



BRIDGE G-1092 N/S

HAZARDOUS MATERIALS SURVEY

BRIDGE INSPECTION AND SURVEY FOR PRESENCE OF
ASBESTOS AND HEAVY METAL(S),
MAY 2020

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

EXECUTIVE SUMMARY

The inspection (survey) for hazardous materials was conducted on bridge G-1092 N/S on May 12, 2020, by NDOT personnel from the Hazardous Materials section. The bridge was evaluated for both asbestos containing materials (ACM) and heavy metals in coating materials. One suspect lead sample, and ten suspect asbestos samples were collected with results and considerations summarized below:

- No ACMs were identified.
- Heavy metals were found in cementous coating materials but are not considered a Lead-Based Paint.

1.0 INTRODUCTION

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

- G-1092 N (North US 395, Panther Valley UPRR Overpass)
- G-1092 S (North US 395, Panther Valley UPRR Overpass)

The survey was conducted on May 12, 2020, by NDOT personnel. Suspect Asbestos Containing Material (ACM) were identified and appropriately sampled. Coating materials, if present, were sampled and analyzed for heavy metals including lead.

Bulk asbestos samples were analyzed by a National Voluntary Laboratory Accredited laboratory by polarized light microscopy (PLM). Lead 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 G-1092 N/S was constructed in 1967 with improvements/maintenance-related activities in 1974 and 1989. The bridge, in its entirety, is constructed of concrete including longitudinal beams, cross beams, piers, concrete reinforced barriers, terminal-end bridge footings and concrete bridge deck overlain with asphaltic concrete. Two types of cementous-based coating materials were found; one type on the piers, and one type on both concrete reinforced barriers and exterior longitudinal beams. Two types of expansion joints were identified, fiberboard and neoprene with epoxy caulking.

3.0 FIELD ACTIVITIES

The survey was conducted by NDOT personal, 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.

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, Bridges G-1092 N/S

Homogeneous Area	Description	Sample IDs*
A	Concrete beams, and bridge deck	UBCB-1-N, UBCB-2-N, UBCB-1-S, UBCB-2-S
B	Red concrete abutments	Abut-1-N, Abut-2-N, Abut-1-S, Abut-2-S
C	Concrete piers	Pillar-1-N, Pillar-2-N, Pillar-1-S, Pillar-2-S
D	Concrete reinforced barriers	GR-1-N, GR-2-N, GR-1-S, GR-2-S
E	Concrete foundation, underlaying terminal-end bridge seats	Footing-1
F	Fibrous expansion joint	EXPB-1
G	Grey neoprene foam and caulking expansion joint	EXP-1
H	Cementous coating material, piers	Bridge 1092 Paint-Pillar
I	Cementous coating material, concrete barriers and outer-most longitudinal beams	Bridge 1092 Paint-GR

notes: * N = north bridge, S = south bridge.

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. Coating material sample was submitted to Alpha Analytical and analyzed for heavy metals including lead using EPA 6020 test method.

A discussion of suspect ACM and suspect metals-based coating samples collected during the survey and findings are included in Section 6.0.

4.0 PLAN REVIEW

Design plans were reviewed, no ACMs were specified as part of construction materials and construction specifics were consistent with field observations.

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 21 bulk samples were collected from 9 homogeneous areas of suspect ACM. No ACMs 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, Bridges G-1092 N/S

Homogeneous Sampling Area	Sample ID*	Material Description/Sample Location	Lab Results ⁽¹⁾ , % Asbestos	NESHAP Category ⁽²⁾	Friability ⁽³⁾
A	UBCB-1-N	Concrete beams and bridge deck	Not detected	N/A	non-friable
	UBCB-2-N				
	UBCB-1-S				
	UBCB-2-S				
B	Abut-1-N	Red concrete abutments	Not detected	N/A	non-friable
	Abut-2-N				
	Abut-1-S				
	Abut-2-S				
C	Pillar-1-N	Concrete piers	Not detected	N/A	non-friable
	Pillar-2-N				
	Pillar-1-S				
	Pillar-2-S				
D	GR-1-N	Concrete reinforced barriers	Not detected	N/A	non-friable
	GR-2-N				
	GR-1-S				
	GR-2-S				

E	Footing-1	Concrete foundation, underlaying terminal-end bridge seat (footing)	Not detected	N/A	non-friable
F	EXPB-1	Fibrous expansion joint	Not detected	N/A	friable
G	EXP-1	Grey neoprene foam and caulking expansion joint	Not detected	N/A	non-friable
H	Pillar Texture	Cementous coating material, piers	Not detected	N/A	non-friable
I	Guard Texture	Cementous coating material, concrete barriers and outermost longitudinal beams	Not detected	N/A	non-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.
* N = north bridge, S = south bridge.

Suspect materials, other than those identified during the survey, 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

Cementous coating material was observed on the concrete piers, concrete reinforced barriers, and outermost longitudinal beams. Coating on the piers was determined to be its own homogeneous area and different than the latter two. Composite samples from both coating materials were collected for asbestos and total heavy metal analysis. Based on the EPA's definition of LBP, this coating is not considered a LBP. Analytical results are included in Appendix D and laboratory results are summarized in Table 2 and Table 3.

