February, 2012

Asbestos and Lead-Based Paint Inspection At Building 2478 Fort Bliss, Texas

Prepared for:

Tepa EC, LLC

Attn.: Mr. Juan Lara
6501 Boeing Dr.
El Paso, Texas 79925

Prepared by:

R&A CONSULTANTS, CORP.

Ph.: 915-779-6605 Fax: 915-779-6689
5620 Gateway Blvd. East El Paso, TX 79905

R&A CONSULTANTS, CORP.

5620 Gateway Blvd. East
El Paso, Texas 79905

Phone: (915) 779-6605
Fax: (915) 779-6689

February 9, 2012

Tepa EC, LLC
Attn.: Mr. Juan Lara
6501 Boeing Drive, Suite D-4
El Paso, Texas 79925
915-779-8400

Subject: **Report of Asbestos and Lead-Based Paint Survey**
Building 2478
Fort Bliss, Texas
R & A Project No: RA11-308

Dear Mr. Lara:

Thank you for this opportunity to provide Tepa EC, LLC (Tepa) with our professional services. R & A Consultants, Corp. (R&A) has completed an asbestos and lead survey in support of the planned renovation/demolition of Building 2478 located at Fort Bliss, Texas. R & A performed this survey on February 2, 2012.

The purpose of the asbestos survey was to identify asbestos-containing materials that may be present in the affected areas and are anticipated to be disturbed. The survey was performed to comply with regulations issued by the U.S. Environmental Protection Agency (NESHAP regulations, 40 CFR 61 (M)), and the Texas Asbestos Health Protection Rules (25 TAC § 295.31 to 295.73). These regulations generally require that, prior to any construction, renovation, or demolition, the area where the work is to be performed shall be inspected by a properly trained and licensed individual for the presence of asbestos-containing materials that may be disturbed during the work.

The asbestos/Lead-Based Paint survey was performed on January 24, 2012 by Mr. Juan R. Ayala (DSHS Asbestos Consultant No. 105450) and Mr. Oscar E. Ayala (DSHS Lead Risk Assessor No. 2070966). Based on the scope of renovations, as we understand it, bulk samples were collected from suspect materials identified on the property.

During the asbestos inspection suspect materials were identified and sampled. The suspect materials that were sampled during the survey included gray cove base, cove base mastic, gray flooring and mastic, 12x12 white floor tile and mastic, 2x2 ceiling tile, exterior window glazing, 12x12 dark gray floor tile and mastic, grey drywall and texture, white plastic wall lining, 2x4 ceiling tile, purple drywall and texture, 9x9 light brown floor tile and mastic, brown cove base and mastic, exterior brown plaster and exterior beige plaster materials.

The samples of suspect materials were sent to Crisp Analytical, LLC, an accredited and licensed asbestos laboratory (TX DSHS Laboratory License No. 300235), for analysis by polarized light microscopy (PLM) coupled with dispersion staining utilizing visual area estimation. The samples were submitted for "positive stop" analysis. Under the EPA's AHERA protocols, if any one sample from a particular homogenous area is found to contain more than one percent asbestos, analyses of further samples from that same area may be omitted because the homogeneous area is considered ACM. The remaining samples of the same material are not analyzed.

From the bulk samples collected, the following materials were reported to contain more than 1% asbestos: **floor tile black flooring mastic (2% Chrysotile).**

Flooring Materials

Asbestos-containing floor tile Black Mastic was identified in samples collected from different areas. Material is located throughout the building. These materials observed during the survey generally appeared in from good condition. The asbestos-containing flooring materials are generally considered by the EPA's NESHAP regulations as Category I non-friable materials.

Conclusion

As noted previously, the EPA generally regulates those materials found to contain more than one percent asbestos. Similarly, TDSHS and OSHA also define an asbestos-containing material as containing more than one percent asbestos. The EPA's NESHAP regulations (40 CFR 61(M)) generally require that regulated asbestos-containing materials (RACM), if present in quantities above the "threshold values" of 260 linear feet, 160 square feet, or 35 cubic feet, be properly removed prior to any demolition or renovation activity that may disturb them. RACM is defined as "(a) Friable ACM, (b) Category I non-friable ACM that has become friable, (c) Category I non-friable ACM that will be or has been subject to sanding, grinding, cutting or abrading, or (d) Category II non-friable ACM that has a high probability of becoming, or has become, crumbled, pulverized, or reduced to powder by the forces expected to act on the material in the course of demolition or renovation operations."

Within the State of Texas, enforcement of the NESHAP regulations has generally been delegated to the Texas Department of Health. Current state asbestos rules also enforced by TDSHS generally provide that any ACM within a "public building" is considered RACM (including typically non-friable materials such as mastics and sealants) in the presence of renovation activities, and should be treated as such (i.e., properly removed beforehand). Additionally, within the State of Texas, generally any disturbance of asbestos-containing materials within a public building, regardless of apparent quantity or friability, must be performed by licensed individuals under properly controlled conditions.

Based on our understanding of current state and federal regulations, there are no requirements that asbestos-containing materials be removed, except in the case of planned demolition or renovation activities. With respect to demolition and the applicable state and federal regulations, there are two key considerations: (1) less asbestos abatement may be required in that certain materials may remain in place during the demolition, and (2) for the abatement work that will be performed, there are no regulatory differences with regard to the minimum engineering controls, personnel protection, or clearance criteria.

Specifically with regard to materials that may remain in place during demolition, these generally include "Category I" materials that have not become friable and will not be subjected to "sanding, grinding, cutting or abrading", and "Category II" materials that have not become friable and are not expected to become "crumbled, pulverized, or reduced to powder by the forces expected to act on the material in the course of demolition or renovation operations". Any other asbestos-containing material, outside these narrowly defined non-friable categories, would be considered a regulated asbestos-containing material, or "RACM" by the EPA, and must be removed under properly controlled conditions prior to any planned demolition activities. As you are aware, "friable" materials are defined as those which can be crumbled, pulverized, or reduced to powder by hand pressure when dry.

Among those materials identified to be asbestos-containing at the subject property, materials which are candidates to remain in place during demolition (other than by intentional burning) include generally the floor tile, mastic and sheet vinyl flooring with associated mastic. However, given the tendency of sheet vinyl flooring to separate from the friable backing containing asbestos, we recommend it be removed under controlled conditions prior to demolition. In the case of demolition by intentional burning, all asbestos-containing materials, regardless of friability, must be properly removed beforehand. Given the relatively small percentage of overall cost represented by the affected non-friable materials, the additional requirements placed upon the demolition contractor (under OSHA) if they remain, and waste disposal considerations, it will likely be more cost-effective to simply abate those materials prior to demolition as well.

OSHA generally regards demolition and renovation work involving non-friable asbestos-containing materials as "Class II Work" under its asbestos standard for the construction industry (29 CFR 1926.1101). Such work generally requires specific worker training, exposure monitoring, and a number of minimum controls such as collecting the waste each day in "leak-tight" containers. Additionally, although not a "hazardous waste", demolition debris containing non-friable asbestos cannot be used as "clean fill" and must be disposed of in a properly permitted landfill. As such, unless the projected abatement costs are significant relative to the overall project, non-friable asbestos-containing materials are often removed prior to demolition work.

ACM INVENTORY		
Material	**Estimated Quantity:**	**NESHAP's Category**
Flooring Black Mastic	26,700 SF	Non-Friable/Category I

Again, R & A Consultants, Corp. appreciates the opportunity to serve as your consultant in this matter. If you have any questions or if we may be of further service to you, please contact us at (915) 779-6605.

Sincerely,

R & A Consultants, Corp.

Juan R. Ayala
Asbestos Consultant Lic. No. 105450

PLM REPORT

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Materials Characterization - Bulk Asbestos Analysis

Laboratory Analysis Report - Polarized Light

R & A Consultants
5620 Gateway East Blvd
El Paso, TX 79905

Attn: Oscar Ayala
Customer Project: Ft. Bliss Building 2478
Reference #: CAL1202841MA
Date: 2/7/2012

Analysis and Method

Summary of polarizing light microscopy (PLM / Stereomicroscopy bulk asbestos analysis) using the methods described in 40CFR Part 763 Appendix E to Subpart E (Interim and EPA 600 / R-93 / 116 (Improved). The sample is first viewed with the aid of stereomicroscopy. Numerous liquid slide preparations are created for analysis under the polarized microscope where identifications and quantifications are preformed. Calibrated liquid refractive oils are used as liquid mouting medium. These oils are used for identification (dispersion staining). A calibrated visual estimation is reported, should any asbestiform mineral be present. Other techniques such as acid washing are used in conjugation with refractive oils for detection of smaller quantities of asbestos. All asbestos percentages are based on calibrated visual estimation traceable to NIST standards for regulated of asbestos. Traceability to measurement and calibration is achieved by using known amounts and types of asbestos from standards where analyst and laboratory accuracy are measured. As little as 0.001% asbestos can be detected in favorable samples, while detection in unfavorable samples may approach the detection limit of 0.50% (well above the laboratory definition of trace).

Discussion

Vermiculite containing samples may have trace amounts of actinolite-tremolite, where not found be PLM should be analyzed using TEM methods and / or water separation techniques. Suspected actinolite/vermiculite presence will be indicated through the sample comment section of this report.

