



Transfer Patch

Real Property Management  
Project Files- Document Imaging Lead Sheet

---

PROJECT # **ASBESTOS SURVEY**



PROJECT NAME

**LIMITED BULK SURVEY  
BRIDGER CENTENNIAL BUILDINGS  
225 BRIDGER AVE-LAS VEGAS, NV  
JANUARY23, 1997**

DOC TYPE **RPTS**





**Converse Environmental  
Consultants Southwest, Inc.**

**Consulting Engineering  
and Applied Sciences**

**LIMITED ASBESTOS BULK  
SAMPLE SURVEY**



**BRIDGER BUILDING  
225 BRIDGER AVENUE  
LAS VEGAS, NEVADA**



A Wholly Owned Subsidiary of The Converse Professional Group

# Converse Environmental Consultants Southwest, Inc.

Celebrating 50 Years of Dedication in  
Engineering and Environmental Sciences

## LIMITED ASBESTOS BULK SAMPLE SURVEY

BRIDGER BUILDING  
225 BRIDGER AVENUE  
LAS VEGAS, NEVADA

Prepared for:

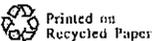
Clark County General Services  
500 South Grand Central Parkway  
Las Vegas, NV 89155

Converse Project No. 96-43996-01

January 23, 1996

• **Converse Environmental Consultants Southwest, Inc.**  
• 731 Pilot Road, Suite H  
• Las Vegas, Nevada 89119-4429  
• Telephone: (702) 263-7600  
• Facsimile: (702) 269-8353

47/94AG





A Wholly Owned Subsidiary of The Converse Professional Group

# Converse Environmental Consultants Southwest, Inc.

Celebrating 50 Years of Dedication in  
Engineering and Environmental Sciences

January 23, 1997

96-43996-01

Mr. Brian Connolly  
Clark County General Services  
500 South Grand Central Parkway  
Las Vegas, NV 89155

Subject: Limited Asbestos Survey - Bridger Building  
225 Bridger Avenue  
Las Vegas, Nevada

Dear Mr. Connolly:

We are pleased to submit the results of our limited asbestos survey made at the subject site. The survey was performed in general accordance with your RFP Number 424-96, Agreement for Asbestos Consulting Services and Asbestos Abatement Monitoring, dated July 18, 1996

The asbestos survey consisted of a visual survey, bulk sample collection, laboratory analysis, and the preparation of this report. Friable and non-friable building materials were found to contain asbestos during our survey. Recommendations regarding these asbestos-containing material are identified in our report.

If you have any questions concerning information contained in this report, please contact us at your convenience.

Respectfully submitted,

CONVERSE ENVIRONMENTAL CONSULTANTS SOUTHWEST, INC.



Jeffrey M. Dix, REP  
Department Manager

JMD:gm

Converse Environmental Consultants Southwest, Inc.  
731 Pilot Road, Suite H  
Las Vegas, Nevada 89119-4429

Telephone: (702) 263-7600  
Facsimile: (702) 269-8353

47/94AG

# *ASBESTOS SURVEY*

## TABLE OF CONTENTS

	<u>PAGE</u>
LIMITED ASBESTOS SURVEY	1
INTRODUCTION	1
CREDENTIALS	1
SURVEY	1
BULK SAMPLE SURVEY	1
METHODOLOGY	1
INTERVIEWS	1
BULK SAMPLE SURVEY	2
LABORATORY TESTING	3
BULK SAMPLING	3
ASBESTOS BULK SURVEY FINDINGS	3
CONCLUSIONS AND RECOMMENDATIONS	5
CLOSURE	6

---

APPENDIX A - INSPECTOR CREDENTIALS  
APPENDIX B - LABORATORY REPORTS  
APPENDIX C - FIELD SAMPLE DATA SHEETS

# LIMITED ASBESTOS SURVEY

## INTRODUCTION

On December 31, 1996 and January 2, 1997 Converse Environmental Consultants Southwest, Inc. (Converse) conducted an asbestos bulk sample survey at the Bridger Building located at 225 Bridger Avenue in Las Vegas, Nevada.

### CREDENTIALS

The survey was performed by John M. Watkins and Emeal Blackman, both are accredited and licensed inspectors in the State of Nevada. Copies of these inspector's certification/accreditation are enclosed in Appendix A.

### SURVEY

The purpose of the bulk sample survey was to identify asbestos-containing materials (ACMs) building materials utilized during construction of the buildings at the site. Friable asbestos is considered hazardous and refers to materials which can be crushed, pulverized, or reduced to powder by hand pressure when dry. Non-friable asbestos can be rendered friable by such actions as sanding, sawing, drilling, or breaking into pieces. The survey generally followed current recommended OSHA (1994), and EPA guidelines for surveying of ACM (EPA, 1985).

### BULK SAMPLE SURVEY

The purpose of the bulk sample survey was to identify friable and non-friable asbestos-containing materials (ACMs) building materials utilized during construction of the building.

### METHODOLOGY

### INTERVIEWS

According to Mr. Brian Connolly, Clark County General Services Representative, there are original blueprints for the building at the subject site but he has no information on the current configuration of partition walls and recent renovations. The Blueprints available for review included only limited mechanical, plumbing and electrical drawings. These drawings were a limited source of information on

current building conditions. Existing floor plans were available. This building was reportedly built before 1980.

Previous survey information for the building includes three reports that were generated by two firms: Ab-Haz Environmental and University Associates.

- The November 10, 1987 University Associates report indicated that Structural Fireproofing, Pipe Insulation, Tank Insulation, Specialty Caulking, and Floortile tested positive for asbestos.
- The December 2, 1991 Ab-Haz report indicated that Structural Fireproofing tested positive for asbestos. In the February 4, 1994 Ab-Haz report, Structural Fireproofing, Sheet Floor Covering and Pipe insulation was found to contain asbestos.

Upon review of the conditions at the site, we found that many materials remained untested and would be the focus of our study. There were many samples taken in these three previous surveys of primarily two materials. Of the fifty-six pipe insulation samples analyzed, fifty-one tested positive for asbestos and of the seventy-two structural fireproofing samples analyzed, all tested positive for asbestos. Exterior Wall Plaster samples were taken on three floors, all of which contained a trace level of asbestos. The information generated by these previous surveys is assumed to be correct and complete for the materials tested. This information is included into the survey data generated by our study.

### **BULK SAMPLE SURVEY**

Our visual survey was performed to classify each suspected building material by location and condition in order to establish homogenous areas for bulk sample collection. Homogeneous areas refer to areas in which similar application, age and appearance of building materials exist.

Following the visual portion of the survey, bulk samples were collected from areas representing the homogenous use of suspect building materials. A summary of these samples is presented in Appendix B.

In general, bulk samples were obtained by (1) adequately wetting the sample area with a water and surfactant mixture, and (2) placing bulk pieces of the building construction materials into labeled plastic bags. Where possible, bulk samples were obtained to the depth of the affected area. Bulk samples were transferred to an analytical laboratory with applicable chain-of-custody documentation.

### LABORATORY TESTING

#### **BULK SAMPLING**

Seventy (70) bulk samples were analyzed by Converse Consultants Mountain Region (CCMR) of Reno, Nevada. Four of the seventy samples were sent to Forensic Analytical Specialties, Inc. (FASI) of Hayward, California for quality control purposes. CCMR used the "point counting" method of analysis on two bulk samples to confirm asbestos content. CCMR and FASI are accredited by the EPA for asbestos analysis. All samples submitted for primary testing were analyzed by Polarized Light Microscopy (PLM). Laboratory analysis reports for these samples are enclosed in Appendix C.