Table 3 – Summary of Coating Material

Homogeneous Sampling Area	Sample ID	Material Description/Sample Location	Heavy Metal Results ⁽¹⁾ , mg/Kg						
			As	Ba	Cd	Cr	Pb	Se	Ag
H	Bridge 1092 Paint-Pillar	Cementous coating material, piers	8.7	5,700	nd	19	6.2	nd	nd

I	Bridge 1092 Paint- GR	Cementous coating material, concrete barriers and outer- most longitudinal beams	14	220	24	nd	12	nd	nd
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notes: (1) EPA test method 6020.

na – not analyzed.

nd – not detected above method limits.

6.3 Recommendations

No ACMs were identified. Based on the presence of heavy metals in coatings, any activities which could result in exposure to workers should be performed in accordance with OSHA regulations to protect workers. Total concentration(s) of the above metal(s) indicates that coating waste would most likely not be a toxic characteristic hazardous waste. However, the method used to remove the coating material has an impact on the outcome of the waste determination and will need to be taken into consideration prior to disposal.

Appendix A
Bridge Location Map

SITE LOCATION MAP
NDOT Hazardous Materials Survey
Bridge G-1092 N/S
US 395
Panther Valley, NV



Appendix B
Bridge Photo Log

PHOTOGRAPHIC DOCUMENTATION

**NDOT Hazardous Materials Survey
Bridge G-1092 N/S
US 395
Panther Valley, NV**

PHOTO 1

DATE:
05/12/2020

DIRECTION:
Southwest

TAKEN BY:
Brian Reed

DESCRIPTION:
Southern ends of
bridges of G-1092.



PHOTO 2

DATE:
05/12/2020

DIRECTION:
West

TAKEN BY:
Brian Reed

DESCRIPTION:
Northern ends of
bridges G-1092.



PHOTOGRAPHIC DOCUMENTATION

**NDOT Hazardous Materials Survey
Bridge G-1092 N/S
US 395
Panther Valley, NV**

PHOTO 3

DATE:

05/12/2020

DIRECTION:

Southwest

TAKEN BY:

Brian Reed

DESCRIPTION:

View of G-1092
bridges.



PHOTO 4

DATE:

05/12/2020

DIRECTION:

Northwest

TAKEN BY:

Brian Reed

DESCRIPTION:

Northern abutment
and underside of
G-1092 N.



PHOTOGRAPHIC DOCUMENTATION

**NDOT Hazardous Materials Survey
Bridge G-1092 N/S
US 395
Panther Valley, NV**

PHOTO 5

DATE:
05/12/2020

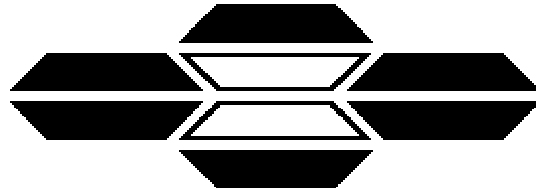
DIRECTION:
Southeast

TAKEN BY:
Brian Reed

DESCRIPTION:
Southern abutment
and underside of
G-1092 N..



Appendix C
Asbestos Sample(s)
Analytical Results



ASBESTOS TEM LABORATORIES, INC.

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

Report No. 142116

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

With Main Office Located At:
630 Bancroft Way, Berkeley, CA 94710
Ph. (510) 704-8930 Fax (510) 704-8929



ASBESTOS TEM LABORATORIES, INC



NVLAP Lab Code 200104-0

May-14-20

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

RE: LABORATORY JOB # 9092-00011
Polarized light microscopy analytical results for 11 bulk sample(s).
Job Site: Bridge G1092-North
Job No.:
Report No.: 142116

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

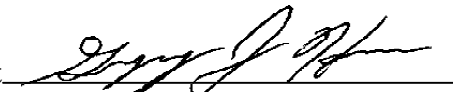
EPA Method 600/R-93/116 or 600/M4-82-020

Page: 1 of 2

Contact: Brian Reed/Robert	Samples Indicated: 11	Report No. 142116
Address: Nevada Department of 1263 South Stewart Street Carson City, NV 89712	Reg. Samples Analyzed: 11 Split Layers Analyzed: 0	Date Submitted: May-12-20 Date Reported: May-14-20
	Job Site / No. Bridge G1092-North	

