

### 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 in1989. 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.

Homogeneous Area	Description	Sample IDs
A	Engineered cap	EC-1, EC-2, EC-3
В	Stem/back wall	STEM-1, STEM-2, STEM-3
С	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
Н	Column/pier	COL-1, COL-2, COL-3
1	Brown fiberboard	EXP-1

### **Table 1 - Bridge Component Descriptions**

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.

Homogeneous Sampling Area	Sample Number	Material Description/Sample Location	Asbestos Results <sup>(1)</sup> , %	NESHAP Category <sup>(2)</sup>	Friability <sup>(3)</sup>
	EC-1				
А	EC-2	Engineered cap	Not Detected	N/A	non-friable
	EC-3				
	STEM-1				
В	STEM-2	Stem/back wall	Not Detected	N/A	non-friable
	STEM-3				
	TRUS-1				
С	TRUS-2	Beam/arched truss	Not Detected	N/A	non-friable
	TRUS-3				
	DECK-1				
D	DECK-2	Bridge deck	Not Detected	N/A	non-friable
	DECK-3				
	WW-1				
E	WW-2	Wing walls	Not Detected	N/A	non-friable
	WW-3				
	PARA-1				
F	PARA-2	Parapet	Not Detected	N/A	non-friable
	PARA-3				
	ABT-1				
G	ABT-2	Abutment	Not Detected	N/A	non-friable
	ABT-3				
	COL-1				
Н	COL-2	Column/pier	Not Detected	N/A	non-friable
	COL-3				
I	EXP-1	Brown fiberboard	Not Detected	N/A	friable
notes: (1) PLM unle	ss otherwise noted		•		

### Table 2 – Summary of Suspected ACM

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.

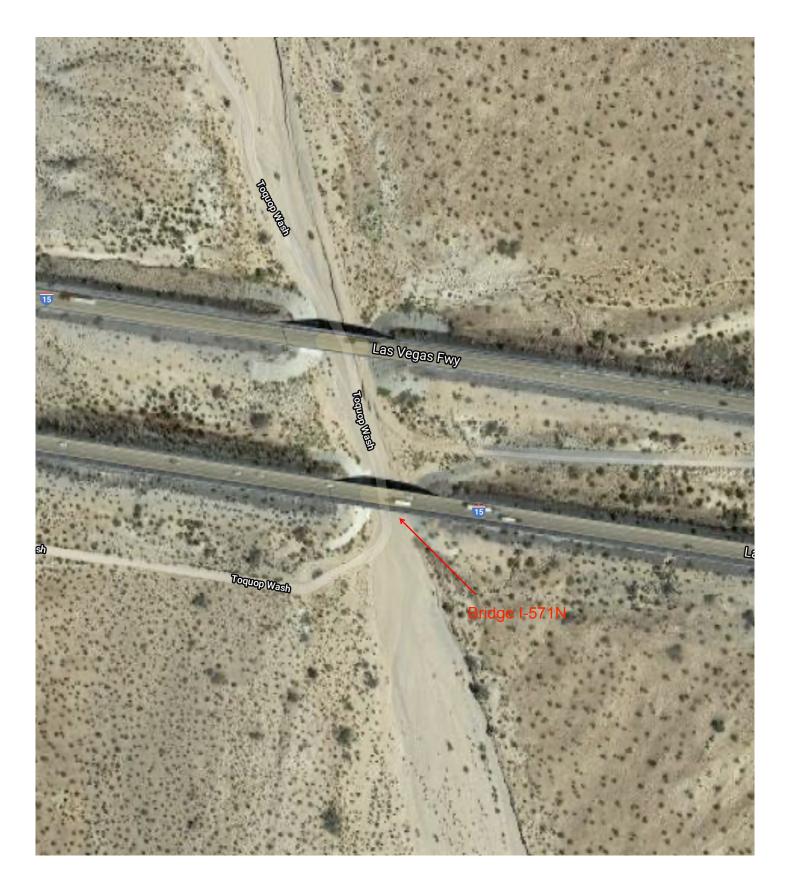
### 6.2 Coating Materials

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

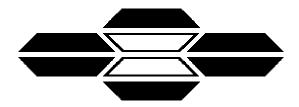


Appendix B Bridge Photo Log

	PHOTOGRAPHIC DOCUMENTATION
	NDOT Hazardous Materials Survey Bridge I-571 N
	Bridge I-571 N I-15
DUOTO 1	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	
<b>DESCRIPTION:</b> 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

<u>Report No. 143640</u>

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





Jan-27-21

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

RE: <u>LABORATORY JOB # 9092-00053</u> 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,

- J- 0/-

Laboratory Analyst ASBESTOS TEM LABORATORIES, INC.

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--- 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. ---

