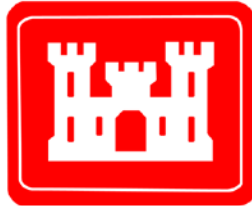


Final Asbestos Survey Update Report
Gallagher Memorial USAR Center (NM005)
1300 West Brown Road, Las Cruces, New Mexico 88005

Contract No. W912QR-12-D-0027
Delivery Order No: 0003

Prepared for:



U.S. Army Corps of Engineers
Louisville District

Prepared by:

Terranear^{PM}**MC**
222 Valley Creek Boulevard, Suite 210
Exton, PA 19341

and



VERNADERO
GROUP
INCORPORATED

4422 East Indian School Road
Suite 101
Phoenix, AZ 85018

July 2013

**Final
Asbestos Survey Update Report
Gallagher Memorial USAR Center (NM005)
1300 West Brown Road, Las Cruces, New Mexico 88005**

STATEMENT OF INDEPENDENT TECHNICAL REVIEW

Vernadero Group Incorporated, under subcontract to Terranear PMC, LLC, has completed the Final Asbestos Survey Update Report for the Gallagher Memorial U.S. Army Reserve Center (NM005), Las Cruces, New Mexico.

Notice is hereby given that an independent technical review has been conducted that is appropriate to the level of risk and complexity inherent in the project. During the independent technical review, compliance with established policy principles and procedures, utilizing justified and valid assumptions, was verified. This included review of data quality objectives; technical assumptions; methods, procedures, and materials to be used; the appropriateness of data used and level of data obtained; and reasonableness of the results, including whether the product meets the customer's needs consistent with law and existing U.S. Army Corps policy.

Significant concerns and the explanation of the resolution are documented in the project file. Changes to the report addressing the comments have been verified by the Project Manager. As noted above, all concerns resulting from independent technical review of the project have been considered.



Sara M. Jackson, REM, REPA, CEA
Project Manager

Date: 29 July 2013



For Cris Howard, AICP
Vice President
Independent Technical Review Team Leader

Date: 23 July 2013

TABLE OF CONTENTS

1.0 INTRODUCTION	1
2.0 METHODOLOGY	1
3.0 PREVIOUS REPORT FINDINGS.....	2
4.0 FINDINGS OF THIS RE-INSPECTION	2
5.0 RECOMMENDATIONS.....	3

LIST OF TABLES

Table 4-1. Identified Asbestos Containing Materials.....	3
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LIST OF APPENDICES

Appendix A	Site Photographs.....	A-1
Appendix B	Photographic Log and Field Notes	B-1
Appendix C	Inspector Certifications	C-1
Appendix D	Previous Reports.....	D-1

FORMAT PAGE

LIST OF ACRONYMS AND ABBREVIATIONS

ACM	Asbestos Containing Material
DECAM	Directorate of Environmental Compliance and Management
HVAC	Heating, Ventilation, and Air Conditioning
OMS	Organizational Maintenance Shop
RSC	Regional Support Command
sf	Square Feet
U.S.	United States
USACE	United States Army Corps of Engineers
USAR	United States Army Reserve
VCT	Vinyl Composition Tile
Vernadero	Vernadero Group Incorporated

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1.0 INTRODUCTION

Vernadero Group Incorporated (Vernadero) was authorized to conduct a visual asbestos re-inspection and prepare a summary report for the Gallagher Memorial United States Army Reserve (USAR) Center, Facility ID NM005. The facility is located at 1300 West Brown Road, Las Cruces, New Mexico 88005, in Doña Ana County. The purpose of the re-inspection was to verify the presence/absence of documented Asbestos Containing Materials (ACM) and report the current condition of these materials. This effort is being conducted to support a scheduled disposal and transfer of the facility. Our work is in general accordance with the approved Scope of Work and work plans.

Vernadero staff reviewed the following documents, which are included as Appendix D:

- Fort Carson, Directorate of Environmental Compliance and Management (DECAM), 1993. Asbestos Survey, Las Cruces, New Mexico, Army Reserve Center Buildings, June 1993.
- United States (U.S.) Army 90th Regional Support Command (RSC), 1997. Asbestos Building Inspection, Gallagher Memorial U.S. Army Reserve Center, Las Cruces, New Mexico, May 1997.
- L&P Scientific Consulting, LLC, 2011. Limited Asbestos Survey, U.S. Army Reserve Center, 1300 Brown Road, Las Cruces, New Mexico, 88005, October 6, 2011.

Dean Alford of Vernadero conducted a site inspection on 3 June 2013. Mr. Alford has over 25 years experience with environmental management and hazardous materials, including over 15 years experience as an Environmental Protection Agency accredited and state licensed asbestos inspector. Training and certifications are included as Appendix C. The site visit included a visual inspection of assumed ACM, current condition, and observable changes from previous reports. Staff Sergeant Anthony White, Gallagher Memorial USAR Center, was the site escort. Danny Walsh, Area Environmental Manager for the 63d RSC was the point of contact, (315) 447-3580.

Two permanent buildings are located at the facility: an Administration Building and an Organizational Maintenance Shop (OMS). There are also several smaller storage buildings and multiple metal shipping containers. The Administration Building and OMS are the structures subject to the re-inspection. The Administration Building is approximately 13,342 square feet (sf). The OMS is approximately 5,395 sf. The structures are reported to have been constructed in 1959.

2.0 METHODOLOGY

Our methodology included a visual assessment of each area identified in previous reports, photo documentation of current conditions, and a comparison of current assumed or confirmed ACM to previously identified, assumed ACM. Samples obtained in the 1993 survey (DECAM 1993) were obtained from multiple locations, and if results indicated they were ACM, similar materials were assumed to also be ACM. The 1997 report (90th RSC 1997) was a visual re-survey, and did not obtain samples, but confirmed the condition of materials noted in the 1993

survey. The 2011 report (L&P 2011) consisted of a limited survey for the proposed renovation of a small supply/storage room in the OMS. Physical samples were not obtained as part of this re-inspection effort. Roofing materials were expressly not evaluated.

3.0 PREVIOUS REPORT FINDINGS

The 1993 asbestos survey (DECAM 1993) indicated the presence of ACM at the site in vinyl composition tile (VCT) adhesives in the Administration Building, Room 114. Remaining materials sampled, including roofing materials, wall and ceiling components, VCT systems (VCT, coving, and related mastic) and Thermal System Insulation in both the Administration Building and the OMS were reported as non-ACM. The 1997 asbestos re-inspection report (90th RSC 1997) confirmed the presence of ACM and noted that flexible duct connectors (vibration collars) on the Heating, Ventilation, and Air Conditioning (HVAC) air handlers in the Assembly Hall of the Administration Building were assumed to be ACM. The 2011 survey (L&P 2011) was limited to the OMS storage area. The report indicates that samples of VCT and mastic were obtained for laboratory analysis, with no ACM detected.

4.0 FINDINGS OF THIS RE-INSPECTION

Photographs are included as Appendix A. Descriptions of the photographs, associated materials, and previously identified ACMs are detailed in the photographic log located in Appendix B. The photographic log identifies color and condition of materials, covered floor areas, and areas unavailable for inspection. Photograph numbers are cross indexed to previously identified room numbers, floor, and building. Damage categories are defined as:

- Undamaged - no visible damage, or extremely minor damage or surface marring;
- Damaged - visible damage evenly distributed over less than 10% of a surface, or localized over less than 25% of a surface; or
- Significantly Damaged - visible damage evenly distributed over 10% or more of a surface or localized over 25% or more if a surface.

Notable changes or deviations from previous reports include:

- Rooms 104 and 105 in the Administration Building were locked at the time of the inspection, although portions of the rooms could be observed through in-door windows, and appeared to remain as described in previous reports; and
- Room 111 in the Administration Building was carpeted. Materials under the carpeting could not be observed.

Friable assumed ACM was noted in the vibration collars on the HVAC air handling units in the Administration Building Assembly Hall. Friable ACMs were not observed in the remainder of either building. Table 4-1 includes a summary of the previous and current conditions of the identified ACMs. Materials sampled in the 1993, 1997, and 2011 surveys that were found not to be ACM are not included in Table 4-1.

Table 4-1. Identified Asbestos Containing Materials

1993 Survey	Material	1993 Survey Location	1993 Survey Status	1997 Survey Status	2013 Status
LC-005	Floor Tile Adhesive	Administration Building, Room 114	Non-Friable, Good Condition, Low Potential for Disturbance	Non-Friable, Good Condition, Low Potential for Disturbance	Non-Friable, Good Condition, Low Potential for Disturbance
Not Applicable	HVAC Air Handler Vibration Collars	Administration Building, Assembly Hall	Not Observed	Friable, Fair Condition, High Potential for Disturbance	Friable, Fair Condition, High Potential for Disturbance

5.0 RECOMMENDATIONS

Based on the materials observed at the subject site, and previous asbestos survey documents, Vernadero recommends the following:

- Suspect ACM should be sampled and evaluated prior to disturbance during operation and maintenance or renovation, as needed;
- ACM should remain covered or properly maintained to prevent abrasion, chipping or cracking, to minimize potential for exposure; and
- Should ACM be scheduled for removal, follow all local, state and federal regulations, using appropriate containment protocols and properly licensed and certified asbestos abatement contractors and supervision.

FORMAT PAGE

Appendix A Site Photographs

FORMAT PAGE



A-1. Facility Sign at Entry Gate.



A-2. Administration Building Entrance.



A-3. Administration Building, Secure Storage, Room 116.



A-4. Administration Building, Secure Storage, Room 116.



A-5. Administration Building, Secure Storage, Room 116.



A-6. Administration Building, Secure Storage, Room 116.



A-7. Administration Building, Secure Storage, Room 117.



A-8. Administration Building, Front Entry, Hallway 101.



A-9. Administration Building, Hallway 102.



A-10. Administration Building, Men's Latrine, Room 116.



A-11. Administration Building, Men's Latrine, Utility Closet, Room 116.



A-12. Administration Building, Women's Latrine, Room 107.



A-13. Administration Building, Women's Latrine, Room 107.



A-14. Administration Building, Women's Latrine, Room 107.



A-15. Administration Building, Transition from Main Hallway 102 to Room 111.



A-16. Administration Building, Transition from Main Hallway 102 to Room 112.



A-17. Administration Building, Room 109.



A-18. Administration Building, Room 111.



A-19. Administration Building, Room 111.



A-20. Administration Building, Room 111.