Fibrous talc containing samples may even contain a related asbestos fiber known as anthophyllite. Under certain conditions the same fiber may actually contain both talc and anthophyllite (a phenomenon called intergrowth). Again, TEM detection methods are recommended. CA Labs PLM report comments will denote suspected amounts of asbestiform anthophyllite with talc, where further analysis is recommended.

Some samples (floor tiles, surfacings, etc.) may contain fibers too small to be delectable by PLM analysis and should be analyzed by TEM bulk protocols.

A "trace asbestos" will be reported if the analyst observes far less than 1% asbestos. CA Labs defines "trace asbestos" as a few fibers detected by the analyst in several preparations and will indicate as such under these circumstances.

Quantification of <1% will actually be reported as <=1% (allowable variance close to 1% is high). Such results are ideal for point counting, and the technique is mandatory for friable samples (NESHAP, Nov. 1990 and clarification letter 8 May 1991) under 1% percent asbestos and the "trace asbestos". **In order to make all initial PLM reports issued from CA Labs NESHAP compliant, all <1% asbestos results (except floor tiles) will be point counted at no additional charge.**

Qualifications

CA Labs is accredited by the National Voluntary Accreditation Program (NVLAP) for selected test methods for airborne fiber analysis (TEM), and for bulk asbestos fiber analysis (PLM). CA Labs is also accredited by AIHA LAP, LLC. in the PLM asbestos field of testing for Industrial Hygiene. All analysts have a college degree in a natural science (geology, biology, or environmental science) or are recognized by a state professional board in one these disciplines .Extensive in-house training programs are used to augment education background of the analyst. The group leader of polarized light has received supplemental McCrone Research training for asbestos identification. Analysis performed at Crisp Analytical Labs, LLC 1929 Old Denton Road Carrollton, TX 75006

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235
AIHA LAP, LLC Laboratory #102929

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Overview of Project Sample Material Containing Asbestos

Customer Project: Ft. Bliss Building 2478 **CA Labs Project #:** CAL1202841MA

Sample #	Layer #	Analysts Physical Description of Subsample	Asbestos type / calibrated visual estimate percent	List of Affected Building Material Types
				black mastic
FB2478-13	*13-3*	*black mastic*	***2% Chrysotile***	
FB2478-17	*17-3*	*black mastic*	***2% Chrysotile***	
FB2478-19	*19-4*	*black mastic*	***2% Chrysotile***	
FB2478-22	*22-2*	*black mastic*	***2% Chrysotile***	
FB2478-25	*25-4*	*black mastic*	***2% Chrysotile***	

Dallas NVLAP Lab Code 200349-0 TEM/PLM EPA H20 TX 01402 TDH 30-0235
AIHA LAP, LLC Laboratory #102929

Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):

ca - carbonate
gypsum - gypsum
bi - binder
or - organic
ma - matrix
mi - mica
ve - vermiculite
ot - other
pe - perlite
qu - quartz
fg - fiberglass
mw - mineral wool
wo - wollastinite
ta - talc
sy - synthetic
ce - cellulose
br - brucite
ka - kaolin (clay)
pa - palygorskite (clay)

This report relates to the items tested. This report is not to be used by the customer to claim product certification, approval or endorsement by NVLAP, NIST, AIHA LAP, LLC, or any other agency of the federal government. This report may not be reproduced except in full without written permission from CA Labs. These results are submitted pursuant to CA Labs' current terms and sale, condition of sale, including the company's standard warranty and limitations of liability provisions and no responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, CA Labs will store the samples for a period of ninety (90) days before discarding. A shipping or handling fee may be assessed for the return of any samples.

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Polarized Light Asbestiform Materials Characterization

Customer Info: **Attn:** Oscar Ayala
R & A Consultants
5620 Gateway East Blvd
El Paso, TX 79905

Phone # 915-779-6605
Fax # 915-779-6689

Customer Project:
Ft. Bliss Building 2478
Turnaround Time:
24 hours

CA Labs Project #:
CAL1202841MA

Date: 2/7/2012
Samples Received: 2/6/12 9 am
Date Of Sampling: 2/2/2012
Purchase Order #:

Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
FB2478-01		1-1	*gray cove base*	*y*	***None detected***		100% gy,ma
		1-2	*brown and tan mastic*	*n*	***None detected***		100% gy,bi
FB2478-02		2-1	*gray cove base*	*y*	***None detected***		100% gy,ma
		2-2	*brown and tan mastic*	*n*	***None detected***		100% gy,bi
FB2478-03		3-1	*gray cove base*	*y*	***None detected***		100% gy,ma
		3-2	*brown and tan mastic*	*n*	***None detected***		100% gy,bi
FB2478-04		4-1	*white surfaced white compound*	*n*	***None detected***		100% mi,bi,ca

Dallas NVLAP Lab Code 200349-0 TEM/PLM *EPA H20 TX 01402* *TDH 30-0235*

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot -other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

C. T. Ras

Tanner Rasmussen
Analyst

QAC
Leslie Crisp, P.G.

Technical Manager
Chad Lytle

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze
6. Anthophylite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Polarized Light Asbestiform Materials Characterization

Customer Info: **Attn:** Oscar Ayala
R & A Consultants
5620 Gateway East Blvd
El Paso, TX 79905

Phone # 915-779-6605
Fax # 915-779-6689

Customer Project:
Ft. Bliss Building 2478
Turnaround Time:
24 hours

CA Labs Project #:
CAL1202841MA

Date: 2/7/2012
Samples Received: 2/6/12 9 am
Date Of Sampling: 2/2/2012
Purchase Order #:

Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
		4-2	*white compound (beneath tape)*	*y*	***None detected***		100% mi,ca
FB2478-05		*5-1*	*white surfaced white compound*	*n*	***None detected***		100% mi,bi,ca
		5-2	*white compound (beneath tape)*	*y*	***None detected***		100% mi,ca
FB2478-06		*6-1*	*white surfaced white compound*	*n*	***None detected***		100% mi,bi,ca
		6-2	*white compound (beneath tape)*	*y*	***None detected***		100% mi,ca
FB2478-07		*7-1*	*white surfacing*	*y*	***None detected***		100% qu,bi
		7-2	*tan ceiling tile*	*y*	***None detected***	38% ce 32% fg	30% qu,pe,ca

Dallas NVLAP Lab Code 200349-0 TEM/PLM *EPA H20 TX 01402* *TDH 30-0235*

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot -other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

Tanner Rasmussen
Analyst

QAC
Leslie Crisp, P.G.

Technical Manager
Chad Lytle

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze
6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Polarized Light Asbestiform Materials Characterization

Customer Info: **Attn:** Oscar Ayala
R & A Consultants
5620 Gateway East Blvd
El Paso, TX 79905

Phone # 915-779-6605
Fax # 915-779-6689

Customer Project:
Ft. Bliss Building 2478
Turnaround Time:
24 hours

CA Labs Project #:
CAL1202841MA

Date: 2/7/2012
Samples Received: 2/6/12 9 am
Date Of Sampling: 2/2/2012
Purchase Order #:

Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
FB2478-08		*8-1*	*white surfacing*	*y*	***None detected***		100% qu,bi
		8-2	*tan ceiling tile*	*y*	***None detected***	37% ce 33% fg	30% qu,pe,ca
FB2478-09		*9-1*	*white surfacing*	*y*	***None detected***		100% qu,bi
		9-2	*tan ceiling tile*	*y*	***None detected***	37% ce 32% fg	31% qu,pe,ca
FB2478-10		*10-1*	*gray vinyl flooring*	*y*	***None detected***		100% qu,gy,ma
		10-2	*tan mastic*	*y*	***None detected***		100% gy,bi
FB2478-11		*11-1*	*gray vinyl flooring*	*y*	***None detected***		100% qu,gy,ma

Dallas NVLAP Lab Code 200349-0 TEM/PLM *EPA H20 TX 01402* *TDH 30-0235*

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot -other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

C. T. Ras

Tanner Rasmussen
Analyst

QAC
Leslie Crisp, P.G.

Technical Manager
Chad Lytle

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze
6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Polarized Light Asbestiform Materials Characterization

Customer Info: **Attn:** Oscar Ayala
R & A Consultants
5620 Gateway East Blvd
El Paso, TX 79905

Phone # 915-779-6605
Fax # 915-779-6689

Customer Project:
Ft. Bliss Building 2478
Turnaround Time:
24 hours

CA Labs Project #:
CAL1202841MA

Date: 2/7/2012
Samples Received: 2/6/12 9 am
Date Of Sampling: 2/2/2012
Purchase Order #:

Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
		11-2	*tan mastic*	*y*	***None detected***		100% gy,bi
FB2478-12		*12-1*	*gray vinyl flooring*	*y*	***None detected***		100% qu,gy,ma
		12-2	*tan mastic*	*y*	***None detected***		100% gy,bi
FB2478-13		*13-1*	*tan mastic*	*y*	***None detected***		100% gy,bi
		13-2	*tan floor tile*	*y*	***None detected***		100% qu,ca
		13-3	*black mastic*	*y*	***2% Chrysotile***		98% gy,bi
FB2478-14		*14-1*	*tan mastic*	*y*	***None detected***		100% gy,bi

Dallas NVLAP Lab Code 200349-0 TEM/PLM *EPA H20 TX 01402* *TDH 30-0235*

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot -other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

C.T. Ras

Tanner Rasmussen
Analyst

QAC
Leslie Crisp, P.G.