1350 Freeport Blvd. Unit 104

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### POLARIZED LIGHT MICROSCOPY ANALYTICAL REPORT

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

Page: <u>1</u> of <u>3</u>

			<u> </u>
Contact: Robert Piekarz Address: Nevada Department 1263 South Stewart Carson City, NV 89	t of Split Layers	es Analyzed: 25 S Analyzed: 0	Report No. <b>143640</b> Date Submitted:Jan-22-21Date Reported:Jan-27-21
SAMPLE ID	ASBESTOS % TYPE	OTHER DATA 1) Non-Asbestos Fibers 2) Matrix Materials 3) Date/Time Collected 4) Date Analyzed	DESCRIPTION FIELD LAB
EC-1	None Detected	1)None Detected 2)99-100% Qtz, Calc, Opq	Grey concrete - eng cap
Lab ID # 9092-00053-001		<b>3)</b> <sup>1-21-21</sup> <b>4)</b> Jan-27-21	Concrete-Grey
EC-2	None Detected	<ol> <li>None Detected</li> <li>99-100% Qtz, Calc, Opq</li> <li>Fib.Op.Prop. Same as in</li> </ol>	Grey concrete - eng cap
Lab ID # 9092-00053-002		<b>3)</b> 1-21-21 <b>4)</b> Jan-27-21	Concrete-Grey
EC-3	None Detected	<ol> <li>None Detected</li> <li>99-100% Qtz, Calc, Opq</li> <li>Fib.Op.Prop. Same as in</li> </ol>	Grey concrete - eng cap
Lab ID # 9092-00053-003		<b>3)</b> <sup>1-21-21</sup> <b>4)</b> Jan-27-21	Concrete-Grey
STEM-1	None Detected	<ol> <li>None Detected</li> <li>99-100% Qtz, Calc, Opq</li> <li>Fib.Op.Prop. Same as in</li> </ol>	Grey concrete - stem wall
Lab ID # 9092-00053-004		<b>3)</b> <sup>1-21-21</sup> <b>4)</b> Jan-27-21	Concrete-Grey
STEM-2	None Detected	<ol> <li>None Detected</li> <li>99-100% Qtz, Calc, Opq Fib. Op.Prop. Same as in</li> </ol>	Grey concrete - stem wall
Lab ID # 9092-00053-005		<b>3)</b> 1-21-21 <b>4)</b> Jan-27-21	Concrete-Grey
STEM-3	None Detected	<ol> <li>None Detected</li> <li>99-100% Qtz, Calc, Opq Fib. Op.Prop. Same as in</li> </ol>	Grey concrete - stem wall
Lab ID # 9092-00053-006		<b>3)</b> <sup>1-21-21</sup> <b>4)</b> Jan-27-21	Concrete-Grey
TRUS-1	None Detected	<ol> <li>None Detected</li> <li>99-100% Qtz, Calc, Opq</li> <li>Fib.Op.Prop. Same as in</li> </ol>	Grey concrete - truss
Lab ID # 9092-00053-007		<b>3)</b> 1-21-21 <b>4)</b> Jan-27-21	Concrete-Grey
TRUS-2	None Detected	1)None Detected 2)99-100% Qtz, Calc, Opq <i>Fib.Op.Prop. Same as in</i>	Grey concrete - truss
Lab ID # 9092-00053-008		<b>3)</b> 1-21-21 <b>4)</b> an-27-21	Concrete-Grey
TRUS-3	None Detected	1)None Detected 2)99-100% Qtz, Calc, Opq Fib.Op.Prop. Same as in	Grey concrete - truss
Lab ID # 9092-00053-009		<b>3)</b> <sup>1-21-21</sup> <b>4)</b> Jan-27-21	Concrete-Grey
DECK-1	None Detected	<ol> <li>None Detected</li> <li>99-100% Qtz, Calc, Opq</li> <li>Fib.Op.Prop. Same as in</li> </ol>	Grey concrete - bridge deck/ moralone(?)
Lab ID # 9092-00053-010		<b>3)</b> <sup>1-21-21</sup> <b>4)</b> 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.

1 pf Ľ Laboratory Analyst\_ Greg Hanes

ASBESTOS TEM LABORATORIES, INC.

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



### POLARIZED LIGHT MICROSCOPY ANALYTICAL REPORT

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

Page: <u>2</u> of <u>3</u>

		x-95/110 01 000/14-82-020	
Contact: Robert Piekarz Address: Nevada Departmen 1263 South Stewart Carson City, NV 8	t of Split Layers t Street Job Site / N	es Analyzed: 25 3 Analyzed: 0	Report No. <b>143640</b> Date Submitted:Jan-22-21Date Reported:Jan-27-21
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	None Detected	1)None Detected 2)99-100% Qtz, Calc, Opq Fib. Op.Prop. Same as in	Grey concrete - bridge deck/ moralone(?)
Lab ID # 9092-00053-011		<b>3)</b> <sup>1-21-21</sup> <b>4)</b> Jan-27-21	Concrete-Grey
DECK-3	None Detected	<ol> <li>None Detected</li> <li>99-100% Qtz, Calc, Opq Fib. Op.Prop. Same as in</li> </ol>	Grey concrete - bridge deck/ moralone(?)
Lab ID # 9092-00053-012		<b>3)</b> 1-21-21 <b>4)</b> Jan-27-21	Concrete-Grey
WW-1	None Detected	1)None Detected 2)99-100% Qtz, Calc, Opq Fib. Op.Prop. Same as in	Grey concrete - wing wall
Lab ID # 9092-00053-013		<b>3)</b> <sup>1-21-21</sup> <b>4)</b> Jan-27-21	Concrete-Grey
WW-2	None Detected	1)None Detected 2) <sup>99-100%</sup> Qtz, Calc, Opq Fib. Op.Prop. Same as in	Grey concrete - wing wall
Lab ID # 9092-00053-014		<b>3)</b> <sup>1-21-21</sup> <b>4)</b> Jan-27-21	Concrete-Grey
WW-3	None Detected	1)None Detected 2)99-100% Qtz, Calc, Opq Fib. Op.Prop. Same as in	Grey concrete - wing wall
Lab ID # 9092-00053-015		<b>3)</b> 1-21-21 <b>4)</b> Jan-27-21	Concrete-Grey
PARA-1	None Detected	<ol> <li>None Detected</li> <li>99-100% Qtz, Calc, Opq Fib. Op.Prop. Same as in</li> </ol>	Grey concrete - parapet
Lab ID # 9092-00053-016		<b>3)</b> <sup>1-21-21</sup> <b>4)</b> Jan-27-21	Concrete-Grey
PARA-2	None Detected	<ol> <li>None Detected</li> <li>99-100% Qtz, Calc, Opq</li> <li>Fib. Op.Prop. Same as in</li> </ol>	Grey concrete - parapet
Lab ID # 9092-00053-017		<b>3)</b> <sup>1-21-21</sup> <b>4)</b> Jan-27-21	Concrete-Grey
PARA-3	None Detected	<ol> <li>None Detected</li> <li>99-100% Qtz, Calc, Opq</li> <li>Fib.Op.Prop. Same as in</li> </ol>	Grey concrete - parapet
Lab ID # 9092-00053-018		<b>3)</b> 1-21-21 <b>4)</b> an-27-21	Concrete-Grey
ABT-1	None Detected	1)None Detected 2)99-100% Qtz, Calc, Opq Fib.Op.Prop. Same as in	Grey concrete - abutment
Lab ID # 9092-00053-019		<b>3)</b> 1-21-21 <b>4)</b> Jan-27-21	Concrete-Grey
ABT-2	None Detected	<ol> <li>None Detected</li> <li>99-100% Qtz, Calc, Opq Fib. Op.Prop. Same as in</li> </ol>	Grey concrete - abutment
Lab ID # 9092-00053-020		<b>3)</b> <sup>1-21-21</sup> <b>4)</b> 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.

