



**BRIDGE I-571N**  
HAZARDOUS MATERIALS SURVEY

BRIDGE INSPECTION AND SURVEY FOR PRESENCE OF  
ASBESTOS AND HEAVY METAL(S),  
JANUARY 2021

NDOT Hazardous Materials Section, Environmental Division  
1263 South Stewart Drive  
Carson City, NV 89712

## **EXECUTIVE SUMMARY**

The inspection (survey) for hazardous materials was conducted on bridge I-571N on January 21, 2021 by NDOT personnel from the Hazardous Materials section, of the Environmental Division. The bridges were evaluated for both asbestos containing materials (ACM) and heavy metals in coating materials. Twenty-five suspect asbestos samples were collected with results and considerations summarized below:

- No ACMs were identified.
- No coating materials were identified.

## **1.0 INTRODUCTION**

NDOT conducted an asbestos survey and screening for metals-based coating materials on the following bridge structure located in Clark county:

- I-571N (Toquop Wash, I-15 Northbound)

The survey was conducted on January 21, 2021 by NDOT personnel. Suspect Asbestos Containing Material (ACM) were identified and appropriately sampled. Coating materials, if present, were sampled and analyzed for the Resource Recovery and Conservation Act eight (RCRA 8) metals.

Bulk asbestos samples were analyzed by a National Voluntary Laboratory Accredited laboratory by polarized light microscopy (PLM). Metals analysis was conducted by a Nevada Certified Lab. The results of the laboratory analysis are attached as Appendix C and Appendix D, respectively.

## **2.0 BRIDGE DESCRIPTION**

Bridge I-571N was constructed in 1954 with improvements in 1989. The bridge is constructed of entirely of concrete. Components include terminal-end bridge stem wall/backwall, wing walls, parapet, piers/columns, engineered caps, arch beams, crossbeams, abutments, and concrete bridge deck overlain with asphaltic concrete. Brown fiberboard expansion joints were identified.

## **3.0 FIELD ACTIVITIES**

The survey was conducted by NDOT personnel, appropriately licensed Asbestos and Hazardous Emergency Response Act (AHERA) accredited asbestos inspectors. The survey was conducted in general accordance with the sample collection protocols established in EPA regulation 40 CFR 763. A summary of the survey activities performed is discussed below. Copies of AHERA certifications and licenses for NDOT personnel conducting the survey are provided as Appendix E.

### **3.1 Visual and Physical Assessment**

Survey activities began with a visual observation of the structures to identify homogeneous areas of suspect ACM and presence of coating materials. A physical assessment of each homogeneous area of suspect ACM was conducted to assess the friability and condition of the materials.

The homogeneous areas identified during the visual survey, the presence of coating materials, and sample identifiers are summarized in Table 1.

**Table 1 - Bridge Component Descriptions**

<b>Homogeneous Area</b>	<b>Description</b>	<b>Sample IDs</b>
A	Engineered cap	EC-1, EC-2, EC-3
B	Stem/back wall	STEM-1, STEM-2, STEM-3
C	Beam/arched truss	TRUS-1, TRUS-2, TRUS-3
D	Bridge deck	DECK-1, DECK-2, DECK-3
E	Wing walls	WW-1, WW-2, WW-3
F	Parapet	PARA-1, PARA-2, PARA-3
G	Abutment	ABT-1, ABT-2, ABT-3
H	Column/pier	COL-1, COL-2, COL-3
I	Brown fiberboard	EXP-1

notes: none

### **3.2 Sample Collection**

Based on results of the visual observation, bulk samples of suspect ACM and coating materials were collected in general accordance with AHERA sampling protocols. Representative samples of suspect materials were collected in each homogeneous area. Samples were placed in new sealable containers and labeled with unique sample numbers.

### **3.3 Sample Analysis**

Bulk samples of ACM were submitted under chain of custody to Asbestos TEM Laboratories for analysis by PLM. The percentage of asbestos, where applicable, was determined by microscopic visual estimation. A discussion of suspect ACM is included in Section 6.0.