Technical Manager
Chad Lytle

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze
6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Polarized Light Asbestiform Materials Characterization

Customer Info: **Attn:** Oscar Ayala
R & A Consultants
5620 Gateway East Blvd
El Paso, TX 79905

Phone # 915-779-6605
Fax # 915-779-6689

Customer Project:
Ft. Bliss Building 2478
Turnaround Time:
24 hours

CA Labs Project #:
CAL1202841MA

Date: 2/7/2012
Samples Received: 2/6/12 9 am
Date Of Sampling: 2/2/2012
Purchase Order #:

Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
		14-2	*tan floor tile*	*y*	***None detected***		100% qu,ca
		14-3	*black mastic*		*positive stop*		
FB2478-15		*15-1*	*tan mastic*	*y*	***None detected***		100% gy,bi
		15-2	*white floor tile*	*y*	***None detected***		100% qu,ca
		15-3	*black mastic*		*positive stop*		
FB2478-16		*16-1*	*white paneling*	*y*	***None detected***	8% fg	92% qu,ma
		16-2	*tan mastic*	*y*	***None detected***		100% gy,bi

Dallas NVLAP Lab Code 200349-0 TEM/PLM *EPA H20 TX 01402* *TDH 30-0235*

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot -other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

C.T. Ras

Tanner Rasmussen
Analyst

QAC
Leslie Crisp, P.G.

Technical Manager
Chad Lytle

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze
6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Polarized Light Asbestiform Materials Characterization

Customer Info: **Attn:** Oscar Ayala
R & A Consultants
5620 Gateway East Blvd
El Paso, TX 79905

Phone # 915-779-6605
Fax # 915-779-6689

Customer Project:
Ft. Bliss Building 2478
Turnaround Time:
24 hours

CA Labs Project #:
CAL1202841MA

Date: 2/7/2012
Samples Received: 2/6/12 9 am
Date Of Sampling: 2/2/2012
Purchase Order #:

Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
		16-3	*white compound*	*y*	***None detected***		100% mi,ca
FB2478-17		*17-1*	*white paneling*	*y*	***None detected***	9% fg	91% qu,ma
		17-2	*tan mastic*	*y*	***None detected***		100% gy,bi
		17-3	*black mastic*	*y*	***2% Chrysotile***		98% gy,bi
FB2478-18		*18-1*	*white paneling*	*y*	***None detected***	9% fg	91% qu,ma
		18-2	*tan mastic*	*y*	***None detected***		100% gy,bi
		18-3	*white compound*	*y*	***None detected***		100% mi,ca

Dallas NVLAP Lab Code 200349-0 TEM/PLM *EPA H20 TX 01402* *TDH 30-0235*

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot -other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

C. T. Ras

Tanner Rasmussen
Analyst

QAC
Leslie Crisp, P.G.

Technical Manager
Chad Lytle

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze
6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Polarized Light Asbestiform Materials Characterization

Customer Info: **Attn:** Oscar Ayala
R & A Consultants
5620 Gateway East Blvd
El Paso, TX 79905

Phone # 915-779-6605
Fax # 915-779-6689

Customer Project:
Ft. Bliss Building 2478
Turnaround Time:
24 hours

CA Labs Project #:
CAL1202841MA

Date: 2/7/2012
Samples Received: 2/6/12 9 am
Date Of Sampling: 2/2/2012
Purchase Order #:

Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
FB2478-19		*19-1*	*gray floor tile*	*y*	***None detected***		100% qu,ca
		19-2	*tan mastic*	*y*	***None detected***		100% gy,bi
		19-3	*tan floor tile*	*y*	***None detected***		100% qu,ca
		19-4	*black mastic*	*y*	***2% Chrysotile***		98% gy,bi
FB2478-20		*20-1*	*gray floor tile*	*y*	***None detected***		100% qu,ca
		20-2	*tan mastic*	*y*	***None detected***		100% gy,bi
		20-3	*tan floor tile*	*y*	***None detected***		100% qu,ca

Dallas NVLAP Lab Code 200349-0 TEM/PLM *EPA H20 TX 01402* *TDH 30-0235*

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot -other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

C.T. Ras

Tanner Rasmussen
Analyst

QAC
Leslie Crisp, P.G.

Technical Manager
Chad Lytle

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze
6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Polarized Light Asbestiform Materials Characterization

Customer Info: **Attn:** Oscar Ayala
R & A Consultants
5620 Gateway East Blvd
El Paso, TX 79905

Phone # 915-779-6605
Fax # 915-779-6689

Customer Project:
Ft. Bliss Building 2478
Turnaround Time:
24 hours

CA Labs Project #:
CAL1202841MA

Date: 2/7/2012
Samples Received: 2/6/12 9 am
Date Of Sampling: 2/2/2012
Purchase Order #:

Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
		20-4	*black mastic*		*positive stop*		
FB2478-21		*21-1*	*gray floor tile*	*y*	***None detected***		100% qu,ca
		21-2	*tan mastic*	*y*	***None detected***		100% gy,bi
		21-3	*tan floor tile*	*y*	***None detected***		100% qu,ca
		21-4	*black mastic*		*positive stop*		
FB2478-22		*22-1*	*tan floor tile*	*y*	***None detected***		100% qu,ca
		22-2	*black mastic*	*y*	***2% Chrysotile***		98% gy,bi

Dallas NVLAP Lab Code 200349-0 TEM/PLM *EPA H20 TX 01402* *TDH 30-0235*

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot -other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

C.T. Ras

Tanner Rasmussen
Analyst

QAC
Leslie Crisp, P.G.

Technical Manager
Chad Lytle

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze
6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separabon on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Polarized Light Asbestiform Materials Characterization

Customer Info: **Attn:** Oscar Ayala
R & A Consultants
5620 Gateway East Blvd
El Paso, TX 79905

Phone # 915-779-6605
Fax # 915-779-6689

Customer Project:
Ft. Bliss Building 2478
Turnaround Time:
24 hours

CA Labs Project #:
CAL1202841MA

Date: 2/7/2012
Samples Received: 2/6/12 9 am
Date Of Sampling: 2/2/2012
Purchase Order #:

Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
FB2478-23		*23-1*	*tan floor tile*	*y*	***None detected***		100% qu,ca
		23-2	*black mastic*		*positive stop*		
FB2478-24		*24-1*	*tan floor tile*	*y*	***None detected***		100% qu,ca
		24-2	*black mastic*		*positive stop*		
FB2478-25		*25-1*	*off-white floor tile*	*y*	***None detected***		100% qu,ca
		25-2	*tan mastic*	*y*	***None detected***		100% gy,bi
		25-3	*tan floor tile*	*y*	***None detected***		100% qu,ca

Dallas NVLAP Lab Code 200349-0 TEM/PLM *EPA H20 TX 01402* *TDH 30-0235*

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot -other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

C. T. Ras

Tanner Rasmussen
Analyst

QAC
Leslie Crisp, P.G.

Technical Manager
Chad Lytle

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze
6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Polarized Light Asbestiform Materials Characterization

Customer Info: **Attn:** Oscar Ayala
R & A Consultants
5620 Gateway East Blvd
El Paso, TX 79905

Phone # 915-779-6605
Fax # 915-779-6689

Customer Project:
Ft. Bliss Building 2478
Turnaround Time:
24 hours

CA Labs Project #:
CAL1202841MA

Date: 2/7/2012
Samples Received: 2/6/12 9 am
Date Of Sampling: 2/2/2012
Purchase Order #:

Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
		25-4	*black mastic*	*y*	***2% Chrysotile***		98% gy,bi
FB2478-26		*26-1*	*off-white floor tile*	*y*	***None detected***		100% qu,ca
		26-2	*tan mastic*	*y*	***None detected***		100% gy,bi
		26-3	*tan floor tile*	*y*	***None detected***		100% qu,ca
		26-4	*black mastic*		*positive stop*		
FB2478-27		*27-1*	*off-white floor tile*	*y*	***None detected***		100% qu,ca
		27-2	*tan mastic*	*y*	***None detected***		100% gy,bi

Dallas NVLAP Lab Code 200349-0 TEM/PLM *EPA H20 TX 01402* *TDH 30-0235*

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot -other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

C.T. Ras

Tanner Rasmussen
Analyst

QAC
Leslie Crisp, P.G.