1 pf Ľ Laboratory Analyst\_ Greg Hanes

ASBESTOS TEM LABORATORIES, INC.

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### POLARIZED LIGHT MICROSCOPY ANALYTICAL REPORT

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

Page: <u>3</u> of <u>3</u>

Contact: Robert PiekarzSamples Indicated:25 Reg. Samples Analyzed:Report No.143640 Date Submitted:Address: Nevada Department of 1263 South Stewart Street Carson City, NV 89712Split Layers Analyzed:0Date Submitted:Jan-22-21 Date Reported:SAMPLE IDASBESTOS %OTHER DATA TYPEDESCRIPTION FIELDABT-3None DetectedOTHER DATA 1) Non-Asbestos Fibers 2) Matrix MaterialsDESCRIPTION FIELDABT-3None DetectedOTHER DATA 1) Non-Asbestos Fibers 2) Matrix MaterialsGrey concret - abutmentLab ID # 9092-00053-021None Detected100% Qtz, Calc, Opq Fib. Op. Prop. Same as in 3) 1-21-21Grey concret - columnsLab ID # 9092-00053-022None Detected1)None Detected 2) 99-100% Qtz, Calc, Opq Fib. Op. Prop. Same as in 3) 1-21-21Grey concret - columnsLab ID # 9092-00053-023None Detected1)None Detected 2) 99-100% Qtz, Calc, Opq Fib. Op. Prop. Same as in 3) 1-21-21Grey concret - columnsLab ID # 9092-00053-023None Detected 3) 1-21-211) Jan-27-21Concrete-GreyCOL-2None Detected 2) 99-100% Qtz, Calc, Opq Fib. Op. Prop. Same as in 3) 1-21-21Grey concret - columnsLab ID # 9092-00053-0233) 1-21-214) Jan-27-21Concrete- columnsLab ID # 9092-00053-024None Detected 3) 1-21-211) Jan-27-21Concrete- columns1None Detected 2) 99-100% Qtz, Calc, Opq 3) 1-21-211) Jan-27-21Concrete- columns1None Detected 2) 1-21-211) Jan-27-21Concret	
SAMPLE IDASBESTOS %1) Non-Asbestos Fibers 2) Matrix Materials 3) Date/Time Collected 4) Date AnalyzedDESCRIPTION FIELDABT-3None Detected3) Date/Time Collected 4) Date AnalyzedGrey concrete - abutmentABT-3None Detected3)1-21-214) Jan-27-21Concrete-GreyLab ID # 9092-00053-0213)1-21-214) Jan-27-21Concrete-GreyCOL-1None Detected1)None Detected 2)99-100% Qtz, Calc, Opq Fib.Op.Prop. Same as inGrey concrete - columnsLab ID # 9092-00053-0223)1-21-214) Jan-27-21Concrete-GreyCOL-2None Detected 2)99-100% Qtz, Calc, Opq Fib.Op.Prop. Same as inGrey concrete - columns1)None Detected 2)99-100% Qtz, Calc, Opq Fib.Op.Prop. Same as inGrey concrete - columns1)None Detected 2)99-100% Qtz, Calc, Opq Fib.Op.Prop. Same as inGrey concrete - columns1)None Detected 2)99-100% Qtz, Calc, Opq Fib.Op.Prop. Same as inGrey concrete - columns1)None Detected 2)99-100% Qtz, Calc, Opq Fib.Op.Prop. Same as inGrey concrete - columns1)None Detected 2)99-100% Qtz, Calc, Opq Fib.Op.Prop. Same as inGrey concrete - columns1)None Detected 2)99-100% Qtz, Calc, Opq Fib.Op.Prop. Same as inGrey concrete - columns1)None Detected 2)99-100% Qtz, Calc, Opq Fib.Op.Prop. Same as inGrey concrete - columns2)1-21-214) Jan-27-21Concrete-Grey1)None Detected 2)99-100% Qtz, Calc, Opq Fib.Op.Prop. Same as inGrey concrete - columns2)99-100% Qtz, Calc, Opq Fib.Op.Prop. Same as inGrey con	
AB1-3None Detected2/99-100% Qtz, Calc, Opq Fib.Op.Prop. Same as inLab ID # 9092-00053-0213)1-21-214) Jan-27-21Concrete-GreyCOL-1None Detected1)None DetectedGrey concrete - columns1 b ID # 9092-00053-0223) 1-21-214) Jan-27-21Concrete-GreyCOL-2None Detected1)None DetectedGrey concrete - columns1 b ID # 9092-00053-0233) 1-21-214) Jan-27-21Concrete-GreyCOL-2None Detected2)99-100% Qtz, Calc, Opq Fib. Op.Prop. Same as inGrey concrete - columns1 b ID # 9092-00053-0233) 1-21-214) Jan-27-21Concrete-GreyCOL-3None Detected2)99-100% Qtz, Calc, Opq Fib. Op.Prop. Same as inGrey concrete - columns1 None Detected2)99-100% Qtz, Calc, Opq Fib. Op.Prop. Same as inGrey concrete - columns2 COL-3None Detected2)99-100% Qtz, Calc, Opq Fib. Op.Prop. Same as inGrey concrete - columns2 09-100% Qtz, Calc, Opq Fib. Op.Prop. Same as in1)None Detected 2)99-100% Qtz, Calc, Opq Fib. Op.Prop. Same as inGrey concrete - columns	1
COL-1None Detected1) None DetectedGrey concrete - columnsLab ID # 9092-00053-0221) None Detected2) 99-100% Qtz, Calc, Opq Fib. Op. Prop. Same as inGrey concrete - columnsCOL-2None Detected1) None DetectedGrey concrete - columnsLab ID # 9092-00053-0231) None DetectedGrey concrete - columnsCOL-3None Detected1) None DetectedGrey concrete - columns1) None Detected3) 1-21-214) Jan-27-21Concrete-GreyCOL-3None Detected3) 1-21-214) Jan-27-21Concrete-GreyCOL-3None Detected1) None DetectedGrey concrete - columns1) None Detected2) 99-100% Qtz, Calc, Opq Fib. Op. Prop. Same as inGrey concrete - columnsCOL-3None Detected1) None DetectedGrey concrete - columns1) None Detected1) None Detected1) None DetectedGrey concrete - columns1) None Detected1) None Detected1) None Detected1) None Detected1) None Detected1) None Detected1) None DetectedGrey concrete - columns	
COL-1None Detected2) 99-100% Qtz, Calc, Opq Fib.Op.Prop. Same as inLab ID # 9092-00053-0223) 1-21-214) Jan-27-21Concrete-GreyCOL-2None Detected1) None DetectedGrey concrete - columnsLab ID # 9092-00053-0233) 1-21-214) Jan-27-21Concrete-GreyCOL-3None Detected2) 99-100% Qtz, Calc, Opq Fib.Op.Prop. Same as inGrey concrete - columns1) None Detected3) 1-21-214) Jan-27-21Concrete-GreyCOL-3None Detected2) 99-100% Qtz, Calc, Opq Fib.Op.Prop. Same as inGrey concrete - columns	
COL-2       None Detected       1)None Detected       Grey concrete - columns         Lab ID # 9092-00053-023       1)None Detected       2)99-100% Qtz, Calc, Opq       Grey concrete - columns         COL-3       None Detected       3)1-21-21       4) Jan-27-21       Concrete-Grey         I)None Detected       2)99-100% Qtz, Calc, Opq       Grey concrete - columns       Grey concrete - columns	
COL-2None Detected2) 99-100% Qtz, Calc, Opq Fib. Op. Prop. Same as inLab ID # 9092-00053-0233) 1-21-214) Jan-27-21Concrete-GreyCOL-3None Detected1) None Detected 2) 99-100% Qtz, Calc, Opq Fib. Op. Prop. Same as inGrey concrete - columns	-
COL-3     1) None Detected     Grey concrete - columns       1) None Detected     2) 99-100% Qtz, Calc, Opq     Grey concrete - columns       Fib. Op. Prop. Same as in     Fib. Op. Prop. Same as in     Grey concrete - columns	
COL-3     None Detected     2) 99-100% Qtz, Calc, Opq       Fib. Op. Prop. Same as in	
Lab ID # 9092-00053-024 3) 1-21-21 4) Im 27-21 Concrete-Grey	
$3)^{1} = 4$	
EXP-1None Detected1)40-60% Cellulose,Synthetics 2)40-60% OpqBrown fiberboard - expansion joints	
Lab ID # 9092-00053-025         3) 1-21-21         4)Jan-27-21         Fiberboard-Brown/Black	
1) 2)	
Lab ID # 3) 4)	
1) 2)	
Lab ID # 3) 4)	
1) 2)	
Lab ID # 3) 4)	
1) 2)	
Lab ID # 3) 4)	
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.