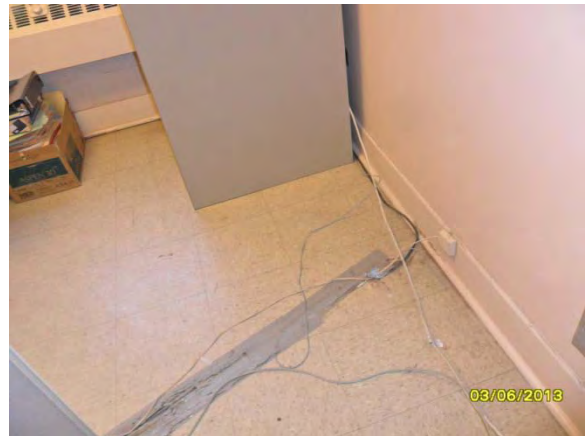
**A-21. Administration Building, Main Hallway 102,
West Exit.**



A-22. Administration Building, Room 112.



**A-23. Administration Building, VCT Types Outside
Utility Closet, Main Hallway Room 102, Outside
Room 112.**



A-24. Administration Building, Room 112.



A-25. Administration Building, Room 113.



A-26. Administration Building, Room 114.



A-27. Administration Building, Hallway 103 and Room 119.



A-28. Administration Building, Hallway 103, Near East Entrance.



A-29. Administration Building, Hallway 103, Near East Entrance.



A-30. Administration Building, Room 119.



**A-31. Administration Building, Assembly Hall,
Room 120.**



**A-32. Administration Building, Assembly Hall,
Room 120.**



**A-33. Administration Building, Assembly Hall,
Room 120, Southwest HVAC Unit.**



**A-34. Administration Building, Assembly Hall,
Room 120, Northeast HVAC Unit.**



**A-35. Administration Building, Assembly Hall,
Room 120.**



**A-36. Administration Building, Pantry,
Room 120A.**



**A-37. Administration Building, Kitchen,
Room 120B.**



**A-38. Administration Building, Scullery,
Room 120C.**



A-39. OMS, Break Room Ceiling.



A-40. OMS, Break Room.



A-41. OMS, Break Room.



A-42. OMS, Break Room Latrine.



A-43. OMS, Break Room Latrine.



A-44. OMS, Break Room and Main Hallway.



A-45. OMS, Office Area.



A-46. OMS, Office Area.



A-47. OMS, Tool and Parts Area.



A-48. OMS, Service Area Ceiling.



A-49. OMS, Tool and Parts Area.



A-50. OMS, Tool and Parts Area.



A-51. OMS, Tool and Parts Area.



A-52. OMS, Maintenance Bay Area.



A-53. OMS Shop, Maintenance Bay Area.



A-54. OMS, New Product Storage Room.

FORMAT PAGE

Appendix B Photographic Log and Field Notes

FORMAT PAGE

Photographic Log and Field Notes

Administration Building				
Room	Material Type	Color	Condition	Comment
101	VCT (hallway): Ceramic Tile (entrway)	VCT (light toast): Ceramic Tile ('brick red')	Undamaged, Non-Friable	Typical of VCT throughout majority of the facility. Non-ACM.
102	VCT	Light toast	Undamaged, Non-Friable	Typical of VCT throughout majority of the facility. Non-ACM.
103	VCT	Tan with black mottling	Undamaged, Non-Friable	Typical of VCT in Hallway 103 and Assembly Hall Room120. Non-ACM.
104	VCT	Light toast	Undamaged, Non-Friable	Typical of VCT throughout majority of the facility. Non-ACM.
105	VCT	Light toast	Undamaged, Non-Friable	Typical of VCT throughout majority of the facility. Non-ACM.
106	Ceramic Tile	Gray, blue, white tiles	Undamaged, Non-Friable	Women's showers, non-ACM.
107	Ceramic Tile	Gray, blue, white tiles	Undamaged, Non-Friable	Women's latrine, non-ACM.
108	Ceramic Tile	Gray, blue, white tiles	Undamaged, Non-Friable	Women's locker room, non-ACM.
109	Concrete	Gray	Undamaged, Non-Friable	Arms Vault, concrete flooring and walls, non-ACM.
110	VCT	Light toast	Undamaged, Non-Friable	Computer server room.
111	Carpet	Dark brown	Undamaged, Non-Friable	Materials under carpet non-observed.
112	Concrete	Gray	Undamaged, Non-Friable	Mechanical Room.
113	VCT	Light toast	Undamaged, Non-Friable	Typical of VCT throughout majority of the facility. Non-ACM.
114	VCT	Light gray	Undamaged, Non-Friable	VCT is non-ACM, mastic reported as 10-20% chrysotile.
115	Ceramic Tile	White	Undamaged, Non-Friable	Men's latrine, showers and locker room, painted concrete floor, ceramic tile walls, non-ACM.
116	Concrete	Gray	Undamaged, Non-Friable	Men's latrine, showers and locker room, painted concrete floor, ceramic tile walls, non-ACM.
117	VCT	Light toast	Undamaged, Non-Friable	Typical of VCT throughout majority of the facility. Non-ACM.
118	VCT	Light toast	Undamaged, Non-Friable	Typical of VCT throughout majority of the facility. Non-ACM.
119	VCT	Light toast	Undamaged, Non-Friable	Typical of VCT throughout majority of the facility. Non-ACM.
120	VCT	Tan with black mottling	Undamaged, Non-Friable	Typical of VCT in Hallway 103 and Assembly Hall Room120.
120A	Ceramic Tile	Brick Red	Undamaged, Non-Friable	Non ACM
120B	Ceramic Tile	Brick Red	Undamaged, Non-Friable	Non ACM
120C	Ceramic Tile	Brick Red	Undamaged, Non-Friable	Non ACM
Utility Closet	VCT	Light brown	Undamaged, Non-Friable	Non ACM
OMS				
Room	Material Type	Color	Condition	Comment
South Service Bay	Concrete	Gray	Undamaged, Non-Friable	Non ACM
North Service Bay	Concrete	Gray	Undamaged, Non-Friable	Non ACM
Battery Storage	Concrete	Gray	Undamaged, Non-Friable	Non ACM
Utility Room	Concrete	Gray	Undamaged, Non-Friable	Non ACM
Parts Storage	Concrete	Gray	Undamaged, Non-Friable	Non ACM
Fluids Storage	Concrete	Gray	Undamaged, Non-Friable	Non ACM
Storage and Supply Area	VCT	Beige	Undamaged, Non-Friable	Non ACM
Break Room	VCT	Tan mottled	Undamaged, Non-Friable	Non ACM
OMS Shop Office	VCT	Tan mottled	Undamaged, Non-Friable	Non ACM
Unit Office	VCT	Tan mottled	Undamaged, Non-Friable	Non ACM
Office	VCT	Mixed styles beige, tan mottled, white and tan	Undamaged, Non-Friable	Non ACM
Latrine	VCT	Tan mottled	Undamaged, Non-Friable	Non ACM

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Appendix C Inspector Certifications

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THE ASBESTOS INSTITUTE

Certifies that

Dean E Alford

has attended the EPA approved course

**AHERA Refresher
Building Inspector
November 30, 2012**

and successfully passed the competency exam.

Date of Examination: **November 30, 2012**

Date of Expiration: **November 30, 2013**



William T. Cavness
Director



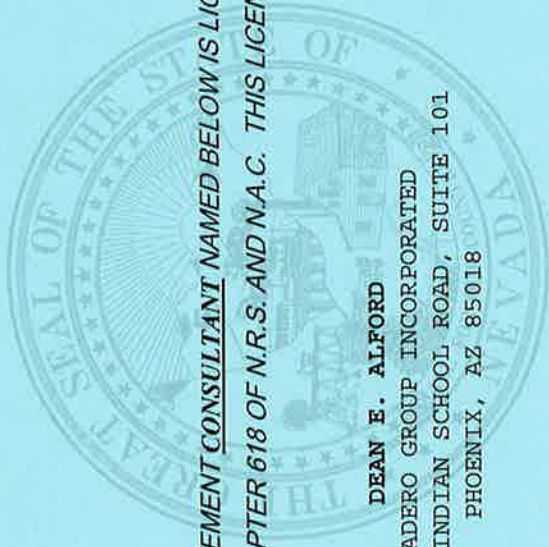
Approved Instructor

THE ASBESTOS INSTITUTE
20033 N. 19th Avenue
Building #6
Phoenix, AZ 85027
602-864-6564

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

DATE 12/14/12

LICENSE I781



THE ASBESTOS ABATEMENT CONSULTANT NAMED BELOW IS LICENSED UNDER THE PROVISIONS OF CHAPTER 618 OF N.R.S. AND N.A.C. THIS LICENSE EXPIRES ON 12/14/13

DEAN E. ALFORD
VERNADERO GROUP INCORPORATED
4422 E. INDIAN SCHOOL ROAD, SUITE 101
PHOENIX, AZ 85018

Appendix D Previous Reports

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ASBESTOS SURVEY

LAS CRUCES, NEW MEXICO

ARMY RESERVE CENTER BUILDINGS

PREPARED BY:

NICK PALLOTTO

&

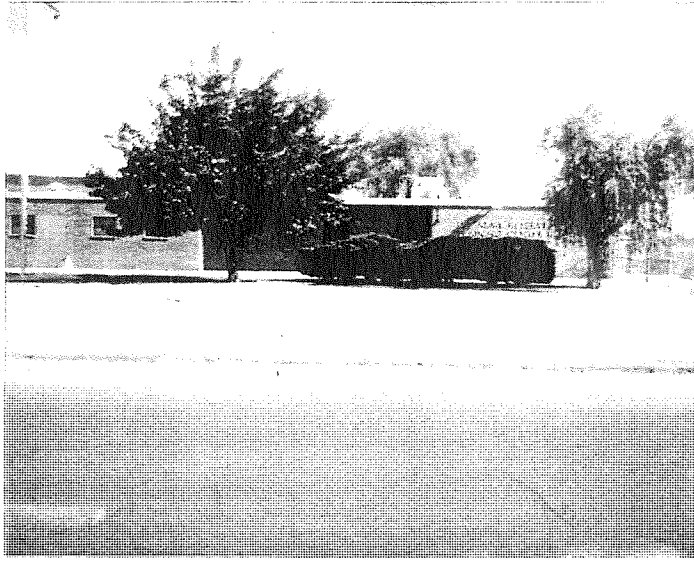
ED TEBO

**DIRECTORATE OF ENVIRONMENTAL
COMPLIANCE AND MANAGEMENT**

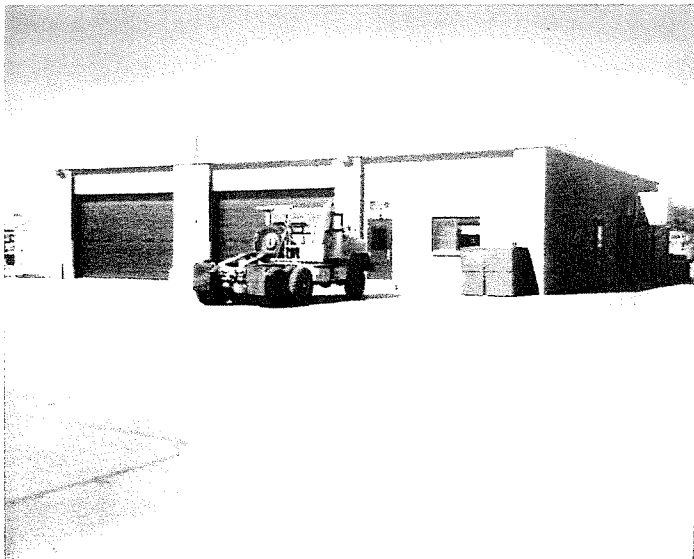
JUNE 1993

TABLE
OF
CONTENTS

SECTION I.	Written Summary and Abatement Cost Estimate
SECTION II.	Asbestos Survey Form Supplemental Information
SECTION III.	Sampling Results and Supplemental Information
SECTION IV.	Summary Assessment and Supplemental Information
SECTION V.	Asbestos Locator Map Key Drawings/Floor Plans
SECTION VI.	Laboratory Results
SECTION VII.	Photographs