Technical Manager
Chad Lytle

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze
6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

CA Labs
Dedicated to Quality

Crisp Analytical, L.L.C.
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

Polarized Light Asbestiform Materials Characterization

Customer Info: **Attn:** Oscar Ayala
R & A Consultants
5620 Gateway East Blvd
El Paso, TX 79905

Phone # 915-779-6605
Fax # 915-779-6689

Customer Project:
Ft. Bliss Building 2478
Turnaround Time:
24 hours

CA Labs Project #:
CAL1202841MA

Date: 2/7/2012
Samples Received: 2/6/12 9 am
Date Of Sampling: 2/2/2012
Purchase Order #:

Sample #	Comment	Layer #	Analysts Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
		27-3	*tan floor tile*	*y*	***None detected***		100% qu,ca
		27-4	*black mastic*		*positive stop*		
FB2478-28		*28-1*	*brown and gray plaster*	*n*	***None detected***		100% qu,bi,ca
FB2478-29		*29-1*	*tan plaster*	*y*	***None detected***		100% qu,ca
FB2478-30		*30-1*	*black sealant*	*y*	***None detected***		100% qu,bi

Dallas NVLAP Lab Code 200349-0 TEM/PLM *EPA H20 TX 01402* *TDH 30-0235*

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

ca - carbonate	mi - mica	fg - fiberglass	ce - cellulose
gypsum - gypsum	ve - vermiculite	mw - mineral wool	br - brucite
bi - binder	ot -other	wo - wollastinite	ka - kaolin (clay)
or - organic	pe - perlite	ta - talc	pa - palygorskite (clay)
ma - matrix	qu - quartz	sy - synthetic	

Approved Signatories:

C.T. Ras

Tanner Rasmussen
Analyst

QAC
Leslie Crisp, P.G.

Technical Manager
Chad Lytle

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze
6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested

CA Labs

Crisp Analytical Laboratories, L.L.C
1929 Old Denton Rd.
Carrollton, TX 75006

Phone: 972-242-2754
Fax: 972-242-2798
Mobile: 469-222-6967

Chain of Custody

Client Name: R&A Consultants, Corp
Client Address: 5220 Gateway Blvd E
El Paso, TX 79905

Phone number: 915-779-6685
Fax number: 915-779-6689
Email: racms.oeayala@sbcglobal.net

Contact:

CA Labs job # CAL 1202841

Billing Address: (if different)

P.O. # :
Project Name: Ft. Bliss Building 2478
Project Number:

Reports Results VIA: EMAIL FAX VERBAL

Total # Samples Submitted:	Total # Samples to be Analyzed:	Material Matrix: Air / Bulk / Water

Asbestos: *please call ahead for availability of all rush and/or after hours samples.*

TEM	TA Time	PLM	TA Time	Optical / IAQ	TA Time
Circle analysis and TA time		*Circle analysis and TA time*	*2 hour*	PCM: NIOSH 7400	Note TAT
AHERA	*4 hour*	Improved	4 hour	Allergen Particle:	24 hour
EPA Level II	8 hour	Interim	8 hour	tape/bulk/swab	2 days
Drinking Water	16 hour		16 hour	Cyclex-d cassettes	3 days
Wipe	24 hour	AHERA	(24 hour)	Air-o-cell cassettes	5-10 days
Micro-vac	2 days		2 days	Anderson cultures	Specify
NIOSH 7402	3 days	Point Count -	3 days	Bulk/swab cultures	Mold or
Chatfield Bulk	5 days	(NESHAPS)	5 days	Bacteria cultures	bacteria

Please indicate appropriate turn around time. (minimum turnaround - 24 hrs for Lead TCLP and water)

Lead: *Circle analysis and TA time*

Matrix:	Paint Chips	Soil	Air	Wipes	Wastewater	
TA Time:	*8 hour*	1 day	2 days	3 days	5 days	6-10 days

Sample Information:

Sample Number:	Sample Location:	Sample Date/Time:	~~Sample Volume (L)~~
FB2478-01,02,03	Gray Cove Base & Mastic	02/02/2012	Positive
" 04,05,06	Drywall & texture	"	" "
" 07,08,09	2x4 Ceiling tile	"	" "
" 10,11,12	Gray Matting, flooring & Mastic	"	" "
" 13,14,15	Beige FT & Mastic (under matting)	"	" "

Custody Information:

Samples relinquished: 02/03/2012
Signature / Date / Time

Samples received: MA 2/6/12 9am
Signature / Date / Time

Samples relinquished:
Signature / Date / Time

Samples received:
Signature / Date / Time

Client Name: R & A Consultants

Client Address:

phone number:

fax number:

Send Reports to:

CA Labs job # CAL 1202 841

Billing Address:

(if different)

Project Name:

Project Number:

Sample Number:	Sample Location:	~~Sample Date/Time:~~	~~Sample Volume (L)~~
FT24A-16,17,18	White Wall Lining	02/02/2012	Stop Positive
-19,20,21	Gray FT & Mastic	"	"
-22,23,24	TAN FT & MASTIC	"	"
-25,26,27	12x12 White FT & Yellow Mastic Bottom TAN FT & BLACK MASTIC	"	"
28 -~~29,30~~	PLASTER (EXTERIOR) BROWN	"	"
29 -~~30,31~~	BOISE PLASTER (EXTERIOR	"	
30	Exterior window glazing	"	

For internal use:

Any initial changes regarding project (indicate yes by checking line)_____

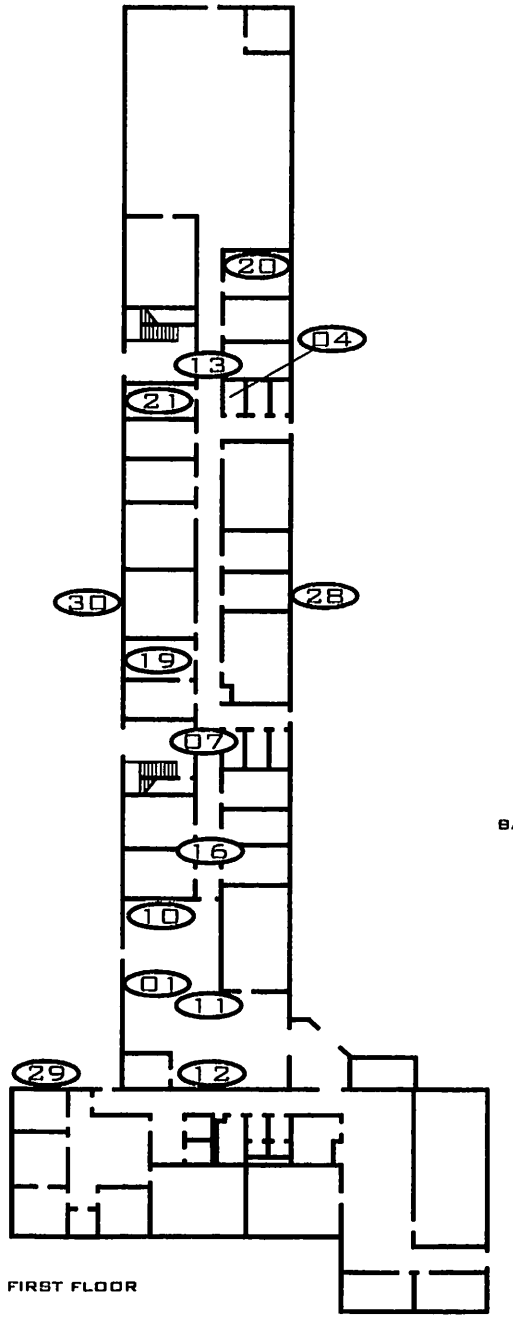
MA 2/6/12 9am

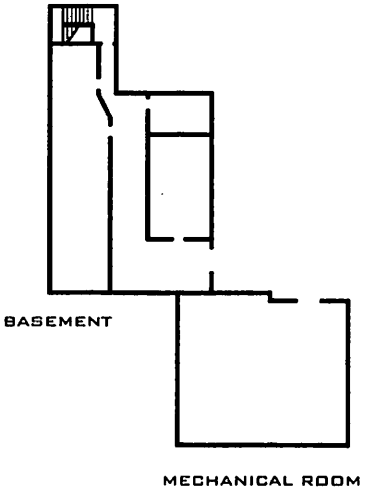
ACM PICTURES

BUILDING 2478

ACM BLACK FLOORING MASTIC

ACM DRAWINGS





BUILDING 2478

R&A CONSULTANTS, CORP.
5020 GATEWAY EAST
EL PASO, TX 79905
PHONE: (915) 779-6505
FAX: (915) 779-6589

BUILDING 2478
FORT BLISS, TEXAS

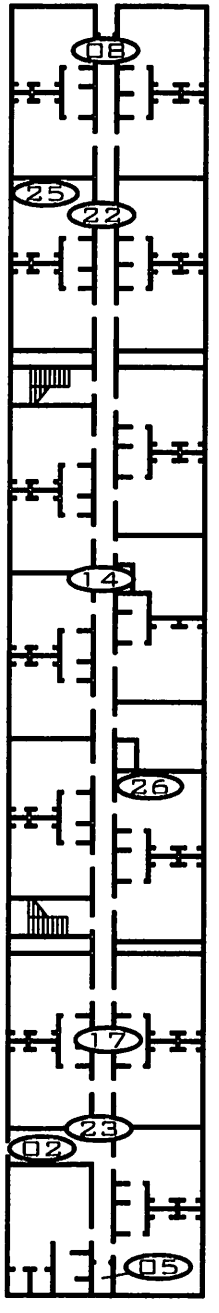
ASBESTOS INSPECTION

LOCATION
FIRST FLOOR, BASEMENT, & MECHANICAL ROOM

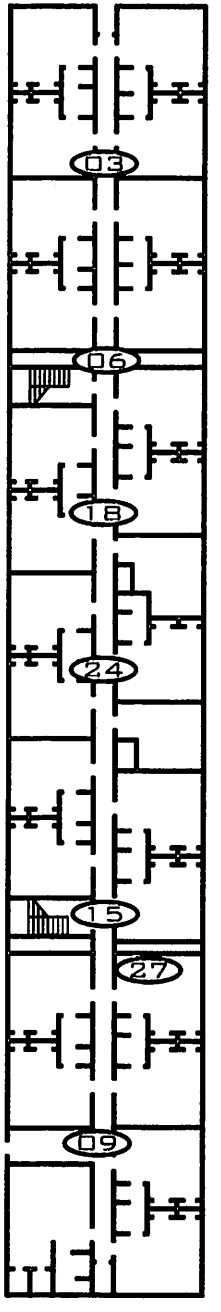
LEGEND
SAMPLE LOCATIONS
(#) SAMPLE LOCATION NUMBER

REVISIONS
1
2

INSPECTED BY: O. E. AYALA
DRAWN BY: J. E. AYALA
DATE: 02/02/2012
PROJECT No.:
SHEET #:



