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TECHNICAL SERVICES, INC.
ENVIRONMENTAL CONSULTANTS SPECIALIZING IN ASBESTOS & LEAD

November 17, 2015

VA Health Care System
Attn: Mr. John Fugger
6010 Amarillo Blvd., West
Amarillo, Texas 79106

Re: Random Asbestos Survey; VA Hospital, Building 1, Amarillo, Texas.

Dear Mr. Fugger:

On November 13, 2015 a random asbestos survey was conducted at the location referenced above. Enclosed is a copy of the chain of custody and lab results from Apex Precision Analytical.

During the course of the random asbestos survey a total of twelve (12) samples were taken as shown on the chain of custody at the location referenced above.

Of the materials that were tested, the following samples were found to be asbestos containing:

G111315V –

4, 5, 6 – Floor Tile Mastic

No other materials other than the ones tested and found to be non-asbestos containing can be interfaced.

All products not tested should be considered asbestos containing and should be tested for asbestos before they are disturbed in any way. All materials that contain more than 1% are considered to be asbestos containing. If found to be asbestos containing, the asbestos containing materials should be removed before interfacing, utilizing a Texas licensed asbestos consultant to perform plan design specification and air monitoring. After plan design specification are complete, a qualified asbestos abatement contractor that is licensed in the state of Texas should be obtained to perform abatement.

This random survey report should be reviewed before any building products are disturbed in any way.

November 17, 2015
Mr. Fugger
Page 2

Apex is a full service asbestos consulting company that is licensed by the Texas Department of State Health Services. We are able to provide all phases of the project that includes the mandated asbestos plan/design specifications and asbestos air monitoring during the duration of the asbestos abatement project. We are also able to help in your selection of a qualified licensed asbestos abatement contractor.

Please call and we would be very happy to discuss all the possible options that may be available on your project.

If you should have any questions, or would like to discuss any matter further, please let us know.

Sincerely,

APEX TECHNICAL SERVICES, INC.

Two handwritten signatures in black ink, one appearing to be 'Glen' and the other 'Ashton', written over the company name.

Glen Ashton

DISCLAIMER

This Random Asbestos Survey Report was compiled for Mr. John Fugger. This random survey was conducted utilizing a non-destructive method of research to determine asbestos content in the building. Items such as fire hoses, elevator brake shoes, roofing materials, chalk boards, transite panels, electrical wire insulation, safes, fire proof filing cabinets, fire proof doors, and materials inside ducts and boilers are seldom tested but should be assumed as asbestos containing until tested. Areas located in the building that are entombed in walls, tunnels, ceilings, floors, air ducts and chases were not tested to determine asbestos content, therefore, any suspicious material not listed in the report may contain asbestos. All suspicious material should be considered asbestos-containing until tested and proven different.

BULK SAMPLING PROCEDURES

A. METHODOLOGY STATEMENT

In all possible cases, the statistically random sampling techniques as outlined in EPA 560/5-85-030a were utilized following the sampling area grids provided. Large, non-adjacent homogeneous areas were divided into separate sampling areas in order to more logically fit the recommended grids. When the homogeneous areas had to be divided to better fit the grids, the minimum number of recommended samples were taken in each area as a cost savings measure still maintaining the necessary confidence level. Only when necessitated by imposed restrictions, i.e. inaccessibility, non-destruction, owner convenience, economics etc. were the statistically random sampling procedures not followed.

B. BULK SAMPLING PROCEDURES:

The bulk samples were collected in accordance with EPA 560/5-85-30a. Specific protocol included:

- Samples were taken in unoccupied areas.
- The surface of the material to be sampled was misted with amended water.
- The sample was taken following approved procedures. All samples were taken with a reusable core-borer or by removing a small piece of material with a sharp instrument.
- The sample instrument was properly cleaned after each use to prevent cross-contamination.
- The sample material was placed in a uniquely marked container for transport to the laboratory for analysis.
- The damaged sample area was sealed with an approved sealant.
- Any debris from the sampling properly cleaned using wet methods.