- A Laboratory Analyst\_ Greg Hanes

ASBESTOS TEM LABORATORIES, INC. 1350 I

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

1263 S. Stewart St Carson City, NV 89701			IIS	Survey Data					Page //	2
inspectors: Brian Reed/Robert Piekarz	Robert Piekarz	Project Name:	Bridas 5	STI NIE		Project Number:			Date Sampled:	121/21
Phone: 775-888-7892	Fax: 775-888-7104	Project Location:	01	51-2		Analysis Type: Abestos	estos		Air	i me
Turn-A-Round Time:	Rush 24-Hour	(eaz	Requests:	Verbals	Fax		Test to First Positive:	t Positive:	Yes	(en s
Lab # Sample ID	Material Description	5	Sample Location		Location of Materials	Materials	Quantity	Condition	Friable	Asbestos %
1 EC-1	grey concrete	<i>ke</i>	ENG CED		Breke	571 NIE	/	Q	N	
2 BUZ			10		2	1	1	6	2	
3 EC3			${\rightarrow}$				~	9	N	
3tem-1			Stownes !!				~	Y	2	
s Stem 2			1	-			/	9	N	
6 String			1				/	3	N	
7 T945-1			Trues				1	9	R	
8 Trus -2			_				1	5	N	
1 Trus 3			1				1	6	N	
10 PecK-1	$\uparrow$		Bridge Deck/Meriulanc	( moralore		11	1	5	N	
Comments/Additional Information	nformation		2						3	
	MATERIAL			CONDITION	N	UNITS			ASBESTOS %	
PEI - Pipe Fitted Insulation PRI - Pipe Run Insulation	VT - Vinyl Tile M - Mastic	GA - Gasket D - Debris	0-0	G - Good D - Damaged		LF - Linear Feet SF - Square Feet		A - Asmosite Asbestos C - Chrysotile Asbestos	e Asbestos e Asbestos	
C.I - Duct Insulation TI - Tank Insulation	CBM - Cove Base Mastic AT - Acoustical Tile	154 - Thermal System Insulation	SD -	SD - Significant Damage	mage	CF - Cubic Feet		NDA - No As Assumed AC	NDA - No Asbestos Detected Assumed ACM - No Samples Taken	d s Taken
El Expansion Joint	SA - Spray Acoustic	R - Roof								
10 - adrect insurant	P - Plaster	UW - Urywali JC - Joint Compound								
Relinquished By: P Date/Time : 1721 Received By:	103		Relinquished By: Date/Time : 1/2 Received By:	22/21 10	0	SS AM OTEM	Relinquished By: Date/Time : Received By:	ed By:		11
- 1			- In antinanti	ALL CLANDER	1		- wassinger			