SECOND FLOOR



THIRD FLOOR

BUILDING 2478

R&A CONSULTANTS, CORP.
5020 GATEWAY EAST
EL PASO, TX 79905
PHONE: (915) 779-6005
FAX: (915) 779-6689

BUILDING 2478
FORT BLISS, TEXAS

ASBESTOS INSPECTION

LOCATION

SECOND & THIRD FLOORS

LEGEND

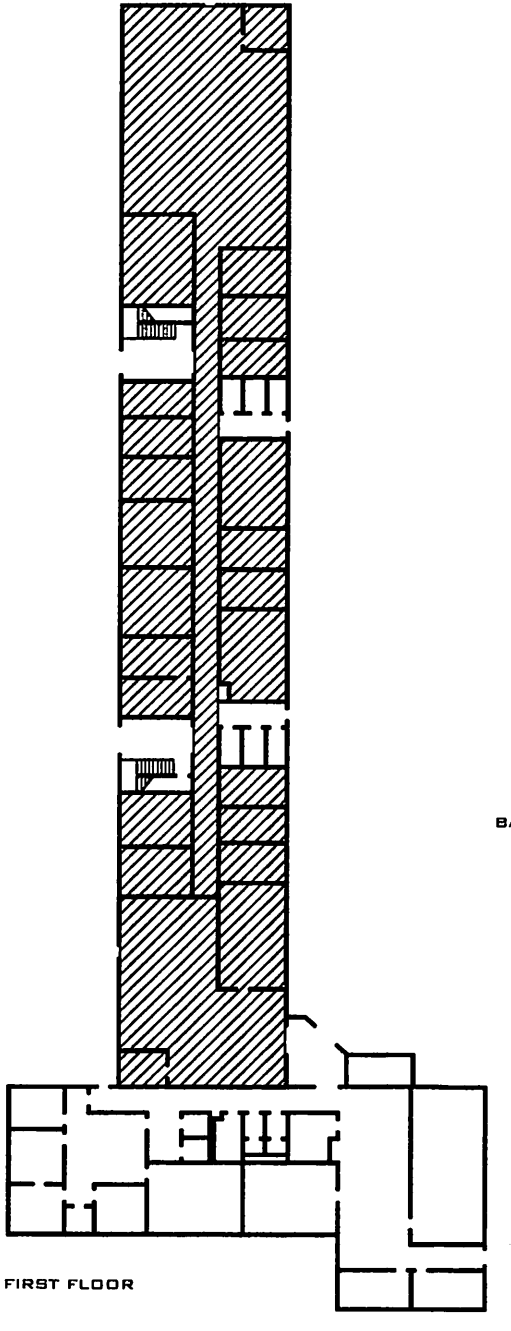
SAMPLE LOCATIONS

(#) SAMPLE LOCATION NUMBER

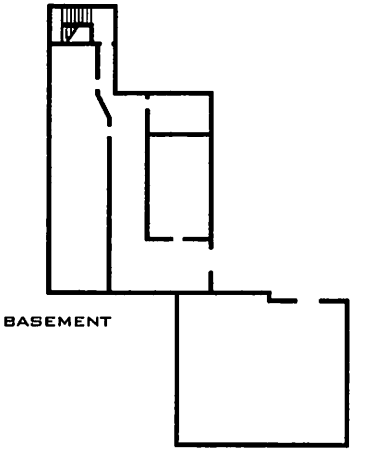
REVISIONS

1	
2	

INSPECTED BY:	D. E. AYALA
DRAWN BY:	J. E. AYALA
DATE:	02/02/2012
PROJECT No.:	
SHEET #:	