### ASBESTOS BULK SURVEY FINDINGS

Current State and Federal standards define an "asbestos-containing material as any material containing asbestos in excess of one percent by weight." Based on laboratory results and our survey, the materials which were tested and found to contain in excess of one percent asbestos are presented below:

<u>Location</u>	<u>Material</u>	<u>Friable?</u>	<u>Approximate Quantity</u>
Roof	Roof Mastic	No	5 Gal.
	<i>Tank Insulation</i>	Yes	250 s.f.
	Caulking	Yes	1 Gal.
10th	<i>Structural Fireproofing</i>	Yes	9,600 s.f.
	<i>Pipe Insulation</i>	Yes	200 l.f.
	9"x9" Floor tile, tan	No	2,500 s.f.
9th	<i>Structural Fireproofing</i>	Yes	9,600 s.f.
	<i>Pipe Insulation</i>	Yes	200 l.f.
	<i>12"x12" Floor tile, white</i>	No	150 s.f.
	9"x9" Floor tile, tan	No	2,500 s.f.
	Drywall Compound	No	N/A

Location	Material	Friable?	Approximate Quantity
8th	<i>Structural Fireproofing</i>	Yes	9,600 s.f.
	<i>Pipe Insulation</i>	Yes	200 l.f.
	<i>Sheet floor covering</i>	Yes	200 s.f.
	9"x9" Floortile, tan	No	9,000 s.f.
7th	<i>Structural Fireproofing</i>	Yes	9,600 s.f.
	<i>Pipe Insulation</i>	Yes	200 l.f.
	<i>12"x12" Floor tile, white</i>	No	75 s.f.
	9"x9" Floortile, tan	No	2,400 s.f.
6th	<i>Structural Fireproofing</i>	Yes	9,600 s.f.
	<i>Pipe Insulation</i>	Yes	200 l.f.
	12"x12" Floortile, tan	No	85 s.f.
	<i>12"x12" Floortile, white</i>	No	45 s.f.
	Floortile adhesive	No	Include above
5th	<i>Structural Fireproofing</i>	Yes	9,600 s.f.
	<i>Pipe Insulation</i>	Yes	200 l.f.
	9"x9" Floor tile, tan	No	2400 s.f.
	Floortile adhesive	No	Included above
4th	<i>Structural Fireproofing</i>	Yes	10,100 s.f.
	<i>Pipe Insulation</i>	Yes	400 l.f.
3rd	<i>Structural Fireproofing</i>	Yes	10,100 s.f.
	<i>Pipe Insulation</i>	Yes	400 l.f.
2nd	<i>Structural Fireproofing</i>	Yes	10,100 s.f.
	<i>Pipe Insulation</i>	Yes	400 l.f.
1st	<i>Structural Fireproofing</i>	Yes	10,100 s.f.
	<i>Pipe Insulation</i>	Yes	400 l.f.
	9"x9" Floor tile, tan	No	230 s.f.
	Floortile adhesive	No	Included above

\* - Quantities for this item is based on square footage of floorspace.

Materials listed in *italics* were tested by University Associates or Ab-Haz

- The materials listed above were observed to be in a condition that ranged from good to poor with small amounts of localized damage, presumably due to water damage, physical contact and other sources.

- On floors five through ten, 9"x9" tan floortile and adhesive was found under carpet and in exposed areas. Random areas throughout these floors were viewed to determine extent of the floortile. The quantities listed above are estimates.
- The estimated quantities above for the pipe insulation includes pipe straight runs and pipe fittings.
- Quality control sample results were consistent with primary sample results.

### CONCLUSIONS AND RECOMMENDATIONS

On the basis of the laboratory analysis and our survey, friable and non-friable ACMs were identified in our study at this site. In general, these material were found to range from fair to good condition with small amounts of localized damage, presumably due to physical contact, water damage and other sources.

The following recommendations apply if demolition occurs where these ACMs are found. Regulations require removal of materials that are friable or will become friable during renovation prior to building renovation. Per EPA regulations and guidance documents regarding demolition, this material should be considered regulated ACM and be removed prior to demolition.

Regarding the removal of ACMs found at the subject site, we recommend the following coordinated response actions, that at a minimum, should be undertaken prior to demolition:

1. A qualified asbestos abatement contractor licensed in the State of Nevada should perform any actions involving the removal of ACMs. Removal activities should conform to local, state, and federal laws, ordinances and regulations.
2. A qualified asbestos consultant licensed in the State of Nevada should be retained to assist in the design of the abatement project and to perform air quality sampling during and after the removal activities.
3. Notification of the authorities (OSHA and EPA) regulating the abatement of asbestos will be necessary prior to commencing any response action.

Until the building is demolished or all ACMs are abated, steps should be taken to notify building occupants of the presence of ACMs in occupied buildings so that exposure to airborne asbestos fibers can be reduced. If these ACMs remain in place and are not disturbed, the probability for significant exposure to airborne asbestos fibers by building occupants is low. Asbestos specific training is recommended for personnel working on ACMs or materials that are presumed ACMs, and for personnel performing cleaning activities where ACMs are located.

In our opinion, a management plan should be implemented to manage ACMs at this site until the building is demolished or all ACMs have been abated at some time in the future. One element of the management plan, an Operations and Maintenance program would allow ACMs that are in good condition to remain in place if they remain undisturbed. The asbestos management plan will reduce both building occupant exposure to asbestos and the liability associated with ownership and/or operation of a building containing ACMs.

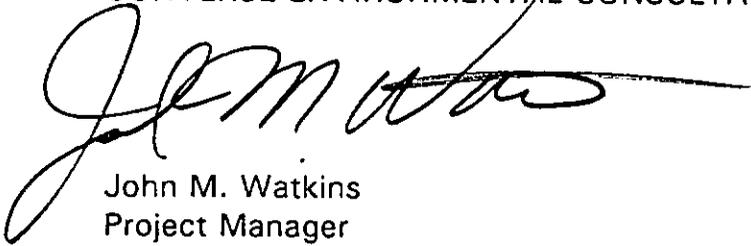
#### CLOSURE

This report is for the use of the Clark County General Services as it applies to the site listed above. Converse is not responsible for any claims or damages associated with interpretation of available information. This assessment should not be regarded as a guarantee that no further asbestos, beyond that which was suspected to be present (and sampled) during our investigation, is present at the property. In addition, asbestos is usually not distributed uniformly throughout a material and Converse cannot guarantee that all areas sampled are exactly as represented throughout the entire facility. In the event that changes in the nature of the property occur, or additional relevant information about the property is brought to our attention, the recommendations contained in this assessment may not be valid unless these changes and additional relevant information are reviewed and the recommendations of this assessment are modified or verified in writing.

Thank you for the opportunity to be of service. Should you have any questions or comments regarding this report, please do not hesitate to call.

Respectfully submitted,

CONVERSE ENVIRONMENTAL CONSULTANTS SOUTHWEST, INC.



John M. Watkins  
Project Manager

Reviewed by,



Jeffrey M. Dix, REP  
Department Manager

JMW:JMD:gm  
47/94AG

Encl.: Appendices A, B and C

Dist: 2/Addressee

**APPENDIX A**

1994-1995

**INSPECTOR CREDENTIALS**

XXXXXXXXXXXXXXXXXXXX

Date 2/12/96  
License No. IPM0199

INSPECTOR  
PROJECT DESIGNER  
PROJECT MONITOR

*John Michael Watkins*  
\_\_\_\_\_  
Licensee Signature

[Wallet Card - Fold Here]

*John*

STATE OF NEVADA  
DEPARTMENT OF BUSINESS AND INDUSTRY  
DIVISION OF INDUSTRIAL RELATIONS  
OCCUPATIONAL SAFETY AND HEALTH  
ENFORCEMENT SECTION

ASBESTOS ABATEMENT CONSULTANT  
JOHN MICHAEL WATKINS  
CONVERSE ENVIRON CONSULTANTS

HAS PAID THE FEE REQUIRED BY CHAPTER 618 OF N.A.C. FOR THE  
2/1/97  
YEAR EXPIRING

(Rev. 12/94)

(D)-1656



STATE OF NEVADA  
DEPARTMENT OF BUSINESS AND INDUSTRY  
DIVISION OF INDUSTRIAL RELATIONS  
OCCUPATIONAL SAFETY AND HEALTH ENFORCEMENT SECTION  
**ASBESTOS CONTROL PROGRAM**

Date 4/25/96  
License No. IM0610

INSPECTOR  
PROJECT MONITOR

Date	4/25/96	License No.	IM0610
------	---------	-------------	--------

THE ASBESTOS ABATEMENT CONSULTANT NAMED BELOW IS  
LICENSED UNDER THE PROVISIONS OF CHAPTER 618 OF N.R.S. AND N.A.C. FOR THE YEAR  
EXPIRING 3/15/97

EMEAL BLACKMAN  
CONVERSE ENVIRONMENTAL CONSULTANTS SW  
731 PILOT ROAD SUITE II  
LAS VEGAS NV 89119

*[Signature]*  
Licensee Signature

[Wallet Card - Fold Here]

*[Signature]*  
STATE OF NEVADA  
DEPARTMENT OF BUSINESS AND INDUSTRY  
DIVISION OF INDUSTRIAL RELATIONS  
OCCUPATIONAL SAFETY AND HEALTH  
ENFORCEMENT SECTION

ASBESTOS ABATEMENT CONSULTANT  
EMEAL BLACKMAN  
CONVERSE ENVIRON CONSULTANTS

HAS PAID THE FEE REQUIRED BY CHAPTER 618 OF N.A.C. FOR THE  
YEAR EXPIRING 3/15/97

(Rev. 12/91)

(1) 3656

Converse Environmental Consultants Southwest, Inc.





