

ENVIRONMENTAL INSPECTION REPORT

Prepared for:



Mr. David Hartshorn, GSA Heartland Region
Industrial Hygienist
Facilities Management Division 6PF
1500 East Bannister Road, Room 2101
Kansas City, Missouri 64131-3088

Project Location:

St. Louis Federal Complex - Building #105F
4300 Goodfellow Boulevard
St. Louis, Missouri 63120

Prepared by:



6501 East Commerce Avenue, Suite 230
Kansas City, MO 64120

May 9, 2008

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- A: Name of Inspector(s) and Accreditation
- B: Homogeneous Areas
- C: Asbestos Analytical Results & Chain of Custody
- D: XRF Lead-Based Paint Summary Report
- E: Microorganism Analytical Results & Chain of Custody

1. GENERAL INFORMATION

As authorized by GSA – Heartland, OCCU-TEC conducted an Environmental Inspection of Building #105F at the St. Louis Federal Complex, located at 4300 Goodfellow Blvd. in St Louis, Missouri. The inspection took place on April 23, 2008 and consisted of a limited asbestos-containing materials inspection, a limited lead-based paint inspection, and a limited survey for microorganisms. The areas to be inspected were determined by GSA and limited to only those areas. The portions of the building to be inspected included the 1st Floor – south of Columns #33-37, and the Crawl Space. Appendix A contains the inspector(s) accreditation documentation.

2. ASBESTOS INSPECTION PROCEDURES

The following outlines the procedures and protocols that were utilized by representatives of OCCU-TEC while conducting the asbestos inspection.

2.1 General

- A. The inspection was conducted by a/an accredited inspector(s).
- B. The inspector(s):
 - 1. Visually inspected the area to identify the locations of suspected asbestos-containing building material (ACBM).
 - 2. Touched all suspected ACBM to determine friability.
 - 3. Identified all homogeneous areas of suspected friable and nonfriable ACBM.
 - 4. Sampled each identified homogeneous area in accordance with 29 CFR 1910.1001 pursuant to the requirements of 40 CFR 763.86, or assumed the material to be an ACBM.
 - 5. Assessed each identified homogeneous area in each functional space in accordance with 29 CFR 1910.1001 pursuant to the requirements of 40 CFR 763.88.
 - 6. Recorded the following information:
 - a. The date of the inspection, the name and signature of the person(s) performing the inspection, and the inspector accreditation number.
 - b. An inventory of the locations of the homogeneous areas where samples were collected, exact location where each bulk sample was collected, dates that samples were collected, and homogeneous areas where

suspected ACBM is assumed to be asbestos-containing material (ACM).

- c. A description of the manner used to determine sampling locations, the name and signature of each inspector who collected the samples, and accreditation number.
- d. A list of homogeneous areas identified as surfacing material, thermal system insulation, or miscellaneous material.
- e. Assessments made of material, the name and signature of each inspector who made the assessments and accreditation number.

2.2 Sampling of Suspect Asbestos-Containing Materials

A. Surfacing Material.

1. The inspector collected samples in a discrete and random manner that is representative of the homogeneous material.
2. Bulk samples were collected from each homogeneous area in accordance with AHERA/discrete sampling protocol for surfacing materials.

B. Thermal System Insulation.

1. When possible, samples were collected from damaged areas of the thermal system insulation. If damaged areas were not available, the material was sampled in areas which would be subjected to the least amount of disturbance.
2. A minimum of three bulk samples were collected from each homogeneous area of thermal system insulation not assumed to be ACM.
3. One bulk sample was collected from each homogeneous area of patched (less than six linear or square feet) thermal system insulation not assumed to be ACM.
4. A minimum of three bulk samples were collected from pipe fittings.
5. Homogeneous areas the inspector determined to be fiberglass, foam glass, rubber, or other non-ACBM were not sampled.

C. Miscellaneous Materials.

1. A minimum of one sample was collected from each homogeneous area.

2.3 Assessment of Suspect Asbestos-Containing Materials

- A. The inspector(s) provided a written assessment of all known or assumed ACBM in the property.
- B. The name, signature, and accreditation number of the inspector(s) is/are included in the report.
- C. The assessment included the following considerations:
 - 1. Location and the amount of material, both in total quantity and as a percentage of the functional space.
 - 2. Condition of the material, specifying:
 - a. Type of damage or significant damage (e.g. deterioration, physical contact, and/or water damage).
 - b. Severity of damage (e.g. major flaking, severely torn jackets, as opposed to occasional flaking, minor tears to jackets).
 - c. Extent of spread of damage over large areas or large percentages of the homogeneous area.
 - 3. Whether the material is accessible.
 - 4. The material's potential for disturbance.

3. HOMOGENOUS SUMMARY REPORTS

OCCU-TEC, Inc. identified and sampled suspect asbestos-containing materials (ACM), using Environmental Protection Agency AHERA/discrete sampling protocols. The suspect ACM were separated into homogenous areas (HA) and sampled accordingly. A listing of the homogeneous areas identified during the inspection is presented in Appendix B.

4. ASBESTOS BULK SAMPLE ANALYSIS

The samples were submitted to Bureau Veritas – North America for analysis. The National Institute of Standards and Technology (NIST) accredits the labs under the National Voluntary Laboratory Accreditation Program (NVLAP). The NVLAP Lab code number for Bureau Veritas is 101125-0. Each bulk sample was analyzed by polarized light microscopy (PLM) using the dispersion staining technique, as set forth in 40 CFR 763, Subpart E, Appendix E, *Interim Method for the Determination of Asbestos in Bulk Insulation Samples*. A listing of the bulk samples collected and the analytical results are presented in Appendix C.

A material is considered to be an ACM if at least one sample collected from the homogenous area showed asbestos present in an amount greater than one percent (1%), which is in accordance with the definition of ACM as per AHERA.