## **4.0 PLAN REVIEW**

Plans were not reviewed and not considered necessary.

## **5.0 REGULATORY OVERVIEW**

### **5.1 Asbestos Regulations**

NESHAP (40 CFR Part 61, Subpart M) regulates asbestos fiber emissions and asbestos waste disposal practices. It also requires the identification and classification of existing building materials prior to demolition or renovation activity. Under NESHAP, asbestos-containing building materials are classified as either friable, Category I non-friable, or Category II non-friable ACM. Category I non-friable ACM includes packings, gaskets, resilient floor coverings and asphalt roofing products containing more than 1% asbestos. Category II non-friable ACM are any materials other than Category I materials that contain more than 1% asbestos.

Friable ACM, Category I and Category II non-friable ACM which are in poor condition and have become friable or which will be subjected to drilling, sanding, grinding, cutting or abrading and which could be crushed or pulverized during anticipated renovation or demolition activities are considered Regulated ACM (RACM).

## 5.2 Coating Material and Lead Based Paint Regulations

Lead-based paint (LBP) is defined as a surface coating or paint containing lead in excess of 0.5% (5000 mg/Kg) by weight (EPA Toxic Substance Control Act, Section 401).

Under EPA regulations heavy metal impacted wastes generated during abatement activities are handled as either a solid waste or a hazardous waste, depending on the concentration of each of the metal(s) and the method of coating material removal.

## 6.0 FINDINGS AND RECOMMENDATIONS

### 6.1 Suspect Asbestos Containing Materials

A total of 25 bulk samples were collected from nine homogeneous areas of suspect ACM. No Asbestos Containing Materials were identified.

A bridge Location Map is included in Appendix A. A photographic log showing homogenous areas is presented in Appendix B. Asbestos analytical results are included in Appendix C. A summary of the suspect ACMs identified is provided in Table 2.

**Table 2 – Summary of Suspected ACM**

Homogeneous Sampling Area	Sample Number	Material Description/Sample Location	Asbestos Results <sup>(1)</sup> , %	NESHAAP Category <sup>(2)</sup>	Friability <sup>(3)</sup>
A	EC-1	Engineered cap	Not Detected	N/A	non-friable
	EC-2				
	EC-3				
B	STEM-1	Stem/back wall	Not Detected	N/A	non-friable
	STEM-2				
	STEM-3				
C	TRUS-1	Beam/arched truss	Not Detected	N/A	non-friable
	TRUS-2				
	TRUS-3				
D	DECK-1	Bridge deck	Not Detected	N/A	non-friable
	DECK-2				
	DECK-3				
E	WW-1	Wing walls	Not Detected	N/A	non-friable
	WW-2				
	WW-3				
F	PARA-1	Parapet	Not Detected	N/A	non-friable
	PARA-2				
	PARA-3				
G	ABT-1	Abutment	Not Detected	N/A	non-friable
	ABT-2				
	ABT-3				
H	COL-1	Column/pier	Not Detected	N/A	non-friable
	COL-2				
	COL-3				
I	EXP-1	Brown fiberboard	Not Detected	N/A	friable

notes: (1) PLM unless otherwise noted.

(2) NESHAAP category I, category II, RACM, or (N/A) not applicable.

(3) Friable materials are those that, when dry, may be crumbled, pulverized or reduced to powder by hand pressure.

*Additional suspect materials could exist within the structures in areas not accessible to the inspector at the time of the survey. Should suspect materials other than those identified during this survey be uncovered during the renovation/demolition process, those materials should be assumed to be ACM until sampling and analysis can confirm or refute this assumption.*

## **6.2 Coating Materials**

No coating materials were identified.

## **6.3 Recommendations**

No ACMs were identified, no further actions are required at this time.