**ADMINISTRATION
BUILDING**



**MAINTENANCE
FACILITY**

**DIRECTORATE
OF
ENVIRONMENTAL COMPLIANCE AND MANAGEMENT**
Fort Carson, Colorado 80913-5000
(719) 579-4828

**INSPECTION FOR
ASBESTOS CONTAINING BUILDING MATERIALS
(ACBM)**

Las Cruces, New Mexico

The following is a report on asbestos containing building materials (ACBM) located in buildings at the Las Cruces, New Mexico Army Reserve Center. The Fort Carson, Directorate of Environmental Compliance and Management (DECAM) was requested to inventory all asbestos containing building materials. A visual survey and samples were taken by an EPA Certified Inspector. All samples were then submitted to a DECAM contracted laboratory for analysis. Results were returned to DECAM for compilation of this report.

On 8 June 1993 a walkthrough of both buildings was done to locate all suspect ACBM. Suspect materials were sampled in accordance with the Asbestos Hazard Emergency Response Action (AHERA) standards.

The DECAM, chose to utilize the services of EssTek, Inc. of Englewood, Colorado for sample analysis. EssTek, Inc. is an Environmental Protection Agency (EPA) accredited laboratory for the analysis of asbestos samples. They participate in the National Institute of Occupational Safety and Health (NIOSH), Proficiency Analytical Testing (PAT) program and is a member of the National Voluntary Laboratory Accreditation Program (NVLAP).

Both buildings at this site were inspected. The first building was an administrative facility totaling approximately 10694 SF. Its exterior was constructed of brick walls with wood and metal trim on a concrete slab. Interior walls consisted of a combination of either brick, or wood framing with gypsum board covering. There were numerous types of flooring found throughout the building. As well as Several types of ceiling tile. The roof consisted of built up roofing material with a portion covered with a Poly-foam roofing material. The second building inspected was the vehicle maintenance facility. This structure was similar in design in that it consisted of a brick exterior on a concrete slab. It also had a combination of brick and gypsum board walls throughout its interior. Some of the floor tiles in this facility were the same as those found in the administration building. This buildings roof consisted of a of built up roof.

The following is a detailed description:

ROOF

The roof on the administration facility consisted of tar and gravel built up on a fibrous board material. A portion of this roof was sealed with a Poly-foam material. The maintenance facilities roof also consisted of tar and gravel built up on a fibrous board material with no Ploy-foam material. Samples of each type of material were taken from both buildings with no findings of asbestos.

SIDING

The exteriors of both facilities consisted of brick with wood and/or aluminum trim. None of these materials were suspected of containing asbestos and no samples were taken.

INTERIOR

The interiors of both buildings were constructed brick or wooden framed walls with gypsum board covering. The ceiling in the administrative building consist of several types of 2' X 4' panels and/or gypsum board. Representative wall and ceiling surfaces to include mudded joints and texturing were sampled. Of these samples none were found to contain asbestos. Both buildings had similar 12" X 12" floor tiles and Base Cove throughout. Of all the tiles sampled only the mastic beneath the Grey tile in the administration building was found to contain asbestos. All other flooring to include the base cove tested negative for asbestos.

MECHANICAL ROOM

Within the Mechanical room of the Administrative facility there were several suspect materials identified. The hot water system consisted of a gas Hot Water Heater. Its related pipes were insulated with a fiber glass insulation covered with a cloth material. The pipe elbows were insulated with a hard packed plaster material. Samples of each of these materials were taken all testing negative for asbestos. No other materials in this area were suspected of containing asbestos and no further sampling was required.

SUMMARY

Upon completion of the inspections and review of the sample analysis from both the Administrative and Maintenance buildings, the following materials have been determined to contain asbestos:

- The Mastic beneath the 12" X 12" Grey floor tile located in the

administration building.

COMMENTS

This material in its present condition and location poses no immediate threat to the occupants of this facility. Recommend that all personnel responsible for the maintenance of these facilities, and who may be required to disturb the asbestos containing materials identified in the report be adequately trained in the proper handling and disposal of asbestos containing materials. Also recommend that all future repairs and/or replacement of these tiles be done by a certified asbestos abatement contractor. Further testing of materials may be required for determining more accurate material and cost estimates for future abatement projects.

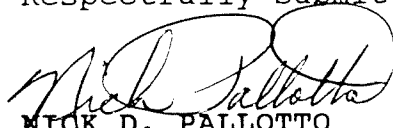
REMOVAL COST ESTIMATES

The following estimates are provided as a base cost reference for the facility occupants use, and should not be considered an official government estimate. The estimates provided is for the removal and replacement of the vibration collars and abatement of the duct wrap.

<u>DESCRIPTION</u>	<u>QUANTITY</u>	<u>UNIT COST</u>	<u>TOTAL</u>
Floor Tile and Mastic Abatement	1400 SF	* \$ 5.00 SF	\$ 7000.00
		TOTAL	\$ 7000.00

* The estimated square footage cost for the abatement of the floor tile and mastic includes the required construction of containment barriers, air monitoring and disposal of asbestos. It does not include the cost for replacing the removed tiles.

Respectfully submitted,


NICK D. PALLOTTO
Program Manager
Asbestos/Lead

ASBESTOS SURVEY FORM
SUPPLEMENTAL INFORMATION

SAMPLE NUMBER

A number assigned to each bulk sample taken. Normally the number will start with ACM, then the building number followed by a 2-4 digit number listed sequentially for each bulk sample.

LOCATION

The description of an area where bulk samples were taken (ie. room number, room name, crawl space, etc.).

TYPE OF MATERIAL

See list of abbreviations for the Asbestos Locator Map.

PHOTOGRAPH NUMBER

The number assigned to the photograph taken of bulk sample locations.

FUNCTIONAL SPACE NUMBER

The number assigned to each spatially distinct area within a building (ie. room, group of rooms, homogenous area, etc.)

CONDITION

Percent Damage
01 = 0%, 02 = 0-10%, 03 = 10-25%, 04 = >25%

Extent of Damage
L = Localized D = Distributed

Type of Damage
D = Deterioration W = Water P = Physical

POTENTIAL FOR DISTURBANCE

Potential of Air Erosion, Influence of Vibration, Frequency of Contact
H = High M = Moderate L = Low

QUANTITY

The amount of material present in the location or functional space which the bulk sample represents.

RESULTS

P = Positive (Contains > 1% Asbestos)
N = Negative (Contains < 1% Asbestos)

COMMENTS

Any information noted or obtained during the inspection which could influence or alter the interpretation of survey data will be noted here.

SAMPLE RESULTS

LAS CRUCES, NEW MEXICO

BUILDING: ADMIN BLDG

SAMPLE NO.	ACM LC-001	ACM LC-002	ACM LC-003	ACM LC-004	ACM LC-005
LOCATION	MECH ROOM	MECH ROOM	RM 120	RM 120	RM 114
TYPE OF MATERIAL	PF	PI	FTM	BCM	FTM
PHOTO NO.	01	02	03	03	04
FUNCTIONAL SPACE NO.	01	01	02	02	03
CONDITION:					
% DAMAGE					0
EXTENT					D
TYPE					P
POTENTIAL DISTURBANCE:					
AIR					L
VIBRATION					L
CONTACT					L
QUANTITY					1400 SF
RESULTS	N	N	N	N	MASTIC 10-20% CHRY

COMMENTS:

SAMPLE RESULTS

LAS CRUCES, NEW MEXICO

BUILDING: ADMIN BLDG

SAMPLE NO.	ACM LC-006	ACM LC-007	ACM LC-008	ACM LC-009	ACM LC-010
LOCATION	RM 114	RM 111	RM 111	RM 111	RM 111
TYPE OF MATERIAL	BCM	BCM	CPT	GBCT	GBCT
PHOTO NO.	04	05	05	06	07
FUNCTIONAL SPACE NO.	03	03	03	03	03
CONDITION:					
% DAMAGE					
EXTENT					
TYPE					
POTENTIAL DISTURBANCE:					
AIR					
VIBRATION					
CONTACT					
QUANTITY					
RESULTS	N	N	N	N	N

COMMENTS:

SAMPLE RESULTS

LAS CRUCES, NEW MEXICO

BUILDING: ADMIN BLDG

SAMPLE NO.	ACM LC-011	ACM LC-012	ACM LC-013	ACM LC-014	ACM LC-015
LOCATION	RM 105	RM 104	RM 104	RM 102	ROOF
TYPE OF MATERIAL	CT	FTM	BCM	CT	RM
PHOTO NO.	08	09	09	10	11
FUNCTIONAL SPACE NO.	03	03	03	04	05
CONDITION:					
% DAMAGE					
EXTENT					
TYPE					
POTENTIAL DISTURBANCE:					
AIR					
VIBRATION					
CONTACT					
QUANTITY					
RESULTS	N	N	N	N	N

COMMENTS:

SAMPLE RESULTS

LAS CRUCES, NEW MEXICO

BUILDING: MAINT BLDG

SAMPLE NO.	ACM LC-01A	ACM LC-02A	ACM LC-03A		
LOCATION	SHOP AREA	SHOP AREA	ROOF		
TYPE OF MATERIAL	FTM	BCM	RM		
PHOTO NO.	12	12	13		
FUNCTIONAL SPACE NO.	06	06	07		
CONDITION:					
% DAMAGE					
EXTENT					
TYPE					
POTENTIAL DISTURBANCE:					
AIR					
VIBRATION					
CONTACT					
QUANTITY					
RESULTS	N	N	N		

COMMENTS:

CLASSIFYING THE CONDITION OF SUSPECT MATERIAL
(SURFACING AND MISCELLANEOUS)

Poor Condition (equivalent to "Significantly Damaged" - AHERA)

Material with one or more of the following characteristics:

- O The surface crumbling or blistered over at least one tenth of the surface if the damage is evenly distributed, or, one quarter if localized.
- O Large areas of material hanging from the surface, delaminated or showing adhesive failure.
- O Water stains, gouges, or mars over at least one tenth of the surface if the damage is evenly distributed, or, one quarter if localized.