1,3

Nevada Department of Transportation 1263 S. Stewart St

Project Number:     Date Sampled:       Analysis Type: Abestos     Air       Fax     Test to First Positive:     Yes       Fax     Test to First Positive:     Yes       Bridge     S71 NE     I     C       Bridge     S71 NE     I     C       I     C     N       I     C     N       I     C     N       I     C     N       I     C     N       I     C     N       I     C     N       I     C     N       I     C     N       I     C     N       N     I     C     N       N     I     C     N       M     UNITS     Assumed ACM - No Samples       SF - Subare Feet     C- Chrysotile Abestos       SF - Subic Feet     Assumed ACM - No Samples       I     Assumed ACM - No Samples	1263 S. Stewart St Carson City, NV 89701				Survev Data	322				Page 2	5
Bits     Factor     Stanlyeis Type: Absents:     Analysis Type: Absents:     Analysis Type: Absents:     Analysis Type: Absents:       Aftmer:     Rush     23:410ut     23:410ut     23:410ut     23:410ut     24:40ut       Anterial     Barrelia     Constition     Under the standard st	Inspectors: Brian Ree	d/Robert Piekarz	Project Name:	Bridge	STI NE		Project Number			Date Samp	led: 1/21/21
Interest     Scattor     Recuestis:     Verbils     Fax     Text to first Pointer     Version       DerK-3     Grey Centrards     Sample tocation     Journaly     Condition     Fiable       DerK-3     Grey Centrards     Brelga     Relga     S71 ME     1     C     M       DerK-3     Multi-1     Multi-1     C     M     M       Nul-2     Multi-1     Multi-1     C     M       Nul-2     Multi-1     Multi-1     C     M       Nul-2     Regard     1     C     M       Multi-1     Breacpet     1     C     M       Multi-1     Breacpet     1     C     M       Multi-1     Breacpet     1     C     M       Breac-1     Breacpet     1     C     M       Breac-1     Breacpet     1     C     M       Breac-2     Breacpet     1     C     M       Breac-2     Abbut     Abbut     1     C     M       Breac-2     Breacpet     1     C     M       Breac-2     Breac-2     Breacpet     1     C     M       Breac-2     Breac-2     Breacpet     1     C     M       Breac-2<	Phone: 775-888-7892		Project Location	р	I-15		Analysis Type: /	vbestos		Air	(mil)
momental Description         Sample Location         Location         Material Description         Frable           Der K-2         Grey Center E         Budge, Det K / Insurface         Bredge, 5/1 ME         1         C         N           Nu W-1         Nu W-2         Public         Bredge, Det K / Insurface         Bredge, 5/1 ME         1         C         N           Nu W-2         Nu W-2         Public         Bredge, Det K / Insurface         Bredge, Det K / Insurface         N         N           Reve.1         Bresc.1         Bresc.2         Public         Bredge, Det K / Insurface         N	Turn-A-Round Time:	Rush 24-Hour		Requests:	Verbals			Test to Firs	st Positive:		Yes (NB
Deck-2     Grey Concrete     Breke, Re / Inumbre     Breke, S71 ME     1       Deck-3     UNU-1     UNIVE     UNIVE     F     1       NUU-1     UNIVE     UNIVE     Note     1     1       NUU-1     UNIVE     Note     1     1     1       NUU-1     UNIVE     Note     1     1     1       NUU-1     Note     1     1     1     1       NUU-1     Note     2     1     1     1       NUU-1     Note     1     1     1     1       NUU-1     Note     2     1     1     1       Nuu-2     Note     2     2     2     1       Nuu-2     Note     2     2     1				Sample Loca	ation	Location of	Materials	Quantity	Condition	Friable	Asbestos %
De K-3     V       WW-1     W/W-1       WW/2     W/W/2       WW/2     W/W/2       WW/2     M/W/2       W/W/2     M/M/2       W/W/2     M/M/2       M/W/2     M/M/2       M/W/2     M/M/2       M/W/2     M/M/2       M/M/2     M/M	DecK-2	grey		Briefer R	K/mainlook	Broke	571 NE	~	5	N	
WW-1     WYA-2       WW -2     WYA-2       WYA-2     WYA-2       WYA-2     WYA-2       WYA-2     Readed       WYA-2     WYA-2       WA-2     WYA-2	Perks	3		7		,	_	/	3	2	
WW-2     WW-2       Bee-1     Parado       Bee-1     Parado       Bee-2     Parado       Bee-2     Parado       Parado     Parado       Pa	3 WW-	-		When	112			-	9	5	
New     New       Perce-1     Perce-1       Perce-2     Perce-1       Percent     Percent				)				-	Y	R	
Percent     Reserve       Revent     Revent       Revent     Severement       Revent	5 MWW	2		$\uparrow$				-	9	3	
Rever     Abut     Abut     Abut       Rever     Abut     Abut     1       Abt     Abut     Abut     1       Abt     Abut     1     1       Abt     Abut     1     1       Abt     Abut     1     1       Abt     1     1     1       Abut     1     1	Per-1			Roap	t				3	R	
Rate     Rate     Rate     Rate       Abt-1     Abt-finit     Abt-finit     1       Abt-2     Abt-finit     Abt-finit     1       Additional Information     Information     Information     1       Additional Information     Information     CONDITION     UNITS       Additional Information     Information     Information     1       Additional Information     Information     Information     Information       Additional Information     Informati	Pere-2	~		-				~	S	5	