**Appendix A**  
**Bridge Location Map**

Bridge I-571N  
Toquop Wash, I-15 Northbound  
Clark County, Nevada





**Appendix B**  
**Bridge Photo Log**

**PHOTOGRAPHIC DOCUMENTATION**

**NDOT Hazardous Materials Survey  
Bridge I-571 N  
I-15  
Clark County, Nv**

**PHOTO 1**

**DATE:**  
1/21/2021

**DIRECTION:**  
South

**TAKEN BY:**  
Brian Reed

**DESCRIPTION:**  
Bridge I-571  
North.



**PHOTO 2**

**DATE:**  
1/21/2021

**DIRECTION:**  
South

**TAKEN BY:**  
Brian Reed

**DESCRIPTION:**  
Support columns,  
abutment, and  
parapet.





**PHOTOGRAPHIC DOCUMENTATION**

**NDOT Hazardous Materials Survey  
Bridge I-571 N  
I-15  
Clark County, Nv**

**PHOTO 3**

**DATE:**  
1/21/2021

**DIRECTION:**  
East

**TAKEN BY:**  
Brian Reed

**DESCRIPTION:**  
Stemwall and  
trusses.



**PHOTO 4**

**DATE:**  
1/21/2021

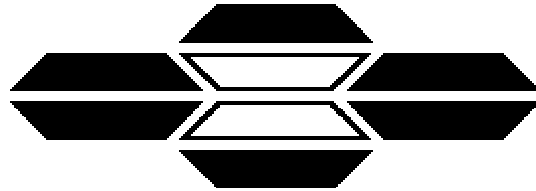
**DIRECTION:**  
West

**TAKEN BY:**  
Brian Reed

**DESCRIPTION:**  
Parapet and  
mainlane.



**Appendix C**  
**Asbestos Sample(s)**  
**Analytical Results**



**ASBESTOS TEM LABORATORIES, INC.**

**EPA Method 600/R-93/116  
Polarized Light Microscopy  
Analytical Report**

**Report No. 143640**

1350 Freeport Blvd., Unit 104  
Sparks, NV 89431  
(775) 359-3377  
FAX (775) 359-2798

*Main Office Located At:*  
3431 Ettie Street Oakland, CA 94608  
Ph. (510) 704-8930 Fax (510) 704-8929

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ASBESTOS TEM LABORATORIES, INC



NVLAP Lab Code 200104-0

Jan-27-21

Robert Piekarz  
Nevada Department of Transportation  
1263 South Stewart Street  
Carson City, NV 89712

RE: LABORATORY JOB # 9092-00053  
Polarized light microscopy analytical results for 25 bulk sample(s).  
Job Site: D1 I-15  
Job No.:  
Report No.: 143640

Enclosed please find the bulk material analytical results for one or more samples submitted for asbestos analysis. The analyses were performed in accordance with EPA Method 600/R-93/116 or 600/M4-82-020 for the determination of asbestos in bulk building materials by polarized light microscopy (PLM). Please note that while PLM analysis is commonly performed on non-friable and fine grained materials such as floor tiles and dust, the EPA method recognizes that PLM is subject to limitations. In these situations, accurate results may only be obtainable through the use of more sophisticated and accurate techniques such as transmission electron microscopy (TEM) or X-ray diffraction (XRD).

Prior to analysis, samples are logged-in and all data pertinent to the sample recorded. The samples are checked for damage or disruption of any chain-of-custody seals. A unique laboratory ID number is assigned to each sample. A hard copy log-in sheet containing all pertinent information concerning the sample is generated. This and all other relevant paper work are kept with the sample throughout the analytical procedures to assure proper analysis.

Each sample is opened in a class 100 HEPA negative air hood. A representative sampling of the material is selected and placed onto a glass microscope slide containing a drop of refractive index oil. The glass slide is placed under a polarizing light microscope where standard mineralogical techniques are used to analyze and quantify the various materials present, including asbestos. The data is then compiled into standard report format and subjected to a thorough quality assurance check before the information is released to the client.