A Wholly Owned Subsidiary of The Converse Professional Group

# Converse Consultants Southwest, Inc.

Celebrating 50 Years of Dedication in  
Engineering and Environmental Sciences

## POLARIZED LIGHT MICROSCOPY ANALYSIS REPORT

Client: CECSW  
731 PILOT ROAD, SUITE H  
LAS VEGAS, NEVADA 89119-4429

Account: NA  
Contact: JOHN WATKINS  
Project No: 9643995-01  
CLARK COUNTY GENERAL SERVICES

Date Received: 01/06/97  
Data Analyzed: 01/06&07/97  
Date Reported: 01/08/97  
Reported To: JOHN WATKINS  
Submitted By: FEDERAL EXPRESS  
Report No.: 71-34682  
P.O. #: NONE PROVIDED

I certify that these results are accurate for the samples obtained and comply with accepted methods of analysis.

Lab Manager, Dan R. Dolk

Analyst, Dan R. Dolk

RESULTS: LAB SAMPLE # LAB DESCRIPTION LOCATION	CLIENT SAMPLE #	PERCENT. & TYPE OF ASBESTOS	PERCENT. & TYPE OF NON-ASBESTOS	LAYER* -LH APPEARANCE* -F-NF
34682 Grey Ceiling Tile 1st Floor North, East Court Room West Side	BB-CT-01	None Detected	30% Cellulose 60% Mineral Wool 5% Mineral Cleavages 5% Paint	I F
34683 Grey Ceiling Tile 1st Floor North East Court Room East Side	BB-CT-102	None Detected	20% Cellulose 65% Mineral Wool 10% Mineral Cleavages 5% Paint	I F
34684 Grey Ceiling Tile 1st Floor North East Court Room North Central	BB-CT-103	None Detected	20% Cellulose 65% Mineral Wool 10% Mineral Cleavages 5% Paint	I F
34685 Grey Ceiling Tile Treasurer (controller) Office Area	BB-CT-104	None Detected	25% Cellulose 60% Mineral Wool 10% Mineral Cleavages 5% Paint	I F
34686 Grey Ceiling Tile Treasurer (Controller) Office Area	BB-CT-105	None Detected	25% Cellulose 60% Mineral Wool 10% Mineral Cleavages 5% Paint	I F
34687 Grey Ceiling Tile Treasurer (controller) Office Area	BB-CT-106	None Detected	15% Cellulose 55% Mineral Wool 10% Mineral Cleavages 5% Paint 15% Perlite	I F

Converse Consultants Southwest, Inc.  
4840 Mill Street, Suite 5  
Reno, Nevada 89502

Telephone: (702) 856-3833  
Facsimile: (702) 856-3513



A Wholly Owned Subsidiary of The Converse Professional Group

# Converse Consultants Southwest, Inc.

Celebrating 50 Years of Dedication in  
Engineering and Environmental Sciences

## POLARIZED LIGHT MICROSCOPY ANALYSIS REPORT

Client: CECSW  
731 PILOT ROAD, SUITE H  
LAS VEGAS, NEVADA 89119-4429  
Account: NA  
Contact: JOHN WATKINS  
Project No: 9643995-01  
CLARK COUNTY GENERAL SERVICES

Date Received: 01/06/97  
Data Analyzed: 01/06&07/97  
Date Reported: 01/08/97  
Reported To: JOHN WATKINS  
Submitted By: FEDERAL EXPRESS  
Report No.: 71-34682  
P.O. #: NONE PROVIDED

Verify that these results are accurate for the samples obtained and comply with accepted methods of analysis.

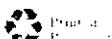
Lab Manager, Dan R. Dolk

Analyst, Dan R. Dolk

RESULTS: LAB. SAMPLE # LAB. DESCRIPTION LOCATION	CLIENT SAMPLE #	PERCENT & TYPE OF ASBESTOS	PERCENT & TYPE OF NON-ASBESTOS	LAYER* I-H APPEARANCE* F-NF
34682 Grey Ceiling Tile 1st Floor North, East Court Room West Side	BB-CT-01	None Detected	30% Cellulose 60% Mineral Wool 5% Mineral Cleavages 5% Paint	I F
34683 Grey Ceiling Tile 1st Floor North East Court Room East Side	BB-CT-102	None Detected	20% Cellulose 65% Mineral Wool 10% Mineral Cleavages 5% Paint	I F
34684 Grey Ceiling Tile 1st Floor North East Court Room North Central	BB-CT-103	None Detected	20% Cellulose 65% Mineral Wool 10% Mineral Cleavages 5% Paint	I F
34685 Grey Ceiling Tile Treasurer (controller) Office Area	BB-CT-104	None Detected	25% Cellulose 60% Mineral Wool 10% Mineral Cleavages 5% Paint	I F
34686 Grey Ceiling Tile Treasurer (Controller) Office Area	BB-CT-105	None Detected	25% Cellulose 60% Mineral Wool 10% Mineral Cleavages 5% Paint	I F
34687 Grey Ceiling Tile Treasurer (controller) Office Area	BB-CT-106	None Detected	15% Cellulose 55% Mineral Wool 10% Mineral Cleavages 5% Paint 15% Perlite	I F

Converse Consultants Southwest, Inc.  
4840 Mill Street, Suite 5  
Reno, Nevada 89502

Telephone: (702) 856-3833  
Facsimile: (702) 856-3513



RESULTS: LAB SAMPLE # LAB DESCRIPTION LOCATION	CLIENT SAMPLE #	PERCENT & TYPE OF ASBESTOS	PERCENT & TYPE OF NON-ASBESTOS	LAYER* FH APPEARANCE* F-NF
4688a White Plaster 1st Floor North East Courtroom	BB-IWP-107a	None Detected	<1% Cellulose 25% Carbonate Binders 30% Aggregate 45% Mineral Cleavages	I F
4688b Tan Plaster 1st Floor North East Courtroom	BB-IWP-107b	None Detected	25% Binders 50% Aggregate 25% Mineral Cleavages	I NF
4688c Grey Plaster 1st Floor North East Courtroom	BB-IWP-107c	None Detected	30% Binders 40% Aggregate 30% Mineral Cleavages	I NF
46889a White Plaster 1st Floor North Entrance Area	BB-IWP-108a	None Detected	5% Cellulose 65% Carbonate Binders 30% Mineral Cleavages	I F
46889b Tan Plaster 1st Floor North Entrance Area	BB-IWP-108b	None Detected	5% Cellulose 30% Binders 40% Aggregate 25% Mineral Cleavages	I F
46889c Grey Plaster 1st Floor North Entrance Area	BB-IWP-108c	None Detected	50% Binders 50% Mineral Cleavages	I F
4690 Grey Plaster 1st Floor Central Area	BB-IWP-109	None Detected	<1% Cellulose 30% Binders 40% Aggregate 30% Mineral Cleavages	I F
4691a Grey Floor Tile 1st Floor Hallway to West Exit	BB-FT-110a	None Detected	<1% Cellulose 40% Carbonate Binders 30% Organic Binders 30% Mineral Cleavages	I F
4691b Light Mastic 1st Floor Hallway to West Exit	BB-FT-110b	None Detected	5% Cellulose 20% Carbonate Binders 55% Organic Binders 20% Mineral Cleavages	I F
4692a Grey Floor Tile North Storage Shower Area	BB-FT-111a	None Detected	55% Carbonate Binders 40% Organic Binders 5% Mineral Cleavages	I NF
4692b Light Brown Mastic North Storage Shower Area	BB-FT-111b	None Detected	5% Cellulose <1% Glass Fibers 20% Carbonate Binders 60% Organic Binders 15% Mineral Cleavages	I F
4693 Tan Adhesive 1st Floor North East Court Room	BB-WFA-112	None Detected	80% Organic Binders 20% Mineral Cleavages	I NF