5. ASBESTOS-CONTAINING MATERIALS

A listing of the bulk samples collected during the inspection at Building #105F is presented in Appendix C. The materials which were asbestos-containing are presented below along with their locations and quantities.

SAMPLE NUMBER	SAMPLE DESCRIPTION	LOCATION	QUANTITY	FRIABLE/ NONFRIABLE	MATERIAL CLASS
FM-8-1	Black Mastic	South Stairwell	133 SF	Nonfriable	Miscellaneous
DB-12-1	Debris	Crawl Space – NE quadrant	750 SF	Friable	Miscellaneous
DB-12-2	Debris	Crawl Space – NE quadrant	750 SF	Friable	Miscellaneous
DB-12-4	Debris	Crawl Space – SW quadrant	750 SF	Friable	Miscellaneous

6. LIMITATIONS OF ASBESTOS INSPECTION

OCCU-TEC, Inc. identified and collected samples of suspect ACM from Building #105F. Although every reasonable effort was made to access all suspect asbestos-containing materials located within the subject survey area, destructive means were not used at the request of the client. If, during renovation or demolition activities, materials are found that do not match materials sampled, they should be Presumed Asbestos-Containing Materials (PACM), as defined in 29 CFR 1926.1101 (*Asbestos*), and treated as ACM until sampling and laboratory analysis meeting the OSHA requirements is conducted.

7. CERTIFICATION OF ASBESTOS INSPECTION

I, the undersigned, being an employee of OCCU-TEC, Inc. located at 6501 East Commerce Avenue, Suite 230, Kansas City, Missouri 64120, hereby certify that all applicable environmental regulations were adhered to during the inspection for asbestos-containing building

materials at Building #105F located at the St. Louis Federal Complex in St. Louis, Missouri.

(b) (7)(F)

Jeff T. Smith

AHERA Asbestos Inspector Number:

7-OT-06186R

Expiration Date: June 25, 2008

8. LEAD-BASED PAINT INSPECTION PROCEDURES

Using protocol developed by Federal Housing and Urban Development (HUD), Chapter 7, 1997 Revision, a representative number of rooms and common areas were chosen for inspection.

While conducting the inspection within the selected buildings or areas, HUD protocol was used in determining components likely to contain lead-based paint.

The inspection was conducted using RMD's LPA-1 X-ray Florescence (XRF) detector, Serial # 01063, Registration # IRM-83 with a Cobalt - 57 source which was last replaced on December 6, 2007. This model is state of the art equipment using x-ray fluorescence to analyze numerous paint layers for lead, with a 95% confidence level.

The LPA-1 unit was operated in the "Quick Mode" setting. This mode varies the instrument reading time until a 95% confidence level is achieved, as determined by the onboard processor. This mode also has the lowest substrate bias, smallest inconclusive range, and does not require substrate correction readings, as stated in RMD's HUD "XRF Performance Characteristic Sheet." Substrate correction is not recommended for brick, concrete, drywall, metal, plaster, or wood when conducting "Quick Mode" readings. Additionally, readings of the listed substrates have a Threshold Value of 1 milligram per square centimeter (1.0 mg/cm²), which separates positive readings from negative readings. The only substrate in the above group with an inconclusive range is metal. The inconclusive range for metal is 1.0 to 1.2 mg/cm². For the purpose of this report, readings at or above 1.0 mg/cm² on metal substrates are considered positive for lead.

A minimum of three calibration check readings were taken, using a 1.0 mg/cm² calibration block, before beginning the inspection, after four hours, and at the end of testing for the day. RMD's HUD XRF Performance Characteristic Sheet, Edition 3, November 27, 1995, set the XRF Calibration Check Limits as 0.7 to 1.3 mg/cm². All calibration readings were within acceptable limits.

Housing and Urban Development (HUD) defines lead based paint as any paint or other surface coating materials that contain lead equal to or in excess of one milligram per square centimeter or more than five-tenths percent by weight. The **XRF Sample Sheets** (attached) will show all components that tested at or above the HUD lead standard of 1.0 milligram per square centimeter (1.0 mg/cm²). If there are components that were not tested, they must be considered lead

containing.

9. SUMMARY OF LEAD-BASED PAINT INSPECTION RESULTS

For a listing of all XRF readings, listed room by room, refer to Appendix D. The XRF readings that were determined to be lead-containing components (greater than or equal to 1.0 mg/cm²) were indicated in **bold**.

Every effort was made to fully and completely evaluate suspect Lead-Based Paint containing surfaces on interior and exterior building components at the subject property. OCCU-TEC maintains that the surfaces analyzed, materials observed, and results reported are factual and accurate.

10. LIMITATIONS OF LEAD-BASED PAINT INSPECTION

OCCU-TEC has made reasonable effort to access through non-destructive means, unknown or inaccessible areas or components of the building. If untested components are observed, they should be presumed to be lead-containing, or further testing of said components should be undertaken.

This report was based upon the information provided and observations made during the Inspection. This Inspection Report is a tool to identify lead-based paint. It should not be considered a legal defense in connection with environmental laws.

11. CERTIFICATION OF LEAD-BASED PAINT INSPECTION

I, the undersigned, being an employee of OCCU-TEC located at 6501 East Commerce Avenue, Suite 230, Kansas City, Missouri 64120, hereby certify that all applicable environmental regulations were adhered to during the inspection for lead-based paint at Building #105F at the St. Louis Federal Complex in St. Louis, Missouri.

(b) (6)

Jeff T. Smith
EPA Lead Risk Assessor Number:
LHRAR013107-04
Expiration Date: January 31, 2009

12. MICROORGANISM SURVEY

As requested, OCCU-TEC Inc. conducted the subject sampling of Building #105F at the St. Louis Federal Center. Possible microorganism growth was identified above various ceiling tiles, in the Dining area, at some of the supply duct diffusers, on an old exhaust duct from kitchen

equipment, and on the drywall near the loading dock.

