

ASBESTOS INSPECTION REPORT

**Buildings 3602 & 3607
Fort Chaffee, Arkansas 72917**

EEG PROJECT # 05-0111-115

Prepared for:

**John R. Kominsky
Environmental Quality Management, Inc.
1800 Carillon Boulevard:**

Under Contract to:

**Mr. Glenn M. Shaul
Task Order Manager
Contract No. 68-C-00-186, TO #0019
U.S. EPA, Office of Research & Development
National Risk Management Research Laboratory
26 West Martin Luther King Drive
Cincinnati, OH 45268**

**August 23, 2005
(Revised November 23, 2005)**

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1.0 EXECUTIVE SUMMARY

1.1 Introduction

ENVIRONMENTAL ENTERPRISE GROUP, INC. (EEG) was retained by Environmental Quality Management, Inc. (EQ) to conduct an inspection for suspect asbestos-containing materials (ACM) in Buildings 3602 and 3607 located at Fort Chaffee, Arkansas. The inspection included the assessment of suspect friable and non-friable ACM.

The purpose of this inspection was to locate, identify, sample and assess the condition of materials present in Buildings 3602 and 3607 that were suspected of containing more than one percent (1%) asbestos. The investigation was conducted at the request of Mr. John R. Kominsky of Environmental Quality Management, Inc. (EQ). The inspection was conducted by Mr. Bob E. Smith, Arkansas Department of Environmental Quality (ADEQ) Asbestos Inspector Certification No. 011927 (Appendix A) on July 21, 2005. Mr. Smith was accompanied during the inspection by Mr. John Kominsky.

Mr. Smith conducted additional testing of the window glazing compound in Building 3607 on September 16, 2005. That is, during the inspection on July 21st only four of the windows were sampled. The September 16th inspection involved sampling of the remaining windows. Accordingly, the inspection report was updated with these results on November 23, 2005.

1.2 Building Description

Buildings 3602 and 3607 of the Former Fort Chaffee Hospital Complex, built in the 1940s, contain approximately 4,500 square feet each and are constructed of wood with wood clapboard exterior walls and asphalt shingle roofs. The interior walls are drywall. The building sits on a pier and beam foundation. The buildings utilized window unit air conditioners with heating formerly supplied by radiant heaters. Forced hot water for the radiant heat was supplied by a central steam plant located elsewhere in the hospital complex.

1.3 Findings

As suspect ACM was identified, it was classified as either friable or non-friable. Friable materials are more hazardous than non-friable materials because they are more likely to release fibers into the air. In assessing the fiber release potential, the current condition of all suspect ACM was noted. Evidence of deterioration, physical or water damage and the potential for future disturbance were taken into consideration. The potential of erosion of the suspect ACM due to air disturbance, high vibration or contact was also noted.

The following materials were found to be asbestos containing and were present at the facility in the listed quantities and locations:

Building 3602

Sample Group	*HA 3602-	Material Description	Sample Location	Friable/ Non-Friable	Quantity	Condition
3602-RFC-02A	2	Red Multi-Colored Linoleum	Bathrooms	Non-Friable	252 ft ²	Good
3602-FT-03A	3	Brown Floor Tile	Throughout	Non-Friable	3,992 ft ²	Good
3602-WG-05C	5	Window Glazing	Windows	Friable	814 l.f.	Damaged
3602-JC-06A	6	Drywall Joint Compound	Throughout	Non-Friable	20,700 ft ²	Good

*HA = Homogeneous Area

Building 3607

Sample Group	*HA 3607-	Material Description	Sample Location	Friable/ Non-Friable	Quantity	Condition
3607-RFC-02A	2	Red Multi-Colored Linoleum	Bathrooms	Non-Friable	252 ft ²	Good
3607-FT-03A	3	Brown Floor Tile	Throughout	Non-Friable	3,992 ft ²	Good
3607-WG-05C	5	Window Glazing	Windows	**Friable	814 l.f.	Good
3607-JC-06A	6	Drywall Joint Compound	Throughout	Non-Friable	20,700 ft ²	Good

*HA = Homogeneous Area

** The friability of this material is highly variable.

In accordance with the asbestos NESHPA, the window glazing compound and drywall must be removed prior to demolition activities. However, for purposes of this research project, the removal action will be limited to Building 3602. ACM should be removed in accordance with local, state and federal regulations.

It is important to note that non-friable materials may become friable when being removed or demolished. The condition of these materials must be monitored when they are being disturbed. In the event that non-friable asbestos containing materials become friable during removal or demolition, there may be regulatory issues that must be addressed.

According to the Arkansas Pollution Control and Ecology Commission Regulation 21 – Arkansas Abatement Regulation, effective July 15, 1997, all demolitions and renovations of regulated asbestos containing materials (RACM) must provide a written notice of intent (NOI) to the Arkansas Department of Environmental Quality (ADEQ). The NOI provides detailed information concerning renovations of RACM and all demolitions. A copy of the ADEQ NOI form is included in Appendix B.

2.0 MATERIAL ASSESSMENT & RECOMMENDATIONS

2.1 Asbestos Containing Materials

As a result of the inspection conducted by EEG, the following materials were classified as asbestos-containing.

HA: 3602-2

Material Description: Red Multi-Colored Linoleum

Material is located in Building 3602 – Bathrooms.

The material is a non-friable, miscellaneous material and is in good condition.

EEG recommends that the ACM identified be left in place. According to Arkansas Department of Environmental Quality Regulation 21, Section 9.2, non-regulated ACM in good condition may remain in place during demolition activities as long as NESHAP requirements are met.

Priority Level: Low

HA: 3602-3

Material Description: Brown Floor Tile

Material is located throughout Building 3602.

The material is a non-friable, miscellaneous material and is in good condition.

EEG recommends that the ACM identified be left in place. According to Arkansas Department of Environmental Quality Regulation 21, Section 9.2, non-regulated ACM in good condition may remain in place during demolition activities as long as NESHAP requirements are met.

Priority Level: Low

HA: 3602-5

Material Description: Window Glazing

Material is located throughout Building 3602.

The material is a friable, miscellaneous material and is in damaged condition.

EEG recommends that the ACM identified be removed prior to planned demolition activities. All identified ACM should be removed accordance with local, state and federal regulations.

Priority Level: High: Building is scheduled for demolition.

HA: 3602-6

Material Description: Drywall Joint Compound

Material is located throughout Building 3602.

The material is a non-friable, surfacing material and is in good condition.

EEG recommends that the ACM identified be removed prior to planned demolition activities. All identified ACM should be removed accordance with local, state and federal regulations.

Priority Level: High: Building is scheduled for demolition.

HA: 3607-2

Material Description: Red Multi-Colored Linoleum

Material is located in Building 3607 – Bathrooms.

The material is a non-friable, miscellaneous material and is in good condition.

EEG recommends that the ACM identified be left in place. According to Arkansas Department of Environmental Quality Regulation 21, Section 9.2, non-regulated ACM in good condition may remain in place during demolition activities as long as NESHAP requirements are met.

Priority Level: Low

HA: 3607-3

Material Description: Brown Floor Tile

Material is located throughout Building 3607.

The material is a non-friable, miscellaneous material and is in good condition.

EEG recommends that the ACM identified be left in place. According to Arkansas Department of Environmental Quality Regulation 21, Section 9.2, non-regulated ACM in good condition may remain in place during demolition activities as long as NESHAP requirements are met.

Priority Level: Low

HA: 3607-6

Material Description: Drywall Joint Compound

Material is located throughout Building 3607.

The material is a non-friable, surfacing material and is in good condition.

EEG recommends that the ACM identified be removed prior to planned demolition activities. All identified ACM should be removed accordance with local, state and federal regulations.

Priority Level: High: Building is scheduled for demolition.

3.0 ESTIMATED COST FOR REMOVAL

Sample Group	*HA 3602-	Material	Location	Quantity	Estimated Removal Cost
3602-RFC-02A	2	Red Multi-Colored Linoleum	Building 3602 – Bathrooms	252 ft ²	\$1,260.00
3602-FT-03A	3	Brown Floor Tile	Building 3602 – Throughout	3,992 ft ²	\$ 11,976.00
3602-WG-05C	5	Window Glazing	Building 3602 – Throughout	814 l.f.	\$ 2,035.00
3602-JC-06A	6	Drywall Joint Compound	Building 3602 – Throughout	20,700 ft ²	\$ 41,400.00
Sample Group	*HA 3607-	Material	Location	Quantity	Estimated Removal Cost
3607-RFC-02A	2	Red Multi-Colored Linoleum	Building 3607 – Bathrooms	252 ft ²	\$1,260.00
3607-FT-03A	3	Brown Floor Tile	Building 3607 – Throughout	3,992 ft ²	\$ 11,976.00
3607-WG-05C	5	White Window Glaze	Building 3607 – Windows	814 l.f.	\$ 2,035.00
3607-JC-06A	6	Drywall Joint Compound	Building 3607 – Throughout	20,700 ft ²	\$ 41,400.00
**Total Estimated Removal Cost					\$113,342.00

*HA = Homogeneous Area

**Total Estimated Removal Cost is based on all asbestos-containing materials being removed at the same time. Total Estimated Removal Cost does not include project management and air monitoring consultant fees.

4.0 METHODOLOGY

The Asbestos Hazard and Emergency Response Act (AHERA) Section 203 of Title II of TSCA, is a Federal law that describes standard methods for asbestos inspections. The AHERA addresses the hazard of asbestos in schools, and grants no jurisdictional powers to any branch of government for the regulation of asbestos in any facility other than a school. This asbestos investigation satisfies the inspection requirements outlined in the Occupational Safety and Health Administration (OSHA) 29 CFR 1910.1001 and 1926.1101. This asbestos investigation also satisfies requirements specified under the Environmental Protection Agency (EPA) National Emission Standards for Hazardous Air Pollutants (NESHAPS) 40 CFR Part 61 and Arkansas Pollution Control and Ecology Commission Regulation 21 – Arkansas Abatement Regulation, effective July 15, 1997 that states a survey must be performed identifying friable and non-friable ACM in a building prior to renovation or demolition.

The laboratory was required to follow the analytical test method and QA/QC requirements specified in EPA Test Method; *Method for the determination of Asbestos in Bulk Building Materials*: EPA/600-93/116,1993.

4.1 Homogeneous Areas

The site was inspected for the presence of materials that may contain asbestos. These materials were then described and categorized by homogeneous area (HA). The AHERA defines "homogeneous area" as an area of surfacing material, thermal system insulation material or miscellaneous material that is uniform in color, texture and date of material application. During the building inspection, the inspector classifies all materials by "homogeneous area." Homogeneous area might be better understood as a homogeneous material, since there is no requirement that a homogeneous area be contiguous or continuous. An example of this might be a building that has a single type of floor tile. All floor tile in the building would be considered a single "homogeneous area" regardless of where it is located because it is uniform in color, texture and date of material application. During this study, a homogeneous area is considered identical in each building investigated. See Appendix C for photographs of homogeneous materials.

4.2 Inspection and Sampling Methods

4.2.1 Inspection

The building inspection was performed as follows:

1. A visual determination of the quantity and condition of suspect materials in each building.
2. A physical "hand pressure" test for determining the condition of suspect materials.
3. Sampling and documentation of observable suspect materials according to EPA guidelines.

4. Measurement of all observable material sampled to determine the quantity existing within the facility. The quantity is determined by a visual inspection and/or by blueprint examination.

4.2.2 Sampling

Procedures

A comprehensive inspection was conducted of the interior and exterior of the buildings in accordance with EPA’s Asbestos Hazard Emergency Response Act (AHERA, 40 CFR 763) to determine the presence of RACM. The interior inspection included but was not necessarily limited to resilient flooring and wall (including applicable interstitial spaces) systems, mechanical systems (including plumbing and heating), as well as the attic space. The exterior inspection included but was not necessarily limited to roofing systems, caulking, and glazing compounds.

Collection of samples was conducted in accordance with a sampling and analysis plan entitled “Environmental Quality Management, Inc. *Sampling and Analysis Plan: Pre-Demolition Asbestos and Lead Inspection of Buildings 3602, 3603, 3607, and 3608 at Ft. Chaffee, Fort Smith, AR.*” dated July 16, 2005. The sampling plan was prepared by John R. Kominsky (Environmental Quality Management, Inc.) and approved by EPA’s Office of Research and Development (ORD) in Cincinnati, OH. Samples were collected using wet methods in order to minimize the potential for asbestos fiber release. All sampling tools were decontaminated between uses in order to prevent cross-contamination of samples. The following procedures were used in conducting the inspections of the buildings.

4.2.2.1 Identification of Homogenous Materials

Prior to sampling, each homogeneous material was categorized as surfacing material, thermal system insulation, or a miscellaneous material. The specific material in each category was identified; e.g., roofing shingles. A homogeneous material was determined by the same color, texture, size, and boundary of the building. The estimated number of samples collected by homogeneous material per building is presented in Table 1.

Table 1. Estimated Number of Bulk Samples per Homogeneous Material per Building.

Homogeneous Material		Number of Samples
Gypsum	Joint Compound	4
Wallboard	Add-On Compound	4
Resilient Flooring		4
Roofing		4
Glazing Compound		4 ^a
Attic Insulation		4

^a Additional sampling of Building 3607 yielded a total of 38 samples.

The sample locations were selected for each homogeneous material using a randomized stratified sampling scheme. Sampling locations were selected as follows:

- The interior of the building was separated into quadrants. Each room within the respective quadrants was numbered and the walls within each of the rooms were numbered. Note: The hallway in the respective quadrant was identified as a room. Two rooms and one wall within each room were randomly selected for sampling yielding a total of two bulk samples per quadrant and four samples per building.
- The floor and roof areas were separated into quadrants. Each quadrant was separated into four sub-quadrants. One sub-quadrant per quadrant was randomly selected for sampling yielding a total of four bulk samples of per homogeneous material per building.
- There are 34 windows and three doors (each with a window) per building yielding a total of 37 windows. The windows on each elevation (side) of the building were numbered. One window from each side of the building was randomly selected for sampling yielding a total of four bulk samples of glazing compound per building.

The location of the samples was recorded on a plan view drawing of the building contained in Appendix D. The sample number was also recorded on the plan view drawing.

4.2.2.2 Sampling of Roofing Systems

The roofing system contained multiple layers of homogeneous materials such as shingles and roofing felt. Each layer was sampled and analyzed as a discrete¹ sample. This means that multiple layers of one sample *were not composited for analysis*. Each bulk² sample was approximately 4 square inches in size; 2-inches by 2-inches. The samples were collected using a clean roofing knife. The knife was cleaned with a disposable wipe after each sample was collected. Each bulk sample was placed in a labeled ziplocked plastic bag (≥ 4 -mil industrial weight); each sample was double-bagged. *Note:* After collecting each bulk sample of roofing material, the damaged areas were repaired to prevent infiltration of moisture. The area was repaired using roofing cement.

¹ A discrete sample is individually distinct and visually recognizable.

² A bulk sample is a representative portion of a building material taken at one distinct location for qualitative and quantitative identification of asbestos. In a multilayered system, a discrete sample representative of each portion of each layer will be obtained.

4.2.2.3 Sampling of Resilient Flooring Systems

The resilient flooring systems contained multiple layers of homogeneous materials such as resilient flooring, paper underlayment, and mastic. Each layer was sampled and analyzed as a discrete sample; multiple layers of one sample were not composited for analysis. The samples were collected using a clean roofing knife or similar tool. Each bulk sample was approximately 4 square inches in size; 2-inches by 2-inches. The tool was cleaned with a disposable wipe after each sample was collected. Each bulk sample was placed in a labeled ziplocked plastic bag (>4-mil industrial weight); each sample was double-bagged.

4.2.2.4 Sampling of Glazing Compound

One sample was collected from a window located at each of the north, south, east, and west elevations of the building. Each bulk sample was approximately 2 square inches in size; e.g., approximately 0.5 inch by 4 inches. The samples were collected using a clean roofing knife or similar tool. The tool was cleaned with a disposable wipe after each sample was collected. Each bulk sample was placed in a labeled ziplocked plastic bag (>4-mil industrial weight); each sample was double-bagged.

4.2.2.5 Sampling of Wallboard Systems

The gypsum wallboard system was sampled in accordance with the supplementary guidance on bulk sample collection and analysis offered by EPA on September 30, 1994 entitled “Asbestos Sampling Bulletin.” This guidance bulletin offers a suggested strategy for distinguishing between joint compound found at joints in wallboard systems or when the material was applied as a skim coat over the wall surface.

4.2.2.6 Sampling of Joint Compound

Bulk samples were collected at wallboard joint intervals (*Figure 1*). Depending on the placement of the wallboard and stud spacing, the joint intervals were located approximately 4-feet from corners on wall stud or approximately 4-feet above the floor line. (*Note:* Sampling was not performed at the inside or outside of wall corners due to the presence of metal lathe.)

At each location a 2-inch diameter full-depth bulk sample was collected of the wallboard using a hole-saw (*crown saw*³) attached to an electric powered variable speed drill (see photograph in Appendix C). (*Note:* If the 2-inch diameter bulk sample crumbles or broke down at the time of sample collection, a 3-inch diameter sample was collected.) Sufficient care was exercised by the inspector to remove the bulk sample intact from the hole-saw. Prior to sampling, the interior surface of the hole-saw was sprayed with a silicone lubricant to increase the releasability of the intact bulk sample. The tool was cleaned with a disposable wipe after each sample was collected. Each bulk sample was placed in a labeled ziplocked plastic bag (≥4-mil industrial weight); each sample was double-bagged.

³ A saw with a hollow rotating cylinder that has teeth around the edge for drilling round holes in building materials.

Each sample was packaged to ensure that it remained intact until it reached the analytical laboratory. In the laboratory the full-depth core sample was separated into its discrete layers (*Figure 1*) for analysis.

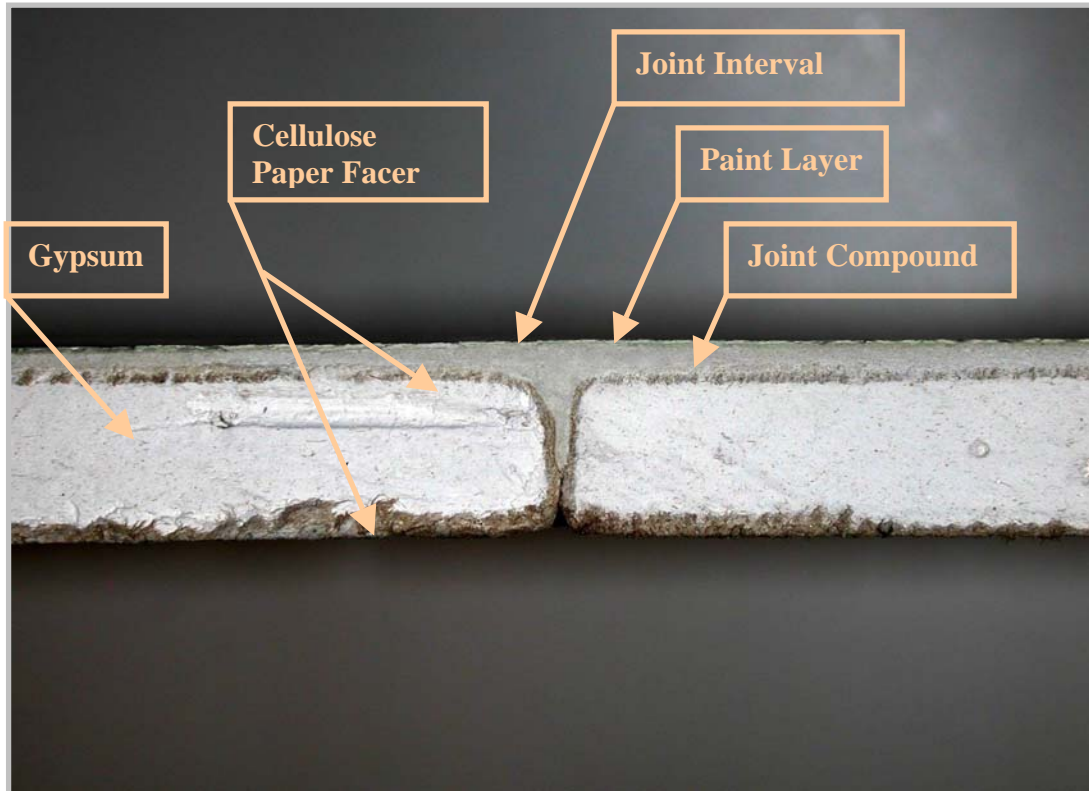


Figure 1. Section of 1/2-inch gypsum wallboard showing a multi-layered joint interval. Wallboard was obtained from Building #3607.

4.2.3 Chain of Custody Procedures

A copy of the chain of custody that accompanied the samples is supplied in the Analytical Results. The inspector filled out the chain of custody form after all samples were collected and prior to shipping samples. When the laboratory received the samples, the chain of custody was transferred to the laboratory.

4.2.4 Analytical Results

The samples of suspect ACM's were analyzed by Reservoirs Environmental, Inc. The analyses (PLM and TEM) are contained in the laboratory analytical reports in Appendix E.

4.3 Assessment Logic

4.3.1 Priority Level Determination

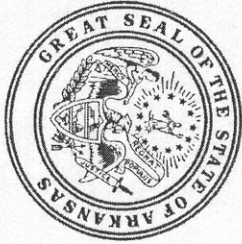
As a result of the inspection and laboratory analysis of the bulk samples collected, EEG has generated a priority level for ACM that follows AHERA guidelines. The AHERA guidelines recognize seven levels of hazard associated with asbestos based on six primary variables: material condition; water damage; exposed surface area; accessibility; activity/movement; and air plenum/direct air stream.

The *Decision Logic Flow Chart for Hazard Assessments*, located in **Appendix F** of this report, shows the decision logic used to classify ACM by AHERA guidelines.

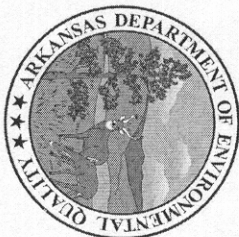
APPENDICES

Appendix A

Inspector Certificates



State of Arkansas
Department of
Environmental Quality



011927 ROBERT E. SMITH

having satisfied the requirements necessary to meet the provisions of AHERA/ASHARA under TSCA Title II and the Arkansas Pollution Control and Ecology Commission's Regulation 21 and is hereby certified in the State of Arkansas in the discipline(s) of Asbestos

Air Monitor 02/28/2006

Contractor/Supervisor 02/28/2006

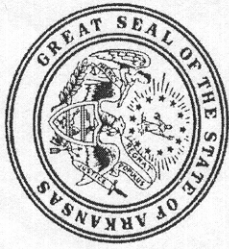
Inspector 02/28/2006

Issue Date: 11-Mar-2005

Project Designer 02/28/2006

Barbara Hale

Agency Program Coordinator
Air Division - Asbestos Program



State of Arkansas
Department of
Environmental Quality



EEG, INC.

is a licensed

Asbestos Abatement Consultant

having qualified as required by law in accordance with the regulations adopted by the Arkansas Pollution Control and Ecology Commission's Regulation 21 pursuant to Arkansas Code Annotated §20-27-1001 et seq., relative to abatement of asbestos-containing material within the state of Arkansas.

License Number: 000234

Issue Date: 2004 November 09

Expire Date: 2005 December 31

Barbara Hale

Agency Program Coordinator
Air Division - Asbestos Program

Appendix B

ADEQ Notice of Intent

ASB

ARKANSAS DEPARTMENT OF ENVIRONMENTAL QUALITY

ASBESTOS NOTICE OF INTENT

P. O. BOX 8913
LITTLE ROCK, AR 72219-8913
ATTN: ASBESTOS SECTION
PHONE NUMBER: 501-682-0718

Department Use Only

Postmarked
Date received
Priority
County
CSN
Point source

Form with sections for: 1) CHECK ONE (Demolition, Ordered Demolition, Renovation), 2) WORK SCHEDULE (Abatement Dates), 3) ABATEMENT WORK HOURS, 4) DEMOLITION DATES, 5) WORK HOURS, and 6) CONTRACTOR/CONSULTANT information (License, Address, City, State, Zip Code, Contact Person, Telephone).

7) FACILITY OWNER *6.6B
ADDRESS
CITY STATE ZIP CODE
CONTACT PERSON TELEPHONE

8) NAME OF STRUCTURE(S)*6.6G
ADDRESS
CITY STATE ZIP CODE
NUMBER OF FLOORS DIMENSIONS AGE
PRIOR USE PRESENT USE

9) PROJECT DESIGNER (NEEDED IF 3 SQ/3 LN RACM IS INVOLVED)*5.2, *5.3D & *6.6R
NAME AR CERTIFICATION #
ADDRESS
CITY STATE ZIP CODE
LICENSED FIRM AR LICENSE #
(EMPLOYMENT WITH LICENSED FIRM REQUIRED IF NOT WORKING AS FULL-TIME EMPLOYEE OF FACILITY.)

10) INSPECTOR (NEEDED FOR ALL PROJECTS) *5.1, *6.3B & *6.6R
NAME AR CERTIFICATION #
ADDRESS
CITY STATE ZIP CODE
LICENSED FIRM AR LICENSE #
DATE OF ASBESTOS SURVEY USED FOR RENO/DEMO PROJECT
AREA TO BE DISTURBED INCLUDED IN SURVEY? YES NO
(AS OF JANUARY 15, 1998, SURVEYS ARE TO BE PREPARED BY AR CERTIFIED INSPECTOR WORKING AS FULL-TIME EMPLOYEE OF FACILITY OR FOR LICENSED FIRM.)

11) AIR MONITOR (NEEDED IF CONTAINMENT IS USED) *5.3, 6.6R & 9.7
NAME AR CERTIFICATION #
ADDRESS
CITY STATE ZIP CODE
LICENSED FIRM AR LICENSE #
(EMPLOYMENT WITH LICENSED FIRM REQUIRED IF NOT WORKING AS FULL-TIME EMPLOYEE OF FACILITY.)

12) (A) APPROXIMATE AMOUNT AND TYPE OF RACM TO BE REMOVED: *6.6F

(B) IF PROJECT IS DEMOLITION, LIST TYPE AND AMOUNT OF CATEGORY I AND
CATEGORY II ACM BEING LEFT IN PLACE: *6.6F

(C) PROCEDURE, INCLUDING ANALYTICAL METHODS, EMPLOYED TO DETECT THE
PRESENCE OF RACM AND CATEGORY I AND CATEGORY II NONFRIABLE ACM: *6.6E

13) DESCRIPTION OF PLANNED DEMOLITION OR RENOVATION WORK TO BE PERFORMED
AND METHODS(S) TO BE EMPLOYED, INCLUDING DEMOLITION OR RENOVATION
TECHNIQUES TO BE USED AND DESCRIPTION OF AFFECTED FACILITY COMPONENTS: *6.6J

14) DESCRIPTION OF WORK PRACTICES AND ENGINEERING CONTROLS TO BE USED TO
PREVENT EMISSIONS OF ASBESTOS AT THE DEMOLITION OR RENOVATION SITE: *6.6K

15) DESCRIPTION OF PROCEDURES TO BE FOLLOWED IN THE EVENT THAT UNEXPECTED
ASBESTOS IS FOUND OR PREVIOUSLY NONFRIABLE ASBESTOS MATERIAL BECOMES
CRUMBLLED, PULVERIZED OR REDUCED TO A POWDER: *6.6P

16) If demolition ordered by a government agency, please identify the agency below: *6.2 & 6.6N

NAME OF INDIVIDUAL TITLE

ADDRESS

CITY STATE ZIP CODE

AUTHORITY

DATE OF ORDER DATE ORDERED TO BEGIN

METHOD OF DEMOLITION

(COPY OF ORDER MUST BE ATTACHED)

17) FOR EMERGENCY RENOVATIONS *6.5 & 6.6O

DATE OF EMERGENCY HOUR OF EMERGENCY

DESCRIPTION OF THE SUDDEN, UNEXPECTED EVENT

EXPLANATION OF HOW THE EVENT CAUSED UNSAFE CONDITIONS OR WOULD CAUSE
EQUIPMENT DAMAGE OR UNREASONABLE FINANCIAL BURDEN:

(18) WASTE TRANSPORTER *6.6Q

NAME OF TRANSPORTER

ADDRESS CITY

STATE ZIP CODE TELEPHONE

19) WASTE DISPOSAL SITE *6.6L

NAME OF LANDFILL

ADDRESS CITY

STATE ZIP CODE TELEPHONE

20) *If abatement is involved, I certify that at least one Contractor/supervisor trained in the provisions of Regulation 21 will be on site during the abatement process and will supervise the abatement. *6.6M*

I certify that the information contained in this Notice of Intent (NOI) is true and correct. I understand that falsification or omission of relevant information shall be grounds for enforcement action by the Department of Environmental Quality or Environmental Protection Agency .

SIGNATURE DATE

(Signatures must be original signatures-no photocopies or rubber stamps.)

MAKE CHECKS PAYABLE TO: AR DEPARTMENT OF ENVIRONMENTAL QUALITY

SEND TO: ARKANSAS DEPARTMENT OF ENVIRONMENTAL QUALITY (ADEQ)

ASBESTOS/LEAD SECTION

P O BOX 8913

LITTLE ROCK, AR 72219-8913

Appendix C

Photographs



Asbestos Containing Multi-Colored Linoleum



Asbestos Containing 9" x 9" Brown Floor Tile

**FORMER HOSPITAL COMPLEX
BUILDINGS 3602 and 3607
FORT CHAFFEE, ARKANSAS**

EEG Project #05-0111-115

EEG
Environmental
Enterprise Group, Inc.
A 3W Company

www.eegonline.com



Asbestos Containing Drywall Joint Compound



Asbestos Containing Window Glazing

**FORMER HOSPITAL COMPLEX
BUILDINGS 3602 and 3607
FORT CHAFFEE, ARKANSAS**

EEG Project #05-0111-115

EEG
Environmental
Enterprise Group, Inc.
A 3W Company

www.eegonline.com

Appendix D

Sample Location Drawings

Appendix E

Analytical Results



Reservoirs Environmental, Inc.

2059 Bryant St. Denver, CO 80211
(303) 964-1986 Fax (303) 477-4275 Toll Free (866) RESI-ENV

**United States
Environmental Protection Agency**

Final Report

August 17, 2005

RES 114158

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Reservoirs Environmental, Inc.

2059 Bryant St. Denver, CO 80211
(303) 964-1986 Fax (303) 477-4275 Toll Free (866) RESI-ENV

August 17, 2005

Glenn M. Shaul
US EPA
26 W Martin Luther King Dr. MS 445
Cincinnati OH 45268

Laboratory Code: RES
Laboratory Report: RES 114158
Project Description: USEPA Building
Demolition Evaluation
Project

Dear Mr. Shaul,

Reservoirs Environmental, Inc. is an analytical laboratory accredited for the analysis of Industrial Hygiene and Environmental matrices by the National Voluntary Laboratory Accreditation Program (NVLAP), Lab Code # 101896 and the American Industrial Hygiene Association (AIHA), Lab ID 101533 - Accreditation Certificate #480. This laboratory is currently proficient in both Proficiency Testing and PAT programs respectively

Reservoirs Environmental, Inc. has analyzed the following samples for asbestos content as per your request. The analysis has been completed in general accordance with the appropriate methodology as stated in the attached analysis table. The results have been submitted to your office.

RES 114158 is the job number assigned to this study. This report is considered highly confidential and the sole property of the customer. Reservoirs Environmental, Inc. will not discuss any part of this study with personnel other than those of the client. The results described in this report only apply to the samples analyzed. This report must not be used to claim endorsement of products or analytical results by NVLAP or any agency of the U.S. Government. This report shall not be reproduced except in full, without written approval from Reservoirs Environmental, Inc. Samples will be disposed of after sixty days unless longer storage is requested. If you have any questions about this report, please feel free to call 303-964-1986.

Sincerely,



Jeanne Spencer Orr
President



Reservoirs Environmental, Inc.

2059 Bryant St. Denver, CO 80211
(303) 964-1986 Fax (303) 477-4275 Toll Free (866) RESI-ENV

Analyst Signature Page

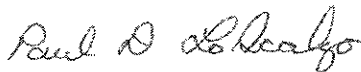
RES 114158

PLM Analyst:



Michael Scales

TEM Analyst:



Paul D. LoScalzo



Reservoirs Environmental, Inc.

2059 Bryant St. Denver, CO 80211
(303) 964-1986 Fax (303) 477-4275 Toll Free (866) RESI-ENV

Case Narrative

RES 114158

Samples were relinquished to the laboratory in appropriately sealed containers. The customer Chain of Custody containing all client information is signed upon receipt, then transferred to Reservoirs Environmental, Inc Chain of Custody. The sample set was assigned a unique batch RES job number and EM sample number respectively. Client data information was entered into the Laboratory's Information Management System.

PLM Analysis was conducted in accordance with "Method for the Determination of Asbestos in Bulk Building Materials" EPA 600/R-93/116. Samples received for PLM analysis were examined by stereo microscopy at 6 to 60X magnification. The analyst determined the general description of the sample, the number and percent of separable layers and then determined the percent asbestos by layer if it was visible by stereo microscopy. The analyst then prepared multiple slides of each individual layer in the appropriate refractive index oil for examination in the polarized light microscope. The optical properties of the minerals present were used to identify the type of asbestos present in the sample. A combination of the amount of asbestos observed in the stereo microscope and the amount of asbestos observed in the slide preparations was compared to known standards, reference charts and analyst experience to define a range of asbestos observed in that layer. For example, if the analyst recorded an asbestos range of 1-5% and an estimate of 4%, this means that the layer definitely contained above 1% and the best estimate was 4%. The method provides a calibrated visual estimate, not an exact result.

The PLM method was designed to determine if asbestos was in a building material above the 1% level. Building materials, especially compounds applied wet such as joint compound and ceiling spray-on can vary tremendously from sample to sample. It is not unusual for two samples of the same material to vary in visual estimate by 50% or more when the actual asbestos content is below 10%. For that reason multiple samples are required of the sampling team and the analysts record a concentration range. Individual asbestos fibrils are not visible by PLM and will not be detected by this method.

Each sample was analyzed by layer and the layers were reported separately. Paint and plaster were reported as one layer if the two could not reasonably be separated. The visual range of asbestos present and the analyst's visual estimate were recorded and results are presented in Table 1. Selected samples were point counted (400 points) using a cross hair and random selection of the fields. Gravimetric reduction was not done on the point count samples prior to the point count analysis. Results are presented in Table 2.

EPA 600/R-93/116 allows for the compositing of layers of drywall and joint compound but does not define a method for sampling. For the purposes of this study, drywall and joint compound were sub-sampled for consistency and direct comparison according to the following: Drywall was sub sampled equal to the width of the seam from both sides of the seam. Joint compound and tape above the seam were observed and included in the sub-sample. In this way, 58-63% of the sample was drywall, 35-40% of the sample was joint compound and 2-5% of the sample was tape and/or paint. Layers were analyzed separately.

Gravimetric TEM analysis was performed on selected samples and analyzed in accordance with EPA 600/R-93/116. A portion of asbestos containing layer was removed from the sample, weighed then ashed overnight at 480°C to remove any organic matrix. The ashed residue was acidified to remove carbonaceous material then collected on a filter and weighed. The gravimetric reduction ratio was calculated. The starting weights and gravimetric reduction data are included in Table 3. The residue was examined by TEM and a visual estimate of the asbestos present in the residue was recorded.

All fiber sizes are visible by TEM allowing the detection of individual fibrils that are not visible by PLM. The visual estimate was based on standards, reference charts and analyst experience. The asbestos concentration range was calculated from the gravimetric reduction data and is included in Table 1. Composite results were calculated based on the sub-sample proportions and are included in Table 1.