C. BULK SAMPLE LOCATION

VA Hospital, Building 1, 2nd Floor North End, Amarillo, Texas

D. BULK SAMPLE DATA

The laboratory results of the bulk samples and field data sheets are reported in the section following the bulk sample location drawings.



ENVIRONMENTAL CONSULTANTS SPECIALIZING IN ASBESTOS & LEAD

FOR: ASBESTOS (PLM) X LEAD MOLD ANALYSIS
TO: Apex Precision Analytical FED-EX

FED-EX _____
OTHER X

[illegible]

TURN AROUND TIME: 1 DAY X 3-5 DAYS OTHER

REMARKS: _____

1203 E. Hastings P.O. Box 3067 Amarillo, Texas 79116 (806) 381-9346 Fax:(806) 381-2756
1710 15th St. Lubbock, Texas 79401 (806) 762-3734
1709 8th St. Wichita Falls, Texas 76302 (940) 322-2739
apexasbestos@yahoo.com

ASBESTOS BULK ANALYSIS REPORT

Date: November 17, 2015

Apex Technical Services, Inc.

Report: 2415-3871
VA Hospital

This document shall be considered a duly signed original report of the results obtained from the analyses performed. All analyses are done within government guidelines and regulations.



Gary R. Simmons
Laboratory Manager

Lab Comments on Project: N/A

PLM (Bulk) - Asbestos Analysis Report - Visual ID (EPA Method 600/R-93-116 Visual Area Estimation)

Apex Technical Services, Inc.
211 SE 17th Street
Amarillo, TX 79102
806-381-8888
Contact: Glenn Ashton

Report Number: 2415-3871
Report Date: November 17, 2015
Samples Collected: November 13, 2015
Date Received: November 16, 2015
Turn-around time: 24 Hours

Job ID / Site: VA Hospital

Client Sample Number	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fibrous Type & %	Matrix
G111315C-01	2415-3871-01A	Yellow / Mastic / NonFibrous / Homogeneous	None Detected	None Detected	Binder
	2415-3871-01B	Tan / Floor Tile / NonFibrous / Homogeneous	None Detected	None Detected	Binder
	2415-3871-01C	Green / Mastic / NonFibrous / Homogeneous	None Detected	None Detected	Binder
G111315C-02	2415-3871-02A	Yellow / Mastic / NonFibrous / Homogeneous	None Detected	None Detected	Binder
	2415-3871-02B	Tan / Floor Tile / NonFibrous / Homogeneous	None Detected	None Detected	Binder
	2415-3871-02C	Green / Mastic / NonFibrous / Homogeneous	None Detected	None Detected	Binder
G111315C-03	2415-3871-03A	Yellow / Mastic / NonFibrous / Homogeneous	None Detected	None Detected	Binder
	2415-3871-03B	Tan / Floor Tile / NonFibrous / Homogeneous	None Detected	None Detected	Binder
	2415-3871-03C	Green / Mastic / NonFibrous / Homogeneous	None Detected	None Detected	Binder
G111315C-04	2415-3871-04A	Yellow / Mastic / NonFibrous / Homogeneous	None Detected	None Detected	Binder

Analytical results and reports are generated by Apex Precision Analytical Services at the request of and for the exclusive use of the person or entity (client) named on such report. Result, reports or copies of same will not be released by Apex Precision Analytical Services to any third party without the written request from client. These results only represent the materials submitted. Supporting laboratory documentation is available upon request. This report cannot be used to represent conditions at any other location, date or time and does not imply that this space is free from these or any other contaminants. No responsibility or liability is assumed for the manner in which these results are used or interpreted. This must not be used to claim product endorsement by NVLAP or any government agency of the United States. Apex Precision Analytical Services reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified.