Please note all samples will be held for 3 months from the date of receipt unless otherwise requested by client.

Sincerely Yours,

Laboratory Analyst  
ASBESTOS TEM LABORATORIES, INC.

--- These results relate only to the samples tested and must not be reproduced, except in full, with the approval of the laboratory. This report must not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. ---



NVLAP Lab Code 200104-0

# POLARIZED LIGHT MICROSCOPY ANALYTICAL REPORT

EPA Method 600/R-93/116 or 600/M4-82-020

Page: 1 of 3

Contact: Robert Piekarz	Samples Indicated: 25	Report No. <b>143640</b>
Address: Nevada Department of 1263 South Stewart Street Carson City, NV 89712	Reg. Samples Analyzed: 25	Date Submitted: Jan-22-21
	Split Layers Analyzed: 0	Date Reported: Jan-27-21
	Job Site / No. D1 I-15	

SAMPLE ID	ASBESTOS % TYPE	OTHER DATA	DESCRIPTION
		1) Non-Asbestos Fibers 2) Matrix Materials 3) Date/Time Collected 4) Date Analyzed	FIELD LAB
EC-1 Lab ID # 9092-00053-001	None Detected	1) None Detected 2) 99-100% Qtz, Calc, Opq	Grey concrete - eng cap
		3) 1-21-21 4) Jan-27-21	Concrete-Grey
EC-2 Lab ID # 9092-00053-002	None Detected	1) None Detected 2) 99-100% Qtz, Calc, Opq <i>Fib. Op. Prop. Same as in</i>	Grey concrete - eng cap
		3) 1-21-21 4) Jan-27-21	Concrete-Grey
EC-3 Lab ID # 9092-00053-003	None Detected	1) None Detected 2) 99-100% Qtz, Calc, Opq <i>Fib. Op. Prop. Same as in</i>	Grey concrete - eng cap
		3) 1-21-21 4) Jan-27-21	Concrete-Grey
STEM-1 Lab ID # 9092-00053-004	None Detected	1) None Detected 2) 99-100% Qtz, Calc, Opq <i>Fib. Op. Prop. Same as in</i>	Grey concrete - stem wall
		3) 1-21-21 4) Jan-27-21	Concrete-Grey
STEM-2 Lab ID # 9092-00053-005	None Detected	1) None Detected 2) 99-100% Qtz, Calc, Opq <i>Fib. Op. Prop. Same as in</i>	Grey concrete - stem wall
		3) 1-21-21 4) Jan-27-21	Concrete-Grey
STEM-3 Lab ID # 9092-00053-006	None Detected	1) None Detected 2) 99-100% Qtz, Calc, Opq <i>Fib. Op. Prop. Same as in</i>	Grey concrete - stem wall
		3) 1-21-21 4) Jan-27-21	Concrete-Grey
TRUS-1 Lab ID # 9092-00053-007	None Detected	1) None Detected 2) 99-100% Qtz, Calc, Opq <i>Fib. Op. Prop. Same as in</i>	Grey concrete - truss
		3) 1-21-21 4) Jan-27-21	Concrete-Grey
TRUS-2 Lab ID # 9092-00053-008	None Detected	1) None Detected 2) 99-100% Qtz, Calc, Opq <i>Fib. Op. Prop. Same as in</i>	Grey concrete - truss
		3) 1-21-21 4) Jan-27-21	Concrete-Grey
TRUS-3 Lab ID # 9092-00053-009	None Detected	1) None Detected 2) 99-100% Qtz, Calc, Opq <i>Fib. Op. Prop. Same as in</i>	Grey concrete - truss
		3) 1-21-21 4) Jan-27-21	Concrete-Grey
DECK-1 Lab ID # 9092-00053-010	None Detected	1) None Detected 2) 99-100% Qtz, Calc, Opq <i>Fib. Op. Prop. Same as in</i>	Grey concrete - bridge deck/ moralone(?)
		3) 1-21-21 4) Jan-27-21	Concrete-Grey

Limit of quantitation of method is estimated to be 1% asbestos using a visual area estimation technique. Split samples are inhomogeneous.