SAMPLE ID	ASBESTOS % TYPE	OTHER DATA 1) Non-Asbestos Fibers 2) Matrix Materials 3) Date/Time Collected 4) Date Analyzed	DESCRIPTION
			FIELD LAB
ABCB-1 Lab ID # 9092-00011-001	None Detected	1) <1% Cellulose 2) 100-100% Clay, Qtz, Gyp, Other 3) 5-12-20 4) May-14-20	Grey concrete, under bridge support beams/concrete-N/bridge G 1092-N Concrete-Grey
Pillor Texture Lab ID # 9092-00011-002	None Detected	1) <1% Cellulose 2) 100-100% Clay, Qtz, Gyp, Other 3) 5-12-20 4) May-14-20	Brown/grey coating/texture, both bridges support pillors/bridge G 1092-N Texture-Grey
EXPB-1 Lab ID # 9092-00011-003	None Detected	1) 95-99% Cellulose 2) 1-5% Bndr, Other m.p. 3) 5-12-20 4) May-14-20	Brown expansion board, expansion joints/bridge G 1092-N fiberboard-Brown/Tan
Guard Texture Lab ID # 9092-00011-004	None Detected	1) <1% Cellulose 2) 100-100% Clay, Qtz, Gyp, Other 3) 5-12-20 4) May-14-20	Grey texturing, guard rails both bridges/bridge G 1092-N Texture-Grey
Abat-1 Lab ID # 9092-00011-005	None Detected	1) <1% Cellulose 2) 100-100% Clay, Qtz, Gyp, Other 3) 5-12-20 4) May-14-20	Red concrete, abatement-N/bridge G 1092-N Concrete-Grey
GR-1 Lab ID # 9092-00011-006	None Detected	1) <1% Cellulose 2) 100-100% Clay, Qtz, Gyp, Other 3) 5-12-20 4) May-14-20	Grey concrete, guard rails-N/bridge G 1092-N Concrete-Grey
ABCB-2 Lab ID # 9092-00011-007	None Detected	1) <1% Cellulose 2) 100-100% Clay, Qtz, Gyp, Other 3) 5-12-20 4) May-14-20	Grey concrete, under bridge concrete beam-S/bridge G 1092-N Concrete-Grey
Abat-2 Lab ID # 9092-00011-008	None Detected	1) <1% Cellulose 2) 100-100% Clay, Qtz, Gyp, Other 3) 5-12-20 4) May-14-20	Red concrete, abatement-S/bridge G 1092-N Concrete-Grey
GR-2 Lab ID # 9092-00011-009	None Detected	1) <1% Cellulose 2) 100-100% Clay, Qtz, Gyp, Other 3) 5-12-20 4) May-14-20	Grey concrete, guard rail-S/bridge G 1092-N Concrete-Grey
Pillor-1 Lab ID # 9092-00011-010	None Detected	1) <1% Cellulose 2) 100-100% Clay, Qtz, Gyp, Other 3) 5-12-20 4) May-14-20	Grey concrete, support pillor-N/bridge G 1092-N 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

Page: 2 of 2

Contact: Brian Reed/Robert	Samples Indicated: 11	Report No. 142116
Address: Nevada Department of 1263 South Stewart Street Carson City, NV 89712	Reg. Samples Analyzed: 11	Date Submitted: May-12-20
	Split Layers Analyzed: 0	Date Reported: May-14-20
Job Site / No. Bridge G1092-North		

SAMPLE ID	ASBESTOS % TYPE	OTHER DATA	DESCRIPTION
		1) Non-Asbestos Fibers 2) Matrix Materials 3) Date/Time Collected 4) Date Analyzed	FIELD LAB
Pillor-2 Lab ID # 9092-00011-011	None Detected	1) <1% Cellulose 2) 100-100% Clay, Qtz, Gyp, Other	Grey concrete, support pillor-S/bridge G 1092-N
		3) 5-12-20 4) May-14-20	Concrete-Grey
Lab ID #		1) 2) 3) 4)	
Lab ID #		1) 2) 3) 4)	
Lab ID #		1) 2) 3) 4)	
Lab ID #		1) 2) 3) 4)	
Lab ID #		1) 2) 3) 4)	
Lab ID #		1) 2) 3) 4)	
Lab ID #		1) 2) 3) 4)	
Lab ID #		1) 2) 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 Piekarz		Project Name: <u>Bridge G 1092 - North</u>		Project Number:		Date Sampled:		
Phone: 775-888-7892 Fax: 775-888-7104		Project Location: <u>North Reno</u>		Analysis Type: Abestos		Air <u>Bulk</u>		
Turn-A-Round Time: Rush 24-Hour <u>2 Day</u>		Requests: Verbals Fax		Test to First Positive:		Yes <u>No</u>		
Lab #	Sample ID	Material Description	Sample Location	Location of Materials	Quantity	Condition	Friable	Asbestos %
	<u>1</u> UBCB-1	<u>Grey concrete</u>	<u>Under Bridge support beams/concrete-N</u>	<u>Bridge G 1092 N</u>	<u>1</u>	<u>G</u>		
	<u>2</u> Pillar Text	<u>Brown/Grey coating/texture</u>	<u>Both Bridges support pillars</u>	<u>Bridge G 1092 N</u>	<u>1</u>	<u>G</u>		
	<u>3</u> Exp B-1	<u>Brown Expansion Board</u>	<u>expansion joints</u>		<u>1</u>	<u>G</u>		
	<u>4</u> Guard Texture	<u>Grey texturing</u>	<u>Guard rails Both Bridges</u>		<u>1</u>	<u>G</u>		
	<u>5</u> Abut-1	<u>Red concrete</u>	<u>Abutment -N</u>		<u>1</u>	<u>G</u>		
	<u>6</u> GR-1	<u>Grey concrete</u>	<u>Guard rails -N</u>		<u>1</u>	<u>G</u>		
	<u>7</u> UBCB-2	<u>Grey concrete</u>	<u>under Bride concrete Beam -S</u>		<u>1</u>	<u>G</u>		
	<u>8</u> Abut-2	<u>Red concret</u>	<u>Abutment -S</u>		<u>1</u>	<u>G</u>		
	<u>9</u> GR-2	<u>Grey concrete</u>	<u>Guard Rails -S</u>		<u>1</u>	<u>G</u>		
	<u>10</u> Pillar-1	<u>Grey concrete</u>	<u>Support Pillor - N</u>	<u>✓</u>	<u>1</u>	<u>G</u>		