References:

Method for the Determination of Asbestos in Bulk Building Materials, EPA/600/R-93-116.

RESERVOIRS ENVIRONMENTAL, INC.

NVLAP Accredited Laboratory # 101896
TDH Licensed Laboratory # 30-0136

TABLE I PLM/TEM BULK ANALYSIS

RES Job Number: **RES 114158**
 Client: **US EPA**
 Client Project Description: **USEPA Building Demolition Evaluation Project**
 Date Samples Received: **March 18, 2005**
 Date Samples Collected: **March 8, 2005**
 Analysis Type: **EPA 600/R-93/116**
 Turnaround: **Standard**
 Date Analyzed: **March 22, 2005, August 11, 2005**

Client Sample Number	Lab ID Number	L A Y E R	Physical Description	Sub Part (%)	PLM Asbestos Content			TEM Asbestos Content			Non-Asbestos Fibers Components (%)	Non-Fibrous Components (%)
					Mineral	Visual Range (%)	Visual Estimate (%)	Overall Gravimetric Reduction Ratio	Calculated Range (%)			
3707-2G *	EM 953240	A	White joint compound w/ white textured paint	37	Chrysotile	1-5	3	0.23	9-12	0	97	
		B	White tape	3		ND	NA	NA	NA	90	10	
		C	White/tan drywall	60	Composite	ND	NA	NA	NA	15	85	
3708-3A *	EM 953241	A	White joint compound w/ white textured paint	37	Chrysotile	1-5	4	NA	NA	TR	96	
		B	White tape	3		ND	NA	NA	NA	90	10	
		C	White/tan drywall	60		ND	NA	NA	NA	15	85	
3708-3B *	EM 953242	A	White joint compound w/ white textured paint	37	Chrysotile	1-5	5	NA	NA	0	95	
		B	White tape	3		ND	NA	NA	NA	90	10	
		C	White/tan drywall	60		ND	NA	NA	NA	18	82	
3708-3C *	EM 953243	A	White joint compound w/ white paint	37	Chrysotile	1-5	3	NA	NA	TR	97	
		B	White tape	3		ND	NA	NA	NA	90	10	
		C	White/tan drywall	60		ND	NA	NA	NA	12	88	
3708-3D *	EM 953244	A	White joint compound w/ white paint	37	Chrysotile	1-5	4	NA	NA	TR	96	
		B	White tape	3		ND	NA	NA	NA	90	10	
		C	White/tan drywall	60		ND	NA	NA	NA	15	85	
3708-3E *	EM 953245	A	White joint compound w/ white paint	37	Chrysotile	1-10	5	NA	NA	1	94	
		B	White tape	3		ND	NA	NA	NA	90	10	
		C	White/tan drywall	60		ND	NA	NA	NA	15	85	
3708-4A	EM 953246	A	Gray fibrous insulation	100		ND	NA	NA	NA	90	10	
		A	Gray fibrous insulation	100		ND	NA	NA	NA	90	10	
3708-4B	EM 953247	A	Red/tan grit shingle	25		ND	NA	NA	NA	12	88	
		B	Gray/red grit shingle	35		ND	NA	NA	NA	10	90	
		C	Black felt	40		ND	NA	NA	NA	75	25	
3708-5A	EM 953248	A	Black tar mastic	3		ND	NA	NA	NA	0	100	
		B	Red/tan grit shingle	38		ND	NA	NA	NA	10	90	
		C	Black felt	59		ND	NA	NA	NA	75	25	

* Sub sample percent is controlled for samples.

ND = None Detected
TR = Trace, < 1% Visual Estimate

NA = Not Analyzed
Trem-Act = Tremolite-Actinolite

Reservoirs Environmental, Inc.
3000 W. 19th St.
Tulsa, OK 74107
Data QA

TABLE II PLM BULK ANALYSIS, PERCENTAGE COMPOSITION BY POINT COUNT

RES Job Number: **RES 114158**
 Client: **US EPA**
 Client Project Description: **USEPA Building Demolition Evaluation Project**
 Date Samples Received: **March 18, 2005**
 Date Samples Collected: **March 8, 2005**
 Analysis Type: **PLM, Point Count**
 Turnaround: **3-5 Day**
 Date Analyzed: **March 26, 2005**

Analyst: MS

Client Sample Number	Lab ID Number	LAYER ANALYZED	ASBESTOS MINERAL	ASBESTOS CONTENT Point Count (%)
3707-2A	EM 953234	B	Chrysotile	3.50
3707-2B	EM 953235	A	Chrysotile	1.25
3707-2C	EM 953236	A	Chrysotile	1.75
3707-2D	EM 953237	A	Chrysotile	3.50
3707-2E	EM 953238	A	Chrysotile	1.75
3707-2F	EM 953239	A	Chrysotile	3.75
3707-2G	EM 953240	A	Chrysotile	1.25
3708-3A	EM 953241	A	Chrysotile	4.25
3708-3B	EM 953242	A	Chrysotile	3.50
3708-3C	EM 953243	A	Chrysotile	3.75
3708-3D	EM 953244	A	Chrysotile	7.50
3708-3E	EM 953245	A	Chrysotile	6.25

ND = None Detected

Trace = Asbestos observed but not counted under point count protocol, less than 0.25%

Point Count Analysis was performed only on the asbestos containing layer.

Gravimetric Reduction Analysis was not performed before point count analysis.

TABLE III GRAVIMETRIC REDUCTION DATA SHEET

Lab Name: **Reservoirs**
 Lab Job No.: **114158**

EPA Sample Index Number	Lab Sample Number	Sample Ashing						Acid Grinding followed by Filtration				Overall Grav. Reduction Ratio (GRR)	TEM Visual Estimate (Range %)	Final Calculated Percent Range in Original Layer
		Weight (g. to the nearest 0.01g)		Crucible + Ashed Sample	Ashed residue	GRR from Ashing	Weight (g. to the nearest 0.01g)		Filtered Residue	GRR from Acid grinding				
		Crucible	Original Sample Mass				Filter + Dish + Residue	Filter + Dish + Residue						
2A	953234	16.55	16.80	0.25	16.78	0.23	0.91	0.02	0.08	0.07	0.30	0.27	40 - 50	11.0 - 13.7
2B	953235	15.89	16.02	0.13	16.01	0.12	0.89	0.02	0.05	0.03	0.29	0.26	15 - 25	3.8 - 6.4
2C	953236	16.84	17.03	0.18	17.01	0.16	0.89	0.02	0.06	0.05	0.28	0.25	20 - 30	5.0 - 7.5
2D	953237	17.31	17.42	0.11	17.41	0.09	0.88	0.02	0.04	0.03	0.28	0.25	50 - 60	12.4 - 14.9
2E	953238	16.77	16.99	0.22	16.97	0.20	0.90	0.02	0.09	0.07	0.36	0.33	30 - 40	9.8 - 13.1
2F	953239	16.82	17.09	0.27	17.06	0.24	0.90	0.02	0.15	0.14	0.57	0.52	30 - 40	15.5 - 20.7
2G	953240	17.42	17.58	0.16	17.56	0.14	0.90	0.02	0.05	0.04	0.26	0.23	40 - 50	9.3 - 11.6

Calculations:

GRR from ashing = Ashed residue / Original Sample Mass

GRR from Acid grinding = Filtered Residue / Ashed residue

Overall Grav. Reduction Ratio (GRR) = GRR from Ashing X GRR from Acid grinding

Final Calculated Percent Range in Original Layer = TEM Visual Estimate (Range%) X Overall Grav. Reduction Ratio (GRR)

APPENDIX A

QC Results Summary

RES 114158

Quality Control Analyses were conducted in general accordance with Reservoirs Environmental, Inc's established program. Quality control samples are listed below. Sample Quality Control Data was acceptable within the laboratory's statistical acceptance / rejection criteria.

QC Results Tally

Client Sample ID	REI EM Number	Layer	Original Count	QC Count
2C	953236	A	ND	ND
		B	3	3
		C	ND	ND
4A	953246	A	ND	ND

RESERVOIRS ENVIRONMENTAL SERVICES, INC.
PLM ASBESTOS ANALYSIS - LAB BLANK/RECOUNT

LAB SAMPLE #: 953236
 PREPARED BY: MS

RES #: 114158
 DATE PREPARED: 3/22/05

ASBESTOS FIBERS	SUB-PART:			
	A	B	C	D
PERCENT:	<u>3</u>	<u>37</u>	<u>60</u>	<u> </u>
CHRYSOTILE	<u> </u>	<u>1-5</u>	<u> </u>	<u> </u>
AMOSITE	<u> </u>	<u> </u>	<u> </u>	<u> </u>
CROCIDOLITE	<u> </u>	<u> </u>	<u> </u>	<u> </u>
TREMOLITE-ACTINOLITE	<u> </u>	<u> </u>	<u> </u>	<u> </u>
ANTHOPHYLLITE	<u> </u>	<u> </u>	<u> </u>	<u> </u>
TOTAL ASBESTOS:	<u>0</u>	<u>3</u>	<u>0</u>	<u> </u>

PART:	PHYSICAL DESCRIPTION:
<u>A</u>	<u>white tape</u>
<u>B</u>	<u>white joint comp. w/ ah. Text. pt.</u>
<u>C</u>	<u>white / tan dry wall</u>
<u>D</u>	<u> </u>

ORIGINAL ANALYZED BY: ms

DATE ANALYZED: 3/22/05

QC ANALYZED BY: ms

DATE ANALYZED: 3/22/05

ORIGINAL RESULTS		
PART #	TYPE(S) ASBESTOS	% ASBESTOS
<u>A</u>	<u> </u>	<u>ND</u>
<u>B</u>	<u>chrysotile</u>	<u>3</u>
<u>C</u>	<u> </u>	<u>ND</u>
<u>D</u>	<u> </u>	<u> </u>
<u>E</u>	<u> </u>	<u> </u>
<u>F</u>	<u> </u>	<u> </u>
<u>G</u>	<u> </u>	<u> </u>

RESERVOIRS ENVIRONMENTAL SERVICES, INC.
PLM ASBESTOS ANALYSIS - LAB BLANK/RECOUNT

LAB SAMPLE #: 953246 RES #: 114158
 PREPARED BY: PDL DATE PREPARED: 3/22/05

ASBESTOS FIBERS	SUB-PART:	A	B	C	D
	PERCENT:	<u>100</u>			
CHRYSOTILE					
AMOSITE					
CROCIDOLITE					
TREMOLITE-ACTINOLITE					
ANTHOPHYLLITE					
TOTAL ASBESTOS:		<u>0</u>			

PART: A PHYSICAL DESCRIPTION: Gray Fibrous Insulation
B
C
D

ORIGINAL ANALYZED BY: Mike Scates DATE ANALYZED: 3/22/05
 QC ANALYZED BY: PDL DATE ANALYZED: 3/22/05

ORIGINAL RESULTS			
PART #	TYPE(S) ASBESTOS	% ASBESTOS	
A		<u>ND</u>	
B			
C			
D			
E			
F			
G			

Reservoirs Environmental, Inc
National Voluntary Laboratory Accreditation Program, Lab Code #101896

Appendix B

Chain of Custody and Count Sheets

RESERVOIRS ENVIRONMENTAL, INC.

2959 Bryant St., Denver CO 80211

Due Date: 3/23/05

RESI Job #: ES 114158

Due Time: 10:20 AM

Page 1 of 2

SAMPLES SUBMITTED BY:		INVOICE TO: (IF DIFFERENT)	
Company: <u>US EPA</u>			
Address: _____			
Contact: <u>Gene Spaul</u>		Phone: <u>513-581-5418</u> Fax: _____	
Project Number and/or P.O. #: _____		Page: <u>513-580-9420</u>	
Project Description/Location: <u>TR-20-02-2ND VISIT</u>		Final Data Only/Visible Email Address: _____	

After Hours/Weekend CHARGE: Assistant 3 Authorized by: _____

Additional fees apply for after hours and holidays for all analysis types. Samples will be analyzed during normal laboratory hours unless otherwise arranged and specified on the chain of custody. Turnaround is subject to laboratory volume. You will be notified if delays are expected.

ASBESTOS LABORATORY HOURS:
Weekdays: 8am - 5pm; Saturday: 8am - 5pm

PC/MPLM 2 hour RUSH 24 hour 24 weekdays

TEM 8 hour RUSH 24 hour 24 weekdays

Price Index REQUIRED for TEM 8 Hour RUSH

ANALYTICAL METHOD

AIR

PCM 7630A, 7630B, GSHA

TEM APERA, Level II, 7402 ISO

Filter/Isol, ISO-Indirect Preps, Microvac

AA/ICP Method RCRA 8

Dust Total, Respirable

BULK:

PLM Short report, Long report, Point Count, Microvac

TEM w/ Count, Semi-quant

AA/ICP Method RCRA 8

Paint, Sol, Diox, Wps, TCLP (ASTM E 1752 approved wps only)

WATER

TEM Drinking, Waste Water

AA Water Method RCRA 8

Drinking, Waste Water

OTHER

Specy

METALS LABORATORY HOURS:
Weekdays: 8am - 5pm

AA/ICP SPECIAL RUSH 24 Hour 24 Day

RCRA 8 SPECIAL RUSH 2 Day 10 Day

TCLP SPECIAL RUSH 2 Day 10 Day

Price Index REQUIRED for SPECIAL RUSH AA, RCRA 8 or TCLP

RCRA and TCLP SPECIAL RUSH is 3 Day Turnaround

	Client Sample Number	Volume	EM#
1.	<u>1C</u>	_____	<u>953231</u>
2.	<u>1D</u>	_____	<u>32</u>
3.	<u>1E</u>	_____	<u>33</u>
4.	<u>2a</u>	_____	<u>34</u>
5.	<u>2b</u>	_____	<u>35</u>
6.	<u>2c</u>	_____	<u>36</u>
7.	<u>2d</u>	_____	<u>37</u>
8.	<u>2e</u>	_____	<u>38</u>
9.	<u>2f</u>	_____	<u>39</u>
10.	<u>2g</u>	_____	<u>40</u>
11.	<u>3a</u>	_____	<u>41</u>
12.	<u>3b</u>	_____	<u>42</u>
13.	<u>3c</u>	_____	<u>43</u>
14.	<u>3d</u>	_____	<u>44</u>
15.	<u>3e</u>	_____	<u>45</u>

Number of samples received: 19 (Use as many additional sheets as needed)

NOTE: RESI will analyze incoming samples based upon information received and will not be responsible for errors or omissions in calculations resulting from the inaccuracy of original data. By signing this copy you represent you agree that utilization of the following samples for requested analysis as indicated on this Chain of Custody still constitutes an analytical contract agreement with payment terms of NET 30 days.

Relinquished By: _____ Date/Time: _____

Laboratory Use Only

Received By: Gene Spaul Date/Time: 3-18-05 @ 10:20 AM

Condition of package/custody and upon receipt: good

RESULTS: Contact Page Phone Fax Email Date Time Initials

SPLITS: Authorization By/Time: _____	Lab Bench/Count Sheets Received By: _____
Analytical Method/Turnaround: _____	Time: _____ Date: _____
for 10/25/04 Results Due: _____	Results Out: _____

RESERVOIRS ENVIRONMENTAL, INC.

RESI Job #: 11458

SAMPLES SUBMITTED BY:

Company: US EPA
Contact: Stenn Shaul

Due Date: 3-23-85
Due Time: 10:20am

Project Description and/or P.O. #: Frost Chaffee - 2nd Visit 1 #

SAMPLES:

No.	Client Sample Number	Volume	EM #
16	4a		
17	4B		953746
18	5a		47
19	5B		48
20			49
21			
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24			
25			
26			
27			
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APPENDIX A. CHAIN OF CUSTODY FORM

RES # 114158

Sheet 1 of 2

CHAIN OF CUSTODY FORM

Investigator (name, address, ph & fax nos.) Glenn M. Shaul 513-569-7908		Sample matrix		Sample preservation		Analytic	
Site Fort Chaffee - Second Visit		WATER		None		PLM w/ Paint Cont.	
Laboratory (name, address, ph & fax nos.) Reservoirs Environ. Janning (Stary) 303-967-1936		SLUDGE		None			
Contact person FedEx 8507 9659 8987		SOIL		None			
Courier		OTHER SPECIFIC		None			
Contact person		OTHER SPECIFIC Housing		None			
Sample ID		CONTAINER		None			
Laboratory ID		Sampling		None			
		Date		None			
		Time		None			
1A	Insulation (center)	3/8/05					
1B	Insulation (center)						
1C	Insulation (Rmk)						
2A	Wall Joint (Rm 1A)						
2B	Wall Joint (Rm 10A)						
2C	Wall Joint (Rm 5A)						
2D	Wall Joint (Rm 5A)						
2E	Wall Joint (Rm 9A)						
2F	Wall Joint (Rms 10A + 11A - Both)						
2G	Wall Joint (Hallway)	3/8/05					
Investigator: I attest that the proper field sampling procedures were used during the collection of these samples.		Sampler names (print & signature)		Date		Time	
		Glenn M. Shaul		3/8/05		10:20am	
Relinquished by: (print & signature)		Date		Time		Time	
Glenn M. Shaul		3/8/05		3:10 PM		10:20am	
Relinquished by: (print & signature)		Date		Time		Time	
Glenn Veddars		3/8/05		3:10 PM		10:20am	
Relinquished by: (print & signature)		Date		Time		Time	
Glenn Veddars		3/8/05		3:10 PM		10:20am	

Bldg. 3707

RESERVOIRS ENVIRONMENTAL SERVICES, INC.
PLM ASBESTOS ANALYSIS - SHORT REPORT

DUE DATE: 3/23-3/25
DUE TIME: 10:00 A

RES#: 114150
EM#: 953231

Storage Box#: 3/22/05
Client Sample #: 1A

Sub-Part Percent	A	B	C	D	E
ASBESTOS FIBERS	100				
CHRYSOTILE					
AMOSITE					
CROCIDOLITE					
TREMOLITE-ACTINOLITE					
ANTHOPHYLLITE					
TOTAL ASBESTOS	0				
NON-ASBESTOS FIBERS	90				
NON-FIBROUS CONSTITUENTS	10				

PART: Physical Description:
gray fibrous insulation

Fibr	Mi	Pe	Gr	CaCO	CaSO	OT

Point Count

--	--	--	--	--	--	--	--	--	--

 Point Count By:

--	--	--	--

Point Count Total: _____

EM#: 953232 Client Sample #: 1B

Sub-Part Percent	A	B	C	D	E
ASBESTOS FIBERS	100				
CHRYSOTILE					
AMOSITE					
CROCIDOLITE					
TREMOLITE-ACTINOLITE					
ANTHOPHYLLITE					
TOTAL ASBESTOS	0				
NON-ASBESTOS FIBERS	90				
NON-FIBROUS CONSTITUENTS	10				

PART: Physical Description:
gray fibrous insulation

Fibr	Mi	Pe	Gr	CaCO	CaSO	OT

Point Count

--	--	--	--	--	--	--	--	--	--

 Point Count By:

--	--	--	--

Point Count Total: _____

ANALYZED BY: ms DATE ANALYZED: 3/22/05

BASIC SCOPE CAL: 3/22/05 10:15 AM
(record on first analysis form in series)

RESERVOIRS ENVIRONMENTAL SERVICES, INC.
 PLM ASBESTOS ANALYSIS - SHORT REPORT

DUE DATE: 3/23 - 3/25
 DUE TIME: 10:30 A

RES#: 114158
 EM#: 953233

Storage Box#: 3/22/05
 Client Sample #: 1c

Sub-Part: Percent	A	B	C	D	E
ASBESTOS FIBERS	100				
CHRYSOTILE					
AMOSITE					
CROCIDOLITE					
TREMOLITE-ACTINOLITE					
ANTHOPHYLLITE					
TOTAL ASBESTOS:	0				
NON-ASBESTOS FIBERS	90				
NON-FIBROUS CONSTITUENTS	10				

PART:	Physical Description:	Fibr	Mi	Pe	Gr	CaCO	CaSO	OT
A	gray fibrous insulation							
B								
C								
D								
E								

Point Count: [] [] [] [] [] [] [] [] [] []
 Point Count By:

Point Count Total:

EM#: 953234 Client Sample #: 2A

Sub-Part: Percent	A	B	C	D	E
ASBESTOS FIBERS	1	2	37	60	
CHRYSOTILE			1-5		
AMOSITE					
CROCIDOLITE					
TREMOLITE-ACTINOLITE					
ANTHOPHYLLITE					
TOTAL ASBESTOS:	0	0	5	0	
ION-ASBESTOS FIBERS		90		15	
ION-FIBROUS CONSTITUENTS	10	10	95	85	

ART:	Physical Description:	Fibr	Mi	Pe	Gr	CaCO	CaSO	OT
A	white textured paint							
B	white tape							
C	white joint compound							
D	white / tan drywall							

Point Count: 5/100 | 3/100 | 4/100 | 2/100 | [] [] [] [] [] [] [] [] [] []
 Point Count By: MS 3/24/05

Point Count Total:

14/400 = 3.5%

ANALYZED BY: MS DATE ANALYZED: 3/24/05

BASIC SCOPE CAL: 3/22/05 10:15 AM
 (record on first analysis form in series)

RESERVOIRS ENVIRONMENTAL SERVICES, INC.
PLM ASBESTOS ANALYSIS - SHORT REPORT

DUE DATE: 3/23-3/25
DUE TIME: 10:20 A

RES#: 174158
EM#: 953235

Storage Box#: 3/22/05
Client Sample #: 213

Sub-Part Percent	A	B	C	D	E
ASBESTOS FIBERS	3	37	60		
CHRYSOTILE		1-5			1
AMOSITE					
CROCIDOLITE					
TREMOLITE-ACTINOLITE					
ANTHOPHYLLITE					
TOTAL ASBESTOS:	0	4	0		
NON-ASBESTOS FIBERS	90	48	15		
NON-FIBROUS CONSTITUENTS	10	96	85		

PART:	Physical Description:	Fibr	Mi	Pe	Gr	CaCO	CaSO	OT
A	white tape							
B	white joint comp. w/ white textured pt.							
C	white pan dry wall							
D								
E								

Point Count:

0/w	4/w	0/w	1/w		
-----	-----	-----	-----	--	--

 Point Count By: msj
 SPLIT - 90% sample returned to EPA Point Count Total: 5/400 = 1.25%

EM#: 953236 Client Sample #: 2C

Sub-Part Percent	A	B	C	D	E
ASBESTOS FIBERS	3	37	60		
CHRYSOTILE		1-5			
AMOSITE					
CROCIDOLITE					
TREMOLITE-ACTINOLITE					
ANTHOPHYLLITE					
TOTAL ASBESTOS:	0	3	0		
ION-ASBESTOS FIBERS	90	48	15		
ION-FIBROUS CONSTITUENTS	10	97	85		

ART: RCS

ART:	Physical Description:	Fibr	Mi	Pe	Gr	CaCO	CaSO	OT
A	white tape							
B	white joint compound w/ white text. pt.							
C	white pan dry wall							

Point Count:

0/w	3/w	2/w	2/w		
-----	-----	-----	-----	--	--

 Point Count By: msj
 Point Count Total: 7/400 = 1.75%

ANALYZED BY: msj DATE ANALYZED: 3/21/05 BASIC SCOPE CAL: 3/22/05 10:15 AM
 (record on first analysis form in series)

RESERVOIRS ENVIRONMENTAL SERVICES, INC.
PLM ASBESTOS ANALYSIS - SHORT REPORT

DUE DATE: 3/23-3/25
DUE TIME: 10:20 A

RES#: 174158
EM#: 953237

Storage Box#: 3/22/05
Client Sample #: 2D

Sub-Part Percent	A	B	C	D	E
ASBESTOS FIBERS	3	37	60		
CHRYSOTILE		1-5			1
AMOSITE					
CROCIDOLITE					
TREMOLITE-ACTINOLITE					
ANTHOPHYLLITE					
TOTAL ASBESTOS:	0	4	0		
NON-ASBESTOS FIBERS	90	76	85		
NON-FIBROUS CONSTITUENTS	10	96	15		

PART: Physical Description:

A	B	C	D	E
<u>white tape</u>	<u>white joint compound w/ wh. text. pt.</u>	<u>white / tan drywall</u>		
Fibr Mi Pe Gr CaCO CaSO OT	Fibr Mi Pe Gr CaCO CaSO OT	Fibr Mi Pe Gr CaCO CaSO OT		

Point Count: 2/100 | 3/100 | 6/100 | 2/100 | Point Count By: ms

Point Count Total: 14/400 = 3.5%

EM#: 953238 Client Sample #: 2E

Sub-Part Percent	A	B	C	D	E
ASBESTOS FIBERS	3	37	60		
CHRYSOTILE		1-5			
AMOSITE					
CROCIDOLITE					
TREMOLITE-ACTINOLITE					
ANTHOPHYLLITE					
TOTAL ASBESTOS:	0	3	0		
ION-ASBESTOS FIBERS	90	76	18		
ION-FIBROUS CONSTITUENTS	10	95	82		

ART: Physical Description:

A	B	C	D	E
<u>white tape</u>	<u>white joint comp. w/ wh. text. pt.</u>	<u>white / tan drywall</u>		
Fibr Mi Pe Gr CaCO CaSO OT	Fibr Mi Pe Gr CaCO CaSO OT	Fibr Mi Pe Gr CaCO CaSO OT		

Point Count: 1/100 | 1/100 | 2/100 | 3/100 | Point Count By: ms

Point Count Total: 7/400

ANALYZED BY: ms DATE ANALYZED: 3/22/05

BASIC SCOPE CAL- 3/22/05 10:15 am
(record on first analysis form in series)

RESERVOIRS ENVIRONMENTAL SERVICES, INC.
 PLM ASBESTOS ANALYSIS - SHORT REPORT

DUE DATE: 3/23-3/25
 DUE TIME: 10:20 A

RES#: 114158
 EM#: 953239

Storage Box#: 3/22/05
 Client Sample #: 2F

Sub-Part Percent	A	B	C	D	E
ASBESTOS FIBERS	3	37	60		
CHRYSOTILE		1-5			1
AMOSITE					
CROCIDOLITE					
TREMOLITE-ACTINOLITE					
ANTHOPHYLLITE					
TOTAL ASBESTOS:	0	4	0		
NON-ASBESTOS FIBERS	90		12		
NON-FIBROUS CONSTITUENTS	10	96	88		

PART:	Physical Description:	Fibr	Mi	Pe	Gr	CaCO	CaSO	OT
A	white tape							
B	white joint comp. w/ wh. text. paint							
C	white / Tan drywall							
D								
E								

Point Count: 7/100 | 9/100 | 2/100 | 9/100 | | | | |
 Point Count By: *ms*
 Point Count Total: 15/400

EM#: 953240 Client Sample #: 2G

Sub-Part Percent	A	B	C	D	E
ASBESTOS FIBERS	3	37	60		
CHRYSOTILE		1-5			
AMOSITE					
CROCIDOLITE					
TREMOLITE-ACTINOLITE					
ANTHOPHYLLITE					
TOTAL ASBESTOS:	0	3	0		
NON-ASBESTOS FIBERS	90		15		
NON-FIBROUS CONSTITUENTS	10	97	85		

PART:	Physical Description:	Fibr	Mi	Pe	Gr	CaCO	CaSO	OT
A	white tape							
B	white joint comp. w/ wh. text. paint							
C	white / Tan drywall							

Point Count: 2/100 | 1/100 | 1/100 | 1/100 | | | | |
 Point Count By: *ms*
 Point Count Total: 5/400

ANALYZED BY: *ms* DATE ANALYZED: 3/22/05 BASIC SCOPE CAL: 3/22/05 10:15 AM
 (record on first analysis form in series)

RESERVOIRS ENVIRONMENTAL SERVICES, INC.
 PLM ASBESTOS ANALYSIS - SHORT REPORT

DUE DATE: 3/23 - 3/25
 DUE TIME: 10:20 A

RES#: 114158
 EMA#: 953241

Storage Box#: 3/22/05
 Client Sample #: 3A

Sub-Part Percent	A	B	C	D	E
ASBESTOS FIBERS	3	37	60		
CHRYSOTILE		1-5			
AMOSITE					
CROCIDOLITE					
TREMOLITE-ACTINOLITE					
ANTHOPHYLLITE					
TOTAL ASBESTOS:	6	4	0		
NON-ASBESTOS FIBERS	96	72	15		
NON-FIBROUS CONSTITUENTS	10	96	85		

PART:	Physical Description:	Fibr	Mi	Pe	Gr	CaCO	CaSO	OT
A	white tape							
B	white joint comp. w/ wh. text. paint							
C	white / tan drapery							
D								
E								

Point Count:

3/100	6/100	2/100	6/100			
-------	-------	-------	-------	--	--	--

 Point Count By: ms
 Point Count Total: 17/400

EMA#: 953242 Client Sample #: 3B

Sub-Part Percent	A	B	C	D	E
ASBESTOS FIBERS	3	37	60		
CHRYSOTILE		1-5			
AMOSITE					
CROCIDOLITE					
TREMOLITE-ACTINOLITE					
ANTHOPHYLLITE					
TOTAL ASBESTOS:	0	5	0		
NON-ASBESTOS FIBERS	90	75	18		
NON-FIBROUS CONSTITUENTS	10	95	82		

ART: Physical Description:

ART:	Physical Description:	Fibr	Mi	Pe	Gr	CaCO	CaSO	OT
A	white tape							
B	white joint comp. w/ wh. text. pt.							
C	white / tan dry wall							

Point Count:

3/100	4/100	4/100	3/100			
-------	-------	-------	-------	--	--	--

 Point Count By: ms
 Point Count Total: 14/400

ANALYZED BY: ms DATE ANALYZED: 3/22/05 BASIC SCOPE CAL: 3/22/05 10:15 AM
 (record on first analysis form in series)

RESERVOIRS ENVIRONMENTAL SERVICES, INC.
 PLM ASBESTOS ANALYSIS - SHORT REPORT

DUE DATE: 3/23-3/25
 DUE TIME: 10:20 A

RES#: 114158
 EM#: 953243

Storage Box#: 3/22/05
 Client Sample #: 3C

Sub-Part Percent	A	B	C	D	E
ASBESTOS FIBERS	3	37	60		
CHRYSOTILE		1-5			1
AMOSITE					
CROCIDOLITE					
TREMOLITE-ACTINOLITE					
ANTHOPHYLLITE					
TOTAL ASBESTOS:	0	3	0		
NON-ASBESTOS FIBERS	90	40	12		
NON-FIBROUS CONSTITUENTS	10	97	88		

PART:	Physical Description:	Fibr	Mi	Pe	Gr	CaCO	CaSO	OT
A	white tape							
B	white joint comp. w/ white paint							
C	white / tan drywall							
D								
E								

no apparent sand grit part. id pt.

Point Count

5/100	3/100	2/100	5/100			
-------	-------	-------	-------	--	--	--

Point Count By: MS

Point Count Total: 15/400

EM#: 953244 Client Sample #: 3D

Sub-Part Percent	A	B	C	D	E
ASBESTOS FIBERS	3	37	60		
CHRYSOTILE		1-5			
AMOSITE					
CROCIDOLITE					
TREMOLITE-ACTINOLITE					
ANTHOPHYLLITE					
TOTAL ASBESTOS:	0	4	0		
NON-ASBESTOS FIBERS	90	40	15		
NON-FIBROUS CONSTITUENTS	10	96	85		

PART:	Physical Description:	Fibr	Mi	Pe	Gr	CaCO	CaSO	OT
A	white tape							
B	white joint comp. w/ white tape pt.							
C	white / tan drywall							

Point Count

8/100	8/100	14/100	5/100			
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Point Count By: MS

Point Count Total: 30/400

ANALYZED BY: MS DATE ANALYZED: 3/22/05 BASIC SCOPE CAL: 3/22/05 10:15 am
 (record on first analysis form in series)

RESERVOIRS ENVIRONMENTAL SERVICES, INC.
PLM ASBESTOS ANALYSIS - SHORT REPORT

DUE DATE: 3/23-3/25
DUE TIME: 10:20 A

RES#: 114158
EM#: 953245

Storage Box#: 3/22/05
Client Sample #: 3E

Sub-Part Percent	A	B	C	D	E
ASBESTOS FIBERS	3	37	60		
CHRYSOTILE		1-5			1
AMOSITE					
CROCIDOLITE					
TREMOLITE-ACTINOLITE					
ANTHOPHYLLITE					
TOTAL ASBESTOS:	0	5	0		
NON-ASBESTOS FIBERS	90	1	15		
NON-FIBROUS CONSTITUENTS	10	94	85		

PART:	Physical Description:	Fibr	Mi	Pe	Gr	CaCO	CaSO	OT
A	white tape							
B	white joint comp. w/ white paint							
C	white / tan drywall							
D								
E								

Point Count: 3/100 10/100 5/100 5/100
Point Count By: ms
Point Count Total: 25/400

EM#: 953246 Client Sample #: 4A

(RCD)

Sub-Part Percent	A	B	C	D	E
ASBESTOS FIBERS	0				
CHRYSOTILE					
AMOSITE					
CROCIDOLITE					
TREMOLITE-ACTINOLITE					
ANTHOPHYLLITE					
TOTAL ASBESTOS:	0				
ION-ASBESTOS FIBERS	90				
ION-FIBROUS CONSTITUENTS	10				

ART:	Physical Description:	Fibr	Mi	Pe	Gr	CaCO	CaSO	OT
	gray fibrous insulation							

Point Count:
Point Count By:
Point Count Total:

ANALYZED BY: ms DATE ANALYZED: 3/22/05 BASIC SCOPE CAL: 3/22/05 10:15 AM
(record on first analysis form in series)

RESERVOIRS ENVIRONMENTAL SERVICES, INC.
 PLM ASBESTOS ANALYSIS - SHORT REPORT

DUE DATE: 3/23 - 3/25
 DUE TIME: 10:20 A

RES#: 114158
 EM#: 953247

Storage Box#: 3/22/05
 Client Sample #: 4B

Sub-Part Percent	A	B	C	D	E
ASBESTOS FIBERS	100				
CHRYSOTILE					1
AMOSITE					
CROCIDOLITE					
TREMOLITE-ACTINOLITE					
ANTHOPHYLLITE					
TOTAL ASBESTOS:	0				
NON-ASBESTOS FIBERS	90				
NON-FIBROUS CONSTITUENTS	10				

PART: Physical Description:

A	B	C	D	E
<u>gray fibrous insulation</u>				

Fibr	Mi	Pe	Gr	CaCO	CaSO	OT

Point Count

--	--	--	--	--	--	--	--

 Point Count By:

--	--	--	--	--	--	--	--

Point Count Total: _____

EM#: 953248 Client Sample #: SA

Sub-Part Percent	A	B	C	D	E
ASBESTOS FIBERS	25	35	40		
CHRYSOTILE					
AMOSITE					
CROCIDOLITE					
TREMOLITE-ACTINOLITE					
ANTHOPHYLLITE					
TOTAL ASBESTOS:	0	0	0		
NON-ASBESTOS FIBERS	12	10	75		
NON-FIBROUS CONSTITUENTS	88	90	25		

ART: Physical Description:

A	B	C	D	E
<u>Red / tan grit shingle</u>				
<u>gray / red grit shingle</u>				
<u>Black felt</u>				

Fibr	Mi	Pe	Gr	CaCO	CaSO	OT

Point Count

--	--	--	--	--	--	--	--

 Point Count By:

--	--	--	--	--	--	--	--

Point Count Total: _____

ANALYZED BY: ms DATE ANALYZED: 3/22/05

BASIC SCOPE CAL. 3/22/05 10:15 AM
 (record on first analysis form in series)

RESERVOIRS ENVIRONMENTAL SERVICES, INC.
 PLM ASBESTOS ANALYSIS - SHORT REPORT

DUE DATE: 3/23 - 3/25
 DUE TIME: 10:20 A

RES#: 114158
 ENR#: 953249

Storage Box#: 3/22/05
 Client Sample #: SB

Sub-Part Percent:	A	B	C	D	E
ASBESTOS FIBERS	3	38	57		
CHRYBOTILE					1
AMOSITE					
CROCIDOLITE					
TREMOLITE-ACTINOLITE					
ANTHOPHYLLITE					
TOTAL ASBESTOS:	0	0	0		
NON-ASBESTOS FIBERS		10	75		
NON-FIBROUS CONSTITUENTS	100	90	25		

PART:	Physical Description:	Fibr	Mi	Pe	Gr	CaCO	CaSO	OT
A	Blade tax mastic							
B	Red Glass and shingle							
C	Blade felt							
D								
E								

Point Count:

--	--	--	--	--	--	--	--	--

 Point Count By:

--	--	--	--	--	--	--	--	--

Point Count Total: _____

ENR#: 9532 Client Sample #: _____

Sub-Part Percent:	A	B	C	D	E
ASBESTOS FIBERS					
CHRYBOTILE					
AMOSITE					
CROCIDOLITE					
TREMOLITE-ACTINOLITE					
ANTHOPHYLLITE					
TOTAL ASBESTOS:					
NON-ASBESTOS FIBERS					
NON-FIBROUS CONSTITUENTS					

ART:	Physical Description:	Fibr	Mi	Pe	Gr	CaCO	CaSO	OT

Point Count:

--	--	--	--	--	--	--	--	--

 Point Count By:

--	--	--	--	--	--	--	--	--

Point Count Total: _____

ANALYZED BY: ms DATE ANALYZED: 3/22/05

BASIC SCOPE CAL: 3/22/05 10:15 AM
 (record on first analysis form in series)

GRAVIMETRIC REDUCTION DATA SHEET

Reservoirs
114159

Lab Name:
Lab Job No.:

100%
100%

EPA Sample Index Number	Lab Sample Number	Sample Ashing						Acid Grinding followed by Filtration				Overall Grav. Reduction Ratio (GRR)	TEM Visual Estimate (Range %)	Final Calculated Percent Range in Original Solids
		Weight (g) to the nearest 0.01g			GRR from Ashing			Weight (g) to the nearest 0.01g		GRR from Acid grinding				
		Crucible + Sample	Original Sample Mass	Crucible + Ashed Sample	Ashed residue	GRR from Ashing	Filtrate + Residue	Filtrate Residue						
5707-2A	953234	16.5627	16.9039	16.2512	16.7611	16.2394		.0154	.0542	.0689			#VALUE!	#VALUE!
5707-2B	953235	15.8484	16.0241	17.285	16.0096	16.166		.0154	.0488	.0334			#VALUE!	#VALUE!
5707-2C	953236	16.8198	17.0281	16.933	17.0076	16.28		.0156	.0613	.0457			#VALUE!	#VALUE!
5707-2D	953237	17.3115	17.4181	17.066	17.4950	16.935		.0155	.0419	.0264			#VALUE!	#VALUE!
5707-2E	953238	16.7732	16.9444	17.212	16.9719	16.87		.0157	.0992	.0725			#VALUE!	#VALUE!
5707-2F	953239	16.8176	17.0552	16.876	17.0591	17.405		.0194	.1536	.1362			#VALUE!	#VALUE!
5707-2G	953240	17.4210	17.573	17.553	17.526	17.118		.0192	.0920	.0325			#VALUE!	#VALUE!
													#VALUE!	#VALUE!
													#VALUE!	#VALUE!
													#VALUE!	#VALUE!
													#VALUE!	#VALUE!
													#VALUE!	#VALUE!
													#VALUE!	#VALUE!
													#VALUE!	#VALUE!