Laboratory Analyst   
Greg Hanes



NVLAP Lab Code 200104-0

# POLARIZED LIGHT MICROSCOPY ANALYTICAL REPORT

EPA Method 600/R-93/116 or 600/M4-82-020

Contact: Robert Piekarz	Samples Indicated: 25	Report No. <b>143640</b>
Address: Nevada Department of 1263 South Stewart Street Carson City, NV 89712	Reg. Samples Analyzed: 25	Date Submitted: Jan-22-21
	Split Layers Analyzed: 0	Date Reported: Jan-27-21
Job Site / No. D1 I-15		

SAMPLE ID	ASBESTOS % TYPE	OTHER DATA 1) Non-Asbestos Fibers 2) Matrix Materials 3) Date/Time Collected 4) Date Analyzed	DESCRIPTION
			FIELD LAB
DECK-2 Lab ID # 9092-00053-011	<b>None Detected</b>	1) None Detected 2) 99-100% Qtz, Calc, Opq <i>Fib. Op. Prop. Same as in</i> 3) 1-21-21                      4) Jan-27-21	Grey concrete - bridge deck/ moralone(?)
			Concrete-Grey
DECK-3 Lab ID # 9092-00053-012	<b>None Detected</b>	1) None Detected 2) 99-100% Qtz, Calc, Opq <i>Fib. Op. Prop. Same as in</i> 3) 1-21-21                      4) Jan-27-21	Grey concrete - bridge deck/ moralone(?)
			Concrete-Grey
WW-1 Lab ID # 9092-00053-013	<b>None Detected</b>	1) None Detected 2) 99-100% Qtz, Calc, Opq <i>Fib. Op. Prop. Same as in</i> 3) 1-21-21                      4) Jan-27-21	Grey concrete - wing wall
			Concrete-Grey
WW-2 Lab ID # 9092-00053-014	<b>None Detected</b>	1) None Detected 2) 99-100% Qtz, Calc, Opq <i>Fib. Op. Prop. Same as in</i> 3) 1-21-21                      4) Jan-27-21	Grey concrete - wing wall
			Concrete-Grey
WW-3 Lab ID # 9092-00053-015	<b>None Detected</b>	1) None Detected 2) 99-100% Qtz, Calc, Opq <i>Fib. Op. Prop. Same as in</i> 3) 1-21-21                      4) Jan-27-21	Grey concrete - wing wall
			Concrete-Grey
PARA-1 Lab ID # 9092-00053-016	<b>None Detected</b>	1) None Detected 2) 99-100% Qtz, Calc, Opq <i>Fib. Op. Prop. Same as in</i> 3) 1-21-21                      4) Jan-27-21	Grey concrete - parapet
			Concrete-Grey
PARA-2 Lab ID # 9092-00053-017	<b>None Detected</b>	1) None Detected 2) 99-100% Qtz, Calc, Opq <i>Fib. Op. Prop. Same as in</i> 3) 1-21-21                      4) Jan-27-21	Grey concrete - parapet
			Concrete-Grey
PARA-3 Lab ID # 9092-00053-018	<b>None Detected</b>	1) None Detected 2) 99-100% Qtz, Calc, Opq <i>Fib. Op. Prop. Same as in</i> 3) 1-21-21                      4) Jan-27-21	Grey concrete - parapet
			Concrete-Grey
ABT-1 Lab ID # 9092-00053-019	<b>None Detected</b>	1) None Detected 2) 99-100% Qtz, Calc, Opq <i>Fib. Op. Prop. Same as in</i> 3) 1-21-21                      4) Jan-27-21	Grey concrete - abutment
			Concrete-Grey
ABT-2 Lab ID # 9092-00053-020	<b>None Detected</b>	1) None Detected 2) 99-100% Qtz, Calc, Opq <i>Fib. Op. Prop. Same as in</i> 3) 1-21-21                      4) Jan-27-21	Grey concrete - abutment
			Concrete-Grey

Limit of quantitation of method is estimated to be 1% asbestos using a visual area estimation technique. Split samples are inhomogeneous.