PLM (Bulk) - Asbestos Analysis Report - Visual ID (EPA Method 600/R-93-116 Visual Area Estimation)

Apex Technical Services, Inc.
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Client Sample Number	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fibrous Type & %	Matrix
G111315C-04	2415-3871-04B	Red / Floor Tile / NonFibrous / Homogeneous	None Detected	None Detected	Binder
	2415-3871-04C	Black / Mastic / Fibrous / Homogeneous	Chrysotile 5%	None Detected	Binder
G111315C-05	2415-3871-05A	Yellow / Mastic / NonFibrous / Homogeneous	None Detected	None Detected	Binder
	2415-3871-05B	Red / Floor Tile / NonFibrous / Homogeneous	None Detected	None Detected	Binder
	2415-3871-05C	Black / Mastic / Fibrous / Homogeneous	Chrysotile 5%	None Detected	Binder
G111315C-06	2415-3871-06A	Yellow / Mastic / NonFibrous / Homogeneous	None Detected	None Detected	Binder
	2415-3871-06B	Red / Floor Tile / NonFibrous / Homogeneous	None Detected	None Detected	Binder
	2415-3871-06C	Black / Mastic / Fibrous / Homogeneous	Chrysotile 5%	None Detected	Binder
G111315C-07	2415-3871-07A	White / Grout / NonFibrous / Homogeneous	None Detected	None Detected	Binder
	2415-3871-07B	Tan / Mastic / NonFibrous / Homogeneous	None Detected	None Detected	Binder

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Client Sample Number	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fibrous Type & %	Matrix
G111315C-08	2415-3871-08A	White / Grout / NonFibrous / Homogeneous	None Detected	None Detected	Binder
	2415-3871-08B	Tan / Mastic / NonFibrous / Homogeneous	None Detected	None Detected	Binder
G111315C-09	2415-3871-09A	White / Grout / NonFibrous / Homogeneous	None Detected	None Detected	Binder
	2415-3871-09B	Tan / Mastic / NonFibrous / Homogeneous	None Detected	None Detected	Binder
G111315C-10	2415-3871-10A	White / Grout / NonFibrous / Homogeneous	None Detected	None Detected	Binder
	2415-3871-10B	Green / Mastic / NonFibrous / Homogeneous	None Detected	None Detected	Binder
G111315C-11	2415-3871-11A	White / Grout / NonFibrous / Homogeneous	None Detected	None Detected	Binder
	2415-3871-11B	Green / Mastic / NonFibrous / Homogeneous	None Detected	None Detected	Binder
G111315C-12	2415-3871-12A	White / Grout / NonFibrous / Homogeneous	None Detected	None Detected	Binder
	2415-3871-12B	Green / Mastic / NonFibrous / Homogeneous	None Detected	None Detected	Binder


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LICENSING & TRAINING

VA Hospital, Building 1, 2nd Floor, North End, Amarillo, Texas has been inspected by Glen Ashton. Mr. Ashton is an accredited Asbestos Consultant by the State of Texas.

The building was inspected under the guidelines of the U.S. Environmental Protection Agency.

Mr. Ashton completed his initial training from the University of Texas at Arlington.



SIGNATURE

November 17, 2015

DATE

Texas
STATE

10-5243
ACCRED. #



TEXAS DEPARTMENT OF STATE HEALTH SERVICES

APEX TECHNICAL SERVICES INC

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 cursive script, reading "David Lakey MD".

DAVID LAKEY, M.D.
COMMISSIONER OF HEALTH

License Number: 100063

Control Number: 96671

Expiration Date: 3/24/2016

(Void After Expiration Date)

VOID IF ALTERED NON-TRANSFERABLE

**Texas Department of
State Health Services**

Asbestos Individual Consultant

GLEN ASHTON

License No. 105243

Control No. 96825

Expiration Date: 4/5/2017



SCAI TRAINING CENTER

headquarters: 1409 montana ave el paso, texas 79902-5617
(915) 533-8840 fax (915) 533-8843 e-mail: training@scaitc.com www.scaitc.com

BY THE ISSUANCE OF THIS CERTIFICATE TO

GLEN ASHTON

Certificate Number

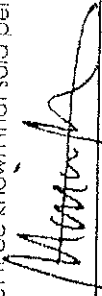
IR7061093015

Let it be known that said person has completed the requirements for asbestos accreditation as per Section 206 of TSCA TITLE II, 15 U.S.C. 20646
(as per approval by the State of Texas/United States Environmental Protection Agency: 40 CFR, Part 763, Subpart E, Appendix C)

EPA AHERA ASBESTOS INSPECTOR REFRESHER COURSE


Furthermore, let it be known that said person passed the required course examination with a score of 70% or higher.