FIRST FLOOR



BASEMENT

MECHANICAL ROOM

BUILDING 2478

R&A CONSULTANTS, CORP.
5020 GATEWAY EAST
EL PASO, TX 79905
PHONE: (915) 779-6605
FAX: (915) 779-6689

BUILDING 2478
FORT BLISS, TEXAS

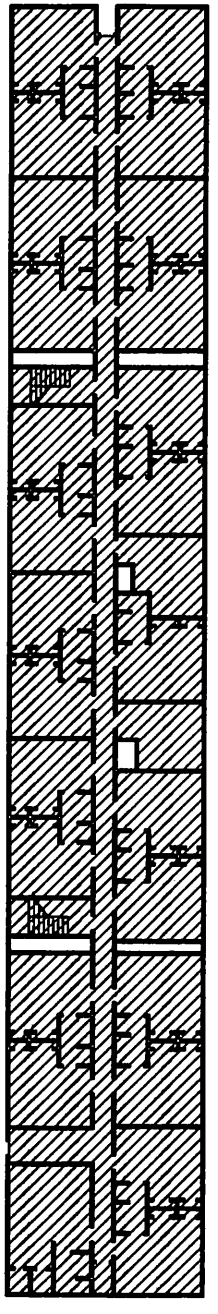
ASBESTOS INSPECTION

LOCATION
FIRST FLOOR, BASEMENT, & MECHANICAL ROOM

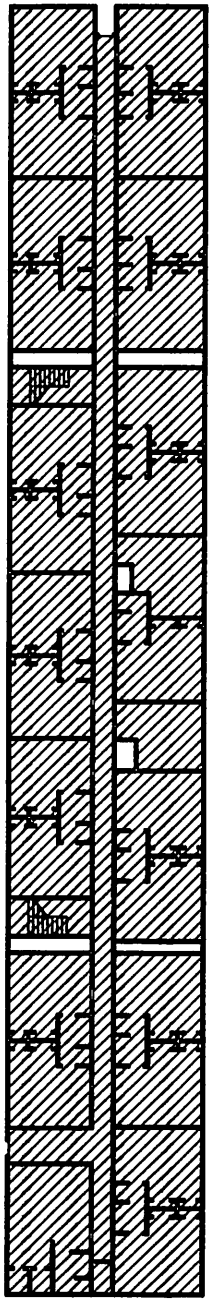
LEGEND
ACM DRAWING
BLACK MASTIC

REVISIONS
1
2

INSPECTED BY: O. E. AYALA
DRAWN BY: J. E. AYALA
DATE: 02/02/2012
PROJECT No.:
SHEET #:
M-1



SECOND FLOOR



THIRD FLOOR

BUILDING 2478

R&A CONSULTANTS, CORP.
5620 GATEWAY EAST
EL PASO, TX 79905
PHONE: (915) 779-6605
FAX: (915) 779-6689

BUILDING 2478
FORT BLISS, TEXAS

ASBESTOS INSPECTION

LOCATION

SECOND & THIRD FLOORS

LEGEND

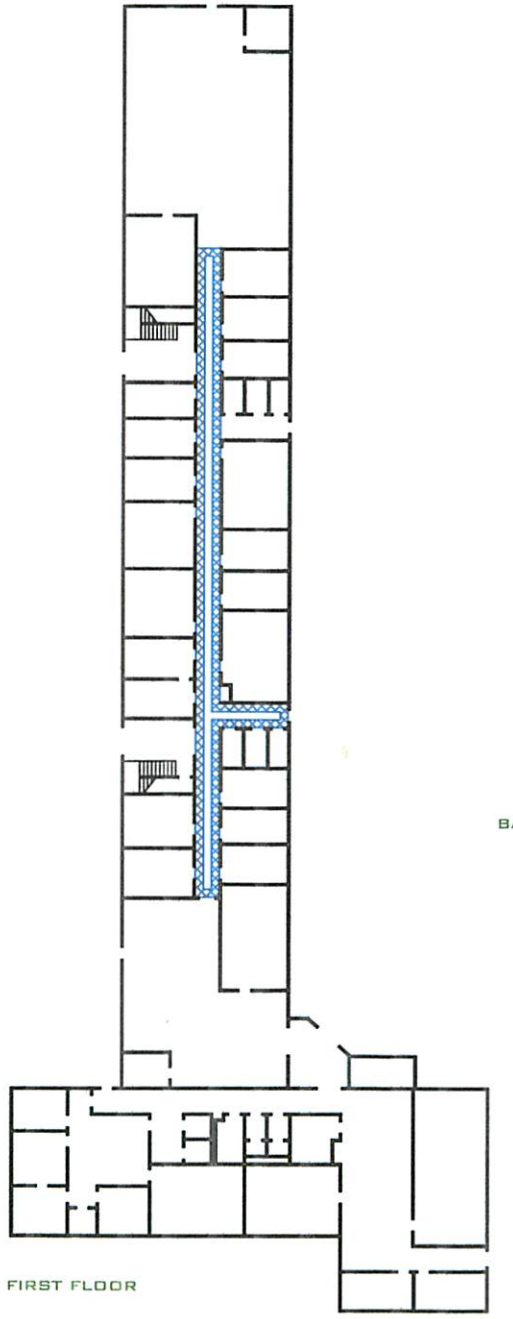
ACM DRAWING

BLACK MASTIC

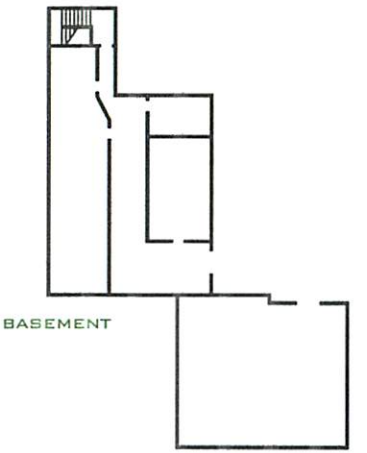
REVISIONS

1
2

INSPECTED BY: O. E. AYALA
DRAWN BY: J. E. AYALA
DATE: 02/02/2012
PROJECT No.:
SHEET #: M-2



FIRST FLOOR



BASEMENT

MECHANICAL ROOM

BUILDING 2478

R&A CONSULTANTS, CORP.
5620 GATEWAY EAST
EL PASO, TX 79905
PHONE: (915) 779-6605
FAX: (915) 779-6689

BUILDING 2478
FORT BLISS, TEXAS

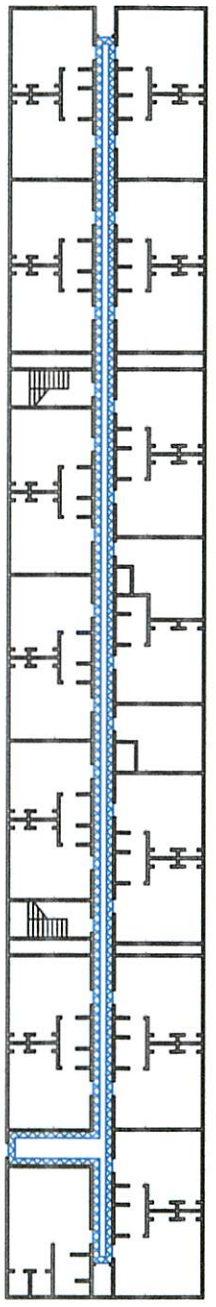
ASBESTOS INSPECTION

LOCATION
FIRST FLOOR, BASEMENT, & MECHANICAL ROOM

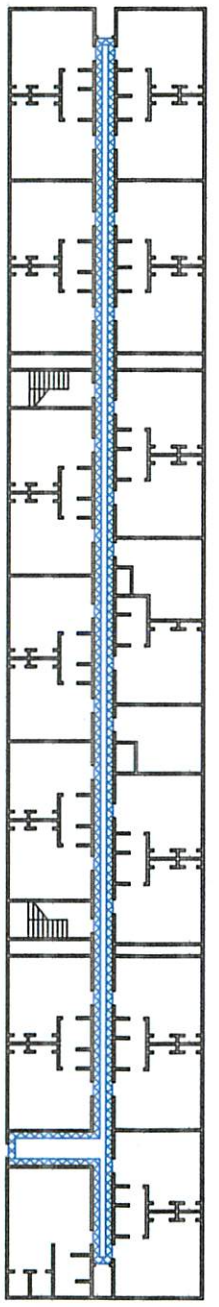
LEGEND
ACM DRAWING
WHITE WALL LINING

REVISIONS
△
△

INSPECTED BY: D. E. AYALA
DRAWN BY: J. E. AYALA
DATE: 02/02/2012
PROJECT No.:
SHEET #:
M-3



SECOND FLOOR



THIRD FLOOR

BUILDING 2478

R&A CONSULTANTS, CORP.
5620 GATEWAY EAST
EL PASO, TX 79905
PHONE: (915) 779-6605
FAX: (915) 779-6689

BUILDING 2478
FORT BLISS, TEXAS

ASBESTOS INSPECTION

LOCATION
SECOND & THIRD FLOORS

LEGEND
ACM
DRAWING
WHITE WALL LINING

REVISIONS
△
△

INSPECTED BY: O. E. AYALA
DRAWN BY: J. E. AYALA
DATE: 02/02/2012
PROJECT No.:
SHEET #:
M-4

CERTIFICATIONS

TEXAS DEPARTMENT OF STATE HEALTH SERVICES

R & A CONSULTANTS CORP

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.

DAVID LAKEY, M.D.
COMMISSIONER OF HEALTH

License Number: 100278

Expiration Date: 7/14/2012

Control Number: 96333

(Void After Expiration Date)

VOID IF ALTERED NON-TRANSFERABLE

TEXAS DEPARTMENT OF STATE HEALTH SERVICES

CRISP ANALYTICAL LAB LLC

is certified to perform as a

Asbestos Laboratory
PCM, PLM, TEM

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.

DAVID LAKEY, M.D.
COMMISSIONER OF HEALTH

License Number: 300235

Expiration Date: 11/2/2013

Control Number: 95749

(Void After Expiration Date)

VOID IF ALTERED NON-TRANSFERABLE

LEAD-BASED PAINT INSPECTION

REPORT

For:

Building 2478

Fort Bliss, Texas

Lead-Based Paint Inspection
At:
Building 2478
Fort Bliss, Texas

R&A Consultants, Corp. (R&A) has conducted a Lead-Based inspection at the above mentioned area located in Fort Bliss, Texas.

Summary:

The purpose of our Lead-Based Paint (LBP) sampling was to determine the presence or absence of LBP by performing an investigation of selected areas of building. A total of forty-two (42) XRF readings were taken.

Lead-Based Paint means paint or other surface coatings that contain lead equal or in excess of 1.0 milligrams per square centimeter (mg/cm^2) or more than 0.5% by weight or 5,000 parts per million (ppm) by weight as established by EPA and HUD regulations. **Results indicate that one (1) of the forty-two (42) XRF readings tested equal to or greater than the EPA established limit of 1.0 mg/cm^2.**

Description of Areas Tested:

The building components consisted of gypsum wallboard ceiling, concrete masonry unit (CMU) walls, metal doors, metal door frames, concrete floors, wood door, wood door frame, concrete wall, metal beam and metal door frames.

It was observed that the units have been repainted over the years. The physical conditions of the paints were in fair condition at the time of the inspection. An inventory of painted surfaces in each room equivalent within each unit as XRF tests proceeded. See the "LBP Sampling Data Sheet"

Calibration of the XRF Instrument:

Before proceeding with the investigation of painted surfaces, the XRF instrument performed a self-calibration check in accordance with the manufacturer's quality control procedures. After the warm up period, the inspector took three calibration check readings on a 1.0 mg/cm^2 lead film provided by the manufacturer. The difference among the first calibration check average and the 1.0 mg/cm^2 lead film was not greater than the 2.0 mg/cm^2 calibration check tolerance limit obtained from the XRF Performance Characteristic Sheet (PCS). Calibration was performed every two hours, when applicable, as recommended by the manufacturer. In accordance with the XRF PSC, the XRF instrument in use did not require correction for substrate bias for any substrate encountered. No XRF readings above the upper limits of the inconclusive range were encountered. Because there were no inconclusive results, no paint chip samples were required to

collect. At the end of the work shift, the inspector took a final set of two calibration check readings using the same procedure as for the initial calibration check.

Results that tested positive for Lead at or above 1.0 mg/cm^2:

This report includes a lead-based testing performed following the EPA Lead Reduction Rules (40-CFR Past 745). Results are as follows:

FORT BLISS / BUILDING 2478

Sample I.D.	Substrate	Component	Color	Test Location	XRF Result (mg/cm^2)
FB2478-26	Metal	Ladder	Gray	Center Stairway 3rd Floor	3.1

Lead-based paint was detected in throughout building. Care shall be taken for surfaces that contain levels of lead below the regulatory limit of 1.0 mg/cm^2, which could create lead dust or lead-contaminated soil hazards if the paint is turned into dust by abrasion, scraping or sanding.

Conclusion:

R&A Consultants Corp. has performed a LBP inspection at Building 2478in Fort Bliss, TX in accordance with the EPA Lead Reduction Rules (40 CFR Part 745). The attached drawings indicate the locations where samples were taken.

Again, R & A Consultants, Corp. appreciates the opportunity to serve as your consultant in this matter. If you have any questions or if we may be of further service to you, please contact us at (915) 779-6605.

Sincerely,
R & A Consultants, Corp.

Oscar E. Ayala
Lead Inspector/Risk Assessor

APPENDIX A

XRF LEAD RESULTS

5620 Gateway East Blvd.
El Paso, Texas 79905

R&A CONSULTANTS, CORP.

