Asbestos Debris Clean-up Building 107 Crawlspace Project Completion Documentation

Building 107 4300 Goodfellow Blvd. St. Louis, Missouri

Contract #: GX-06P-10-GX-A-0021/GS-P-06-12-GX-5076

Terracon Project No: 15127102

Prepared for:

General Services Administration
Heartland Region
Facilities Management Division
1500 East Bannister Rd (6PME)
Room 2101
Kansas City, Missouri 64131

Prepared by:

Terracon Consultants, Inc. Lenexa, Kansas

Date:

November 6, 2012

Offices Nationwide Employee-Owned Established in 1965 terracon.com



November 6, 2012



General Services Administration Heartland Region Facilities Management Division 1500 East Bannister Rd (6PME) Room 2101 Kansas City, Missouri 64131

Attn: Mr. Dave Hartshorn

P: 816-823-1704

E: dave.hartshorn@gsa.gov

Re: Asbestos Debris Clean-up Crawlspace

Building 107

4300 Goodfellow Blvd. St. Louis, Missouri

Terracon Project Number: 15117102

Dear Mr. Hartshorn:

Terracon Consultants, Inc. is pleased to provide project completion documentation regarding the removal of asbestos containing debris and soil performed at the above referenced site. The work was conducted in general accordance with contract GX-06P-10-GX-A-0021/GS-P-06-12-GX-5076.

We appreciate the opportunity to be of service to you on this project. If there are any questions concerning the report, or if we may be of further assistance, please contact Allen R. Bartels at 913.492.7777 or by e-mail at arbartels@terracon.com.

Sincerely,

TERRACON CONSULTANTS, INC.

Allen Bartels, MBA

Department Manager Asbestos Services

TABLE OF CONTENTS

SECTION 1 - TERRACON PROJECT OVERSIGHT LOGS

SECTION 2 - GEI CONTRACTOR CLOSEOUT PACKAGE

SECTION 1 TERRACON PROJECT OVERSIGHT LOGS

Project: GSA-Goodfellow Building 107 - Crawlspace

Project No.: 15127102

Terracon Rep.: Kevin Arnold / Eric Schatz

Project Capsule

The project consisted of removal of asbestos containing debris and loose soil within the crawl space. Loose soil was to be removed to "hard pan" throughout the crawl space. GEI elected to use an industrial mobile vacuum system for the gross removal of debris and contaminated soil. Large pieces of concrete, dirt clods and material too big for the vaccum system were double-bagged in 6-mil asbestos disposal bags for disposal. Occu-Tec (a GSA contract vendor) performed all project air sampling and PCM analysis. Final clearance air samples were analyzed by TEM by Bureau of Veritas, a GSA contract laboratory.

The crawl space was prepped by wrapping all duct work in two layers of 6-mil polyethylene sheeting and sealing holes, pipe and conduit penetrations. Holes and pipe penetrations were sealed with duct tape, spray foam, or 6-mil polyethylene sheeting. GEI constructed a work room adjacent to the entry door. The floor, walls, and ceiling of the work room was constructed of two layers of 6-mil polyethylene sheeting. The work room also contained a three-stage decontamination unit, and two-stage waste load-out. Five negative air machines were placed inside the crawlspace. The negative air machines were exhausted to the exterior of the building. Negative pressure was continuously monitored with a RAE negative pressure recorder provided by Occu-Tec.

GEI mobilized a trailer-mounted Vac-It-All industrial vacuum unit which was equipped with HEPA filters. The vacuumed debris was collected in 20-mil reinforced "bladder" bags placed in a roll-off dumpster. Asbestos contaminated debris that was double-bagged was placed in a box dumpster that was lined with two layers of 6-mil poly sheeting.

The crawl space was divided into nine work areas, demarcated by the support pillars, (see attached drawing). Removal activities consisted of a GEI crew vacuuming the loose soil and debris from the crawlspace floor. Vacuuming ceased when the "hard pan" was encountered. During periodic visual inspections of the work area several pieces of asbestos debris was embedded in the "hard pan." The embedded debris and adjoining soil was removed with a shovel or rake. The loosened soil was place in a 6-mil asbestos disposal bag, or the area was re-vacuumed. The asbestos waste was double-bag prior to removal from the work area and placed in a dumpster.

Several areas of a white powdery material remain throughout the soil crawl space floor. The material appears to be lime (during soil sampling the white powdery material was reported not to be asbestos containing), which is commonly added to improve the engineering properties of clay soils, including: plasticity; drying; swelling; stability; and load-bearing.

Page 2

<u>September 17, 2012</u>

 4:00 pm: Kevin Arnold arrives on site. An electrical sub-panel was installed earlier in the day to accommodate the additional project electrical load.

- Vicky Dunn with GEI has been on-site since approximately 4 pm. Pat Garcia with Occu-Tec starts background samples.
- 5:00 pm: Two roll-off dumpsters and one box dumpster are delivered by Allied Waste. GEI starts unloading equipment. The box dumpsters is lined with poly and affixed with warning labels.
- 6:00 pm: Prep work commences which will included: double-wall work room containment outside the crawl space access door, 3-stage decontamination chamber, 2-stage load-out chamber, critical barriers sealed-off, duct work wrapped in two layer of polyethylene sheeting, and five negative air machines.
- 11:30 pm: Negative air machines are turned on. GEI exits containment. Secured building and left site.

September 18, 2012

- 4:30 pm: Kevin Arnold and Eric Schatz arrive on site. The containment is inspected and Pat Garcia with Occu-Tec starts air samples.
- 4:45 pm: Vicky Dunn (GEI) arrives. Mr. Townsend (GSA) had contacted Vicky regarding mud/dirt on steps to basement. He expressed his concern that it was contaminated. Walked stairs with Vicky and Pat. Inside stairs were dusty; however the dust was not from this project. The inside stairs were not used by GEI the previous night. It rained Monday night and the exterior sidewalk panel was open during the work shift. Pictures were taken but no concern was identified.
- 5:00 pm: Vac-It-All delivers a vacuum unit. GEI lines the roll-off dumpster with poly and installs a 20 mil bladder bag.
- 5:30 pm: GEI dons PPE and resumes preparation work.
- 7:00 pm: Kevin Arnold and Eric Schatz enter containment to check progress. GEI continues preparation work.
- 7:30 pm: Kevin Arnold leaves the site.
- 10:30 pm: Eric Schatz enters containment to check progress. GEI estimates preparation work will be completed on September 19, 2012.
- 11:45 pm: Secured building and left site.

September 19, 2012

- 4:30 pm: Eric Schatz arrives on site. Occu-Tec has started air samples at approximately 4:00 pm.
- 4:45 pm: Vicky Dunn with GEI arrives onsite.
- 5:00 pm: Informed of another complaint regarding mud on the interior steps. Steps were HEPA vacuumed on 9/18/12. GEI will clean steps before the end of the shift. GEI dons PPE, enters containment and start removal.
- 7:00 pm: Interior steps cleaned and photographed.

Page 3

11:30 pm: GEI exits conatinment.

• 11:45 pm: Secured building and left site.

September 20, 2012

- 4:15 pm: Eric Schatz arrives on site. Eric Shatz enters containment to inspect the work area and determines that preparation work is not complete.
- 4:30 pm: Pat Garcia of Occu-Tec and Vicky Dunn of GEI onsite. Air samples started.
 Discuss remaining preparation work with Vicky Dunn.
- 5:00 pm: GEI dons PPE, enters containment to complete preparation work.
- 5:35 pm: Inspected containment and deemed preparation work complete. GEI starts removal.
- 7:30 pm: Vacuum hose clogs due to wet soil.
- 9:30 pm: Vacuum continues to clog and is shut down. GEI begins raking soil to expedite drying. Outside crew works on un-clogging vacuum.
- 10:50 pm: Vicky Dunn (GEI) offsite.
- 11:45 pm: Secured building and left site.

September 21, 2012

- 4:15 pm: Eric Schatz arrives on site. Pat Garcia (Occu-Tec) on site since 4:00 pm, air samples started.
- 4:45 pm: Vicky Dunn (GEI) arriveds on site.
- 5:00 pm: GEI dons PPE and enters containment to continue work.
- 6:15 pm: Eric Schatz and Vicky Dunn enter containment. Progress is checked in right corner of Area 1. Area 1 has been raked to hardpan but has not been vacuumed yet.
- 7:00 pm: GEI connects water lines at two points in vacuum hose. The addition of water helps alleviate clogging of the vacuum hose.
- 12:15 am: Secured building and left site.

<u>September 24, 2012</u>

- 4:30 pm: Kevin Arnold and Eric Shatz arrive on site. Vicky Dunn with GEI and Pat Garcia with Occu-Tec are also on site. Vicky Dunn reports that the first dumpster was picked up on Saturday, September 22, 2012.
- 5:00 pm: GEI lines second dumpster with poly and a bladder bag. Occu-Tec starts air samples.
- 6:00 pm: GEI dons PPE and enters containment to continue removal.
- 11:00 pm: Conduct inspection of Area 1 with Vicky Dunn of GEI. Identified several areas
 with debris embedded in the "hard pan." GEI will remove debris and adjoining soil with rake
 or shovel, and re-vacuum as needed.
- 11:30 pm: GEI exits work area.
- 12:00 am: Secured building and left site.

Page 4

September 25, 2012

- 4:30 pm: Kevin Arnold arrives on site with Vicky Dunn of GEI and Pat Garcia of Occu-Tec. Occu-Tec starts air samples.
- 5:00 pm: GEI dons PPE, and enters containment to start removal.
- 8:00 pm: Conduct visual inspection of Areas 1 & 2 with Vicky Dunn. Area 1 passed. Identified areas in Area 2 with debris embedded in the "hard pan". GEI will remove debris and adjoining soil with rake or shovel, and re-vacuum as needed.
- 11:30 pm: GEI exits work area.
- 12:00 am: Secured building and left site.

<u>September 26, 2012</u>

- 4:45 pm: Kevin Arnold arrives on site with Vicky Dunn of GEI and Pat Garcia of Occu-Tec. Occu-Tec starts air samples.
- 5:00 pm: GEI dons PPE, and enters containment starts removal.
- 11:15 pm: GEI exits work area. Dumpster is full and sealed up. Dumpster is scheduled to be picked up on September 27, 2012.
- 11:45 pm: Secured building and left site.

September 27, 2012

- 4:45 pm: Kevin Arnold arrives on site with Vicky Dunn of GEI and Pat Garcia of Occu-Tec.
 Occu-Tec starts air samples.
- 5:00 pm: GEI dons PPE, and enters containment and starts removal. Allied Waste drops-off an empty dumpster and collects the full dumpster. GEI lines the empty dumpster with poly and installs a bladder bag.
- 9:00 pm: Vacuum has broken down. Vac-It-All will send a technician tomorrow during the
 day to repair or replace the vacuum unit. Secure building and left the site. Since Pat Garcia
 of Occu-Tec has necessary credentials, she remains at the site to read PCM cassettes from
 September 26, 2012.

<u>September 28, 2012</u>

- 4:45 pm: Kevin Arnold arrives on site with Pat Garcia of Occu-Tec. Occu-Tec starts air samples.
- 5:00 pm: Vicky Dunn with GEI and crew arrive. GEI reports that Vac-It-All repaired the vacuum unit and it should work properly. GEI dons PPE, enters containment and starts removal.
- 11:00 pm: Conducted visual inspection of Areas 3 and 4. Identified areas with debris
 embedded in in the "hard pan." GEI will remove debris and adjoining soil with rake or shovel,
 and re-vacuum as needed.
- 11:30 pm: GEI exits containment. Building is secured and left site.

October 1, 2012

• 4:30 pm: Kevin Arnold on site with Vicky Dunn of GEI and Pat Garcia of Occu-Tec. Occu-Tec starts air samples.

Page 5

- 5:00 pm: GEI dons PPE, enters containment and starts removal.
- 11:00 pm: Entered work area to check on progress. Areas 5 and 6 are almost complete.
- 11:30 pm: GEI exits work area. Building is secured and left site.

October 2, 2012

- 4:30 pm: Kevin Arnold on site with Vicky Dunn of GEI and Pat Garcia of Occu-Tec. Occu-Tec starts air samples.
- 5:00 pm: GEI dons PPE, enters containment and starts removal.
- 11:00 pm: Vacuum clogs several times during the shift hindering progress. GEI exits work area.
- 11:30 pm: Secured building and left site.

October 3, 2012

- 4:30 pm: Kevin Arnold arrives on site with Vicky Dunn of GEI and Pat Garcia of Occu-Tec.
 Occu-Tec starts air samples. GEI was on site around 4:00 pm to accept delivery of a second vacuum unit.
- 5:00 pm: GEI dons PPE, enters containment and starts removal. GEI begins removal of the large pieces of concrete, dirt clods and rubble along the west wall. GEI seals up full dumpster.
- 5:30: Allied Waste arrives with third dumpster and removes the full dumpster. GEI lines the empty dumpster with poly and installs a bladder bag. Both vacuum units are connected to the bladder bag. GEI commences vacuuming around 6:30.
- 10:00: Conducted visual inspection of Areas 5, 6, and 7. Identified areas with debris
 embedded in in the "hard pan." GEI will remove debris and adjoining soil with rake or shovel,
 and re-vacuum as needed. Vacuuming in Area 7 has not been completed.
- 11:30 pm: GEI exits work area. Building is secured and left site

October 4, 2012

- 4:30 pm: Kevin Arnold arrives on site with Vicky Dunn of GEI and Pat Garcia of Occu-Tec.
 Occu-Tec starts air samples.
- 5:00 pm: GEI dons PPE, enters containment and starts removal.
- 11:30 pm: GEI exits work area. Secured building and left site.