The testing was conducted on April 23, 2008. Surface samples were collected utilizing the tape-lift method. A total of four surface samples were collected from areas in the subject survey area where visible suspect microorganism growth was observed. The tape lift samples were submitted to Bureau Veritas North America, Inc. for analyses.

RESULTS AND DISCUSSION

The results from the tape lift samples indicated the following:

- On the ceiling mounted supply diffuser in the Dining area, results indicate “trace” (<1% of viewing area with fungal growth) levels of smut, Nigrospora, unidentifiable fungus, unidentifiable hyphae, Epicoccum, Cladosporium, Pithomyces, Aspergillus/Penicillium, and Alternaria.
- From the top of the ceiling tile in the Dining area, results indicate “few” (1% - <25% of viewing area with fungal growth) levels of unidentifiable hyphae, and Cladosporium.
- From an exhaust duct from the abandoned kitchen equipment in the Serving area, results indicate “Many” (25 to <100% spores / viewing area) Cladisorium spores and “trace” (<1% of viewing area with fungal growth) Alternaria spores.
- From the drywall in the southwest corner of the Storage Room, results indicate “Many” (25 to <100% spores / viewing area) Stachybotrys and Cladosporium spores, “few” (1% - <25% of viewing area with fungal growth) Alternaria spores and “trace” (<1% of viewing area with fungal growth) Chaetomium spores.

In summary, the laboratory results suggest the presence of fungal growth within the survey area. Of particular concern would be the southwest corner of the Storage Room. Currently, there are no standards or regulations for exposure to fungi, but there are guidelines for remediation. The New York City Department of Health, Bureau of Environmental & Occupational Disease Epidemiology, *Guidelines on Assessment and Remediation of Fungi in Indoor Environments*, states the following:

“Susceptibility varies with the genetic predisposition (e.g., allergic reactions do not always occur in all individuals), age, state of health, and concurrent exposures. For these reasons, and because measurements of exposure are not standardized and biological markers of exposure to fungi are largely unknown, it is not possible to determine “safe” or “unsafe” levels of exposure for people in general.”

Mold prevention tips include:

- Determine the source of the water infiltration. Consult a roofing and / or window specialist and seal appropriately.
- Remediate existing molded drywall, according to EPA’s recommendations in *Mold Remediation in Schools and Commercial Buildings* to prevent spreading issues.

- Watch for condensation and wet spots. Fix sources of moisture problems as soon as possible. Prevent moisture due to condensation by increasing surface temperature or reducing the humidity.
- Keep HVAC drip pans clean, flowing properly, and unobstructed. A regular maintenance program of cleaning the units and changing the filters would prevent future problems and identify water damage sooner.
- Maintain low indoor humidity, below 60% relative humidity, ideally 30% to 50%.
- Clean and dry wet spots within 48 hours.

Appendix E, Laboratory Results, are attached and give the laboratory data from Bureau Veritas North America, Inc.

OCCU-TEC appreciates the opportunity to provide the GSA with the subject survey. Please contact us if you have any questions or comments concerning this report or if we can be of further assistance.

Sincerely,

(b) (6)

Jeff T. Smith
Project Manager

Appendix A

Inspectors Accreditation

THIS CERTIFIES THAT

Jeff Smith

has successfully completed the course and examination for

ASBESTOS INSPECTOR REFRESHER TRAINING

as specified by the E.P.A.

**AHERA Regulations-NESHAP and TSCA Title II and
The State of Missouri MO-00-07-020**



OCCU-TEC

SAFETY AND ENVIRONMENTAL SOLUTIONS

6501 E. Commerce, Suite 230
Kansas City, Missouri 64120

6/25/2007

Course Date



Program Coordinator

7-OT-06186R

Certificate Number

6/25/2008

Expiration Date

STATE OF MISSOURI
ENVIRONMENTAL REGULATION & LICENSURE

LEAD OCCUPATION LICENSE REGISTRATION

Issued to:

Jeffrey T Smith

The person, firm or corporation whose name appears on this certificate has fulfilled the requirements for licensure as set forth in the Missouri Revised Statutes 701.300-701.338, as long as not suspended or revoked, and is hereby authorized to engage in the activity listed below.

Risk Assessor
Category of License

Issuance Date: **March 16, 2007**
Expiration Date: **March 16, 2009**
License Number: **010316-200089640**

(b) (6)



Jane Drummond
Director
Department of Health and Senior Services

Appendix B

Homogeneous Areas



6501 COMMERCE AVE.
 SUITE 230
 KANSAS CITY, MO 64120
 PH: (816) 231-5580
 FAX: (816) 231-5641

HOMOGENEOUS AREAS

BUILDING NAME: St. Louis Federal Complex - Bldg. #105F

Date of Inspection: 4/23/08

INSPECTOR(S): Jeff Smith

HA NO	MATERIAL DESCRIPTION	MATERIAL TYPE	FRIABLE/ NONFRIABLE	ACM	TOTAL QUANTITY
1	Covebase and Mastic - 4" grey	Miscellaneous	Nonfriable	No	20 LF
2	Wallpaper - textured	Miscellaneous	Friable	No	720 SF
3	Drywall - white	Miscellaneous	Nonfriable	No	3095 SF
4	Drywall Joint Compound - White	Miscellaneous	Nonfriable	No	3095 SF
5	Ceiling Tile - 2'x2' white	Miscellaneous	Friable	No	250 SF
6	Ceiling Tile - 2'x4' white with large fissures	Miscellaneous	Friable	No	40 SF
7	Ceiling Tile - 2'x4' white with fake 2'x2' pattern	Miscellaneous	Friable	No	880 SF
8	Mastic - black (no floor tile)	Miscellaneous	Nonfriable	Yes	133 SF
9	Drywall - white (new)	Miscellaneous	Nonfriable	No	840 SF
10	Drywall Joint Compound - White (new)	Miscellaneous	Nonfriable	No	840 SF
11	Covebase and Mastic - 4" brown	Miscellaneous	Nonfriable	No	50 LF
12	Debris in Crawl Space	Miscellaneous	Friable	Yes	750 SF