Accumulation of powder, dust, or debris similar in appearance to the suspect material on surfaces beneath the material can be used as confirmatory evidence.

Fair condition (equivalent to "Damaged" - AHERA)

Material with the following characteristics:

- O The surface crumbling, blistered, water stained, gouged, marred or otherwise abraded over less than one tenth of the surface if the damage is evenly distributed, or, one quarter if localized.

Accumulation of powder, dust, or debris similar in appearance to the suspect material on surfaces beneath the material can be used as confirmatory evidence.

Good Condition

Material with no visible damage or deterioration, or showing only limited damage or deterioration.

AHERA definitions for friable surfacing and miscellaneous materials:

Significantly Damaged - ACBM where the damage or deterioration is extensive and severe.

Damaged - ACBM where the damage or deterioration is characterized by inadequate cohesion or adhesion.

CLASSIFYING THE CONDITION OF SUSPECT MATERIAL
(THERMAL SYSTEMS INSULATION)

Poor Condition (equivalent to "Significantly Damaged" - AHERA)

Material with one or more of the following characteristics:

- o Mostly missing jackets.
- o Crushed or heavily gouged or punctured insulation on at least one tenth of pipe runs/risers if the damage is evenly distributed, or, one quarter if localized.

Accumulation of powder, dust, or debris similar in appearance to the suspect material on surfaces beneath the material can be used as confirmatory evidence.

Fair condition (equivalent to "Damaged" - AHERA)

Material with one or more of the following characteristics:

- o A few water stains or sections of missing jackets.
- o Crushed or water stained insulation, gouges, punctures or mars on up to one tenth of the insulation if the damage is evenly distributed, or, one quarter if localized.

Accumulation of powder, dust, or debris similar in appearance to the suspect material on surfaces beneath the material can be used as confirmatory evidence.

Good Condition

Material with no visible damage or deterioration, or showing only limited damage or deterioration.

AHERA definitions for friable surfacing and miscellaneous materials:

Significantly Damaged or Damaged - Insulation which has lost its structural integrity or its covering, is crushed, waterstained, gouged, punctured, missing or not intact.

FACTORS TO BE USED IN DETERMINING THE POTENTIAL
FOR DISTURBANCE OF SUSPECT MATERIAL

Potential for Contact with the Material:

- High: Service workers in the vicinity of the material more than once a week, or
- The material is in a public area (e.g. hallway, corridor, auditorium) and accessible to building occupants.
- Moderate: Service workers work in the vicinity of the material once per month to once per week, or
- The material is in a room or office and accessible to the occupants.
- Low: Service workers work in the vicinity of the material less than once per month, or
- The visible but not in reach of the building occupants.

Influence of vibration:

- High: Loud motors or engines present (e.g. some fan rooms), or
- Intrusive noises or easily sensed vibrations (e.g. major airports or highway).
- Moderate: Motors or engines present but not obtrusive (e.g. ducts vibrating but no fan in the area), or
- Occasional loud sounds (e.g. a music room).
- Low: None of the above.

Potential for Air Erosion:

- High: High velocity air (e.g. elevator shaft, fan room).
- Moderate: Noticeable movement of air (e.g. air shaft, ventilator air stream).
- Low None of the above.

SAMPLE SUMMARY

LAS CRUCES, NEW MEXICO

BUILDING: ADMIN BLDG

ACBM LOCATION		ACBM CHARACTERISTICS				ACBM ASSESSMENT		
HOMO AREA NO.	FUNC SPACE NO.	TYPE OF MATER	FRIABLE OR NON-FRI	ASB %	MATER AMT	COND	POT DIST	HAZ RANK
01	03	FTM	NON FRIABLE	10-20	1400 SF	GOOD	L	7

Note: Non-friable materials are not assessed under AHERA guidelines, therefore receive no response action. They are not considered a health hazard unless an activity causes the material to become friable (i.e. renovation or demolition).

Comments: _____

INSPECTOR: _____

DATE: _____

CLASSIFICATION FOR THE LEVEL
OF POTENTIAL DISTURBANCE

Level of Potential Disturbance	Frequency of Potential Contact	Influence of Vibration	Potential for Air Erosion
--------------------------------------	--------------------------------------	---------------------------	------------------------------

HIGH
("Potential
for
significant
damage" as
defined in
AHERA)

Any High Value

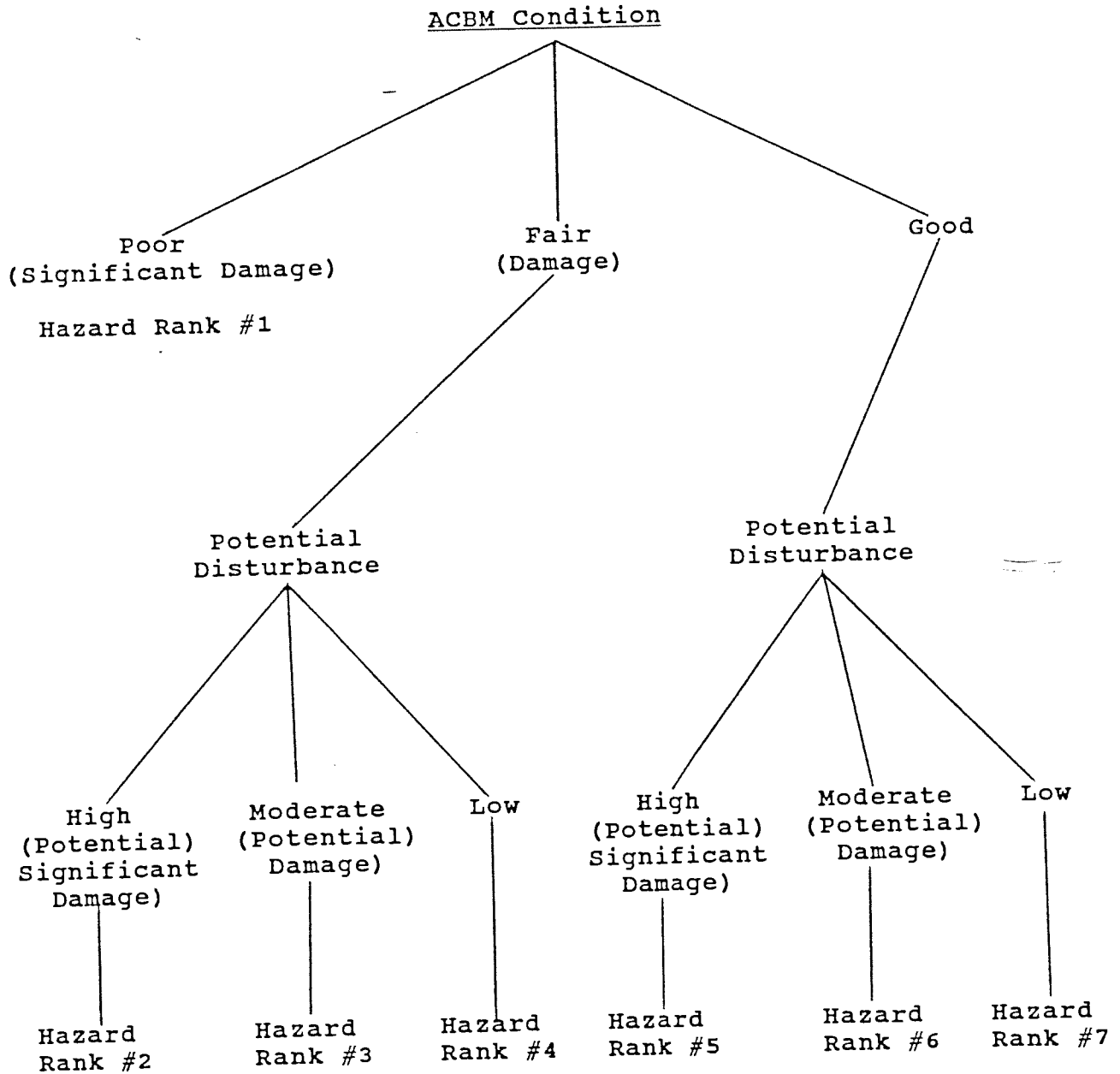
MODERATE
("Potential
for Damage"
as defined
in AHERA)

Any Moderate Value

LOW

All Low Values

CLASSIFICATION FOR HAZARD POTENTIAL
(DECISION TREE DISPLAY)






RESPONSE ACTIONS BASED ON HAZARD RANKING

HAZARD RANK	ABATEMENT PRIORITY	AHERA CATEGORIES	AHERA REQUIRED RESPONSE ACTION
1	1	Significantly Damaged	Evacuate or isolate the area if needed. Remove the ACBM (or enclose/encapsulate if sufficient to contain the fibers). Repair of thermal system insulation is allowed if feasible and safe. O&M required for all friable ACBM.
2	2	Damaged & Potential for Significant Damage	Remove, enclose, encapsulate, or repair to correct damage. Take steps to reduce potential for disturbance. O&M required for all friable ACBM.
3	3	Damaged & Potential for Damage	Remove, enclose, encapsulate, or repair to correct damage. O&M required for all friable ACBM.
4	4	Damaged	Same as Hazard Rank #3
5	5	Potential for significant Damage	Evacuate or isolate the area if needed. Take steps to reduce potential for disturbance. O&M required for all friable ACBM.
6	6	Potential for Disturbance	O&M required for all friable ACBM.
7	7	No Problem	O&M required for all friable ACBM, but measures need not be as extensive as above.

Note: AHERA does not account for combinations of current and potential damage (i.e. hazard rank #2 and 3). The response actions shown are combinations of those required for each condition.