October 5, 2012

- 4:30 pm: Kevin Arnold on site with Vicky Dunn of GEI and Pat Garcia of Occu-Tec. Occu-Tec starts air samples.
- 5:00 pm: GEI dons PPE, enters containment and starts removal.
- 9: 30 pm: Conducted visual inspection of Areas 7, 8 and 9. Identified areas with debris embedded in in the "hard pan." GEI will remove debris and adjoining soil with rake or shovel, and re-vacuum as needed. Additional loose dirt will be removed under the duct work and along the west wall in Area 9.
- 11:30 pm: GEI exits work area. Secured building and left site.

Page 6

October 8, 2012

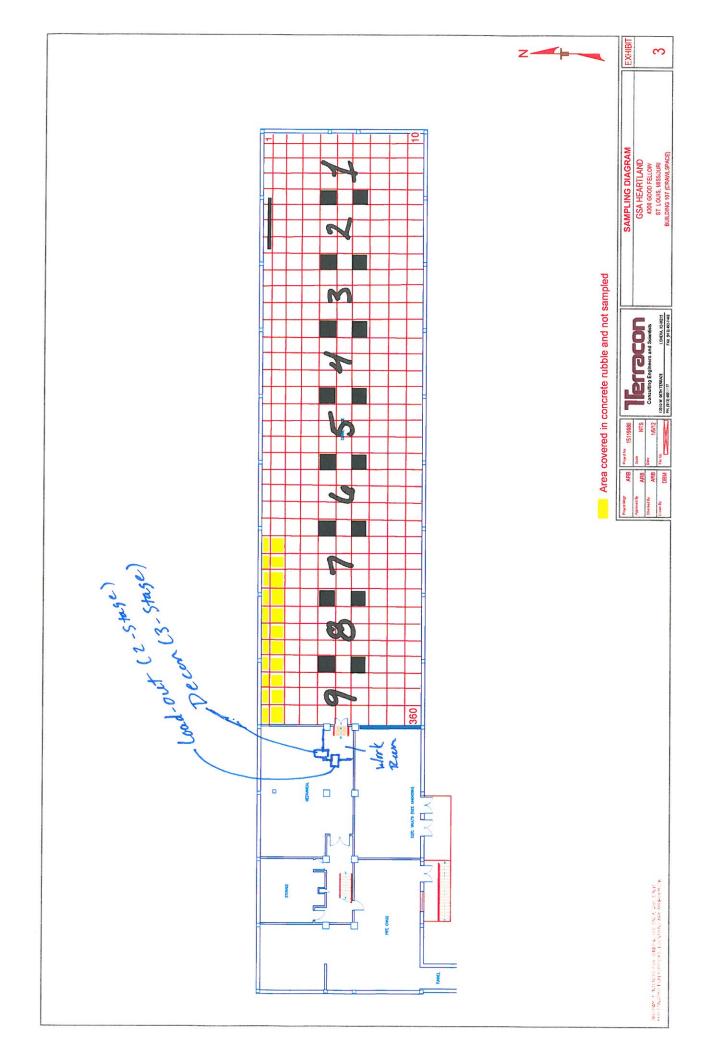
4:30 pm: Kevin Arnold arrives on site with Vicky Dunn of GEI and Pat Garcia of Occu-Tec.
 Occu-Tec starts air samples.

- 5:00 pm: GEI dons PPE, enters containment and starts final cleaning. Final cleaning will consists of wet wiping of piping, conduit and light fixtures, and HEPA vacuuming all beams, lattice floor joists, and concrete foundation ledges.
- 11:30 pm: Tomorrow is Columbus Day, a Federal Holiday, and the facility will be vacant. It
 was decided that we would work the day shift. GEI exits work area. Secured building and
 left site.

October 9, 2012

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- 7:00 am: Kevin Arnold arrives on site with Vicky Dunn of GEI and Pat Garcia of Occu-Tec. Occu-Tec starts air samples.
- 7:00 am: GEI dons PPE, enters containment and continues final cleaning. The vacuum units are disconnected and the bladder bags are sealed.
- 10:45 am: Vac-It-All collects both vacuum units.
- 1:30 pm: Final cleaning is complete and GEI commences spraying encapsulant. GEI starts loading all non-essential equipment and supplies, basement area outside of the containment is cleaned and floor is HEPA vacuumed.
- 4:30 pm: Encapsulation is complete. GEI exits work area. Building is secured and left site.
- Pat Garcia of Occu-Tec holds the necessary security credentials to be on site without Terracon. Occu-Tec will return on October 10, 2012 around 10 am to conduct final air clearance samples.



SECTION 2 GEI CONTRACTOR CLOSEOUT PACKAGE



TERRACON (OWNER'S REPRESENTATIVE)

CLOSEOUT PACKAGE

PROJECT:

FEDERAL CENTER - CRAWLSPACE (BUILDING 107)
4300 GOODFELLOW
ST. LOUIS, MO

TERRACON PROJECT NO. 15119080

ASB2122063

7225 St. Charles Rock Road Pagedale, MO 63133



MISSOURI DEPARTMENT OF NATURAL RESOURCES AIR POLLUTION CONTROL PROGRAM

ASBESTOS POST-NOTIFICATION

GENERAL INSTRUCTIONS

Persons who perform asbestos abatement projects are required to submit post-notification to the department within sixty (60) days of the completion date indicated on the initial notification. This post-notification shall include signed and dated receipt(s) of asbestos disposal as well as final air clearance results (if applicable). These documents, along with the completed post-notification form shall be mailed to the following address*:

> MISSOURI DEPARTMENT OF NATURAL RESOURCES AIR POLLUTION CONTROL PROGRAM (ASBESTOS) P.O. BOX 176 JEFFERSON CITY, MISSOURI 65102

*For projects under the jurisdiction of a local ag	gency, send post notification to t	the appropriate office.		
PART A. ASBESTOS PROJECT INFORMATION	· · · · · · · · · · · · · · · · · · ·			
PROJECT NAME	PROJECT ID ASSIGNED B	Y MDNR		
Federal Center - Building 107 Crawlspace	A5880-2012			
ADDRESS			· · · · · · · · · · · · · · · · · · ·	
4300 Goodfellow				
CITY		STATE	ZIP CODE	
St. Louis		MO	63120	
START DATE	COMPLETION DATE	•	<u>, , , , , , , , , , , , , , , , , , , </u>	
9/17/2012	10/12/2012			
PART B. CONTRACTOR INFORMATION		The second secon		
NAME OF CONTRACTOR		-	OR REGISTRATION NUMBER	
GEI		13-06-03	50	
CONTRACTOR CONTACT PERSON		TELEPHONE	NUMBER	
Vicki Dunn-Wolfe		636-928-	-2500	
PART C. WASTE DISPOSAL INFORMATION			- TOTO NO. LLEWARDS	
NAME OF LANDFILL				
Roxana Landfill Authority				
ADDRESS				
4600 Cahokia Creek				
CITY		STATE	ZIP CODE	
Roxana		IL.	62048	
NOTE: INCLUDE COPIES OF ALL WASTE SHIP	MENT RECORDS AND DISPOSA	L RECEIPTS		
PART D. AIR SAMPLING INFORMATION NAME OF AIR SAMPLING PROFESSIONAL		CEDTIFICAT	ION NUMBER	
Patricia Garcia		1	7031008MOAS11347	
Talliola Galoia		7001000	111071011017	
COMPANY NAME		TELEPHONE NUMBER		
OCCU-TEC		816-719-	816-719-6149	
			· · · · · · · · · · · · · · · · · · ·	
NOTE: INCLUDE COPIES OF FINAL AIR CLEAR	ANCE RESULTS (IF APPLICABL	E)		
PART E. AUTHENTICATION	C AND ENGLOSED IS TOUT AN			
I CERTIFY THAT THE INFORMATION LISTED ABOV	VE AND ENCLUSED IS TRUE AN	D ACCURATE.		
		1 101	15112	
0 100-1820 (0 04)				

ASB2122D63



ASBESTOS ABATEMENT CLOSE-OUT REPORT -Goodfellow - Building 107 St. Louis MO (MO0602AF)

Prepared for



GSA U.S. General Services Administration

Mr. David Hartshorn, Certified Industrial Avgienist

GSA Heartland Region Safety & Environmental Management Office 1500 East Bannister Road, Room 2101

Kansas City, Missouri 64131-3088

Project Number: 92114

October 23, 2012



TABLE OF CONTENTS

		Page
Intro	duction	2
Proje	ect Description	2
_	_	
pend	lices:	
A:	Accreditation Documentation	
B:	Daily Field Reports	
C:	Asbestos Air Monitoring Reports (PCM)	
D:	Asbestos Clearance Reports (TEM)	
E:	Laboratory Reports (TEM)	
	Proje Obse Air I Reco Pend A: B: C: D:	 B: Daily Field Reports C: Asbestos Air Monitoring Reports (PCM) D: Asbestos Clearance Reports (TEM)

1. INTRODUCTION

As authorized by GSA-Heartland, OCCU-TEC provided air monitoring and project oversight services for an asbestos abatement project in Goodfellow - Building 107 located at 4300 Goodfellow, in St. Louis, Missouri. This final report contains the OCCU-TEC representatives' air sampling data, laboratory results, and accreditation documentation. This report has been prepared to document completion of the project in accordance with the Task Order prepared for the project.

2. PROJECT DESCRIPTION

The abatement project at Goodfellow - Building 107 took place to prevent possible asbestos exposure to employees that work in and near the Basement Crawl Space. Global Environmental Inc. (GEI), of St. Louis, Missouri, a sub-contractor for Terracon of Lenexa, Kansas, performed the asbestos abatement activities in the building from September 17, 2012 through October 09, 2012. GEI abated the following asbestos-containing materials while OCCU-TEC was on-site:

Description	Location	Quantity Removed
Thermal Pipe Insulation	Basement - Crawl Space	700 Cubic Yards
Debris		(Compacted)

OCCU-TEC was on-site during the entire abatement process. Appendix A contains accreditation documentation for OCCU-TEC staff on-site during asbestos abatement activities.

3. OBSERVATIONS

Airborne fiber concentrations measured outside the work area by OCCU-TEC ranged from between < 0.002 fibers per cubic centimeter (f/cc) to 0.005 f/cc. All results were below the EPA-AHERA clearance level of 0.01 f/cc.

Following completion of abatement, OCCU-TEC conducted clearance air monitoring using aggressive sampling techniques and transmission electron microscopy (TEM). These procedures were performed to indicate successful completion of the abatement activities. Airborne fiber concentrations in the clearance samples were less than 70.0 asbestos structures/mm² by TEM. This indicated that the area were ready for re-occupancy. Visual inspections and clearance air monitoring indicated successful completion of the asbestos abatement actions. OCCU-TEC authorized the abatement contractor to remove the containment enclosures following analysis of clearance samples.

4. AIR MONITORING

ASBESTOS PCM AREA SAMPLING

PCM air samples were collected on 25 millimeter, 0.8-micron pore size mixed cellulose ester membrane filters. The filters were contained in three piece cassettes equipped with electrically conductive 50-mm cowls. Sample flow rates ranged from 1.25 to 4.39 liters per minute. This flow rate was selected to provide a low detection limit with minimal likelihood of overloading the filter.

PCM analyses were performed according to the analysis procedures specified in the National Institute of Occupational Safety and Health, Protocol 7400, Asbestos Fibers, using the "A" counting rules. This method does not permit discrimination between asbestos fibers and non-asbestos fibers. Asbestos air monitoring PCM reports are provided in Appendix C.

ASBESTOS TEM CLEARANCE SAMPLING

TEM clearance sampling took place following completion of the visual inspections and encapsulation of the work areas. All asbestos clearances were collected on 25 millimeter; 0.45-micron pore size mixed cellulose ester membrane filters. The filters were contained in three-piece cassettes equipped with electrically conductive 50-mm cowls. TEM analyses were performed by Bureau Veritas – North America (BV) in Kennesaw, Georgia for independent analysis according to the TEM counting procedures described under AHERA. BV analyzed the samples under the EPA NVLAP program and has a laboratory ID number of 101125-0. Clearance results were all below 70.0 asbestos structures/mm² detected, indicating successful completion of the asbestos abatement activity.