LEGEND: ACM = ASBESTOS CONTAINING MATERIAL
 Y = YES, MATERIAL IS ACM
 N = NO, MATERIAL IS NOT ACM
 AA-1 = ASSUMED ASBESTOS CONTAINING MATERIAL
 TR=LESS THAN 1% ASBESTOS-CONTAINING MATERIAL
 TSI=THERMAL SYSTEM INSULATION
 LF = LINEAR FEET
 SF = SQUARE FEET
 CF = CUBIC FEET
 C = Chrysotile
 A = Amosite

Appendix C

**Asbestos Analytical Results and
Chain of Custody**



May 05, 2008

Jay Hurst
OCCU-TEC INC.
6501 E. Commerce
Suite 230
Kansas City, MO 64120

Bureau Veritas Work Order No. A0804250

Reference: 98059-ST.LOUIS FEDERAL CENTER BLDG. #105F

Dear Jay Hurst:

Bureau Veritas North America, Inc. received 19 samples on 4/25/2008 1:31:21 PM and reported on 5/5/2008 3:51:36 PM for the analyses presented in the following report.

The results apply only to the samples analyzed in this project. Please note that any unused portion of the samples will be discarded after a thirty-day holding period, unless you have requested otherwise.

We appreciate the opportunity to assist you. If you have any questions concerning the report, please contact the analyst whose name appears on the report or myself at (770) 499-7500.

Sincerely,

(b) (6)

Alan M. Segrave, P.G.
Director, Laboratory Services

Bureau Veritas North America, Inc.

Health, Safety, and Environmental Services
3380 Chastain Meadows Parkway, Suite 300
Kennesaw, GA 30144

Main: (770) 499-7500
Fax: (770) 499-7511
www.us.bureauveritas.com



ANALYTICAL RESULTS

Date: 05-May-08

CLIENT: OCCU-TEC INC.

Sample Type: Bulk

Work Order No.: A0804250

Date Received: 4/25/2008

Client Reference: 98059-ST.LOUIS FEDERAL CENTER BLDG. #105F

Report Date: 05-May-08

Method Reference: EPA-600/M4-82-020/EPA/600/R-93/116/NYELAP

Lab ID	Client Sample ID	Analyst	Date Sampled	Date Analyzed			
001A	BBDMAS-1-1	NG	04/23/2008	05/05/2008			
Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	85	Homogeneous Gray Baseboard	None Detected		Non-Detected		Binder/Filler
(2)	10	Homogeneous Off-White Tape	None Detected		Cellulose fiber	40%	Binder/Filler
(3)	3	Homogeneous Yellow Mastic	None Detected		Non-Detected		Binder/Filler
(4)	2	Homogeneous Brown Mastic	None Detected		Wollastonite	5%	Binder/Filler
002A	WP-2-1	NG	04/23/2008	05/05/2008			
Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	100	Homogeneous Gray Wall Paper	None Detected		Cellulose fiber	30%	Binder/Filler
003A	DW-3-1	NG	04/23/2008	05/05/2008			
Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	100	Homogeneous Off-White Drywall	None Detected		Cellulose fiber	10%	Binder/Filler
004A	DW-3-2	NG	04/23/2008	05/05/2008			
Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	100	Homogeneous Off-White Drywall	None Detected		Cellulose fiber	5%	Binder/Filler
005A	DW-3-3	NG	04/23/2008	05/05/2008			
Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	100	Homogeneous Off-White Drywall	None Detected		Cellulose fiber	5%	Binder/Filler
006A	DC-4-1	NG	04/23/2008	05/05/2008			
Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	100	Homogeneous White Joint Compound	None Detected		Non-Detected		Binder/Filler
007A	DC-4-2	NG	04/23/2008	05/05/2008			
Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	100	Homogeneous White Joint Compound	None Detected		Non-Detected		Binder/Filler

The reliable limit of quantitation of the method is 1%, although asbestos may be qualitatively detected at concentrations less than 1%. Samples which asbestos is detected at <1% are reported as trace, "<1%". "None Detected" indicates that no asbestos fibers were observed.

Analyst(s) Name/Date:

(b) (6)

5/5/2008



ANALYTICAL RESULTS

Date: 05-May-08

CLIENT: OCCU-TEC INC. Sample Type: Bulk
 Work Order No.: A0804250 Date Received: 4/25/2008
 Client Reference: 98059-ST.LOUIS FEDERAL CENTER BLDG. #105F Report Date: 05-May-08
 Method Reference: EPA-600/M4-82-020/EPA/600/R-93/116/NYELAP

Lab ID	Client Sample ID	Analyst	Date Sampled	Date Analyzed			
008A	DC-4-3	NG	04/23/2008	05/05/2008			
Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	100	Homogeneous White Joint Compound	None Detected		Non-Detected		Binder/Filler
009A	CT-5-1	NG	04/23/2008	05/05/2008			
Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	100	Homogeneous White Ceiling Tile	None Detected		Cellulose fiber	60%	Binder/Filler
					Mineral wool	10%	Paint Perlite
010A	CT-6-1	NG	04/23/2008	05/05/2008			
Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	100	Homogeneous White Ceiling Tile	None Detected		Cellulose fiber	60%	Binder/Filler
					Mineral wool	10%	Paint Perlite
011A	CT-7-1	NG	04/23/2008	05/05/2008			
Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	100	Homogeneous White Ceiling Tile	None Detected		Cellulose fiber	60%	Binder/Filler
					Mineral wool	10%	Paint Perlite
012A	FM-8-1	NG	04/23/2008	05/05/2008			
Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	50	Homogeneous Black Mastic	Chrysotile	5%	Cellulose fiber	3%	Binder/Filler
(2)	50	Homogeneous White Paint	None Detected		Non-Detected		Binder/Filler
			Total	3%			
013A	DW-9-1	NG	04/23/2008	05/05/2008			
Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	100	Homogeneous Off-White Drywall	None Detected		Cellulose fiber	5%	Binder/Filler

The reliable limit of quantitation of the method is 1%, although asbestos may be qualitatively detected at concentrations less than 1%. Samples which asbestos is detected at <1% are reported as trace, "<1%". "None Detected" indicates that no asbestos fibers were observed.