Abt-I     AbitAment     AbitAment       0     AbitA     AbitAment       0     AbitA     AbitAment       AbitA     AbitA     V       AbitA     AbitA       AbitA     CONDITION       Maternal     Maternal       Maternal     0 - Debras       Maternal     0 - Debras       Maternal     0 - Debras       Maternal     50 - Significant Damage       Maternal     57 - Significant Pamage       Masternal     D - Debras       Maternal     SD - Significant Damage       Maternal     CF - Cubit Feet       Maternal     Damaged       Maternal     Date/Time:	Parari	2		$\rightarrow$				-	S	N	
Modificinal Information     MATERIAL     Modificant       Abile - 2     MATERIAL     CONDITION       MATERIAL     MATERIAL     CONDITION       Matterian     VT - Viny Tile     GA - Gasket       Matterian     VT - Viny Tile     GA - Gasket       Matterian     D - Debris     CONDITION       Matterian     D - Debris     D - Debris       Matterian     M - Naster     SD - Significant Damage       Matterian     M - Norwall     D - Debris       M - Nail     D - Debris     SD - Significant Damage       M - Nail     D - Debris     SD - Significant Damage       M - Nail     D - Debris     SD - Significant Damage       M - Nail     D - Debris     SD - Significant Damage       M - Nail     D - Debris     SD - Significant Damage       M - Nail     D - Debris     SD - Significant Damage       M - Nail     D - Debris     SD - Significant Damage       M - Nail     D - Debris     SD - Significant Damage       M - Nail	9 Abt-1			Abutn	rent.			-	U	N	
dditional Information       MATERIAL       MATERIAL       MATERIAL       MATERIAL       NATERIAL       MATERIAL       CONDITION       Units     6A-Gasket       0     D - Debris       0     CBM - Cove Buse Muastic     TSI - Thermal System       0     CBM - Cove Buse Muastic     TSI - Thermal System       0     CBM - Cove Buse Muastic     TSI - Thermal System       0     CBM - Cove Buse Muastic     TSI - Thermal System       0     CBM - Cove Buse Muastic     TSI - Thermal System       0     CBM - Cove Buse Muastic     TSI - Thermal System       0     CBM - Cove Buse Muastic     TSI - Thermal System       0     CBM - Cove Buse Muastic     TSI - Thermal System       0     V - Nall     D - Damaged       0     V - Nall     D - Dimaged       0     V - Nall     D V - Dimyound       By:     M     D - Damaged       0     D - Date/Time :     D - C - Cubic Feet       0     V - Dimyound     CF - Cubic Feet       0     P - Plaster     CF - Cubic Feet       0     M - Dimyound     D - Damaged       0     D - Damaged     D - Damaged	10 ASE-2			12		7		~	Ś	5	
MATERIAL     CONDITION     UNITS       stulation     VT - Viny Tile     GA - Gasket     CONDITION     UNITS       in studention     M - Mastic     D - Debris     EF - Linear Feet       in Al - Acoustical Tile     TSI - Thermal System     D - Damaged     SF - Square Feet       in Al - Acoustical Tile     Insulation     SD - Significant Damage     CF - Cubic Feet       in Al - Acoustical Tile     Insulation     SD - Significant Damage     CF - Cubic Feet       in W - Wall     DW - Drywall     DN - Drywall     CF - Cubic Feet       BY:     M - Wall     DW - Drywall     Relinquished By:	Comments/Additiona	I Information									
Number     VT - Viny Tile     GA - Gasket     G - Good     LF - Linear Feet       ulation     M : Mastic     D - Debris     D - Debris     EF - Linear Feet       n     ZBM - Cove Bave Mexic     TSI : Thermal System     D - Damaged     EF - Cubic Feet       n     AT - Acoustical Tile     Its: Thermal System     D - Disprise     EF - Cubic Feet       n     AT - Acoustical Tile     Its: SD - Significant Damage     CF - Cubic Feet       n     AT - Acoustical Tile     Its: SD - Significant Damage     CF - Cubic Feet       n     AT - Acoustical Tile     Its: SD - Significant Damage     CF - Cubic Feet       n     V - Wall     DW - Drywall     D       BY:     D     D     D     D       M     M - Drywall     D     D       BY:     D     D     D       M     D     D     D		MATERIAL			CONDITIC	N	INN	2		ASBESTC	S % -
n     AT - Acoustical Title     Insulation     De - Digital datage     De - Digital datage       nt     SA - Spray Acoustical Title     Is a sold     De - Digital datage     De - Digital datage       nt     SA - Spray Acoustical Title     Is a sold     De - Digital datage     De - Digital datage       nt     SA - Spray Acoustical Title     Is a sold     De - Digital datage     De - Digital datage       By:     De - Print Campound     Is a sold     De - Digital datage     De - Digital datage       By:     De - Print Campound     Dete/Titlee :     Date/Titlee :     Date/Titlee :	PFI - Pipe Fitted Insulation PRI - Pipe Run Insulation D - Duct Insulation	ut - Vinyi Tile M - Mastic FRM - ComeRum Monte	GA - Gasket D - Debris		G - Good D - Damaged Sn - Significant Davi	docw	LF - Linear Feet SF - Square Feet CF - Cubic Feet		A - Asmosit C - Chrysoti	e Asbestos le Asbestos	etood
an     w-Wall     DW • Drywall       P • Plaster     JC - Joint Compound       By:     D       Relinquished By:       Date/Time :       Received By:	<ul> <li>Tank insulation</li> <li>E1 - Excandion Inité</li> </ul>	AT - Acoustical Tite 5A - Social Acoustic	Insulation p - poor			0			Assumed A	CM - No Sam	ples Taken
By: D-M Relinquished By: Pate/Time : Received By:	81 - Boiler Insulation	W-Wall P - Plaster	D/V - Drywall JC - Joint Compound								
Received By:	Relinquished By: 20			Relinquished Date/Time :	1 By:			Relinquish Date/Time	ed By:		
	Received By:			Received By				Received B	iv:		