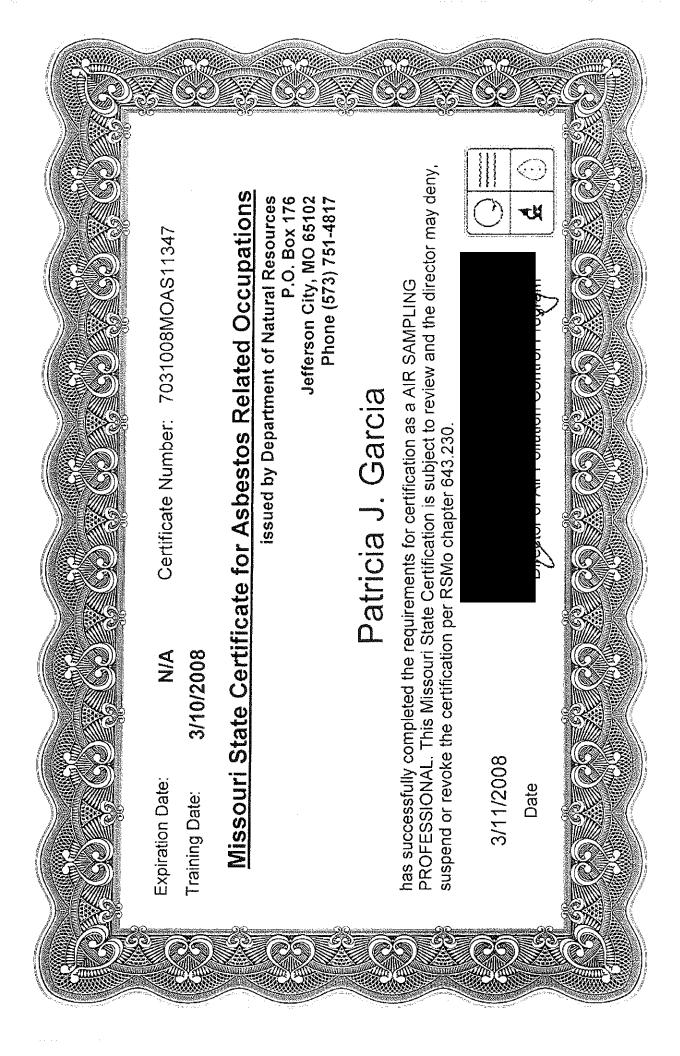
5. RECOMMENDATIONS

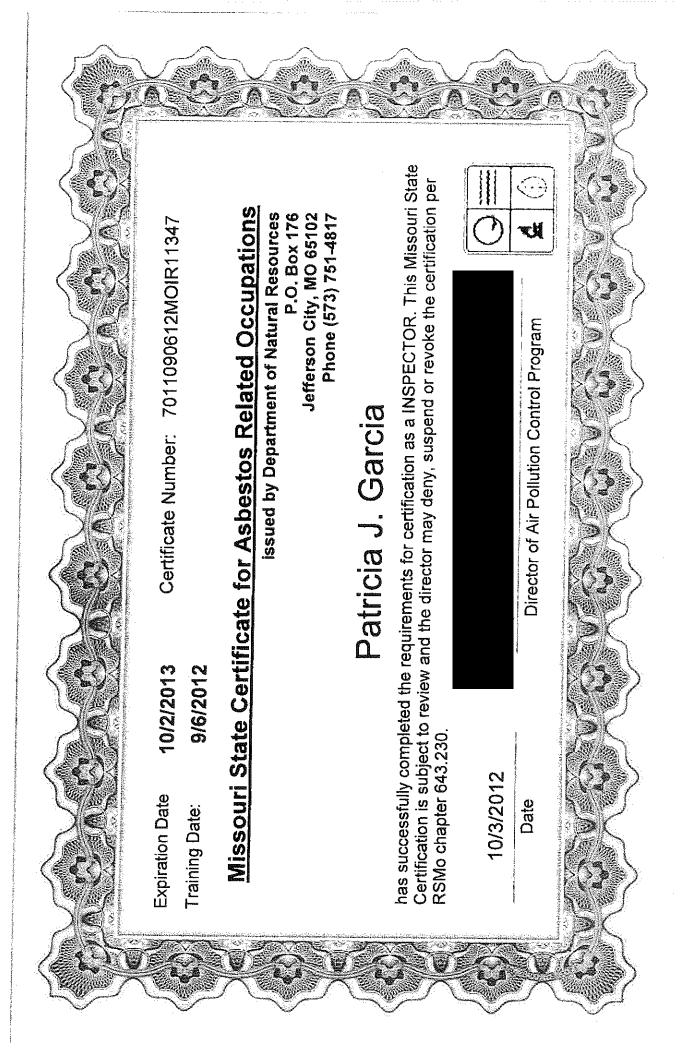
OCCU-TEC recommends that the building management undertake the following:

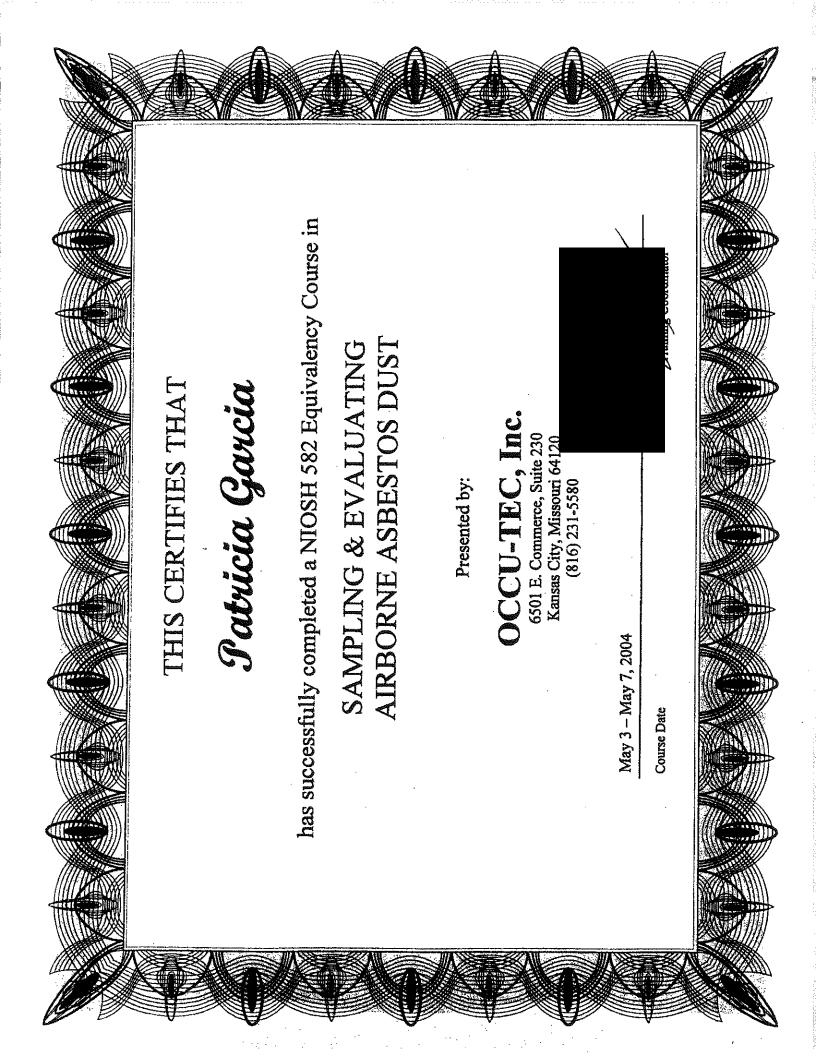
- 1. Update the building asbestos management program to include the completed abatement action.
- 2. Continued implementation of the building's asbestos management program.

Appendix A

Accreditation Documentation







Appendix B

Daily Field Reports



DAILY FIELD REPORT

CLIENT: GSA	PROJECT NAME: Goodfellow BLDG 107 3rd Party Air Monitoring Project Oversite
PROJECT NUMBER.: 92114	DATE: 09-17-12
CONTRACTOR: Global Environmental	
OCCU-TEC PERSONNEL: Patricia Garcia	
IN: 15:00	OUT: 23:45
CONTRACTOR SUPERVISOI Matt Lour/Vicki Dunn	NUMBER OF WORKERS: 5
IN: 16:00	OUT: 23:45
VISITORS ON SITE:	
OBSERVED WEATHER CONDITIONS: Temperature:68 Degrees	Conditions: Clear, CloudyX, Rain
TODAY'S ACTIVITIES: Prep. X, Removal, Cleanup _X_	, Encap, Enclosure, Demo, Teardown/Demob
Area of Activity: Basement GSA 107 Crawl Space	Quantity Removed: 0
Material Description:Off-Loading Equipment and Setting Up Deco	on, Shower, Neg Air Machines Quantity Remaining:
Area of Activity:	Quantity Removed:
Material Description:	Quantity Remaining:
Area of Activity:	Quantity Removed:
Material Description:	Quantity Remaining:
	, Non-Friable, Exterior, Other (Explain)
ENGINEERING CONTROLS: Full Containment, Critical Barriers	
NEGATIVE AIR SYSTEM: Yes _X, No, # of Units5_, M	Annometer on site Yes, Manometer Reading (if < 0.02")
DECONTAMINATION UNIT: Yes _X, No, # of Stages3_	Shower: Yes _X No
PROJECT SITE CHECKLIST PERSONAL PROTECTIVE	E EQUIPMENT RESPIRATORY PROTECTION
Emergency Info. Posted Disposable Suits	Half-Face Air Purifying Respirator
Fire Extinguishers On-Site Boots	Full-Face Air Purifying Respirator
GFCI's Used Gloves	Powered Air Purifying Respirator
OSHA Info.Posted Safety Glasses/ Goggles	Other:
Personal Sampling Conducted Hard Hat	
Entrance Warning Signs Posted Safety Vest	SIGNIFICANT EVENTS
Entry/Exit Logs Posted Hearing Protection	No Removal; Off-loading equipment; Setting-Up
Storage Bins Labeled Other:	equipment in Basement of BLDG 107. Building shower
Bags Labeled	and decon.
Floor and Walls Covered WORK PRACTICES	
Area Ventilation Off Wet Methods Used	
All Edges Sealed HEPA Vacuums Used	
Penetrations Sealed Waste Double-Bagged or B	sarreled
Entry Curtains Wastewater Filtered or Ban	
Critical Barriers Negative Air Pressure Achi	
Containment Smoke Tested Equipment Decontaminates	
Work Area Secured Other:	
AIR MONITORING PERFORMED BY OCCU-TEC INC. :	PCM, TEMX
Type	- A
- 	onal Samples0
-	rance Samples 0
VOVA OT DE LA PARISIO CONTI	



No. of Area Samples

SIGNATURE: Patricia Garcia

4151 N. Mulberry Drive, Suite 275 KANSAS CITY, MO 64116 PH: (816) 231-5580 **TOLL FREE: (800) 950-1953** FAX: (816) 231-5641

DAILY FIELD REPORT

(Please print information clearly) CLIENT: GSA PROJECT NAME: Goodfellow BLDG 107 3rd Party Air Monitoring Project Oversite PROJECT NUMBER.: 92114 DATE: 09-18-12 CONTRACTOR: Global Environmental OCCU-TEC PERSONNEL: Patricia Garcia IN: 16:00 OUT: 23:45 CONTRACTOR SUPERVISOI Matt Lour/Vicki Dunn NUMBER OF WORKERS: IN: 17:00 OUT: 23:45 VISITORS ON SITE: OBSERVED WEATHER CONDITIONS: Temperature: __70 Degrees Conditions: Clear __X__, Cloudy ___ TODAY'S ACTIVITIES: Prep. X___, Removal _X_, Cleanup _X_, Encap. ___, Enclosure ___, Demo. ___, Teardown/Demob. Wrapping Ducts Area of Activity:____Basement GSA 107 Crawl Space_ Quantity Removed: ___5 30gal bags_ Material Description: _Bags of Debris_ Quantity Remaining:___ Area of Activity: Quantity Removed: Material Description: Quantity Remaining: Area of Activity: Quantity Removed: Material Description: Quantity Remaining: WORK PROCEDURES: Gross Removal _X_, Glovebag ___, Friable _X_, Non-Friable ___, Exterior ___, Other (Explain) _Wrapping Duct Work__ , Drop Cloth _____, Barrier Tape __X_ ENGINEERING CONTROLS: Full Containment X , Critical Barriers X , Splash Guards Yes _X___, No NEGATIVE AIR SYSTEM: __ # of Units ___5_, Manometer on site ___Yes___, Manometer Reading (if < 0.02") _ DECONTAMINATION UNIT: Yes X No , # of Stages 3 Shower: Yes _X__, No_ PROJECT SITE CHECKLIST PERSONAL PROTECTIVE EQUIPMENT RESPIRATORY PROTECTION Emergency Info. Posted X Disposable Suits X Half-Face Air Purifying Respirator X Boots Fire Extinguishers On-Site Full-Face Air Purifying Respirator GFCI's Used X Gloves Powered Air Purifying Respirator OSHA Info.Posted ____Safety Glasses/ Goggles ____Hard Hat Personal Sampling Conducted Entrance Warning Signs Posted SIGNIFICANT EVENTS Safety Vest Entry/Exit Logs Posted 19:31 - -0.026 negative air pressure Hearing Protection X Storage Bins Labeled 20:00 - -0.027 negative air pressure Other: X Bags Labeled 20:40 - -0.027 negative air pressure Floor and Walls Covered WORK PRACTICES 21:00 - -0.028 negative air pressure Area Ventilation Off X Wet Methods Used 22:00 - -0.028 negative air pressure X All Edges Sealed X HEPA Vacuums Used 23:00 - -0.032 negative air pressure X Penetrations Sealed X Waste Double-Bagged or Barreled X Entry Curtains Wastewater Filtered or Barreled X Critical Barriers X Negative Air Pressure Achieved Containment Smoke Tested X Equipment Decontaminated X Work Area Secured AIR MONITORING PERFORMED BY OCCU-TEC INC. : PCM X_, TEM Type No. of Background Samples No. of Personal Samples