ASBESTOS LOCATOR MAP

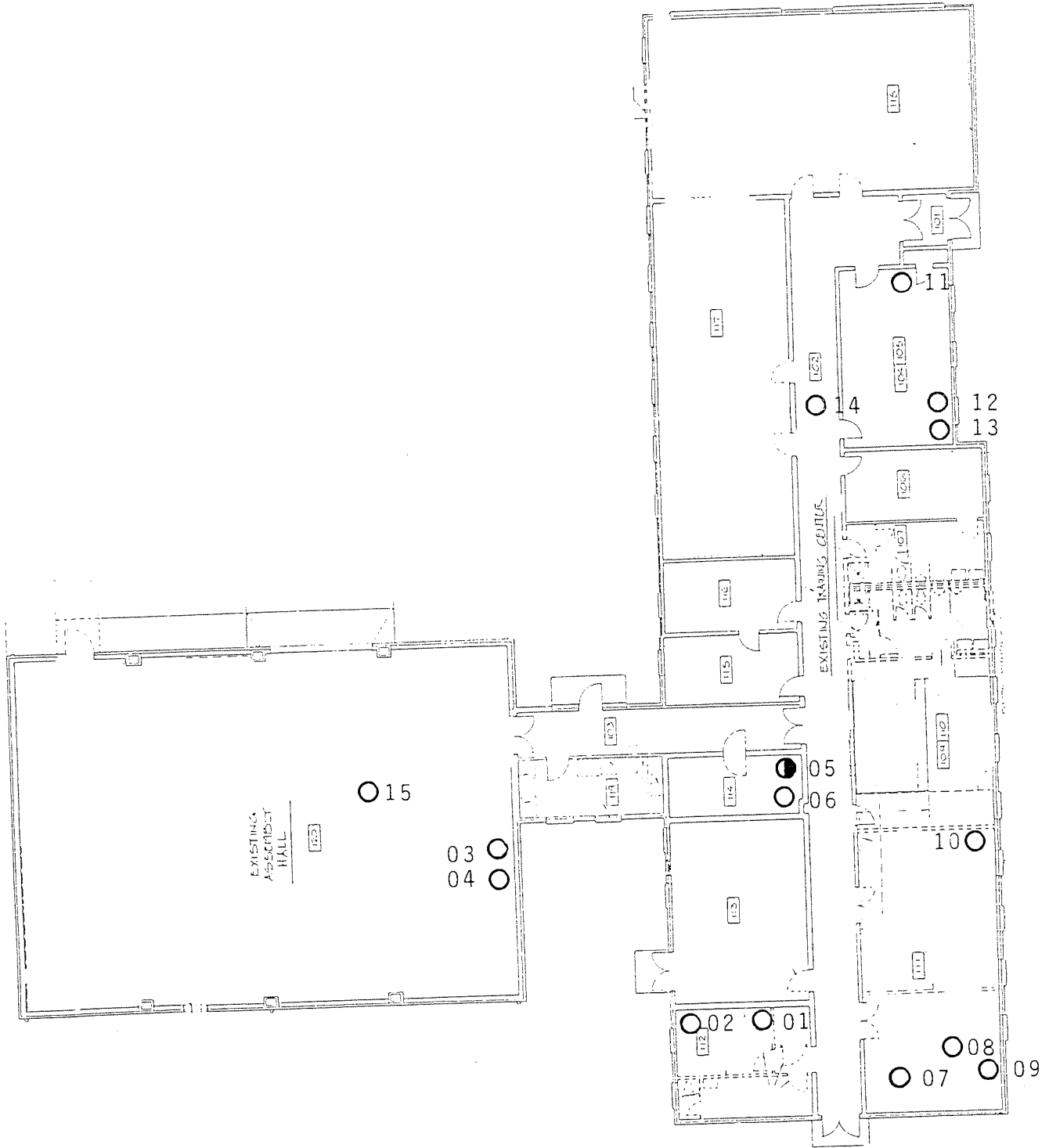
LEGEND

-  - Positive Sample
-  - Positive Sample, Mastic Only
-  - Negative Sample

FS # - Functional Space

LIST OF ABBREVIATIONS

AI - Acoustical Insulation	GB - Gypsum Board
AT - Acoustical Tile	GBM - Gypsum Board & Mud
BC - Base Cove	M - Mastic
BCM - Base Cove & Mastic	MF - Misc. Friable Material
BI - Boiler Insulation	MNF - Misc. Non- Friable Material
CT - Ceiling Tile	P - Plaster
DI - Duct Insulation	PI - Pipe Insulation
FI - Flue Insulation	PFI - Pipe Fitting Insulation
FP - Fire Proofing	RM - Roofing Material
FS - Floor Sheeting	S - Soil
FSM - Floor Sheet & Mastic	TI - Tank Insulation
FT - Floor Tile	TB - Transite Board
FTM - Floor Tile & Mastic	TS - Transite Shingle
GM - Gasket Material	TSI - Thermal Systems Insulation
	VC - Vibration Collar



ESSTEK, INC.

A Member of the ERIC GROUP, INC.

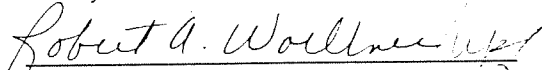
POLARIZED LIGHT MICROSCOPY ANALYSIS REPORT

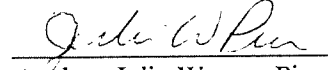
Client: **Fort Carson**
DECAM, Building 303
Fort Carson, CO 80913-5023

Account: #100600
Contact: Ed Tebo
Project: Las Cruces

Date Received: Jun 21 93
Date Analyzed: Jun 23 93
Date Reported: Jun 23 93
Reported To: Fax
Submitted By: Federal Express
Report No.: PLM-807013
P. O.#: Not Provided

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


Laboratory Director, Robert A. Woellner


Analyst, Julie Warner Pier

Results:				
Lab Sample# Appearance Location/Description	Client Sample #	Percent & Type of Asbestos	Percent & Type of Non-Asbestos	Layer* I-H
PL807013 Fibrous White pipe insulation, pipe fitting	ACM LC-001	None Detected	35% Binders 30% Glass Fibers 20% Cellulose 10% Synthetic 5% Mineral Cleavages	I
PL807014 Fibrous Yellow pipe insulation, pipe	ACM LC-002	None Detected	40% Glass Fibers 20% Synthetic 15% Binders 10% Cellulose 10% Paint 5% Mineral Cleavages	I
PL807015A Fibrous Toast floor tile	ACM LC-003	None Detected	60% Mineral Cleavages 30% Binders 10% Wood Fibers	I
PL807015B Fibrous Toast floor tile, gold mastic	ACM LC-003	None Detected	65% Binders 20% Mineral Cleavages 10% Glass Fibers 5% Wood Fibers	I

7248 South Tucson Way
Englewood, Colorado 80112

303-790-0529 1-800-753-8504
FAX: 303-790-1028

Results:

Lab Sample# Appearance Location/Description	Client Sample #	Percent & Type of Asbestos	Percent & Type of Non-Asbestos	Layer* I-H
PL807016A Nonfibrous Brown 4" base cove	ACM LC-004	None Detected	50% Binders 50% Mineral Cleavages	I
PL807016B Fibrous Brown 4" base cove, tan mastic	ACM LC-004	None Detected	65% Binders 20% Mineral Cleavages 10% Cellulose 5% Synthetic	I
PL807017A Fibrous Grey floor tile	ACM LC-005	None Detected	60% Mineral Cleavages 35% Binders 5% Wood Fibers	I
PL807017B Fibrous Grey floor tile, black mastic	ACM LC-005	10-20% Chrysotile	45-55% Binders 20% Mineral Cleavages 5% Cellulose	I
PL807018A Fibrous Grey 4" base cove	ACM LC-006	None Detected	60% Binders 30% Mineral Cleavages 10% Cellulose	I
PL807018B Fibrous Grey 4" base cove, tan mastic	ACM LC-006	None Detected	55% Binders 40% Mineral Cleavages 5% Cellulose	I
PL807019A Nonfibrous Brown 4" base cove	ACM LC-007	None Detected	50% Binders 50% Mineral Cleavages	I
PL807019B Fibrous Brown 4" base cove, tan mastic	ACM LC-007	None Detected	80% Binders 20% Mineral Cleavages	I
PL807020 Fibrous Tan carpet	ACM LC-008	None Detected	70% Synthetic 20% Binders 10% Mineral Cleavages	I
PL807021 Fibrous Ceiling, gypsum board, white texture	ACM LC-009	None Detected	30% Wood Fibers 20% Binders 20% Gypsum 10% Cellulose 10% Mineral Cleavages 10% Paint	I

Results:				
Lab Sample# Appearance Location/Description	Client Sample #	Percent & Type of Asbestos	Percent & Type of Non-Asbestos	Layer* I-H
PL807022 Fibrous White ceiling gypsum board	ACM LC-010	None Detected	30% Carbonate Binders 30% Cellulose 20% Mineral Cleavages 10% Gypsum 5% Glass Fibers 5% Paint, White	I
PL807023 Fibrous Yellow 1x1 acoustical ceiling tile	ACM LC-011	None Detected	70% Glass Fibers 15% Binders 5% Cellulose 5% Mineral Cleavages 5% Paint, White	I
PL807024A Fibrous Light toast 12x12 floor tile	ACM LC-012	None Detected	60% Mineral Cleavages 30% Binders 5% Cellulose 5% Glass Fibers	I
PL807024B Fibrous Light toast 12x12 floor tile, tan mastic	ACM LC-012	None Detected	60% Binders 30% Mineral Cleavages 10% Glass Fibers	I
PL807025A Fibrous Brown 4" base cove	ACM LC-013	None Detected	65% Binders 30% Mineral Cleavages 5% Cellulose	I
PL807025B Fibrous Brown 4" base cove, tan mastic	ACM LC-013	None Detected	70% Binders 20% Mineral Cleavages 5% Cellulose 5% Glass Fibers	I
PL807026 Fibrous Gray 2x4 ceiling tile	ACM LC-014	None Detected	40% Mineral Wool 30% Wood Fibers 10% Binders 10% Perlite 5% Mineral Cleavages 5% Paint, White	I
PL807027 Fibrous Black built-up roofing material	ACM LC-015	None Detected	50% Organic Binders 20% Cellulose 20% Mineral Cleavages 5% Glass Fibers 5% Synthetic	I
PL807028A Fibrous Grey with white 12x12 floor tile	ACM LC-01A	None Detected	60% Mineral Cleavages 30% Binders 5% Cellulose 5% Glass Fibers	I

Results:				
Lab Sample# Appearance Location/Description	Client Sample #	Percent & Type of Asbestos	Percent & Type of Non-Asbestos	Layer* I-H
PL807022 Fibrous White ceiling gypsum board	ACM LC-010	None Detected	30% Carbonate Binders 30% Cellulose 20% Mineral Cleavages 10% Gypsum 5% Glass Fibers 5% Paint, White	I
PL807023 Fibrous Yellow 1x1 acoustical ceiling tile	ACM LC-011	None Detected	70% Glass Fibers 15% Binders 5% Cellulose 5% Mineral Cleavages 5% Paint, White	I
PL807024A Fibrous Light toast 12x12 floor tile	ACM LC-012	None Detected	60% Mineral Cleavages 30% Binders 5% Cellulose 5% Glass Fibers	I
PL807024B Fibrous Light toast 12x12 floor tile, tan mastic	ACM LC-012	None Detected	60% Binders 30% Mineral Cleavages 10% Glass Fibers	I
PL807025A Fibrous Brown 4" base cove	ACM LC-013	None Detected	65% Binders 30% Mineral Cleavages 5% Cellulose	I
PL807025B Fibrous Brown 4" base cove, tan mastic	ACM LC-013	None Detected	70% Binders 20% Mineral Cleavages 5% Cellulose 5% Glass Fibers	I
PL807026 Fibrous Gray 2x4 ceiling tile	ACM LC-014	None Detected	40% Mineral Wool 30% Wood Fibers 10% Binders 10% Perlite 5% Mineral Cleavages 5% Paint, White	I
PL807027 Fibrous Black built-up roofing material	ACM LC-015	None Detected	50% Organic Binders 20% Cellulose 20% Mineral Cleavages 5% Glass Fibers 5% Synthetic	I
PL807028A Fibrous Grey with white 12x12 floor tile	ACM LC-01A	None Detected	60% Mineral Cleavages 30% Binders 5% Cellulose 5% Glass Fibers	I