Comments/Additional Information

MATERIAL			CONDITION	UNITS	ASBESTOS %
PFI - Pipe Fitted Insulation	VT - Vinyl Tile	GA - Gasket	G - Good	LF - Linear Feet	A - Asbestos
PRI - Pipe Run Insulation	M - Mastic	D - Debris	D - Damaged	SF - Square Feet	C - Chrysotile Asbestos
DI - 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: _____ Relinquished By: _____ Relinquished By: _____
 Date/Time: 5/12/20 10:45 Date/Time: _____ Date/Time: _____
 Received By: R. BURAC/ATEM Received By: _____ Received By: _____

5/12/2020 10:45am

Survey Data

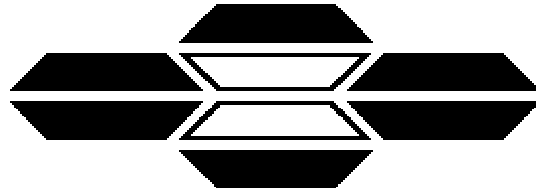
Inspectors: Brian Reed/Robert Piekarz		Project Name: <u>Bridge G-1092 North</u>		Project Number:		Date Sampled: <u>5/12/20</u>		
Phone: 775-888-7892 Fax: 775-888-7104		Project Location: <u>North Reno</u>		Analysis Type: Abestos		Air <input checked="" type="checkbox"/> Bulk <input type="checkbox"/>		
Turn-A-Round Time: Rush 24-Hour <input checked="" type="checkbox"/> <u>2 Day</u>		Requests: Verbals Fax		Test to First Positive: Yes <input checked="" type="checkbox"/> <u>No</u>				
Lab #	Sample ID	Material Description	Sample Location	Location of Materials	Quantity	Condition	Friable	Asbestos %
	<u>1</u>	<u>Pillar-2 Grey Concrete</u>	<u>Support Pillar-S</u>	<u>Bridge G-1092-N</u>	<u>1</u>	<u>G</u>		
	<u>2</u>							
	<u>3</u>							
	<u>4</u>							
	<u>5</u>							
	<u>6</u>							
	<u>7</u>							
	<u>8</u>							
	<u>9</u>							
	<u>10</u>							

Comments/Additional Information

MATERIAL			CONDITION	UNITS	ASBESTOS %
PFI - Pipe Fitted Insulation	VT - Vinyl Tile	GA - Gasket	G - Good	LF - Linear Feet	A - Asbestos
PRI - Pipe Run Insulation	M - Mastic	D - Debris	D - Damaged	SF - Square Feet	C - Chrysotile Asbestos
DI - 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: _____	Relinquished By: _____	Relinquished By: _____
Date/Time: <u>5/12/20 10:45</u>	Date/Time: _____	Date/Time: _____
Received By: <u>D. BURRIGIATEM</u>	Received By: _____	Received By: _____

5/12/2020 10:45am



ASBESTOS TEM LABORATORIES, INC.

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

Report No. 142115

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

With Main Office Located At:
630 Bancroft Way, Berkeley, CA 94710
Ph. (510) 704-8930 Fax (510) 704-8929



ASBESTOS TEM LABORATORIES, INC



NVLAP Lab Code 200104-0

May-14-20

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

RE: LABORATORY JOB Nc
Polarized light microscopy analytical results for 10 bulk sample(s) with 1 sample split(s)
Job Site: Bridge 1092 South
Job No.:
Report No.: 142115

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 2

Contact: Brian Reed/Robert	Samples Indicated: 10	Report No. 142115
Address: Nevada Department of 1263 South Stewart Street Carson City, NV 89712	Reg. Samples Analyzed: 10	Date Submitted: May-12-20
	Split Layers Analyzed: 1	Date Reported: May-14-20
	Job Site / No. Bridge 1092 South	