No. of Clearance Samples



DAILY FIELD REPORT

CLIENT: GSA		PROJECT NAME: Goodfellow BLDG 107 3rd Party Air Monitoring Project Oversite
PROJECT NUMBER.: 92114 DA		DATE: 09-19-12
CONTRACTOR: Global Environmental		
OCCU-TEC PERSONNEL: Patricia García		
IN: 16:00		OUT: 23:45
CONTRACTOR SUPERVISOI Matt Lour/Vic	cki Dunn	NUMBER OF WORKERS: 5
IN: 17:00		OUT: 23:45
VISITORS ON SITE:		
OBSERVED WEATHER CONDITIONS:	Temperature:70 Degrees	Conditions: Clear X_, Cloudy,
TODAY'S ACTIVITIES: Prep. X	, Removal X_, Cleanup X_	, Encap, Enclosure, Demo, Teardown/Demob. Wrapping Ducts
Area of Activity:Basement GSA 107 Cr	awl Space	Quantity Removed: 10 30gal bags
Material Description:Bags of De	ebris	Quantity Remaining:
Area of Activity:		Quantity Removed:
Material Description:		Quantity Remaining:
Area of Activity:		Quantity Removed:
Material Description:		Quantity Remaining:
WORK PROCEDURES: Gross Remova	l _X, Glovebag, Friable _X	, Non-Friable, Exterior, Other (Explain)Wrapping Duct Work
ENGINEERING CONTROLS: Full Containm	entX, Critical BarriersX	"Splash Guards, Drop Cloth, Barrier TapeX
NEGATIVE AIR SYSTEM: Yes _X	No,# of Units5_, Ma	anometer on siteYes, Manometer Reading (if < 0.02")
DECONTAMINATION UNIT: Yes _X,		
	PERSONAL PROTECTIVE	
PROJECT SITE CHECKLIST X		
Emergency Info. Posted	X Disposable Suits	X Half-Face Air Purifying Respirator
Fire Extinguishers On-Site	X Boots	Full-Face Air Purifying Respirator
GFCI's Used	X Gloves	Powered Air Purifying Respirator
OSHA Info.Posted X	Safety Glasses/ Goggles	Other
Personal Sampling Conducted X	Hard Hat	
Entrance Warning Signs Posted X	Safety Vest	SIGNIFICANT EVENTS
Entry/Exit Logs Posted	Hearing Protection	16:000.027 negative air pressure
X Storage Bins Labeled	Other:	17:510.027 negative air pressure
X Bags Labeled		18:400.034 negative air pressure
Floor and Walls Covered	WORK PRACTICES	19:110.037 negative air pressure
Area Ventilation Off	X Wet Methods Used	20:010.037 negative air pressure
X All Edges Sealed	X HEPA Vacuums Used	21:300.040 negative air pressure
X Penetrations Sealed	X Waste Double-Bagged or Ba	rreled 22:300.040 negative air pressure
X Entry Curtains	Wastewater Filtered or Barre	eled
X Critical Barriers	X Negative Air Pressure Achie	ved
Containment Smoke Tested	X Equipment Decontaminated	Whatever a second secon
X Work Area Secured	Other:	
IR MONITORING PERFORMED BY OCC	U-TEC INC. :	PCM _ X, TEM
Туре		
	No. of Persor	· <u>——</u>
No, of Area Samples 1	No. of Cleara	nce Samples 0
IGNATURE: Patricia Garcia		



DAILY FIELD REPORT

CLIENT: GSA	PROJECT NAME: Goodfellow BLDG 107 3rd Party Air Monitoring Project Oversite
PROJECT NUMBER.: 92114	DATE: 09-20-12
CONTRACTOR: Global Environmental	
OCCU-TEC PERSONNEL: Patricia Garcia	
IN: 16:00	OUT: 23:45
CONTRACTOR SUPERVISOI Matt Lour/Vicki Dunn	NUMBER OF WORKERS: 6
IN: 17:00	OUT: 23:45
VISITORS ON SITE:	
OBSERVED WEATHER CONDITIONS: Temperature:7	O Degrees Conditions: Clear X_, Cloudy,
TODAY'S ACTIVITIES: Prep. X, Removal _X,	CleanupX, Encap, Enclosure, Demo, Teardown/Demob.
Area of Activity:Basement GSA 107 Crawl Space	Quantity Removed: 45 cubic yards
Material Description:Debris	Quantity Remaining:
Area of Activity:	Quantity Removed:
Material Description:	Quantity Remaining:
Area of Activity:	Quantity Removed:
Material Description:	Quantity Remaining:
	_, Friable _X_, Non-Friable, Exterior, Other (Explain)
ENGINEERING CONTROLS: Full Containment X , Critica	al Barriers _ X, Splash Guards, Drop Cloth, Barrier Tape _ X
	nits5_, Manometer on siteYes, Manometer Reading (if < 0.02")
DECONTAMINATION UNIT: Ycs X_, No, # of S	
X	PROTECTIVE EQUIPMENT RESPIRATORY PROTECTION V. Ulifornia in Designation
Emergency Info. Posted X Disposable Sui	
Fire Extinguishers On-Site X Boots	Full-Face Air Purifying Respirator
GFCI's Used X Gloves	Powered Air Purifying Respirator
OSHA Info.Posted Safety Glasses/	/ Goggies Other:
Personal Sampling Conducted Hard Hat	
Entrance Warning Signs Posted Safety Vest	<u>SIGNIFICANT EVENTS</u>
Entry/Exit Logs Posted Hearing Protect	tion 16:000.037 negative air pressure
X Storage Bins Labeled Other:	18:030.038 negative air pressure
X Bags Labeled	19:030.050 negative air pressure
Floor and Walls Covered WORK PRA	CTICES 20:130.034 negative air pressure
Area Ventilation Off X Wet Methods	Used 21:520.037 negative air pressure
X All Edges Scaled X HEPA Vacuum	rns Used 23:130.038 negative air pressure
X Penetrations Sealed X Waste Double	e-Bagged or Barreled
X Entry Curtains X Wastewater F.	iltered or Barreled
X Critical Barriers X Negative Air	
Containment Smoke Tested X Equipment De	
X Work Area Secured Other:	
AIR MONITORING PERFORMED BY OCCU-TEC INC.:	PCM _X, TEM
Type	
No. of Background Samples 0	No. of Personal Samples 0
No. of Area Samples 10	· · · · · · · · · · · · · · · · · · ·
No. of Area Samples	No. of Clearance Samples 0



DAILY FIELD REPORT

CLIENT: GSA	PROJECT NAME: Goodfellow BLDG 107 3rd Party Air Monitoring Project Oversite
PROJECT NUMBER.: 92114	DATE: 09-21-12
CONTRACTOR: Global Environmental	
OCCU-TEC PERSONNEL: Patricia Garcia	
IN: 16:00	OUT: 01:00
CONTRACTOR SUPERVISOI Matt Lour/Vicki Dunn	NUMBER OF WORKERS: 4
IN: 17:00	OUT: 01:00
VISITORS ON SITE:	
OBSERVED WEATHER CONDITIONS: Temperature: _70 Degrees	Conditions: ClearX, Cloudy,
TODAY'S ACTIVITIES: PrepX, Removal _X, Cleanup _X	, Encap, Enclosure, Demo, Teardown/Demob.
Area of Activity:Basement GSA 107 Crawl Space	Quantity Removed: 70 cubic yards
Material Description: Debris	Quantity Remaining:
Area of Activity:	Quantity Removed:
Material Description:	Quantity Remaining:
Area of Activity:	Quantity Removed:
Material Description:	Quantity Remaining:
WORK PROCEDURES: Gross Removal _X_, Glovebag, Friable _	X_, Non-Friable, Exterior, Other (Explain)
ENGINEERING CONTROLS: Full ContainmentX Critical Barriers	XSplash Guards, Drop Cloth, Barrier TapeX
NEGATIVE AIR SYSTEM: Yes X_, No, # of Units _ 5_ N	Manometer on siteYes, Manometer Reading (if < 0.02")
DECONTAMINATION UNIT: Yes _X_, No,# of Stages_3_	Shower: Yes _XNo
PROJECT SITE CHECKLIST PERSONAL PROTECTIVE	
Emergency Info. Posted X Disposable Suits	X Half-Face Air Purifying Respirator
Fire Extinguishers On-Site X Boots	Full-Face Air Purifying Respirator
$\frac{\text{GFCI's Used}}{X} = \frac{X}{\text{Gloves}}$	Powered Air Purifying Respirator
OSHA Info.PostedSafety Glasses/ Goggles	Other:
Personal Sampling Conducted Hard Hat	
Entrance Warning Signs Posted Safety Vest	SIGNIFICANT EVENTS
Entry/Exit Logs PostedHearing Protection	16:000.037 negative air pressure
X Storage Bins Labeled Other:	18:030.038 negative air pressure
X_Bags Labeled	19:210.038 negative air pressure
Floor and Walls Covered WORK PRACTICES	20:530.035 negative air pressure
Area Ventilation Off X Wet Methods Used	22:000.040 negative air pressure
X All Edges Scaled X HEPA Vacuums Used	23:130.038 negative air pressure
X Penetrations Sealed X Waste Double-Bagged or B	Barreled
X Entry Curtains X Wastewater Filtered or Bar	reled
X Critical Barriers X Negative Air Pressure Achi	eved
Containment Smoke TestedX_Equipment Decontaminated	1
X Work Area Secured Other:	
JR MONITORING PERFORMED BY OCCU-TEC INC. :	PCMX TEM
Туре	
<u> </u>	onal Samples 0
No. of Area Samples 10 No. of Clea	rance Samples 0



DAILY FIELD REPORT

CLIENT: GSA		PROJECT NAME: Goodfellow BLDG 107 3rd Party Air Monitoring Project Oversite
PROJECT NUMBER.: 92114		DATE: 09-24-12
CONTRACTOR: Global Environmental		
OCCU-TEC PERSONNEL: Patricia Garcia		
IN: 16:00		OUT: 00:00
CONTRACTOR SUPERVISOI Matt Lour/Viel	ci Dunn	NUMBER OF WORKERS: 5
IN: 17:99		OUT: 00:80
VISITORS ON SITE:		
OBSERVED WEATHER CONDITIONS:	Temperature:70 Degrees	Conditions: Clear X_, Cloudy,
TODAY'S ACTIVITIES: PrepX,	Removal X_, Cleanup X	_, Encap, Enclosure, Demo, Teardown/Demob.
Area of Activity:Basement GSA 107 Cra	wł Space	Quantity Removed: 42 cubic yards
Material Description:Debris		Quantity Remaining:
Area of Activity:		Quantity Removed:
Material Description:	<u> </u>	Quantity Remaining:
Area of Activity:		Quantity Removed:
Material Description:		Quantity Remaining:
WORK PROCEDURES: Gross Removal		K Non-Friable, Exterior, Other (Explain)
ENGINEERING CONTROLS: Full Containme	ntX_, Critical BarriersX	,Splash Guards, Drop Cloth, Barrier TapeX
NEGATIVE AIR SYSTEM: Yes _X,}	No, # of Units5_, M	anometer on siteYes, Manometer Reading (if < 0.02")
DECONTAMINATION UNIT: Yes _X, N	No, # of Stages 3	Shower: YesX, No
PROJECT SITE CHECKLIST	PERSONAL PROTECTIVE	
X Emergency Info. Posted	X Disposable Suits	X Half-Face Air Purifying Respirator
X Fire Extinguishers On-Site	X Boots	Full-Face Air Purifying Respirator
X GFCI's Used	X Gloves	Powered Air Purifying Respirator
OSHA Info.Posted	Safety Glasses/ Goggles	Other:
	Hard Hat	
Personal Sampling Conducted X	Safety Vest	SIGNIFICANT EVENTS
Entrance Warning Signs Posted X	Hearing Protection	16:000.033 negative air pressure
Entry/Exit Logs Posted		18:170.032 negative air pressure
X Storage Bins Labeled	Other:	19:240.03£ negative air pressure
X Bags Labeled	WORK BDACTICES	* *
Floor and Walls Covered	WORK PRACTICES	20:040.032 negative air pressure
Area Ventilation Off	X Wet Methods Used	21:040.032 negative air pressure
X All Edges Scaled	X HEPA Vacuums Used	22:120.031 negative air pressure
X Penetrations Sealed	X Waste Double-Bagged or B	
X Entry Curtains	X Wastewater Filtered or Barr	
X Critical Barriers	X Negative Air Pressure Achie	
Containment Smoke Tested	X Equipment Decontaminated	* Add Add William Control
X Work Area Secured	Other:	
IR MONITORING PERFORMED BY OCCU-TEC INC.: PCM _X, TEM		
Type	, at an	
No. of Background Samples 0 No. of Area Samples 10	_	ance Samples 0



DAILY FIELD REPORT

OF IENT. CEA	(Please print inform	CT NAME: Goodfellow BLDG 107 3rd Party Air Monitoring Project Oversite
CLIENT: GSA		
PROJECT NUMBER: 92114	DATE:	U9-23-12
CONTRACTOR: Global Environmental OCCU-TEC PERSONNEL: Patricia Garcia		
	OVER 10	0.00
IN: 16:00 CONTRACTOR SUPERVISOI Matt Lour/Vicki	OUT: 0	D OF WORKERS.
VISITORS ON SITE:	OUT: 0	9:00
OBSERVED WEATHER CONDITIONS:	Temperature: 82 Degrees Con	ditions: Clear, Cloudy _X, Ruining
		, Enclosure, Demo, Teardown/Demob.
Area of Activity: Basement GSA 107 Craw		
Material Description: Debris		Quantity Remaining:
Area of Activity:		Quantity Removed:
Material Description:	,	Quantity Remaining:
Area of Activity:		Quantity Removed:
Material Description:		Quantity Remaining:
WORK PROCEDURES: Gross Removal	X_, Glovebag, Friable_X_, Non-I	Friable, Exterior, Other (Explain)
ENGINEERING CONTROLS: Full Containmen	ntX_, Critical Barriers _X,Splas	h Guards, Drop Cloth, Barrier TapeX
NEGATIVE AIR SYSTEM: Yes X_, N	o,# of Units5_, Manometer	on siteYes, Manometer Reading (if < 0.02")
DECONTAMINATION UNIT: Yes _X, N		Shower: YesX, No
PROJECT SITE CHECKLIST	PERSONAL PROTECTIVE EQUIPM	ENT RESPIRATORY PROTECTION
X Emergency Info. Posted	X Disposable Suits	X Half-Face Air Purifying Respirator
X Fire Extinguishers On-Site	X Boots	Full-Face Air Purifying Respirator
GFCI's Used	X Gloves	Powered Air Purifying Respirator
X OSHA Info.Posted	Safety Glasses/ Goggles	Other:
Personal Sampling Conducted	Hard Hat	-
X Entrance Warning Signs Posted	Safety Vest	SIGNIFICANT EVENTS
X Entry/Exit Logs Posted	Hearing Protection	16:000.029 negative air pressure
X Storage Bins Labeled	Other:	18:060.032 negative air pressure
X Bags Labeled		19:140.031 negative air pressure
Floor and Walls Covered	WORK PRACTICES	20:150.032 negative air pressure
Area Ventilation Off	X Wet Methods Used	21:000.031 negative air pressure
X All Edges Sealed	X HEPA Vacuums Used	22:370.011 negative air pressure
X Penetrations Scaled	X Waste Double-Bagged or Barreled	
X Entry Curtains	X Wastewater Filtered or Barreled	
X Critical Barriers	X Negative Air Pressure Achieved	
Containment Smoke Tested	X Equipment Decontaminated	
X Work Area Secured	Other:	
LIR MONITORING PERFORMED BY OCCU-	TEC INC.: PCM _2	X, TEM
Type		
No. of Background Samples0	•	
No. of Area Samples 10	No. of Clearance Samp	ples0