Results:				
Lab Sample# Appearance Location/Description	Client Sample #	Percent & Type of Asbestos	Percent & Type of Non-Asbestos	Layer* I-H

PL807028B Fibrous Grey with white 12x12 floor tile, gold mastic	ACM LC-01A	None Detected	70% Binders 20% Mineral Cleavages 10% Cellulose	I
PL807029A Fibrous Brown 4" base cove	ACM LC-02A	None Detected	65% Binders 30% Mineral Cleavages 5% Cellulose	I
PL807029B Fibrous Brown 4" base cove, tan mastic	ACM LC-02A	None Detected	70% Binders 20% Mineral Cleavages 10% Cellulose	I
PL807030 Fibrous Black built-up roof material	ACM LC-03A	None Detected	65% Organic Binders 20% Glass Fibers 10% Mineral Cleavages 5% Cellulose	I

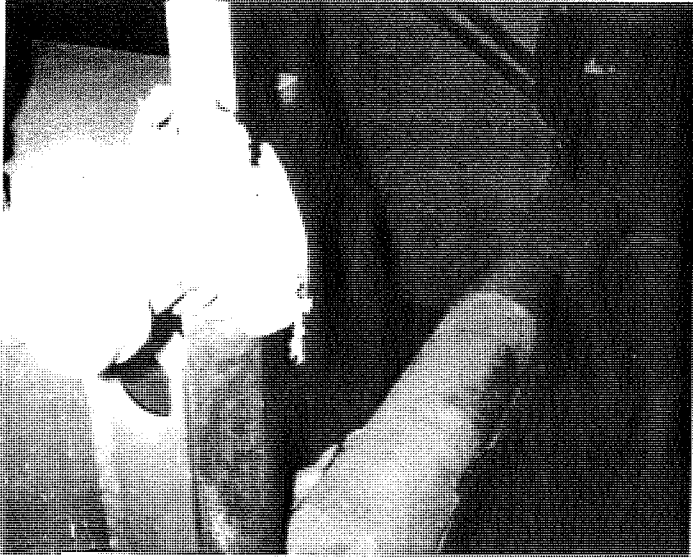
Attached are the results of analysis of bulk samples submitted for asbestos identification. EssTek, Inc. follows EPA Method 40 CFR Chapter 1 (1-1-87), Part 763, Subpart F, App., pages 293-299.

Each sample was initially examined under a Nikon SMZ-2T 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 non-asbestos fibers and by point counting.

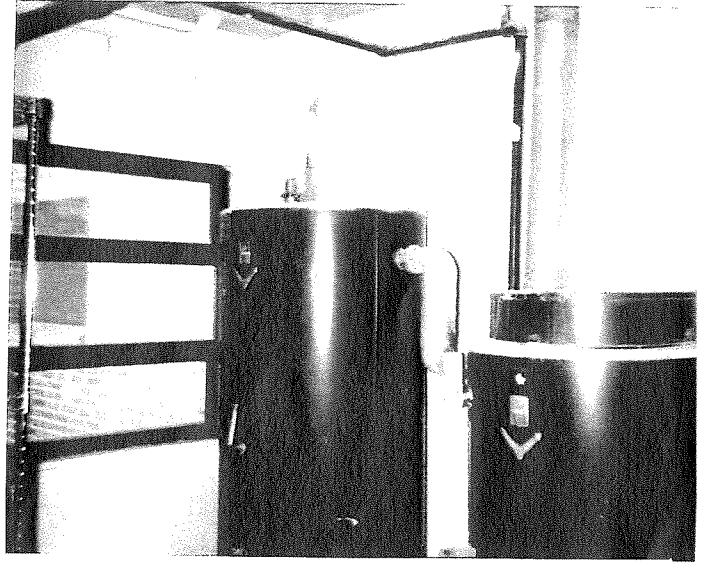
The samples analyzed in this report were provided by third parties not subject to control by EssTek, Inc. or its affiliates. Consequently, the results presented represent microscopic examinations in EssTek's insured laboratory facilities and EssTek, Inc. makes no representation as to sample collection techniques or procedures.

EssTek, Inc. is accredited by and participates in the National Voluntary Laboratory Accreditation Program. Our NVLAP Laboratory I.D. Number is 1602. This report must not be used to claim product endorsement by NVLAP or any agency of the U. S. Government.

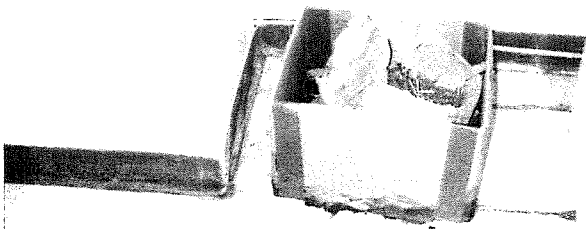
* I in the layer column above indicates an inhomogeneous sample; H indicates an homogenous sample.



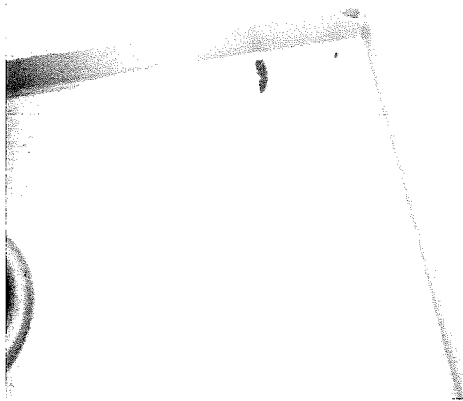
**PHOTO NUMBER
01**



**PHOTO NUMBER
02**



**PHOTO NUMBER
03**



**PHOTO NUMBER
04**

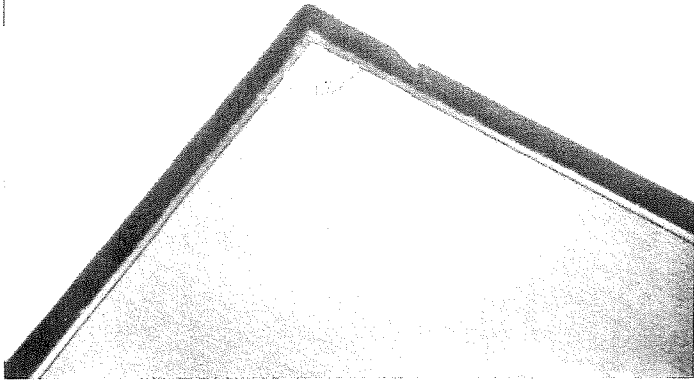


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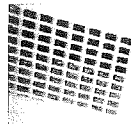


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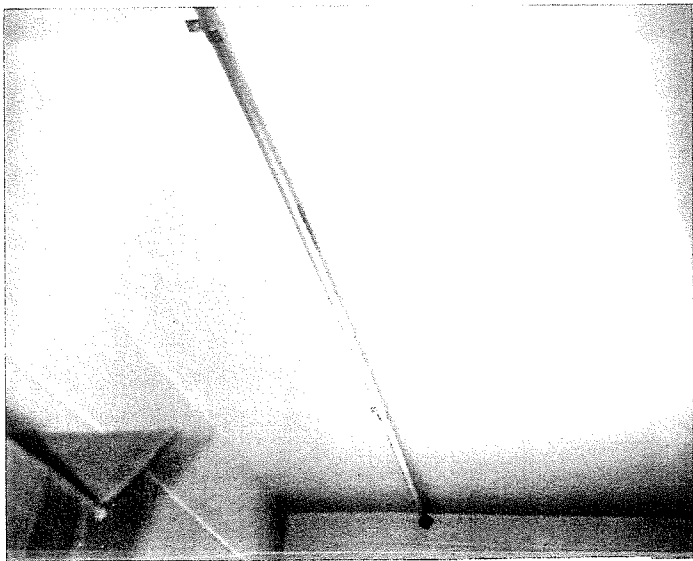


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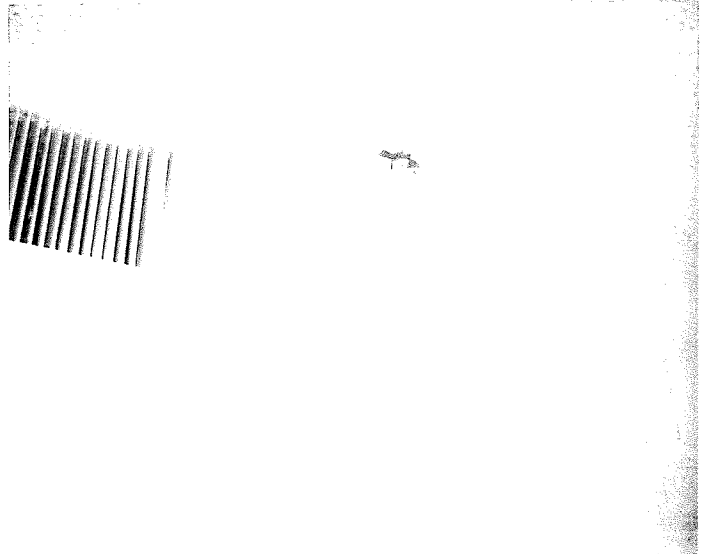


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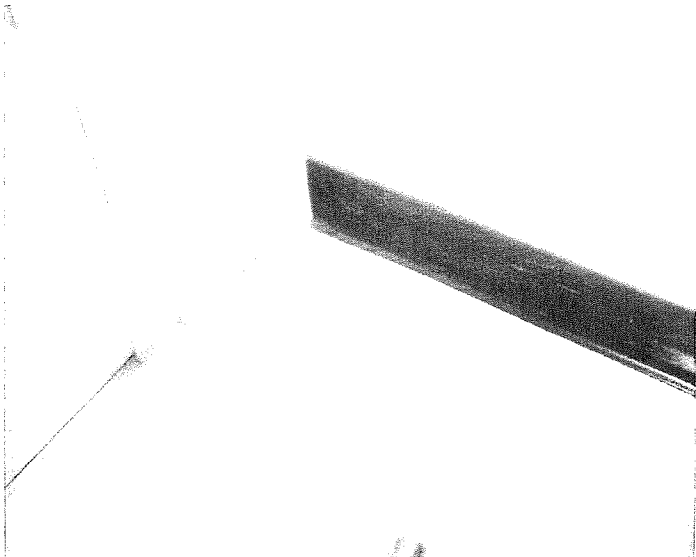


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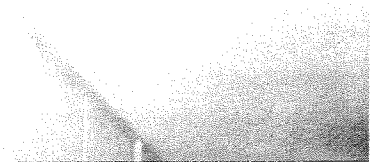


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10



PHOTO NUMBER
11

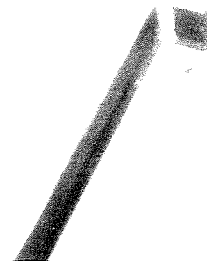


PHOTO NUMBER
12



PHOTO NUMBER
13

17 Sep 93

MEMORANDUM FOR Las Cruces, New Mexico, Army Reserve Center,
Facility Manager, Attn: Lt. Butler

SUBJECT: Asbestos Survey Results for 90th ARCOM Facilities

1. The Directorate of Environmental Compliance and Management (DECAM), in response to a request from the 90th ARCOM, has prepared detailed asbestos survey's, analysis of health risk to your personnel, and recommended actions, if followed, should provide adequate protection against excessive exposure to friable asbestos.