Instructor:



Monica A. Acuna

Principal Officer:



Luis A. Acuna

Date Course Completed: 9/30/2015

Location: El Paso, Texas

Course Dates: 9/30/2015

Course Exam Date: N/A

Class ID No. IR7061093015

Registered Sanitation No.:

Accreditation Expiration Date: 9/29/2016

4 CEU As Approved by TDSHS for Sanitation Continuing Education. \$265.142 Professional Sanitation Commercial CEU Provider Lic # 1064-09001

SCAI TRAINING CENTER

headquarters: 1409 montana ave el paso, texas 79902-5617
(915) 533-8840 fax (915) 533-8843 e-mail: training@scaitc.com www.scaitc.com

BY THE ISSUANCE OF THIS CERTIFICATE TO

GLEN ASHTON

Certificate Number

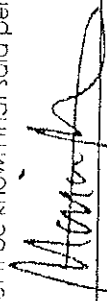
MPR7061093015

Let it be known that said person has completed the requirements for asbestos accreditation as per Section 206 of TSCA TITLE II, 15 U.S.C. 20646
(as per approval by the State of Texas/United States Environmental Protection Agency: 40 CFR, Part 763, Subpart E, Appendix C)

EPA AHERA ASBESTOS MANAGEMENT PLANNER REFRESHER COURSE

Furthermore, let it be known that said person passed the required course examination with a score of 72% or higher.

Instructor:



Monica A. Acuna

Principal Officer:



Luis M. Acuna

Date Course Completed: 9/30/2015

Location: El Paso, Texas

Course Dates: 9/30/2015

Course Exam Date: N/A

Class ID No. MPR7061093015

Registered Sanitation No.:

Accreditation Expiration Date: 9/29/2016

4 CEU As Approved by TDSHS for Sanitarian Continuing Education, §263.147, Professional Sanitation Commercial CEJ Provider Lic # 1064-090001

SCAI TRAINING CENTER

headquarters: 1409 montana ave el paso, texas 79902-5617
(915) 533-8840 fax (915) 533-8843 e-mail: training@scalitc.com www.scalitc.com

BY THE ISSUANCE OF THIS CERTIFICATE TO

GLEN ASHTON

Certificate Number

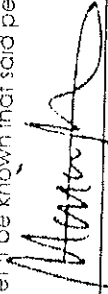
AMT70611002

Let it be known that said person has completed the requirements for asbestos accreditation as per Section 206 of TSCA TITLE II, 15 U.S.C. 20646
(as per approval by the State of Texas/United States Environmental Protection Agency: 40 CFR, Part 763, Subpart E, Appendix C)

TEXAS AIR MONITORING TECHNICIAN REFRESHER COURSE

Furthermore, let it be known that said person passed the required course examination with a score of 75% or higher.

Instructor:



Monica A. Acuna

Principal Officer:



Luis M. Acuna

Date Course Completed: 10/2/2015

Location: El Paso, Texas

Course Dates: 10/2/2015

Course Exam Date: N/A

Class ID No. AMT70611002

Registered Sanitation No.:

Accreditation Expiration Date: 10/1/2016

4 CEU As Approved by TDSHS for Sanitation Continuing Education, \$265.147; Professional Sanitation Contractor CEU Provider Lic # 1064-095001

SCAI TRAINING CENTER

headquarters: 1409 montana ave el paso, texas 79902-5617
(915) 533-8840 fax (915) 533-8843 e-mail: training@scaitc.com www.scaitc.com

BY THE ISSUANCE OF THIS CERTIFICATE TO

GLEN ASHTON

Certificate Number

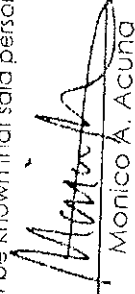
PDR7061093015

Let it be known that said person has completed the requirements for asbestos accreditation as per Section 206 of TSCA TITLE II, 15 U.S.C. 20646 (as per approval by the State of Texas/United States Environmental Protection Agency: 40 CFR, Part 763, Subpart E, Appendix G)

EPA AHERA ASBESTOS PROJECT DESIGNER REFRESHER COURSE

Furthermore, let it be known that said person passed the required course examination with a score of 70% or higher.