SIGNATURE: Patricia Garcia



DAILY FIELD REPORT

CLIENT: GSA		PROJECT NAME: Goodfellow BLDG 107 3rd Party Air Monitoring Project Oversite
PROJECT NUMBER.: 92114		DATE: 09-26-12
CONTRACTOR: Global Environmental		
OCCU-TEC PERSONNEL: Patricia Garcia		
IN: 16:00		OUT: 00:00
CONTRACTOR SUPERVISOI Matt Lour/Vic	ki Dunn	NUMBER OF WORKERS: 6
IN: 17:00		OUT: 90:00
VISITORS ON SITE:		
OBSERVED WEATHER CONDITIONS:	Temperature:82 Degrees	Conditions: Clear, Cloudy _X, Raining
TODAY'S ACTIVITIES: Prep. X	, Removal _X_, Cleanup _X	_, Encap, Enclosure, Demo, Teardown/Demob.
Area of Activity:Basement GSA 107 Cra	wł Space	Quantity Removed: 47 cubic yards
Material Description:Debris		Quantity Remaining:
Area of Activity:		Quantity Removed:
Material Description:		Quantity Remaining:
Area of Activity:		Quantity Removed:
Material Description:		Quantity Remaining:
WORK PROCEDURES: Gross Removal	X_, Glovebag, Friable _>	Non-Friable , Exterior , Other (Explain)
ENGINEERING CONTROLS: Full Containme	ent X, Critical Barriers X	, Splash Guards, Drop Cloth, Barrier TapeX
		anometer on siteYes, Manometer Reading (if < 0.02")
DECONTAMINATION UNIT: Yes _X, }	***************************************	
PROJECT SITE CHECKLIST X	PERSONAL PROTECTIVE	
Emergency Info. Posted X	X Disposable Suits	X Half-Face Air Purifying Respirator
Fire Extinguishers On-Site X	X Boots	Full-Face Air Purifying Respirator
GFCI's Used X	X Gloves	Powered Air Purifying Respirator
OSHA Info.Posted	Safety Glasses/ Goggles	Other:
Personal Sampling Conducted X	Hard Hat	
Entrance Warning Signs Posted	Safety Vest	SIGNIFICANT EVENTS
Entry/Exit Logs Posted	Hearing Protection	16:000.021 negative air pressure
X Storage Bins Labeled	Other:	17:560.022 negative air pressure
X Bags Labeled		19:340.011 negative air pressure
Floor and Walls Covered	WORK PRACTICES	20:130.022 negative air pressure
Area Ventilation Off	X Wet Methods Used	21:000.011 negative air pressure
X All Edges Sealed	X HEPA Vacuums Used	22:400.021 negative air pressure
X Penetrations Sealed	X Waste Double-Bagged or Ba	arreled
X Entry Curtains	X Wastewater Filtered or Barro	cied
X Critical Barriers	X Negative Air Pressure Achie	eved
Containment Smoke Tested	X Equipment Decontaminated	
X Work Area Secured	Other:	
AIR MONITORING PERFORMED BY OCCU	-TEC INC. :	PCM _X, TEM
Type		
No. of Background Samples	No. of Perso	nal Samples 0
No. of Area Samples	No. of Clean	ance Samples 0
IGNATURE: Patricia Garcia		



FAX: (816) 231-5641

DAILY FIELD REPORT

(Please print information clearly) PROJECT NAME: Goodfellow BLDG 107 3rd Party Air Monitoring Project Oversite CLIENT: GSA PROJECT NUMBER.: 92114 CONTRACTOR: Global Environmental OCCU-TEC PERSONNEL: Patricia Garcia IN: 16:00 OUT: 22:45 CONTRACTOR SUPERVISOI Matt Lour/Vicki Dunn NUMBER OF WORKERS: IN: 17:80 OUT: 21:00 VISITORS ON SITE: OBSERVED WEATHER CONDITIONS: Temperature: ___75 Degrees Conditions: Clear _ ___, Cloudy _X____, TODAY'S ACTIVITIES: Prep. X ____, Removal _X __, Cleanup _X __, Encap. ____, Enclosure _____, Demo. ____, Teardown/Demob. Quantity Removed: 0 cubic yards Area of Activity:__ Basement GSA 107 Crawl Space Material Description: Quantity Remaining:_ Quantity Removed:_ Area of Activity: Material Description: Quantity Remaining: Quantity Removed:__ Area of Activity: Material Description: Quantity Remaining: WORK PROCEDURES: _, Exterior ____, Other (Explain) Gross Removal X_, Glovebag __, Friable X_, Non-Friable _ ENGINEERING CONTROLS: Full Containment ___X__ Critical Barriers __X__, Splash Guards , Drop Cloth _, Barrier Tape __X NEGATIVE AIR SYSTEM: # of Units __5_ Manometer on site __Yes__, Manometer Reading (if < 0.02") Yes X , No Shower: Yes _X_, No DECONTAMINATION UNIT: Yes _X__, No , # of Stages___3_ RESPIRATORY PROTECTION PERSONAL PROTECTIVE EQUIPMENT PROJECT SITE CHECKLIST X_Disposable Suits X Half-Face Air Purifying Respirator Emergency Info. Posted Full-Face Air Purifying Respirator Fire Extinguishers On-Site X Boots GFCI's Used Powered Air Purifying Respirator X Gloves Other: OSHA Info.Posted Safety Glasses/ Goggles Personal Sampling Conducted _Hard Hat SIGNIFICANT EVENTS Entrance Warning Signs Posted Safety Vest Entry/Exit Logs Posted Hearing Protection 16:50 - -0.024 negative air pressure X Storage Bins Labeled 18:00- -0.020 negative air pressure Other: 20:00 - -0.022 negative air pressure X Bags Labeled 20:15 - -0.020 negative air pressure Floor and Walls Covered WORK PRACTICES Area Ventilation Off X_ Wet Methods Used X HEPA Vacuums Used Crew works to remove clogged clay dirt from vacuum X All Edges Scaled X Penetrations Sealed X Waste Double-Bagged or Barreled cyclone. It is binding the auger. X Wastewater Filtered or Barreled No removal from crawl space today. X Entry Curtains X Critical Barriers X Negative Air Pressure Achieved Containment Smoke Tested X Equipment Decontaminated X Work Area Secured Other: AIR MONITORING PERFORMED BY OCCU-TEC INC. :

SIGNATURE: ____Patricia Garcia_

No. of Background Samples

No. of Area Samples

No. of Personal Samples

No. of Clearance Samples

PCM _X__, TEM



DAILY FIELD REPORT

ROJECT NUMBER.: 92114 DNTRACTOR: Global Environmental CCU-TEC PERSONNEL: Patricia Garcia IN: 16:00 DNTRACTOR SUPERVISOI Matt Lour/Vicki Dunn IN: 17:00 SITORS ON SITE: SERVED WEATHER CONDITIONS: Temperature: _82 Degrees	OUT: 00:00 NUMBER OF WORKERS: 6 OUT: 00:00	
IN: 16:00 ONTRACTOR SUPERVISOI Matt Lour/Vicki Dunn IN: 17:00 SITORS ON SITE:	NUMBER OF WORKERS: 6	
IN: 16:00 DNTRACTOR SUPERVISOI Matt Lour/Vicki Dunn IN: 17:00 SITORS ON SITE:	NUMBER OF WORKERS: 6	
ONTRACTOR SUPERVISOI Matt Lour/Vicki Dunn IN: 17:00 SITORS ON SITE:	NUMBER OF WORKERS: 6	
IN: 17:00 SITORS ON SITE:	V	
IN: 17:00 SITORS ON SITE:	OUT: 00:00	
SERVED WEATHER CONDITIONS: Temperature: _82 Degrees		
	Conditions: Clear, Cloudy _X,	
DDAY'S ACTIVITIES: Prep. X, Removal _X, Cleanup _X	, Encap, Enclosure, Demo, Teardown/Demob.	
ea of Activity:Basement GSA 107 Crawl Space	Quantity Removed: 17 cubic yards	
Material Description: Debris	Quantity Remaining:	
ea of Activity:	Quantity Removed:	
Material Description:	Quantity Remaining:	
ea of Activity:	Quantity Removed:	
Material Description:	Quantity Remaining:	
	X, Non-Friable, Exterior, Other (Explain)	
GINEERING CONTROLS: Full Containment X_ Critical Barriers X		
GATIVE AIR SYSTEM: Yes _X_, No, # of Units _5_, M	fanometer on siteYes, Manometer Reading (if < 0.02")	
CONTAMINATION UNIT: Yes X No ,# of Stages 3		
PROJECT SITE CHECKLIST PERSONAL PROTECTIVE		
X Emergency Info. Posted X Disposable Suits	X Half-Face Air Purifying Respirator	
<u>x</u>	Full-Face Air Purifying Respirator	
X	Powered Air Purifying Respirator	
GFCI's Used X Gloves	_	
OSHA Info.PostedSafety Glasses/ Goggles	Other:	
Personal Sampling Conducted Hard Hat X	CICANTIC AND ENGINEE	
Entrance Warning Signs Posted Safety Vest	SIGNIFICANT EVENTS	
Entry/Exit Logs Posted Hearing Protection	16:000.024 negative air pressure	
X Storage Bins LabeledOther:	17:360.021 negative air pressure	
X Bags Labeled	19:070.021 negative air pressure	
Fioor and Walls Covered WORK PRACTICES	20:000.022 negative air pressure	
Area Ventilation Off X Wet Methods Used	21:300.011 negative air pressure	
X All Edges Scaled X HEPA Vacuums Used	22:450.021 negative air pressure	
X Penetrations Sealed X Waste Double-Bagged or B	arreled	
X Entry Curtains X Wastewater Filtered or Barr	eled	
X Critical Barriers X Negative Air Pressure Achie	eved	
Containment Smoke Tested X Equipment Decontaminated		
X Work Area Secured Other:		
MONITORING PERFORMED BY OCCU-TEC INC.:	PCMX, TEM	
<u>Түре</u>		
	onal Samples 0	
No. of Area Samples 9 No. of Clear	rance Samples 0	



DAILY FIELD REPORT

CLIENT: GSA		PROJECT NAME: Goodfellow BLDG 107 3rd Party Air Monitoring Project Oversite
PROJECT NUMBER.: 92114		DATE: t0-01-12
CONTRACTOR: Global Environmental		
OCCU-TEC PERSONNEL: Patricia Garcia		
IN: 16:30		OUT: 00:00
CONTRACTOR SUPERVISOI Matt Lour/Vick	i Duon	NUMBER OF WORKERS: 7
IN: 17:90		OUT: 80:00
VISITORS ON SITE:		
OBSERVED WEATHER CONDITIONS:	Temperature:76 Degrees	Conditions: Clear, Cloudy _X,
TODAY'S ACTIVITIES: PrepX,	Removal _X_, Cleanup _X_	, Encap, Enclosure, Demo, Teardown/Demob.
Area of Activity:Basement GSA 107 Crav	wł Space	Quantity Removed: 65 cubic yards
Material Description:Debris		Quantity Remaining:
Area of Activity:		Quantity Removed:
Material Description:		Quantity Remaining:
Area of Activity:		Quantity Removed:
Material Description:		Quantity Remaining:
	X , Glovebag , Friable >	(, Non-Friable, Exterior, Other (Explain)
		Splash Guards, Drop Cloth, Barrier TapeX
		anometer on siteYes, Manometer Reading (if < 0.02")
DECONTAMINATION UNIT: Yes _X_, N		Shower: Ves _XNo
X PROJECT SIFE CHECKLIST	PERSONAL PROTECTIVE	
Emergency Info. Posted X	X Disposable Suits	X Half-Face Air Purifying Respirator
Fire Extinguishers On-Site X	X Boots	Full-Face Air Purifying Respirator
GFCl's Used X	X Gloves	Powered Air Purifying Respirator
OSHA Info.Posted	Safety Glasses/ Goggles	Other:
Personal Sampling Conducted X	Hard Hat	
Entrance Warning Signs Posted	Safety Vest	SIGNIFICANT EVENTS
Entry/Exit Logs Posted	Hearing Protection	17:000.011 negative air pressure
X Storage Bins Labeled	Other:	17:300.036 negative air pressure
X Bags Labeled		19:270.036 negative air pressure
Floor and Walls Covered	WORK PRACTICES	20:420.034 negative air pressure
Area Ventilation Off	X Wet Methods Used	21:480.034 negative air pressure
X All Edges Sealed	X HEPA Vacuums Used	22:450.032 negative air pressure
X Penetrations Sealed	X Waste Double-Bagged or B	arreled
X Entry Curtains	X Wastewater Filtered or Barr	eled
X Critical Barriers	X Negative Air Pressure Achie	eved
Containment Smoke Tested	X Equipment Decontaminated	
X Work Area Secured	Other:	
AIR MONITORING PERFORMED BY OCCU-TEC INC. : PCM _ X _ , TEM		
Туре		
No. of Background Samples	No. of Perso	mal Samples 0
No. of Area Samples	No. of Clean	ance Samples 0
SIGNATURE: Patricia Garcia	water the state of	