RESULTS: LAB SAMPLE # LAB DESCRIPTION LOCATION	CLIENT SAMPLE #	PERCENT & TYPE OF ASBESTOS	PERCENT & TYPE OF NON-ASBESTOS	LAYER* I-H APPEARANCE* F-NF
34694a Yellow Floor Tile 9"x9" 1st Floor Vault	BB-FT-113a	3-5% Chrysotile	45% Carbonate Binders 30% Organic Binders 20% Mineral Cleavages	I F
34694b Black Mastic 1st Floor Vault	BB-FT-113b	10-20% Chrysotile	60% Organic Binders 20% Mineral Cleavages	I F
34695 Yellow Ceiling Tile 1st Floor Vault	BB-CT-114	None Detected	90% Wood Fibers 5% Binders 5% Paint	I F
34696 Yellow Ceiling Tile 1st Floor Vault	BB-CT-115	None Detected	90% Wood Fibers 5% Binders 5% Paint	I F
34697 Yellow Ceiling Tile 1st Floor Vault	BB-CT-16	None Detected	90% Wood Fibers 5% Binders 5% Paint	I F
34968 White Duct Tape 4th Garage Level	BB-DI-117	None Detected	60% Cellulose 20% Organic Binders 20% Mineral Cleavages	I F
34699 Grey Plaster 4th Garage Level	BB-EWP-118	None Detected	<1% Cellulose 50% Binders 50% Aggregate	I F
34700 Grey Plaster 4th Garage Level	BB-CP-119	None Detected	30% Binders 40% Aggregate 30% Mineral Cleavages	I NF
34701 Grey Plaster 4th Garage Level	BB-CP-120	None Detected	<1% Cellulose 30% Binders 50% Aggregate 20% Mineral Cleavages	I F
34702 Grey Plaster 4th Garage Level	BB-CP-121	None Detected	30% Binders 50% Aggregate 20% Mineral Cleavages	I NF
34703 Grey Plaster 4th Garage Level	BB-CP-122	None Detected	<1% Cellulose 30% Binders 40% Aggregate 30% Mineral Cleavages	I F
34704 Grey Plaster 4th Garage Level	BB-CP-123	None Detected	30% Binders 50% Aggregate 20% Mineral Cleavages	I NF
34705 Light Grey Weaving 4th Garage Level	BB-DI-124	None Detected	60% Cellulose 25% Organic Binders 15% Mineral Cleavages	I F
34706 Cream Weaving 4th Garage Level	BB-DI-125	None Detected	60% Cellulose 25% Organic Binders 15% Mineral Cleavages	I F

RESULTS: LAB SAMPLE # LAB DESCRIPTION LOCATION	CLIENT SAMPLE #	PERCENT & TYPE OF ASBESTOS	PERCENT & TYPE OF NON-ASBESTOS	LAYER* I-H APPEARANCE* F-NF
34707 Grey Ceiling Tile 5th Floor Near Elevators	BB-CT-126	None Detected	28% Cellulose 70% Mineral Wool 2% Paint	I F
34708 Yellow Mastic 5th Floor North side Office hallway	BB-CA-127	None Detected	2% Cellulose 3% Glass Fibers 75% Organic Binders 20% Mineral Cleavages	I F
34709a Cream Floor Tile 9"x9" 5th Floor Men's Rest Room	BB-FT-128a	>1-3% Chrysotile	47% Carbonate Binders 40% Organic Binders 10% Mineral Cleavages	I F
34709b Black Mastic 5th Floor Men's Rest Room	BB-FT-128b	5-10% Chrysotile	50% Organic Binders 40% Mineral Cleavages	I F
34710 Black Adhesive Electrical Room Across Mens Room on 5th Floor	BB-FTA-129	None Detected	5% Cellulose 5% Synthetic 70% Organic Binders 20% Mineral Cleavages	I F
34711a Yellow Floor Tile 9"x9" 5th Floor Break Room	BB-FT-130a	>1-3% Chrysotile	60% Carbonate Binders 30% Organic Binders 7% Mineral Cleavages	I F
34711b Black Mastic 5th Floor Break Room	BB-FT-130b	3-5% Chrysotile	70% Organic Binders 25% Mineral Cleavages	I F
34712a Beige Floor Tile 6th Floor Closet Area Side of Floor	BB-FT-131a	3-5% Chrysotile	55% Carbonate Binders 30% Organic Binders 10% Mineral Cleavages	I F
34712b Grey Floor Tile 12"x12" 6th Floor Closet Area Side of Floor	BB-FT-131b	>1-3% Chrysotile	57% Carbonate Binders 30% Organic Binders 10% Mineral Cleavages	I F
34713a Cream Floor Tile 9"x9" 6th Floor Closet Area West Side Below Sample #BB- FT-131	BB-FT-132a	>1-3% Chrysotile	60% Carbonate Binders 30% Organic Binders 7% Mineral Cleavages	I F
34713b Tan Mastic 6th Floor Closet Area West Side Below Sample #BB- FT-131	BB-FT-132b	None Detected	5% Cellulose 20% Carbonate Binders 70% Organic Binders 5% Mineral Cleavages	I F
34713c Black Mastic 6th Floor Closet Area West Side Below Sample #BB- FT-131	BB-FT-132c	5-10% Chrysotile	70% Organic Binders 20% Mineral Cleavages	I F

RESULTS: LAB SAMPLE # LAB DESCRIPTION LOCATION	CLIENT SAMPLE #	PERCENT. & TYPE OF ASBESTOS	PERCENT. & TYPE OF NON-ASBESTOS	LAYER* I-H APPEARANCE* F-NF
34714 Grey Floor Tile 6th floor closet Area East Side of Floor	BB-FT-133	None Detected	<1% Cellulose 55% Carbonate Binders 30% Organic Binders 15% Mineral Cleavages	I F
34715a Grey Floor Tile 12"x12" 6th Floor Closet Area East Side of Floor	BB-FT-134a	<1% Chrysotile	55% Carbonate Binders 30% Organic Binders 15% Mineral Cleavages	I F
34715b Yellow Mastic 6th Floor Closet Area East Side of Floor	BB-FT-134b	None Detected	5% Cellulose <1% Glass Fibers 5% Synthetic 60% Organic Binders 30% Mineral Cleavages	I F
34716a Grey Floor Tile Below Sample BB-FT-134a	BB-FT-135a	None Detected	60% Carbonate Binders 30% Organic Binders 10% Mineral Cleavages	I F
34716b Tan Mastic Below Sample BB-FT-134b	BB-FT-135b	None Detected	<1% Cellulose <1% Synthetic 15% Carbonate Binders 80% Organic Binders 5% Mineral Cleavages	I F
34717a Beige Floor Tile 6th Floor East Closet Area	BB-FT-136a	None Detected	<1% Cellulose 60% Carbonate Binders 30% Organic Binders 10% Mineral Cleavages	I F
34717b Brown Mastic 6th Floor East Closet Area	BB-FT-136b	None Detected	5% Cellulose 75% Organic Binders 20% Mineral Cleavages	I F
34717c Grey Floor Tile 6th Floor East Closet Area	BB-FT-136c	None Detected	<1% Cellulose 50% Carbonate Binders 30% Organic Binders 20% Mineral Cleavages	I F
34718 Grey Ceiling Tile North Side office, 7th Floor	BB-CT-137	None Detected	10% Cellulose 75% Mineral Wool 10% Mineral Cleavages 5% Paint	I F
34719 Tan Ceiling Tile North Side Offices, 7th Floor	BB-CT-138	None Detected	5% Cellulose 75% Mineral Wool 15% Mineral Cleavages 5% Paint	I F
34720 Grey Ceiling Tile North Side Offices, 7th Floor	BB-CT-139	<1% Chrysotile	10% Cellulose 65% Mineral Wool 20% Mineral Cleavages 5% Paint	I F
34721 Yellow Ceiling Tile Womens Rest Room	BB-CT-140	None Detected	<1% Cellulose 70% Glass Fibers 25% Binders 5% Paint	I F

RESULTS: LAB SAMPLE # LAB DESCRIPTION LOCATION	CLIENT SAMPLE #	PERCENT & TYPE OF ASBESTOS	PERCENT & TYPE OF NON-ASBESTOS	LAYER* I-H APPEARANCE* F-NF
4722 Yellow Ceiling Tile North Office Area 7th Floor	BB-CT-141	None Detected	<1% Cellulose 70% Glass Fibers 20% Binders 10% Mineral Cleavages	I F
4723 Yellow Ceiling Tile Womens Rest Room 7th Floor	BB-CT-142	None Detected	<1% Cellulose 70% Glass Fibers 20% Binders 10% Paint	I F
4724a Cream Floor Tile 7th Floor North Side, Small Room with Sink	BB-FT-143a	<1% Chrysotile	60% Carbonate Binders 30% Organic Binders 10% Mineral Cleavages	I F
4724b Brown Mastic 7th Floor North Side, Small Room with Sink	BB-FT-143b	None Detected	<1% Cellulose 80% Organic Binders 20% Mineral Cleavages	I F
4725 Cream Floor Tile 9"x9" 7th Floor Womens Rest Room	BB-FT-144	3-5% Chrysotile	30% Carbonate Binders 45% Organic Binders 20% Mineral Cleavages	I F

Attached are the results of analysis of bulk samples submitted for asbestos identification. Converse Consultants MR, Inc. follows EPA Method EPA/600/R-93/116; July, 1993.