Phone: (915) 779-6605
Fax: (915) 779-6689

LEAD BASED PAINT SAMPLING SHEET

Date: 1-2-12

Address: Fort Bliss, TX - Bldg. 2478 Room/Description: Throughout

SAMPLE ID.	SUBSTRATE	COMPONENT	COLOR	LOCATION	XRF READING	CLASSIFICATION	CONDITION
FB 2478 .01	SR / P / W / M / V / CT / B / C / CMU	ceiling	white	ceiling above susp. ceiling	.01 mg/cm²	POS / NEG	FAIR / POOR
.02	SR / P / W / M / V / CT / B / C / CMU	wall	white	S. wall Day Room	0 mg/cm²	POS / NEG	FAIR / POOR
.03	SR / P / W / M / V / CT / B / C / CMU	Door frame	gray	W. wall Day Room	0 mg/cm²	POS / NEG	FAIR / POOR
.04	SR / P / W / M / V / CT / B / C / CMU	Door	gray	W. wall Day Room	0 mg/cm²	POS / NEG	FAIR / POOR
.05	SR / P / W / M / V / CT / B / C / CMU	Door frame	gray	Room 131	0 mg/cm²	POS / NEG	FAIR / POOR
.06	SR / P / W / M / V / CT / B / C / CMU	wall	white	W. wall 1st floor	0 mg/cm²	POS / NEG	FAIR / POOR
.07	SR / P / W / M / V / CT / B / C / CMU	wall	gray	" "	0 mg/cm²	POS / NEG	FAIR / POOR
.08	SR / P / W / M / V / CT / B / C / CMU	Door	gray	Room 104	0 mg/cm²	POS / NEG	FAIR / POOR
.09	SR / P / W / M / V / CT / B / C / CMU	wall	white	Room 128 N. wall	0 mg/cm²	POS / NEG	FAIR / POOR
.10	SR / P / W / M / V / CT / B / C / CMU	wall	white	W. wall Room 128	0 mg/cm²	POS / NEG	FAIR / POOR

Inspector: Oscar Ayala Signature:

XRF SERIAL NO. 10657

Address: Fort Bliss, TX — Bldg. 2478

Page: 2

SAMPLE ID.	SUBSTRATE	COMPONENT	COLOR	LOCATION	XRF READING	CLASSIFICATION	CONDITION
FB 2478 .11	SR / P / W / M / V / CT / B / C / CMU	Door frame	gray	Room 128	0 mg/cm²	POS / NEG	FAIR / POOR
.12	SR / P / W / M / V / CT / B / C / CMU	Door frame	gray	stairway 2nd floor	0 mg/cm²	POS / NEG	FAIR / POOR
.13	SR / P / W / M / V / CT / B / C / CMU	Door	gray	" "	0 mg/cm²	POS / NEG	FAIR / POOR
.14	SR / P / W / M / V / CT / B / C / CMU	Step	gray	Stairway center	.01 mg/cm²	POS / NEG	FAIR / POOR
.15	SR / P / W / M / V / CT / B / C / CMU	Hand rail	gray	" "	.18 mg/cm²	POS / NEG	FAIR / POOR
.16	SR / P / W / M / V / CT / B / C / CMU	wall	white	W. wall Hallway 2nd floor	0 mg/cm²	POS / NEG	FAIR / POOR
.17	SR / P / W / M / V / CT / B / C / CMU	Door frame	gray	Door + Frame Room 207	.01 mg/cm²	POS / NEG	FAIR / POOR
.18	SR / P / W / M / V / CT / B / C / CMU	DOOr	varnish	Door Room 207	.01 mg/cm²	POS / NEG	FAIR / POOR
.19	SR / P / W / M / V / CT / B / C / CMU	wall	white	N. wall Room 222	.05 mg/cm²	POS / NEG	FAIR / POOR
.20	SR / P / W / M / V / CT / B / C / CMU	Door frame	gray	" "	.03 mg/cm²	POS / NEG	FAIR / POOR
.21	SR / P / W / M / V / CT / B / C / CMU	DOOr	varnish	N. wall closet Door Rm. 222	.01 mg/cm²	POS / NEG	FAIR / POOR
.22	SR / P / W / M / V / CT / B / C / CMU	wall	white gray	E. wall RR Room 222	.05 mg/cm²	POS / NEG	FAIR / POOR
.23	SR / P / W / M / V / CT / B / C / CMU	wall	gray	" "	.05 mg/cm²	POS / NEG	FAIR / POOR
.24	SR / P / W / M / V / CT / B / C / CMU	floor	gray	RR. Room 222.	.04 mg/cm²	POS / NEG	FAIR / POOR
.25	SR / P / W / M / V / CT / B / C / CMU	Wall	white	RR. E. wall Room 222	0 mg/cm²	POS / NEG	FAIR / POOR

Inspector: Oscar Ayala

Signature:

XRF SERIAL NO. 10657

Address: Fort Bliss, TX - Bldg. 2478

Page: 3

SAMPLE ID.	SUBSTRATE	COMPONENT	COLOR	LOCATION	XRF READING	CLASSIFICATION	CONDITION
FB 2478 .26	SR / P / W / (M) / V / CT / B / C / CMU	ladder	gray	center Stairway 3rd floor	3.1 mg/cm²	(POS) / NEG	FAIR / POOR
.27	SR / P / W / M / V / CT / B / C / (CMU)	wall	white	Stairway S. wall	.29 mg/cm²	POS / (NEG)	FAIR / POOR
.28	SR / P / W / (M) / V / CT / B / C / CMU	Door frame	gray	room 338	.02 mg/cm²	POS / (NEG)	FAIR / POOR
.29	SR / P / (W) / M / V / CT / B / C / CMU	DOOR	varnish	" "	0 mg/cm²	POS / (NEG)	FAIR / POOR
.30	SR / P / W / M / V / CT / (B) / C / CMU	wall	white	W. wall 3rd floor Hallway	0 mg/cm²	POS / (NEG)	FAIR / POOR
.31	(SR) / P / W / M / V / CT / B / C / CMU	wall	white	E. wall room 317	0 mg/cm²	POS / (NEG)	FAIR / POOR
.32	SR / P / W / (M) / V / CT / B / C / CMU	Door frame	gray	S. wall Closet	0 mg/cm²	POS / (NEG)	FAIR / POOR
.33	SR / P / (W) / M / V / CT / B / C / CMU	door	varnish	" "	.01 mg/cm²	POS / (NEG)	FAIR / POOR
.34	SR / P / W / M / V / (CT) / B / C / CMU	wall	white	E. wall RR room 317	.06 mg/cm²	POS / (NEG)	FAIR / POOR
.35	SR / P / W / M / V / (CT) / B / C / CMU	wall	gray	" "	0 mg/cm²	POS / (NEG)	FAIR / POOR
.36	SR / P / W / M / V / (CT) / B / C / CMU	floor	grey	RR room 317	.02 mg/cm²	POS / (NEG)	FAIR / POOR
.37	SR / (P) / W / M / V / CT / B / C / CMU	wall	brown	entrance	0 mg/cm²	POS / (NEG)	FAIR / POOR
.38	SR / P / W / M / V / CT / B / C / CMU	wall	beige	E. wall EXT. Bldg 2478	0 mg/cm²	POS / (NEG)	FAIR / POOR
.39	SR / (P) / W / M / V / CT / B / C / CMU	wall	beige	West wall EXT.	0 mg/cm²	POS / (NEG)	FAIR / POOR
.40	SR / P / W / M / V / CT / B / (C) / CMU	step	gray	Stairway entrance	.01 mg/cm²	POS / (NEG)	FAIR / POOR

Inspector: Oscar Ayala

Signature:

XRF SERIAL NO. 10657

Address: Fort Bliss, TX — Bldg. 2478

Page: 4

SAMPLE ID.	SUBSTRATE	COMPONENT	COLOR	LOCATION	XRF READING	CLASSIFICATION	CONDITION
2478 .41	SR / P / W / (M) / V / CT / B / C / CMU	Hand rail	brown	Stairway entrance	0 mg/cm²	POS / (NEG)	(FAIR) / POOR
2478 [redacted] .42	SR / P / W / (M) / V / CT / B / C / CMU	step grip	brown	Stairway entrance	0 mg/cm²	POS / (NEG)	(FAIR) / POOR
.43	SR / P / W / M / V / CT / B / C / CMU				mg/cm²	POS / NEG	FAIR / POOR
.44	SR / P / W / M / V / CT / B / C / CMU				mg/cm²	POS / NEG	FAIR / POOR
.45	SR / P / W / M / V / CT / B / C / CMU				mg/cm²	POS / NEG	FAIR / POOR
.46	SR / P / W / M / V / CT / B / C / CMU				mg/cm²	POS / NEG	FAIR / POOR
.47	SR / P / W / M / V / CT / B / C / CMU				mg/cm²	POS / NEG	FAIR / POOR
.48	SR / P / W / M / V / CT / B / C / CMU				mg/cm²	POS / NEG	FAIR / POOR
.49	SR / P / W / M / V / CT / B / C / CMU				mg/cm²	POS / NEG	FAIR / POOR
.50	SR / P / W / M / V / CT / B / C / CMU				mg/cm²	POS / NEG	FAIR / POOR
.51	SR / P / W / M / V / CT / B / C / CMU				mg/cm²	POS / NEG	FAIR / POOR
.52	SR / P / W / M / V / CT / B / C / CMU				mg/cm²	POS / NEG	FAIR / POOR
.53	SR / P / W / M / V / CT / B / C / CMU				mg/cm²	POS / NEG	FAIR / POOR
.54	SR / P / W / M / V / CT / B / C / CMU				mg/cm²	POS / NEG	FAIR / POOR
.55	SR / P / W / M / V / CT / B / C / CMU				mg/cm²	POS / NEG	FAIR / POOR