DAILY FIELD REPORT

CLIENT: GSA		PROJECT NAME: Goodfellow BLDG 107 3rd Party Air Monitoring Project Oversite	
PROJECT NUMBER.: 92114		DATE: 10-02-12	
CONTRACTOR: Global Environmental			
OCCU-TEC PERSONNEL: Patricia Garcia			
IN: 16:30		OUT: 00:00	
CONTRACTOR SUPERVISOI Matt Lour/Vie	cki Dunn	NUMBER OF WORKERS: 8	
IN: 17:00		OUT: 90:00	
VISITORS ON SITE:			
OBSERVED WEATHER CONDITIONS:	Temperature:70 Degrees	Conditions: Clear, Cloudy _X, Raining	
TODAY'S ACTIVITIES: Prep. X, Removal _X_, Cleanup _X_, Encap, Enclosure, Demo, Teardown/Demob.			
Area of Activity: Basement GSA 107 Cr	awl Space	Quantity Removed: 75 cubic yards	
Material Description:Debris		Quantity Remaining:	
Area of Activity:		Quantity Removed:	
Material Description:		Quantity Remaining:	
Area of Activity:		Quantity Removed:	
Material Description:		Quantity Remaining:	
		(, Non-Friable, Exterior, Other (Explain)	
		[anometer on site Yes_, Manometer Reading (if < 0.02")	
DECONTAMINATION UNIT; Yes _X,			
DECONTAMENATION UNIT: 16sX,	No, # 01 Stages _ 3	Shower: Yes _X, No	
PROJECT SITE CHECKLIST X	PERSONAL PROTECTIVE	EQUIPMENT RESPIRATORY PROTECTION	
Emergency Info. Posted	X Disposable Suits	X Half-Face Air Purifying Respirator	
Fire Extinguishers On-Site	X Boots	Full-Face Air Purifying Respirator	
GFCI's Used	X Gloves	Powered Air Purifying Respirator	
X OSHA info.Posted	Safety Glasses/ Goggles	Other	
Personal Sampling Conducted	Hard Hat		
XEntrance Warning Signs Posted	Safety Vest	SIGNIFICANT EVENTS	
Entry/Exit Logs Posted	Hearing Protection	17:100.045 negative air pressure	
X Storage Bins Labeled	Other:	18:130.050 negative air pressure	
X Bags Labeled	_	19:000.045 negative air pressure	
Floor and Walls Covered	WORK PRACTICES	20:130.045 negative air pressure	
Area Ventilation Off	X Wet Methods Used	21:07 0.037 negative air pressure	
X All Edges Sealed	X HEPA Vacuums Used	22:37 0.036 negative air pressure	
X Penetrations Sealed	X Waste Double-Bagged or B.	• •	
·		•	
X Entry Curtains	X Wastewater Filtered or Barr		
X Critical Barriers	X Negative Air Pressure Achie		
Containment Smoke Tested	X Equipment Decontaminated		
X Work Area Secured	Other:		
AIR MONITORING PERFORMED BY OCCU-TEC INC. : PCM _X, TEM			
Type	0 31th	and Samulas 0	
· · —	0 No. of Person No. of Clear	mal Samples 0 0	
SIGNATURE: Patricia Garcia_			



DAILY FIELD REPORT

CLIENT: GSA	PROJECT NAME: Goodfellow BLDG 107 3rd Party Air Monitoring Project Oversite		
PROJECT NUMBER.: 92114	DATE: 10-03-12		
CONTRACTOR: Global Environmental			
OCCU-TEC PERSONNEL: Patricia Garcia			
IN: 16:00	OUT: 00:00		
CONTRACTOR SUPERVISOI Matt Lour/Vicki Dunn	NUMBER OF WORKERS: 8		
IN: 16:00	OUT: 80:00		
VISITORS ON SITE:			
OBSERVED WEATHER CONDITIONS: Temperature: _81 Degrees Conditions: Clear _X, Cloudy,			
TODAY'S ACTIVITIES: Prep. X, Removal X, Cleanup X, Encap, Enclosure, Demo, Teardown/Demob.			
Arca of Activity:Basement GSA 107 Crawl Space	Quantity Removed: 95 cubic yards		
Material Description:Debris	Quantity Remaining:		
Area of Activity:	Quantity Removed:		
Material Description:	Quantity Remaining:		
Area of Activity:	Quantity Removed:		
Material Description:	Quantity Remaining:		
WORK PROCEDURES: Gross Removal X_, Glovebag, Friable _	X_, Non-Friable, Exterior, Other (Explain)		
ENGINEERING CONTROLS: Full ContainmentX, Critical Barriers	X,Splash Guards, Drop Cloth, Barrier TapeX		
NEGATIVE AIR SYSTEM: Yes _X, No, # of Units _5_, }			
DECONTAMINATION UNIT: Ycs _X_, No, # of Stages3_			
PROJECT SITE CHECKLIST PERSONAL PROTECTIVE	E EQUIPMENT RESPIRATORY PROTECTION		
X Emergency Info, Posted X Disposable Suits	X Half-Face Air Purifying Respirator		
X Fire Extinguishers On-Site X Boots	Full-Face Air Purifying Respirator		
GFCI's Used X Gloves	Powered Air Purifying Respirator		
X OSHA Info.Posted Safety Glasses/ Goggles	Other:		
Personat Sampling Conducted Hard Hat			
X Entrance Warning Signs Posted Safety Vesu	SIGNIFICANT EVENTS		
X Entry/Exit Logs Posted Hearing Protection	16:150.037 negative air pressure		
	18:230.037 negative air prossure		
	19:010.035 negative air pressure		
X Bags Labeled	· ·		
Floor and Walls Covered WORK PRACTICES	20:220.034 negative air pressure		
Area Ventilation Off X_Wet Methods Used	21:000.041 negative air pressure		
X All Edges Scaled X HEPA Vacuums Used	22:220.026 negative air pressure		
X Penetrations Sealed X Waste Double-Bagged or I			
X Entry Curtains X Wastewater Filtered or Bar	reled		
X Critical Barriers X Negative Air Pressure Ach	ieved		
Containment Smoke TestedX _ Equipment Decontaminate	<u> </u>		
X Work Area Secured Other:			
AIR MONITORING PERFORMED BY OCCU-TEC INC.: PCM _X, TEM			
Туре			
·	onal Samples 0 prance Samples 0		
No. of Area Samples 10 No. of Clea	rance Samples 0		



4151 N. Mulberry Drive, Suite 275 KANSAS CITY, MO 64116 PH: (816) 231-5580 TOLL FREE: (800) 950-1953 FAX: (816) 231-5641

DAILY FIELD REPORT (Please print information clearly)

CLIENT: GSA	PR	OJECT NAME: Goodfellow BLDG 107 3rd Party Air Monitoring Project Oversite
PROJECT NUMBER.: 92114	DA	TE: 10-04-12
CONTRACTOR: Global Environmental		
OCCU-TEC PERSONNEL: Patricia Gard	ria	
IN: 16:00	OU	T': 00:00
CONTRACTOR SUPERVISOI Matt Lour/	Vicki Dunn NU	MBER OF WORKERS: 8
IN: 17:00	ou	T: 00:00
VISITORS ON SITE:		<u> </u>
OBSERVED WEATHER CONDITIONS:	Temperature:82 Degrees	Conditions: Clear X, Cloudy,
TODAY'S ACTIVITIES: Prep. X_	, Removal_X_, Cleanup_X_, £	ncap, Enclosure, Demo, Teardown/Demob.
Area of Activity:Basement GSA 107	Crawl Space	Quantity Removed: 150 cubic yards
Material Description:Debris_		Quantity Remaining:
Area of Activity:		Quantity Removed:
Material Description:	· · · · · · · · · · · · · · · · · · ·	Quantity Remaining:
Area of Activity:		Quantity Removed:
Material Description:		Quantity Remaining:
WORK PROCEDURES: Gross Remo	oval _X, Glovebag, Friable _X, N	Non-Friable, Exterior, Other (Explain)
ENGINEERING CONTROLS: Full Contain	nmentX_, Critical Barriers _X,	Splash Guards, Drop Cloth, Barrier TapeX
		eter on siteYes, Manometer Reading (if < 0.02")
DECONTAMINATION UNIT: Yes _X_	- 	Shower: Yes _X_, No
PROJECT SITE CHECKLIST X	PERSONAL PROTECTIVE EQU	
Emergency Info. Posted	X Disposable Suits	X Half-Face Air Purifying Respirator
Fire Extinguishers On-Site	X Boots	Full-Face Air Purifying Respirator
GFCI's Used	X Gloves	Powered Air Purifying Respirator
OSHA Info.Posted	Safety Glasses/ Goggles	Other:
Personal Sampling Conducted	Hard Hat	
Entrance Warning Signs Posted	Safety Vest	SIGNIFICANT EVENTS
Entry/Exit Logs Posted	Varing Protection	
	Hearing Protection	16:000.016 negative air pressure
X Storage Bins Labeled	Other:	16:000.016 negative air pressure 18:000.025 negative air pressure
X Storage Bins Labeled X Bags Labeled		
		18:000.025 negative air pressure
X Bags Labeled	Other:	18:000.025 negative air pressure 19:010.025 negative air pressure
X Bags Labeled Floor and Walls Covered	Other: WORK PRACTICES	18:000.025 negative air pressure 19:010.025 negative air pressure 20:220.025 negative air pressure
X Bags Labeled Floor and Walls Covered Area Ventilation Off	Other: WORK PRACTICES X Wet Methods Used	18:000.025 negative air pressure 19:010.025 negative air pressure 20:220.025 negative air pressure 21:000.025 negative air pressure 22:220.025 negative air pressure
X Bags Labeled Floor and Walls Covered Area Ventilation Off X All Edges Sealed	WORK PRACTICES X Wet Methods Used X HEPA Vacuums Used X Waste Double-Bagged or Barrelee	18:000.025 negative air pressure 19:010.025 negative air pressure 20:220.025 negative air pressure 21:000.025 negative air pressure 22:220.025 negative air pressure
X Bags Labeled Floor and Walls Covered Area Ventilation Off X All Edges Scaled X Penetrations Scaled X Entry Curtains	WORK PRACTICES X Wet Methods Used X HEPA Vacuums Used X Waste Double-Bagged or Barreled X Wastewater Filtered or Barreled	18:000.025 negative air pressure 19:010.025 negative air pressure 20:220.025 negative air pressure 21:000.025 negative air pressure 22:220.025 negative air pressure
X Bags Labeled Floor and Walls Covered Area Ventilation Off X All Edges Scaled X Penetrations Scaled X Entry Curtains X Critical Barriers	WORK PRACTICES X Wet Methods Used X HEPA Vacuums Used X Waste Double-Bagged or Barreled X Wastewater Filtered or Barreled X Negative Air Pressure Achieved	18:000.025 negative air pressure 19:010.025 negative air pressure 20:220.025 negative air pressure 21:000.025 negative air pressure 22:220.025 negative air pressure
X Bags Labeled Floor and Walls Covered Area Ventilation Off X All Edges Sealed X Penetrations Sealed X Entry Curtains X Critical Barriers Containment Smoke Tested	WORK PRACTICES X Wet Methods Used X HEPA Vacuums Used X Waste Double-Bagged or Barreled X Wastewater Filtered or Barreled X Negative Air Pressure Achieved X Equipment Decontaminated	18:000.025 negative air pressure 19:010.025 negative air pressure 20:220.025 negative air pressure 21:000.025 negative air pressure 22:220.025 negative air pressure
X Bags Labeled Floot and Walls Covered Area Ventilation Off X All Edges Scaled X Penetrations Scaled X Entry Curtains X Critical Barriers Containment Smoke Tested X Work Area Secured	WORK PRACTICES X Wet Methods Used X HEPA Vacuums Used X Waste Double-Bagged or Barreled X Wastewater Filtered or Barreled X Negative Air Pressure Achieved X Equipment Decontaminated Other:	18:000.025 negative air pressure 19:010.025 negative air pressure 20:220.025 negative air pressure 21:000.025 negative air pressure 22:220.025 negative air pressure
X Bags Labeled Floor and Walls Covered Area Ventilation Off X All Edges Sealed X Penetrations Sealed X Entry Curtains X Critical Barriers Containment Smoke Tested X Work Area Secured	WORK PRACTICES X Wet Methods Used X HEPA Vacuums Used X Waste Double-Bagged or Barreled X Wastewater Filtered or Barreled X Negative Air Pressure Achieved X Equipment Decontaminated Other:	18:000.025 negative air pressure 19:010.025 negative air pressure 20:220.025 negative air pressure 21:000.025 negative air pressure 22:220.025 negative air pressure
X Bags Labeled Floot and Walls Covered Area Ventilation Off X All Edges Scaled X Penetrations Scaled X Entry Curtains X Critical Barriers Containment Smoke Tested X Work Area Secured	WORK PRACTICES X Wet Methods Used X HEPA Vacuums Used X Waste Double-Bagged or Barreled X Wastewater Filtered or Barreled X Negative Air Pressure Achieved X Equipment Decontaminated Other:	18:000.025 negative air pressure 19:010.025 negative air pressure 20:220.025 negative air pressure 21:000.025 negative air pressure 22:220.025 negative air pressure



