8am - 5pm		ield,			33		old, tter, antific			Paint =	P	ļ	Soil = S		
Dust	RUSH PRIORITY STANDARD		Chatfield			Multi Metal (7303 Ion-Liquid), als Scan		steria, st & Mc ng Wa or Qua		S	urface =	SU	S	wab = S	W	
	*PRIOR NOTICE REQUIRED FOR SAME DAY TAT		ntified), 13794,0			Meta Jiquic Can		, List east inkin '+/- o			Tape =	Г	١	Vipe = V	V	
Metals	RUSH PRIORITY STANDARD		Quanti ISO 13			, Multi Me Non-Liqui tals Scan		, 1-2) er, Dr erd, cus (tion		Dri	inking W	ater = D	W		
			2, 13, 0,			are), uid, N Met		a (Culturable, 1-2), Listeria, lated, S. aureus, Yeast & Mold, bil (State Water, Drinking Water, ion), Lactic Acid,)), Enterococcus (+/- or Quantifi	tifica		W	aste Wa	ter = W	W		
Organics*	SAME DAY RUSH PRIORITY STANDARD	435	c (+/-			odw. (Liq.		Cultur ed, S. State), Lac Enter	Iden	**AST		2 approv	ved wipe	media	only**	
MICROBIOLOGY LABORA	TORY HOURS: Weekdays: 8am - 5pm	ARB	ISO			er, Fc), pH Scan	~	Plate Plate coli ((1D), 1	ulate		Aliquot)					
Viable Analysis**	PRIORITY STANDARD	С, т	, Mic 402,			20, Waste Water ater, Foodware), Welding Furme S	, TSS	none ms - ntifica D, w,	artic		r Aliq					
	**TAT DEPENDENT ON SPEED OF MICROBIAL GROWTH	Sepo	ntified), OSH 7 er, Bull			Waste Wa , Foodwar ding Fume	mine	Bacillus, Salmon E.coli/Coliforms - unt, Coliforms/E unt, -/-, Quantific ater, +/-, Quantific	ld, P		a pe					
Medical Device Analysis	RUSH STANDARD	Long	at Dia	√HSO	e	≷ #er. ≤	heta	oli/C oli/C t, Col ount	IK Mc		or Are					
		bort, L	or Qi fied), tina V	OB, C	oirabl	s) F 742 742 an,	dmp	r, Ba , E.c Coun Nater Dal C	den, p, Bu	g	idth(c					
Mold Analysis	RUSH PRIORITY STANDARD	Repo	∖, (+/- uanti Drink	, 740	Resp	e v e v	Met	acte 57:H7 57:H7 1ate (ting \ crobio	iobur e Tra	// Area	N × I					
	s establish a laboratory priority, subject to laboratory volume and are not	Short I	ERA or Q	A00	otal,	S - Analy nly (708 200.8, W RCRA 8	cs-	Campylobacter, E E.coli O157:H7, E Areobic Plate Coi Non-Drinking Wa Viable Microbioal	L-B	/(T) amr	uots)		s	8 \	þ	
	I. Additional fees apply for afterhours, weekends and holidays.**	_	= - + =	N - 74	5T - 1	METALS - An Lead Only (7 6020A, 200.8, TCLP, RCR/	ORGANICS-	Cam E.col Areo Non- Viabl	MEDICAI MOLD - S	Volum	r Aliq	apo	ainer	llect Id/yy	nm m	Laboratore Analysia
Special Instructions:		PLM	TEM Wipe Wast	PCM	DUST	ME Lea f02(Ř	Viables	MEDIC	mple \	Length(or Aliquots) x Width(or	Matrix Code	# of Containers	Date Collected mm/dd/yy	Time Collected hh:mm	Laboratory Analysis Instructions
Client Sample ID Number	(Sample ID's must be unique)	AS	BEST	os	С	HEMISTR	Y	MICROBIO	OGY	San	Len	Mat	# of	Da	μ	monuono
1 M-22-U-TCLP01						X				L		В				
2 M-22-Y-TCLP01						X				L		В				
3 M-21-J-TCLP01						X				L		В				
4 M-21-B-TCLP01						X						В				
5 M-21-C-TCLP01		Τ				X				Γ		В				
6 N-21-F-TCLP01		Τ				X				Γ		В	-			
7 N-21-C-TCLP01		Τ				X				Γ		В	-			
8 H-13-N-LP01		T				X				Γ		Р	-			
9 H-13-N-TR01-01		X								[В				
10 H-13-N-TR01-02		X								Γ		В	-			

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Relinquished By:	his las	TIM HAGERT	Date/Time: 01/22/2020 9:28:08	Sample Condition: ACCEPTABLE					
Received By:	aint	ANNEMARIE KIEFFER	Date/Time: 01/22/2020 9:28:08	Carrier: HAND					
P:(303) 964-1986		5801 Logan St, Suite 100, Denver, CO 80216 1-866-R							

M-21-B - sample locations

M-21-B-LP02

M-21-B-EJM01-01 M-21-B-EJM01-02

60 ft

M-21-B M-21-B-LP01

Legend M-21-B

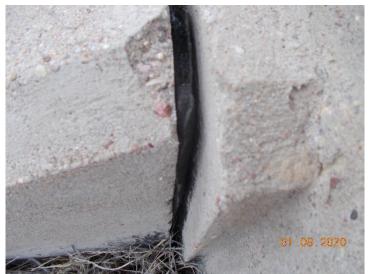
> Suspect Asbestos-Containing Material Bulk Sample Locations

Suspect Lead Paint Sample Locations

Google Earth



View of bridge M-21-B looking northeast.



Suspect asbestos-containing material M-21-B-EJM01. The expansion joint material is non-detect for asbestos.



Paint sample M-21-B-LP01. The white paint on concrete is considered lead-containing paint.



Paint sample M-21-B-LP02. The black paint on the metal girders is considered lead-based paint.



Colorado Department of Public Health and Environment

ASBESTOS CERTIFICATION*

This certifies that

Tim Hagert

Certification No.: 13915

has met the requirements of 25-7-507, C.R.S. and Air Quality Control Commission Regulation No. 8, Part B, and is hereby certified by the state of Colorado in the following discipline:

Building Inspector*

Issued: January 23, 2019

Expires: January 26, 2020

* This certificate is valid only with the possession of a current Division-approved training course certification in the discipline specified above.

Authorized APCD Representative

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SEAL