Each sample was initially examined under a stereoscopic microscope at a magnification of 10x to 60x. Fibrous material was examined for morphology and content. Portions of each sample were immersed in a fluid with a known refractive index. The sample was examined under polarized light using a Nikon Labophot microscope with a McCrone Dispersion Staining objective under 100X magnification. Optical characteristics of the fibrous material were examined to determine the mineralogy of the fiber. The observed optical characteristics include angles of extinction, signs of elongation and dispersion staining colors. Asbestos fiber content is estimated by optically comparing the quantity of asbestos material and non-asbestos material to establish estimated percentages.

Bulk sampling may not have been performed by Converse Consultants personnel. No warranty is made as to the acceptability of sampling strategies.

Converse Consultants MR, Inc., is National Voluntary Laboratory Accreditation Program accredited. Our NVLAP Laboratory I.D. Number is 102091.

This report must not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. This report must not be reproduced except in full with the approval of the laboratory. This report relates only to the items tested.

I in the layer column above indicates an inhomogeneous sample; H indicates an homogenous sample.

F in the appearance column indicates a fibrous sample; NF indicates a nonfibrous sample.



A Wholly Owned Subsidiary of The Converse Professional Group

# Converse Consultants Southwest, Inc.

Celebrating 50 Years of Dedication in  
Engineering and Environmental Sciences

## POLARIZED LIGHT MICROSCOPY ANALYSIS REPORT

Client: CECSW  
731 PILOT ROAD, SUITE H  
RENO, NEVADA 89119-4429  
Account: NA  
Contact: JOHN WATKINS  
Project No: 9643995-01  
CLARK COUNTY GENERAL SERVICES

Date Received: 01/06/97  
Data Analyzed: 01/07/97  
Date Reported: 01/09/97  
Reported To: JOHN WATKINS  
Submitted By: FEDERAL EXPRESS  
Report No.: 71-34726  
P.O. #: NONE PROVIDED

I certify that these results are accurate for the samples obtained and comply with accepted methods of analysis.

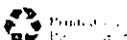
Lab Manager, Dan R. Dolk

Analyst, Dan R. Dolk

RESULTS: LAB SAMPLE # LAB DESCRIPTION LOCATION	CLIENT SAMPLE #	PERCENT & TYPE OF ASBESTOS	PERCENT & TYPE OF NON-ASBESTOS	LAYER* I-H APPEARANCE* F-NF
34726 Yellow Mastic 5th Floor Ladies Rest Room	BB-CTA-145	None Detected	<1% Cellulose 90% Binders 10% Mineral Cleavages	I F
34727 Beige Drywall 5th Floor Office/Above Ceiling	BB-DWM-146	None Detected	10% Processed Paper 50% Binders 40% Mineral Cleavages	I F
34728 Grey Plaster 5th Floor Men's Rest Room Above Ceiling	BB-IWP-147	None Detected	<1% Cellulose 40% Binders 20% Aggregate 40% Mineral Cleavages	I F
34729 Beige Drywall 5th Floor Office/Above Ceiling	BB-DWM-148	None Detected	<1% Glass Fibers 10% Processed Paper 60% Binders 30% Mineral Cleavages	I F
34730a White Skimcoat 5th Floor	BB-IWP-149a	None Detected	15% Talc 35% Binders 20% Gypsum 30% Mineral Cleavages	I F
34730b Tan Plaster 5th Floor	BB-IWP-149b	None Detected	30% Binders 30% Aggregate 40% Mineral Cleavages	I NF

Converse Consultants Southwest, Inc.  
4840 Mill Street, Suite 5  
Reno, Nevada 89502

Telephone: (702) 856-3833  
Facsimile: (702) 856-3513



RESULTS: LAB SAMPLE # LAB DESCRIPTION LOCATION	CLIENT SAMPLE #	PERCENT & TYPE OF ASBESTOS	PERCENT & TYPE OF NON-ASBESTOS	LAYER LH APPEARANCE F-NF
4731 Grey Ceiling Tile 6th Floor	BB-CT-150	None Detected	30% Cellulose 50% Mineral Wool 5% Mineral Cleavages 5% Paint 10% Perlite	I F
34732 Grey Ceiling Tile 6th Floor	BB-CT-151	None Detected	30% Cellulose 45% Mineral Wool 5% Mineral Cleavages 5% Paint 15% Perlite	I F
4733 Grey Ceiling Tile 6th Floor	BB-CT-152	None Detected	35% Cellulose 50% Mineral Wool 5% Paint 10% Perlite	I F
4734 Grey Ceiling Tile 7th Floor	BB-CT-153	None Detected	30% Cellulose 65% Mineral Wool 5% Paint	I F
4735 Grey Ceiling Tile 7th Floor	BB-CT-154	None Detected	30% Cellulose 50% Mineral Wool 5% Paint 15% Perlite	I F
4736 White Drywall 7th Floor Room #732	BB-DWM-155	None Detected	<1% Glass Fibers 10% Processed Paper 70% Binders 20% Mineral Cleavages	I F
34737 Grey Ceiling Tile 6th Floor	BB-CT-156	None Detected	30% Cellulose 45% Mineral Wool 5% Mineral Cleavages 5% Paint 15% Perlite	I F
4738 Grey Plaster 7th Floor	BB-IWP-157	None Detected	30% Binders 50% Aggregate 20% Mineral Cleavages	I NF
4739 White Drywall 6th Floor Entrance Room	BB-DWM-158	None Detected	<1% Glass Fibers 10% Processed Paper 5% Talc 55% Binders 30% Mineral Cleavages	I F
4740 Grey Plaster 8th Floor Ladies Rest Room	BB-IWP-159	>1-3% Chrysotile	7% Cellulose 30% Binders 60% Mineral Cleavages	I F
34741 Grey Plaster 8th Floor Ladies Rest Room	BB-IWP-160	None Detected	30% Binders 40% Aggregate 30% Mineral Cleavages	I NF
34742a Cream Joint Compound 8th Floor Hallway Near Elevator	BB-DWM-161a	3-5% Chrysotile	5% Cellulose 60% Carbonate Binders 40% Mineral Cleavages	I F

RESULTS: LAB SAMPLE # LAB DESCRIPTION LOCATION	CLIENT SAMPLE #	PERCENT & TYPE OF ASBESTOS	PERCENT & TYPE OF NON-ASBESTOS	LAYER* I-H APPEARANCE* F-NF
4742b White Drywall 9th Floor Hallway Near Elevator	BB-DWM-161b	None Detected	10% Processed Paper 50% Binders 40% Mineral Cleavages	I F
4743 Grey Plaster 10th Floor Ladies Room	BB-IWP-162	None Detected	30% Binders 40% Aggregate 30% Mineral Cleavages	I NF
4744 White Drywall 10th Floor Hallway Near Elevator	BB-DWM-163	None Detected	10% Processed Paper 60% Binders 30% Mineral Cleavages	I F
34745a Black Roofing Roof Northwest Side	BB-RM-164a	None Detected	5% Cellulose <1% Synthetic 65% Organic Binders 30% Mineral Cleavages	I F
34745b Black Roofing Roof Northwest Side	BB-RM-164b	None Detected	<1% Cellulose <1% Glass Fibers <1% Synthetic 50% Organic Binders 50% Mineral Cleavages	I F
4745c Black Roofing Roof Northwest Side	BB-RM-164c	None Detected	30% Synthetic 30% Organic Binders 40% Mineral Cleavages	I F
4745d Black Roofing Roof Northwest Side	BB-RM-164d	None Detected	10% Cellulose <1% Glass Fibers 30% Synthetic 30% Organic Binders 30% Mineral Cleavages	I F
34745e Black Roofing Roof Northwest Side	BB-RM-164e	None Detected	10% Cellulose 40% Organic Binders 50% Mineral Cleavages	I F
34746a Black Roofing Roof Northwest Side	BB-RM-165a	None Detected	20% Synthetic 50% Organic Binders 30% Mineral Cleavages	I F
34746b Black Roofing Roof Northwest Side	BB-RM-165b	None Detected	20% Synthetic 50% Organic Binders 30% Mineral Cleavages	I F
34747 Black Roofing Roof Northwest Side	BB-RM-166	None Detected	25% Synthetic 25% Organic Binders 30% Aggregate 20% Mineral Cleavages	I F
34748 Black Roofing Roof Northwest Side	BB-RM-167	None Detected	10% Cellulose 30% Synthetic 30% Organic Binders 30% Mineral Cleavages	I F
34749 Grey Plaster 10th Floor	BB-IWP-168	None Detected	40% Binders 30% Aggregate 30% Mineral Cleavages	I NF