No. of Area Samples

SIGNATURE: Patricia Garcia

4151 N. Mulberry Drive, Suite 275 KANSAS CITY, MO 64116 PH: (816) 231-5580 TOLL FREE: (800) 950-1953 FAX: (816) 231-5641

DAILY FIELD REPORT (Please print information clearly) PROJECT NAME: Goodfellow BLDG 107 3rd Party Air Monitoring Project Oversite CLIENT: GSA DATE: 10-05-12 PROJECT NUMBER.: 92114 CONTRACTOR: Global Environmental OCCU-TEC PERSONNEL: Patricia Garcia OUT: 89:80 IN: 16:00 CONTRACTOR SUPERVISOI Matt Lour/Vicki Dunn NUMBER OF WORKERS: IN: 17:00 OUT: 00:00 VISITORS ON SITE: OBSERVED WEATHER CONDITIONS: Conditions: Clear , Cloudy _X_, Ruining Temperature: __50 Degrees Prep. X Removal X, Cleanup X, Encap. , Enclosure , Demo. , Teardown/Demob. TODAY'S ACTIVITIES: Basement GSA 107 Crawl Space Quantity Removed: 97 cubic yards Area of Activity: Quantity Remaining:___ Material Description: _ Debris Quantity Removed: Area of Activity: Quantity Remaining:_ Material Description: Quantity Removed: Area of Activity: Material Description: Quantity Remaining: _, Exterior ____, Other (Explain) WORK PROCEDURES: Gross Removal X_, Glovebag ___, Friable X_, Non-Friable , Drop Cloth , Barrier Tape X ENGINEERING CONTROLS: Full Containment Splash Guards X___, Critical Barriers __X_ Yes___, Manometer Reading (if < 0.02") NEGATIVE AIR SYSTEM: _, # of Units __5_, Manometer on site Yes _X__, No DECONTAMINATION UNIT: Yes X No , # of Stages 3 Shower: Yes _X_, No_ RESPIRATORY PROTECTION PERSONAL PROTECTIVE EQUIPMENT PROJECT SITE CHECKLIST X Half-Face Air Purifying Respirator Emergency Info. Posted X Disposable Suits Full-Face Air Purifying Respirator X Boots Fire Extinguishers On-Site GFCf's Used X Gloves Powered Air Purifying Respirator Safety Glasses/ Goggles OSHA Info.Posted Hard Hat Personal Sampling Conducted SIGNIFICANT EVENTS Safety Vest Entrance Warning Signs Posted 16:00- -0.016 negative air pressure Entry/Exit Logs Posted Hearing Protection 18:00- -0.022 negative air pressure X Storage Bins Labeled Other: 19:29 - -0.022 negative air pressure X Bags Labeled 21:07 - -0.023 negative air pressure Floor and Walls Covered WORK PRACTICES 21:00 - -0.025 negative air pressure X Wet Methods Used Area Ventilation Off X All Edges Scaled X HEPA Vacuums Used 22:22 - -0.025 negative air pressure X Waste Double-Bagged or Barreled X Penetrations Sealed X Entry Curtains X Wastewater Filtered or Barreled X Critical Barriers X Negative Air Pressure Achieved X Equipment Decontaminated Containment Smoke Tested Other: X Work Area Secured AIR MONITORING PERFORMED BY OCCU-TEC INC. : PCM _X__, TEM Type No. of Background Samples No. of Personal Samples

No. of Clearance Samples



SIGNATURE: ____Patricia Garcia_

4151 N. Mulberry Drive, Suite 275 KANSAS CITY, MO 64116 PH: (816) 231-5580 TOLL FREE: (800) 950-1953 FAX: (816) 231-5641

DAILY FIELD REPORT

(Please print information clearly)

CLIENT: GSA	PRO	DIECT NAME: Goodfellow BLDG 107 3rd Party Air Monitoring Project Oversite
PROJECT NUMBER.: 92114	DA'	FE: 10-08-12
CONTRACTOR: Global Environmental	de a contration de la c	
OCCU-TEC PERSONNEL: Patricia Garcia		
IN: 6:30	OU'	F: 15:00
CONTRACTOR SUPERVISOI Matt Lour/Vi	cki Dunn NU	MBER OF WORKERS: 4
IN: 7:00		Г: 15:00
VISITORS ON SITE:		
OBSERVED WEATHER CONDITIONS:	Temperature:38 Degrees	Conditions: Clear X, Cloudy,
TODAY'S ACTIVITIES: Prep. X	, Removal _X_, Cleanup _X_, E	ncapX, Enclosure, Demo, Teardown/Demob.
Area of Activity:Basement GSA 107 Cr	awl Space	Quantity Removed: 10 30gal bags
Material Description:Debris	W. A. LANDING IN CONTROL IN CONTR	Quantity Remaining:
Area of Activity:		Quantity Removed:
Material Description:	Albertain	Quantity Remaining:
Area of Activity:		Quantity Removed:
Material Description:		Quantity Remaining:
		Non-Friable, Exterior, Other (Explain)
ENGINEERING CONTROLS: Full Contains	ent X_, Critical Barriers X_,5	plash Guards, Drop Cloth, Barrier TapeX
NEGATIVE AIR SYSTEM: Yes _X,	No, # of Units5_, Manom	eter on siteYes, Manometer Reading (if < 0.02")
DECONTAMINATION UNIT: Yes _X,	No, # of Stages _ 3	Shower: Yes _X_, No
PROJECT SITE CHECKLIST	PERSONAL PROTECTIVE EQU	IPMENT RESPIRATORY PROTECTION
X Emergency Info. Posted	X Disposable Suits	X Half-Face Air Purifying Respirator
X Fire Extinguishers On-Site	X Boots	Full-Face Air Purifying Respirator
X GFCI's Used	X Gloves	Powered Air Purifying Respirator
X OSHA Info.Posted	Safety Glasses/ Goggles	Other:
Personal Sampling Conducted	Hard Hat	
XEntrance Warning Signs Posted	Safety Vest	SIGNIFICANT EVENTS
XEntry/Exit Logs Posted	Hearing Protection	6:300.016 negative air pressure
X Storage Bins Labeled	Other:	8:000.022 negative air pressure
X Bags Labeled		9:300.022 negative air pressure
Floor and Walls Covered	WORK PRACTICES	11:070.020 negative air pressure
Area Ventilation Off	X Wet Methods Used	13:000.021 negative air pressure
X All Edges Scaled	X HEPA Vacuums Used	14:170.020 negative air pressure
X Penetrations Sealed	X Waste Double-Bagged or Barrele	d
X Entry Curtains	X Wastewater Filtered or Barreled	
X Critical Barriers	X Negative Air Pressure Achieved	
Containment Smoke Tested	X Equipment Decontaminated	
X Work Area Secured	Other:	
AIR MONITORING PERFORMED BY OCC	U-TEC INC.: PCM	_X, TEM
Type		
No. of Background Samples	0 No. of Personal S	
No. of Area Samples	8 No. of Clearance	Samples 0

Appendix C

Asbestos Air Monitoring Reports (PCM)

SALETY AND ENVIRONMENTAL SOLUTIONS Y OCCU-TEC

4151 N. Mulberry Drive, Suite 275 KANSAS CITY, MO 64116 PH: (816) 231-5580

FAX: (816) 231-5641

92114

412

10/23/2012 9/19/2012 9/18/2012 OCCU-TEC Project #: Analysis Date: Sample Date: Report Date: Rotometer # PROJECT NAME: 3rd Party Project Oversite BLDG 107 Crawl Space 1500 Bannister Road GSA CLIENT NAME: ADDRESS:

FILTER TYPE: 25mm, 0.8 um MCE	um MCE	ANALYTICAL METHOD: NIOSH 7400	L METHO	D: NIOSH	7400					Blank Average =	1 11 200	c		1
Client	Activity/	Sample	Pump	Flow	Flow Rate (I/min)	(uit	Running Time	Time	Total	Volume			Fibers/	Fibers
Sample ID	Location	Type	Ω	Start	End	NA A	Start	Stop		itere	Fibers	in a	20 11	
92114-PCM-001 Field Blank	Field Blank										2	100	7111111	3
92114-PCM-002 Field Blank	Field Blank		T								> <	100		
92114-PCM-003	92114-PCM-003 2nd Floor by Room 214	OWA	404	1.25	1.25	1.25	15:33	11:27	1194	1492.5	9.5	100	12 10	0.003
92114-PCM-004	92114-PCM-004 2nd Floor by Room 224	OWA	399	1.25	1.25	1.25	15:55	11.28	1173	1466.3	-	199	14.01	0.00
92114-PCM-005	92114-PCM-005 1st Floor Admin Office	OWA	405	3.29	3.29	3.29	16:09	23:17	428	1408.1	22	100	28.03	0.008
92114-PCM-006	92114-PCM-006 1st Floor GSA Office	OWA	385	3.29	3.29	3.29	16:11	23:17	426	1401.5	10.5	100	13.38	0.004
92114-PCM-007	92114-PCM-007 1st Floor North Hallway	OWA	388	3.29	3.29	3.29	16:15	23:15	420	1381.8	10.5	100	13.38	0.004
92114-PCM-008	92114-PCM-008 1st Floor South Vestibule	OWA	386	3.29	3.29	3.29	16:18	23:16	418	1375.2	8.5	100	10.83	0.003
92114-PCM-009	92114-PCM-009 Basement Outside	OWA	89	3.29	3.29	3.29	16:20	23:18	418	1375.2	2	100	2.55	< 0.002
92114-PCM-010	92114-PCM-010 Basement Change Area	OWA	403	3.29	3.29	3.29	16:26	23:24	418	1375.2	6	100	11.46	0.003
92114-PCM-011	92114-PCM-011 Basement by Sensors	OWA	406	3.29	3.29	3.29	16:30	23:26	416	1368.6	7.5	100	9.55	0.003
92114-PCM-012	92114-PCM-012 Basement Decon	OWA	349	3.29	3.29	3.29	16:31	23:25	414	1362.1	6	100	11.46	0.003
	The second secon													
SAMPLE TYPE				ACTIVITY						RESPIRATOR TYPE	R TYPE			

0404400000

NAE≖negative air exhaust CR≕ clean room	
NAE CR≡	
IWA≕inside work area OWA= outside work area BGD=background	·h
PRS=personal BLK≃ blank CL≃clearance	Analyzed By:

BGLO=bag load out CLN=clean up EXC=excursion PREP=site prep. GLBG=glovebag GREM=gross removal

APR=air purifying resp. SA=supplied air PD=pressure demand preaming apparatus.

HM=half mask
FF=full face
P≃powered
SCBA=seit contained in

Checked By:

The NIOSH 7400 counting rules A does not distinguish between asbestos and non-asbestos fibers.

The NIOSH 7400 method assumes the lowest quantitative fiber density is 7 fibers / 100 fields at 96% confidence level. OCCUTEC's limit of detection (LOD) is equal to 7 fibers/100 fields. Samples proceeded by a < sign are debulated using a count of 7 fibers per 100 fields.

This report should not be reproduced except in full.

The estimated intracounter coefficient of variation (CV) for this laboratory is 0.77 (Low Range), 0.27 (Wedium Range), 0.17 (High Range). AIHA PAT Lab #: 101266

The estimated interlaboratory CV for the quality control program that this laboratory participates in $18\,0.45$. Low Range = 5 to 20 Fibers; Medium Range = 20 to 50 Fibers; High Range = 50 to 100 Fibers

fishare\mestere\forms\asbestas\pommester.xls

SAFETY AND ENVIRONMENTAL SOLUTIONS / OCCU-LEC

4151 N. Mulberry Drive, Suite 275 KANSAS CITY, MO 64116 PH: (816) 231-5580

FAX: (816) 231-5641

92114

9/19/2012 9/20/2012 10/23/2012 412 OCCU-TEC Project #: Analysis Date: Sample Date: Report Date: Rotometer # 3rd Party Project Oversite BLDG 107 Crawl Space 1500 Bannister Road GSA PROJECT NAME: CLIENT NAME: ADDRESS:

FILTER TYPE: 25mm, 0.8 um MCE	MCE	ANA! YTICA! METHOD: NIOSH 7486	CHTAN	CHOOM O	200									ı
Client	letterite A	-	,	i	201					Signk Average =	age =	-		
G T	ACIAILY.	эшшы	<u>.</u>	¥0.	Flow Rate (I/min)	<u>=</u>	Runnin	Running Time	Tota	Volume			Fibers/	Fibers/
Sample ID	Location	Type	۵	Start	퇿	Avg	Start	Stop	Minutes	Liters	Fibers	Fields	mm2	8
921 14-FCM-013 Field Blank	-leid Blank										1	100		
92114-PCM-014 Field Blank	ield Blank										·	100		
92114-PCM-015	92114-PCM-015 2nd Floor by Room 214	OWA	404	1.25	1.25	1.25	16:02	11:20	1158	1447 5		100	2.55	< 0.000
92114-PCM-016 2	92114-PCM-016 2nd Floor by Room 224	OWA	399	1.25	1.25	1.25	16:03	11:21	1158	1447 5	6	100	2.55	
92114-PCM-017 1	92114-PCM-017 1st Floor Admin Office	OWA	405	3.29	3.29	3.29	16:10	23:00	410	1348.9	2	100	7 64	
92114-PCM-018 1	92114-PCM-018 1st Floor GSA Office	OWA	385	3.29	3.29	3.29	16:12	23:01	409	1345.6	10	100	11.46	1
92114-PCM-019 1	92114-PCM-019 1st Floor North Hallway	OWA	388	3.29	3.29	3,29	16:15	23:02	407	1339	2	100	127	< 0.003
92114-PCM-020 1	92114-PCM-020 1st Floor South Vestibule	OWA	386	3.29	3.29	3.29	16:16	23:03	407	1339	4	100	3.82	
92114-PCM-021 Basement Outside	Sasement Outside	OWA	89	3.29	3.29	3.29	16:30	23:04	394	1296.3	8.5	100	9.55	1
92114-PCM-022 E	92114-PCM-022 Basement Change Area	OWA	403	3.29	3.29	3.29	16:20	23:06	406	1335.7	4	100	3.82	< 0.003
92114-PCM-023 E	92114-PCM-023 Basement by Sensors	OWA	406	3.29	3.29	3.29	16:21	23:05	404	1329.2	6	100	10.19	0.003
92114-PCM-024 Basement Decon	Sasement Decon	OWA	349	2.29	2.29	2.29	16:25	23:08	403	922.87	1.5	100	0.64	× 0.004
SAMPLE TYPE				ACTIVITY						RESPIRATOR TYPE	OR TYPE		İ	
_	IWA=inside work area NAE=negative air exhaust OWA= outside work area CR= clean room		L	PREP=site prep. GLBG≂glovebag	orep.		BGLO=bag load out CLN≃clean up	load out up		HM=half mask FF=full face	ask	APR=air purifying resp. SA=supplied air	esp.	- Allegania de la companya de la com
CL=clearance BGD=background	ground			GREM=gross removat	s removal	-	EXC=excursion	sion		P=powered		PD=pressure demand	and	

The NIOSH 7400 counting rules A does not distinguish between asbestos and non-asbestos fibers. Analyzed By:

EXC≃excursion GREM=gross removat Checked By:

P=powered PD=pressure demand bcb=ser contained preatring apparatus.