2. An attempt has been made to answer specific questions which would be important to you. If we have not met your expectations, please tell us where we can improve these reports. Some of the questions we deemed important to answer were:

- Where is the asbestos located within our area of responsibility?
- Are there any problems with it?
- What should be done about it?

3. The following facilities have been inspected under this request. Copies of this report have been furnished to the respective facility managers:

El Paso, TX	Army Reserve Center
Artesia, NM	Army Reserve Center
Roswell, NM	Army Reserve Center
Las Cruces, NM	Army Reserve Center
Silver City, NM	Army Reserve Center

4. The DECAM has a current Asbestos Management Plan inclusive of all Army Reserve Centers. A copy of these reports will be filed with other DECAM survey's for future reference. If we can be of any further assistance in Project Design, Contract/Specification preparation, Contract Inspection please feel free to contact Mr Nick Pallotto, Asbestos Program Manager at DSN 691-5193 or COM (719) 579-5193.

AFZC-ECM-EC

SUBJECT: Asbestos Survey Results for 90th ARCOM Facilities



NICK D. PALLOTTO

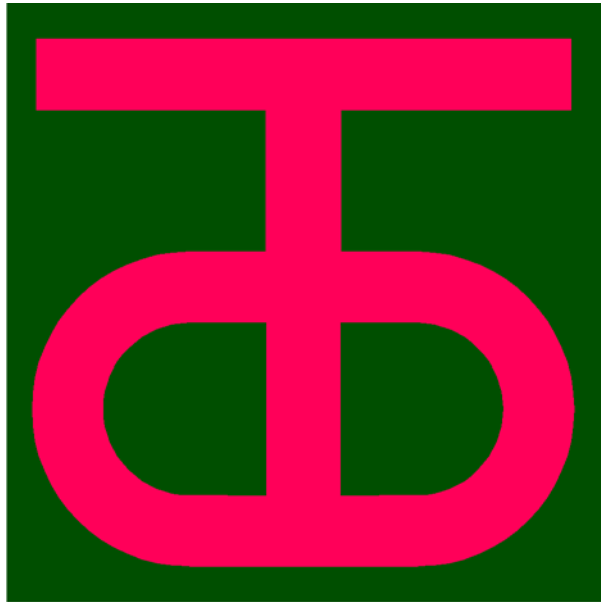
Program Manager

Asbestos/Lead

CF: ARC, EL PASO, TX
ARC, ARTESIA, NM
ARC, ROSWELL, NM
ARC, LAS CRUCES, NM
ARC, SILVER CITY, NM

ASBESTOS BUILDING INSPECTION

Gallagher Memorial U.S. Army Reserve Center
Las Cruces, New Mexico



Prepared by:

U.S. Army 90th Regional Support Command

May 1997

Table of Contents

1.0	INTRODUCTION	1
2.0	INSPECTION SCOPE	1
3.0	CONCLUSIONS	1

1.0 INTRODUCTION

A review of the Asbestos Inspection for Gallagher (NM005) United States Army Reserve Center (USARC), 1300 West Brown Road, Las Cruces, NM, 88005, was performed by the Environmental Section at the 90th Regional Support Command, United States Army Reserve (USAR), 8000 Camp Robinson Road, North Little Rock, AR 72118.

2.0 INSPECTION SCOPE

The purpose of this inspection is to *assist* in the compliance with Army Regulation 200-1, Chapter 10, Sections 2 & 3. Parts “j” and “k” of section two state:

The Army will....

j. Perform surveys to identify the existence, extent, and condition of all* asbestos (both friable and nonfriable) in all DA- controlled structures. Ensure that these surveys are kept current.

k. Identify in detail and validate the existence, extent, and condition of all* asbestos (both friable and nonfriable) in structures prior to renovation, demolition, or excessing. Ensure that employees, visitors, and contractors are appropriately notified of any asbestos related health hazard**. Ensure that working conditions are safe and that all actions are performed per Federal, State, local, and host- nation requirements.

* this survey may not identify all possible asbestos. Some asbestos may not be found until demolition is planned.

** the inspection does not include hazard identification. Some aspects of hazard are addressed in the management plan described by Section 3 of Chapter 10.

3.0 CONCLUSIONS

After reviewing the Inspection report provided by the Fort Carson Directorate of Environmental Compliance and performing a walk through of the building, it was concluded that the existing survey report was adequate for the 90th RSC's needs. That report, in its entirety, is attached.

During the walk through inspection, an assumed asbestos containing flexible duct connector was seen in the assembly hall on a working air handler. This ACM was not noted in the original report. It is in fair condition with a high probability for disturbance because of the large amounts of air passing through the air handler.



LIMITED ASBESTOS SURVEY

At:

**U.S Army Reserve Center
1300 W. Brown Road
Las Cruces, New Mexico 88005**

Prepared for:

**MGE Constructors
Attn: Mr. Chuck Eichensehr
506 7th Street
Wichita Falls, Texas 76307**

Prepared by:

**L&P Scientific Consulting, LLC
1131 E. Wyoming Ave.
El Paso, Texas 79902**

DSHS License No. 100385

Date of Inspection:

October 6, 2011

LPSC Project No. 11332

October 11, 2011

MGE Constructors
Attn: Mr. Chuck Eichensehr
506 7th Street
Wichita Falls, Texas 76307

**Project: Limited Asbestos Survey
U.S. Army Reserve Center
1300 W. Brown Road
Las Cruces, New Mexico 88005**

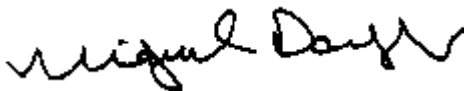
Dear Mr. Eichensehr:

L&P Scientific Consulting, LLC (LPSC) is pleased to submit this report of the limited asbestos survey conducted at the building referenced above. This survey consisted of the collection of three (3) bulk samples following the federal AHERA and NESHAP rules, and applicable state regulations regarding asbestos-containing materials in buildings scheduled for renovation or demolition.

This survey was performed by Mr. Alfredo Lopez, a certified asbestos inspector on October 6, 2011. Mr. Lopez has been trained in accordance with all applicable regulations.

We appreciate the opportunity to be of service to you. Please call us at (915) 838-1188 if you have any questions or if we may be of further assistance.

Sincerely,



Miguel Dominguez
Asbestos Consultant



Alfredo Lopez
Asbestos Inspector

SUMMARY

L&P Scientific Consulting, LLC (LPSC) presents the findings of a limited asbestos survey performed at the U.S. Army Reserve Center located at 1300 W. Brown Road, Las Cruces, New Mexico 88005. The purpose of our survey was to identify, locate, and quantify suspect asbestos-containing materials (ACM), if any, that may be disturbed during the renovation or demolition activities.

The laboratory results do not indicate asbestos present in any of the samples collected and analyzed.

INTRODUCTION

The limited asbestos survey was conducted by Mr. Alfredo Lopez on October 6, 2011, and was performed in accordance with the federal AHERA rules (40 CFR Part 763 Subpart E) and the NESHAP regulations requiring an asbestos inspection for buildings scheduled for renovation or demolition (40 CFR Part 61.145).

During our site reconnaissance, one (1) homogeneous area was identified and consisted of the following:

Table 1 (Homogenous Areas Identified During the Inspection)

MATERIAL DESCRIPTION	LOCATION (See attached drawing)
12" Floor Tile & Black Mastic	Supply and Storage Area

DESCRIPTION OF BUILDING

The area inspected was limited to the supply and storage area of the building, which was vacant at the time of the inspection. Building materials include concrete masonry units (CMU) and 2' X 4' ceiling panels. Floor finishes consisted of resilient floor tile on a concrete floor.

SAMPLING PLAN

Prior to sampling, a visual survey was performed to establish homogeneous areas. Suspect Asbestos-Containing Materials (ACM) were touched by the inspector to determine their friability. One (1) homogeneous area was established and at least one representative sample was taken of each area. A homogeneous area is considered as an area of surfacing material, thermal system insulation material, or miscellaneous material that is uniform in color and texture. Non suspect building materials that were not sampled during this inspection include: concrete, metal, and wood materials. Destructive sampling was not performed to locate hidden suspect materials. Additional layers of floor tiles were not observed underneath the top layer of floor tile.

ANALYSIS OF BULK SAMPLES

A total of twelve (12) bulk samples were collected and submitted for analysis. Bulk samples collected were sampled following the AHERA protocol and were analyzed for asbestos content at Micro Analytical Services located in Houston, Texas. An asbestos containing building material includes any asbestiform varieties of chrysotile, amosite, crocidolite, tremolite, anthophyllite, and actinolite containing more than 1% of any of those substances as determined by appendix A, Subpart F, 40 CFR part 763 section 1. EPA NESHAP Part 61 defines friable ACM as when dry can be pulverized, crushed or reduced to a powder by hand pressure.

RESULTS

The laboratory results do not indicate asbestos present in any of the samples collected and analyzed.

CONCLUSION

LPSC has performed a limited asbestos survey at the U.S. Army Reserve center located at 1300 W. Brown Road, Las Cruces, New Mexico 88005. Based on the laboratory results, no further asbestos investigation is recommended. However, if new building materials are encountered during the renovation activities, additional sampling and analysis may be required.