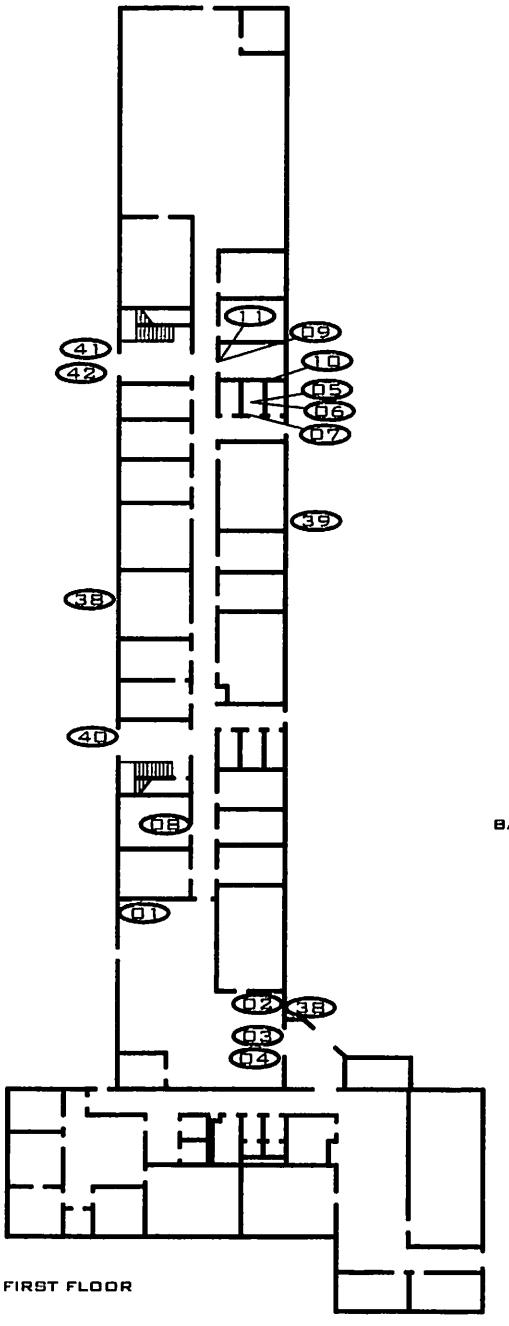
Inspector: Oscar Ayala

Signature:

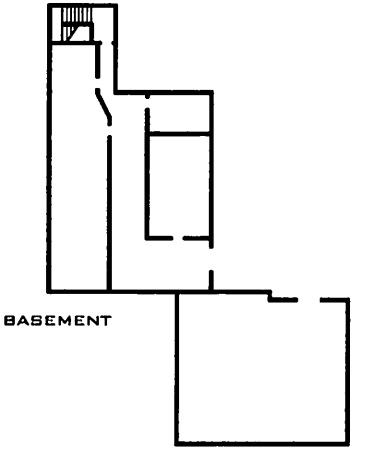
XRF SERIAL NO. 10657

APENDIX B

SAMPLE LOCATIONS DRAWING



FIRST FLOOR



BASEMENT

MECHANICAL ROOM

BUILDING 2478

R&A CONSULTANTS, CORP.
5620 GATEWAY EAST
EL PASO, TX 79905
PHONE: (915) 779-6605
FAX: (915) 779-6689

BUILDING 2478
FORT BLISS, TEXAS

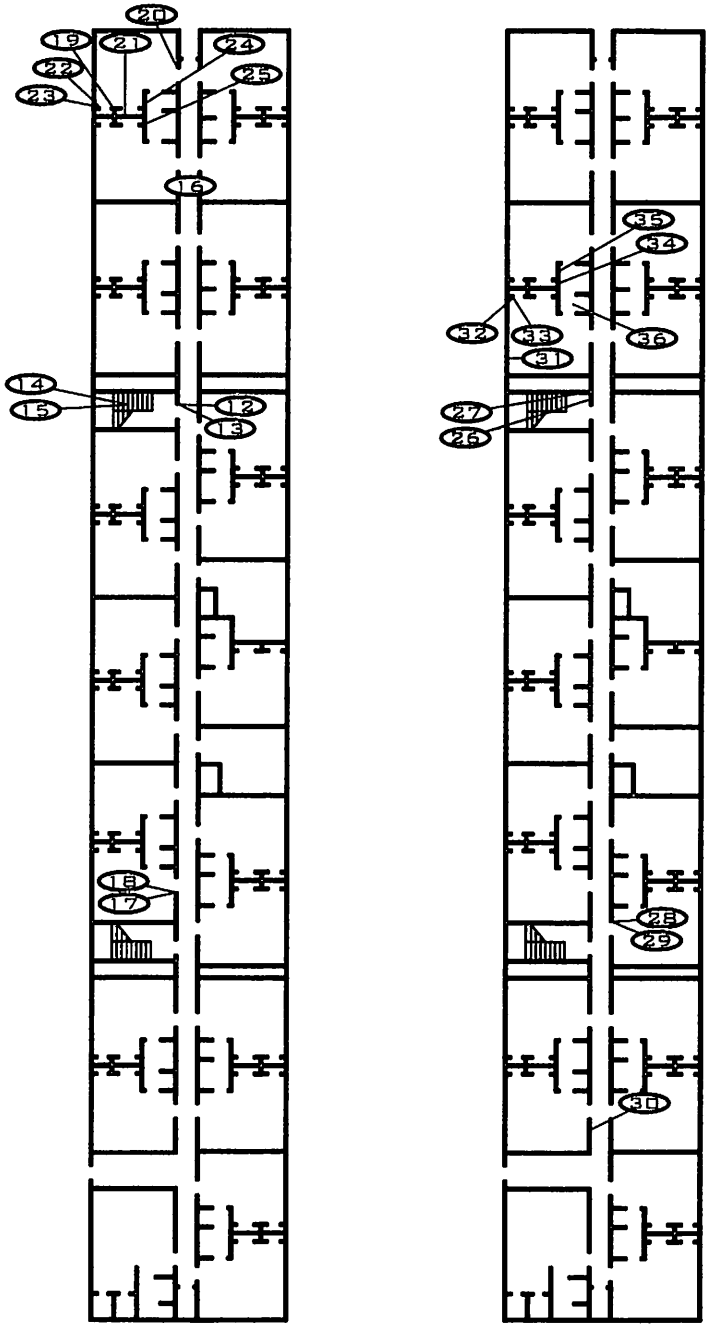
ASBESTOS INSPECTION

LOCATION
FIRST FLOOR, BASEMENT, & MECHANICAL ROOM

LEGEND
SAMPLE LOCATIONS
(#) SAMPLE LOCATION NUMBER

REVISIONS
1
2

INSPECTED BY: O. E. AYALA
DRAWN BY: J. E. AYALA
DATE: 02/02/2012
PROJECT No.:
SHEET #:



SECOND FLOOR

THIRD FLOOR

BUILDING 2478

R&A CONSULTANTS, CORP.
5020 GATEWAY EAST
EL PASO, TX 79905
PHONE: (915) 779-6605
FAX: (915) 779-6689

BUILDING 2478
FORT BLISS, TEXAS

ASBESTOS INSPECTION

LOCATION
SECOND & THIRD FLOORS

LEGEND
SAMPLE LOCATIONS
(#) SAMPLE LOCATION NUMBER

REVISIONS
1
2

INSPECTED BY: O. E. AYALA
DRAWN BY: J. E. AYALA
DATE: 02/02/2012
PROJECT No.:
SHEET #:

APENDIX C

CERTIFICATIONS

TEXAS DEPARTMENT OF STATE HEALTH SERVICES

Be it known that

R & A CONSULTANTS CORP

is certified to perform as a

Lead Firm

in the State of Texas and is hereby governed by the rights, privileges and responsibilities set forth in Texas Occupations Code, Chapter 1955 and Title 25, Texas Administrative Code, Chapter 295 relating to Texas Environmental Lead Reduction, as long as this license is not suspended or revoked.

David L. Lakey, M.D.
Commissioner of Health

License Number: 2110537

Control Number 6276

Expiration Date: 12/6/2012

(Void After Expiration Date)

VOID IF ALTERED NON-TRANSFERABLE

TEXAS DEPARTMENT OF STATE HEALTH SERVICES

Be it known that

OSCAR E AYALA

is certified to perform as a

Lead Risk Assessor

in the State of Texas and is hereby governed by the rights, privileges and responsibilities set forth in Texas Occupations Code, Chapter 1955 and Title 25, Texas Administrative Code, Chapter 295 relating to Texas Environmental Lead Reduction, as long as this license is not suspended or revoked.

David L. Lakey, M.D.
Commissioner of Health

License Number: 2070966

Expiration Date: 8/30/2013

Void After Expiration Date

VOID IF ALTERED

Control Number 6658

NON-TRANSFERABLE