Paul D. DeRosa

Reservoirs Environmental, Inc.
TEM asbestos structure count
NYLAP # 101896 TEH # 30-9015

Laboratory name:	RESI
Instrument	JEOL 100 C CX
Voltage (KV)	100
Magnification	20 KX 10 KX
Grid opening area (mm ²)	.0110
Scale: 1L =	0.22
Scale: 1D =	0.056
Primary filter area (mm ²)	388
Secondary Filter Area (mm ²)	201

Client Sample Number:	
Sample Type (A=Air, D=Dust):	Bs 1k
Air volume (L) or dust area (cm ²):	3-18-05
Date received by lab:	11/15/8
Lab Job Number:	See Below
Lab Sample Number:	

Analyzed by:	PDL
Analysis date:	8-16-05
Method (D=Direct, I=Indirect):	TEM - Grav.
Counting rules (I = ISO 10312, A = AHERA, etc):	
Grid storage location:	Month Analyzed
Secondary Prep:	
Fraction of primary filter used:	
Total resuspension volume (ml):	
Volume filtered for secondary prep (ml):	
QA Type (Net QA, Resonant Scatter, Resonant Diff, Resprep, Verified Anal, Lab Blank)	

Grid	Grid Opening	Structure Type	No. of Structures		Dimensions			Identification	Mineral Class (see below)			Sketch	Photo	EDS	
			Primary	Total	Length	Width	LA		OA	C	NAMI				
EM	953234				40-50%			chrysotile							
EM	953235				15-25%			chrysotile							
EM	953236				20-30%			chrysotile							
EM	953237				50-60%			chrysotile							
EM	953238				30-40%			chrysotile							
EM	953239				50-40%			chrysotile							
EM	953240				40-50%			chrysotile							

Bill D. Standa



Reservoirs Environmental, Inc.

2059 Bryant St. Denver, CO 80211
(303) 964-1986 Fax (303) 477-4275 Toll Free (866) RESI-ENV

Environmental Quality Management

Final Report

August 19, 2005

RES 118328

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Chain of Custody and Count Sheets	Appendix B



Reservoirs Environmental, Inc.

2059 Bryant St. Denver, CO 80211
(303) 964-1986 Fax (303) 477-4275 Toll Free (866) RESI-ENV

August 19, 2005

Laboratory Code: RES
Subcontract Number: NA
Laboratory Report: RES 118328
Project Description: USEPA Building
Demolition Evaluation
Project

John Kominsky
Environmental Quality Management
1800 Carillon Blvd.
Cincinnati OH 45240

Dear Mr. Kominsky,

Reservoirs Environmental, Inc. is an analytical laboratory accredited for the analysis of Industrial Hygiene and Environmental matrices by the National Voluntary Laboratory Accreditation Program (NVLAP), Lab Code # 101896 and the American Industrial Hygiene Association (AIHA), Lab ID 101533 - Accreditation Certificate #480. This laboratory is currently proficient in both Proficiency Testing and PAT programs respectively.

Reservoirs Environmental, Inc. has analyzed the following samples for asbestos content as per your request. The analysis has been completed in general accordance with the appropriate methodology as stated in the attached analysis table. The results have been submitted to your office.

RES 118328 is the job number assigned to this study. This report is considered highly confidential and the sole property of the customer. Reservoirs Environmental, Inc. will not discuss any part of this study with personnel other than those of the client. The results described in this report only apply to the samples analyzed. This report must not be used to claim endorsement of products or analytical results by NVLAP or any agency of the U.S. Government. This report shall not be reproduced except in full, without written approval from Reservoirs Environmental, Inc. Samples will be disposed of after sixty days unless longer storage is requested. If you have any questions about this report, please feel free to call 303-964-1986.

Sincerely,



Jeanne Spencer Orr
President



Reservoirs Environmental, Inc.

2059 Bryant St. Denver, CO 80211
(303) 964-1986 Fax (303) 477-4275 Toll Free (866) RESI-ENV

Analyst Signature Page

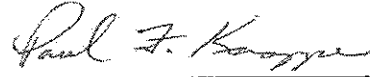
RES 118328

PLM Analyst:



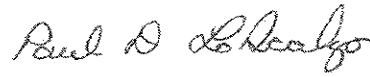
Richard S. Wegryzn

PLM Analyst:



Paul Knappe

TEM Analyst:



Paul D. LoScalzo



Reservoirs Environmental, Inc.

2059 Bryant St. Denver, CO 80211
(303) 964-1986 Fax (303) 477-4275 Toll Free (866) RESI-ENV

Case Narrative

RES 118328

Samples were relinquished to the laboratory in appropriately sealed containers. The customer Chain of Custody containing all client information is signed upon receipt, then transferred to Reservoirs Environmental, Inc Chain of Custody. The sample set was assigned a unique batch RES job number and EM sample number respectively. Client data information was entered into the Laboratory's Information Management System.

Samples were prepared in general accordance with EPA 600/R-93/116. The soil samples were dried in a drying oven then were examined by stereo microscopy at 6 to 60X magnification. The analyst determined the general description of the sample and picked through the soil particles in the stereo microscope. The analyst then prepared multiple slides of each soil in the appropriate refractive index oil for examination in the polarized light microscope. The optical properties of the minerals present were used to identify the type of asbestos present in the sample. A combination of the amount of asbestos observed in the stereo microscope and the amount of asbestos observed in the slide preparations was compared to known standards, reference charts and analyst experience to define a range of asbestos observed in the soil. Trace amounts of asbestos were detected by PLM in some of these samples. Trace, for these analyses, is defined as at least one bundle detected large enough to observe optical properties but not enough asbestos present to be quantified. A trace result is well below 1%. The method provides a calibrated visual estimate, not an exact result. PLM results are presented in Table I.

TEM soil samples were prepared in general accordance with EPA 600/R-93/116. The soil samples were dried in a drying oven overnight then coned and quartered. One quarter of the original sample was ground with mortar and pestle to disaggregate any clumps and thoroughly mix the soil. Approximately one gram of the ground sample was weighed into a crucible and ashed overnight. The sample was reweighed. Acid was added to the ashed soil to dissolve any calcareous material. The residue was washed with filtered DI water onto a weighed polycarbonate filter. The gravimetric reduction data is presented in Table III.

Approximately 100mg of treated soil was dispersed in 100ml filtered DI water. Aliquots were deposited on 0.22 μ m MCE filters and prepared for analysis by TEM. Filter preparations were analyzed by TEM. The lengths and widths of all asbestos fibers detected were recorded. The mass of asbestos in the soil was calculated based on the density of the asbestos mineral if present.

The size population of asbestos fibers associated with this project is not known. If the population were known, the analytical sensitivity would have been calculated using the average fiber mass. The analytical sensitivity for this study has been calculated using one PCM equivalent amphibole fiber (5 μ m length and 0.25 μ m diameter) detected. The actual sensitivity could be higher or lower than this calculation. This calculation is more conservative than using the smallest fiber that would have been counted (0.5 μ m length and 0.05 μ m width, chrysotile fiber). TEM results are presented in Table II.

References:

EPA 600/R-93/116, Method for the Determination of Asbestos in Bulk Building Materials

RESERVOIRS ENVIRONMENTAL, INC.

NVLAP Accredited Laboratory # 101896
 TDH Licensed Laboratory # 30-0136

TABLE I PLM BULK ANALYSIS, PERCENTAGE COMPOSITION BY VOLUME

RES Job Number: RES 118328
 Client: Environmental Quality Management
 Client Project Description: USEPA Building Demolition Evaluation Project
 Date Samples Received: July 25, 2005
 Date Samples Collected: July 21, 2005
 Analysis Type: PLM, EPA 600/R-93/116
 Turnaround: Standard
 Date Analyzed: August 15, 2005

Client Sample Number	Lab ID Number	L A Y E R	Physical Description	Sub Part (%)	Asbestos Content		Non-Asbestos Fibers Components (%)	Non-Fibrous Components (%)
					Mineral	Visual Estimate (%)		
3602-S-E-A-1	EM 986149	A	Brown soil	100	Chrysotile Amosite	TR TR	TR	100
3602-S-C-A-2	EM 986150	A	Brown soil	100	Chrysotile Amosite	TR TR	TR	100
3602-S-W-A-3	EM 986151	A	Brown soil	100	Chrysotile Amosite	TR TR	TR	100
3603-S-E-A-1	EM 986152	A	Brown soil	100	Chrysotile Amosite	TR TR	TR	100
3603-S-E-A-2	EM 986153	A	Brown soil	100	Chrysotile Amosite	TR TR	TR	100
3603-S-W-A-3	EM 986154	A	Brown soil	100	Chrysotile Amosite	TR TR	TR	100
3607-S-E-A-1	EM 986155	A	Brown soil	100	Chrysotile Amosite	TR TR	TR	100
3607-S-C-A-2	EM 986156	A	Brown soil	100	Chrysotile Amosite	TR TR	TR	100

Quality verified by
 Date: 8/15/05
 118328-0009

RESERVOIRS ENVIRONMENTAL, INC.

NVLAP Accredited Laboratory # 101896
TDH Licensed Laboratory # 30-0136

TABLE I PLM BULK ANALYSIS, PERCENTAGE COMPOSITION BY VOLUME

RES Job Number: **RES 118328**
 Client: **Environmental Quality Management**
 Client Project Description: **USEPA Building Demolition Evaluation Project**
 Date Samples Received: **July 25, 2005**
 Date Samples Collected: **July 21, 2005**
 Analysis Type: **PLM, EPA 600/R-93/116**
 Turnaround: **Standard**
 Date Analyzed: **August 15, 2005**

Client Sample Number	Lab ID Number	L A Y E R	Physical Description	Sub Part (%)	Asbestos Content		Non-Asbestos Fibers Components (%)	Non-Fibrous Components (%)
					Mineral	Visual Estimate (%)		
3607-S-W-A-3	EM 986157	A	Brown soil	100	Chrysotile	TR	TR	100
3608-S-E-A-1	EM 986158	A	Brown soil	100	Amosite	TR	TR	97
3608-S-E-A-2	EM 986159	A	Brown soil	100	Chrysotile	ND	3	97
3608-S-W-A-3	EM 986160	A	Brown soil	100	Amosite	TR	TR	100
P-S-N-A-3	EM 986161	A	Brown soil	100	Chrysotile	TR	10	90
P-S-E-A-1	EM 986162	A	Brown soil	100	Amosite	ND	15	85
P-S-S-A-4	EM 986163	A	Brown soil	100	Chrysotile	ND	15	85
P-S-W-A-2	EM 986164	A	Brown soil	100	Amosite	ND	5	95

Digitally
Signed by
Shay
Gardien
Date: 2005.08.19
17:29:05
0600

RESERVOIRS ENVIRONMENTAL, INC.

NVLAP: #101896; TDH: #30-0015

TABLE IIA TEM SOIL SAMPLE ANALYTICAL RESULTS

RES Job Number: RES 118328
 Client: Environmental Quality Management
 Client Project Description: USEPA Building Demolition Evaluation Project
 Date Samples Received: July 25, 2005
 Date Samples Collected: July 21, 2005
 Analysis Type: TEM, Soil, EPA-LIBBY-03 (Revision 1)
 Turnaround: Standard
 Date Samples Analyzed: July 29, 2005

Client ID Number	Lab ID Number	Mass of Suspended Soil (mg)	Aliquot Deposited on Filter (mL)	Reduction Ratio	Total Suspension (mL)	Total Number of Asbestos Structures Detected	Analytical Sensitivity Structures (s/g)	Analytical Sensitivity Mass (%)*	Total Asbestos Concentration (%)
3602-S-E-A-1	EM 986149	98.1	0.2	0.94	100	1	8.75E+06	0.001	BAS
3602-S-C-A-2	EM 986150	106.0	0.2	0.96	100	1	8.27E+06	0.001	BAS
3602-S-W-A-3	EM 986151	102.2	0.2	0.94	100	1	8.40E+06	0.001	BAS
3603-S-E-A-1	EM 986152	106.1	0.2	0.96	100	3	8.27E+06	0.001	BAS
3603-S-E-A-2	EM 986153	101.6	0.2	0.96	100	1	8.63E+06	0.001	BAS
3603-S-W-A-3	EM 986154	108.9	0.2	0.96	100	1	8.05E+06	0.001	BAS
3607-S-E-A-1	EM 986155	108.2	0.2	0.96	100	2	8.11E+06	0.001	0.005
3607-S-C-A-2	EM 986156	98.1	0.2	0.96	100	2	8.94E+06	0.001	BAS
3607-S-W-A-3	EM 986157	105.9	0.2	0.95	100	ND	8.20E+06	0.001	BAS
3608-S-E-A-1	EM 986158	105.5	0.2	0.97	100	ND	8.40E+06	0.001	BAS
3608-S-E-A-2	EM 986159	101.0	0.2	0.96	100	ND	8.68E+06	0.001	BAS
3608-S-W-A-3	EM 986160	100.8	0.2	0.95	100	30	8.61E+06	0.001	BAS
P-S-N-A-3	EM 986161	101.5	0.2	0.89	100	2	8.01E+06	0.001	BAS
P-S-E-A-1	EM 986162	103.0	0.2	0.92	100	ND	8.16E+06	0.001	BAS
P-S-S-A-4	EM 986163	100.4	0.2	0.89	100	ND	8.10E+06	0.001	BAS
P-S-W-A-2	EM 986164	103.1	0.2	0.89	100	ND	7.89E+06	0.001	BAS

ND = None Detected

BAS = Below Analytical Sensitivity

Aliquot = Amount of suspension redeposited in lab on 201 mm filter.

Suspension created from original filter and rinsing cassette with filtered de-ionized water.

* Mass calculation is based on smallest amphibole structure that would have been detected by PCM Equivalent (5.0µm x 0.25µm).

This number may be bias based on actual fiber population. Dimensions of fiber population if present are not known.

Digitally signed by Gary G. Gantman
 DN: cn=Gantman, o=RESERVOIRS ENVIRONMENTAL, INC., email=gantman@reservoirsenv.com, c=US

DATA QA

RESERVOIRS ENVIRONMENTAL SERVICES, INC.

NVLAP: #101896; TDH: #30-0015

TABLE IIB SUMMARY OF ANALYTICAL DATA

RES Job Number: RES 118328
 Client: Environmental Quality Management
 Client Project Description: USEPA Building Demolition Evaluation Project
 Date Samples Received: July 25, 2005
 Date Samples Collected: July 21, 2005
 Analysis Type: TEM, Soil, EPA 600/R-93/116
 Turnaround: Standard
 Date Samples Analyzed: July 29, 2005

Client ID Number	Lab ID Number	Asbestos Mineral	Asbestos Structure Types*			Structures >5 Microns in Length	**Excluded Structures	Asbestos Structures for Concentration
			Fibers	Bundles	Clusters			
3602-S-E-A-1	EM 986149	Chrysotile	1	0	0	0	0	1
3602-S-C-A-2	EM 986150	Chrysotile	1	0	0	0	0	1
3602-S-W-A-3	EM 986151	Chrysotile	0	0	1	0	0	1
3603-S-E-A-1	EM 986152	Chrysotile	2	0	0	0	0	3
3603-S-E-A-2	EM 986153	Chrysotile	1	0	0	0	0	1
3603-S-W-A-3	EM 986154	Chrysotile	0	0	1	1	0	1
3607-S-E-A-1	EM 986155	Chrysotile	1	0	0	0	0	2
		Amosite	1	0	0	1	0	1
3607-S-C-A-2	EM 986156	Chrysotile	1	0	0	0	0	1
		Anthophyllite	1	0	0	0	0	1
3607-S-W-A-3	EM 986157	ND	0	0	0	0	0	0
3608-S-E-A-1	EM 986158	ND	0	0	0	0	0	0
3608-S-E-A-2	EM 986159	ND	0	0	0	0	0	0
3608-S-W-A-3	EM 986160	Chrysotile	29	1	0	0	0	30
P-S-N-A-3	EM 986161	Amosite	1	0	0	0	0	2
		Anthophyllite	1	0	0	0	0	2
P-S-E-A-1	EM 986162	ND	0	0	0	0	0	0
P-S-S-A-4	EM 986163	ND	0	0	0	0	0	0
P-S-W-A-2	EM 986164	ND	0	0	0	0	0	0

*See Analytical Procedure for definitions

ND = None Detected

TABLE III GRAVIMETRIC REDUCTION DATA SHEET

Lab Name: Reservoirs
 Lab Job No.: 118328

EPA Sample Index Number	Lab Sample Number	Sample Ashing										Acid Grinding followed by Filtration						Overall Grav. Reduction Ratio (GRR)
		Weight (g, to the nearest 0.01g)					GRR from Ashing					Weight (g, to the nearest 0.01g)			GRR from Acid grinding			
		Crucible	Crucible + Sample	Original Sample Mass	Crucible + Ashed Sample	Ashed residue	GRR from Ashing	Initials	Date	Filter + Dish	Filter + Dish + Residue	Filtered Residue	Initials	Date	Initials	Date		
3603-S-E-A-1	986149	9.50	10.54	1.04	10.48	0.88	0.94	JSO	7/26/05	0.01	0.89	0.88	1.00	JSO	7/27/05	0.94		
3603-S-C-A-2	986150	8.32	9.33	1.01	9.28	0.97	0.96	JSO	7/26/05	0.01	0.98	0.95	0.99	JSO	7/27/05	0.96		
3603-S-W-A-3	986151	8.34	9.36	1.02	9.31	0.97	0.94	JSO	7/26/05	0.01	0.97	0.96	0.99	JSO	7/27/05	0.94		
3603-S-E-A-1	986152	7.57	8.60	1.03	8.56	0.99	0.96	JSO	7/26/05	0.01	1.01	0.99	1.00	JSO	7/27/05	0.96		
3603-S-C-A-2	986153	8.49	9.51	1.03	9.48	0.99	0.96	JSO	7/26/05	0.01	1.00	0.98	1.00	JSO	7/27/05	0.96		
3603-S-W-A-3	986154	8.09	9.09	1.01	9.05	0.97	0.96	JSO	7/26/05	0.01	0.98	0.97	1.00	JSO	7/27/05	0.96		
3607-S-E-A-1	986155	8.42	9.44	1.02	9.40	0.98	0.96	JSO	7/26/05	0.01	0.99	0.98	1.00	JSO	7/27/05	0.96		
3607-S-C-A-2	986156	9.38	10.40	1.02	10.36	0.98	0.96	JSO	7/26/05	0.01	0.99	0.96	1.00	JSO	7/27/05	0.96		
3607-S-W-A-3	986157	5.71	6.73	1.02	6.68	0.96	0.95	JSO	7/26/05	0.01	0.98	0.97	1.01	JSO	7/27/05	0.95		
3608-S-E-A-1	986158	10.80	11.61	1.02	11.59	0.99	0.97	JSO	7/26/05	0.01	1.00	0.99	1.00	JSO	7/27/05	0.97		
3608-S-C-A-2	986159	9.38	10.40	1.02	10.35	0.98	0.96	JSO	7/26/05	0.01	0.98	0.98	1.00	JSO	7/27/05	0.96		
3608-W-A-3	986160	6.09	7.10	1.01	7.05	0.96	0.95	JSO	7/26/05	0.01	0.97	0.96	1.00	JSO	7/27/05	0.95		
P-S-N-A-3	986161	8.42	9.43	1.01	9.32	0.90	0.89	JSO	7/26/05	0.01	0.81	0.90	1.00	JSO	7/27/05	0.89		
P-S-E-A-1	986162	8.34	9.35	1.01	9.27	0.93	0.92	JSO	7/26/05	0.01	0.84	0.93	1.00	JSO	7/27/05	0.92		
P-S-S-A-4	986163	9.50	10.51	1.00	10.39	0.89	0.89	JSO	7/26/05	0.01	0.90	0.89	1.00	JSO	7/27/05	0.89		
P-S-W-A-2	986163	8.71	9.72	1.01	9.61	0.90	0.89	JSO	7/26/05	0.01	0.89	0.88	0.98	JSO	7/27/05	0.87		

Notes:

Calculations:

GRR from ashing = Ashed residue / Original Sample Mass

GRR from Acid grinding = Filtered Residue / Ashed residue

Overall Grav. Reduction Ratio (GRR) = GRR from Ashing X GRR from Acid grinding

Final Calculated Percent Range in Original Layer = TEM Visual Estimate (Range%) X Overall Grav. Reduction Ratio (GRR)

APPENDIX A

QC Results Summary

RES 118328

Quality Control Analyses were conducted in general accordance with Reservoirs Environmental, Inc's established program. Quality control samples are listed below. Sample Quality Control Data was acceptable within the laboratory's statistical acceptance / rejection criteria.

PLM QC Results Tally

Client Sample ID	REI EM Number	Layer	Original Count	QC Count
3602-S-C-A-2	986150	A	TR	TR
P-S-E-A-1	986162	A	ND	ND

TEM QC Results Tally

Client Sample ID	REI EM Number	Original Count	QC Count
3607-S-E-A-1	986155	2	2
3608-S-C-A-2	986159	ND	ND
3608-S-W-A-3	986160 Water Blank	ND	ND

RESERVOIRS ENVIRONMENTAL SERVICES, INC.
PLM ASBESTOS ANALYSIS - LAB BLANK/RECOUNT

LAB SAMPLE #: 986152

RES #: 118328

PREPARED BY: _____

DATE PREPARED: _____

ASBESTOS FIBERS	SUB-PART:	A	B	C	D
	PERCENT:	<u>100</u>	_____	_____	_____
CHRYSOPILE		<u>TR</u>	_____	_____	_____
AMOSITE		<u>TR</u>	_____	_____	_____
CROCIDOLITE		_____	_____	_____	_____
TREMOLITE-ACTINOLITE		_____	_____	_____	_____
ANTHOPHYLLITE		_____	_____	_____	_____
TOTAL ASBESTOS:		<u>TR</u>	_____	_____	_____

PART:	PHYSICAL DESCRIPTION:
<u>A</u>	<u>BROWN SOL</u>
<u>B</u>	_____
<u>C</u>	_____
<u>D</u>	_____

ORIGINAL ANALYZED BY: Rsn

DATE ANALYZED: 8/15/05

QC ANALYZED BY: [Signature]

DATE ANALYZED: 8/15/05

ORIGINAL RESULTS		
PART #	TYPE(S) ASBESTOS	% ASBESTOS
<u>A</u>	<u>change to amib TC</u>	<u>TR</u>
<u>B</u>	_____	_____
<u>C</u>	_____	_____
<u>D</u>	_____	_____
<u>E</u>	_____	_____
<u>F</u>	_____	_____
<u>G</u>	_____	_____

RESERVOIRS ENVIRONMENTAL SERVICES, INC.
PLM ASBESTOS ANALYSIS - LAB BLANK/RECOUNT

LAB SAMPLE #: 986162

RES #: 118328

PREPARED BY: _____

DATE PREPARED: _____

ASBESTOS FIBERS	SUB-PART:	A	B	C	D
	PERCENT:	<u>100</u>			
CHRYSOTILE					
AMOSITE					
CROCIDOLITE					
TREMOLITE-ACTINOLITE					
ANTHOPHYLLITE					
TOTAL ASBESTOS:		<u>0</u>			

PART:	PHYSICAL DESCRIPTION:
A	<u>AW Soil</u>
B	
C	
D	

ORIGINAL ANALYZED BY: *[Signature]*

DATE ANALYZED: 8/15/05

QC ANALYZED BY: *[Signature]*

DATE ANALYZED: 8/15/05

ORIGINAL RESULTS		
PART & %	TYPE(S) ASBESTOS	% ASBESTOS
A <u>100</u>		<u>0</u>
B		
C		
D		
E		
F		
G		

EQM Font Chaffee Soil
TEM Asbestos Structure Count for SCP EPA-LIBBY-03 (Soil by EPA 600)

Laboratory name	Reservoirs
Instrument	JEOL 100 CX
Voltage (kV)	100
Magnification	20KX
Grid opening area (mm ²)	0.011
Scale: 1L =	0.28
Scale: 1D =	0.056
Primary filter area (mm ²)	385
Gravimetric Reduction Ratio (GRR)	0.95
Category (Field, Rep., Dup., Blank)	Field
Primary filter pore size (µm)	0.22

EPA Sample Number	3808-S-C-A-2
Sample Type	Soil
Date received by lab	7/23/2005
Lab Job Number	118328
Lab Sample Number	008159
Number of grids prepared	3
Prepared by	JSC/JMH
Preparation date	7/24-28/05
EPA COC Number:	050111-115
Secondary filter pore size (µm)	0.22

Analyzed by	JSO
Analysis date	7/29/2005
Method (SOP)	EPA-LIBBY-03

Grid storage location	118328
-----------------------	--------

Mass of residue suspended (mg)	101
Volume of water (ml)	100
Volume applied to filter (ml)	0.2

QA Type (Not QA, Recount Same, Recount Diff, Re-prep, Verified Anal, Recount, Lab Blank)	
--	--

Grid	Grid Opening	Structure Type	No. of Structures		Dimensions			Mineral Class (see below)			Sketch/Comments			1 = yes, blank = no	
			Primary	Total	Length	Width	LA	OA	C	Sketch	Photo	EDS			
A	E3-6	RD													
	F4-1	RD													
	E2-6	RD													
	K4-1	RD													
	F5-3	RD													
B	G2-4	RD													
	F2-4	RD													
	E4-4	RD													
	F4-3	RD													
	F5-4	RD													

Prep. by: JSC/JMH; 7/24-28/05

F4-3, F5-4, F5-4

LA = Libby-type amphibole CA = Other (non-Libby type) amphibole C = Chrysotile

QC - RC D
Different
2005

EOM Fort Chaffee Soil
TEM Asbestos Structure Count for SOP EPA-LIBBY-03 (Set by EPA 600)

Laboratory Name	Reservoir
Instrument	JECO 156 CX
Method (CV)	100
Magnification	200X
Grid opening area (cm ²)	0.011
Scale: 11. b.	0.20
Scale: 1D #	0.056
Primary filter area (mm ²)	365
Counting Reduction Ratio (CRR)	NA
Category (Field, Rep., Dup., Blank)	Blank
Primary filter pore size (µm)	0.22

EPA Sample Number	38803-WA-3
Sample Type	Soil
Date received by lab	7/23/2001
Lab Job Number	118320
Lab Sample Number	00160 Wajer Blank
Number of grids prepared	3
Prepared by	JACKSON
Preparation date	7/24/2000
EPA CQC Number	06011-115
Secondary filter pore size (µm)	0.22

Analyzed by	HCO
Analysis date	7/23/2001
Method (SOP)	EPA-LIBBY-03

Grid storage location	118320
-----------------------	--------

Mass of residue suspended (mg)	
Volume of water (mL)	
Volume applied to filter (mL)	

CA Type (Per CA, Pencil Same, Pencil Ink, No-pen, Vertical Anal., Horizontal, Blank)	
--	--

Grid	Grid Opening	Structure Type	No. of Structures	Dimensions		Mineral Class (See Index)			Sketch/Comments	1 = yes, Blank = no	
				Length	Width	LA	CA	C		Sketch	Photo
A	E3-4	ND									
	F33	ND									
	H23	ND									
	H41	ND									
	H54	ND									
B	H64	ND									
	G6-1	ND									
	F5-3	ND									
	G5-3	ND									
	G5-1	ND									

LA = Libby-type amphibole CA = Other (non-Libby type) amphibole C = Crystalline

ACC - initial
K. S. S. S.

Reservoirs Environmental, Inc
National Voluntary Laboratory Accreditation Program, Lab Code #101896

Appendix B

Chain of Custody and Count Sheets

RESERVOIRS ENVIRONMENTAL, INC.

2055 Bryant St., Denver CO 80211

RES 118328

Due Date: 8/1/05

RES Job # _____

Due Time: 9:16am

Page _____ of _____

SAMPLES SUBMITTED BY:		INVOICE TO: (IF DIFFERENT)	
Company: <u>EQM</u>	Address: _____	Company: _____	Address: _____
Contact: <u>John Kaminsky</u>	Phone: _____	Fax: _____	Pager: _____
Contact: _____	Phone: _____	Fax: _____	Pager: _____
Project Number (include P.O. #): _____		First Data Distribution Event Address: _____	
Project Description/Location: <u>FT Chaffee - Soil</u>			

After Hours/Weekend CHARGE- Amount \$ _____ Authorized by: _____

Additional fees apply for after hours and holidays for all analytic types. Samples will be analyzed during normal laboratory hours unless otherwise arranged and specified on the chain of custody. Turnaround is subject to laboratory volume. You will be notified if delays are expected.

ASBESTOS LABORATORY HOURS
Weekdays: 7am - 7pm; Saturday 8am - 5pm

PCM/PLM _____ 2 Hour RUSH _____ 24 hour _____ 3-5 weekdays

TEM _____ 5 Hour RUSH _____ 24 hour _____ 3-5 weekdays
Per NIOSH REQUIRED for TEM 6 Hour RUSH

ANALYTICAL METHOD

AIR PCM 7604, 7400, OSHA
 TEM AHERA: Lead 8, 2400, ISO.
Prep/Atm. ISO and Prod. Prep. Method

AA/ICP _____ Metal _____ RCRA 6
Dist. Tox. Respirable

METALS LABORATORY HOURS
Weekdays: 8am - 5pm

AA/ICP _____ SPECIAL RUSH _____ 24 Hour _____ 3-5 Day

RCRA 6 _____ SPECIAL RUSH _____ 5 Day _____ 10 Day

TCLP _____ SPECIAL RUSH _____ 5 Day _____ 10 Day

*Per NIOSH REQUIRED for SPECIAL RUSH AA/RCRA or TCLP
RCRA and TCLP SPECIAL RUSH 1 Day Turnaround*

BULK OLM (Short report, Long report, Form Count, Approval)
 (SEM) _____ Cont. _____ Sem. _____ Libby 03
AA/ICP _____ Metal _____ RCRA 6

*Park, Soil, Dist. Wgt. TCLP
(ASTM 1792 approved report only)*

WATER TCM Drinking Waste Water
 AA Water _____ Metal _____ RCRA 6
Drinking Waste Water

OTHER Spills

Special Instructions: _____

Client Sample Number	Volume	EMF
1. <u>3602-S-E-A-1</u>		<u>986449</u>
2. <u>-S-C-A-2</u>		<u>150</u>
3. <u>-S-W-A-3</u>		<u>151</u>
4. <u>3603-S-E-A-1</u>		<u>152</u>
5. <u>-S-B-A-2</u>		<u>153</u>
6. <u>S-W-A-3</u>		<u>154</u>
7. <u>3607-S-E-A-1</u>		<u>155</u>
8. <u>S-C-A-2</u>		<u>156</u>
9. <u>S-W-A-3</u>		<u>157</u>
10. <u>3608-S-E-A-1</u>		<u>158</u>
11. <u>-S-MEGA-2</u>		<u>159</u>
12. <u>S-W-A-3</u>		<u>160</u>
13. <u>PS-W-A-3</u>		<u>161</u>
14. <u>P-S-E-A-1</u>		<u>162</u>
15. <u>PS-S-A-4</u>		<u>163</u>
16. <u>P-S-W-A-2</u>		<u>164</u>

NOTE: RES will analyze existing samples based upon results received and will not be responsible for errors or omissions in calculations resulting from the accuracy of original data. By signing this invoice, you represent the samples are a minimum of the following analytes for requested analysis and listed on the Chain of Custody and constitute an analytical services agreement with payment term of NET 30 days.