Laboratory Analyst   
Greg Hanes





NVLAP Lab Code 200104-0

# POLARIZED LIGHT MICROSCOPY ANALYTICAL REPORT

EPA Method 600/R-93/116 or 600/M4-82-020

Contact: Robert Piekarz	Samples Indicated: 25	Report No. <b>143640</b>
Address: Nevada Department of 1263 South Stewart Street Carson City, NV 89712	Reg. Samples Analyzed: 25	Date Submitted: Jan-22-21
	Split Layers Analyzed: 0	Date Reported: Jan-27-21
Job Site / No. D1 I-15		

SAMPLE ID	ASBESTOS % TYPE	OTHER DATA	DESCRIPTION
		1) Non-Asbestos Fibers 2) Matrix Materials 3) Date/Time Collected 4) Date Analyzed	FIELD LAB
ABT-3 Lab ID # 9092-00053-021	None Detected	1) None Detected 2) 99-100% Qtz, Calc, Opq <i>Fib. Op. Prop. Same as in</i>	Grey concrete - abutment
		3) 1-21-21                      4) Jan-27-21	Concrete-Grey
COL-1 Lab ID # 9092-00053-022	None Detected	1) None Detected 2) 99-100% Qtz, Calc, Opq <i>Fib. Op. Prop. Same as in</i>	Grey concrete - columns
		3) 1-21-21                      4) Jan-27-21	Concrete-Grey
COL-2 Lab ID # 9092-00053-023	None Detected	1) None Detected 2) 99-100% Qtz, Calc, Opq <i>Fib. Op. Prop. Same as in</i>	Grey concrete - columns
		3) 1-21-21                      4) Jan-27-21	Concrete-Grey
COL-3 Lab ID # 9092-00053-024	None Detected	1) None Detected 2) 99-100% Qtz, Calc, Opq <i>Fib. Op. Prop. Same as in</i>	Grey concrete - columns
		3) 1-21-21                      4) Jan-27-21	Concrete-Grey
EXP-1 Lab ID # 9092-00053-025	None Detected	1) 40-60% Cellulose, Synthetics 2) 40-60% Opq	Brown fiberboard - expansion joints
		3) 1-21-21                      4) Jan-27-21	Fiberboard-Brown/Black
Lab ID #		1)	
		2)	
Lab ID #		3)	
		4)	
Lab ID #		1)	
		2)	
Lab ID #		3)	
		4)	
Lab ID #		1)	
		2)	
Lab ID #		3)	
		4)	

Limit of quantitation of method is estimated to be 1% asbestos using a visual area estimation technique. Split samples are inhomogeneous.

Laboratory Analyst   
Greg Hanes

Survey Data

Inspectors: Brian Reed/Robert Plekarz		Project Name: <u>Bridge 571 N/E</u>		Project Number:		Date Sampled: <u>1/21/21</u>					
Phone: 775-888-7892		Fax: 775-888-7104		Analysis Type: Asbestos		Air <u>BuR</u>					
Turn-A-Round Time:		Rush 24-Hour <u>2 Day</u>		Requests:		Test to First Positive:					
Lab #	Sample ID	Material Description	Sample Location	Verbal	Location of Materials	Quantity	Condition	Friable	Yes	No	Asbestos %
1	EC-1	grey concrete	Eng cap		Bridge 571 N/E	1	G	N			
2	EC-2		↓			1	G	N			
3	EC-3		↓			1	G	N			
4	stem-1		↓			1	G	N			
5	stem-2		↓			1	G	N			
6	stem-3		↓			1	G	N			
7	Truss-1		↓			1	G	N			
8	Truss-2		↓			1	G	N			
9	Truss-3		↓			1	G	N			
10	Pack-1		↓			1	G	N			