SAMPLE ID	ASBESTOS % TYPE	OTHER DATA 1) Non-Asbestos Fibers 2) Matrix Materials 3) Date/Time Collected 4) Date Analyzed	DESCRIPTION
			FIELD LAB
Abat-1 Lab ID # 9092-00010-001	None Detected	1) <1% Cellulose 2) 100-100% Clay, Qtz, Gyp, Other	Red concrete, abatement-S/bridge1092-S
		3) 5-12-20 4) May-14-20	Concrete-Grey
ABCB-1 Lab ID # 9092-00010-002	None Detected	1) <1% Cellulose 2) 100-100% Clay, Qtz, Gyp, Other	Gray concrete, under bridge concrete beams-S/bridge1092-S
		3) 5-12-20 4) May-14-20	Concrete-Grey
Footing-1 Lab ID # 9092-00010-003	None Detected	1) <1% Cellulose 2) 100-100% Clay, Qtz, Gyp, Other	Gray concrete, footing @ abatement-S/bridge1092-S
		3) 5-12-20 4) May-14-20	Concrete-Grey
Pillor-1 Lab ID # 9092-00010-004	None Detected	1) <1% Cellulose 2) 100-100% Clay, Qtz, Gyp, Other	Gray concrete, support pillor-N/bridge1092-S
		3) 5-12-20 4) May-14-20	Concrete-Grey
ABCB-2 Lab ID # 9092-00010-005	None Detected	1) <1% Cellulose 2) 100-100% Clay, Qtz, Gyp, Other	Gray concrete, under bridge concrete beams-S/bridge1092-S
		3) 5-12-20 4) May-14-20	Concrete-Grey
Abat-2 Lab ID # 9092-00010-006	None Detected	1) <1% Cellulose 2) 100-100% Clay, Qtz, Gyp, Other	Red concrete, abatement-N/bridge1092-S
		3) 5-12-20 4) May-14-20	Concrete-Grey
GR-1 Lab ID # 9092-00010-007	None Detected	1) <1% Cellulose 2) 100-100% Clay, Qtz, Gyp, Other	Grey concrete, guard rail-N/bridge1092-S
		3) 5-12-20 4) May-14-20	Concrete-Grey
Pillor-2 Lab ID # 9092-00010-008	None Detected	1) <1% Cellulose 2) 100-100% Clay, Qtz, Gyp, Other	Grey concrete, support pillor-S/bridge1092-S
		3) 5-12-20 4) May-14-20	Concrete-Grey
Exp-1 Split A Lab ID # 9092-00010-009A	None Detected	1) 1-5% Cellulose 2) 95-99% Bndr, Calc, Gyp, Other m.p.	Grey foam w/grey caulking, expansion joints/bridge1092-S
		3) 5-12-20 4) May-14-20	Caulk-Grey
Exp-1 Split B Lab ID # 9092-00010-009B	None Detected	1) <1% Cellulose 2) 100-100% Plast, Calc, Gyp, Other	Grey foam w/grey caulking, expansion joints/bridge1092-S
		3) 4) May-14-20	Joint Material-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

Page: 2 of 2

Contact: Brian Reed/Robert	Samples Indicated: 10	Report No. 142115
Address: Nevada Department of 1263 South Stewart Street Carson City, NV 89712	Reg. Samples Analyzed: 10	Date Submitted: May-12-20
	Split Layers Analyzed: 1	Date Reported: May-14-20
Job Site / No. Bridge 1092 South		

SAMPLE ID	ASBESTOS % TYPE	OTHER DATA	DESCRIPTION
		1) Non-Asbestos Fibers 2) Matrix Materials 3) Date/Time Collected 4) Date Analyzed	FIELD LAB
GR-2 Lab ID # 9092-00010-010	None Detected	1) <1% Cellulose 2) 100-100% Clay, Qtz, Gyp, Other	Grey concrete, guard rail-S/bridge1092-S
		3) 5-12-20 4) May-14-20	Concrete-Grey
Lab ID #		1) 2) 3) 4)	
Lab ID #		1) 2) 3) 4)	
Lab ID #		1) 2) 3) 4)	
Lab ID #		1) 2) 3) 4)	
Lab ID #		1) 2) 3) 4)	
Lab ID #		1) 2) 3) 4)	
Lab ID #		1) 2) 3) 4)	
Lab ID #		1) 2) 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 Piekarz		Project Name: <u>Bridge 1092 South</u>		Project Number:		Date Sampled: <u>5/12/20</u>			
Phone: 775-888-7892 Fax: 775-888-7104		Project Location: <u>North Reno</u>		Analysis Type: Abestos		Air <u>(BULB)</u>			
Turn-A-Round Time: Rush 24-Hour <u>(2 Day)</u>		Requests: Verbal Fax		Test to First Positive: Yes <u>(ND)</u>					
Lab #	Sample ID	Material Description	Sample Location	Location of Materials	Quantity	Condition	Friable	Asbestos %	
	<u>1</u> <u>Abut-1</u>	<u>Red concrete</u>	<u>Abutment - S</u>	<u>Bridge 1092 S</u>	<u>1</u>	<u>G</u>			
	<u>2</u> <u>UCRB-1</u>	<u>Grey concrete</u>	<u>under Bridge concrete Beams - S</u>	<u>Bridge 1092 S</u>	<u>1</u>	<u>G</u>			
	<u>3</u> <u>Footing-1</u>	<u>Grey concrete</u>	<u>Footing @ Abutment</u>		<u>1</u>	<u>G</u>			
	<u>4</u> <u>Pillar-1</u>	<u>Grey concrete support Pillar</u>	<u>Support Pillar - N</u>		<u>1</u>	<u>G</u>			
	<u>5</u> <u>UCRB-2</u>	<u>Grey concrete</u>	<u>under Bridge concrete Beams - S</u>		<u>1</u>	<u>G</u>			
	<u>6</u> <u>Abut-2</u>	<u>Red concrete</u>	<u>Abutment - N</u>		<u>1</u>	<u>G</u>			
	<u>7</u> <u>GR-1</u>	<u>Grey concrete</u>	<u>Guardrail - N</u>		<u>1</u>	<u>G</u>			
	<u>8</u> <u>Pillar-2</u>	<u>Grey concrete</u>	<u>Support Pillar - S</u>		<u>1</u>	<u>G</u>			
	<u>9</u> <u>Exp-1</u>	<u>Grey foam with Grey caulk</u>	<u>expansion joints</u>		<u>1</u>	<u>G</u>			
	<u>10</u> <u>GR-2</u>	<u>Grey concrete</u>	<u>Guard Rail - S</u>		√	<u>1</u>	<u>G</u>		