Relinquished By: Fed Ex Date/Time: _____

Laboratory Use Only		Date/Time: <u>7/23/05 9:16AM</u>	
Received By: <u>[Signature]</u>	Carrier: <u>Fed Ex</u>	Condition of package/ready seal upon receipt: <u>9000</u>	Date: _____
RESULTS: _____	Contact: _____	Page: _____	Phone: _____ Fax: _____ Email: _____
SPITS: _____	Authorization By/Time: _____	Lab Bench/Count Sheets Received By: _____	
_____	Analytical Memo/Turnaround: _____	Time: _____	Date: _____
_____	Results Due: _____	Results Out: _____	

Asbestos Sampling Chain of Custody/ Field Data Sheet

RES 188328
05-0111-115

<p>CLIENT Environmental Quality Management, Inc. 1800 Carillon Boulevard Cincinnati, Ohio 45240 3603</p>	<p>PROPERTY Bldgs. 3602, 3603, 3607, & 3608 Former Hospital Complex Fort Chaffee, Arkansas</p>
<p>INSPECTOR Date Building ID Turnaround Time</p>	<p>Bob E. Smith, Ah 7-21-05 3603 Normal</p>

SAMPLE ID	HA	SAMPLE DESCRIPTION (FILL IN * 12 White Floor-Tile)	SAMPLE LOCATION	A	C	CLASS (S.T.M)	ERABILITY (F.NF)	COND (G.D.SD)	DAMAGE (%)	FOI	DAM	DIAG
PE-00A	D	3603-PF-08A (Round floor)	UTILITY	✓		M	NF	6	0			
B				✓								
C				✓								
D				✓								
3602-S-E-A-1		SOLUBLE ANALYSIS: LIBBY-D3										
3602-S-C-A-2												
3602-S-W-A-3												
3603-S-E-A-1												
3603-S-E-A-2												
3603-S-W-A-3												
3607-S-E-A-1												
3607-S-C-A-2												
3607-S-W-A-3												
3608-S-E-A-1												
3608-S-C-A-2												
3608-S-W-A-3												
36 P-S-W-A-3												
P-S-E-A-1												

◆ - Analyze only if the previous sample was found to be negative

<p>Relinquished by <u>Bob E. Smith</u> Received by <u>J. K. Klemm</u></p>	<p>Time <u>12:00</u> Date <u>7-21-05</u></p>	<p>Relinquished by <u>Fedex</u> Received by <u>Samuel</u></p>	<p>Time Date</p>
---	--	---	----------------------

Comments: Asbestos (Tiger & Penetration) in accordance w/ EPA/600/R-93-116, July 1993. See analysis and analysis plan (collected).



Environmental
Enterprise Group, Inc.

Asbestos Sampling Chain of Custody/ Field Data Sheet

RES 18328

05-0111-115

CLIENT

Environmental Quality Management, Inc.
1800 Carillon Boulevard
Cincinnati, Ohio 45240

PROPERTY

Bldgs. 3602, 3603, 3607, & 3608
Former Hospital Complex
Fort Chaffee, Arkansas

Inspector

Bob E. Smith
Date 7-21-05
Building ID 3603
Turnaround Time Normal

SAMPLE ID	HA	SAMPLE DESCRIPTION (EFL, LFL, White Floor, etc)	SAMPLE LOCATION	A	C	CLASS (S, I, M)	FRAGILITY (F, NF)	COND (G, D, SD)	DAMAGE (%)	COL/DIAM (L, M, B)	QTY	DIAG REY
3603-04	4	3603-BI-04A (Blow In)	Attic	✓		M	F	G	0		1	H
	5	B		✓								
	6	C		✓								
	7	D		✓								
3603-05	5	3603-WG-05A (Window)	Windows	✓		M	F	G	0		1	H
	6	B		✓								
	7	C		✓								
	8	D		✓								
3603-06	6	3603-WBTIC-06A (IC)	Throughout	✓		S	NF	G	0		1	H
	7	B		✓								
	8	C		✓								
	9	D		✓								
3603-07	7	3603-WBSC-07A (SC)	Throughout	✓		S	NF	G	0		1	H
	8	B		✓								
	9	C		✓								
	10	D		✓								
PS-S-A-4		SOIL - ANALYSIS LIBRY-03										
PS-W-A-2		"										

◆ Analyze only if the previous sample was found to be negative.

Relinquished by Bob E. Smith Time 1920 Date 7-21-05

Received by M. R. Kennedy Time 1920 Date 7-21-05

Relinquished by FedEx Time 12:30 Date 9/16/05

Received by General Time 12:30 Date 9/16/05

Comments: Water (Type & Percentage) in accordance w/ EPA 609/610/R-93.116, July 1993. See also...

RESERVOIRS ENVIRONMENTAL SERVICES, INC.
 PLM ASBESTOS ANALYSIS - SHORT REPORT

DUE DATE: 8/13/05
 DUE TIME: ASAP

RES#: 119328
 EM#: 986149

Storage Box#: EQM box
 Client Sample #: 1

Sub-Part Percent:	A	B	C	D	E
ASBESTOS FIBERS	100				
CHRYBOTILE	tr				
AMOSITE	tr				
CROCIDOLITE					
TREMOLITE-ACTINOLITE					
ANTHOPHYLLITE					
TOTAL ASBESTOS:	tr				
NON-ASBESTOS FIBERS	tr				
NON-FIBROUS CONSTITUENTS	100				

PART:	Physical Description:	Fibr	Mi	Pe	Gr	CaCO	CaSO	OT
A	BROWN SOIL							
B								
C								
D								
E								

Point Count amosite w/chrysotile bundle Point Count By: _____

Point Count Total: _____

EM#: 986150

Client Sample #: _____

Sub-Part Percent:	A	B	C	D	E
ASBESTOS FIBERS	100				
CHRYBOTILE	tr				
AMOSITE	tr				
CROCIDOLITE					
TREMOLITE-ACTINOLITE					
ANTHOPHYLLITE					
TOTAL ASBESTOS:	tr				
NON-ASBESTOS FIBERS	tr				
NON-FIBROUS CONSTITUENTS	100				

PART:	Physical Description:	Fibr	Mi	Pe	Gr	CaCO	CaSO	OT
A	BROWN SOIL							
B								
C								
D								
E								

Point Count _____ Point Count By: _____

Point Count Total: _____

ANALYZED BY: R Sw DATE ANALYZED: 8/13/05

BASIC SCOPE CAL: _____
 (record on first analysis form in series)

RESERVOIRS ENVIRONMENTAL SERVICES, INC.
 PLM ASBESTOS ANALYSIS - SHORT REPORT

DUE DATE: 8/15/05
 DUE TIME: ASAP

RES#: 119328
 EM#: 986151

Storage Box#: EQM box
 Client Sample #: 1

Sub-Part: Percent	A	B	C	D	E
ASBESTOS FIBERS	100				
CHRYSOTILE	tr				
AMOSITE	tr				
CROCIDOLITE					
TREMOLITE-ACTINOLITE					
ANTHOPHYLLITE					
TOTAL ASBESTOS:	tr				
NON-ASBESTOS FIBERS	tr				
NON-FIBROUS CONSTITUENTS	100				

PART:	Physical Description:	Fibr	Mi	Pe	Gr	CaCO	CaSO	OT
A	BROWN SOIL							
B								
C								
D								
E								

Point Count:

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 Point Count By:

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Point Count Total: _____

EM#: 986152

Client Sample #: _____

Sub-Part: Percent	A	B	C	D	E
ASBESTOS FIBERS	100				
CHRYSOTILE	tr				
AMOSITE	tr				
CROCIDOLITE					
TREMOLITE-ACTINOLITE					
ANTHOPHYLLITE					
TOTAL ASBESTOS:	tr				
NON-ASBESTOS FIBERS	tr				
NON-FIBROUS CONSTITUENTS	100				

PART:	Physical Description:	Fibr	Mi	Pe	Gr	CaCO	CaSO	OT
A	BROWN SOIL							
B								
C								
D								
E								

Point Count:

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 Point Count By:

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Point Count Total: _____

ANALYZED BY: RSW DATE ANALYZED: 8/15/05

BASIC SCOPE CAL: _____
 (record on first analysis form in series)

RESERVOIRS ENVIRONMENTAL SERVICES, INC.
 PLM ASBESTOS ANALYSIS - SHORT REPORT

DUE DATE: 8/15/05
 DUE TIME: ASAP

RES#: 118328
 EM#: 986153

Storage Box#: EQM box
 Client Sample #: 1

Sub-Part Percent	A	B	C	D	E
ASBESTOS FIBERS	100				
CHRYSOTILE	tr				
AMOSITE	tr				
CROCIDOLITE					
TREMOLITE-ACTINOLITE					
ANTHOPHYLLITE					
TOTAL ASBESTOS	tr				
NON-ASBESTOS FIBERS	tr				
NON-FIBROUS CONSTITUENTS	100				

PART:	Physical Description:	Fibr	Mi	Pe	Gr	CaCO	CaSO	OT
A	<u>BROWN SOIL</u>					<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>
B								
C								
D								
E								

Point Count

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 Point Count By:

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Point Count Total: _____

EM#: 986154 Client Sample #: _____

Sub-Part Percent	A	B	C	D	E
ASBESTOS FIBERS	100				
CHRYSOTILE	tr				
AMOSITE	tr				
CROCIDOLITE					
TREMOLITE-ACTINOLITE					
ANTHOPHYLLITE					
TOTAL ASBESTOS	tr				
NON-ASBESTOS FIBERS	tr				
NON-FIBROUS CONSTITUENTS	100				

PART:	Physical Description:	Fibr	Mi	Pe	Gr	CaCO	CaSO	OT
A	<u>BROWN SOIL</u>					<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>
B								
C								
D								
E								

Point Count

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 Point Count By:

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Point Count Total: _____

ANALYZED BY: RSW DATE ANALYZED: 8/15/05 BASIC SCOPE CAL: _____
 (record on first analysis form in series)

RESERVOIRS ENVIRONMENTAL SERVICES, INC.
 PLM ASBESTOS ANALYSIS - SHORT REPORT

DUE DATE: 8/15/05
 DUE TIME: ASAP

RES#: 118328
 EM#: 986155

Storage Box#: EQM box
 Client Sample #: 1

Sub-Part Percent:	A	B	C	D	E
ASBESTOS FIBERS	100				
CHRYSOTILE	tr				
AMOSITE	tr				
CROCIDOLITE					
TREMOLITE-ACTINOLITE					
ANTHOPHYLLITE					
TOTAL ASBESTOS	tr				
NON-ASBESTOS FIBERS	tr				
NON-FIBROUS CONSTITUENTS	100				

PART:	Physical Description:	Fibr	Mi	Pe	Gr	CaCO	CaSO	OT
A	<u>BROWN SOIL</u>							
B								
C								
D								
E								

Point Count:

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 Point Count By: _____
 Point Count Total: _____

EM#: 986156

Client Sample #: _____

Sub-Part Percent:	A	B	C	D	E
ASBESTOS FIBERS	100				
CHRYSOTILE	tr				
AMOSITE	tr				
CROCIDOLITE					
TREMOLITE-ACTINOLITE					
ANTHOPHYLLITE					
TOTAL ASBESTOS	tr				
NON-ASBESTOS FIBERS	tr				
NON-FIBROUS CONSTITUENTS	100				

PART:	Physical Description:	Fibr	Mi	Pe	Gr	CaCO	CaSO	OT
A	<u>BROWN SOIL</u>							
B								
C								
D								
E								

Point Count:

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 Point Count By: _____
 Point Count Total: _____

ANALYZED BY: RSW DATE ANALYZED: 8/15/05

BASIC SCOPE CAL: _____
 (rec'd on first analysis form in series)

RESERVOIRS ENVIRONMENTAL SERVICES, INC.
 PLM ASBESTOS ANALYSIS - SHORT REPORT

DUE DATE: _____
 DUE TIME: _____

RES#: 11832B
 ENR#: 986157

Storage Box#: _____
 Client Sample #: 8/11/05
3607-S-W-A-3

Sub-Part Percent	A	B	C	D	E
ASBESTOS FIBERS	100				
CHRYSOTILE					
AMOSITE	TR				
CROCIDOLITE	TR				
TREMOLITE-ACTINOLITE					
ANTHOPHYLLITE					
TOTAL ASBESTOS:	TR				
NON-ASBESTOS FIBERS	TR				
NON-FIBROUS CONSTITUENTS	100				

PART: BRN SOEL Physical Description:

Fibr	Mi	Pe	Gr	CaCO	CaSO	OT

Point Count

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Point Count By: _____

Point Count Total: _____

M#: 986158

Client Sample #: 3608-S-E-A-1

Sub-Part Percent	A	B	C	D	E
ASBESTOS FIBERS	100				
CHRYSOTILE					
AMOSITE					
CROCIDOLITE					
TREMOLITE-ACTINOLITE					
ANTHOPHYLLITE					
TOTAL ASBESTOS:	0				
NON-ASBESTOS FIBERS	3				
NON-FIBROUS CONSTITUENTS	97				

PART: BRN SOEL Physical Description:

Fibr	Mi	Pe	Gr	CaCO	CaSO	OT

Point Count

--	--	--	--	--	--	--

Point Count By: _____

Point Count Total: _____

ANALYZED BY:  DATE ANALYZED: 8/15/05

BASIC SCOPE CAL 915A
 (record on first analysis form in series)

RESERVOIRS ENVIRONMENTAL SERVICES, INC.
 PLM ASBESTOS ANALYSIS - SHORT REPORT

DUE DATE: _____
 DUE TIME: _____

RES#: 118328
 EM#: 986159

Storage Box#: 8/11/05
 Client Sample #: 3608-5-C-A-2

Sub-Part Percent	A	B	C	D	E
ASBESTOS FIBERS	100				
CHRYBOTILE	TR				
AMOSITE	TR				
CROCIDOLITE					
TREMOLITE-ACTINOLITE					
ANTHOPHYLLITE					
TOTAL ASBESTOS:	TR				
NON-ASBESTOS FIBERS	3				
NON-FIBROUS CONSTITUENTS	97				

PART: BRN SOIL Physical Description:

PART:	Fibr	Mi	Pe	Gr	CaCO	CaSO	OT
A							
B							
C							
D							
E							

Point Count

--	--	--	--	--	--	--	--

 Point Count By: _____

Point Count Total: _____

EM#: 986160

Client Sample #: 3608-5-W-A-3

Sub-Part Percent	A	B	C	D	E
ASBESTOS FIBERS	100				
CHRYBOTILE	TR-1				
AMOSITE					
CROCIDOLITE					
TREMOLITE-ACTINOLITE					
ANTHOPHYLLITE					
TOTAL ASBESTOS:	TR				
NON-ASBESTOS FIBERS	TR				
NON-FIBROUS CONSTITUENTS	100				

PART: BRN SOIL Physical Description:

PART:	Fibr	Mi	Pe	Gr	CaCO	CaSO	OT
A							
B							
C							
D							
E							

Point Count

--	--	--	--	--	--	--	--

 Point Count By: _____

Point Count Total: _____

ANALYZED BY: DFR DATE ANALYZED: 8, 15, 05

BASIC SCOPE CAL 915A
 (record on first analysis form in series)

RESERVOIRS ENVIRONMENTAL SERVICES, INC.
PLM ASBESTOS ANALYSIS - SHORT REPORT

DUE DATE:
DUE TIME:

RES#: 118328
EM#: 986161

Storage Box# _____
Client Sample #: 8/11/05
PS-N-A-3

Sub-Part Percent	A	B	C	D	E
ASBESTOS FIBERS	<u>100</u>				
CHRYSOTILE					
AMOSITE					
CROCIDOLITE					
TREMOLITE-ACTINOLITE					
ANTHOPHYLLITE					
TOTAL ASBESTOS:	<u>0</u>				
NON-ASBESTOS FIBERS	<u>10</u>				
NON-FIBROUS CONSTITUENTS	<u>90</u>				

PART: Physical Description:
BRN SOIL

	Fibr	Mi	Pe	Gr	CaCO	CaSO	OT
1							
2							
3							
4							
5							

Point Count

--	--	--	--	--	--	--	--

Point Count By: _____

Point Count Total: _____

M#: 986162

Client Sample #: P-S-E-A-1

Sub-Part Percent	A	B	C	D	E
ASBESTOS FIBERS	<u>100</u>				
CHRYSOTILE					
AMOSITE					
CROCIDOLITE					
TREMOLITE-ACTINOLITE					
ANTHOPHYLLITE					
TOTAL ASBESTOS:	<u>0</u>				
NON-ASBESTOS FIBERS	<u>15</u>				
NON-FIBROUS CONSTITUENTS	<u>85</u>				

PART: Physical Description:
BRN SOIL

	Fibr	Mi	Pe	Gr	CaCO	CaSO	OT
1							
2							
3							
4							
5							

Point Count

--	--	--	--	--	--	--	--

Point Count By: _____

Point Count Total: _____

ANALYZED BY:  DATE ANALYZED: 8/15/05

BASIC SCOPE CAL: 915A
(record on first analysis form in series)

RESERVOIRS ENVIRONMENTAL SERVICES, INC.
 PLM ASBESTOS ANALYSIS - SHORT REPORT

DUE DATE: _____
 DUE TIME: _____

RES#: 118328
 EM#: 986163

Storage Box#: _____
 Client Sample #: B/11/05
P-S-A-4

Sub-Part Percent:	A	B	C	D	E
ASBESTOS FIBERS	<u>100</u>				
CHRYSOTILE					
AMOSITE					
CROCIDOLITE					
TREMOLITE-ACTINOLITE					
ANTHOPHYLLITE					
TOTAL ASBESTOS:	<u>0</u>				
NON-ASBESTOS FIBERS	<u>15</u>				
NON-FIBROUS CONSTITUENTS	<u>85</u>				

PART: BRN SOIL Physical Description:

	Fibr	Mi	Pe	Gr	CaCO	CaSO	OT

Point Count

--	--	--	--	--	--	--	--

Point Count By: _____

Point Count Total: _____

M#: 986164

Client Sample #: P-S-W-A-2

Sub-Part Percent:	A	B	C	D	E
ASBESTOS FIBERS	<u>100</u>				
CHRYSOTILE					
AMOSITE					
CROCIDOLITE					
TREMOLITE-ACTINOLITE					
ANTHOPHYLLITE					
TOTAL ASBESTOS:	<u>0</u>				
NON-ASBESTOS FIBERS	<u>5</u>				
NON-FIBROUS CONSTITUENTS	<u>95</u>				

PART: BRN SOIL Physical Description:

	Fibr	Mi	Pe	Gr	CaCO	CaSO	OT

Point Count

--	--	--	--	--	--	--	--

Point Count By: _____

Point Count Total: _____

ANALYZED BY: [Signature] DATE ANALYZED: 8/15/05

BASIC SCOPE CAL: 915A

(Record on first analysis form in series)

EQM Fort Chaffee Soil
TEM Asbestos: Structure Count for SOP EPA-LIBBY-03 (Soil by EPA 600)

Laboratory name	Reservoirs
Instrument	JEOL 100 CX
Voltage (KV)	100
Magnification	200X
Grid opening area (mm ²)	0.011
Scale: 1L =	0.28
Scale: 1D =	0.086
Primary filter area (mm ²)	385
Gravimetric Reduction Ratio (GRR)	0.94
Category (Field, Rep, Dup., Blank)	Field
Primary filter pore-size (um)	0.22

EPA Sample Number	3902-S-E-A-1	Soil
Sample Type		
Date received by lab	7/23/2005	
Lab Job Number	118328	
Lab Sample Number	888148	
Number of grids prepared	3	
Prepared by	JSC/MH	
Preparation date	7/24/2005	
EPA COC Number	030111-115	
Secondary filter pore-size (um)	0.22	

Analyzed by	JSO
Analysis date	7/29/2005
Method (SOP)	EPA-LIBBY-03

Grid storage location	118328
-----------------------	--------

Mass of residues suspended (mg)	96.1
Volume of water (mL)	100
Volume applied to filter (mL)	0.2

QA Type (Nat OA, Recount Same, Recount Diff, Re-prep, Verified Anal, Recount, Lab Blank)

Grid	Grid Opening	Structure Type	No. of Structures		Dimensions			Mineral Class (see below)			Sketch	Photo	EDS
			Primary	Total	Length	Width	LA	OA	C				
A	F5-1	ND											
	E5-1	F		-	12	3							
	E4-1	F		1	6	1					✓		
B	G4-1	F		-	20	5							
	G4-6	ND											
	E4-6	ND											
	O4-6	ND											
	B4-6	ND											
	C5-6	ND											
	G5-3	ND											

Handwritten notes: "118328", "7/29/05", "JSC/MH"

20-25% debris

C = Chrysotile

OA = Other non-Libby type amphibole

LA = Libby type amphibole

EQM Fort Chaffee Soil
TEM Asbestos Structure Count for SOP EPA-LIBBY-03 (Soil by EPA 600)

Laboratory name	Reservoirs
Instrument	JEOJ 100CX
Voltage (KV)	100
Magnification	200X
Grid opening area (mm ²)	0.011
Scale: 1L =	0.28
Scale: 1D =	0.056
Primary filter area (mm ²)	385
Gravimetric Reduction Ratio (GRR)	0.96
Category (Field, Rep., Dup., Blank)	Field
Primary filter pore size (um)	0.22

EPA Sample Number:	3602-S-C-A-2
Sample Type	Soil
Date received by lab	7/23/2005
Lab Job Number	118328
Lab Sample Number	986150
Number of grids prepared	3
Prepared by	JSC/MH
Preparation date	7/24-29/05
EPA COSC Number	050111-113
Secondary filter pore size (um)	0.22

Analyzed by	JSC
Analysis date	7/23/2005
Method (SOP)	EPA-LIBBY-03

Grid storage location	118328
-----------------------	--------

Mass of residue/suspended (mg)	106
Volume of water (mL)	100
Volume applied to filter (mL)	0.2

OA Type (not OA, Recount Same, Recount Diff, Re-press, Verified Anal, Research, Lab Blank)

Grid	Grid Opening	Structure Type	No. of Structures		Dimensions			Mineral Class (see below)			Sketch/Comments					
			Primary	Total	Length	Width	LA	OA	C	Sketch	Photo	EDS				
A	G5-4	ND														
	H4-6	ND														
	G4-1	ND														
	F3-3	ND														
	E4-1	F		1	9	1										
B	B4-4	ND														
	G4-3	ND														
	E5-4	ND														
	F5-6	ND														
	H3-6	ND														

LA = Libby-type amphibole OA = Other (non-Libby type) amphibole C = Chrysotile

EQM Pert Chalkoo Soil
TEM Asbestos Structure Count for SCP EPA-LIBBY-03 (Soil by EPA 609)

Laboratory name	Reservoirs
Instrument	JEOL 100LX
Voltage (KV)	100
Magnification	200X
Grid opening area (mm ²)	0.011
Scale: 1L =	0.28
Scale: 1D =	0.066
Primary filter area (mm ²)	385
Gravimetric Reduction Ratio (GRR)	0.94
Category (Field, Rep., Dup., Blank)	Field
Primary filter pore size (µm)	0.22

EPA Sample Number	3602-S-W-A-3
Sample Type	Soil
Date received by lab	7/23/2005
Lab Job Number	118328
Lab Sample Number	988151
Number of grids prepared	3
Prepared by	JSC/MH
Preparation date	7/24/2005
EPA COC Number	080111-115
Secondary filter pore size (µm)	0.22

Analyzed by	JSO
Analysis date	7/28/2005
Method (SOP)	EPA-LIBBY-03

Grid storage location	118328
-----------------------	--------

Mass of residue suspended (mg)	102.2
Volume of water (mL)	100
Volume applied to filter (mL)	0.2

QA Type (Not QA, Recount Same, Recount Diff, Re-prep, Verified Anal, Recount, Lab Blank)

Grid	Grid Opening	Structure Type	No. of Structures		Dimensions			Mineral Class (see below)			Sketch/Comments					
			Primary	Total	Length	Width	LA	OA	C	Sketch	Photo	EDS				
A	G3-6	ND														
	H3-6	ND														
	H4-6	ND														
	F4-6	ND														
	G5-6	ND														
B	E4-3	F		1	9	1										
	F4-6	ND														
	G5-3	ND														
	C6-4	ND														
	B4-3	ND														

Matrix with clods

LA = Libby-type amphibole OA = Other (non-Libby type) amphibole C = Chrysotile

~ 15% clods

EQM Fort Chaffee Soil
TEM Asbestos-Structure Count for SOP EPA-LIBBY-03 (Soil by EPA 600)

Analyzed by:	JSO
Analysis date	7/28/2005
Method (SOP)	EPA-LIBBY-03

Grid storage location	118328
-----------------------	--------

Mass of residue suspended (mg)	100.1
Volume of water (mL)	100
Volume applied to filter (mL)	0.2

OA Type Not OA, Recount Same, Recount Diff, Re-prep, Vented Atol, Recount, Lab. (Blank)

EPA Sample Number	6003-S-E-A-1	Soil
Date received by lab	7/23/2005	
Lab Job Number	118328	
Lab Sample Number	986162	
Number of grids prepared	3	
Prepared by	JGS/MHT	
Preparation date	7/24-28/05	
EPA COC Number	080114-115	
Secondary filter pore size (um)	0.22	

Laboratory name	Reservoirs
Instrument	JEDOL 100 CX
Voltage (KV)	100
Magnification	20KX
Grid opening area (cm ²)	0.011
Scales: 1L =	0.20
Scale: 1D =	0.056
Primary filter area (mm ²)	385
Gravimetric Reduction Ratio (GRR)	0.06
Category (Field, Rep., Dup., Blank)	Field
Primary filter pore size (um)	0.22

Grid	Grid Opening	Structure Type	No. of Structures		Dimensions			Mineral Class (see below)			Sketch/Comments			1 = yes, blank = no			
			Primary	Total	Length	Width	LA	OA	C	Sketch	Photo	EDS					
A	C5-1	ND															
	E4-3	ND															
	F5-1	ND															
	G5-1	ND															
	F6-1	F		1	3	1											
B	F5-1	F		2	9	1											
	G4-3	F		3	2.5	1											
	G5-6	ND															
	C6-1	ND															
	B4-6	ND															

LA = Libby-type amphibole OA = Other (non-Libby type) amphibole C = Chrysotile

EQM Fort Chaffee Soil
TEM Asbestos Structure Count for SOP EPA-LIBBY-03 (Soil by EPA 800)

Analyzed by	JSQ
Analysis date	7/29/2006
Method (SOP)	EPA-LIBBY-03

Crate storage location	118328
------------------------	--------

Mass of residue suspended (mg)	107.6
Volume of water (ml)	100
Volume applied to filter (ml)	0.2

Cell Type (Not OA, Recount Same, Recount Diff, Re-prep, Verified Anal, Recount, Lab, Blank)

EPA Sample Number	5603-S-C-A-2
Sample Type	Soil

Date received by job	7/23/2006
Lab Job Number	118328
Lab Sample Number	880153
Number of grids prepared	3
Prepared by	JSO/MH
Preparation date	7/24-29/06
EPA COC Number	050111-115
Secondary filter pore size (um)	0.22

Laboratory name	Reynolds
Instrument	JEOL 100 CX
Voltage (KV)	100
Magnification	200X
Grid opening area (mm ²)	0.011
Scale: 1L =	0.28
Scale: 1D =	0.056
Primary filter area (mm ²)	385
Gravimetric Reduction Ratio (GRR)	0.96
Category (Field, Rep., Dup., Blank)	Field
Primary filter pore size (um)	0.22

Grid	Grid Opening	Structure Type	No. of Structures		Dimensions			Mineral Class (see below)			1 = yes, blank = no					
			Primary	Total	Length	Width	LA	OA	C	Sketch	Photo	EDS				
A	C5-4	F		1	3	1										
	B4-3	ND														
	C4-3	ND														
	C5-4	ND														
	E5-4	ND														
B	C4-3	ND														
	E4-1	ND														
	F4-3	ND														
	G5-4	ND														
	G6-1	ND														

LA = Libby-type amphibole OA = Other (non-Libby type) amphibole C = Chlorocilob

EOM Fort Chaffee Soil
 YEM Asbestos Structure Count for SOP EPA-LIBBY-03 (Soil by EPA 600)

Laboratory name	Reservoirs
Instrument	JECO 100 CX
Voltage (KV)	100
Magnification	20KX
Grid opening area (mm ²)	0.011
Scale: 1L =	0.20
Scale: 1D =	0.096
Primary filter area (mm ²)	385
Gravimetric Reduction Ratio (GRR)	0.76
Category (Field, Rep., Dup., Blank)	Field
Primary filter pore size (um)	0.22

ERA Sample Number	3605-S-AE-43
Sample Type	Soil
Date received by lab	7/23/2005
Lab Job Number	116328
Lab Sample Number	986164
Number of grids prepared	3
Prepared by	JSC/MH
Preparation date	7/24-29/05
EPA CCG Number	050111-116
Secondary filter pore size (um)	0.22

Analyzed by	JSD
Analysis date	7/29/2005
Method (SOP)	EPA-LIBBY-03

Grid storage location	118328
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Mass of residue suspended (mg)	108.9
Volume of water (mL)	100
Volume applied to filter (mL)	0.2

QA Type (Not QA, Rejected Sample, Rejected Data, No prep, Verified Anal, Research Lab, Blank)

Grid	Grid Opening	Structure Type	No. of Structures		Dimensions			Mineral Class (see below)			Sketch/Comments				
			Primary	Total	Length	Width	LA	OA	C	Sketch	Photo	EDS			
A	G6-4	ND		-	8	5									
	C5-4	F		1	24	1				✓					
	C4-1	M													
	B5-4	ND													
	F3-4	ND													
B	H5-6	ND													
	F5-6	ND													
	E6-4	ND													
	C3-4	ND		-	10	1									
	B3-4	ND													

New Asbestos
 SCAK 10:4:4
 f

MAN
 NA DP

~ 20% asbestos

LA = Libby-type amphibole OA = Other (non-Libby type) amphibole C = Chrysotile

EQM Fort Chaffee Soil
TEM Asbestos Structure Count for SOP EPA-LIBBY-03 (Soil by EPA 600)

Laboratory name:	Reservoirs
Instrument	JEOL 100 CX
Voltage (KV)	100
Magnification	20KX
Grid opening area (mm ²)	0.011
Scale: 1L =	0.28
Scale: 1D =	0.056
Primary filter area (mm ²)	385
Gravimetric Reduction Ratio (GRR)	0.96
Category (Field, Rep., Dup., Blank)	Field
Primary filter pore size (µm)	0.22

EPA Sample Number	3607-S-EA-1
Sample Type	Soil
Date received by lab	7/23/2005
Lab Job Number	118328
Lab Sample Number	3607155
Number of grass prepared	3
Prepared by	JSC/MH
Preparation date	7/24-28/05
EPA COC Number	060111-115
Secondary filter pore size (µm)	0.22

Analyzed by	JSO
Analysis date	7/29/2005
Method (SOP)	EPA-LIBBY-03

Grid storage location	118328
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Mass of residue suspended (mg)	108.2
Volume of water (mL)	100
Volume applied to filter (mL)	9.2

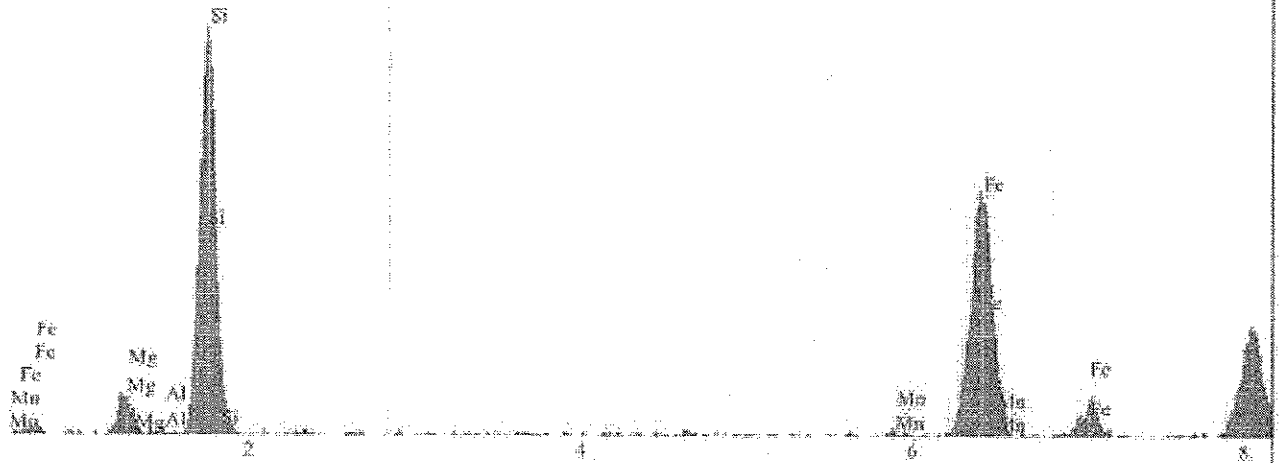
QA Type (Nil QA, Recount Sample, Recount Dir. for prep, Verified Anal, Recount, Lab Blank)	
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Grid	Grid Opening	Structure Type	No. of Structures		Dimensions			Mineral Class (see below)			Sketch/Comments			1 = yes, blank = no			
			Primary	Total	Length	Width	LA	QA	C	Sketch	Photo	EDS					
A	C4-1	F		1	6	1											
	B4-1	ND		2	34	8											
	G6-4	ND															
	F6-4	ND															
	E6-4	ND															
B	H6-4	ND															
	G6-4	ND															
	F6-4	ND															
	E6-4	ND															

LA = Libby-type amphibole QA = Other (non-Libby type) amphibole C = Chrysotile

Spectrum Spectrum1

080155
A: C41
Structure #2



Cursor=2.855 keV 1 cm ID=10x10 Ru Jb2 Pd Jb2 Hgmc Ra ma1 Pd Jb3 Mo Jg3 Mn Jg2 Po mg1 Po mg2
Vert=500 Window 0.005 - 40.955 = .8764 cm

El.	Line	Intensity (c/s)	Error 2-sig	Conc	
Mg	Ka	3.93	0.512	0.000	wt.%
Al	Ka	0.46	0.175	0.000	wt.%
Si	Ka	45.06	1.733	0.000	wt.%
Mn	Ka	0.56	0.192	0.000	wt.%
Fe	Ka	36.87	1.568	0.000	wt.%
				0.000	wt.%
					Total

kV 100.0
Takeoff Angle 90.0°
Elapsed Livetime 60.0

EQM Fort Chaffee Soil
TEM Asbestos Structure Count for SOP EPA-LIBBY-03 (Soil by EPA 600)

Laboratory name	Reservoirs
Instrument	JEOL 100 CX
Voltage (KV)	100
Magnification	200X
Grid opening area (mm ²)	0.011
Scale: 1L =	0.28
Scale: 10 =	0.056
Primary filter area (mm ²)	385
Gravimetric Reduction Ratio (GRR)	0.96
Category (Field, Rep., Dup., Blank)	Field
Primary filter pore size (µm)	0.22

EPA Sample Number	3807-S-C-A-2
Sample Type	Soil
Date received by lab	7/29/2006
Lab Job Number	118328
Lab Sample Number	908198
Number of grids prepared	5
Prepared by	JSC/MMH
Preparation date	7/24-29/06
EPA/COC Number	05011-115
Secondary filter pore size (µm)	0.22

Analyzed by	JSO
Analysis date	7/29/2006
Method (SOP)	EPA-LIBBY-03

Grid storage location	118328
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Mass of resin/suspension (mg)	96.1
Volume of water (mL)	100
Volume applied to filter (mL)	0.2

QA Type (Not OK, Recount Same, Recount Diff, Re-prep, Verified Analyt, Recount, Lab Blank)

Grid	Grid Opening	Structure Type	No. of Structures		Dimensions			Mineral Class (see below)			Sketch/Comments		I = yes, Blank = no		
			Primary	Total	Length	Width	LA	OA	C	Sketch	Photo	EDS			
A	F4H	ND		1	4	1									
	G4H	ND													
	K4H	F													
	H4H	ND													
	G5Y	ND													
B	F5Y	ND													
	E5Y	ND													
	C5Y	ND													
	B5Y	F		2	5.5	4				✓					
	C4B	ND													