Comments/Additional Information

MATERIAL	CONDITION	UNITS	ASBESTOS %
GA - Gasket	G - Good	LF - Linear Feet	A - Asbestos
D - Debris	D - Damaged	SF - Square Feet	C - Chrysotile Asbestos
TSI - Thermal System Insulation	SD - Significant Damage	CF - Cubic Feet	NDA - No Asbestos Detected
R - Roof			Assumed ACM - No Samples Taken
DW - Drywall			
JC - Joint Compound			

Relinquished By: [Signature] Relinquished By: \_\_\_\_\_  
 Date/Time: 1/22/21 10:55 AM Date/Time: \_\_\_\_\_  
 Received By: Andrew Stroud ATEM Received By: \_\_\_\_\_

Survey Data

Inspectors: Brian Reed/Robert Piekarz		Project Name: <u>Bridge 571 NE</u>		Project Number:		Date Sampled: <u>1/21/21</u>		
Phone: 775-888-7892 Fax: 775-888-7104		Project Location: <u>971 - I-15</u>		Analysis Type: Asbestos		Air		
Turn-A-Round Time: Rush 24-Hour <u>2 Day</u>		Requests: Verbal		Fax		Test to First Positive:		
Lab #	Sample ID	Material Description	Sample Location	Location of Materials	Quantity	Condition	Friable	Asbestos %
1	Deck-2	grey concrete	Bridge Deck/Mainline	Bridge 571 NE	1	G	N	NB
2	Deck-3		↓		1	G	N	
3	WW-1		wingwall		1	G	N	
4	WW-2		↓		1	G	N	
5	WW-3		↓		1	G	N	
6	Para-1		Parapet		1	G	N	
7	Para-2		↓		1	G	N	
8	Para-3		↓		1	G	N	
9	Abt-1		Abutment		1	G	N	
10	Abt-2		↓		1	G	N	
Comments/Additional Information								
MATERIAL			CONDITION		UNITS		ASBESTOS %	
PI - Pipe Fitted Insulation	VT - Vinyl Tile	GA - Gasket	G - Good	LF - Linear Feet	A - Asbestos Asbestos			
PH - Pipe Run Insulation	M - Mastic	D - Debris	D - Damaged	SF - Square Feet	C - Chrysotile Asbestos			
D - Duct Insulation	CBM - Cove Base Mastic	TSI - Thermal System	SD - Significant Damage	CF - Cubic Feet	NDA - No Asbestos Detected			
TI - Tank Insulation	AT - Acoustical Tile	Insulation			Assumed ACM - No Samples Taken			
EJ - Expansion Joint	SA - Spray Acoustic	R - Roof						
BI - Boiler Insulation	W - Wall	DW - Drywall						
	P - Plaster	JC - Joint Compound						
Relinquished By: <u>BRW</u>			Relinquished By: _____					
Date/Time: <u>1/22/21 10:55</u>			Date/Time: _____					
Received By: _____			Received By: _____					

Survey Data

Inspectors: Brian Reed/Robert Piekarz		Project Name: Bridge 571 NE		Project Number:		Date Sampled: 1/21/21			
Phone: 775-888-7892		Fax: 775-888-7104		Analysis Type: Asbestos		Air			
Turn-A-Round Time: Rush		24-Hour (2 Day)		Requests: Verbal		Fax			
Lab #	Sample ID	Material Description	Sample Location	Location of Materials	Quantity	Condition	Friable	Yes	No
1	Abt-3	grey concrete	Abtment	Bridge 571 NE	1	G	N		
2	Col-1	↓	columns	↓	1	G	N		
3	Col-2				1	G	N		
4	Col-3				1	G	N		
5	Exp-1	Brown Fiberboard	expansion joints	↓	1	G	N		
6							1	G	N
7									
8									
9									
10									