Instructor:


Monica A. Acuna

Principal Officer:


Luis M. Acuna

Date Course Completed: 10/1/2015

Location: El Paso, Texas

Course Dates: 10/1/2015

Course Exam Date: N/A

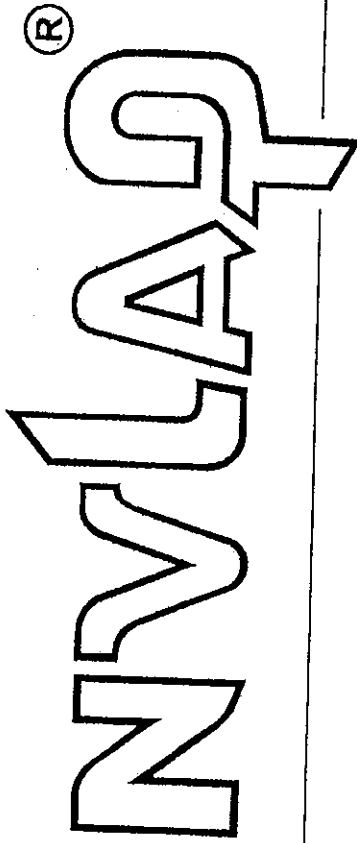
Class ID No. PDR7061093015

Registered Sanitation No.:

Accreditation Expiration Date: 9/30/2016

4 CEU As Approved by TDSHS for Sanitation Continuing Education, \$265.147: Professional Sanitation Commercial CEU Provider Lic # 1054-090001

United States Department of Commerce
National Institute of Standards and Technology



Certificate of Accreditation to ISO/IEC 17025:2005

NVLAP LAB CODE: 200633-0

Apex Precision Analytical Services, Inc.
Friendswood, TX

*is accredited by the National Voluntary Laboratory Accreditation Program for specific services,
listed on the Scope of Accreditation, for:*

BULK ASBESTOS FIBER ANALYSIS

*This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005.
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality
management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).*

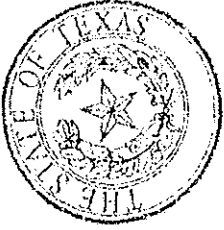
2015-04-01 through 2016-03-31

Effective dates



A handwritten signature in dark ink, appearing to read "W. D. M. L. D.", is written over the official stamp.

For the National Institute of Standards and Technology



TEXAS DEPARTMENT OF STATE HEALTH SERVICES

APEX PRECISION 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, appearing to read "David Lakey".

DAVID LAKEY, M.D.
COMMISSIONER OF HEALTH

License Number: 300312

Control Number: 95951

Expiration Date: 3/29/2016

(Void After Expiration Date)

VOID IF ALTERED NON-TRANSFERABLE

ASBESTOS GLOSSARY

Acoustical Insulation: The general application or use of asbestos for the control of sound due to its lack of reverberate surfaces.

Aggressive Air Sampling: Air sampling which takes place after final clean-up while air is being physically agitated to produce a "worst case" situation.

AHERA: The Asbestos Hazard Emergency Response Act

Air Cell: Insulation normally used on pipes and duct work that is comprised of corrugated cardboard which frequently contains asbestos combined with cellulose or refractory binders.

Air Monitoring: The process of measuring the fiber content of a specific volume of air.

Air Plenum: Any space used to convey air in a building or structure. The space above a suspended ceiling is often used as an air plenum.

Amosite: An asbestiform of the amphibole group containing approximately 50% silica and 40% iron (II) oxide, and is made up of straight, brittle fibers, light gray to pale brown in color.

Amended Water: Water to which a chemical wetting agent (surfactant) has been added to improve penetration into asbestos-containing materials that are being removed.