( C

Nevada Department of Transportation

01     Survey Data       eed/noert: Petern:     Poject Name: <i>Dielect</i> . <i>Strip</i> . <i>Aur</i> . <i>Dies</i> . <i>Strip</i> . <i>Aur</i> . <i>Bistrip</i> . <i>Aur</i> . <i>A</i>	1263 S. Stewart St	•								Page 3	ĸ
an Reed Robert Finlart. Project Nume. <i>Evelog</i> 571 ME Project Number. 2014 Sampled: The Sampled control and the set of th	Carson City, NV 897(	01			Survey Data						}
Time:     Alterior     Project location:     Dir     Less to First Positive     Air       Time:     Alterior     Station of March as 24-from     Exercise of March as 24-from     Project of First Positive     Air       Time:     Alterior as 24-from     Exercise of March as 24-from     Exercise of March as 24-from     Exercise of March as 24-from     Project of First Positive     Air       Alter     Steppe Location     Exercise of March as 24-from     Exercise of March as 24-from     Exercise of March as 24-from     Project of The March as 24-from     Air       Alter     Steppe Location     Exercise of March as 24-from       Alter     Collary IDS     Alter as 24-from     Exercise of March as 24-from     Exercise of March as 24-from     Exercise of March as 24-from       Alter as 24-from     Collary IDS     Alter as 24-from     Alter as 24-from     Alter as 24-from     Alter as 24-from       Alter as 24-from     Collary IDS     Alter as 24-from     Alter as 24-from     Alter as 24-from     Alter as 24-from       Alter as 24-from     Alter as 24-from     Alter as 24-from     Alter as 24-from     Alter as 24-from     Alter as 24-from       Alter as 24-from     Alter as 24-from     Alter as 24-from     Alter as 24-from	inspectors: Brian Re-	ed/Robert Piekarz	Project Name:	Bible 5	N NE		Project Number:			Date Sample	d: 1/21/21
Inter:     Raching Description     Requests:     Verbals     Fax     Test to first Position     Version       ME:     Adversion Description     Sample Location     Adversion     Quantity     Condition     Fridue       ME:     Grip     COLLENTINS     Encode     Stredge     STI ME     1     C     N       J-1     N     I     N     I     E     N       J-1     Stredge     STI ME     I     E       J-1     Stredge     STI ME     I     E       J-1     Stredge     STI ME <th>Phone: 775-888-789</th> <th></th> <th>Project Location</th> <th>10 :u</th> <th>9-I</th> <th></th> <th>Analysis Type: A</th> <th>bestos</th> <th></th> <th>Air</th> <th>Bull</th>	Phone: 775-888-789		Project Location	10 :u	9-I		Analysis Type: A	bestos		Air	Bull
Alt     Get/ Service     Sample Location     Location of Material     Quantity     Condition     Frable       JL1     JL1     JL1     L     L     L     JL       JL1     JL1     L     L     L     L       JL1     JL1     L     L     L     L       JL1     JL1     L     L     L     L       JL1     L     L     L     L     L       JL1     L     L     L     L     L       JL2     L     L     L     L     L       JL3     L     L     L     L     L       JL3     L     L     L     L     L       JL3     L     L     L     L     L <t< th=""><th>Turn-A-Round Time:</th><th>Rush</th><th>(egz)</th><th>Requests:</th><th>Verbals</th><th>Fax</th><th></th><th>Test to Firs</th><th>st Positive:</th><th></th><th>es No</th></t<>	Turn-A-Round Time:	Rush	(egz)	Requests:	Verbals	Fax		Test to Firs	st Positive:		es No
ML3     Gey Contracte     Molenneu t     Broche STI ME     I       21-1     0.12     0.12     0.12     0.12     1.1       21-2     1     0.12     1.1     1.1     1.1       21-3     1     1.1     1.1     1.1       21-4     1     1.1     1.1     1.1       21-5     1     1.1     1.1     1.1       21-5     1     1.1     1.1     1.1       21-5     1.1     1.1     1.1     1.1       21-5     1.1     1.1     1.1     1.1       21-5     1.1     1.1     1.1     1.1       21-5     1.1     1.1     1.1     1.1       21-5     1.1     1.1     1.1     1.1       21-5     1.1     1.1     1.1     1.1       21-5     1.1     1.1     1.1     1.1       21-5     1.1     1.1     1.1     1.1       21-5     1.1     1.1     1.1     1.1       21-5     1.1     1.1     1.1     1.1       21-5     1.1     1.1     1.1     1.1       21-5     1.1     1.1     1.1     1.1       21-5     1.1     1.1     1.1 </th <th></th> <th></th> <th></th> <th>Sample Loca</th> <th>ition</th> <th>Location of</th> <th>Materials</th> <th>Quantity</th> <th>Condition</th> <th>Friable</th> <th>Asbestos %</th>				Sample Loca	ition	Location of	Materials	Quantity	Condition	Friable	Asbestos %
ALI     Collewins       oL2     V       oL3     V       oL4     P	-	964	te	Abutin	en t	Bridge	571	/	5	2	
cl 12     V     V     V     I       cl 13     V     V     V     V     I       cl 13     V     P     P     V     I       cl 13     P     P     P     P     P       vio -1     Brouon Riber / brantel     P     P     P     I       vio -1     Brouon Riber / brantel     P     P     I       ditional information     Amore     D. observed     P     P	2 Col-1	1 , 2		Colm	ИПГ	5		/	J	λ	
61-3     V     V       Point Recurrent Processed     Processed		2			>			1	2	R	
Xp-1     Rrown Ruber Ubacted     Corport     Total Denies       Image: Second Rule     Corport     Total Rule       Image: Second Rule     Image: Second Rule     Image: Second Rule       Image: Second Rule     Image: Second Rule     Image: Second Rule       Image: Rule     Image: Second Rule     Image: Second Rule       Image: Rule     Image: Second Rule     Image: Second Rule       Image: Rule     Image: Rule     Image: Second Rule       Image: Rule     Image: Rule     Image: Rule	0			~	J		1	-	Ć	2	
0     0     0     0     0       1     0     0     0     0     0       1     0     0     0     0     0       1     0     0     0     0     0       1     0     0     0     0     0       1     0     0     0     0     0       1     0     0     0     0     0       1     0     0     0     0     0       1     0     0     0     0     0       1     0     0     0     0     0       1     0     0     0     0     0       1     0     0     0     0     0       1     0     0     0     0     0       1     0     0     0     0     0       1     0     0     0     0     0       1     0     0     0     0     0       1     0     0     0     0     0       1     0     0     0     0     0       1     0     0     0     0     0       1     0     0     0 <td>i,X</td> <td></td> <td>berel</td> <td>BrDow</td> <td>STON JONNES</td> <td></td> <td>-</td> <td>-</td> <td>9</td> <td>N</td> <td></td>	i,X		berel	BrDow	STON JONNES		-	-	9	N	
Image: Second By: Second By	6 7			-							
Interview     Inter	2										
ditional Information     MATERIAL     CONDITION     UNITS       dition     MATERIAL     CONDITION     CF-CLUDICFEEt       dition     MATERIAL     SD-Significant Damage     CF-CLUDICFEEt       dition     CW-Drywall     SD-Significant Damage     CF-CLUDICFEEt       dition     Wv wall     CW-Drywall     SD-Significant Damage     CF-CLUDICFEEt       dition     Wv wall     CW-Drywall     SD-Significant Damage <t< td=""><td>20</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	20										