A Wholly Owned Subsidiary of The Converse Professional Group

# Converse Consultants Southwest, Inc.

Celebrating 50 Years of Dedication in  
Engineering and Environmental Sciences



## POLARIZED LIGHT MICROSCOPY ANALYSIS REPORT

Client: CECSW  
 731 PILOT ROAD, SUITE H  
 LAS VEGAS, NEVADA 89119-4429

Account: NA

Contact: E. BLACKMAN

Project No: 9643995-01  
 CLARK COUNTY GENERAL SERVICES

Date Received: 01/07/97  
 Data Analyzed: 01/08/97  
 Date Reported: 01/09/97  
 Reported To: E. BLACKMAN  
 Submitted By: FEDERAL EXPRESS  
 Report No.: 71-34776  
 P.O. #: NONE PROVIDED

I certify that these results are accurate for the samples obtained and comply with accepted methods of analysis.

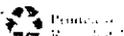
Lab Manager, Dan R. Dolk

Analyst, Dan R. Dolk

RESULTS: LAB SAMPLE # LAB DESCRIPTION LOCATION	CLIENT SAMPLE #	PERCENT & TYPE OF ASBESTOS	PERCENT & TYPE OF NON-ASBESTOS	LAYER* I-H APPEARANCE* F-NF
34776a Black Roofing Southwest Corner - Upper Secondary Roof	BB-RM-169a	None Detected	<1% Cellulose <1% Glass Fibers 5% Synthetic 40% Organic Binders 55% Mineral Cleavages	I F
34776b Black Roofing Southwest Corner - Upper Secondary Roof	BB-RM-169b	None Detected	30% Synthetic 40% Organic Binders 30% Mineral Cleavages	I F
34776c Black Roofing Southwest Corner - Upper Secondary Roof	BB-RM-169c	None Detected	<1% Cellulose 5% Glass Fibers 5% Synthetic 50% Organic Binders 40% Mineral Cleavages	I F
34776d Black Roofing Southwest Corner - Upper Secondary Roof	BB-RM-169d	None Detected	5% Cellulose <1% Glass Fibers <1% Synthetic 55% Organic Binders 40% Mineral Cleavages	I F
34776e Black Roofing Southwest Corner - Upper Secondary Roof	BB-RM-169e	None Detected	5% Cellulose <1% Glass Fibers <1% Synthetic 45% Organic Binders 50% Mineral Cleavages	I F

Converse Consultants Southwest, Inc.  
 4840 Mill Street, Suite 5  
 Reno, Nevada 89502

Telephone: (702) 856-3833  
 Facsimile: (702) 856-3513



RESULTS: LAB SAMPLE # LAB DESCRIPTION LOCATION	CLIENT SAMPLE #	PERCENT. & TYPE OF ASBESTOS	PERCENT. & TYPE OF NON-ASBESTOS	LAYER* I-H APPEARANCE* F-NF
34776f Black Roofing Southwest Corner - Upper Secondary Roof	BB-RM-169f	None Detected	35% Cellulose 5% Glass Fibers 45% Organic Binders 15% Mineral Cleavages	I F
34777a Black Roofing Northeast Corner of Main Roof - near Metal Dome	BB-RM-170a	None Detected	<1% Cellulose 30% Synthetic 40% Organic Binders 30% Mineral Cleavages	I F
34777b Black Roofing Northeast Corner of Main Roof - near Metal Dome	BB-RM-170b	None Detected	<1% Cellulose <1% Glass Fibers 70% Organic Binders 30% Mineral Cleavages	I F
34777c Black Roofing Northeast Corner of Main Roof - near Metal Dome	BB-RM-170c	None Detected	30% Synthetic 40% Organic Binders 30% Mineral Cleavages	I F
34777d Black Roofing Northeast Corner of Main Roof - near Metal Dome	BB-RM-170d	None Detected	<1% Cellulose <1% Glass Fibers 60% Organic Binders 40% Mineral Cleavages	I F
34777e Black Roofing Northeast Corner of Main Roof - near Metal Dome	BB-RM-170e	None Detected	30% Glass Fibers 40% Organic Binders 30% Mineral Cleavages	I F
34777f Black Roofing Northeast Corner of Main Roof - near Metal Dome	BB-RM-170f	None Detected	30% Cellulose 20% Glass Fibers 40% Organic Binders 10% Mineral Cleavages	I F

Attached are the results of analysis of bulk samples submitted for asbestos identification. Converse Consultants MR, Inc. follows EPA Method EPA/600/R-93/116; July, 1993.

Each sample was initially examined under a stereoscopic microscope at a magnification of 10x to 60x. Fibrous material was examined for morphology and content. Portions of each sample were immersed in a fluid with a known refractive index. The sample was examined under polarized light using a Nikon Labophot microscope with a McCrone Dispersion Staining objective under 100X magnification. Optical characteristics of the fibrous material were examined to determine the mineralogy of the fiber. The observed optical characteristics include angles of extinction, signs of elongation and dispersion staining colors. Asbestos fiber content is estimated by optically comparing the quantity of asbestos material and non-asbestos material to establish estimated percentages.

Bulk sampling may not have been performed by Converse Consultants personnel. No warranty is made as to the acceptability of sampling strategies.

Converse Consultants MR, Inc., is National Voluntary Laboratory Accreditation Program accredited. Our NVLAP Laboratory I.D. Number is 102091. This report must not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. This report must not be reproduced except in full with the approval of the laboratory. This report relates only to the items tested.

I in the layer column above indicates an inhomogeneous sample; H indicates an homogenous sample.  
F in the appearance column indicates a fibrous sample; NF indicates a nonfibrous sample.



A Wholly Owned Subsidiary of The Converse Professional Group

# Converse Consultants Southwest, Inc.

Celebrating 50 Years of Dedication in Engineering and Environmental Sciences



## POLARIZED LIGHT MICROSCOPY ANALYSIS POINT COUNT REPORT

Client: CECSW  
 731 PILOT ROAD, SUITE H  
 LAS VEGAS, NEVADA 89119-4429

Account: NA

Contact: JOHN WATKINS

Project No: 9643996-01  
 CLARK COUNTY GENERAL SERVICES

Date Received: 01/13/97  
 Data Analyzed: 01/13/97  
 Date Reported: 01/14/97  
 Reported To: JOHN WATKINS  
 Submitted By: FEDERAL EXPRESS  
 Report No.: 71-35357  
 P.O. #: NONE PROVIDED

I certify that these results are accurate for the samples obtained and comply with accepted methods of analysis.

Lab Manager, Dan R. Dolk

Analyst, Dan R. Dolk

RESULTS: LAB. SAMPLE # LOCATION DESCRIPTION	CLIENT SAMPLE #	PERCENT & TYPE OF ASBESTOS	PERCENT & TYPE OF NON-ASBESTOS	LAYER* I-H	APPEAR* F-NF
35357 Old Sample #34720	BB-CT-139	0.5% Chrysotile			
35358 Old Sample #34740	BB-WP-159	4.5% Chrysotile			

These Results represent a point count, this report supercedes the previous analysis results.

Attached are the results of analysis of bulk samples submitted for asbestos identification. Converse Consultants MR, Inc. follows EPA Method EPA/600/R-93/116; July, 1993.

Each sample was initially examined under a stereoscopic microscope at a magnification of 10x to 60x. Fibrous material was examined for morphology and content. Portions of each sample were immersed in a fluid with a known refractive index. The sample was examined under polarized light using a Nikon Labophot microscope with a McCrone Dispersion Staining objective under 100X magnification. Optical characteristics of the fibrous material were examined to determine the mineralogy of the fiber. The observed optical characteristics include angles of extinction, signs of elongation and dispersion staining colors. Asbestos fiber content is established by point counting.