LA = LIBBY-type amphibole. OA = Other (non-Libby type) amphibole. C = Chrysotile

EQM Fort Chaffee Soil
TEM Asbestos-Structural Count for SOP EPA-LIBBY-03 (Soil by EPA 600)

Laboratory name	Reservoirs
Instrument	JEOL 130-CX
Voltage (KV)	100
Magnification	200X
Grid opening area (mm ²)	0.011
Scale: 1L =	0.20
Scale: 1D =	0.056
Primary filter area (mm ²)	325
Gravimetric Reduction Ratio (GRR)	Field
Category (Field, Rep., Dup., Blank)	
Primary filter pore size (um)	0.22

EPA Sample Number	3607-S-W-A-3
Sample Type	Soil
Date received by lab	7/23/2005
Lab Job Number	118826
Lab Sample Number	986167
Number of grids prepared	3
Prepared by	SSD/MH
Preparation date	7/24-29/05
EPA COC Number	060111-115
Secondary filter pore size (um)	0.22

Analyzed by	JSO
Analysis date	7/29/2005
Method (SOP)	EPA-LIBBY-03

Grid storage location	118826
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Mass of residue suspended (mg)	106.9
Volume of water (mL)	100
Volume applied to filter (mL)	0.2

QA Type (Field QA, Recount Blank, Recount, Calc. Re-prep, Ventline Anal, Recount, Lab Blank)	
--	--

Grid	Grid Opening	Structure Type	No. of Structures		Dimensions			Mineral Class (see below)			Sketch/Comments	1 = yes, blank = no.				
			Primary	Total	Length	Width	LA	OA	C	Sketch		Photo	EDS			
A	G5-4	ND														
	F4-6	ND														
	G4-4	ND														
	H3-3	ND														
	H4-3	ND														
B	H3-3	ND														
	G4-1	ND														
	H4-3	ND														
	P5-6	ND														
	G5-1	ND														

20-25% debris

LA = Libby-type amphibole OA = Other (non-Libby type) amphibole C = Chrysotile

EQM Fort Chaiffee Soil
TEM Asbestos Structure Count for SOP EPA-LIBBY-03 (Soil by EPA 600)

Laboratory name	Reservoirs
Instrument	JEOL 100CX
Voltage (KV)	100
Magnification	200X
Grid opening area (cm ²)	0.811
Scale: 1L =	0.28
Scale: 1D =	0.058
Primary filter area (cm ²)	385
Gravimetric Reduction Ratio (GRR)	0.97
Category (Field, Rep., Dup., Blank)	Field
Primary filter pore size (µm)	0.22

EPA Sample Number	3508-S-EA-1
Sample Type	Soil
Date received by lab	7/23/2005
Lab Job Number	118328
Lab Sample Number	985158
Number of grids prepared	3
Prepared by	JSD/MH
Preparation date	7/24-29/05
EPA QOC Number	050111-115
Secondary filter pore size (µm)	0.22

Analyzed by	JSO
Analysis date	7/28/2005
Method (SOP)	EPA-LIBBY-03

Spot storage location	118328
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Mass of residue suspended (mg)	105.5
Volume of water (mL)	100
Volume applied to filter (mL)	0.2

QA Type (Mtl, CA, Rescoat Stamp, Rescoat Ink, Rescoat, Unfilled Ang, Rescoat, Lab, Blank)

Grid	Grid Opening	Structure Type	No. of Structures		Dimensions			Mineral Class (see below)			Sketch/Comments			1 = yes, blank = NO	
			Primary	Total	Length	Width	LA	CA	C	Sketch	Photo	EDS			
A	E3-4	ND													
	C3-6	ND													
	O4-6	ND													
	F4-1	ND													
	F3-6	ND													
B	F4-1	ND													
	P3-4	ND													
	G3-4	ND													
	H3-3	ND													
	O4-3	ND													

LA = Libby-type amphibole OA = Other (non-Libby type) amphibole C = Chrysotile 20-25% debris

EQM Fort Chaffee Soil
TEM Asbestos Structure Count for SOP EPA-LIBBY-03 (Soil by EPA 600)

Analyzed by	JSO
Analysis date	7/29/2009
Method (SOP)	EPA-LIBBY-03

Grid storage location	118328
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Mass of residue suspended (mg)	101
Volume of water (mL)	100
Volume applied to filter (mL)	0.2

QA Type (Not QA, Recount Spans, Recount Diff, Recount, Verified Anal, Recount, Lab Blank)	
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EPA Sample Number	3CD6-S-C-A-2
Sample Type	Soil
Date received by lab	7/29/2009
Lab Job Number	118328
Lab Sample Number	986169
Number of grids prepared	3
Prepared by	JSO/MH
Preparation date	7/24-29/09
EPA CCC Number	050111-316
Secondary filter pore size (um)	0.22

Laboratory name	Reservoirs
Instrument	JEOL 100 CX
Voltage (KV)	100
Magnification	200X
Grid opening area (mm ²)	0.011
Scale: 1L =	0.26
Scale: 1D =	0.056
Primary filter area (mm ²)	385
Gravimetric Reduction Ratio (GRR)	0.96
Category (Field, Rep, Dup., Blank)	Field
Primary filter pore size (um)	0.22

Grid	Grid Opening	Structure Type	No. of Structures		Dimensions			Mineral Class (see below)			Sketch/Comments			1 = yes, blank = no			
			Primary	Total	Length	Width	LA	OA	C	Sketch	Photo	EDS					
A	K4-6	ND															
	H5-1	ND															
	G8-3	ND															
	F4-3	ND															
	E5-1	ND															
B	F4-1	ND															
	E4-6	ND															
	F3-1	ND															
	C4-6	ND															
	C5-3	ND															

15-20% debris

LA = Libby-type amphibole OA = Other (non-Libby type) amphibole C = Chrysotile

EQM Fort Cheffe Soil
TEM Asbestos Structure Count for SOP EPA-LIBBY-03 (Soil by EPA 600)

Laboratory name	Reservoirs
Instrument	JEOL 100 CX
Voltage (kV)	100
Magnification	20KX
Grid opening area (mm ²)	0.011
Scale: H. a	0.28
Scale: ID =	0.050
Primary filter area (mm ²)	385
Chromatic Reduction Ratio (CRR)	
Category (Field, Rep.)	
Dup.: Blank	
Primary filter pore size (um)	

EPA Sample Number	3608-SW-A-3
Sample Type	Soil
Date received by lab	7/23/2005
Lab Job Number	118326
Lab Sample Number	208100
Number of grids prepared	3
Prepared by	JSD/INH
Preparation date	7/24-29/05
EPA COC Number	050111-115
Secondary filter pore size (um)	0.22

Analyzed by	ESD
Analysis date	7/29/2005
Method (SOP)	EPA-LIBBY-03

Grid storage location	118326
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Mass of residue suspended (mg)	100.0
Volume of water (mL)	100
Volume applied to filter (mL)	0.2

QA Type (No QA, Recount Same, Recount Diff, Re-prep, Verify/Anly, Recount Lab Blank)	
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Grid	Grid Opening	Structure Type	No. of Structures		Dimensions			Mineral Class (see below)			Sketch	Photo	EDS
			Primary	Total	Length	Width	LA	OA	C				
A	E3-1	F		1	9	1							
		F		2	19	1							
	F23	F		3	7	1							
	G34	F		4	14	1							
		F		5	4	1							
	H4-3	F		6	6	1							
		F		7	10	1							
		F		8	4	1							
		F		9	3.5	1							
		F		10	2	1							

LA = Libby-type amphibole OA = Other (non-Libby type) amphibole C = Chrysotile

EDM Fort. Chaffee Soil
TEM Asbestos Structure Count for SOP EPA-LIBBY-03 (Soil by EPA-600)

LAB NAME	Reservoirs	EPA SAMPLE NO.	LAB JOB NUMBER
LAB SAMPLE NO.	986160	908-S.W-A3	118328
		SORT	GRID STORAGE LOC.
			118328

Grid	Grid Opening	Structure Type	No. of Structures		Dimensions		Identification	Mineral Class.			Sketch/Comments	† = yes, blank = no				
			Primary	Total	Length	Width		LA	QA	C		Sketch	Photo	EDS		
	G4-6	F		11	14	1					✓					
		F		12	7	1					✓					
B	G4-4	F		13	3	1					✓					
		F		14	4	1					✓					
		F		15	6	1					✓					
		F		16	4	1					✓					
		F		17	9	1					✓					
		F		18	5	1					✓					
		F		19	3	1					✓					
		F		20	12	1					✓					
		F		21	2	1					✓					
	F4-6	F		22	13	1					✓					
		F		23	8	1					✓					
	G4-6	F		24	6	1					✓					
		F		25	7	1					✓					

BQM Fort Chaffee Soil
TEM Asbestos Structure Count for SOP EPA-LIBBY-03 (Set by EPA 600)

Laboratory name	Reservoir
Instrument	JEOL 100 CX
Voltage (KV)	100
Magnification	200X
Grid opening area (mm ²)	0.011
Scale: 1L =	0.25
Scale: 1D =	0.056
Primary filter area (mm ²)	385
Gravimetric Reduction Ratio (GRR)	
Category (Field, Rep., Dup., Blank)	Field
Primary filter pore size (um)	0.22

EPA Sample Number	P-S-N-A-3
Sample Type	Soil
Date received by lab	7/23/2005
Lab Job Number	118328
Lab Sample Number	28164
Number of grids prepared	3
Prepared by	JSS/MH
Preparation date	7/24/2005
EPA COC Number	D90111-118
Secondary filter pore size (um)	0.22

Analyzed by	JSO
Analysis date	7/29/2005
Method (SOP)	EPA-LIBBY-03

Grid storage location	118328
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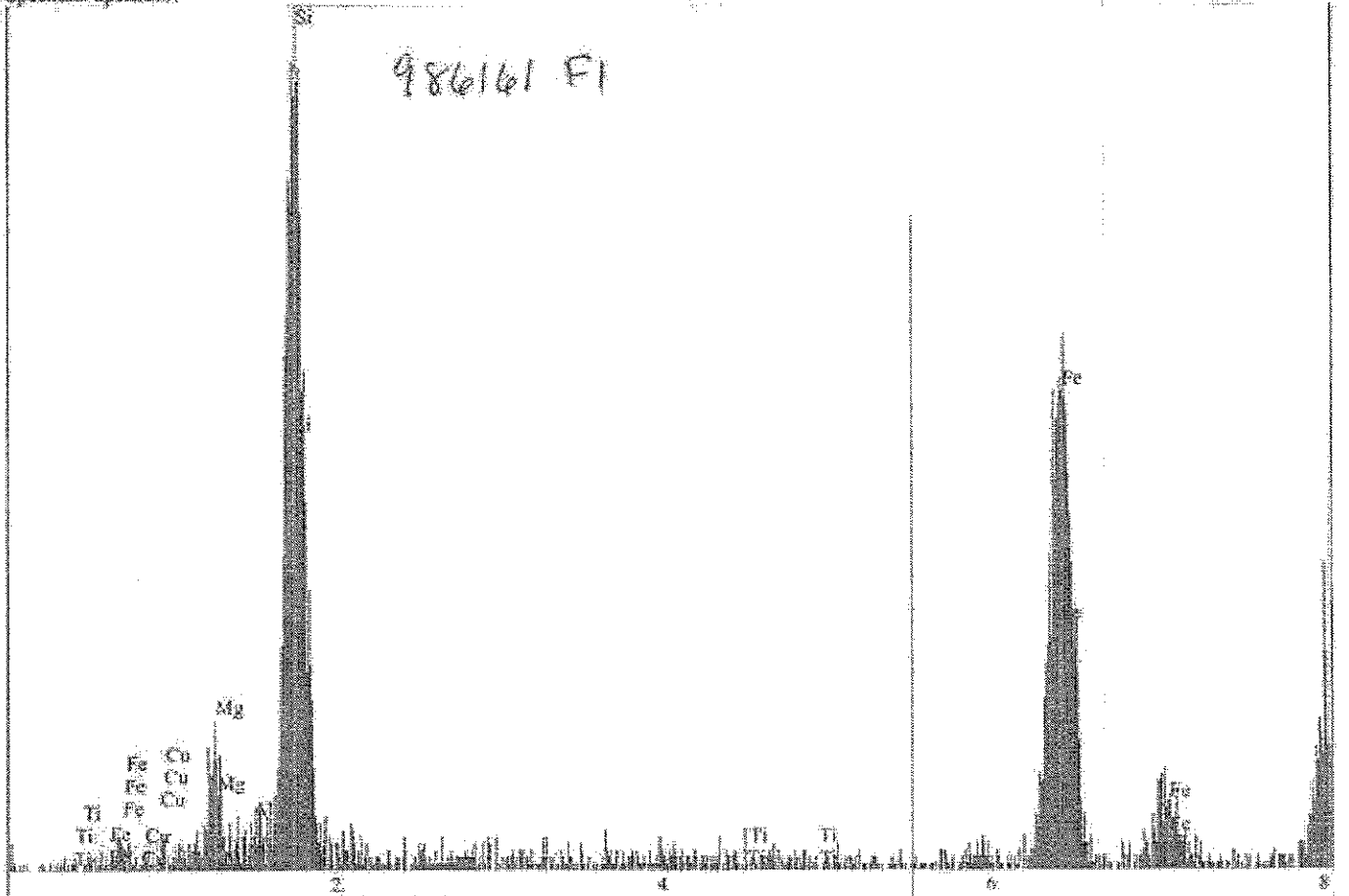
Mass of residue suspended (mg)	101.5
Volume of water (mL)	100
Volume applied to filter (mL)	0.2

QA Type (Not OA; Recount Same; Recount; Diff. Re-prep; Verified Anal; Recount; Lab Blank)

Grid	Grid Opening	Structure Type	No. of Structures		Dimensions			Mineral Class (see below)			Sketch/Comments			1 = yes; blank = no	
			Primary	Total	Length	Width	LA	OA	C	Sketch	Photo	EDS			
A	E23	ND													
	C5-6	ND													
	E64	F		1	5.5	3			✓						
	F53	F		2	10	6			✓						
	H5-1	ND													
B	H3-3	ND													
	K31	ND													
	K4-3	ND													
	H5-4	ND													
	G5-6	ND													

LA = Libby-type amphibole OA = Other (non-Libby type) amphibole C = Chlorite A+B 20-25% volume

986161 FI



Cursor=8.025 keV 27 cts ID#For B4 Cu ka2 Jr III Cu kal
 Vmax=126 Window 0.005 - 40.955= 5912 cts

El.	Line	Intensity (c/s)	Error 2-sig	Conc	
Mg	Ka	1.21	0.283	0.000	wt. %
Al	Ka	0.26	0.133	0.000	wt. %
Si	Ka	9.98	0.816	0.000	wt. %
Ti	Ka	0.13	0.093	0.000	wt. %
Fe	Ka	7.97	0.729	0.000	wt. %
Cu	Ka	9.33	0.789	0.000	wt. %
				0.000	wt. %

Total

kV 100.0
 Takeoff Angle 90.0°
 Elapsed Livetime 37.6

EQM Fort Chaffee Soil
TEM Asbestos Structure Count for SOP EPA-LIBBY-03 (Soil by EPA 800)

Laboratory name:	Reservoir's
Instrument:	JEOL 100 CX
Voltage (KV)	100
Magnification:	200X
Grid opening area (mm ²)	0.011
Scale: 1L =	0.28
Scale: 1D =	0.056
Primary filter area (mm ²)	385
Gravimetric Reduction Ratio (GRR)	
Category (Field, Rep., Dup., Blank)	Field
Primary filter pore size (um)	0.22

EPA Sample Number	P-SE-A-1
Sample Type	Soil
Date received by lab	7/23/2005
Lab Job Number	116328
Lab Sample Number	986162
Number of grids prepared	3
Prepared by	JSC/MH
Preparation date	7/24/2005
EPA COC Number:	050111-119
Secondary filter pore size (um)	0.22

Analyzed by	JSO
Analysis date	7/29/2005
Method (SOP)	EPA-LIBBY-03

Grid storage location	116328
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Mass of residue suspended (mg)	103
Volume of water (mL)	100
Volume applied to filter (mL)	0.2

Lab Type (Not QA, Recount Same, Recount)
 Dir. Rec'd, Verified Anal, Recount, Lab (Blank)

Grid	Grid Opening	Structure Type	No. of Structures		Dimensions			Mineral Class (see below)			Sketch/Comments			1 = yes, blank = no			
			Primary	Total	Length	Width		LA	OA	C	Sketch	Photo	EDS				
A	G4-1	ND															
	B3-6	ND															
	F4-3	ND															
	B5-4	ND															
B	G6-4	ND															
	G3-1	ND															
	H3-3	ND															
	G4-1	ND															
	F4-6	ND															
	E4-6	ND															

LA = Libby-type amphibole OA = Other (non-Libby type) amphibole C = Chrysotile 20-25% of debris

EOM Fort Claiborne Soil
TEM Astbestos Structure Count for SOP EPA-LIBBY-03 (Soil by EPA 800)

Laboratory name	Reservoirs
Instrument	JECO 100 CX
Voltage (KV)	100
Magnification	2000X
Grid opening area (mm ²)	0.011
Scale: 1L =	0.22
Scale: 1D =	0.085
Primary filter area (mm ²)	385
Gravimetric Reduction Ratio (GRR)	0.89
Category (Field, Rep., Dup., Blank)	Field
Primary filter pore size (um)	0.22

EPA Sample Number	P-S-S-A-4
Sample Type	Soil
Date received by lab	7/23/2005
Lab Job Number	11328
Lab Sample Number	988163
Number of grids prepared	3
Prepared by	JSO/MTC
Preparation date	7/24-28/05
EPA COS Number	060111-115
Secondary filter pore size (um)	0.22

Analyzed by	JSO
Analysis date	7/29/2005
Method (SOP)	EPA-LIBBY-03

Grid storage location	118928
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Mass of residue suspended (mg)	100.4
Volume of water (mL)	100
Volume applied to filter (mL)	0.2

OA Type (Not OA, Recount Same, Receipt, Out, Receipts, Unlabeled, Receipt, Lab, Blank)

Grid	Grid Opening	Structure Type	No. of Structures		Dimensions			Mineral Class (see below)			Sketch/Comments			1 = yes, blank = no		
			Primary	Total	Length	Width	LA	OA	G	Sketch	Photo	EDS				
A	E5-1	ND														
	04-3	ND														
	05-4	ND														
	05-3	ND														
	06-4	ND														
B	06-4	ND														
	E5-4	ND														
	04-6	ND														
	E5-6	ND														
	E6-6	ND														

20-25% debris

OA = Other (non-Libby type) amphibole G = Chlorite

LA = Libby-type amphibole

**EQM Fert Chaffee Soil
TEM Asbestos Structure Count for SOP EPA-LIBBY-03 (Soil by EPA #00)**

Analyzed by	JSD
Analysis date	7/29/2005
Method (SOP)	EPA-LIBBY-03

EPA Sample Number	P-S-AM-A-2
Sample Type	Soil

Date received by lab	7/23/2005
Lab Job Number	118326
Lab Sample Number	388164
Number of grids prepared	3
Prepared by	JSC/MH
Preparation date	7/24-29/05
EPA COC Number	05011-115
Secondary filter pore size (um)	0.22

Laboratory equip	Reservoirs
Instrument	JEOL 100 CX
Voltage (KV)	100
Magnification	200X
Grid opening area (mm ²)	0.011
Scale: 1L =	0.28
Scale: 1D =	0.056
Primary filter area (mm ²)	385
Gravimetric Reduction Ratio (GRR)	
Category (Field, Rep., Dup., Blank)	Field
Primary filter pore size (um)	0.22

Grid storage location	118326
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Mass of residue suspended (mg)	103.1
Volume of water (mL)	100
Volume applied to filter (mL)	0.2

COC Type (Not OK, Resour. Same, Resour. Diff, Re-prep, Verified Anal, Re-anal, Lab, Blank)

G/ID	Grid Opening	Structure Type	No. of Structures		Dimensions			Mineral Class (see below)			Sketch/Comments			1 = yes, blank = no			
			Primary	Total	Length	Width	LA	OA	C	Sketch	Photo	EDS					
A	C6-3	ND															
	B5-4	ND															
	B4-4	ND															
	B3-4	ND															
	F2-6	ND															
B	E2-4	ND															
	G2-6	ND															
	G3-1	ND															
	H3-3	ND															
	K4-1	ND															

LA = Libby-type amphibole OA = Other (non-Libby type) amphibole C = Chrysotile



Reservoirs Environmental, Inc.

2059 Bryant St. Denver, CO 80211
(303) 964-1986 Fax (303) 477-4275 Toll Free (866) RESI-ENV

Environmental Quality Management

Final Report

September 8, 2005

RES 118329, 118327

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Reservoirs Environmental, Inc.

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(303) 964-1986 Fax (303) 477-4275 Toll Free (866) RESI-ENV

September 8, 2005

Laboratory Code: RES
Laboratory Report: RES 118329, 118327
Project Description: USEPA Building
Demolition Evaluation
Project Building 3602
and 3607

John Kominsky
Environmental Quality Management
1800 Carillon Blvd.
Cincinnati OH 45240

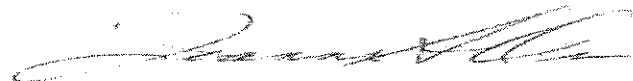
Dear Mr. Kominsky,

Reservoirs Environmental, Inc. is an analytical laboratory accredited for the analysis of Industrial Hygiene and Environmental matrices by the National Voluntary Laboratory Accreditation Program (NVLAP), Lab Code # 101896 and the American Industrial Hygiene Association (AIHA), Lab ID 101533 - Accreditation Certificate #480. This laboratory is currently proficient in both Proficiency Testing and PAT programs respectively

Reservoirs Environmental, Inc. has analyzed the following samples for asbestos content as per your request. The analysis has been completed in general accordance with the appropriate methodology as stated in the attached analysis table. The results have been submitted to your office.

RES 118329, 118327 is a revised job number assigned to this study. The revised report includes additional analyses per the clients request. This report is considered highly confidential and the sole property of the customer Reservoirs Environmental, Inc. will not discuss any part of this study with personnel other than those of the client. The results described in this report only apply to the samples analyzed. This report must not be used to claim endorsement of products or analytical results by NVLAP or any agency of the U.S. Government. This report shall not be reproduced except in full, without written approval from Reservoirs Environmental, Inc. Samples will be disposed of after sixty days unless longer storage is requested. If you have any questions about this report, please feel free to call 303-964-1986.

Sincerely,



Jeanne Spencer Orr
President



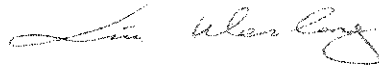
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Analyst Signature Page


RES 118329, 118327

PLM Analyst:



Liu Wenlong

TEM Analyst:



Paul D. LoScalzo



Reservoirs Environmental, Inc.

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Case Narrative

RES 118329, 118327

Samples were relinquished to the laboratory in appropriately sealed containers. The customer Chain of Custody containing all client information is signed upon receipt, then transferred to Reservoirs Environmental, Inc Chain of Custody. The sample set was assigned a unique batch RES job number and EM sample number respectively. Client data information was entered into the Laboratory's Information Management System.

PLM Analysis was conducted in accordance with "Method for the Determination of Asbestos in Bulk Building Materials" EPA 600/R-93/116. Samples received for PLM analysis were examined by stereo microscopy at 6 to 60X magnification. The analyst determined the general description of the sample, the number and percent of separable layers and then determined the percent asbestos by layer if it was visible by stereo microscopy. The analyst then prepared multiple slides of each individual layer in the appropriate refractive index oil for examination in the polarized light microscope. The optical properties of the minerals present were used to identify the type of asbestos present in the sample. A combination of the amount of asbestos observed in the stereo microscope and the amount of asbestos observed in the slide preparations was compared to known standards, reference charts and analyst experience to define a range of asbestos observed in that layer. For example, if the analyst recorded an asbestos range of 1-5% and an estimate of 4%, this means that the layer definitely contained above 1% and the best estimate was 4%. The method provides a calibrated visual estimate, not an exact result.

The PLM method was designed to determine if asbestos was in a building material above the 1% level. Building materials, especially compounds applied wet such as joint compound and ceiling spray-on can vary tremendously from sample to sample. It is not unusual for two samples of the same material to vary in visual estimate by 50% or more when the actual asbestos content is below 10%. For that reason multiple samples are required of the sampling team and the analysts record a concentration range. Individual asbestos fibrils are not visible by PLM and will not be detected by this method.

Each sample was analyzed by layer and the layers were reported separately. Paint and plaster were reported as one layer if the two could not reasonably be separated. The visual range of asbestos present and the analyst's visual estimate were recorded and results are presented in Table 1. Selected samples were point counted (400 points) using a cross hair and random selection of the fields. Gravimetric reduction was not done on the point count samples prior to the point count analysis. Results are presented in Table 2.

EPA 600/R-93/116 allows for the compositing of layers of drywall and joint compound but does not define a method for sampling. For the purposes of this study, drywall and joint compound were sub-sampled for consistency and direct comparison according to the following: Drywall was sub sampled equal to the width of the seam from both sides of the seam. Joint compound and tape above the seam were observed and included in the sub-sample. In this way, 58-63% of the sample was drywall, 35-40% of the sample was joint compound and 2-5% of the sample was tape and/or paint. Layers were analyzed separately.

Gravimetric TEM analysis was performed on selected samples and analyzed in accordance with EPA 600/R-93/116. A portion of asbestos containing layer was removed from the sample, weighed then ashed overnight at 480°C to remove any organic matrix. The ashed residue was acidified to remove carbonaceous material then collected on a filter and weighed. The gravimetric reduction ratio was calculated. The starting weights and gravimetric reduction data are included in Table 3. The residue was examined by TEM and a visual estimate of the asbestos present in the residue was recorded.

All fiber sizes are visible by TEM allowing the detection of individual fibrils that are not visible by PLM. The visual estimate was based on standards, reference charts and analyst experience. The asbestos concentration range was calculated from the gravimetric reduction data and is included in Table 1. Composite results were calculated based on the sub-sample proportions and are included in Table 1.

References:

Method for the Determination of Asbestos in Bulk Building Materials, EPA/600/R-93-116.

RESERVOIRS ENVIRONMENTAL, INC.

NVLAP Accredited Laboratory # 101896
 TDH Licensed Laboratory # 30-0136

TABLE I PLM/TEM BULK ANALYSIS

RES Job Number: RES 118329, 118327
 Client: Environmental Quality Management
 Client Project Description: USEPA Building Demolition Evaluation Project Building 3602 and 3607
 Date Samples Received: July 25, 2005
 Date Samples Collected: July 21, 2005
 Analysis Type: EPA 600/R-93/116
 Turnaround: Standard
 Date Analyzed: July 26, 2005, August 16, 2005, August 18, 2005

Client Sample Number	Lab ID Number	Physical Description	Sub Part (%)	PLM Asbestos Content			TEM Asbestos Content			Non-Asbestos Fibers Components (%)	Non-Fibrous Components (%)
				Mineral	Visual Range (%)	Visual Estimate (%)	Overall Gravimetric Reduction Ratio	Calculated Range (%)			
3602-RS-01A	EM 986208	A Red/orange shingle	50			ND	NA	NA	5	95	
		B Black/multi-colored shingle	50			ND	NA	NA	5	95	
3602-RS-01B	EM 986209	A Red/orange shingle	50			ND	NA	NA	5	95	
		B Black/multi-colored shingle	50			ND	NA	NA	5	95	
3602-RS-01C	EM 986210	A Red/orange shingle	50			ND	NA	NA	5	95	
		B Black/multi-colored shingle	50			ND	NA	NA	5	95	
3602-RS-01D	EM 986211	A Red/orange shingle	50			ND	NA	NA	5	95	
		B Black/multi-colored shingle	50			ND	NA	NA	5	95	
3602-RF-01A	EM 986212	A Black felt	100			ND	NA	NA	50	50	
3602-RF-01B	EM 986213	A Black felt	100			ND	NA	NA	50	50	
3602-RF-01C	EM 986214	A Black felt	100			ND	NA	NA	50	50	
3602-RF-01D	EM 986215	A Black felt	100			ND	NA	NA	50	50	
3602-RFC-02A	EM 986216	A Brown mastic	2			ND	NA	NA	0	100	
		B Tan mastic	3			ND	NA	NA	0	100	
		C Black felt	30			ND	NA	NA	50	50	
		D Red/multi-colored linoleum	65	Chrysotile	15-25	18	NA	NA	2	80	
3602-RFC-02B	EM 986217	A Brown mastic	1			ND	NA	NA	0	100	
		B Tan mastic	2			ND	NA	NA	0	100	
		C Black felt	7			ND	NA	NA	50	50	
		D Red/multi-colored linoleum	90	Chrysotile	15-25	18	NA	NA	2	80	
3602-RFC-02C	EM 986218	A Brown mastic	2			ND	NA	NA	0	100	
		B Black felt	5			ND	NA	NA	50	50	
		C Red/multi-colored linoleum	93	Chrysotile	15-25	18	NA	NA	2	80	
3602-RFC-02C	EM 986219	A Brown mastic	1			ND	NA	NA	0	100	
		B Red/multi-colored linoleum	99	Chrysotile	15-25	18	NA	NA	2	80	

ND = None Detected
 TR = Tracc. < 1% Visual Estimate
 NA = Not Analyzed
 Trem-Act = Tremolite-Actinolite
 Chrysotile
 Data QA

RESERVOIRS ENVIRONMENTAL, INC.

NVLAP Accredited Laboratory # 101896
 TDH Licensed Laboratory # 30-0136

TABLE I PLM/TEM BULK ANALYSIS

RES Job Number: RES 118329, 118327
 Client: Environmental Quality Management
 Client Project Description: USEPA Building Demolition Evaluation Project Building 3602 and 3607
 Date Samples Received: July 25, 2005
 Date Samples Collected: July 21, 2005
 Analysis Type: EPA 600/R-93/116
 Turnaround: Standard
 Date Analyzed: July 26, 2005, August 16, 2005, August 18, 2005

Client Sample Number	Lab ID/Number	L A Y E R	Physical Description	Sub Part (%)	PLM Asbestos Content			TEM Asbestos Content			Non-Asbestos Fibers Components (%)	Non-Fibrous Components (%)
					Mineral	Visual Range (%)	Visual Estimate (%)	Overall Gravimetric Reduction Ratio	Calculated Range (%)			
3602-FT-03A	EM 986220	A	Black mastic	2	Chrysotile	10-20	15	NA	0.22	NA	0	100
		B	Brown tile	98								
3602-FT-03B	EM 986221	A	Black mastic w/ tan leveler	4	Chrysotile	10-20	15	NA	0.22	NA	0	100
		B	Brown tile	96								
3602-FT-03C	EM 986222	A	Brown tile w/ black mastic	100	Chrysotile	10-20	15	0.22	18-20	TR	85	85
3602-FT-03D	EM 986223	A	Black mastic	2	Chrysotile	10-20	15	NA	0.22	NA	5	95
		B	Brown tile	98								
3602-B1-04A	EM 986224	A	Brown insulation	100			ND	NA	NA	80	20	20
3602-B1-04B	EM 986225	A	Brown insulation	100			ND	NA	NA	80	20	20
3602-B1-04C	EM 986226	A	Brown insulation	100			ND	NA	NA	80	20	20
3602-B1-04D	EM 986227	A	Brown insulation	100			ND	NA	NA	80	20	20
3602-WG-05A	EM 986228	A	White glaze w/ tan paint	100	Chrysotile		ND	0.03	TR < 0.03	0	100	100
3602-WG-05B	EM 986229	A	White glaze w/ tan/yellow paint	100	Trem-Act.		ND	0.21	TR < 0.21	0	100	100
3602-WG-05C	EM 986230	A	White glaze w/ tan paint	100	Chrysotile	TR	TR	0.11	7.9 - 9.0	TR	0	100
3602-WG-05D	EM 986231	A	White glaze w/ tan paint	100	Chrysotile		ND	0.03	TR < 0.03	0	100	100
3602-JC-06A*	EM 986232	A	White tape	2	Chrysotile	1-5	3	NA	0.18	NA	95	5
		B	White joint compound w/ white/green paint	35								
		C	Tan/white drywall	63								
3602-JC-06B*	EM 986233	A	White tape	2	Chrysotile	1-5	3	NA	0.27	NA	95	5
		B	White joint compound w/ white/green paint	35								
		C	Tan/white drywall	63								
					Composite		ND	NA	2-3	10	90	90

ND = None Detected
 TR = Trace, < 1% Visual Estimate

NA = Not Analyzed
 Trem-Act = Tremolite-Actinolite

Quality System
 Certificate
 No. 0000000000
 12/26/04
 Data QA

RESERVOIRS ENVIRONMENTAL, INC.

NV/LAP Accredited Laboratory # 101886
 TDH Licensed Laboratory # 30-0136

TABLE 1 PLM/TEM BULK ANALYSIS

RES Job Number: RES 118329, 118327
 Client: Environmental Quality Management
 Client Project Description: USEPA Building Demolition Evaluation Project Building 3602 and 3607
 Date Samples Received: July 25, 2005
 Date Samples Collected: July 21, 2005
 Analysis Type: EPA 600/R-93/116
 Turnaround: Standard
 Date Analyzed: July 26, 2005, August 16, 2005, August 18, 2005

Client Sample Number	Lab ID Number	Physical Description	Sub Part (%)	PLM Asbestos Content			TEM Asbestos Content			Non-Asbestos Fibers Components (%)	Non-Fibrous Components (%)
				Mineral	Visual Range (%)	Visual Estimate (%)	Overall Gravimetric Reduction Ratio	Calculated Range (%)			
3602-JC-06C*	EM 986234	A White tape	2			ND	NA	NA	95	5	
		B White joint compound w/ white/green paint	35	1-5	3	0.26	8-10	0	0	97	
		C Tan/white drywall	63	Composite	ND	NA	3-4	10	90		
3602-JC-06D*	EM 986235	A White tape	2			ND	NA	NA	95	5	
		B White joint compound w/ white/pink paint	35	1-5	3	0.23	8-10	0	0	97	
		C Tan/white drywall	63	Composite	ND	NA	3-4	10	90		
3602-SC-07A	EM 986236	A White/pink paint w/ tan paint	5	TR	TR	0.36	TR - < 0.4	0	0	100	
		B Tan/white drywall	95		ND	NA	NA	10	90		
3602-SC-07B	EM 986237	A Tan/white drywall w/ white/green paint	100		ND		TR - < 0.3	10	90		
3602-SC-07C	EM 986238	A White/green paint w/ tan plaster	5	TR	TR	0.36	0.4 - 2	0	0	100	
		B Tan/white drywall	95		ND	NA	NA	10	90		
3602-SC-07D	EM 986239	A Tan/white drywall w/ white/green paint	100		ND	0.30	TR - < 0.3	10	90		
3607-RS-07A	EM 986240	A Red/orange shingle	50		ND	NA	NA	5	5	95	
		B Black/multi-colored shingle	50		ND	NA	NA	5	5	95	
3607-RS-07B	EM 986241	A Black/multi-colored shingle	50		ND	NA	NA	5	5	95	
		B Black felt	50		ND	NA	NA	50	50	50	
3607-RS-07C	EM 986242	A Red/orange shingle	50		ND	NA	NA	5	5	95	
		B Black/multi-colored shingle	50		ND	NA	NA	5	5	95	
3607-RS-07D	EM 986243	A Red/orange shingle	50		ND	NA	NA	5	5	95	
		B Black/multi-colored shingle	50		ND	NA	NA	5	5	95	

ND = None Detected
 TR = Trace, < 1% Visual Estimate

NA = Not Analyzed
 Trem-Act = Tremolite-Actinolite

Quality Control
 Date: 8/18/05
 Analyst: [Signature]
 Data QA

RESERVOIRS ENVIRONMENTAL, INC.