END OF REPORT

Laboratory Results



Micro Analytical Services, Inc. 11301 Richmond Ave. Ste.K100B♦Houston♦Tx 77082♦Phone(281)497-4500♦Fax(281)497-4517

NVLAP Lab No. 200618-0

TDSHS License No. 30-0341

PLM BULK ASBESTOS ANALYSIS REPORT

CLIENT: L & P Scientific Consulting

MAS JOB NO.: 8780-00

PROJECT: 1300 W. Brown Rd.

REPORT DATE: October 7, 2011

IDENTIFICATION: Asbestos, Bulk Sample Analysis, Quantitation by Visual Area Estimation

TEST METHOD: Polarized Light Microscopy with Dispersion Staining
EPA Test Method 600/M4-82-020;
Interim (40CFR Part 763 Appendix E to Subpart E)

STATEMENT OF LABORATORY ACCREDITATION

These samples were analyzed at Micro Analytical Services, Inc. in the Asbestos Laboratory at 11301 Richmond Ave. Suite K100B, Houston, Texas, 77082. The Laboratory holds accreditation from the National Institute of Standards and Technology under the National Voluntary Laboratory Accreditation Program (NVLAP). This laboratory is also licensed and authorized to perform as an Asbestos Laboratory in the State of Texas within the purview of Texas Civil Statutes, Article 4477-3a, as amended, so long as this license is not suspended or revoked and is renewed according to the rules adopted by the Texas Board of Health.

The samples were analyzed in general accordance with the procedures outlined in the Method for the Determination of Asbestos in Bulk Building Materials, EPA/600/M4-82-020 or the U.S. Environmental Protection Agency method, under AHERA, for the analysis of asbestos in building materials by polarized light microscopy. The results of each bulk sample relate only to the material tested and the results shall not be used to claim product endorsement by NVLAP or any agency of the U.S. Government.

Specific questions concerning bulk sample results shall be directed to the Asbestos Bulk Laboratory at Micro Analytical Services, Inc.

Analyst: Tony T. Dang

Approved Signatory:



Polarized Light Microscopy Analysis

L & P Scientific Consulting
1131 E. Wyoming Ave.
El Paso, Texas 79902

MAS Project #: 8780-00
Date Received: 10/07/2011
Date Analyzed: 10/07/2011

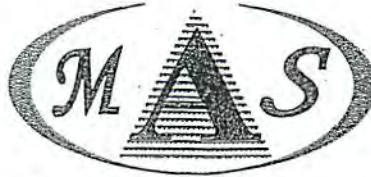
Project Name: 1300 W. Brown Rd.

Field ID/ Lab ID	Layer #	Sample Description	Asbestos Detected? (Yes/No)	Asbestos Constituents (%)	Non-Asbestos Constituents (%)
S-01 MAS233083	1	Beige non-fibrous floor tile	No		100% Other
S-01 MAS233083	2	Black fibrous mastic	No		5% Polyethylene 95% Mastic
S-02 MAS233084	1	Beige non-fibrous floor tile	No		100% Other
S-02 MAS233084	2	Black fibrous mastic	No		5% Polyethylene 95% Mastic
S-03 MAS233085	1	Beige non-fibrous floor tile	No		100% Other
S-03 MAS233085	2	Black fibrous mastic	No		5% Polyethylene 95% Mastic

Samples have been analyzed by the EPA Interim Method 600/M4-82-020. The test results herein relate only to the sample submitted and analyzed. This report may only be reproduced in full with the approval of the Bulk Asbestos Laboratory of Micro Analytical Services (MAS). The above percentages are visual estimates of area percent. MAS is not responsible for any errors resulting from improper or incorrect sampling or shipping procedures. These samples will be retained for a period of 30 days. Accreditation by NVLAP in no way constitutes or implies product certification, approval, or endorsement by NIST. Some materials, especially floor tiles, contain asbestos fibers too thin to be detected by this method. NVLAP Lab Code: 2000618 TDSHS License: 30-0341

Analyzed by: Tony Dang

Approved NVLAP Signatory: Tony Dang
Page 1 of 1



Micro Analytical Services, Inc. 11301 Richmond Ave. Suite K100B Houston Texas 77082 Phone (281) 497-4500 Fax (281) 497-4517

Asbestos Bulk Sample Chain of Custody

Company: L&P Scientific Consulting	Contact:	Project Name: 1300 W. BROWN Rd
Address: 1131 E. Wyoming	Bill to: Miguel Dominguez	Project #: 11332
City: El Paso	Email: m.dominguez@lpscientific.com	PO #:
State/Zip: Texas 79902		
Phone: (915) 838 - 1188	Date Collected: 10.06.11	MAS Project #: 8780
Fax: (915) 838- 1166		

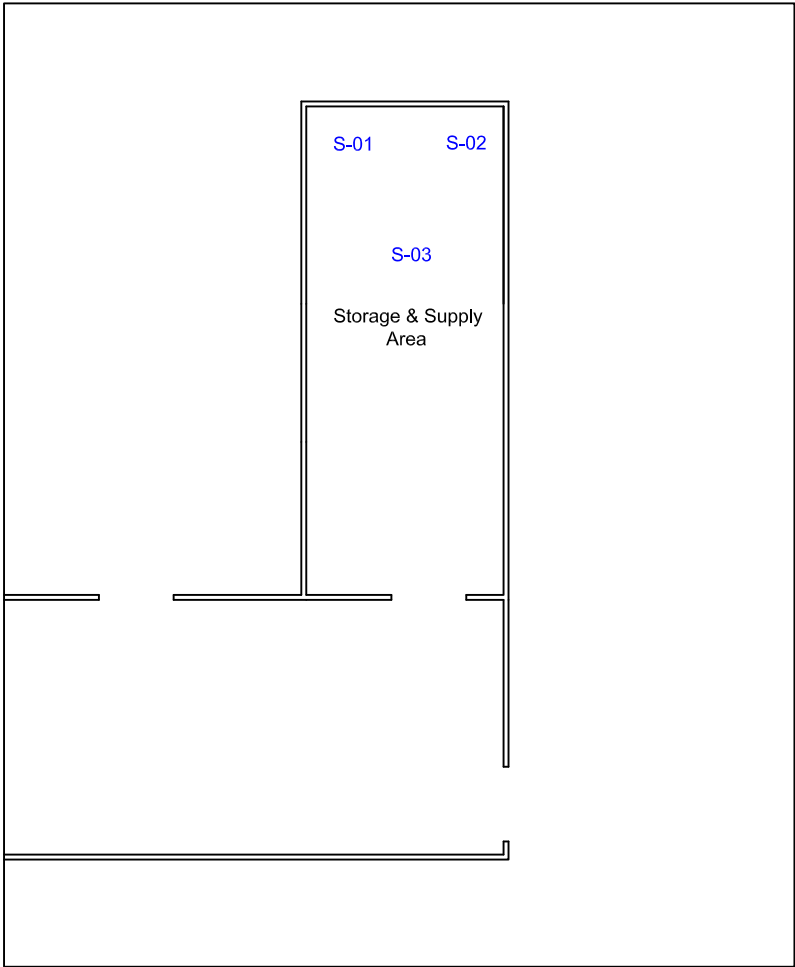
Turn around time (circle): Emergency 1-day 2-day 3-day 4-day 5-day

Field ID	Lab ID	Sample Description	Sample Location	Comments
S-01	235083	12" Floor Tile &	SUPPLY & STORAGE AREA	
S-02	16	BLACK MASTIC	↓	
S-03	235085	↓	↓	

Relinquished by: Alfredo Lopez Date: 10.06.2011 Time: 12:30 PM
 Received by: TONY DANIGS Date: 10/07/11 Time: 9:00 AM
 Relinquished by: _____ Date: _____ Time: _____
 Received by: _____ Date: _____ Time: _____

Drawing

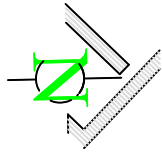
PROJECT LOCATION	DATE	DRAWN BY: FO
1300 W. Brown	October 11, 2011	




Asbestos Survey

Not To Scale

Asbestos Sample Locations	
S-XX	Sample locations



 L & P SCIENTIFIC CONSULTING, LLC 1131 E. WYOMING AVE EL PASO, TX 79902 Fax: (915) 838-1186 Phone : (915) 838-1188	DESCRIPTION	Asbestos Survey	
	SCALE	AS NOTED	SHEET

Certifications



TEXAS DEPARTMENT OF STATE HEALTH SERVICES

L&P SCIENTIFIC CONSULTING LLC

is certified to perform as a

Asbestos Consultant Agency

in the State of Texas within the purview of Texas Occupations Code, chapter 1954, so long as this license is not suspended or revoked and is renewed according to the rules adopted by the Texas Board of Health.

A handwritten signature in black ink, reading "David Lakey MD".

DAVID LAKEY, M.D.
COMMISSIONER OF HEALTH

License Number: 100385

Control Number: 96357

Expiration Date: 11/7/2012

(Void After Expiration Date)

VOID IF ALTERED NON-TRANSFERABLE



TEXAS DEPARTMENT OF STATE HEALTH SERVICES

MICRO ANALYTICAL SERVICES INC

is certified to perform as a

Asbestos Laboratory
PCM, PLM

in the State of Texas within the purview of Texas Occupations Code, chapter 1954, so long as this license is not suspended or revoked and is renewed according to the rules adopted by the Texas Board of Health.

A handwritten signature in cursive script, reading "David Lakey MD".

DAVID LAKEY, M.D.
COMMISSIONER OF HEALTH

License Number: 300341

Expiration Date: 1/25/2010

Control Number: 95469

(Void After Expiration Date)

VOID IF ALTERED NON-TRANSFERABLE



**Texas Department of
State Health Services**

Asbestos Inspector

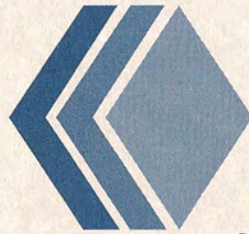
ALFREDO LOPEZ

License No. 602989

Control No. 96710

Expiration Date: 6/28/2013





M·E·T·A

Mayhew Environmental Training Associates

I N C O R P O R A T E D

Certificate # 7ME09221104AIR0007

This is to certify that

Alfredo Lopez

has on 09/22/2011, in El Paso, TX

completed the requirements for asbestos accreditation under Section 206 of TSCA Title II, 15 U.S.C. 2646

AHERA Asbestos Building Inspector Refresher Course

as approved by the State of Texas and the U.S.E.P.A. under 40 C.F.R. 763 (AHERA)

on 09/22/2011 - 09/22/2011 and passed the associated examination on 09/22/2011

with a score of 70% or better

CM = 0.5 PTS.



Soc. Sec #: XXX-XX-6466
Accreditation Expires: 9/22/12

Instructor
Juan Ayala

President
Thomas Bradford Mayhew

M E T A - P.O. Box 786 - Lawrence KS 66044 - 800-444-6382