Bulk sampling may not have been performed by Converse Consultants personnel. No warranty is made as to the acceptability of sampling strategies.

Converse Consultants MR, Inc., is National Voluntary Laboratory Accreditation Program accredited. Our NVLAP Laboratory I.D. Number is 102091.

This report must not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. This report must not be reproduced except in full with the approval of the laboratory. This report relates only to the items tested.

\*I in the layer column above indicates an inhomogeneous sample; H indicates an homogenous sample.

\*F in the appearance column indicates a fibrous sample; NF indicates a nonfibrous sample.

Converse Consultants Southwest, Inc.  
 4840 Mill Street, Suite 5  
 Reno, Nevada 89502

Telephone: (702) 856-3833  
 Facsimile: (702) 856-3513





**Forensic Analytical**  
Analytical Report

San Francisco • 3777 Depot Road, Suite 409, Hayward, CA 94545 • Phone 510 897-9228 • Fax 510 887-4219  
Los Angeles • 2959 Pacific Commerce Drive, Rancho Dominguez, CA 90221 • Phone 310 763-2374 • Fax 310 763-9684

**Bulk Material Analysis**  
Method: 40 CFR 763, Subpart F, Appendix A (AHERA)

Client:  
Converse Environmental Consultants, SW  
731 Pilot Road, Suite H  
Las Vegas, NV 89119

Client ID: 1647  
Report Number: 262638  
Date Received: 01/03/97  
Date Analyzed: 01/03/97

P.O. Num:  
Job ID: Clark County General Services  
Site:

Sample Number	Lab Number	Total Asbestos	Total Fibrous Non-Asbestos	(Breakdown by type)
QC-1 Off-white fibrous tile with paint.	19700317	Non-Det. %	85-90%	Cellulose (45-50%) Fibrous Glass (35-40%)
QC-2 Grey cementitious material.	19700318	Non-Det. %	Trace %	Cellulose (Trace %)

*David Kahane*  
David Kahane, C.I.E., Laboratory Director, Hayward Laboratory

Analytical results and reports are generated by Forensic Analytical at the request of and for the exclusive use of the person or entity (client) named on such report. Results, reports or copies of same will not be released by Forensic Analytical to any third party without prior written request from client. This report applies only to the sample(s) tested. Supporting laboratory documentation is available upon request. This report must not be reproduced except in full with approval from Forensic Analytical. The client is solely responsible for the use and interpretation of test results and reports requested from Forensic Analytical. This report must not be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government. Forensic Analytical is not able to assess the degree of hazard resulting from materials analyzed. Samples submitted to Forensic Analytical are retained for a period of six months and then disposed of according to all state and federal guidelines.

FORENSIC ANALYTICAL

FAX TRANSMISSION  
Summary of Results  
Polarized Light Microscopy

Date/Time: 1/3/97 10:57

To: Converse Environmental Consultants, SW

Project : 96-4399501  
Report #: 262587

Attn: John Watkins

Sender: Colleen

If you do not receive all pages, please contact Sender at (510) 887-8928

C: Chrysotile      Cr: Crocidolite  
A: Amosite      ND: No Asbestos detected  
P: Preliminary; subject to review

Sample Number	Asbestos %	Asb. Type(s)	Notes
BB-IWP-108QC	N/D		
BB-CP-121QC	N/D		

FAXED TO: 702-269-8353

A hard copy report will follow in the mail. Thank you.

Supervisor Approval: \_\_\_\_\_





Converse Environmental  
 Consultants Southwest, Inc.  
 731 Pilot Road, Suite H  
 Las Vegas, Nevada 89119-4429  
 Telephone (702) 263-7600 Fax (702) 269-8353

# BULK SAMPLE SHEET

Client Name: CLARK County General Services  
 Project Name: Bridge Building  
 Job Number: 96-43 Date: 12-31-96

Sample Number	MATERIAL AMOUNT, COLOR, SIZE	SAMPLE LOCATION	REPORTED % ASBESTOS BY LAYER
BB-CT-101	6'x4' ceiling tile Heavy Heavy fissure pattern	1st floor <del>west</del> north East court Room west side	A: ND
BB-CT-102	"	" East side	A: ND
BB-CT-103	"	" North central	A: ND
BB-CT-104	2'x4' Ceiling tile small random slash pattern	Treasurer/comptroller office area	A: ND
BB-CT-105	"	"	A: ND
BB-CT-106	"	"	A: ND
BB-IWP-107	Interior wall Plaster, gray Rough texture	1st floor north East courtroom	A: ND B: ND C: ND
BB-IWP-108	"	1st floor north Entrance area	A: ND B: ND C: ND
BB-IWP-109	"	1st floor central area	A: ND
BB-FT-110	12" x 12" Gray w/ white streak, tan adhesive	1st floor Hallway to west exit	A: ND B: ND

QC

Signature J. M. [Signature]



Converse Environmental  
 Consultants Southwest, Inc.  
 731 Pilot Road, Suite H  
 Las Vegas, Nevada 89119-4429  
 Telephone (702) 263-7600 Fax (702) 269-8353

# BULK SAMPLE SHEET

Client Name: CLARK County General Services  
 Project Name: Brudger Building  
 Job Number: 96-43 Date: 12-31-96

Sample Number	MATERIAL	AMOUNT, COLOR, SIZE	SAMPLE LOCATION	REPORTED % ASBESTOS BY LAYER
<del>12" x 12" F</del> BB-FT-111	12" x 12" Floor tile white w/BLACK speck TAD/BLACK ADH.		North Storage/ Shower area	A: NO B: NP
BB-WFA-112	Wall Fabric adhesive, white		1st Floor North East Courtroom	A: NO
BB-FT-113	9' x 9' Floor tile, white		<del>1st</del> 4th Floor VAULT	A: 3-5 T.I.C B: Mosaic
BB-CT-114	1' x 1' Ceiling tile small dot large dash Pattern		4th Floor VAULT	A: NO
BB-CT-115	"		"	A: NO
BB-CT-116	"		"	A: NO
BB-DI-117	Insulation w/ DUCTATAPE, white over fiberglass		4th Garage level	A: NO
BB-EWP-118	Exterior wall Plaster		4th Garage level	A: NO
BB-CP-119	Ceiling Plaste		4th level Garage level	A: NO
BB-CP-120	"		"	A: NO

Signature J. J. Moore



Converse Environmental  
 Consultants Southwest, Inc.  
 731 Pilot Road, Suite H  
 Las Vegas, Nevada 89119-4429  
 Telephone (702) 263-7600 Fax (702) 269-8353

# BULK SAMPLE SHEET

Client Name: CLARK County General Services

Project Name: Bridger Building

Job Number: 96-43 Date: 12-31-96

Sample Number	MATERIAL	AMOUNT, COLOR, SIZE	SAMPLE LOCATION	REPORTED % ASBESTOS BY LAYER
BB-CP-121	Ceiling Plaster		4th level garage	A: ND
BB-CP-122	"		"	A: ND
BB-CP-123	"		"	A: ND
BB-DI-124	Duct Insulation w/ TAPE over fiberglass Insulation		4th level garage	A: ND
BB-DI-125	Duct Insulation NO TAPE		"	A: ND
BB-CT-126	1' x 1' Ceiling tile gray w/ Parallel slash Pattern		5th floor near Elevators	A: ND
BB-CA-127	Carpet adhesive Tan		5th floor north side office HALLWAY	A: ND
BB-FT-128	9" x 9" Floor tile Cream w/gray highlight BLACK adhesive		5th floor men's <del>restroom</del> Restroom	A: 2-3 tile B: 5-10 mastic
BB-FTA-129	Floor tile adhesive Black		Electrical Room around men's room on 5th floor	A: ND
BB-FT-130	9" x 9" Floor tile Cream w/gray highlight BLACK adhesive		5th floor Breakroom	A: 2-3 tile B: 3-5 mastic

Signature [Handwritten Signature]



Converse Environmental  
 Consultants Southwest, Inc.  
 731 Pilot Road, Suite H  
 Las Vegas, Nevada 89119-4429  
 Telephone (702) 263-7600 Fax (702) 269-8353