NVLAP Accredited Laboratory # 101896
 TDH Licensed Laboratory # 30-0136

TABLE I PLM/TEM BULK ANALYSIS

RES Job Number: RES 118329, 118327
Client: Environmental Quality Management
Client Project Description: USEPA Building Demolition Evaluation Project Building 3602 and 3607
Date Samples Received: July 25, 2005
Date Samples Collected: July 21, 2005
Analysis Type: EPA 600/R-93/116
Turnaround: Standard
Date Analyzed: July 26, 2005, August 16, 2005, August 18, 2005

Client Sample Number	Lab ID Number	L A Y E R	Physical Description	Sub Part (%)	PLM Asbestos Content			TEM Asbestos Content			Non-Asbestos Fibers Components (%)	Non-Fibrous Components (%)
					Mineral	Visual Range (%)	Visual Estimate (%)	Overall Gravimetric Reduction Ratio	Calculated Range (%)			
3607-RF-01A	EM 986244	A	Black felt	100		ND	NA	NA	NA	50	50	
3607-RF-01B	EM 986245	A	Red/orange shingle	100		ND	NA	NA	NA	5	95	
3607-RF-01C	EM 986246	A	Black felt	100		ND	NA	NA	NA	50	50	
3607-RF-01D	EM 986247	A	Black felt	100		ND	NA	NA	NA	50	50	
3607-RFC-02A	EM 986248	A	Brown mastic	2		ND	NA	NA	NA	0	100	
		B	Black felt	8		ND	NA	NA	NA	50	50	
		C	Red/multi-colored linoleum	90	Chrysotile	18	15-25	18	NA	2	80	
3607-RFC-02B	EM 986249	A	Yellow mastic	1		ND	NA	NA	NA	0	100	
		B	Red/multi-colored linoleum	99	Chrysotile	18	15-25	18	NA	2	80	
3607-RFC-02C	EM 986250	A	Brown mastic	5		ND	NA	NA	NA	0	100	
		B	Black felt	25		ND	NA	NA	NA	50	50	
		C	Red/multi-colored linoleum	70	Chrysotile	18	15-25	18	NA	2	80	
3607-RFC-02D	EM 986251	A	Brown mastic	2		ND	NA	NA	NA	0	100	
		B	Black felt	8		ND	NA	NA	NA	50	50	
		C	Red/multi-colored linoleum	90	Chrysotile	18	15-25	18	NA	2	80	
3607-FT-03A	EM 986252	A	Black mastic	2		ND	NA	NA	NA	2	98	
		B	Brown tile	98	Chrysotile	15	10-20	15	0.23	0	85	
3607-FT-03B	EM 986253	A	Black mastic	2		TR	TR	TR	NA	0	100	
		B	Brown tile	98	Chrysotile	15	10-20	15	0.27	0	85	

ND = None Detected
 TR = Tracc. < 1% Visual Estimate

NA = Not Analyzed
 Trem-Act = Tremolite-Actinolite

Quality signed
 Analyzed by
 Date
 7/26/05
 10:00
 Data QA

RESERVOIRS ENVIRONMENTAL, INC.

NVLAP Accredited Laboratory # 101886
 TDH Licensed Laboratory # 30-0136

TABLE I PLM/TEM BULK ANALYSIS

RES Job Number: RES 118329, 118327
 Client: Environmental Quality Management
 Client Project Description: USEPA Building Demolition Evaluation Project Building 3602 and 3607
 Date Samples Received: July 25, 2005
 Date Samples Collected: July 21, 2005
 Analysis Type: EPA 600/R-93/116
 Turnaround: Standard
 Date Analyzed: July 26, 2005, August 16, 2005, August 18, 2005

Client Sample Number	Lab ID Number	L A Y E R	Physical Description	Sub Part (%)	PLM Asbestos Content			TEM Asbestos Content			Non-Asbestos Fibers Components (%)	Non-Fibrous Components (%)
					Mineral	Visual Range (%)	Visual Estimate (%)	Overall Gravimetric Reduction Ratio	Calculated Range (%)			
3607-FT-03C	EM 986254	A	Black mastic	2	Chrysotile	TR	TR	NA	NA	0	100	
		B	Gray leveler	8	Chrysotile	TR	TR	NA	NA	0	100	
		C	Brown tile	90	Chrysotile	10-20	15	0.17	14-15	0	85	
3607-FT-03D	EM 986255	A	Black mastic	2	Chrysotile	10-20	15	NA	NA	0	100	
		B	Brown tile	98	Chrysotile	10-20	15	0.23	19-21	0	85	
3607-BI-04A	EM 986256	A	Brown/tan insulation	100		ND	ND	NA	NA	80	20	
3607-BI-04B	EM 986257	A	Brown insulation	100		ND	ND	NA	NA	80	20	
3607-BI-04C	EM 986258	A	Brown insulation	100		ND	ND	NA	NA	80	20	
3607-BI-04D	EM 986259	A	Brown insulation	100		ND	ND	NA	NA	80	20	
3607-WG-05A	EM 986260	A	White glaze w/ tan paint	100	Trem-Act.	ND	ND	0.14	TR < 0.14	0	100	
3607-WG-05B	EM 986261	A	White glaze w/ tan paint	100	Trem-Act.	ND	ND	0.05	TR < 0.05	0	100	
3607-WG-05C	EM 986262	A	White glaze w/ tan paint	100	Chrysotile /Trem-Act.	ND	ND	0.04	TR < 0.04	0	100	
3607-WG-05D	EM 986263	A	White glaze w/ tan paint	100	Chrysotile /Trem-Act.	ND	ND	0.02	TR < 0.02	0	100	
3607-JC-06A*	EM 986264	A	White tape	2		ND	ND	NA	NA	95	5	
		B	White joint compound w/ white/pink paint	35	Chrysotile	1-5	3	0.45	11-16	0	97	
		C	Tan/white drywall	63	Composite		ND	NA	4-6	10	90	
3607-JC-06B*	EM 986265	A	White tape	2		ND	ND	NA	NA	95	5	
		B	White joint compound w/ white/green paint	35	Chrysotile	1-5	3	0.48	14-19	0	97	
		C	Tan/white drywall	63	Composite		ND	NA	5-7	10	90	

ND = None Detected
 TR = Traces, < 1% Visual Estimate

NA = Not Analyzed
 Trem-Act = Tremolite-Actinolite

Digital Report
 Generated
 08/26/2005 11:52:00 AM

 Data QA

RESERVOIRS ENVIRONMENTAL, INC.

NVLAP Accredited Laboratory # 101896
 TDH Licensed Laboratory # 30-0136

TABLE 1 PLM/TEM BULK ANALYSIS

RES Job Number: RES 118329, 118327
 Client: Environmental Quality Management
 Client Project Description: USEPA Building Demolition Evaluation Project Building 3602 and 3607
 Date Samples Received: July 25, 2005
 Date Samples Collected: July 21, 2005
 Analysis Type: EPA 600/R-93/116
 Turnaround: Standard
 Date Analyzed: July 26, 2005, August 16, 2005, August 18, 2005

Client Sample Number	Lab ID Number	L A Y E R	Physical Description	Sub Part (%)	PLM Asbestos Content			TEM Asbestos Content			Non-Asbestos Fibers Components (%)	Non-Fibrous Components (%)
					Mineral	Visual Range (%)	Visual Estimate (%)	Overall Gravimetric Reduction Ratio	Calculated Range (%)			
3607-JC-06C*	EM 986266	A	White tape	2		ND	NA	NA	NA	95	5	
		B	White joint compound w/ white/green paint	40	1-5	3	0.51	10-15	0	0	97	
		C	Tan/white drywall	58	Composite	ND	NA	4-6	10	10	90	
3607-JC-06D*	EM 986267	A	White tape	2		ND	NA	NA	NA	95	5	
		B	White joint compound w/ white/green paint	35	1-5	3	0.48	12-17	0	0	97	
		C	Tan/white drywall	63	Composite	ND	NA	4-6	10	10	90	
3607-SC-07A	EM 986268	A	White/pink paint w/ tan plaster	5	TR	TR	NA	NA	0	0	100	
		B	Tan/white drywall	95		ND	NA	NA	10	10	90	
3607-SC-07B	EM 986269	A	Tan/white drywall w/ white/green paint	100		ND	NA	NA	10	10	90	
3607-SC-07C	EM 986270	A	White/green paint w/ tan plaster	5	TR	TR	NA	NA	0	0	100	
		B	Tan/white drywall	95		ND	NA	NA	10	10	90	
3607-SC-07D	EM 986271	A	Tan/white drywall w/ white/green paint	100		ND	NA	NA	10	10	90	

* Sub sample percent is controlled for samples.

ND = None Detected
 TR = Trace, < 1% Visual Estimate

NA = Not Analyzed
 Trem-Act = Tremolite-Actinolite

[Signature]
 Digitally signed by
 Stacy Sandlin
 Date: 2005.08.08
 17:40:28 -0600
 Data QA

TABLE II PLM BULK ANALYSIS, PERCENTAGE COMPOSITION BY POINT COUNT

RES Job Number: **RES 118329, 118327**
 Client: **Environmental Quality Management**
 Client Project Description: **USEPA Building Demolition Evaluation Project Building 3**
 Date Samples Received: **July 25, 2005**
 Date Samples Collected: **July 21, 2005**
 Analysis Type: **PLM, Point Count**
 Turnaround: **Standard**
 Date Analyzed: **August 3, 2005**

Analyst: LW

Client Sample Number	Lab ID Number	LAYER ANALYZED	ASBESTOS MINERAL	ASBESTOS CONTENT Point Count (%)
3602-WG-05C	EM 986230	A	Chrysotile	0.50
3602-JC-06A	EM 986232	B	Chrysotile	1.50
3602-JC-06B	EM 986233	B	Chrysotile	2.25
3602-JC-06C	EM 986234	B	Chrysotile	2.00
3602-JC-06D	EM 986235	B	Chrysotile	3.00
3602-SC-07A	EM 986236	A	Chrysotile	< 0.25
3602-SC-07C	EM 986238	A	Chrysotile	0.50
3607-JC-06A	EM 986264	B	Chrysotile	1.75
3607-JC-06B	EM 986265	B	Chrysotile	2.50
3607-JC-06C	EM 986266	B	Chrysotile	2.00
3607-JC-06D	EM 986267	B	Chrysotile	3.50
3607-SC-07A	EM 986268	A	Chrysotile	< 0.25
3607-SC-07C	EM 986270	A	Chrysotile	< 0.25

ND = None Detected

Trace = Asbestos observed but not counted under point count protocol, less than 0.25%

Point Count Analysis was performed only on the asbestos containing layer

Gravimetric Reduction Analysis was not performed before point count analysis

ND = None Detected
 TR = Trace, < 1% Visual Estimate

Trem-Act = Tremolite-Actinolite

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Data QA

Table III GRAVIMETRIC REDUCTION DATA SHEET

Lab Name:	Reservoirs
Lab Job No.:	118327

EPA Sample Index Number	Lab Sample Number	Sample Ashing						Acid Grinding followed by Filtration				Overall Grav. Reduction Ratio (GRR)	TEM Visual Estimate (Range %)	Final Calculated Percent Range in Original Sample
		Weight (g. to the nearest 0.01g)		GRR from Ashing		Weight (g. to the nearest 0.01g)		GRR from Acid grinding						
		Crucible	Crucible + Sample	Original Sample Mass	Crucible + Ashed Sample	Ashed residue	GRR from Ashing	Filter + Dish + Residue	Filtered Residue	GRR from Acid grinding				
3602-FT-03A	986252	15.83	16.19	0.37	16.12	0.29	0.79	0.02	0.10	0.08	0.29	0.23	80 - 90	18.4 - 20.6
3602-FT-03B	986253	16.95	18.07	1.13	17.84	0.89	0.79	0.02	0.32	0.30	0.34	0.27	80 - 90	21.3 - 24.0
3602-FT-03C	986254	15.14	17.31	2.18	17.07	1.93	0.89	0.02	0.38	0.37	0.19	0.17	80 - 90	13.5 - 15.2
3602-FT-03D	986255	15.98	17.37	1.39	17.07	1.10	0.79	0.02	0.34	0.32	0.29	0.23	80 - 90	18.5 - 20.8
3602-JC-06A	986264	17.21	17.31	0.10	17.30	0.09	0.90	0.02	0.06	0.04	0.50	0.45	25 - 35	11.2 - 15.7
3602-JC-06B	986265	16.62	16.97	0.15	16.95	0.14	0.92	0.02	0.09	0.07	0.52	0.48	30 - 40	14.3 - 19.0
3602-JC-06C	986266	16.28	16.36	0.09	16.35	0.08	0.89	0.02	0.06	0.04	0.57	0.51	20 - 30	10.2 - 15.3
3602-JC-06D	986267	16.87	17.04	0.16	17.02	0.15	0.91	0.02	0.09	0.08	0.53	0.48	25 - 35	12.0 - 16.8

Calculations:

GRR from ashing = Ashed residue / Original Sample Mass

GRR from Acid grinding = Filtered Residue / Ashed residue

Overall Grav. Reduction Ratio (GRR) = GRR from Ashing X GRR from Acid grinding

Final Calculated Percent Range in Original Layer = TEM Visual Estimate (Range%) X Overall Grav. Reduction Ratio (GRR)

Table III GRAVIMETRIC REDUCTION DATA SHEET

Lab Name: Reservoirs
 Lab Job No.: 118329

EPA Sample Index Number	Lab Sample Number	Sample Ashing					Acid Grinding followed by Filtration				Overall Grav. Reduction Ratio (GRR)	TEM Visual Estimate (Range %)	Final Calculated Percent Range in Original Sample	
		Weight (g, to the nearest 0.01g)		GRR from Ashing		GRR from Acid grinding	Weight (g, to the nearest 0.01g)							
		Crucible	Crucible + Sample	Original Sample Mass	Crucible + Ashed Sample		Ashed residue	GRR from Ashing	Filter + Dish + Residue	Filtered Residue				
3607-FT-03A	986220	17.41	18.48	1.07	18.26	0.85	0.80	0.27	0.23	0.25	0.23	0.27	80 - 90	17.3 - 19.5
3607-FT-03B	986221	16.87	17.46	0.59	17.35	0.48	0.81	0.27	0.13	0.14	0.13	0.27	80 - 90	17.3 - 19.5
3607-FT-03C	986222	16.31	17.59	1.28	17.34	1.02	0.80	0.28	0.29	0.30	0.29	0.28	80 - 90	17.9 - 20.1
3607-FT-03D	986223	16.58	17.28	0.70	17.14	0.56	0.80	0.28	0.16	0.17	0.16	0.28	80 - 90	17.9 - 20.1
3607-JC-06A	986232	15.98	16.10	0.12	16.06	0.08	0.72	0.25	0.02	0.04	0.02	0.25	25 - 35	4.4 - 6.2
3607-JC-06B	986233	16.91	17.02	0.11	17.01	0.10	0.88	0.30	0.03	0.05	0.03	0.30	25 - 35	6.6 - 9.3
3607-JC-06C	986234	16.39	16.64	0.25	16.62	0.23	0.90	0.29	0.06	0.08	0.06	0.29	30 - 40	7.8 - 10.4
3607-JC-06D	986235	16.37	16.52	0.14	16.50	0.13	0.88	0.26	0.03	0.05	0.03	0.26	35 - 45	7.9 - 10.2
3607-SC-07A	986236	17.76	17.85	0.09	17.83	0.07	0.77	0.46	0.03	0.05	0.03	0.46	< 1	< 0.4
3607-SC-07B	986237	16.33	16.43	0.09	16.40	0.07	0.72	0.42	0.03	0.04	0.03	0.42	< 1	< 0.3
3607-SC-07C	986238	15.28	15.53	0.25	15.49	0.21	0.82	0.44	0.09	0.11	0.09	0.44	1 - 5	0.4 - 1.8
3607-SC-07D	986239	17.12	17.25	0.13	17.22	0.10	0.74	0.40	0.04	0.05	0.04	0.40	< 1	< 0.3

Calculations:

GRR from ashing = Ashed residue / Original Sample Mass

GRR from Acid grinding = Filtered Residue / Ashed residue

Overall Grav. Reduction Ratio (GRR) = GRR from Ashing X GRR from Acid grinding

Final Calculated Percent Range in Original Layer = TEM Visual Estimate (Range%) X Overall Grav. Reduction Ratio (GRR)

GRAVIMETRIC REDUCTION DATA SHEET

Reservoirs
118329/118327

Lab Name:
Lab Job No.:

EPA Sample Index Number	Lab Sample Number	Sample Ashing				Acid Grinding followed by Filtration				Overall Grav. Reduction Ratio (GRR)	TEM Visual Estimate (Range %)	Final Calculated Percent Range in Original Sample		
		Weight (g. to the nearest 0.01g)				Weight (g. to the nearest 0.01g)								
		Crucible	Crucible + Sample	Original Sample Mass	Crucible + Ashed Sample	Ashed residue	GRR from Ashing	Filter + Dish + Residue	Filtered Residue				GRR from Acid grinding	
3607-WG-05A	986228	16.33	16.71	0.38	16.68	0.35	0.14	0.02	0.03	0.01	0.21	0.03	< 1	TR < 0.03
3607-WG-05B	986229	16.32	16.41	0.09	18.38	0.07	23.19	0.02	0.03	0.02	0.01	0.21	< 1	TR < 0.21
3607-WG-05C	986230	18.31	18.66	0.35	18.63	0.32	0.91	0.02	0.06	0.04	0.12	0.11	70 - 80	7.9 - 9.0
3607-WG-05D	986231	16.39	16.78	0.38	16.74	0.35	0.91	0.02	0.03	0.01	0.04	0.03	< 1	TR < 0.03
3602-WG-05A	986260	17.47	17.97	0.50	17.91	0.43	0.86	0.02	0.09	0.07	0.16	0.14	< 1	TR < 0.14
3602-WG-05B	986261	16.15	16.85	0.70	16.78	0.63	0.90	0.02	0.05	0.04	0.06	0.05	< 1	TR < 0.05
3602-WG-05C	986262	16.77	17.60	0.83	17.53	0.76	0.92	0.02	0.05	0.03	0.04	0.04	< 1	TR < 0.04
3602-WG-05D	986263	17.30	18.14	0.84	18.09	0.79	0.94	0.02	0.03	0.02	0.02	0.02	< 1	TR < 0.02

Calculations:

GRR from ashing = Ashed residue / Original Sample Mass
 GRR from Acid grinding = Filtered Residue / Ashed residue
 Overall Grav. Reduction Ratio (GRR) = GRR from Ashing X GRR from Acid grinding
 Final Calculated Percent Range in Original Layer = TEM Visual Estimate (Range%) X Overall Grav. Reduction Ratio (GRR)

APPENDIX A

QC Results Summary

RES 118329, 118327

Quality Control Analyses were conducted in general accordance with Reservoirs Environmental, Inc's established program. Quality control samples are listed below. Sample Quality Control Data was acceptable within the laboratory's statistical acceptance / rejection criteria.

QC Results Tally

Client Sample ID	REI EM Number	Layer	Original Count	QC Count
3607-RF-01D	986215	A	ND	ND
3607-FT-03C	986222	A	15	15
3607-WG-05C	986230	A	TR	TR
3607-SC-07B	986237	A	ND	ND
3602-RF-01C	986246	A	ND	ND
3602-FT-03B	986253	A	TR	TR
		B	15	15
3602-WG-05B	986261	A	ND	ND
3602-SC-07A	986268	A	TR	TR
		B	ND	ND

RESERVOIRS ENVIRONMENTAL SERVICES, INC.
PLM ASBESTOS ANALYSIS - LAB BLANK/RECOUNT

LAB SAMPLE #: 986015

RES #: 118329

PREPARED BY: [Signature]

DATE PREPARED: 7/26/05

SUB-PART:	<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>
PERCENT:	<u>100</u>	<u> </u>	<u> </u>	<u> </u>

ASBESTOS FIBERS

CHRYSOPILE	<u> </u>	<u> </u>	<u> </u>	<u> </u>
AMOSITE	<u> </u>	<u> </u>	<u> </u>	<u> </u>
CROCIDOLITE	<u> </u>	<u> </u>	<u> </u>	<u> </u>
TREMOLITE-ACTINOLITE	<u> </u>	<u> </u>	<u> </u>	<u> </u>
ANTHOPHYLLITE	<u> </u>	<u> </u>	<u> </u>	<u> </u>
TOTAL ASBESTOS:	<u>0</u>	<u> </u>	<u> </u>	<u> </u>

PART:	PHYSICAL DESCRIPTION:
<u>A</u>	<u>Black felt</u>
<u>B</u>	<u> </u>
<u>C</u>	<u> </u>
<u>D</u>	<u> </u>

ORIGINAL ANALYZED BY: [Signature]

DATE ANALYZED: 7/26/05

QC ANALYZED BY: [Signature]

DATE ANALYZED: 7/26/05

ORIGINAL RESULTS		
PART #	TYPE(S) ASBESTOS	% ASBESTOS
<u>A</u>	<u>100</u>	<u>0</u>
<u>B</u>	<u> </u>	<u> </u>
<u>C</u>	<u> </u>	<u> </u>
<u>D</u>	<u> </u>	<u> </u>
<u>E</u>	<u> </u>	<u> </u>
<u>F</u>	<u> </u>	<u> </u>
<u>G</u>	<u> </u>	<u> </u>

RESERVOIRS ENVIRONMENTAL SERVICES, INC.
PLM ASBESTOS ANALYSIS - LAB BLANK/RECOUNT

LAB SAMPLE #: 986222

RES #: 118329

PREPARED BY: [Signature]

DATE PREPARED: 7/26/05

SUB-PART: A B C D
 PERCENT: 100 _____ _____ _____

ASBESTOS FIBERS

CHRYEOTILE	<u>100</u>	_____	_____	_____
AMOSITE	_____	_____	_____	_____
CROCIDOLITE	_____	_____	_____	_____
TREMOLITE-ACTINOLITE	_____	_____	_____	_____
ASTHOBYLLITE	_____	_____	_____	_____
TOTAL ASBESTOS:	<u>15</u>	_____	_____	_____

PART:	PHYSICAL DESCRIPTION:
<u>A</u>	<u>Brown tile w/ black matrix</u>
<u>B</u>	_____
<u>C</u>	_____
<u>D</u>	_____

ORIGINAL ANALYZED BY: [Signature]

DATE ANALYZED: 7/26/05

QC ANALYZED BY: [Signature]

DATE ANALYZED: 7/26/05

ORIGINAL RESULTS			
PART #	TYPE(S) ASBESTOS	% ASBESTOS	ASBESTOS
<u>A</u>	<u>Chrys</u>	<u>100</u>	<u>15</u>
<u>B</u>	_____	_____	_____
<u>C</u>	_____	_____	_____
<u>D</u>	_____	_____	_____
<u>E</u>	_____	_____	_____
<u>F</u>	_____	_____	_____
<u>G</u>	_____	_____	_____

RESERVOIRS ENVIRONMENTAL SERVICES, INC.
PLM ASBESTOS ANALYSIS - LAB BLANK/RECOUNT

LAB SAMPLE #: 986230

RES #: 118509

PREPARED BY: [Signature] 7/26/05

DATE PREPARED: 7/26/05

ASBESTOS FIBERS	SUB-PART:	A	B	C	D
	PERCENT:	<u>100</u>			
CHRYSTOLE		<u>tr</u>			
AMOSITE					
CROCIDOLITE					
TREMOLITE-ACTINOLITE					
ANTHOPHYLLITE					
TOTAL ASBESTOS:		<u>tr</u>			

PART:	PHYSICAL DESCRIPTION:
A	<u>white glare w/ tan part</u>
B	
C	
D	

ORIGINAL ANALYZED BY: [Signature]

DATE ANALYZED: 7/26/05

QC ANALYZED BY: RDW

DATE ANALYZED: 7/26/05

ORIGINAL RESULTS		
PART & %	TYPE(S) ASBESTOS	% ASBESTOS
A 100	<u>Ch</u>	<u>tr</u>
B		
C		
D		
E		
F		
G		

RESERVOIRS ENVIRONMENTAL SERVICES, INC.
PLM ASBESTOS ANALYSIS - LAB BLANK/RECOUNT

LAB SAMPLE #: 986237

RES #: 118329

PREPARED BY: *Lu*

DATE PREPARED: 7/26/05

SUB-PART:	<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>
PERCENT:	<u>100</u>	<u> </u>	<u> </u>	<u> </u>

ASBESTOS FIBERS

CHRYSOTILE	<u> </u>	<u> </u>	<u> </u>	<u> </u>
AMOSITE	<u> </u>	<u> </u>	<u> </u>	<u> </u>
CROCIDOLITE	<u> </u>	<u> </u>	<u> </u>	<u> </u>
TREMOLITE-ACTINOLITE	<u> </u>	<u> </u>	<u> </u>	<u> </u>
ANTHOPHYLITE	<u> </u>	<u> </u>	<u> </u>	<u> </u>
TOTAL ASBESTOS:	<u>100</u>	<u> </u>	<u> </u>	<u> </u>

PART:	PHYSICAL DESCRIPTION:
<u>A</u>	<u>tan/white angular w/ white/green print</u>
<u>B</u>	<u> </u>
<u>C</u>	<u> </u>
<u>D</u>	<u> </u>

ORIGINAL ANALYZED BY: *Lu*

DATE ANALYZED: 7/26/05

QC ANALYZED BY: *Lu*

DATE ANALYZED: 7/26/05

ORIGINAL RESULTS		
PART & %	TYPE(S) ASBESTOS	% ASBESTOS
<u>A 100</u>	<u> </u>	<u>100</u>
<u>B</u>	<u> </u>	<u> </u>
<u>C</u>	<u> </u>	<u> </u>
<u>D</u>	<u> </u>	<u> </u>
<u>E</u>	<u> </u>	<u> </u>
<u>F</u>	<u> </u>	<u> </u>
<u>G</u>	<u> </u>	<u> </u>



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Reservoirs Environmental, Inc.

2059 Bryant St. Denver, CO 80211
(303) 964-1986 Fax (303) 477-4275 Toll Free (866) RESI-ENV

Environmental Quality Management

Final Report

RES 120037

September 29, 2005

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Reservoirs Environmental, Inc.

2059 Bryant St. Denver, CO 80211
(303) 964-1986 Fax (303) 477-4275 Toll Free (866) RESI-ENV

September 29, 2005

Laboratory Code: RES
Subcontract Number: NA
Laboratory Report: RES 120037
Project Description: 05-0111-151
Former Hospital Complex

John Kominsky
Environmental Quality Management
1800 Carillon Blvd.
Cincinnati OH 45240

Dear Mr. Kominsky,

Reservoirs Environmental, Inc is an analytical laboratory accredited for the analysis of Industrial Hygiene and Environmental matrices by the National Voluntary Laboratory Accreditation Program (NVLAP), Lab Code # 101896 and the American Industrial Hygiene Association (AIHA), Lab ID 101533 - Accreditation Certificate #480. This laboratory is currently proficient in both Proficiency Testing and PAT programs respectively.

Reservoirs Environmental, Inc. has analyzed the following samples for asbestos content as per your request. The analysis has been completed in general accordance with the appropriate methodology as stated in the attached analysis table. The results have been submitted to your office

RES 120037 is the job number assigned to this study. This report is considered highly confidential and the sole property of the customer. Reservoirs Environmental, Inc. will not discuss any part of this study with personnel other than those of the client. The results described in this report only apply to the samples analyzed. This report must not be used to claim endorsement of products or analytical results by NVLAP or any agency of the U.S Government. This report shall not be reproduced except in full, without written approval from Reservoirs Environmental, Inc. Samples will be disposed of after sixty days unless longer storage is requested. If you have any questions about this report, please feel free to call 303-964-1986.

Sincerely,



Jeanne Spencer Orr



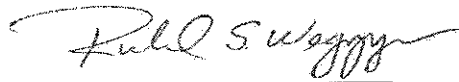
Reservoirs Environmental, Inc.

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Analyst Signature Page

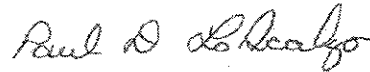
RES 120037

PLM Analyst:



Michael Scales

TEM Analyst:



Paul D. LoScalzo



Reservoirs Environmental, Inc.

2059 Bryant St. Denver, CO 80211
(303) 964-1986 Fax (303) 477-4275 Toll Free (866) RESI-ENV

Case Narrative

RES 120037

Samples were relinquished to the laboratory in properly sealed containers. The customer Chain of Custody containing all client information was signed upon receipt, then transferred to Reservoirs Environmental, Inc Chain of Custody. The sample set and samples were assigned unique batch RES job number and EM sample number, respectively. Client data information was entered into the Laboratory's Information Management System

PLM Analysis was conducted in accordance with "Method for the Determination of Asbestos in Bulk Building Materials" EPA 600/R-93/116. Samples received for PLM analysis were examined by stereo microscopy at 6 to 60X magnification. The analyst determined the general description of the sample, the number and percent of separable layers using a stereo microscope. The analyst then prepared multiple slides of each individual layer in the appropriate refractive index oil for examination in the polarized light microscope. The optical properties of the minerals present were used to identify the type of asbestos present in the sample. A combination of the amount of asbestos observed in the stereo microscope and the amount of asbestos observed in the slide preparations was compared to known standards and reference charts. The analyst then defined a range of asbestos observed in that layer. For example, if the analyst recorded an asbestos range of 1-5% and a final estimate of 4%, the layer definitely contained above 1% and the best estimate was 4%. The method provides a calibrated visual estimate, not an exact result.

The PLM method was designed to determine if asbestos is in a building material above the 1% level. Building materials, especially compounds applied wet such as joint compound and ceiling spray-on can vary tremendously from sample to sample. It is not unusual for two samples of the same material to vary in visual estimate by 50% or more when the actual asbestos content is below 10%. For this reason, multiple samples are required from the sampling team and the analysts record a concentration range for each sample. Individual asbestos fibrils are not visible by PLM and may not be detected by the method.

Each sample was analyzed by layer and each layer was reported separately. Window glaze samples with paint were reported as one layer if the two materials could not be properly separated. The range of asbestos present as estimated by the analyst was recorded and results are presented in Table 1.

Gravimetric TEM analysis was performed on each sample and analyzed in accordance with EPA 600/R-93/116. A portion of the window glaze with paint was weighed, then ashed overnight at 480°C to remove any organic matrix. The sample was weighed again and the ashed residue was acidified to remove any remaining carbonate minerals. The residue was then filtered and weighed. The gravimetric reduction ratio was calculated using the starting weight and final weight of the sample. The residue was examined by TEM and a visual estimate of the asbestos present in the residue was recorded. The gravimetric reduction ratio data and the asbestos concentration is included in Table 3.

All fiber sizes are visible by TEM allowing the detection of individual fibrils that are not visible by PLM. The visual estimate by TEM was based on standards, reference charts and analyst experience. The asbestos concentration range was calculated from the gravimetric reduction data and is included in Table 1

Reference:

Method for the Determination of Asbestos in Bulk Building Materials, EPA/600/R-93-116

RESERVOIRS ENVIRONMENTAL, INC.

NVLAP Accredited Laboratory # 101886
TDH Licensed Laboratory # 30-0136

TABLE PLM BULK ANALYSIS, PERCENTAGE COMPOSITION BY VOLUME

RES Job Number: **RES 120037**
 Client: **Environmental Quality Management**
 Client Project Number / P.O.: **05-0111-151**
 Client Project Description: **Former Hospital Complex**
 Date Samples Received: **September 19, 2005**
 Analysis Type: **PLM, Short Report**
 Turnaround: **2 Hour**
 Date Analyzed: **September 17, 2005**

Analyst: RSW

Client Sample Number	Lab ID Number	L A Y E R	Physical Description	Sub Part (%)	Asbestos Content			TEM Asbestos Content			Non-Asbestos Fibers Components (%)	Non-Fibrous Components (%)
					Mineral	Visual Range (%)	Visual Estimate (%)	Overall Gravimetric Reduction Ratio	Calculated Range (%)			
3607-W-1	EM 1001704	A	White window glazing w/ tan paint	100	Trem-Act	ND	0.07	TR < 0.1	0	100		
3607-W-2	EM 1001705	A	Cream window glazing w/ tan paint	100	Trem-Act	ND	0.09	TR < 0.1	0	100		
3607-W-3	EM 1001706	A	Cream window glazing w/ tan paint	100		ND	0.17	ND	TR	100		
3607-W-4	EM 1001707	A	White window glazing w/ tan paint	100		ND	0.19	ND	TR	100		
3607-W-5	EM 1001708	A	White window glazing w/ cream paint	35		ND	0.12	ND	0	100		
		B	White window glazing w/ tan paint	65		ND			0	100		
3607-W-6	EM 1001709	A	White window glazing w/ tan paint	100		ND	0.15	ND	TR	100		
3607-W-7	EM 1001710	A	White window glazing w/ tan paint	50		ND	0.03	ND	0	100		
		B	White window glazing w/ tan paint	50		ND			0	100		
3607-W-8	EM 1001711	A	White window glazing w/ tan paint	15		ND	0.06	ND	0	100		
		B	White window glazing w/ cream paint	85		ND			0	100		
3607-W-9	EM 1001712	A	Tan window glazing	2		ND	0.05	ND	0	100		
		B	White window glazing w/ tan paint	98		ND			TR	100		
3607-W-10	EM 1001713	A	Tan window glazing w/ cream paint	20		ND	0.05	ND	TR	100		
		B	White window glazing w/ tan paint	80		ND			TR	100		
3607-W-11	EM 1001714	A	Cream window glazing w/ tan paint	100	Chrysotile	ND	0.07	TR < 0.1	0	100		
3607-W-12	EM 1001715	A	White window glazing w/ tan paint	100		ND	0.01	ND	0	100		
3607-W-13	EM 1001716	A	Cream window glazing w/ tan paint	100		ND	0.07	ND	0	100		
3607-W-14	EM 1001717	A	Cream window glazing w/ tan paint	100		ND	0.07	ND	0	100		
3607-W-15	EM 1001718	A	White window glazing w/ tan paint	100		ND	0.02	ND	0	100		

Details Reported
by Sherry
Crawford
2/20/06 10:28:28
1625:27 -0007

RESERVOIRS ENVIRONMENTAL, INC.