Analyst(s) Name/Date: (b) (6) _____ 5/5/2008



ANALYTICAL RESULTS

Date: 05-May-08

CLIENT: OCCU-TEC INC.

Sample Type: Bulk

Work Order No.: A0804250

Date Received: 4/25/2008

Client Reference: 98059-ST.LOUIS FEDERAL CENTER BLDG. #105F

Report Date: 05-May-08

Method Reference: EPA-600/M4-82-020/EPA/600/R-93/116/NYELAP

Lab ID	Client Sample ID	Analyst	Date Sampled	Date Analyzed			
014A	DC-10-1	NG	04/23/2008	05/05/2008			
Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	100	Homogeneous White Joint Compound	None Detected		Cellulose fiber	2%	Binder/Filler Paint
015A	BBDMAS-11-1	NG	04/23/2008	05/05/2008			
Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	90	Homogeneous Brown Baseboard	None Detected		Non-Detected		Binder/Filler
(2)	6	Homogeneous Brown Mastic	None Detected		Cellulose fiber	1%	Binder/Filler
(3)	4	Homogeneous White Joint Compound	None Detected		Non-Detected		Binder/Filler
016A	DB-12-1	NG	04/23/2008	05/05/2008			
Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	100	Homogeneous Off-White Debris	Chrysotile	5%	Cellulose fiber	3%	Binder/Filler
			Amosite	20%			
			Total	25%			
017A	DB-12-2	NG	04/23/2008	05/05/2008			
Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	100	Homogeneous Off-White Debris	Chrysotile	5%	Cellulose fiber	3%	Binder/Filler
			Amosite	20%			
			Total	25%			
018A	DB-12-3	NG	04/23/2008	05/05/2008			
Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	100	Homogeneous Tan Debris	None Detected		Non-Detected		Binder/Filler
019A	DB-12-4	NG	04/23/2008	05/05/2008			
Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	100	Homogeneous Off-White Debris	Chrysotile	< 1%	Cellulose fiber	5%	Binder/Filler
			Amosite	3%			
			Total	3%			

The reliable limit of quantitation of the method is 1%, although asbestos may be qualitatively detected at concentrations less than 1%. Samples which asbestos is detected at <1% are reported as trace, "<1%". "None Detected" indicates that no asbestos fibers were observed.

Analyst(s) Name/Date: (b) (6) _____ 5/5/2008



ANALYTICAL RESULTS

Date: 05-May-08

CLIENT: OCCU-TEC INC.

Sample Type: Bulk

Work Order No.: A0804250

Date Received: 4/25/2008

Client Reference: 98059-ST.LOUIS FEDERAL CENTER BLDG. #105F

Report Date: 05-May-08

Method Reference: EPA-600/M4-82-020/EPA/600/R-93/116/NYELAP

Microscope Documentation

Instrument	Manufacturer	Model	Description
PLM 2	Olympus	BX-51	AS-OL-3C PLM Microscope

The reliable limit of quantitation of the method is 1%, although asbestos may be qualitatively detected at concentrations less than 1%. Samples which asbestos is detected at <1% are reported as trace, "<1%". "None Detected" indicates that no asbestos fibers were observed.

Analyst(s) Name/Date:

(b) (6)

5/5/2008



Bureau Veritas North America, Inc.
REQUEST FOR LABORATORY ANALYTICAL SERVICES

IMPORTANT
 Date Results Requested: 5-1-08
 Rush Charges Authorized? Yes No
 Fax or E-mail Results
 E-mail address: jayhurst@occurate.com

Page of
 For Bureau Veritas Use Only
 Bureau Veritas Lab Project No.
 A0804250

Client Job No. 93059
 Name Jay Hurst
 Company Occu-Tec
 Mailing Address 6501 E Commerce Suite 230
 City, State, Zip Kansas City, MO 64120
 Telephone No. 816-231-5580 FAX No. 816-231-5641
 Dept. Loss Ctrl.

Special instructions and/or specific regulatory requirements:
 St Louis Federal Center -
 Bldg # 105F

ANALYSIS REQUESTED
 (Enter an 'X' in the box below to indicate request. Enter a 'P' if Preservative added.)

CLIENT SAMPLE IDENTIFICATION	DATE SAMPLED	TIME SAMPLED	MATRIX/MEDIA	AIR VOLUME (specify units)	FOR LAB USE ONLY
BDMAS-1-1 Baseline dry mastic	4-23		Bulk		
WP-2-1 Wallpaper					
DW-3-1 Drywall					
-2 "					
-3 "					
DC-4-1 Drywall joint comp					
-2 "					
-3 "					
CT-5-1 Ceiling Tile					
CT-6-1 Ceiling Tile					

Number of Containers

Waters:
 Drinking Water
 Groundwater
 Wastewater

Soils:
 Which state are these from?