# BULK SAMPLE SHEET

Client Name: CLARK County General Services

Project Name: Bridger Building

Job Number: \_\_\_\_\_

Date: 12-31-96

Sample Number	MATERIAL	AMOUNT, COLOR, SIZE	SAMPLE LOCATION	REPORTED % ASBESTOS BY LAYER
BB-FT-131	12" x 12" Floor tile TAN w/ Brown + white highlights TAN ADHESIVE		6th Floor closet area <del>East</del> side of west Floor	A: 3-5 tile B: 71-3 <del>tile</del>
BB-FT-132	unknown size floor tile white, black ADHESIVE		6th Floor closet area west side Below sample + BB-FT-131	A: 21-3 tile B: ND C: 5-10 mastic
BB-FT-133	12" x 12" Floor tile gray, white, white chips, TAN adhesive		6th Floor closet area East side of Floor	A: ND
BB-FT-134	12" x 12" Floor tile gray w/ white chips TAN adhesive		"	A: 61 (Trace) tile B: ND
BB-FT-135	Unknown size floor tile gray, TAN adhesive		Below sample BB-FT-134	A: ND B: ND
BB-FT-136	12" x 12" Floor tile TAN w/ Brown + white highlights, TAN adhesive Two layers of floor tile w/ grout		6th Floor East Closet area	A: ND B: ND C: ND
BB-CT-137	2' x 4' Ceiling tile Small dot/long-shank Pattern, red Backing		East side offices North, 7th Floor	A: ND
BB-CT-138	"		"	A: ND
BB-CT-139	"		"	A: 41
BB-CT-140	2' x 4' Ceiling tile ms/mo Pattern		womens restroom	A: ND

Signature \_\_\_\_\_





Converse Environmental  
Consultants Southwest, Inc.  
731 Pilot Road, Suite H  
Las Vegas, Nevada 89119-4429  
Telephone (702) 263-7600 Fax (702) 269-8353

# BULK SAMPLE SHEET

Client Name: CLARK COUNTY GENERAL SERVICES  
Project Name: BRIDGER BUILDING  
Job Number: 9643995-01 Date: 1-2-97

Sample Number	MATERIAL	AMOUNT, COLOR, SIZE	SAMPLE LOCATION	REPORTED % ASBESTOS BY LAYER
BB-CTA-145	CERAMIC TILE ADHESIVE (YELLOW)		5TH FLOOR/LADIES REST ROOM SE CORNER @ CEILING LEVEL	A: ND
BB-dwm-146	drywall Compound		5TH FLOOR/INTERIOR office @ HALLWAY above ceiling opposite Rm 513)	A: ND
BB-IWP-147	INTERIOR WALL PLASTER - grey - ROUGH TEXTURE		5TH FLOOR/MENS REST ROOM #513 SW CORNER ABOVE CEILING @ LAV	A: ND
BB-dwm-148	drywall Compound		6TH FLOOR/INTERIOR OFFICE CLOSET OPPOSITE ROOM 629 SW ABOVE CEILING	A: ND
BB-IWP 149	INTERIOR WALL PLASTER - grey ROUGH TEXTURE		6TH FLOOR/LADIES ROOM # 601/SOUTH EAST	A: ND B: ND
BB-CT-150	CEILING TILE 2' x 4' <sup>white</sup> SMALL DOT/MED SLASH		6TH FLOOR-ABOVE RECEPTION DESK CENTER of MAIN HALL WAY-OPPOSITE ELEVATOR	A: ND
BB-CT-151	2' x 4' CEILING <sup>white</sup> TILE / SMALL DOT MEDIUM SLASH		6TH FLOOR-NEXT TO ROOM #634 @ ELECTRICAL UTILITY/ CABINET / SOUTH EAST	A: ND
BB-CT-152	2' x 4' CEILING <sup>white</sup> TILE / SMALL DOT MEDIUM SLASH		SOUTH CENTER CEILING " " " SAME FLOOR / SAME INTERIOR OFFICE	A: ND
BB-CT-153	2' x 4' CEILING <sup>white</sup> TILE / SMALL DOT MEDIUM SLASH		7TH FLOOR CONFERENCE ROOM # 732 NORTHWEST WALL INTERIOR OFFICE	A: ND
BB-CT-154	2' x 4' CEILING <sup>white</sup> TILE / SMALL DOT MEDIUM SLASH		7TH FLOOR/LADIES REST ROOM # 723 SOUTHWEST CEILING	A: ND

Signature EMERAL BLANKIN



Converse Environmental  
 Consultants Southwest, Inc.  
 731 Pilot Road, Suite H  
 Las Vegas, Nevada 89119-4429  
 Telephone (702) 263-7600 Fax (702) 269-8353

# BULK SAMPLE SHEET

Client Name: CLARK COUNTY GENERAL SERVICES  
 Project Name: BRIDGER BUILDING  
 Job Number: 9643995-01 Date: 1-2-97

Sample Number	MATERIAL	AMOUNT, COLOR, SIZE	SAMPLE LOCATION	REPORTED % ASBESTOS BY LAYER
BB-dwm-155	drywall compound		7TH FLOOR / ROOM # CONFERENCE - 732 NORTH WEST WALL ABOVE CEILING	A: NO
BB-CT-156	2' x 4' CEILING TILE / SMALL dot - MEDIUM SLASH		7TH FLOOR / CENTER HALLWAY - OPPOSITE LADIES RESTROOM # 723	QC # 1 A: NO
BB-IWP-157	INTERIOR WALL PLASTER - grey - ROUGH TEXTURE		7TH FLOOR / LADIES RESTROOM # 732 ABOVE CEILING & SOUTHWEST CORNER	QC # 2 A: NO
BB-dwm-158	drywall compound		8TH FLOOR INTERIOR OFFICE MARKED ENTRANCE CENTER of SW WALL	A: NO
BB-IWP-159	INTERIOR WALL PLASTER - grey - ROUGH TEXTURE		8TH FLOOR / LADIES RESTROOM / SOUTH EAST CORNER - ABOVE CEILING ABOVE LAV	A: 21 - 3 point count 4.5 %
BB-IWP-160	INTERIOR WALL PLASTER - grey - ROUGH TEXTURE		9TH FLOOR, LADIES RESTROOM # 921 SE CORNER ABOVE CEILING @ LAV	A: NO
BB-dwm-161	drywall compound		9TH FLOOR / ABOVE CEILING IN MAIN HALLWAY NORTH of ELEVATORS / E. of RM 904	A: 3-5 compound B: NO
BB-IWP-162	INTERIOR WALL PLASTER grey - ROUGH TEXTURE		10TH FLOOR LADIES RESTROOM SOUTH EAST CORNER ABOVE CEILING @ LAV	A: NO
BB-dwm-163	drywall compound		10TH FLOOR - ABOVE CEILING IN HALLWAY NORTH of ELEVATOR BANK - EAST of RM 1001	A: NO
BB-RM-164	Roof MATERIAL (FLASHING)		NORTH WEST CORNER of MAIN Roof @ slope	A: NO B: NO C: NO D: NO

Signature EMILY BLACKMAN



Converse Environmental  
 Consultants Southwest, Inc.  
 731 Pilot Road, Suite H  
 Las Vegas, Nevada 89119-4429  
 Telephone (702) 283-7600 Fax (702) 269-8353

# BULK SAMPLE SHEET

Client Name: CLARK COUNTY GENERAL SERVICES  
 Project Name: BRIDGER BUILDING  
 Job Number: 9643 995-01 Date: 1-2-97

Sample Number	MATERIAL	AMOUNT, COLOR, SIZE	SAMPLE LOCATION	REPORTED % ASBESTOS BY LAYER
BB-RM-165	Roof MATERIAL BLACK/MASTIC		NORTH WEST SIDE of MAIN Roof-	A: ND B: ND
BB-RM-166	Roof MATERIAL LAYERED ASPHALT		NW AREA of MAIN Roof & METAL dome	A: ND
BB-RM-167	Roof MATERIAL BLACK/MASTIC		NORTHWEST SIDE of MAIN Roof	A: ND
BB-IWP-168	INTERIOR WALL PLASTER - grey - ROUGH TEXTURE		6TH FLOOR / ladies REST ROOM - west WALL ABOVE CEILING	A: ND
BB-RM-169	Roof MATERIAL LAYERED / FOAM INSULATION + ASPHALT		SOUTHWEST CORNER UPPER SECONDARY Roof	A: ND B: ND C: ND F: ND D: ND
BB-RM-170	Roof MATERIAL LAYERED / FOAM INSULATION + ASPHALT		NORTH EAST AREA of MAIN ROOF NEAR METAL dome	A: ND B: ND C: ND F: ND D: ND

Signature EMERAL BLACKMAN