NVLAP Accredited Laboratory # 101886
 TDH Licensed Laboratory # 30-0136

TABLE PLM BULK ANALYSIS, PERCENTAGE COMPOSITION BY VOLUME

RES Job Number: RES 120037
 Client: Environmental Quality Management
 Client Project Number / P.O.: 05-0111-151
 Client Project Description: Former Hospital Complex
 Date Samples Received: September 19, 2005
 Analysis Type: PLM, Short Report
 Turnaround: 2 Hour
 Date Analyzed: September 17, 2005

Analyst: RSW

Client Sample Number	Lab ID Number	L A Y E R	Physical Description	Sub Part (%)	Asbestos Content			TEM Asbestos Content		Non-Asbestos Fibers Components (%)	Non-Fibrous Components (%)
					Mineral	Visual Range (%)	Visual Estimate (%)	Overall Gravimetric Reduction Ratio	Calculated Range (%)		
3607-W-16	EM 1001719	A	White window glazing w/ tan paint	100		ND	0.02	ND	0	100	
3607-W-17	EM 1001720	A	Cream window glazing w/ tan paint	100		ND	0.08	ND	0	100	
3607-W-18	EM 1001721	A	White window glazing w/ tan paint	100		ND	0.03	ND	0	100	
3607-W-19	EM 1001722	A	Cream window glazing w/ cream paint	50		ND	0.06	ND	0	100	
		B	White window glazing w/ tan paint	50		ND			0	100	
3607-W-20	EM 1001723	A	White window glazing w/ tan paint	100		ND	0.16	ND	TR	100	
3607-W-21	EM 1001724	A	White window glazing w/ tan paint	10		ND	0.06	ND	0	100	
		B	Cream window glazing w/ cream paint	90		ND			0	100	
3607-W-22	EM 1001725	A	Cream window glazing w/ tan paint	100		ND	0.03	ND	0	100	
3607-W-23	EM 1001726		Not Analyzed - Bag Empty								
3607-W-24	EM 1001727	A	Cream window glazing w/ cream paint	100		ND	0.03	ND	0	100	
3607-W-25	EM 1001728	A	Cream window glazing w/ tan paint	100		ND	0.03	ND	0	100	
3607-W-26	EM 1001729	A	Cream window glazing w/ cream paint	100		ND	0.02	ND	0	100	
3607-W-27	EM 1001730	A	White window glazing w/ tan paint	100		ND	0.02	ND	0	100	
3607-W-28	EM 1001731	A	Cream window glazing w/ tan paint	100		ND	0.06	ND	0	100	
3607-W-29	EM 1001732	A	Cream window glazing w/ tan paint	100		ND	0.10	ND	0	100	
3607-W-30	EM 1001733	A	Cream glaze w/ tan paint	100		ND	0.07	ND	0	100	
3607-W-31	EM 1001734	A	Cream window glazing w/ tan paint	100		ND	0.08	ND	0	100	
3607-W-32	EM 1001735	A	Cream window glazing w/ tan paint	100		ND	0.12	ND	0	100	

Digitally signed by Eric Granstein
 Date: 2005.09.20 10:55:44 -0500

RESERVOIRS ENVIRONMENTAL, INC.

NVLAP Accredited Laboratory # 101896
 TDH Licensed Laboratory # 30-0136

TABLE PLM BULK ANALYSIS, PERCENTAGE COMPOSITION BY VOLUME

RES Job Number: RES 120037
 Client: Environmental Quality Management
 Client Project Number / P.O.: 05-0111-151
 Client Project Description: Former Hospital Complex
 Date Samples Received: September 19, 2005
 Analysis Type: PLM, Short Report
 Turnaround: 2 Hour
 Date Analyzed: September 17, 2005

Analyst: RSW

Client Sample Number	Lab ID Number	L A Y E R	Physical Description	Sub Part (%)	Asbestos Content			TEM Asbestos Content			Non-Asbestos Fibers Components (%)	Non-Fibrous Components (%)	
					Mineral	Visual Range (%)	Visual Estimate (%)	Overall Gravimetric Reduction Ratio	Calculated Range (%)				
3607-W-33	EM 1001736	A	White window glazing w/ tan paint	10									
			Cream window glazing w/ cream paint	90									
3607-W-34	EM 1001737	A	Cream window glazing w/ tan paint	100									

Printed: 9/20/05
 By: RSW
 Generated: 9/20/05 10:28 AM
 1005252-10007

GRAVIMETRIC REDUCTION DATA SHEET

Table III

Reservoirs
120037

Lab Name:
Lab Job No.:

EPA Sample Index Number	Lab Sample Number	Sample Ashing						Acid Grinding followed by Filtration				Overall Grav. Reduction Ratio (GRR)	TEM Visual Estimate (Range %)	Final Calculated Percent Range in Original Sample
		Weight (g, to the nearest 0.01g)		Crucible + Ashed residue	GRR from Ashing	Weight (g, to the nearest 0.01g)		Filtered Residue	GRR from Acid grinding					
		Crucible + Sample	Original Sample Mass			Crucible + Ashed Sample	Filter + Dish + Residue							
W1	1001704	9.31	9.56	0.25	9.48	0.17	0.89	6.38	6.40	0.02	0.10	0.07	< 1	0.0 - 0.1
W2	1001705	8.09	8.34	0.26	8.30	0.22	0.85	6.37	6.40	0.02	0.11	0.09	< 1	0.0 - 0.1
W3	1001706	8.49	8.74	0.25	8.69	0.20	0.79	6.38	6.42	0.04	0.22	0.17	0 - 0	0.0 - 0.0
W4	1001707	7.44	7.69	0.26	7.66	0.22	0.86	6.37	6.42	0.05	0.22	0.19	0 - 0	0.0 - 0.0
W5	1001708	8.12	8.37	0.26	8.31	0.20	0.77	6.37	6.40	0.03	0.15	0.12	0 - 0	0.0 - 0.0
W6	1001709	8.32	8.58	0.26	8.54	0.22	0.85	6.38	6.42	0.04	0.18	0.15	0 - 0	0.0 - 0.0
W7	1001710	8.30	8.56	0.26	8.53	0.23	0.88	6.37	6.38	0.01	-0.03	0.03	0 - 0	0.0 - 0.0
W8	1001711	8.11	8.36	0.25	8.32	0.21	0.84	6.37	6.39	0.01	0.07	0.06	0 - 0	0.0 - 0.0
W9	1001712	8.79	9.04	0.25	8.96	0.17	0.69	6.38	6.39	0.01	0.07	0.05	0 - 0	0.0 - 0.0
W10	1001713	7.57	7.82	0.25	7.77	0.20	0.80	6.38	6.39	0.01	0.07	0.05	0 - 0	0.0 - 0.0
W11	1001714	8.18	8.43	0.26	8.41	0.23	0.89	6.37	6.39	0.02	0.07	0.065	< 1	0.0 - 0.1
W12	1001715	9.50	9.75	0.25	9.70	0.19	0.78	6.37	6.38	0.00	0.02	0.01	0 - 0	0.0 - 0.0
W13	1001716	8.68	8.93	0.26	8.90	0.23	0.89	6.38	6.40	0.02	0.07	0.07	0 - 0	0.0 - 0.0

GRAVIMETRIC REDUCTION DATA SHEET

Reservoirs
120037

Lab Name:
Lab Job No.:

EPA Sample Index Number	Lab Sample Number	Sample Ashing						Acid Grinding followed by Filtration				Overall Grav. Reduction Ratio (GRR)	TEM Visual Estimate (Range %)	Final Calculated Percent Range in Original Sample
		Weight (g, to the nearest 0.01g)			GRR from Ashing			Weight (g, to the nearest 0.01g)		GRR from Acid grinding				
		Crucible	Crucible + Sample	Crucible + Ashed Sample	Original Sample Mass	Crucible + Ashed Sample	Ashed residue	GRR from Ashing	Filter + Dish	Filter + Dish + Residue	Filtered Residue			
W14	1001717	8.34	8.59	0.25	8.56	0.22	0.89	6.38	6.40	0.02	0.08	0.07	0.0 - 0.0	0.0 - 0.0
W15	1001718	9.72	9.97	0.25	9.92	0.20	0.90	6.38	6.39	0.00	0.02	0.02	0.0 - 0.0	0.0 - 0.0
W16	1001719	8.42	8.68	0.26	8.62	0.20	0.77	6.38	6.38	0.00	0.02	0.02	0.0 - 0.0	0.0 - 0.0
W17	1001720	8.35	8.60	0.25	8.57	0.22	0.87	6.38	6.40	0.02	0.10	0.08	0.0 - 0.0	0.0 - 0.0
W18	1001721	8.65	8.90	0.26	8.84	0.20	0.76	6.37	6.38	0.01	0.04	0.03	0.0 - 0.0	0.0 - 0.0
W19	1001722	8.71	8.97	0.25	8.92	0.20	0.81	6.37	6.39	0.02	0.08	0.06	0.0 - 0.0	0.0 - 0.0
W20	1001723	8.95	9.21	0.26	9.17	0.22	0.85	6.37	6.41	0.04	0.19	0.16	0.0 - 0.0	0.0 - 0.0
W21	1001724	9.38	9.63	0.25	9.60	0.22	0.87	6.38	6.39	0.01	0.06	0.06	0.0 - 0.0	0.0 - 0.0
W22	1001725	8.35	8.61	0.26	8.58	0.23	0.89	6.38	6.39	0.01	0.03	0.03	0.0 - 0.0	0.0 - 0.0
W23	1001726	Not Analyzed Sample Missing												
W24	1001727	8.01	8.26	0.25	8.24	0.23	0.90	6.37	6.38	0.01	0.04	0.03	0.0 - 0.0	0.0 - 0.0
W25	1001728	8.06	8.32	0.25	8.29	0.23	0.92	6.37	6.38	0.01	0.03	0.03	0.0 - 0.0	0.0 - 0.0
W26	1001729	8.87	9.12	0.25	9.10	0.23	0.93	6.38	6.38	0.00	0.02	0.02	0.0 - 0.0	0.0 - 0.0

GRAVIMETRIC REDUCTION DATA SHEET

Reservoirs
120037

Lab Name:

Lab Job No.:

EPA Sample Index Number	Lab Sample Number	Sample Ashing						Acid Grinding followed by Filtration				Overall Grav. Reduction Ratio (GRR)	TEM Visual Estimate (Range %)	Final Calculated Percent Range in Original Sample
		Weight (g. to the nearest 0.01g)			GRR from Ashing	Weight (g. to the nearest 0.01g)			Filtered Residue	GRR from Acid grinding				
		Crucible	Crucible + Sample	Original Sample Mass		Crucible + Ashed Sample	Ashed residue	Filter + Dish + Residue			Filter + Dish + Residue			
W27	1001730	8.10	8.35	0.25	8.29	0.20	0.77	6.38	6.38	0.00	0.02	0.02	0.0 - 0.0	0.0 - 0.0
W28	1001731	10.97	11.22	0.25	11.19	0.22	0.89	6.38	6.40	0.02	0.07	0.06	0.0 - 0.0	0.0 - 0.0
W29	1001732	10.60	10.85	0.25	10.81	0.21	0.85	6.38	6.40	0.02	0.11	0.10	0.0 - 0.0	0.0 - 0.0
W30	1001733	10.74	10.99	0.26	10.96	0.23	0.89	6.38	6.40	0.02	0.08	0.07	0.0 - 0.0	0.0 - 0.0
W31	1001734	11.01	11.27	0.26	11.24	0.23	0.89	6.37	6.39	0.02	0.08	0.08	0.0 - 0.0	0.0 - 0.0
W32	1001735	11.39	11.65	0.25	11.61	0.22	0.86	6.37	6.40	0.03	0.14	0.12	0.0 - 0.0	0.0 - 0.0
W33	1001736	10.83	11.18	0.25	11.15	0.22	0.89	6.38	6.39	0.01	0.06	0.05	0.0 - 0.0	0.0 - 0.0
W34	1001737	20.11	20.36	0.25	20.34	0.23	0.90	6.37	6.38	0.01	0.05	0.05	0.0 - 0.0	0.0 - 0.0

APPENDIX A

QC Results Summary

RES 120037

Quality Control Analyses were conducted in general accordance with Reservoirs Environmental, Inc's established program. Quality control samples are listed below. Sample Quality Control Data was acceptable within the laboratory's statistical acceptance / rejection criteria.

QC Results Tally

Client Sample ID	REI EM Number	Layer	Original Count	QC Count
3607-W8	1001708	A	ND	ND
		B	ND	ND
3607-W12	1001715	A	ND	ND
3607-W21	1001724	A	ND	ND
		B	ND	ND
3607-W27	1001730	A	ND	ND

RESERVOIRS ENVIRONMENTAL SERVICES, INC.
PLM ASBESTOS ANALYSIS - LAB BLANK/RECOUNT

LAB SAMPLE #: 1001708 RES #: 120037
 PREPARED BY: _____ DATE PREPARED: _____

SUB-PART: A B C D
 PERCENT: 35 65 _____ _____

ASBESTOS FIBERS

CHRYSOTILE	_____	_____	_____	_____
AMOSITE	_____	_____	_____	_____
CROCIDOLITE	_____	_____	_____	_____
TREMOLITE-ACTINOLITE	_____	_____	_____	_____
ANTHOPHILITE	_____	_____	_____	_____
TOTAL ASBESTOS:	<u>0</u>	<u>0</u>	_____	_____

PART:	PHYSICAL DESCRIPTION:
<u>A</u>	<u>WHITE WINDOW GLAZING w/ CREAM PAINT</u>
<u>B</u>	<u>WHITE WINDOW GLAZING w/ TAN PAINT</u>
<u>C</u>	_____
<u>D</u>	_____

ORIGINAL ANALYZED BY: RSW DATE ANALYZED: 9/17/05
 QC ANALYZED BY: _____ DATE ANALYZED: 9/17/05

PART & %	TYPE(S) ASBESTOS	% ASBESTOS
<u>A 35</u>	_____	_____
<u>B 65</u>	_____	_____
<u>C</u>	_____	_____
<u>D</u>	_____	_____
<u>E</u>	_____	_____
<u>F</u>	_____	_____
<u>G</u>	_____	_____

**RESERVOIRS ENVIRONMENTAL SERVICES, INC.
PLM ASBESTOS ANALYSIS - LAB BLANK/RECOUNT**

LAB SAMPLE #: 1001715

RES #: 120037

PREPARED BY: _____

DATE PREPARED: _____

ASBESTOS FIBERS	SUB-PART:	A	B	C	D
	PERCENT:	<u>100</u>	_____	_____	_____
CHRYSOTILE		_____	_____	_____	_____
AMOSITE		_____	_____	_____	_____
CROCIDOLITE		_____	_____	_____	_____
TREMOLITE-ACTINOLITE		_____	_____	_____	_____
ANTHOPHYLLITE		_____	_____	_____	_____
TOTAL ASBESTOS:		<u>0</u>	_____	_____	_____

PART:	PHYSICAL DESCRIPTION:
A	<u>WHITE WINDOW GLAZING W/TAN PAINT</u>
B	_____
C	_____
D	_____

ORIGINAL ANALYZED BY: RSW

DATE ANALYZED: 9/17/05

QC ANALYZED BY: RSW

DATE ANALYZED: 9/17/05

ORIGINAL RESULTS		
PART #	TYPE(S) ASBESTOS	% ASBESTOS
<u>A 100</u>	<u>—</u>	<u>—</u>
B	_____	_____
C	_____	_____
D	_____	_____
E	_____	_____
F	_____	_____
G	_____	_____

RESERVOIRS ENVIRONMENTAL SERVICES, INC.
PLM ASBESTOS ANALYSIS - LAB BLANK/RECOUNT

LAB SAMPLE #: 1001724

RES #: _____

PREPARED BY: _____

DATE PREPARED: _____

SUB-PART:	<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>
PERCENT:	<u>10</u>	<u>90</u>	_____	_____

ASBESTOS FIBERS

CHRYSOCTILE	_____	_____	_____	_____
AMOSITE	_____	_____	_____	_____
CROCIDOLITE	_____	_____	_____	_____
TREMOLITE-ACTINOSITE	_____	_____	_____	_____
ANTHOPHYLLITE	_____	_____	_____	_____
TOTAL ASBESTOS:	<u>0</u>	<u>0</u>	_____	_____

PART:	PHYSICAL DESCRIPTION:
<u>A</u>	<u>WHITE WINDOW GLAZING W/TALC PAINT</u>
<u>B</u>	<u>CREAM WINDOW GLAZING W/CREAM PAINT</u>
<u>C</u>	_____
<u>D</u>	_____

ORIGINAL ANALYZED BY: RSW

DATE ANALYZED: 9/17/05

QC ANALYZED BY: _____

DATE ANALYZED: 9/17/05

ORIGINAL RESULTS		
PART #	TYPE(S) ASBESTOS	% ASBESTOS
<u>A 10</u>	_____	_____
<u>B 90</u>	_____	_____
<u>C</u>	_____	_____
<u>D</u>	_____	_____
<u>E</u>	_____	_____
<u>F</u>	_____	_____
<u>G</u>	_____	_____

**RESERVOIRS ENVIRONMENTAL SERVICES, INC.
PLM ASBESTOS ANALYSIS - LAB BLANK/RECOUNT**

LAB SAMPLE #: 1001730

RES #: 120037

PREPARED BY: _____

DATE PREPARED: _____

ASBESTOS FIBERS	SUB-PART:	A	B	C	D
	PERCENT:	<u>100</u>	_____	_____	_____
CHRYSOTILE		_____	_____	_____	_____
AMOSITE		_____	_____	_____	_____
CROCIDOLITE		_____	_____	_____	_____
TREMOLITE-ACTINOLITE		_____	_____	_____	_____
ANTHOPHYLLITE		_____	_____	_____	_____
TOTAL ASBESTOS:		<u>0</u>	_____	_____	_____

PART:	PHYSICAL DESCRIPTION:
<u>A</u>	<u>WHITE WINDOW GLAZING W/ TAN PAINT</u>
<u>B</u>	_____
<u>C</u>	_____
<u>D</u>	_____

ORIGINAL ANALYZED BY: RSW

DATE ANALYZED: 9/17/05

QC ANALYZED BY: RSW

DATE ANALYZED: 9/17/05

ORIGINAL RESULTS		
PART #	TYPICAL ASBESTOS	% ASBESTOS
<u>A 100</u>	_____	_____
<u>B</u>	_____	_____
<u>C</u>	_____	_____
<u>D</u>	_____	_____
<u>E</u>	_____	_____
<u>F</u>	_____	_____
<u>G</u>	_____	_____

Reservoirs Environmental, Inc
National Voluntary Laboratory Accreditation Program, Lab Code #101896

Appendix B

Chain of Custody and Count Sheets

RESERVOIRS ENVIRONMENTAL, INC.

2059 Bryant St., Denver CO 80221

Order Date: 9/17/85

RES Form #

FES 120007

Order Time: 11:16 AM

Page 1 of 2

SAMPLES SUBMITTED BY:		INVOICE TO: (IF DIFFERENT)	
Company: <u>BEV/EGM</u>			
Address: <u>1922 Louisiana Boulevard</u>			
<u>Philadelphia, OH 45202</u>			
Contact: <u>Bob Smith</u>	Phone:	Fax:	Pager:
Company:	Phone:	Fax:	Pager:
Project Regular Sample # <u>22-511-151</u>		Final Client Deliverable Email Address:	
Project Description/Location: <u>Large Hospital Complex</u>			

After Hours/Weekend CHARGE: Amount \$ _____ Authorized by: _____

Additional fees apply for after hours and holidays for all analysis types. Samples will be analyzed during normal laboratory hours unless otherwise arranged and specified on the chain of custody. Turnaround is subject to laboratory volume. You will be notified if delays are expected.

ASBESTOS LABORATORY HOURS:
Weekdays: 7am - 7pm; Saturday: 6am - 5pm

PCMLM 2 Hour RUSH 24 hour 2-5 weekdays
TEM 4 Hour RUSH 24 hour 2-5 weekdays
(After hours are required by TEM 4 hour RUSH)

ANALYTICAL METHOD

AIR PCM PERM, FIBRE, GSHA
 MEM ANETA, IANETA, FIBZ, GSA
(Includes ISO method Papp, Moberg)
 AA/ICP Metal PCRA II
(Emit T-MS, TMS/MS)

BLK Full Element, Long report, Final Audit, Nozzle
 TEM w/ Chart, Semi-guard
 AA/ICP Metal PCRA II
(Pack, Std, Dist, Wipe, TCLP)
(NOTE: ICP approval required)

WATER TEM Semiquant, Waste WASTE
 AA Wipe Metal PCRA II
(Drinking, Waste Water)

OTHER Analyte _____

METALS LABORATORY HOURS:
Weekdays: 8am - 5pm

AA/ICP SPECIAL RUSH 24 hour 2-5 Day
PCRA II SPECIAL RUSH 5 Day 10 Day
TCLP SPECIAL RUSH 5 Day 10 Day
(After hours require 24hr SPECIAL RUSH AA, PCRA or TCLP)
PCRA and TCLP SPECIAL RUSH 2-5 Day Turnaround

Special Instructions: _____

Client Sample Number	Volume	EM #
1		1001754
2		5
3		2
4		1
5		6
6		7
7		15
8		11
9		12
10		13
11		14
12		15
13		16
14		17
15		18

NUMBER OF SAMPLES IN ORDER: 15 (1 for the empty laboratory bottle on the list)

NOTE: RES will only be receiving samples subject upon a deposit received and will not be responsible for errors in determinations or calculations resulting from the uncertainty of original data. By signing these shipping instructions, you acknowledge submission of the following samples for reported analysis as indicated on this invoice. The body of this contract is an integral part of our agreement with you. Please keep all RES files.

Notified by _____ Date/Time _____

Laboratory Use Only		Date/Time: <u>11/18/85 9:30 AM</u>	
Received By: <u>[Signature]</u>	Number of packages/reports sent upon receipt		
REMARKS:	Pages	Phone	Fax
		Email	Other
SPLITS:	Authorized By/Time	Lab Bench/Count Sheets Received By:	
by <u>10/2/85</u>	Analytical Method Turnaround	Time	Date
	Receipts Due		

RESERVOIRS ENVIRONMENTAL, INC.

RESI Job #: 120037

SAMPLES SUBMITTED BY:

Company: EEG/EGM
Contact: Bob Smith

Due Date: _____
Due Time: _____

Project Description and/or P.O. #: Former Hospital Complex

I # 05-211-151

SAMPLES:

No.	Client Sample Number	Volume	EM #
16	W 16		1001719
17	W 17		20
18	W 18		21
19	W 19		22
20	W 20		23
21	W 21		24
22	W 22		25
23	W 23		26
24	W 24		27
25	W 25		28
26	W 26		29
27	W 27		30
28	W 28		31
29	W 29		32
30	W 30		33
31	W 31		34
32	W 32		35
33	W 33		36
34	W 34		37
35			
36			
37			
38			
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63			
64			
65			



Asbestos Sampling Chain of Custody/ Field Data Sheet

05-0111-151

CLIENT

Environmental Quality Management, Inc.
1800 Carillon Boulevard
Cincinnati, Ohio 45240

PROPERTY

Windows - 3607 / Bird Proof - 3602 & 3607
Former Hospital Complex
Fort Chaffee, Arkansas

Inspector

Bob E. Smith
9-16-05
3607
Rusk

Date

9-16-05

Building ID

3607

Turnaround Time

Rusk

SAMPLE ID	FA	SAMPLE DESCRIPTION (FT1-12 x 12-White Floor Tiles)	SAMPLE LOCATION			CLASS			DAMAGE POTENTIAL (%)	FOOTING (L, M, H)	DIAG (NE)
			A	C	(S, T, M)	(E, NE)	(G, D, SD)				
W19		Window Gelcoing	✓			M	NFX	6	0	H	
W20			✓								
W21			✓								
W22			✓								
W23			✓								
W24			✓								
W25			✓								
W26			✓								
W27			✓								
W28			✓								
W29			✓								
W30			✓								
W31			✓								
W32			✓								
W33			✓								
W34			✓								

◆ A retype copy of the previous sample was found to be negative.

Relinquished by Bob E. Smith Date 9-16-05 Time 1700

Received by _____ Date _____ Time _____

Relinquished by _____ Date _____ Time _____

Received by _____ Date _____ Time _____

Comments: Analysis to be type + percentage of Asbestos; PLM + Gravimetric Reduction / TEM EPA method 600/R/116, 1997

* Friability of window Gelcoing is highly variable



Environmental
Enterprise Group, Inc.

Asbestos Sampling Chain of Custody/ Field Data Sheet

05-0111-151

CLIENT

Environmental Quality Management, Inc.
1800 Carillon Boulevard
Cincinnati, Ohio 45240

PROPERTY

Windows - 3607 / Bird Proof - 3602 & 3607
Former Hospital Complex
Fort Chaffee, Arkansas

Inspector

Bob E. Smith
9-16-05
3607
Rusk

Date

9-16-05

Building ID

3607

Turnaround Time

3607

SAMPLE ID	HA	SAMPLE DESCRIPTION (Fill in 1/2 White Floor Tile)	SAMPLE LOCATION	A	C	CLASS (S, I, M)	FRAGILITY (F, NF)	COND (G, D, SD)	DAMAGE TO/DAM (S)	DIAG (L, M, H)	QTY	KEY
W19		Windows Ceiling	Rm 7 North	✓		M	NFX	G			6	H
W20			Rm 7 North	✓								
W21			Rm 7 Bath	✓								
W22			Rm 8 North	✓								
W23			Rm 8 North	✓								
W24			Kitchen North	✓								
W25			Rm 9 North	✓								
W26			Rm 9 North	✓								
W27			Rm 9 North	✓								
W28			Rm 9 Bath	✓								
W29			Rm 10 North	✓								
W30			Rm 10 North	✓								
W31			Rm 10 Bath	✓								
W32			Rm 11 North	✓								
W33			Rm 11 North	✓								
W34			Rm 11 West	✓								

◆ Analyze only if the previous sample was found to be negative

A - Analyze C - Catalogue

Relinquished by Bob E. Smith Time 1700 Date 9-16-05

Received by _____ Time _____ Date _____

Comments: Analysis to be type + percentage of asbestos; PLM + Gravimetric Reduction; TEM; EPA method 600/R/116.1997

* - 1 unit of 100 (m. G-lar) - 2000 (m. G-lar)

RESERVOIRS ENVIRONMENTAL SERVICES, INC.
 PLM ASBESTOS ANALYSIS - SHORT REPORT

DUE DATE: 9/19/05
 DUE TIME: 9:00 AM

RES#: 120037
 EM#: 1001704

Storage Box#: 9/15/05
 Client Sample #: W1

Sub-Part Percent	A	B	C	D	E
ASBESTOS FIBERS	100				
CHRYSOTILE					
AMOSITE					
CROCIDOLITE					
TREMOLITE-ACTINOLITE					
ANTHOPHYLLITE					
TOTAL ASBESTOS	0				
NON-ASBESTOS FIBERS	-				
NON-FIBROUS CONSTITUENTS	100				

PART: *Physical Description:*

	Fibr	Mi	Pe	Gr	CaCO	CaSO	OT
A <u>WHITE WINDOW GLAZING W/TAN PAINT</u>					CaCO	CaSO	OT
B					CaCO	CaSO	OT
C					CaCO	CaSO	OT
D					CaCO	CaSO	OT
E					CaCO	CaSO	OT

Point Count

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 Point Count By:

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Point Count Total: _____

EM#: 1001705

Client Sample #: W2

Sub-Part Percent	A	B	C	D	E
ASBESTOS FIBERS	100				
CHRYSOTILE					
AMOSITE					
CROCIDOLITE					
TREMOLITE-ACTINOLITE					
ANTHOPHYLLITE					
TOTAL ASBESTOS	0				
NON-ASBESTOS FIBERS	-				
NON-FIBROUS CONSTITUENTS	100				

PART: *Physical Description:*

	Fibr	Mi	Pe	Gr	CaCO	CaSO	OT
A <u>CREAM WINDOW GLAZING W/TAN PAINT</u>					CaCO	CaSO	OT
B					CaCO	CaSO	OT
C					CaCO	CaSO	OT
D					CaCO	CaSO	OT
E					CaCO	CaSO	OT

Point Count

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 Point Count By:

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Point Count Total: _____

ANALYZED BY: RSW DATE ANALYZED: 9/17/05

BASIC SCOPE CAL: _____
 (record on first analysis form in series)

RESERVOIRS ENVIRONMENTAL SERVICES, INC.
 PLM ASBESTOS ANALYSIS - SHORT REPORT

DUE DATE: 9/19/05
 DUE TIME: 9:00 AM

RES#: 120037

Storage Box#: 9/15/05

EM#: 1001706

Client Sample #: W3

	Sub-Part Percent	A	B	C	D	E
ASBESTOS FIBERS						
CHRYSOTILE		100				
AMOSITE						
CROCIDOLITE						
TREMOLITE-ACTINOLITE						
ANTHOPHYLLITE						
TOTAL ASBESTOS:		0				
NON-ASBESTOS FIBERS		tr				
NON-FIBROUS CONSTITUENTS		100				

PART: *Physical Description:*

A	B	C	D	E
CREAM WINDOW GLAZING w/ TAN PAINT				

Fibr Mi Pe Gr CaCO CaSO OT

Point Count W Point Count By: _____

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Point Count Total: _____

EM#: 1001707

Client Sample #: W4

	Sub-Part Percent	A	B	C	D	E
ASBESTOS FIBERS						
CHRYSOTILE		100				
AMOSITE						
CROCIDOLITE						
TREMOLITE-ACTINOLITE						
ANTHOPHYLLITE						
TOTAL ASBESTOS:		0				
NON-ASBESTOS FIBERS		tr				
NON-FIBROUS CONSTITUENTS		100				

PART: *Physical Description:*

A	B	C	D	E
WHITE WINDOW GLAZE w/ TAN PAINT				

Fibr Mi Pe Gr CaCO CaSO OT

Point Count WT Point Count By: _____

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Point Count Total: _____

ANALYZED BY: RSW DATE ANALYZED: 9/17/05

BASIC SCOPE CAL _____
 (record on first analysis form in series)

RESERVOIRS ENVIRONMENTAL SERVICES, INC.
PLM ASBESTOS ANALYSIS - SHORT REPORT

DUE DATE: 9/19/05
DUE TIME: 9:00 PM

RES#: 120037
EM#: 1001708

Storage Box#: 9/15/05
Client Sample #: WE

Sub-Part Percent	RCD	A	B	C	D	E
ASBESTOS FIBERS						
CHRYSOTILE		35	65			
AMOSITE						
CROCIDOLITE						
TREMOLITE-ACTINOLITE						
ANTHOPHYLLITE						
TOTAL ASBESTOS		0	0			
NON-ASBESTOS FIBERS						
NON-FIBROUS CONSTITUENTS						
		100	100			

PART:	Physical Description:	Fibr	Mi	Pe	Gr	CaCO	CaSO	OT
A	WHITE WINDOW GLAZING W/ CREAM PAINT							
B	WHITE WINDOW GLAZING W/ TAN PAINT							
C								
D								
E								

Point Count

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 Point Count By: _____
Point Count Total: _____

EM#: 1001709 Client Sample #: W6

Sub-Part Percent	A	B	C	D	E
ASBESTOS FIBERS					
CHRYSOTILE					
AMOSITE					
CROCIDOLITE					
TREMOLITE-ACTINOLITE					
ANTHOPHYLLITE					
TOTAL ASBESTOS	0				
NON-ASBESTOS FIBERS					
NON-FIBROUS CONSTITUENTS					
	100				

PART:	Physical Description:	Fibr	Mi	Pe	Gr	CaCO	CaSO	OT
A	WHITE WINDOW GLAZING W/ TAN PAINT							
B								
C								
D								
E								

Point Count WT

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 Point Count By: _____
Point Count Total: _____

ANALYZED BY: RSW DATE ANALYZED: 9/17/05 BASIC SCOPE CAL: _____
(record on first analysis form in series)

RESERVOIRS ENVIRONMENTAL SERVICES, INC.
 PLM ASBESTOS ANALYSIS - SHORT REPORT

DUE DATE: 9/19/05
 DUE TIME: 9:00 AM

RES#: 120037
 EM#: 1001710

Storage Box#: 9/15/05
 Client Sample #: W7

Sub-Part Percent	A	B	C	D	E
ASBESTOS FIBERS	<u>50</u>	<u>50</u>			
CHRYSOTILE					
AMOSITE					
CROCIDOLITE					
TREMOLITE-ACTINOLITE					
ANTHOPHYLLITE					
TOTAL ASBESTOS	<u>0</u>	<u>0</u>			
NON-ASBESTOS FIBERS	<u>-</u>	<u>-</u>			
NON-FIBROUS CONSTITUENTS	<u>100</u>	<u>100</u>			

PART: *Physical Description:*

	Fibr	Mi	Pe	Gr	CaCO	CaSO	OT
A <u>WHITE WINDOW GLAZING W/TAN PAINT</u>					<u>CaCO</u>	<u>CaSO</u>	<u>OT</u>
B <u>WHITE WINDOW GLAZING W/TAN PAINT</u>					<u>CaCO</u>	<u>CaSO</u>	<u>OT</u>
C					CaCO	CaSO	OT
D					CaCO	CaSO	OT
E					CaCO	CaSO	OT

Point Count

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 Point Count By: _____

Point Count Total: _____

EM#: 1001711 Client Sample #: W8

Sub-Part Percent	A	B	C	D	E
ASBESTOS FIBERS	<u>15</u>	<u>85</u>			
CHRYSOTILE					
AMOSITE					
CROCIDOLITE					
TREMOLITE-ACTINOLITE					
ANTHOPHYLLITE					
TOTAL ASBESTOS	<u>0</u>	<u>0</u>			
NON-ASBESTOS FIBERS	<u>-</u>	<u>-</u>			
NON-FIBROUS CONSTITUENTS	<u>100</u>	<u>100</u>			

PART: *Physical Description:*

	Fibr	Mi	Pe	Gr	CaCO	CaSO	OT
A <u>WHITE WINDOW GLAZING W/TAN PAINT</u>					<u>CaCO</u>	<u>CaSO</u>	<u>OT</u>
B <u>WHITE WINDOW GLAZING W/ CREAM PAINT</u>					<u>CaCO</u>	<u>CaSO</u>	<u>OT</u>
C					CaCO	CaSO	OT
D					CaCO	CaSO	OT
E					CaCO	CaSO	OT

Point Count

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 Point Count By: _____

Point Count Total: _____

ANALYZED BY RSW DATE ANALYZED 9/17/05 BASIC SCOPE GAL: _____
 (record on first analysis form in series)

RESERVOIRS ENVIRONMENTAL SERVICES, INC.
 PLM ASBESTOS ANALYSIS - SHORT REPORT

DUE DATE: 9/19/05
 DUE TIME: 9:00 AM

RES#: 120037
 EM#: 1001712

Storage Box#: 9/15/05
 Client Sample #: W9

Sub-Part Percent	A	B	C	D	E
ASBESTOS FIBERS	<u>2</u>	<u>98</u>			
CHRYSOTILE					
AMOSITE					
CROCIDOLITE					
TREMOLITE-ACTINOLITE					
ANTHOPHYLLITE					
TOTAL ASBESTOS	<u>0</u>	<u>0</u>			
NON-ASBESTOS FIBERS	<u>-</u>	<u>tr</u>			
NON-FIBROUS CONSTITUENTS	<u>100</u>	<u>100</u>			

PART: *Physical Description:*

	Fibr	Mi	Pe	Gr	CaCO	CaSO	OT
A <u>TAN WINDOW GLAZING</u>					<u>CaCO</u>	<u>CaSO</u>	<u>OT</u>
B <u>WHITE WINDOW GLAZING W/TAN PAINT</u>					<u>CaCO</u>	<u>CaSO</u>	<u>OT</u>
C					CaCO	CaSO	OT
D					CaCO	CaSO	OT
E					CaCO	CaSO	OT

Point Count

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 Point Count By: _____

Point Count Total: _____

EM#: 1001713

Client Sample #: W10

Sub-Part Percent	A	B	C	D	E
ASBESTOS FIBERS	<u>20</u>	<u>80</u>			
CHRYSOTILE					
AMOSITE					
CROCIDOLITE					
TREMOLITE-ACTINOLITE					
ANTHOPHYLLITE					
TOTAL ASBESTOS	<u>0</u>	<u>0</u>			
NON-ASBESTOS FIBERS	<u>tr</u>	<u>tr</u>			
NON-FIBROUS CONSTITUENTS	<u>100</u>	<u>100</u>			

PART: *Physical Description:*

	Fibr	Mi	Pe	Gr	CaCO	CaSO	OT
A <u>TAN WINDOW GLAZING W/CREAM PAINT</u>					<u>CaCO</u>	<u>CaSO</u>	<u>OT</u>
B <u>WHITE WINDOW GLAZING W/TAN PAINT</u>					<u>CaCO</u>	<u>CaSO</u>	<u>OT</u>
C					CaCO	CaSO	OT
D					CaCO	CaSO	OT
E					CaCO	CaSO	OT