Soils: *Adopted DTM*

Collector's Signature: [Redacted]
 Received by: [Redacted] Date/Time 4-24-08
 Received by: [Redacted] Date/Time [Redacted]
 Received at Lab by: [Redacted] Date/Time [Redacted]

Sample Condition Upon Receipt: Acceptable Other (explain)

Authorized by: [Redacted] Date 4-24-08

SEND INVOICE TO

FOR RETURNED SAMPLES TO

CHAIN OF CUSTODY

Collected by: Jay Hurst
 Relinquished by: [Redacted]
 Relinquished by: [Redacted]
 Method of Shipment: Fed Ex

Authorized by: [Redacted] Date 4-24-08

Please return completed form and samples to one of the Bureau Veritas North America, Inc. labs listed below:

Detroit Lab
 22345 Rocheford Drive
 Novi, MI 48375
 (800) 806-5887
 (248) 344-1770
 FAX (248) 344-2655

Atlanta Lab
 3380 Chastain Meadows Parkway, Suite 300
 Kennesaw, GA 30144
 (800) 252-9919
 (770) 499-7500
 FAX (770) 469-7511

DISTRIBUTION:
 White = Bureau Veritas Laboratory
 Yellow = Bureau Veritas Accounting
 Pink = Client Copy

3/07 10K



Bureau Veritas North America, Inc.

REQUEST FOR LABORATORY ANALYTICAL SERVICES

IMPORTANT

Date Results Requested: 5-1-08
Rush Charges Authorized? [] Yes [X] No
Fax or E-mail Results [] Fax or [X] E-mail Results
E-mail address: jayhurst@occ.state.mo.gov

Page 1 of 1
For Bureau Veritas Use Only
Bureau Veritas Lab Project No.

Client Job No. 98059
Dept.
Name Dave Hartshorn
Company GSA
Address 1500 E. Bonisteel, Room 2101
City, State, Zip Kansas City, MO 64113

Special instructions and/or specific regulatory requirements:
St Louis Federal Center - Bldg # 105F

Soils: Which state are these from?
Waters: [] Drinking Water [] Groundwater [] Wastewater

Table with columns: CLIENT SAMPLE IDENTIFICATION, DATE SAMPLED, TIME SAMPLED, MATRIX/MEDIA, AIR VOLUME, Explanation of Preservative. Rows include CT-7-1 Ceiling Tile, FM-8-1 Floor Mastic, DW-9-1 Drywall, DC-10-1 Drywall joint comp, BBD-MAS-11-1 Baseboard mastic, DB-12-1 Crawlspace Debris.

CHAIN OF CUSTODY
Collected by: JAF Smith
Relinquished by: [Redacted]
Relinquished by: [Redacted]
Method of Shipment: Fed Ex
Authorized by: [Redacted]

Number of Containers
ANALYSIS REQUESTED
FOR LAB USE ONLY

Collector's Signature: [Redacted]
Received by: [Redacted]
Received by: [Redacted]
Received at Lab by: [Redacted]
Sample Condition Upon Receipt: [] Acceptable [] Other (explain)

Please return completed form and samples to one of the Bureau Veritas North America, Inc. labs listed below:
Atlanta Lab
3380 Chastain Meadows Parkway, Suite 300
Kennesaw, GA 30144
(800) 252-9919
(770) 498-7500
FAX (770) 499-7511
Detroit Lab
22345 Roethel Drive
Novi, MI 48375
(800) 806-6887
(248) 344-1770
FAX (248) 344-2655
DISTRIBUTION:
White = Bureau Veritas Laboratory
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Pink = Client Copy

Appendix D

**XRF Lead-Based Paint Summary
Report**

XRF Sample Sheet

Client: GSA
Project: St. Louis Federal Complex
Building: Bldg. 105F

Project Number: 98059
Date: 4/23/08
Page 1 of 1

Sample Number	Floor	Room	Location	Component	Color	Substrate	Condition (I, F, P)	Reading mg/cm2
1			Calibration					1.00
2			Calibration					1.00
3			Calibration					0.90
4	1	Dining	West	Wall	Grey	Drywall	I	0.00
5	1	Dining	West	Base	Brick	Ceramic	I	0.00
6	1	Dining	West	Window Sill	Silver	Metal	I	0.00
7	1	Dining	West	Window Frame	Silver	Metal	I	0.00
8	1	Dining	West	Floor	Brick	Ceramic	I	0.00
9	1	Serving Area	South	Door	Blue	Metal	I	0.00
10	1	Serving Area	South	Door Frame	Grey	Metal	I	0.00
11	1	Serving Area	South	Wall	Grey	Drywall	I	0.00
12	1	S. Stairwell	North	Wall	Yellow	Brick	I	8.10
13	1	S. Stairwell	East	Wall	Yellow	Brick	I	9.90
14	1	S. Stairwell	South	Wall	Yellow	Brick	I	6.40
15	1	S. Stairwell	West	Wall	Yellow	Brick	I	6.70
16	1	S. Stairwell	North	Heater	Beige	Metal	I	0.00
17	1	S. Stairwell	North	Floor	Black	Concrete	I	0.00
18	1	S. Stairwell	West	Stair Tread	Red	Vinyl	I	0.00
19	1	S. Stairwell	West	Stair Riser	Black	Metal	I	2.60
20	1	S. Stairwell	West	Stair Stringer	Black	Metal	I	3.40
21	1	S. Stairwell	South	Stair Ceiling	Yellow	Metal	I	2.10
22	1	S. Stairwell	West	Stair Rail	Black	Metal	I	0.00
23	1	S. Stairwell	East	Door	Grey	Metal	I	0.00
24	1	S. Stairwell	East	Door Frame	Black	Metal	I	0.00
25	1	S. Stairwell	West	I - Beam	Yellow	Metal	I	6.50
26	1	Kitchen	North	Wall	Beige	Ceramic	I	0.00
27	1	Kitchen	South	Wall	Beige	Ceramic	I	0.00
28	1	Kitchen	South	Floor	Brick	Ceramic	I	0.00
29	1	Kitchen	East	Upper Wall	Beige	Cinder Blk	I	0.00
30	1	Kitchen	South	Door	Grey	Metal	I	0.00
31	1	Kitchen	South	Door	Red	Metal	I	0.00
32	1	Kitchen	South	Door Frame	Grey	Metal	I	0.00
33	1	Kitchen	South	Elevator Door	Grey	Metal	I	1.00
34	1	Kitchen	South	Elev Door Frame	Grey	Metal	I	1.30
35	1	Storage	North	Wall	Grey	Brick	I	0.00
36	1	Storage	West	Wall	Grey	Brick	I	0.00