Comments/Additional Information

MATERIAL			CONDITION	UNITS	ASBESTOS %
PFI - Pipe Fitted Insulation	VT - Vinyl Tile	GA - Gasket	G - Good	LF - Linear Feet	A - Asbestos
PRI - Pipe Run Insulation	M - Mastic	D - Debris	D - Damaged	SF - Square Feet	C - Chrysotile Asbestos
DI - 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: [Signature] Relinquished By: _____ Relinquished By: _____
 Date/Time: 5/12/20 10:45 Date/Time: _____ Date/Time: _____
 Received By: R. BURRILL/ATEM Received By: _____ Received By: _____

5/12/2020 10:45am

Appendix D
Material Coating Sample(s)
Analytical Results



Alpha Analytical, Inc.
255 Glendale Ave, #21
Sparks, Nevada 89431
TEL: (775) 355-1044 FAX: (775) 355-0406
Website: www.alpha-analytical.com

May 14, 2020

Robert Piekarz
Nevada DOT Environmental (NDOT)
1263 S. Stewart St.
Carson City, NV 89712
TEL: (775) 888-7692
FAX (775) 888-7104

RE: Bridge G 1092

Order No.: NDO2005106

Dear Robert Piekarz:

The result of this report apply to the sample(s) as received.

There were no problems with the analytical events associated with this report unless noted.

Quality control data is within laboratory defined or method specified acceptance limits except if noted.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

A handwritten signature in black ink that reads "Roger Scholl".

Roger Scholl
Laboratory Director
255 Glendale Ave, #21
Sparks, Nevada 89431



Alpha Analytical, Inc.
255 Glendale Ave, #21
Sparks, Nevada 89431
TEL: (775) 355-1044 FAX: (775) 355-0406
Website: www.alpha-analytical.com

Analytical Report

WO#: NDO2005106

Report Date: 5/14/2020

CLIENT: Nevada DOT Environmental (NDOT)

Collection Date: 5/12/2020 9:15:00 AM

Project: Bridge G 1092

Lab ID: 2005106-01

Matrix: OTHER

Client Sample ID Bridge 1092 Paint-Pillor

Analyses	Result	RL	Qual	Units	Date Analyzed	Method
Chromium (Cr)	19	2.0		mg/Kg	5/12/2020	Metals by EPA 6020
Arsenic (As)	8.7	2.0		mg/Kg	5/12/2020	Metals by EPA 6020
Selenium (Se)	ND	4.0		mg/Kg	5/12/2020	Metals by EPA 6020
Silver (Ag)	ND	2.0		mg/Kg	5/12/2020	Metals by EPA 6020
Cadmium (Cd)	ND	2.0		mg/Kg	5/12/2020	Metals by EPA 6020
Barium (Ba)	5,700	2.0		mg/Kg	5/12/2020	Metals by EPA 6020
Mercury (Hg)	0.72	0.40		mg/Kg	5/12/2020	Metals by EPA 6020
Lead (Pb)	6.2	2.0		mg/Kg	5/12/2020	Metals by EPA 6020



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 Sparks, Nevada 89431
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 Website: www.alpha-analytical.com

Analytical Report

WO#: NDO2005106

Report Date: 5/14/2020

CLIENT: Nevada DOT Environmental (NDOT)

Collection Date: 5/12/2020 9:30:00 AM

Project: Bridge G 1092

Lab ID: 2005106-02

Matrix: OTHER

Client Sample ID Bridge 1092 Paint-GR

Analyses	Result	RL	Qual	Units	Date Analyzed	Method
Chromium (Cr)	24	2.0		mg/Kg	5/12/2020	Metals by EPA 6020
Arsenic (As)	14	2.0		mg/Kg	5/12/2020	Metals by EPA 6020
Selenium (Se)	ND	4.0		mg/Kg	5/12/2020	Metals by EPA 6020
Silver (Ag)	ND	2.0		mg/Kg	5/12/2020	Metals by EPA 6020
Cadmium (Cd)	ND	2.0		mg/Kg	5/12/2020	Metals by EPA 6020
Barium (Ba)	220	2.0		mg/Kg	5/12/2020	Metals by EPA 6020
Mercury (Hg)	1.2	0.40		mg/Kg	5/12/2020	Metals by EPA 6020
Lead (Pb)	12	2.0		mg/Kg	5/12/2020	Metals by EPA 6020



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 Sparks, Nevada 89431
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 Website: www.alpha-analytical.com

QC SUMMARY REPORT

WO#: 2005106

14-May-20

Client: Nevada DOT Environmental (NDOT)

Project: Bridge G 1092

TestCode: METALS_SO

Sample ID: MB-10788	SampType: MBLK	TestCode: METALS_SO	Units: mg/Kg
Client ID: PBS	Batch ID: 10788	TestNo: E200.8	
Prep Date: 5/12/2020	RunNo: 9350	SeqNo: 273409	
Analysis Date: 5/12/2020			