Point Count

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 Point Count By: _____

Point Count Total: _____

ANALYZED BY: RSW DATE ANALYZED: 9/17/05

BASIC SCOPE CAL: _____
 (record on first analysis form in series)

RESERVOIRS ENVIRONMENTAL SERVICES, INC.
 PLM ASBESTOS ANALYSIS - SHORT REPORT

DUE DATE: 9/19/05
 DUE TIME: 9:00 AM

RES#: 120037
 EM#: 1001714

Storage Box#: 9/15/05
 Client Sample #: W11

Sub-Part Percent	A	B	C	D	E
ASBESTOS FIBERS	100				
CHRYSOTILE					
AMOSITE					
CROCIDOLITE					
TREMOLITE-ACTINOLITE					
ANTHOPHYLLITE					
TOTAL ASBESTOS	0				
NON-ASBESTOS FIBERS	-				
NON-FIBROUS CONSTITUENTS	100				

PART: *Physical Description:*

A	B	C	D	E
CREAM EBONY WINDOW GLAZING W/TAN PAINT				

Fibr Mi Pe Gr CaCO CaSO OT

Point Count

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 Point Count By: _____

Point Count Total: _____

EM#: 1001715

Client Sample #: W12

Sub-Part Percent	A	B	C	D	E
ASBESTOS FIBERS	100				
CHRYSOTILE					
AMOSITE					
CROCIDOLITE					
TREMOLITE-ACTINOLITE					
ANTHOPHYLLITE					
TOTAL ASBESTOS	0				
NON-ASBESTOS FIBERS	-				
NON-FIBROUS CONSTITUENTS	100				

PART: *Physical Description:*

A	B	C	D	E
WHITE WINDOW GLAZING W/TAN PAINT				

Fibr Mi Pe Gr CaCO CaSO OT

Point Count

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 Point Count By: _____

Point Count Total: _____

ANALYZED BY RSW DATE ANALYZED: 9/17/05

BASIC SCOPE CAL _____
 (record on first analysis form in series)

RESERVOIRS ENVIRONMENTAL SERVICES, INC.
 PLM ASBESTOS ANALYSIS - SHORT REPORT

DUE DATE: 9/19/05
 DUE TIME: 9:00 AM

RES#: 120037
 EM#: 1001716

Storage Box#: 9/15/05
 Client Sample #: W13

Sub-Part Percent	A	B	C	D	E
ASBESTOS FIBERS	100				
CHRYSOTILE					
AMOSITE					
CROCIDOLITE					
TREMOLITE-ACTINOLITE					
ANTHOPHYLLITE					
TOTAL ASBESTOS:	0				
NON-ASBESTOS FIBERS	-				
NON-FIBROUS CONSTITUENTS	100				

PART: *Physical Description:*

A	B	C	D	E
CREAM WINDOW GLAZING w/TAN PAINT				

Fibr	Mi	Pe	Gr	CaCO	CaSO	OT

Point Count

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 Point Count By:

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Point Count Total: _____

EM#: 1001717 Client Sample #: W14

Sub-Part Percent	A	B	C	D	E
ASBESTOS FIBERS	100				
CHRYSOTILE					
AMOSITE					
CROCIDOLITE					
TREMOLITE-ACTINOLITE					
ANTHOPHYLLITE					
TOTAL ASBESTOS:	0				
NON-ASBESTOS FIBERS	-				
NON-FIBROUS CONSTITUENTS	100				

PART: *Physical Description:*

A	B	C	D	E
CREAM WINDOW GLAZING w/TAN PAINT				

Fibr	Mi	Pe	Gr	CaCO	CaSO	OT

Point Count

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 Point Count By:

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Point Count Total: _____

ANALYZED BY RSW DATE ANALYZED 9/17/05

BASIC SCOPE CAL: _____
 (record on first analysis form in series)

RESERVOIRS ENVIRONMENTAL SERVICES, INC.
 PLM ASBESTOS ANALYSIS - SHORT REPORT

DUE DATE: 9/19/05
 DUE TIME: 9:00 AM

RES#: 120037
 EM#: 1001718

Storage Box#: 9/15/05
 Client Sample #: W15

Sub-Part Percent	A	B	C	D	E
ASBESTOS FIBERS	100				
CHRYSOTILE					
AMOSITE					
CROCIDOLITE					
TREMOLITE-ACTINOLITE					
ANTHOPHYLLITE					
TOTAL ASBESTOS	0				
NON-ASBESTOS FIBERS	-				
NON-FIBROUS CONSTITUENTS	100				

PART: *Physical Description:*

A	B	C	D	E	Fibr	Mi	Pe	Gr	CaCO	CaSO	OT
WHITE WINDOW GLAZING W/TAN PAINT									CaCO	CaSO	OT
					Fibr	Mi	Pe	Gr	CaCO	CaSO	OT
					Fibr	Mi	Pe	Gr	CaCO	CaSO	OT
					Fibr	Mi	Pe	Gr	CaCO	CaSO	OT
					Fibr	Mi	Pe	Gr	CaCO	CaSO	OT

Point Count

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 Point Count By:

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Point Count Total: _____

EM#: 1001719 Client Sample #: W16

Sub-Part Percent	A	B	C	D	E
ASBESTOS FIBERS	100				
CHRYSOTILE					
AMOSITE					
CROCIDOLITE					
TREMOLITE-ACTINOLITE					
ANTHOPHYLLITE					
TOTAL ASBESTOS	0				
NON-ASBESTOS FIBERS	-				
NON-FIBROUS CONSTITUENTS	100				

PART: *Physical Description:*

A	B	C	D	E	Fibr	Mi	Pe	Gr	CaCO	CaSO	OT
WHITE WINDOW GLAZING W/TAN PAINT									CaCO	CaSO	OT
					Fibr	Mi	Pe	Gr	CaCO	CaSO	OT
					Fibr	Mi	Pe	Gr	CaCO	CaSO	OT
					Fibr	Mi	Pe	Gr	CaCO	CaSO	OT
					Fibr	Mi	Pe	Gr	CaCO	CaSO	OT

Point Count

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 Point Count By:

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Point Count Total: _____

ANALYZED BY: RSW DATE ANALYZED 9/17/05 BASIC SCOPE CAL: _____
 (record on first analysis form in series)

RESERVOIRS ENVIRONMENTAL SERVICES, INC.
 PLM ASBESTOS ANALYSIS - SHORT REPORT

DUE DATE: 9/19/05
 DUE TIME: 9:00 AM

RES#: 120037
 EM#: 1001720

Storage Box#: 9/15/05
 Client Sample #: W17

Sub-Part Percent	A	B	C	D	E
ASBESTOS FIBERS	100				
CHRYSOTILE					
AMOSITE					
CROCIDOLITE					
TREMOLITE-ACTINOLITE					
ANTHOPHYLLITE					
TOTAL ASBESTOS:	0				
NON-ASBESTOS FIBERS					
NON-FIBROUS CONSTITUENTS	100				

PART: *Physical Description:*

	Fibr	Mi	Pe	Gr	CaCO	CaSO	OT
A CREAM WINDOW GLAZING W/ TAN PAINT							
B							
C							
D							
E							

Point Count

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 Point Count By:

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Point Count Total: _____

EM#: 1001721 Client Sample #: W18

Sub-Part Percent	A	B	C	D	E
ASBESTOS FIBERS	100				
CHRYSOTILE					
AMOSITE					
CROCIDOLITE					
TREMOLITE-ACTINOLITE					
ANTHOPHYLLITE					
TOTAL ASBESTOS:	0				
NON-ASBESTOS FIBERS					
NON-FIBROUS CONSTITUENTS	100				

PART: *Physical Description:*

	Fibr	Mi	Pe	Gr	CaCO	CaSO	OT
A WHITE WINDOW GLAZING W/ TAN PAINT							
B							
C							
D							
E							

Point Count

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 Point Count By:

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Point Count Total: _____

ANALYZED BY: RSW DATE ANALYZED: 9/17/05

BASIC SCOPE CAL: _____
 (record on first analysis form in series)

RESERVOIRS ENVIRONMENTAL SERVICES, INC.
 PLM ASBESTOS ANALYSIS - SHORT REPORT

DUE DATE: 9/19/05
 DUE TIME: 9:00 AM

RES#: 120037
 EM#: 1001722

Storage Box#: 9/15/05
 Client Sample #: W19

Sub-Part Percent	A	B	C	D	E
ASBESTOS FIBERS	50	50			
CHRYSOTILE					
AMOSITE					
CROCIDOLITE					
TREMOLITE-ACTINOLITE					
ANTHOPHYLLITE					
TOTAL ASBESTOS	0	0			
NON-ASBESTOS FIBERS					
NON-FIBROUS CONSTITUENTS	100	100			

PART: *Physical Description:*

	Fibr	Mi	Pe	Gr	CaCO ₃	CaSO ₄	OT
A. CREAM WINDOW GLAZING W/ CREAM PAINT							
B. WHITE WINDOW GLAZING W/ TAU PAINT							
C							
D							
E							

Point Count

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 Point Count By:

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Point Count Total _____

EM#: 1001723 Client Sample #: W20

Sub-Part Percent	A	B	C	D	E
ASBESTOS FIBERS	100				
CHRYSOTILE					
AMOSITE					
CROCIDOLITE					
TREMOLITE-ACTINOLITE					
ANTHOPHYLLITE					
TOTAL ASBESTOS	0				
NON-ASBESTOS FIBERS	100				
NON-FIBROUS CONSTITUENTS					

PART: *Physical Description:*

	Fibr	Mi	Pe	Gr	CaCO ₃	CaSO ₄	OT
A. WHITE WINDOW GLAZING W/ GR TAU PAINT							
B							
C							
D							
E							

Point Count

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 Point Count By:

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Point Count Total _____

ANALYZED BY: RSW DATE ANALYZED: 9/17/05 BASIC SCOPE CAL: _____
 (record on first analysis form in series)

RESERVOIRS ENVIRONMENTAL SERVICES, INC.
PLM ASBESTOS ANALYSIS - SHORT REPORT

DUE DATE: 9/19/05
DUE TIME: 9:00 PM

RES#: 120037
EM#: 1001724

Storage Box#: 9/15/05
Client Sample #: W21

Sub-Part Percent	A	B	C	D	E
ASBESTOS FIBERS	10	90			
CHRYSTOTILE					
AMOSITE					
CROCIDOLITE					
TREMOLITE-ACTINOLITE					
ANTHOPHYLLITE					
TOTAL ASBESTOS:	0	0			
NON-ASBESTOS FIBERS	-	-			
NON-FIBROUS CONSTITUENTS	100	100			

RED

PART: *Physical Description:*

A	B	C	D	E
WHITE WINDOW GLAZING w/ TAN PAINT				
CREAM WINDOW GLAZING w/ CREAM PAINT				

Point Count

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 Point Count By:

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Point Count Total: _____

EM#: 1001725 Client Sample #: W22

Sub-Part Percent	A	B	C	D	E
ASBESTOS FIBERS	100				
CHRYSTOTILE					
AMOSITE					
CROCIDOLITE					
TREMOLITE-ACTINOLITE					
ANTHOPHYLLITE					
TOTAL ASBESTOS:	0				
NON-ASBESTOS FIBERS	-				
NON-FIBROUS CONSTITUENTS	100				

PART: *Physical Description:*

A	B	C	D	E
CREAM WINDOW GLAZING w/ TAN PAINT				

Point Count

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 Point Count By:

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Point Count Total: _____

ANALYZED BY: RSW DATE ANALYZED: 9/17/05

BASIC SCOPE CAL: _____
(record on first analysis form in series)


RESERVOIRS ENVIRONMENTAL SERVICES, INC.
 PLM ASBESTOS ANALYSIS - SHORT REPORT

DUE DATE: 9/19/05
 DUE TIME: 9:00 AM

RES#: 120037
 EM#: 1001726

Storage Box#: 9/15/05
 Client Sample #: W23

Sub-Part Percent	A	B	C	D	E
ASBESTOS FIBERS					
CHRYSOITILE					
AMOSITE					
CROCIDOLITE					
TREMOLITE-ACTINOLITE					
ANTHOPHYLLITE					
TOTAL ASBESTOS:					
NON-ASBESTOS FIBERS					
NON-FIBROUS CONSTITUENTS					

NO SAMPLE
 IN BAG


PART:	Physical Description:	Fibr	Mi	Pe	Gr	CaCO	CaSO	OT
A								
B								
C								
D								
E								

Point Count

--	--	--	--	--	--	--	--	--

 Point Count By: _____
 Point Count Total: _____

EM#: 1001727 Client Sample #: W24

Sub-Part Percent	A	B	C	D	E
ASBESTOS FIBERS					
CHRYSOITILE					
AMOSITE					
CROCIDOLITE					
TREMOLITE-ACTINOLITE					
ANTHOPHYLLITE					
TOTAL ASBESTOS:	0				
NON-ASBESTOS FIBERS					
NON-FIBROUS CONSTITUENTS	100				

PART:	Physical Description:	Fibr	Mi	Pe	Gr	CaCO	CaSO	OT
A	CREAM WINDOW GLAZING w/ CREAM PAINT					CaCO		OT
B								
C								
D								
E								

Point Count

--	--	--	--	--	--	--	--	--

 Point Count By: _____
 Point Count Total: _____

ANALYZED BY: RSW DATE ANALYZED: 9/17/05

BASIC SCOPE CAL _____
 (record on first analysis form in series)

RESERVOIRS ENVIRONMENTAL SERVICES, INC.
 PLM ASBESTOS ANALYSIS - SHORT REPORT

DUE DATE: 9/13/05
 DUE TIME: 9:00 AM

RES#: 120037
 EM#: 1001728

Storage Box#: 9/15/05
 Client Sample #: W25

Sub-Part Percent	A	B	C	D	E
ASBESTOS FIBERS	100				
CHRYSOTILE					
AMOSITE					
CROCIDOLITE					
TREMOLITE-ACTINOLITE					
ANTHOPHYLLITE					
TOTAL ASBESTOS:	0				
NON-ASBESTOS FIBERS	-				
NON-FIBROUS CONSTITUENTS	100				

PART: *Physical Description:*

A	B	C	D	E
CREAM WINDOW GLAZING w/TAN PAINT				

Fibr Mi Pe Gr CaCO CaSO OT

Point Count

--	--	--	--	--	--	--

 Point Count By:

--	--	--	--	--	--	--

Point Count Total: _____

EM#: 1001729 Client Sample #: W26

Sub-Part Percent	A	B	C	D	E
ASBESTOS FIBERS	100				
CHRYSOTILE					
AMOSITE					
CROCIDOLITE					
TREMOLITE-ACTINOLITE					
ANTHOPHYLLITE					
TOTAL ASBESTOS:	0				
NON-ASBESTOS FIBERS	-				
NON-FIBROUS CONSTITUENTS	100				

PART: *Physical Description:*

A	B	C	D	E
CREAM WINDOW GLAZING w/ CREAM PAINT				

Fibr Mi Pe Gr CaCO CaSO OT

Point Count

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 Point Count By:

--	--	--	--	--	--	--

Point Count Total: _____

ANALYZED BY: RSW DATE ANALYZED: 9/17/05

BASIC SCOPE CAL: _____
 (record on first analysis form in series)

RESERVOIRS ENVIRONMENTAL SERVICES, INC.
 PLM ASBESTOS ANALYSIS - SHORT REPORT

DUE DATE: 9/19/05
 DUE TIME: 9:00 AM

RES#: 120037
 EM#: 1001730

Storage Box#: 9/15/05
 Client Sample #: WAT

Sub-Part Percent	A	B	C	D	E
ASBESTOS FIBERS	100				
CHRYSOTILE					
AMOSITE					
CROCIDOLITE					
TREMOLITE-ACTINOLITE					
ANTHOPHYLLITE					
TOTAL ASBESTOS	0				
NON-ASBESTOS FIBERS	-				
NON-FIBROUS CONSTITUENTS	100				

PART: *Physical Description:*

A	B	C	D	E
WHITE WINDOW GLAZING W/TAN PAINT				

Point Count

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 Point Count By: _____

Point Count Total: _____

EM#: 1001731 Client Sample #: WZB

Sub-Part Percent	A	B	C	D	E
ASBESTOS FIBERS	100				
CHRYSOTILE					
AMOSITE					
CROCIDOLITE					
TREMOLITE-ACTINOLITE					
ANTHOPHYLLITE					
TOTAL ASBESTOS	0				
NON-ASBESTOS FIBERS	-				
NON-FIBROUS CONSTITUENTS	100				

PART: *Physical Description:*

A	B	C	D	E
CREAM WINDOW GLAZING W/ TAN PAINT				

Point Count

--	--	--	--	--	--	--	--	--	--

 Point Count By: _____

Point Count Total: _____

ANALYZED BY RSW DATE ANALYZED 9/17/05 BASIC SCOPE CAL _____
 (record on first analysis form in series)

RESERVOIRS ENVIRONMENTAL SERVICES, INC.
 PLM ASBESTOS ANALYSIS - SHORT REPORT

DUE DATE: 9/19/05
 DUE TIME: 9:00 AM

RES#: 120037
 EM#: 1001732

Storage Box#: 9/15/05
 Client Sample #: W39

	Sub-Part Percent	A	B	C	D	E
ASBESTOS FIBERS						
	CHRYSOTILE	100				
	AMOSITE					
	CROCIDOLITE					
	TREMOLITE-ACTINOLITE					
	ANTHOPHYLLITE					
	TOTAL ASBESTOS:	0				
	NON-ASBESTOS FIBERS	-				
	NON-FIBROUS CONSTITUENTS	100				

PART: *Physical Description:*

A	B	C	D	E	Fibr	Mi	Pe	Gr	CaCO	CaSO	OT
CREAM WINDOW GLAZING W/TAN PAINT									CaCO	CaSO	OT
									CaCO	CaSO	OT
									CaCO	CaSO	OT
									CaCO	CaSO	OT
									CaCO	CaSO	OT

Point Count

--	--	--	--	--	--	--	--

Point Count By:

Point Count Total: _____

EM#: 1001733

Client Sample #: W30

	Sub-Part Percent	A	B	C	D	E
ASBESTOS FIBERS						
	CHRYSOTILE	100				
	AMOSITE					
	CROCIDOLITE					
	TREMOLITE-ACTINOLITE					
	ANTHOPHYLLITE					
	TOTAL ASBESTOS:	0				
	NON-ASBESTOS FIBERS	-				
	NON-FIBROUS CONSTITUENTS	100				

PART: *Physical Description:*

A	B	C	D	E	Fibr	Mi	Pe	Gr	CaCO	CaSO	OT
CREAM GLAZE W/TAN PAINT									CaCO	CaSO	OT
									CaCO	CaSO	OT
									CaCO	CaSO	OT
									CaCO	CaSO	OT
									CaCO	CaSO	OT

Point Count

--	--	--	--	--	--	--	--

Point Count By:

Point Count Total: _____

ANALYZED BY: RSW DATE ANALYZED: 9/17/05

BASIC SCOPE CAL: _____
 (record on first analysis form in series)

RESERVOIRS ENVIRONMENTAL SERVICES, INC.
 PLM ASBESTOS ANALYSIS - SHORT REPORT

DUE DATE: 9/19/05
 DUE TIME: 9:00 AM

RES#: 120037
 EM#: 1001734

Storage Box#: 9/15/05
 Client Sample #: W31

Sub-Part Percent	A	B	C	D	E
ASBESTOS FIBERS	100				
CHRYSOTILE					
AMOSITE					
CROCIDOLITE					
TREMOLITE-ACTINOLITE					
ANTHOPHYLLITE					
TOTAL ASBESTOS	0				
NON-ASBESTOS FIBERS	-				
NON-FIBROUS CONSTITUENTS	100				

PART: *Physical Description:*

A	B	C	D	E
CREAM WINDOW GLAZING w/TAN PAINT				

Fibr Mi Pe Gr CaCO CaSO OT

Point Count

--	--	--	--	--	--	--	--

 Point Count By:

--	--	--	--	--	--	--	--

Point Count Total: _____

EM#: 1001735

Client Sample #: W32

Sub-Part Percent	A	B	C	D	E
ASBESTOS FIBERS	100				
CHRYSOTILE					
AMOSITE					
CROCIDOLITE					
TREMOLITE-ACTINOLITE					
ANTHOPHYLLITE					
TOTAL ASBESTOS	0				
NON-ASBESTOS FIBERS	-				
NON-FIBROUS CONSTITUENTS	100				

PART: *Physical Description:*

A	B	C	D	E
CREAM WINDOW GLAZING w/TAN PAINT				

Fibr Mi Pe Gr CaCO CaSO OT

Point Count

--	--	--	--	--	--	--	--

 Point Count By:

--	--	--	--	--	--	--	--

Point Count Total: _____

ANALYZED BY RSW DATE ANALYZED: 9/17/05

BASIC SCOPE CAL: _____
 (record on first analysis form in series)

RESERVOIRS ENVIRONMENTAL SERVICES, INC.
 PLM ASBESTOS ANALYSIS - SHORT REPORT

DUE DATE: 9/19/05
 DUE TIME: 9:00 PM

RES#: 120037
 EM#: 1001736

Storage Box#: 9/15/05
 Client Sample #: W33

	Sub-Part Percent	A	B	C	D	E
ASBESTOS FIBERS						
	CHRYSOTILE					
	AMOSITE					
	CROCIDOLITE					
	TREMOLITE-ACTINOLITE					
	ANTHOPHYLLITE					
	TOTAL ASBESTOS:	<u>0</u>	<u>0</u>			
NON-ASBESTOS FIBERS						
NON-FIBROUS CONSTITUENTS						
		<u>100</u>	<u>100</u>			

PART: *Physical Description:*

	Physical Description	Fibr	Mi	Pe	Gr	CaCO	CaSO	OT
A	<u>WHITE WINDOW GLAZING W/TAN PAINT</u>					<u>CaCO</u>	<u>CaSO</u>	<u>OT</u>
B	<u>CREAM WINDOW GLAZING W/CREAM PAINT</u>					<u>CaCO</u>	<u>CaSO</u>	<u>OT</u>
C						CaCO	CaSO	OT
D						CaCO	CaSO	OT
E						CaCO	CaSO	OT

Point Count

 Point Count By: _____

Point Count Total: _____

EM#: 1001737

Client Sample #: W34

	Sub-Part Percent	A	B	C	D	E
ASBESTOS FIBERS						
	CHRYSOTILE					
	AMOSITE					
	CROCIDOLITE					
	TREMOLITE-ACTINOLITE					
	ANTHOPHYLLITE					
	TOTAL ASBESTOS:	<u>0</u>				
NON-ASBESTOS FIBERS						
NON-FIBROUS CONSTITUENTS						
		<u>100</u>				

PART: *Physical Description:*

	Physical Description	Fibr	Mi	Pe	Gr	CaCO	CaSO	OT
A	<u>CREAM WINDOW GLAZING W/TAN PAINT</u>					<u>CaCO</u>	<u>CaSO</u>	<u>OT</u>
B						CaCO	CaSO	OT
C						CaCO	CaSO	OT
D						CaCO	CaSO	OT
E						CaCO	CaSO	OT

Point Count

 Point Count By: _____

Point Count Total: _____

ANALYZED BY RSW DATE ANALYZED 9/17/05

BASIC SCOPE CAL: _____
 (record on first analysis form in series)

GRAVIMETRIC REDUCTION DATA SHEET

Reservoirs
70007

Lab Name:
Lab Job No.:

EPA Sample Index Number	Lab Sample Number	Sample Ashing						Acid Grinding followed by Filtration						Overall Grav. Reduction Points (GRR)	TEM Visual Estimate (Range %)	Final Calculated Percent Range in Original Sample
		Weight (g. to the nearest 0.01g)			GRR from Ashing			Weight (g. to the nearest 0.01g)			GRR from Acid Grinding					
		Crucible + Sample	Original Sample Mass	Crucible + Ashed Residue	Crucible + Sample	Original Sample Mass	Crucible + Residue	Filter + Dish + Residue	Filter + Dish + Residue	Filter + Dish + Residue	Filter + Dish + Residue	Filter + Dish + Residue	Filter + Dish + Residue			
W1	1001704	9.3088	0.3576	9.5000	0.1992			6.3777	0.0772						#VALUE!	
W2	1001705	9.0857	0.3576	9.1012	0.2055			6.3769	0.0792						#VALUE!	
W3	1001706	9.4820	0.3576	9.6055	0.2005			6.3779	0.0787						#VALUE!	
W4	1001707	7.7329	0.3576	7.6591	0.2202			6.4243	0.0790						#VALUE!	
W5	1001708	9.1155	0.3576	9.3129	0.1982			6.4722	0.0729						#VALUE!	
W6	1001709	9.4992	0.3576	9.5300	0.2200			6.4797	0.0729						#VALUE!	
W7	1001710	9.8006	0.3576	9.3129	0.2202			6.5724	0.0665						#VALUE!	
W8	1001711	9.0668	0.3576	9.3729	0.3110			6.5737	0.0713						#VALUE!	
W9	1001712	9.1876	0.3576	9.3630	0.2790			6.5707	0.0719						#VALUE!	
W10	1001713	7.5026	0.3576	7.3720	0.3099			6.5901	0.0719						#VALUE!	
W11	1001714	9.1257	0.3576	9.4007	0.2312			6.5729	0.0717						#VALUE!	
W12	1001715	9.5012	0.3576	9.6760	0.1150			6.5715	0.0653						#VALUE!	
W13	1001716	9.6729	0.3576	9.3039	0.2282			6.5788	0.0771						#VALUE!	

Final Grav. Estimate

GRAVIMETRIC REDUCTION DATA SHEET

Lab Name:	Regevcoils
Lab Job No.:	120027

EPA Sample Index Number	Lab Sample Number	Sample Ashing						Add Grinding followed by Filtration				Overall Grav. Reduction Ratio (GRR)	TEM Visual Estimate (Range %)	Final Calculated Percent Range in Original Sample
		Weight (g, to the nearest 0.01g)		Crucible + Ashed Sample		Ashed residue	GRR from Ashing	Weight (g, to the nearest 0.01g)		GRR from Mass grinding				
		Crucible	Double + Sample	Original Sample Mass	Crucible + Ashed Sample			Filter + Dish + Residue	Filtrate Residue	Filter + Dish + Residue	Filtrate Residue			
W17	1001717	8.3370	8.5702	0.2332	8.5644	0.2274	0.4334	6.3482	6.0774	0.2708			#VALUE!	
W18	1001718	8.3204	8.7230	0.4026	8.9246	0.6022	0.7011	6.3806	6.3822	0.0016			#VALUE!	
W19	1001719	8.4810	8.6722	0.1912	8.6405	0.1595	0.1983	6.3954	6.3796	0.0158			#VALUE!	
W20	1001720	8.3975	8.6016	0.2041	8.5995	0.2020	0.3190	6.3901	6.3812	0.0089			#VALUE!	
W21	1001721	8.4222	8.7029	0.2807	8.7922	0.1954	0.1954	6.3726	6.3807	0.0081			#VALUE!	
W22	1001722	8.7125	8.7617	0.0492	8.7084	0.2079	0.2079	6.3707	6.3683	0.0024			#VALUE!	
W23	1001723	8.1524	8.2020	0.0496	8.1267	0.3083	0.3083	6.3726	6.4139	0.0413			#VALUE!	
W24	1001724	8.5871	8.6347	0.0476	8.6027	0.2096	0.2096	6.3801	6.3742	0.0059			#VALUE!	
W25	1001725	8.3579	8.4023	0.0444	8.5590	0.2291	0.2291	6.3898	6.3823	0.0075			#VALUE!	
W26	1001726	8.3579	8.3579	0.0000	8.3579	0.0000	0.0000						#VALUE!	
W27	1001727	8.0079	8.7603	0.7524	8.2232	0.2204	0.2204	6.3712	6.3801	0.0089			#VALUE!	
W28	1001728	8.0626	8.3157	0.2531	8.2012	0.1324	0.1324	6.3745	6.3796	0.0051			#VALUE!	
W29	1001729	8.3160	8.4195	0.1035	8.1002	0.1292	0.1292	6.3796	6.3870	0.0074			#VALUE!	

GRAVIMETRIC REDUCTION DATA SHEET

Lab Name:	Reserve/In
Lab Job No	730257

EPA Sample Index Number	Lab Sample Number	Sample Ashing						Acid Grinding followed by Filtration				Overall Grav. Reduction Ratio (GRR)	TEM Visual Estimate (Range %)	Final Calculated Percent Range in Original Sample
		Weight (g. to the nearest 0.01g)		Crucible + Ashed Sample	Original Sample Mass	Ashes residue	GRR from ashing	Weight (g. to the nearest 0.01g)		GRR from Acid grinding				
		Crucible	Crucible + Sample					Filter + Dish + Residue	Filtered Residue					
6227	1001730	8.0967	9.1371	0.2072	8.2917	0.1930		6.3799	6.3853	0.0059			#VALUE!	
6228	1001731	10.9790	11.2223	0.2509	11.0946	0.2326		6.3800	6.3952	0.0152			#VALUE!	
6229	1001732	10.3726	10.5994	0.2502	10.8005	0.4137		6.3799	6.4073	0.0274			#VALUE!	
6230	1001733	10.7311	10.3725	0.3660	10.2652	0.2376		6.3725	6.3577	0.0148			#VALUE!	
6231	1001734	11.0073	11.2687	0.2650	11.3592	0.2295		6.3721	6.3775	0.0199			#VALUE!	
6232	1001735	11.3727	11.6950	0.3276	11.6092	0.3159		6.3721	6.3831	0.0110			#VALUE!	
6233	1001736	10.9223	11.1795	0.2830	11.0917	0.2219		6.3776	6.3720	0.0124			#VALUE!	
6234	1001737	10.9050	10.3861	0.2576	10.3316	0.2278		6.3721	6.3873	0.0122			#VALUE!	
													#VALUE!	
													#VALUE!	
													#VALUE!	
													#VALUE!	
													#VALUE!	
													#VALUE!	
													#VALUE!	

Reservists Environmental, Inc.
 TEM asbestos structure count
 NYLAP # 101886 TDIH # 30-0015

Laboratory name:	RFSI
Instrument:	PEOL 190 C EX
Voltage (KV):	100
Magnification:	2000X 100X
Grid opening area (mm ²):	0.110
Scale: 11. =	0.28
Scale: 10. =	0.050
Primary filter area (mm ²):	385
Secondary filter area (mm ²):	291

Offert Sample Number:	Bulk
Sample Type (A=Air, D=Dust):	—
Air volume (L) or dust area (mm ²):	9-17-05
Date received by Lab:	120037
Lab Job Number:	See
Lab Sample Number:	Below

Analyzed by:	PBC
Analysis date:	9-24-05
Method (D=Direct, I=Indirect):	
Counting rules (ISO 10312, A=ASPER, etc):	Gravimetric TEA
Grid sample location:	Month Analyzed

Secondary Prep:	
Fraction of primary filter used:	
Total respirator volume (ml):	
Volume filtered for secondary prep (ml):	
QA Type (Not QA, Recount Same, Recount Diff, Recount, Verified Anal, Lab Blank)	

Grid	Grid Opening	Structure Type	No. of Structures		Dimensions			Identification	Mineral Class (see below)			Sketch	Photo	EDS
			Primary	Total	Length	Width	LA		OA	C				
EM	1001704		490		24	10	ADX							
EM	1001705		490		18	6	ADX							
EM	1001706		No		Asbestos Detected									
EM	1001707		No		Asbestos Detected									
EM	1001708		No		Asbestos Detected									
EM	1001709		No		Asbestos Detected									
EM	1001710		No		Asbestos Detected									
EM	1001711		No		Asbestos Detected									
EM	1001712		No		Asbestos Detected									
EM	1001713		No		Asbestos Detected									
EM	1001714		490		16	5	DX							
EM	1001715		No		Asbestos Detected									

Laboratory name:	RESI
Instrument	JCOL 100 C EX
Voltage (KV)	10V
Magnification	10KX 10 KX
Grid opening area (mm ²)	1.0110
Scale: H. =	0.28
Scale: D =	0.056
Primary filter area (mm ²)	385
Secondary Filter Area (mm ²)	201

Client Sample Number:	
Sample Type (As-Air, D-Dust):	Bulk
Air volume (L) or dust area (cm ²):	---
Date received by lab:	9-17-05
Lab Abs Number:	120037
Lab Sample Number:	See
	Below

Analyzed by:	PKL
Analysis date:	9-24-05
Method (D-Filter, I-Indirect):	
Counting rates (I = ISO 10119, A = AHERA, etc):	Grain method TEM
Grid storage location:	Month Analyzed:
Secondary Filter:	
Fraction of primary filter used:	
Total resuspension volume (ml):	
Volume filtered for secondary prep (ml):	
QA Type (Not QA, Repeat Spore, Repeat Diff, Re-prep, Verified Anal, Lab Blank):	

Grid	Grid Opening	Sealant Type	No. of Structures	Dimensions		Identification	Mineral Class (see index)			Sketch	Use yes, blank or no	
				Primary	Total		Length	Width	I		DA	C
EM	1001716		No	No	Asbestos Detected							
EM	1001717		No	No	Asbestos Detected							
EM	1001718		No	No	Asbestos Detected							
EM	1001719		No	No	Asbestos Detected							
EM	1001720		No	No	Asbestos Detected							
EM	1001721		No	No	Asbestos Detected							
EM	1001722		No	No	Asbestos Detected							
EM	1001723		No	No	Asbestos Detected							
EM	1001724		No	No	Asbestos Detected							
EM	1001725		No	No	Asbestos Detected							
EM	1001726		No	No	Sample in Bag							
EM	1001727		No	No	Asbestos Detected							

Reservoirs Environmental, Inc.
 TEM asbestos structure count
 NPL SIP # 301895 TDH # 30-0015

Page # of 3
 9-24-05 3

Laboratory name:	RESI
Instrument	JEOL 100 C <input checked="" type="checkbox"/>
Voltage (KV)	100
Magnification	2000X to 8000X
Grid opening area (mm ²)	0.112
Scale: H. "	0.28
Scale: ID "	0.056
Primary filter area (mm ²)	185
Secondary Filter Area (mm ²)	201

Client Sample Number:	Bulk
Sample Type (A=Air, D=Dust):	—
Air volume (L) or dust area (mm ²):	9-17-05
Date received by lab:	120037
Lab Job Number:	See
Lab Sample Number:	Below

Analyzed by:	ZOL
Analysis date:	9-24-05
Method (D=Direct, I=Indirect):	Gravimetric
Counting rules (E=ISO 10112, A=ASHERA, etc):	TBA
Grid average location:	Month Analyzed:

Secondary Filter	
Fraction of primary filter used:	
Total re-suspension volume (ml):	
Volume filtered for secondary filter (ml):	
QA Type (NA=QA, Recount Same, Recount Diff, Re-prep, Verified Anal, Lab Blank):	

Grid	Grid Opening	Structure Type	No. of Structures		Dimensions:			Identification	Mineral Class (see below)			Sketch/Comments	1 = yes, blank = no		
			Primary	Total	Length	Width	EA		QA	C	Sketch		Photo	EDS	
EM	1001728		No	No	Asbestos Detected.										
EM	1001729		No	No	Asbestos Detected.										
EM	1001730		No	No	Asbestos Detected.										
EM	1001731		No	No	Asbestos Detected.										
EM	1001732		No	No	Asbestos Detected.										
EM	1001733		No	No	Asbestos Detected.										
EM	1001734		No	No	Asbestos Detected.										
EM	1001735		No	No	Asbestos Detected.										
EM	1001736		No	No	Asbestos Detected.										
EM	1001737		No	No	Asbestos Detected.										

Paul A. [Signature]
 Respiratory S&ED
 Respiratory S&ED

Appendix F

Decision Logic Flow Chart for Hazard Assessments

DECISION LOGIC FLOWCHART

for Hazard Assessments