Approved Landfill: A site for the disposal of asbestos-containing and other hazardous waste that has been given EPA approval.

Asbestos: A generic name given to a number of naturally occurring hydrated mineral silicates that possess a unique crystalline structure, are incombustible in air, and are separable into filaments.

Asbestos Abatement: Procedures to control fiber release from asbestos containing materials in buildings, usually removal.

Asbestos Containing Material (ACM): Any material containing more than 1% by weight of asbestos of any type or mixture of types.

Asbestos Containing Waste Material: Any material which is or is suspected of being or any material contaminated with an asbestos-containing material which is to be removed from a work area for disposal.

Asbestos Fibers: Fibers with their length being greater than five microns (length to width ratio of 3:1), generated from an asbestos-containing material.

Asbestos Program Manager: A building owner or designated representative who supervises all aspects of the facility asbestos management and control program.

Asbestosis: A non-malignant, progressive, irreversible lung disease caused by the inhalation of asbestos dust and characterized by diffuse fibrosis.

Barrier: Any surface that seals off the work area to inhibit the movement of fibers.

Breathing Zone: A hemisphere forward of the shoulders with a radius of approximately 6 to 9 inches.

Bridging Encapsulate: The application of a sealant over the surface of asbestos-containing material to prevent the release of asbestos fibers.

Ceiling Concentration: The maximum allowable level of toxic material that can be present at any given point in time.

Chrysotile: The only asbestiform of the serpentine variety which contains approximately 40% each of silica and magnesium oxide. It is the most common form of asbestos used in buildings.

Contract Specifications: A set of guidelines that a contractor must follow when conducting an asbestos abatement job.

Contaminated Items: Any objects that have been exposed to airborne asbestos fibers without being sealed off or isolated.

Delamination: Separation of one layer from another.

Dispersion Staining: Used in conjunction with polarized light to identify bulk samples. Coloration added to asbestos samples for the purpose of making the samples more visible and easier to identify.

Disposal Bag: 6 mil thick leak-tight plastic bags used for transporting asbestos waste from work and to disposal site. Each is labeled as follows:

DANGER
CONTAINS ASBESTOS FIBERS
AVOID CREATING DUST
CANCER AND LUNG DISEASE HAZARD

Encapsulate: A material that surrounds or embeds asbestos fibers in an adhesive matrix, to prevent release of fibers.

Enclosure: The construction of an air-tight, impermeable, permanent barrier around asbestos-containing material to control the release of asbestos fibers into the air.

EPA: Environmental Protection Agency.

Fallout: The intermittent release of fibers which occurs as a result of weakened bonds in the material, or because of deterioration.

F/CC: Fibers per cubic centimeters of air.

Fibrosis: A condition of the lungs caused by the inhalation of excessive amounts of fibrous dust marked by the presence of scar tissue.

Fireproofing: Spray or trowel - applied fire resistant materials.

Filter: A media component used in respirators to remove solid or liquid particles from the inspired air.

Friable Asbestos Material: Material that contains more than 1.0% asbestos by weight, and that can be crumbled, pulverized, or reduced to powder by hand pressure when dry.

Glove Bag: A sack (typically constructed by 6 mil transparent polyethylene or polyvinylchloride plastic) with two inward projecting long-sleeve gloves, which are designed to enclose an object from which asbestos-containing material is to be removed.

HEPA Filter: A High Efficiency Particulate Absolute (HEPA) filter capable of trapping and retaining 99.97% of asbestos fibers greater than 0.3 microns in length.

HEPA Vacuum Cleaner: High Efficiency Particulate Air (absolute) filtered vacuum collection equipment with a filter system capable of collecting and retaining asbestos fibers. Filters should be of 99.97% efficiency for retaining fibers of 0.3 microns or larger.

High Efficiency Filter: A filter which removes from air 99.97% or more of monodisperse dioctyl phthalate (DOP) particles having a mean particle diameter of 0.3 micrometer.

Homogeneous: Similar in appearance and texture throughout.

Industrial Hygienist: A professional qualified by education, training, and experience to recognize, evaluate, and develop controls for occupational health hazards.