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium (Cr)	ND	2									
Arsenic (As)	ND	2									
Selenium (Se)	ND	4									
Silver (Ag)	ND	2									
Cadmium (Cd)	ND	2									
Barium (Ba)	ND	2									
Mercury (Hg)	ND	0.4									
Lead (Pb)	ND	2									

Sample ID: LCS-10788	SampType: LCS	TestCode: METALS_SO	Units: mg/Kg
Client ID: LCSS	Batch ID: 10788	TestNo: E200.8	
Prep Date: 5/12/2020	RunNo: 9350	SeqNo: 273410	
Analysis Date: 5/12/2020			

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium (Cr)	57.8	2	50	0	116	79.51	120.49				
Arsenic (As)	58	2	50	0	116	79.51	120.49				
Selenium (Se)	57.5	4	50	0	115	79.51	120.49				
Silver (Ag)	52.6	2	50	0	105	79.51	120.49				
Cadmium (Cd)	54.3	2	50	0	109	79.51	120.49				
Barium (Ba)	55.2	2	50	0	110	79.51	120.49				
Mercury (Hg)	0.969	0.4	1	0	96.9	79.51	120.49				
Lead (Pb)	56.9	2	50	0	114	79.51	120.49				

Sample ID: 2005102-01AMSD	SampType: MSD	TestCode: METALS_SO	Units: mg/Kg
Client ID: BatchQC	Batch ID: 10788	TestNo: E200.8	
Prep Date: 5/12/2020	RunNo: 9350	SeqNo: 273413	
Analysis Date: 5/12/2020			

Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium (Cr)	85.2	2	50	21.6	127	69.51	130.49	79	7.5	20	
Arsenic (As)	61	2	50	1.92	118	69.51	130.49	60.4	1.1	20	
Selenium (Se)	59	4	50	0	118	69.51	130.49	58.8	0.44	20	
Silver (Ag)	54.7	2	50	0	109	69.51	130.49	54	1.3	20	
Cadmium (Cd)	57.2	2	50	0	114	69.51	130.49	55.6	2.7	20	
Barium (Ba)	97.3	2	50	36.4	122	69.51	130.49	94.1	3.4	20	
Mercury (Hg)	1.07	0.4	1	0	107	69.51	130.49	1.13	5.8	20	
Lead (Pb)	62.7	2	50	2.74	120	69.51	130.49	61.4	2	20	

Qualifiers: B Analyte detected in the associated Method Blank
 ND Not Detected at the Reporting Limit
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits



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 Sparks, Nevada 89431
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 Website: www.alpha-analytical.com

QC SUMMARY REPORT

WO#: 2005106
 14-May-20

Client: Nevada DOT Environmental (NDOT)
Project: Bridge G 1092

TestCode: METALS_SO

Sample ID: 2005102-01AMSD	SampType: MSD	TestCode: METALS_SO	Units: mg/Kg								
Client ID: BatchQC	Batch ID: 10788	TestNo: E200.8									
Prep Date: 5/12/2020	RunNo: 9350	SeqNo: 273413									
Analysis Date: 5/12/2020											
Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sample ID: 2005102-01AMS	SampType: MS	TestCode: METALS_SO	Units: mg/Kg								
Client ID: BatchQC	Batch ID: 10788	TestNo: E200.8									
Prep Date: 5/12/2020	RunNo: 9350	SeqNo: 273412									
Analysis Date: 5/12/2020											
Analyte	Result	PQL	SPK Value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium (Cr)	79	2	50	21.6	115	69.51	130.49				
Arsenic (As)	60.4	2	50	1.92	117	69.51	130.49				
Selenium (Se)	58.8	4	50	0	118	69.51	130.49				
Silver (Ag)	54	2	50	0	108	69.51	130.49				
Cadmium (Cd)	55.6	2	50	0	111	69.51	130.49				
Barium (Ba)	94.1	2	50	36.4	115	69.51	130.49				
Mercury (Hg)	1.13	0.4	1	0	113	69.51	130.49				
Lead (Pb)	61.4	2	50	2.74	117	69.51	130.49				

Qualifiers: B Analyte detected in the associated Method Blank
 ND Not Detected at the Reporting Limit
 R RPD outside accepted recovery limits
 S Spike Recovery outside accepted recovery limits



Alpha Analytical, Inc.
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Sparks, Nevada 89431
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Website: www.alpha-analytical.com

Definition Only

WO#: 2005106
Date: 5/14/2020

Definitions:

ND = Not Detected

C = Reported concentration includes additional compounds uncharacteristic of common fuels and lubricants.

D = Reporting Limits were increased due to high concentrations of non-target analytes.

H = Reporting Limits were increased due to the hydrocarbons present in the sample.

J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

K = DRO concentration may include contributions from lighter-end hydrocarbons (e.g. gasoline) that elute in the DRO range.

L = DRO concentration may include contributions from heavier-end hydrocarbons (e.g. motor oil) that elute in the DRO range.

O = Reporting Limits were increased due to sample foaming.

V = Reporting Limits were increased due to high concentrations of target analytes.

X = Reporting Limits were increased due to sample matrix interferences.

Z = DRO concentration may include contributions from lighter-end (e.g. gasoline) and heavier-end (e.g. motor oil) hydrocarbons that elute in the DRO range.