Color Key			Component Key			Substrate Key	
B - Beige	GY - Grey	R - Red	D - Door, DF - Door Frame, DJ - Door Jamb	SB - Stair Baseboard, SR - Stair Riser, R - Railing	BK - Brick	P - Plaster	
BK - Black	M - Mint	S - Stained	W - Wall, C - Ceiling, BB - Baseboard	ST - Stair Tread, RC - Railing Cap, B - Balusters	C - Concrete	PC - Plastic	
BL - Blue	O - Orange	T - Tan	WS - Window Sill, WA - Window Apron,	NP - Newel Post, CLM - Column, CM - Crown Moulding	DW - Drywall	V - Vinyl	
BW - Brown	PK - Pink	W - White	WW - Window Well, WSH - Window Sash	S - Shelf, SS - Shelf Support, F - Floor, DW - Drawer	DWT - Drywall w/ Texture	W - Wood	
C - Cream	PR - Purple	Y - Yellow	WM - Window Mullian, WF - Window Frame	CB - Cabinet, CI - Cabinet Interior, CNT - Counter	G - Glass	WC - Wall Covering	
G - Green	P - Papered	Lt - Light	WSC - Window Screen, WJ, Window Jamb	P - Pipe, VC - Vent Cover, CT - Ceiling Tile	M - Metal		

CC - Calibration Check
F:\SHARE\FORMS\Operations\XRFsampleLog.xls

XRF Sample Sheet

Client: GSA
Project: St. Louis Federal Complex
Building: Bldg. 105F

Project Number: 98059
Date: 4/23/08
Page 1 of 1

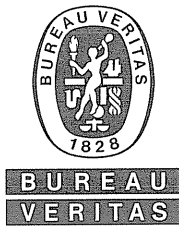
Sample Number	Floor	Room	Location	Component	Color	Substrate	Condition (I, F, P)	Reading mg/cm2
37	1	Storage	West	Floor	Grey	Concrete	P	0.00
38	1	Storage	South	Wall	Grey	Drywall	I	0.00
39	1	Storage	South	Door	Blue	Metal	I	0.00
40	1	Storage	South	Door Frame	Grey	Metal	I	0.00
41	1	Storage	South	Ceiling	White	Metal	I	0.30
42	1	Storage	West	Ceiling Angle Iron	White	Metal	I	0.00
43	1	Loading Dock	South	Wall	White	Drywall	I	0.00
44	1	Loading Dock	North	Elev. Door	Brown	Metal	I	1.00
45	1	Loading Dock	North	Elev. Door Frame	Brown	Metal	I	7.30
46	1	Loading Dock	South	Floor	Grey	Concrete	P	0.00
47	1	Kitchen	South	Ceiling I - Beam	Rust	Metal	I	3.60
48	1	Kitchen	South	Pan Ceiling	Grey	Metal	I	1.00
49	1	Kitchen	South	Angle Iron	Red	Metal	I	0.00
50	1	Kitchen	North	Ceiling	White	Concrete	I	0.00
51	Bsmt	Crawl Space	East	Door	Grey	Metal	I	0.00
52	Bsmt	Crawl Space	East	Door Frame	Grey	Metal	P	9.90
53	Bsmt	Crawl Space	East	Door Jamb	Black	Metal	I	0.00
54			Calibration					1.00
55			Calibration					0.90
56			Calibration					0.90
57								
58								
59								
60								
61								
62								
63								
64								
65								
66								
67								
68								
69								
70								
71								
72								

Color Key			Componant Key			Substrate Key	
B - Beige	GY - Grey	R - Red	D - Door, DF - Door Frame, DJ - Door Jamb	SB - Stair Baseboard, SR - Stair Riser, R - Railing	BK - Brick	P - Plaster	
BK - Black	M - Mint	S - Stained	W - Wall, C - Ceiling, BB - Baseboard	ST - Stair Tread, RC - Railing Cap, B - Balusters	C - Concrete	PC - Plastic	
BL - Blue	O - Orange	T - Tan	WS - Window Sill, WA - Window Apron,	NP - Newel Post, CLM - Column, CM - Crown Moulding	DW - Drywall	V - Vinyl	
BW - Brown	PK - Pink	W - White	WW - Window Well, WSH - Window Sash	S - Shelf, SS - Shelf Support, F - Floor, DW - Drawer	DWT - Drywall w/ Texture		
C - Cream	PR - Purple	Y - Yellow	WM - Window Mullian, WF - Window Frame	CB - Cabinet, CI - Cabinet Interior, CNT - Counter	G - Glass	W - Wood	
G - Green	P - Papered	Lt - Light	WSC - Window Screen, WJ, Window Jamb	P - Pipe, VC - Vent Cover, CT - Ceiling Tile	M - Metal	WC - Wall Covering	

CC - Calibration Check
F:\SHARE\FORMS\Operations\XRFsampleLog.xls

Appendix E

**Microorganism Analytical Results
and Chain of Custody**



May 01, 2008

Jay Hurst
OCCU-TEC
6501 E. Commerce, Suite 230
Kansas City, MO 64120

Bureau Veritas Work Order No. 08040091

Reference: GS-07F-6029R/98059/St Louis Fed Center-Bldg #105F

Dear Jay Hurst:

Bureau Veritas North America, Inc. received 4 samples on 4/28/2008 for the analyses presented in the following report.