Lung Cancer: An uncontrolled growth of abnormal cells in the lungs which normally results in the death of the host.

Medical Surveillance: A periodic comprehensive review of a worker's health status. The required elements of an acceptable medical surveillance program are listed in Occupational Safety and Health Administration standards for asbestos.

Mesothelioma: A relative rare form of cancer which develops in the lining of the pleura or peritoneum with no known cure.

Micron: One millionth of a meter.

Miscellaneous ACM: Asbestos-containing building material on structural components, structural members or fixtures, such as floor and ceiling tile; does not include surfacing material or thermal system insulation.

Negative Pressure Respirator: A respirator in which the air pressure inside the respiratory-inlet covering is positive during exhalation in relation to the air pressure of the outside atmosphere and negative during inhalation in relation to the air pressure of the outside atmosphere.

NESHAP: National Emission Standard for Hazardous Air Pollutants - EPA Rules under the Clean Air Act.

NIOSH: The National Institute for Occupational Safety and Health, which was established by the Occupational Safety and Health Act of 1970. Primary functions of NIOSH are to conduct research, issue technical information, and test and certify respirators.

Notification: Informing employees or building occupants if asbestos is present in the building, also informing them of the hazards associated with asbestos exposure, what is being done to eliminate the problem, etc.

Operations and Maintenance Program (O & M): Specific procedures and practices developed for the interim control of asbestos containing materials in buildings until it is removed.

OSHA: The Occupational Safety and Health Administration which was created by Occupational Safety and Health Act of 1970; serves as the enforcement agency for safety and health in the work-place environment.

PEL: Permissible Exposure Limit as stated by OSHA.

Penetrating Encapsulate: Liquid material applied to asbestos-containing material to control airborne fiber release by penetrating into the material and binding its components together.

Personal Monitoring: Sampling of the asbestos fiber concentrations within the breathing zone of an employee.

Peritoneum: The thin membrane that lines the surface of the abdominal cavity.

Phase Contrast Microscopy (PCM): A microscopic technique used for the counting of fibers in air samples, but does not distinguish fiber types.

Pleura: The thin membrane surrounding the lungs, and which lines the internal surface of the chest cavity.

Polarized Light Microscopy (PLM): A microscopic technique most commonly used for analyzing bulk material for the presence of asbestos.

Prevalent Level Samples: Air samples taken under normal conditions (also known as ambient background samples).

Protection Factor: The ratio of the ambient concentration of an airborne substance to the concentration of the substance inside the respirator at the breathing zone of the wearer. The protection factor is a measure of the degree of protection provided by a respirator to the wearer.

Respirator: A device designed to protect the wearer from the inhalation of harmful atmospheres.

Respirator Program: A written program established by an employer which provides for the safe use of respirators on the job site.

Substrate: The material or existing surface located under or behind the asbestos-containing material.

Surfacing ACM: Asbestos-containing material that is sprayed-on, troweled-on or otherwise applied to surfaces, such as acoustical plaster on ceilings and fireproofing materials on structural members or other materials on surfaces for acoustical, fireproofing, or other purposes.

Surfactant: A chemical wetting agent added to water to improve penetration, thus reducing the quantity of water required for a given operation or area.

Thermal Insulation (TSI): Pipe, boiler, fitting, or tank insulation.

Transmission Electron Microscopy (TEM): A method of microscopic analysis which utilizes an electron beam that is focused onto a thin sample. As the beam penetrates (transmits) through the sample, the difference in densities produces an image on a fluorescent screen from which samples can be identified and counted.

Visible Emissions: Any emissions containing particulate asbestos material that are visually detectable without the aid of instruments. This does not include condensed uncombined water vapor.

Wet Cleaning: The process of eliminating asbestos contamination from building surfaces and objects by using cloths, mops, or other cleaning utensils which have been dampened with amended water or diluted removal encapsulate and afterwards thoroughly decontaminated or disposed of as asbestos contaminated waste.

Work Area: The area where asbestos related work or removal operations are performed which is defined and/or isolated to prevent the spread of asbestos dust, fibers or debris, and entry by unauthorized personnel.