S50 = The analysis of the sample required a dilution such that the surrogate concentration was diluted below the laboratory acceptance criteria. The laboratory control sample was acceptable.

S51 = Surrogate recovery could not be determined due to the presence of co-eluting hydrocarbons.

S52 = Surrogate recovery was above laboratory acceptance limits. Probable matrix effect.

S53 = Surrogate recovery was below laboratory acceptance limits. Probable matrix effect.

S54 = Surrogate recovery was below laboratory acceptance limits.

S55 = Surrogate recovery was above laboratory acceptance limits.

Report CC's Dan Twichell
Robert Piekarz

WORKORDER SUMMARY

NV

WorkOrder: NDO2005106
Report Due By: 27-May-20
EDD Required: NO

Alpha Analytical, Inc.

255 Glendale Ave, #21 Sparks, Nevada 89431
TEL: (775) 355-1044 FAX: (775) 355-0406

Report Attention: Robert Piekarz

Client:


Nevada DOT Environmental (NDOT)
1263 S. Stewart St.
Carson City, NV 89712

TEL: 7758887692
FAX: 7758887104
ProjectNo: Bridge G 1092

Date Received: 12-May-20

Alpha Sample ID	Client Sample ID	Matrix	Collection Date	No. of Bottles			Requested Tests						Sample Remarks	
				Alpha	Sub	TAT	METALS_SO							
NDO2005106-01	Bridge 1092 Paint-Pillar	OTHER	5/12/2020 9:15:00 AM	1	0	10	A - As, Ba, Cd, Cr, Pb, Hg, Ag, Se							
NDO2005106-02	Bridge 1092 Paint-GR	OTHER	5/12/2020 9:30:00 AM	1	0	10	A - As, Ba, Cd, Cr, Pb, Hg, Ag, Se							

Comments: Paint chips.

Signature	Print Name	Company	Date/Time
	Daija Nordyke	Alpha Analytical, Inc.	05.12.20 10:51

NOTE: Samples are discarded 60 days after sample receipt unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

Billing Information:
 Company: NDOT
 Attn: R. Pickorcz
 Address: 1263 S. Stewart St
Carson City NV 89712
 City, State, Zip: Carson City NV 89712
 Phone Number: 775 888 7692 Fax: _____



Alpha Analytical, Inc.
 Main Laboratory: 255 Glendale Ave, Suite 21 Sparks, NV 89431
Satellite Service Centers:
 Northern CA: 9891 Horn Road, Suite C, Rancho Cordova, CA 95827
 Southern CA: 1007 E. Dominguez St., Suite O, Carson, CA 90746
 Northern NV: 1250 Lamoille Hwy., #310, Elko, NV 89801
 Southern NV: 6255 McLeod Ave, Suite 24, Las Vegas, NV 89120

Phone: 775-355-1044
 Fax: 775-355-0406
 Phone: 916-366-9089
 Phone: 714-386-2901
 Phone: 775-388-7043
 Phone: 702-281-4848

14659

Page # _____ of _____

Consultant/Client Info: Job and Purchase Order Info: Report Attention/Project Manager: QC Deliverable Info:

Company: NDOT
 Address: _____
 City, State, Zip: _____

Job # _____
 Job Name: Bridge C 1092
 P.O. #: _____

Name: R. Pickorcz
 Email Address: rpickorcz@dot.nv.gov
 Phone #: 775 888 7692
 Cell #: _____

EDD Required? Yes / No _____ EDF Required? Yes / No _____
 Global ID: _____
 Data Validation Packages: III or IV

Samples Collected from which State? (circle one) AR CA KS NV OR WA DOD Site Other

Time Sampled (HHMM)	Date Sampled (MM/DD)	Matrix* (See Key Below)	Lab ID Number (For Lab Use Only)	Sample Description	TAT	# Containers* (See Key Below)	Field Filtered?		Analysis Requested										Remarks
							Yes	No											
0915	5/12	OT	ND02005106 - 01	Bridge 1092 Paint - Pillor stand	1-OT				RCRA 8 Metals Totals										
0930	5/12	OT	02	Bridge 1092 Paint - G-R Stand	1-OT														

ADDITIONAL INSTRUCTIONS:
 I (field sampler) attest to the validity and authenticity of this sample(s). I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. NAC 445.0636 (c) (2).

Sampled By: RAD
 Relinquished by: (Signature/Affiliation): [Signature] NDOT Date: 5/12/20 Time: 10:45
 Received by: (Signature/Affiliation): [Signature] Date: 5.12.20 Time: 10:45
 Relinquished by: (Signature/Affiliation): _____ Date: _____ Time: _____
 Received by: (Signature/Affiliation): _____ Date: _____ Time: _____

* Key: AQ - Aqueous WA - Waste OT - Other So - Soil ** L - Liter V - VOA S - Soil Jar O - Orbo T - Tedlar B - Brass P - Plastic OT - Other

NOTE: Samples are discarded 60 days after sample receipt unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.

Appendix E
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 11/09/2023

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: Reno, Nevada

Dates: November 9, 2022

Director of Training: John McGinnis



Expiration: November 9, 2023

Certificate Number 51663 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: Reno, Nevada

Expiration: November 9, 2023

Dates: November 9, 2022

Director of Training: John McGinnis



Certificate Number 51677 PR