Enclosed is a copy of the Chain-of-Custody record acknowledging receipt of these samples. Please note that any unused portion of the samples will be discarded 30 days after the date of this report, unless you have requested otherwise.

This material is confidential and is intended solely for the person to whom it is addressed. If this is received in error, please contact the number provided below.

We appreciate the opportunity to assist you. If you have any questions concerning this report, please contact a Client Services Representative at (800) 806-5887.

Sincerely,

(b) (6)

John Neville, Ph.D.
Senior Mycologist, Technical Director
cc:



CASE NARRATIVE

Date: *01-May-08*

Client: GENERAL SERVICE ADMINISTRATION
Project: GS-07F-6029R/98059/St Louis Fed Center-Bldg #105F
Work Order No 08040091

Samples were analyzed according to either the standardized method or the Bureau Veritas STP cited in the 'Analysis' section of the report.

Reporting limits are equivalent to 1 fungal structure or colony forming unit (CFU) calculated to the final sample concentration in the units that are reported.



BUREAU
VERITAS

ANALYTICAL RESULTS

Date: 01-May-08

Client: GENERAL SERVICE ADMINISTRATION

ProjectID: GS-07F-6029R/98059/St Louis Fed

Work Order No.: 08040091

Date Sampled: 04/23/2008

Date Analyzed: 05/01/2008

Date Received: 04/28/2008

Analyzed By: JAW

Analysis: Direct Microscopic Assessment of Samples (Qualitative)

massive: covers entire viewing area with more than 2 layers of fungal material

numerous: covers entire viewing area with 1 layer of fungal material

many: covers 25 to < 100% of viewing area with fungal material

few: covers 1 to < 25% of viewing area with fungal material

trace: covers < 1% of viewing area with fungal material

Type: Tape Lift

Lab ID	Client Sample ID	Identification
001A	T-01	<p>A trace of smut spores.</p> <p>A trace of Nigrospora spores.</p> <p>A trace of unidentifiable fungus #1 spores.</p> <p>A trace of unidentifiable hyphae.</p> <p>A trace of Epicoccum spores.</p> <p>A trace of Cladosporium spores.</p> <p>A trace of Pithomyces spores.</p> <p>A trace of Aspergillus/Penicillium-like spores.</p> <p>A trace of Alternaria spores.</p> <p>Mostly fibrous/particulate material, but no obvious sign of fungal growth or reservoir observed.</p>

Sample Location: DINING AREA-CEILING DIFFUSER

002A	T-02	<p>Few unidentifiable hyphae suggesting fungal growth.</p> <p>Few Cladosporium spores, hyphae, and conidiophores suggesting fungal growth.</p>
------	------	--

Sample Location: DINING AREA-TOP OF CEILING TILE

003A	T-03	<p>Many Cladosporium spores, hyphae, and conidiophores suggesting fungal growth.</p> <p>A trace of Alternaria spores.</p>
------	------	---

Sample Location: SERVING LINE INSIDE DUCT



**BUREAU
VERITAS**

ANALYTICAL RESULTS

Date: 01-May-08

Client: GENERAL SERVICE ADMINISTRATION

ProjectID: GS-07F-6029R/98059/St Louis Fed

Work Order No.: 08040091

Date Sampled: 04/23/2008

Date Analyzed: 05/01/2008

Date Received: 04/28/2008

Analyzed By: JAW

Analysis: Direct Microscopic Assessment of Samples (Qualitative)

massive: covers entire viewing area with more than 2 layers of fungal material

numerous: covers entire viewing area with 1 layer of fungal material

many: covers 25 to < 100% of viewing area with fungal material

few: covers 1 to < 25% of viewing area with fungal material

trace: covers < 1% of viewing area with fungal material

Type: Tape Lift

Lab ID	Client Sample ID	Identification
004A	T-04	Many Stachybotrys spores, hyphae, and conidiophores suggesting fungal growth. Many Cladosporium spores, hyphae, and conidiophores suggesting fungal growth. Few Alternaria spores, hyphae, and conidiophores suggesting fungal growth. A trace of Chaetomium spores.

Sample Location: STORAGE ROOM-SW CORNER DRYWALL



Bureau Veritas North America, Inc.

REQUEST FOR LABORATORY ANALYTICAL SERVICES

BUREAU VERITAS

Name: Jay Hurst, Client Job No. 98059, Company: Orca-1cc, Dept.:

Mailing Address: 6501 E Commerce, Suite 230, City, State, Zip: Kansas City, MO 64120, Telephone No. 816-231-5580, FAX No. 816-231-5641

Special instructions and/or specific regulatory requirements: St Louis Federal Center - Bldg # 105F

Soils: Which state are these from? Waters: Drinking Water, Groundwater, Wastewater

Table with columns: CLIENT SAMPLE IDENTIFICATION, DATE SAMPLED, TIME SAMPLED, MATRIX/MEDIA, AIR VOLUME (specify units), Number of Containers

CHAIN OF CUSTODY section including Collector's Signature, Received by, Date, and Authorized by.

Please return completed form and samples to one of the Bureau Veritas North America, Inc. labs listed below: Detroit Lab, Atlanta Lab, etc.

IMPORTANT section: Date Results Requested: 5-1-08, Rush Charges Authorized? No, E-mail address: jayhurst@orca.com

Page of For Bureau Veritas Use Only: Bureau Veritas Lab Project No. 7108040091

Purchase Order No., Name: Dave Hartshorn, Company: GSA, Address: 1500 E. Barnister, Room 1-101, City, State, Zip: Kansas City, MO 64131

ANALYSIS REQUESTED section with grid for sample analysis results.

FOR LAB USE ONLY section.

Number of Containers section.

Collector's Signature section.

Received by, Date, and Sample Condition section.

DISTRIBUTION: White = Bureau Veritas Laboratory, Yellow = Bureau Veritas Accounting, Pink = Client Copy