Comments/Additional Information

MATERIAL	CONDITION	UNITS	ASBESTOS %
PF - Pipe Fitted Insulation PR - Pipe Run Insulation DI - Duct Insulation TI - Tan Insulation EJ - Expansion Joint BI - Boiler Insulation VT - Vinyl Tile M - Mastic CBM - Cove Base Mastic AT - Acoustical Tile SA - Spray Acoustic W - Wall P - Plaster GA - Gasket D - Debris TSI - Thermal System Insulation R - Roof DW - Drywall JC - Joint Compound	G - Good D - Damaged SD - Significant Damage	LF - Linear Feet SF - Square Feet CF - Cubic Feet	A - Asbestos C - Chrysotile Asbestos NDA - No Asbestos Detected Assumed ACM - No Samples Taken

Relinquished By: B. Reed Relinquished By: \_\_\_\_\_  
 Date/Time: 1/22/21 10:53 Date/Time: \_\_\_\_\_  
 Received By: \_\_\_\_\_ Received By: \_\_\_\_\_

**Appendix D**  
**Inspector Certifications**  
**and**  
**Licenses**



*mm*

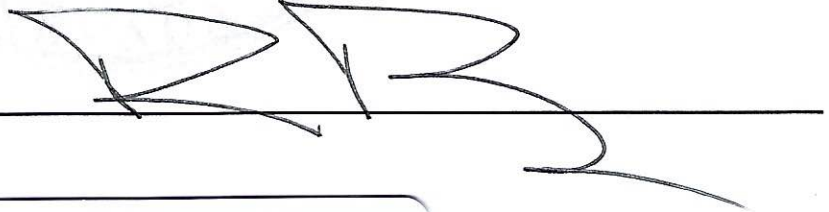
**STATE OF NEVADA**  
**DEPARTMENT OF BUSINESS AND INDUSTRY**  
**DIVISION OF INDUSTRIAL RELATIONS**  
**Occupational Safety and Health Administration**  
**Asbestos Control Program**

Certifies That Robert Piekarz  
State of Nevada-DOT  
is Licensed As Asbestos Abatement Consultant

License No. IJ-1049

Expiration Date 11/24/2021

Signature Of Licensee \_\_\_\_\_



**STATE OF NEVADA**  
**DEPARTMENT OF BUSINESS AND INDUSTRY**  
**DIVISION OF INDUSTRIAL RELATIONS**  
**Occupational Safety and Health Administration**  
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License No. IJ-1049      Expiration Date 11/24/2021

Signature Of Licensee \_\_\_\_\_

# M & C Environmental Training

**Asbestos Inspector**  
Refresher Training Course

**Robert Piekarz**

Has successfully completed the Asbestos Inspector Refresher course approved by the California Division of Occupational Safety and Health for purposes of certification required by Title 8, Article 2.7, Chapter 3.2, Section 341.16 and the accreditation required under the Toxic Substances Control Act, Title II. Conducted by M&C Environmental Training Inc., P.O. Box 6419, Concord, California Tel. # (510 499-5646

Course Approval Number: CA-003-06

Location: Concord, California

Expiration: November 24, 2021

Dates: November 24, 2020

Director of Training: John McGinnis



Certificate Number 48309 IR



# M & C Environmental Training

## Asbestos Management Planner Refresher Training Course

**Robert Piekarz**

Has successfully completed the Asbestos Management Planner Refresher course approved by the California Division of Occupational Safety and Health for purposes of certification required by Title 8, Article 2.7, Chapter 3.2, Section 341.16 and the accreditation required under the Toxic Substances Control Act, Title II. Conducted by M&C Environmental Training Inc., P.O. Box 6419, Concord, California. Tel. # (510) 499 - 5646

Course Approval Number: CA-003-08

Location: Concord, California

Dates: November 24, 2020

Director of Training: John McGinnis



Expiration: November 24, 2021

Certificate Number **48327 PR**