ditional Information           Material         CONDITION         UNITS           Attent         6 - Good         LF - Linear Feet           Intom         Maste         0 - Damaged         SF - Square Feet           Intom         M-Maste         0 - Damaged         SF - Square Feet           AT-Acoustical Tile         Insulation         SD - Significant Damage         CF - Cubic Feet           AT-Acoustical Tile         Insulation         SD - Significant Damage         CF - Cubic Feet           AT-Acoustical Tile         Insulation         SD - Significant Damage         CF - Cubic Feet           W. Wall         DW - Drywall         SD - Significant Damage         CF - Cubic Feet           Y. Mage         DW - Drywall         SD - Significant Damage         CF - Cubic Feet           Y. Mage         DW - Drywall         SD - Significant Damage         CF - Cubic Feet           P - Player         Dr - Damage         CF - Cubic Feet         Date/Time           P - Player         Date/Time :         Date/Time :         Date/Time	0										
ditional Information           MATERIAL         CONDITION         UNITS           Addressed         MATERIAL         CONDITION         UNITS           Intern         Vr. Vinwithle         GA-Gasket         G - Good         LF - Linear Feet           Intern         Nr. Vinwithle         CA-Gasket         G - Good         LF - Linear Feet           Intern         To - Damaged         SF - Square Feet         SF - Square Feet         SF - Square Feet           Ar - Accustical Title         Insulation         SD - Significant Damage         CF - Cubic Feet         SF - Square Feet           Ar - Accustical Title         Insulation         SD - Significant Damage         CF - Cubic Feet         Date/Time           Ar - Accustic         R - Roal         Nr Wall         DVV - Drywall         SA - Spray Accustic         Relinquishe           V         Mr wall         DVV - Drywall         SA - Spray Accustic         R - Cubic Feet         Date/Time           V         Mr wall         DVV - Drywall         Accontect         Date/Time         Date/Time	10				-						
MATERIAL     CONDITION     UNITS       lation     VT - Vinyl Tile     GA - Gasket     G - Good     LF - Linear Feet       lation     N - Mastic     D - Detris     D - Demaged     SF - Square Feet       tion     M - Mastic     TS - Thermal System     SD - Significant Damage     CF - Cubic Feet       AT - Accustical Tile     Insulation     SD - Significant Damage     CF - Cubic Feet       M. Wall     DW - Drywall     P - Naysc     CF - Cubic Feet       V. Mat     DW - Drywall     SD - Significant Damage     CF - Cubic Feet       V. Mat     DW - Drywall     SD - Significant Damage     CF - Cubic Feet       V. Mat     DW - Drywall     SD - Significant Damage     CF - Cubic Feet       V. Mat     DW - Drywall     SD - Significant Damage     CF - Cubic Feet       M. Wall     DW - Drywall     SD - Significant Damage     CF - Cubic Feet       M. Wall     DW - Drywall     SD - Significant Damage     CF - Cubic Feet	Comments/Addition	al Information									
Initiation     VT - Vinvit Tile     GA - Gasket     G - Good     LF - Linear Feet       Inion     M - Mastic     D - Demaged     SF - Square Feet       Inion     M - Mastic     T - Noterins     D - Demaged     SF - Square Feet       CBM - Cove Base Mastic     TS1 - Thermal System     SD - Significant Damage     CF - Cubic Feet       AT - Accounted Tile     Insulation     SD - Significant Damage     CF - Cubic Feet       AT - Accounted Tile     Insulation     SN - Stray Accounte     R - Rool       W. Wall     DW - Drywall     P - Navjer     CF - Cubic Feet       V. Mark     DW - Drywall     P - Navjer     CF - Cubic Feet       V. Mark     DW - Drywall     P - Navjer     Relinquished By:		MATERIAL			CONDITIC	NO	UNIT	s		ASBESTOS	. %
tion M-Master D-Debris D-Demaged SF - Square Feet CBM - Cove Base Master TSI - Thermal System SD - Significant Damage CF - Cubic Feet AT - Accustical Tile Insulation SD - Significant Damage CF - Cubic Feet N- Wall DW - Drywall P - Player JC - Joint Compound N- M- Drywall P - Player JC - Joint Compound P - Player JC - Joint Compound Relinquished By: Date/Time : Date/Time : Date/Time Relinquishe	PFI - Pipe Fitted Insulation	VT - Vinyi Tite	GA - Gasket		G - Good		LF - Linear Feet		A - Asmasit	e Asbestos	
CBM - Cove Base Mastic     TSI - Thermal System     SD - Significant Damage     CF - Cubic Feet       AT - Acoustical Tale     Insulation     SD - Significant Damage     CF - Cubic Feet       AT - Acoustical Tale     Insulation     SC - Spray Acoustic     R - Roof       W. Walt     CW - Drywalt     P - Naxyer     CF - Date of the	PRI - Pipe Run Insulation	1A - Mastec	D - Debris		D - Damaged		SF - Square Feet		C - Chrysoti	le Asbestos	
AT - Accustical Tile     Insulation       SA - Spray Accustic     R - Roof       SA - Spray Accustic     R - Roof       W- Walt     DW - Drywalt       P - Plaster     JC - Joint Compound       V- Frit     Date/Time :       Date/Time :     Date/Time :       Received By:     Received By:	EI - Duct Insulation	CBM - Cove Base Mastic	TSI - Thermal System		SD - Significant Da	mage	CF - Cubic Feet		NDA - NO A	sbestos Detect	ed
W. Malt CW - Drywalt P. Plasjer JC - Joint Compound V. S. P. Jasjer JC - Joint Compound Party Joss By: Received By:	The Tank Insulation El Exerciser Joint	AT - Acoustical Tile 60 - Corros Acoustic	Insulation D_pool						Assumed A(	CM - No Samp	es Taken
V: F. Plaster JC- toint Compound P: F. P. 10:55 JC- toint Compound P: F. P. 10:55 Date/Time : Received By:	BI - Beiler heulsten	we well									
By: Z. P. Loss Relinquished By: Date/Time : Date/Time : Received By: Received By: Received By: Date/Time : Received By: Recei		P - Plaster	JC - Joint Compound								
1/22/fc/ 1055 Date/Time: Received By:	Relinquished Bv: Z	- Tal		Relinquished	Bvr			Relinquish	ed Bu:		
Received By:	Date/Time : 1/22	12/ 1055		Date/Time :				Date/Time	·		
	Received By:			Received By:				Received B	N:		

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Neveda Department of Transportation

Appendix D Inspector Certifications and Licenses

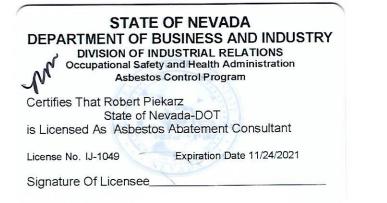
### STATE OF NEVADA DEPARTMENT OF BUSINESS AND INDUSTRY DIVISION OF INDUSTRIAL RELATIONS Occupational Safety and Health Administration Asbestos Control Program

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



ntal Training			approved by the California Division of d by Title 8, Article 2.7, Chapter 3.2, Section introl Act, Title II. Conducted by M&C el. # (510 499-5646	Expiration: November 24, 2021			
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	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

Expiration: November 24, 2021

Dates: November 24, 2020

**Director of Training: John McGinnis** 

Shull Frum

Certificate Number 48327 PR