The NIOSH 7400 method assumes the lowest quantitative fiber density is 7 fibers / 100 fields at 95% confidence level. OCCUTEC's limit of detection (LOD) is equal to 7 fibers/100 fields.

Samples proceeded by a < sign are calculated using a count of 7 fibers per 100 fields. This report should not be reproduced except in full.

The estimated intracounter coefficient of variation (CV) for this laboratory is 0.77 (Low Range), 0.27(Medium Range, 0.17 (High Range), AIHA PAT Lab #: 101266

The estimated interlaboratory CV for the quality control program that this laboratory participates in is 0.念5. Low Range = 5 to 20 Fibers; Medium Range = 20 to 58 Fibers; High Range = 50 to 100 Fibers

fishere/mastera/formsteabeatos/ponimaster.xis

SAFETY AND ENVIRONMENTAL SOLUTIONS

PCM ANALYSIS OF AIR SAMPLES

4151 N. Mulberry Drive, Suite 275 KANSAS CITY, MO 64116 PH: (816) 231-5580 FAX: (816) 231-5641

									OCCU-TEC Project #:	EC Proj	ect # :	92114	
·	1								Sample Date:	Date:	9/20/2012		İ
AUDRESS: 1500 Bannister Road	I								Analysis Date:	Date:	9/21/2012		ł
PRUJECT NAME: 3rd Party Project Oversite BLDG 107 Cr.	Srawl Space								Report Date:	ate:	10/23/2012		ı
									Rotometer #	er#	412		l
imm, 0.8 um MCE	ANALYTICAL METHOD: NIOSH 7400	L METHO	D: NIOSH	7400					Blank Average =	age =	0.5		ı
Client Activity/	Sample	Pump	Flow	Flow Rate (I/min)	ln)	Running Time	g Time	Total	Volume			Fibers/	Fibers
Sample ID Location	Type	٥	Start	End	Avg	Start	Stop	Minutes	Liters	Fibers	Fields	mm2	
92114-PCM-025 Field Blank										-	100		
92114-PCM-026 Field Blank										0	100		
92114-PCM-027 2nd Floor by Room 214	OWA	404	1.25	1.25	1.25	16:33	15:54	1401	1751.3	11.5	100	14.01	0.003
92114-PCM-028 2nd Floor by Room 224	OWA	399	1.25	1.25	1.25	16:35	15:55	1400	1750	6.5	100	7.64	< 0.002
	OWA	405	3.29	3.29	3.29	16:38	23:01	383	1260.1	12.5	100	15.29	0.005
92114-PCM-030 1st Floor GSA Office	OWA	385	3.29	3.29	3.29	16:40	23:02	382	1256.8	13.5	100	16.56	0.005
92114-PCM-031 1st Floor North Hallway	OWA	388	3.29	3.29	3.29	16:42	23:04	382	1256.8	2	100	5.73	× 0.003
92114-PCM-032 1st Floor South Vestibule	OWA	386	3.29	3.29	3.29	16:45	23:04	379	1246.9	5	100	5.73	< 0.003
92114-PCM-033 Basement Change Area	OWA	403	3.29	3.29	3.29	16:49	23:06	377	1240.3	11.5	100	14.01	0.004
92114-PCM-034 Basement Decon	OWA	356	2.29	2.29	2.29	16:55	23:06	371	849.59	3	100	3.18	> 0.004
	OWA	68	3.29	3.29	3.29	16:58	23:11	373	1227.2	6	100	10.83	0,003
92114-PCM-036 Basement by Sensors	OWA	406	3.29	3.29	3.29	16:56	23:07	371	1220.6	6.5	100	7.64	< 0.003
THE PROPERTY OF THE PROPERTY O													
SAMPLE TYPE			ACTIVITY						RESPIRATOR TYPE	JR TYPE			
PRS=personal IWA≃inside work area NAE≍negafive air exhaust BLK= blank OWA= outside work area CR= olean room			PREP≕site prep. GLBG≕doveban	prep.		BGLO=bag load out	load out		HM≂half mask FF=full tace		APR≖atr purifying resp. SA≖supolied air	dsə.	<u> </u>
CL≖clearance BGD≃background			GREM=gross removal	ss removal		EXC=excursion	sion		P=powered	_	P=powered PD=pressure demand	pue	
									acov-sell	contained	reaming apparatu		٦
Analyzed By:			Checked By:	d By:									

The NIOSH 7400 counting rules A does not distinguish between asbestos and non-asbestos fibers.

The NIOSH 7400 method assumes the lowest quantitative fiber density is 7 fibers / 100 fields at 95% confidence level. OCCUTEC's limit of detection (LOD) is equal to 7 fibers/100 fields.

AlHA PAT Lab #: 101266

This report should not be reproduced except in full.

The estimated intracounter coefficient of variation (CV) for this laboratory is 9.77 (Low Range), 0.27(Medium Range, 0.17 (High Range).

Low Range = 5 to 20 Fibers; Medium Range = 20 to 50 Fibers; High Range = 50 to 100 Fibers. The estimated interlaboratory CV for the quality control program that this laboratory participates in 19 0.45.

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SAFETY AND ENVIRONMENTAL SOLUTIONS

4151 N. Mulberry Drive, Suite 275 KANSAS CITY, MO 64116 PH: (816) 231-5580 FAX: (816) 231-5641

THENT NAME.	600									OCCU-1 EC Project # :	E E	ect #:	92114	ĺ
	1000 P	ı								Sample Date:	Date:	9/21/2012		
ADDRESS:	1500 Bannister Road	1								Analysis Date:	Date:	9/24/2012		!
ACCIECT NAME:	ANDIECT NAME: 3rd Party Project Oversite BLDG 107 Cray	07 Crawl Space								Report Date:	ate:	10/23/2012		ì
in the state of th										Rotometer #	er#	412		1
TIEK IYPE: 25mm, 0.8 um MCE		ANALYTICAL METHOD: NIOSH 7400	L METHO(D: NIOSH 7	7400					Blank Average =	u ≡ age	_		
Client	Activity/	Sample	Pump	Flow	Flow Rate (I/min)	in)	Running Time	Time	Total	Volume			Fibers/	HI I
Sample ID	Location	Туре	۵	Start	End	Avg	Start	Stop	40	Lifers	Flbers	Fields	, EE	?
92114-PCM-037 Field Blank	Field Blank										-	100		
92114-PCM-038 Field Blank	Field Blank						-				-	100		
92114-PCM-039	92114-PCM-039 1st Floor Admin Office	OWA	405	3.29	3.29	3.29	16:22	22:51	389	1279.8	2	100	1.27	v
92114-PCM-040	92114-PCM-040 1st Floor GSA Office	OWA	385	3.29	3.29	3.29	16:24	22:52	388	1276.5	7	100	7.64	o v
92114-PCM-041	92114-PCM-041 1st Floor North Hallway	OWA	388	3.29	3.29	3.29	16:26	22:53	387	1273.2	-	100	0.00	c v
92114-PCM-042	92114-PCM-042 1st Floor South Vestibule	OWA	386	3.29	3.29	3.29	⊢	22.54	386	1269.9	2	100	127	1
92114-PCM-043	92114-PCM-043 1st Floor Conference Room	OWA	356	2.29	2.29	2.29	├	22:55	385	881.65	-	100	0.00	o v
92114-PCM-044	92114-PCM-044 Basement Change Area	OWA	403	3.29	3.29	3,29	16:48	22:58	370	1217.3	7	100	12.74	Ô
92114-PCM-045	92114-PCM-045 Basement Decon	OWA	348	2.29	2.29	2.29	16:33	22:59	386	883.94	5	100	5.10	ō v
92114-PCM-047	92114-PCM-047 Basement by Sensors	OWA	406	3.29	3.29	3.29	16:52	23:00	368	1210.7	1	100	0.00	ō v
92114-PCM-046	92114-PCM-046 Basement Neg Air Exhaust	OWA	349	2.29	2.29	2.29	16:52	23:00	368	842.72	_	100	7.64	o v
92114-PCM-048	Outside Pit Entrance	OWA	68	3.29	3.29	3.29	16:33	22:57	384	1263.4	12.5	100	14,65	ö
				-										
SAMPLE TYPE			`	ACTIVITY						RESPIRATOR TYPE	R TYPE			
	IWA≐inside work area NAE≒negative air exhaust OWA≔ outside work area CR= clean room		<u>u o</u>	PREP=site prep. GLBG=glovebag	prep. ebag	<u> </u>	BGLO≂bag load out CLN=clean up	ad out p		HM=half mask FF⊭tull face		APR=alr purifying resp. SA=supplied air	ds	
N-clearance BGD=ba	BGD=background		끄	GREM=gross removal	ss removal		EXC=excursion	5		P=powered		PD=pressure demand	ŢĮ.	
														•

003 003 004 004 004 004

The NIOSH 7400 counting rules A does not distinguish between asbestos and non-asbestos fibers.

Analyzed By:

The NIOSH 7400 method assumes the lowest quantitative fiber density is 7 fibers / 100 fields at 95% confidence level. OCCUTEC's limit of detection (LOD) is equal to 7 fibers/100 fields.

Checked By:

Samples proceeded by a < sign are calculated using a count of 7 fibers per 100 fields. This report should not be reproduced except in full.

This report should not be reproduced except in full.

The ostimated intracounter coefficient of variation (CV) for this laboratory is 0.77 (Low Range), 0.27(Medium Range, 0.17 (High Range).

The estimated interlaboratory CV for the quality control program that this laboratory participates in is 0.45. Low Range = 5 to 20 Fibers; Medium Range = 20 to 50 Fibers; High Range = 50 to 100 Fibers

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SAFETY AND ENVIRONMENTAL SULUTIONS

4151 N. Mulberry Drive, Suite 275 KANSAS CITY, MO 64116 OCCU-TEC Project #: FAX: (816) 231-5641 PH: (816) 231-5580

Fibers/ 0.002 0.002 0.002 0.002 < 0.002 0.002 < 0.002 92114 Fibers/ 9.55 mm2 7.64 4.46 2.55 6.37 8.92 6.37 1.91 APR≂air purifying resp. SA≂supplied air P=powered PD=pressure demand SUCHA=seir contained preatung apparatus. 412 9/25/2012 10/23/2012 9/24/2012 0.5 100 100 8 |8 8 9 100 9 9 100 5 Fibers Sample Date: Analysis Date: RESPIRATOR TYPE cs cs Blank Average = 6.5 5.5 Z Z Report Date: Rotometer# 0 4 00) HM≖half mask FF≕fuli face 1650.6 1659.4 1646.3 1558.5 1554.1 1567.2 1637,5 1012.7 Liters 1725 Volume Minutes 1380 Total 1380 355 354 375 373 357 391 15:42 15:44 23.08 23:04 23:02 23:03 23:00 23:01 23:06 23.05 BGLO=bag load out CLN=clean up EXC=excursion Stop Running Time 16:42 16:44 16:46 16:50 17:05 16:33 16:48 17:09 16:52 Start 17:07 1.25 4.39 1.25 4.39 4.39 4.39 4.39 4.39 4.39 2.59 Avg Flow Rate (I/min) PREP=site prep. GLBG=glovebag GREM=gross removal End 4.39 1.25 1.25 4.39 4.39 4.39 39 4.39 4.39 2.59 Checked By: ANALYTICAL METHOD: NIOSH 7400 Start 1.25 4.39 4.39 4.39 4.39 2.59 4.39 4.39 4.39 Pump 403 405 388 386 385 403 348 399 406 Ω 89 A M O 3rd Party Project Oversite BLDG 107 Crawl Space OWA OWA OWA OWA OWA OWA OWA Sample OWA OWA Type Basement Outside Crawl Space IWA=inside work area NAE=regative air exhaust OWA= outside work area CR= clean room BGD=background 1st Floor South Vestibule Location Activity/ 2nd Floor by Room 214 2nd Floor by Room 224 92114-PCM-053 1st Floor North Hallway 92114-PCM-057 1st Floor GSA Offices Basement by Sensors 1500 Bannister Road Outside Pit Entrance 1st Floor Admin Field Blank 92114-PCM-050 | Field Blank 92114-PCM-060 | Neg Air GSA FILTER TYPE: 25mm, 0.8 um MCE PROJECT NAME: 92114-PCM-052 92114-PCM-055 92114-PCM-049 92114-PCM-054 92114-PCM-051 92114-PCM-056 92114-PCM-058 92114-PCM-059 CLIENT NAME: Sample ID Analyzed By: Client ADDRESS: PRS≖personal BLK≃ blank CL=clearance SAMPLE TYPE

The NIOSH 7400 counting rules A does not distinguish between asbestos and non-asbestos fibers.

The NIOSH 7400 method assumes the lowest quantitative fiber density is 7 fibers / 100 fields at 95% confidence level. OCCUTEC's limit of detection (LOD) is equal to 7 fibers/100 fields.

AIHA PAT Lab #: 101266

Samples proceeded by a < sign are calculated using a count of 7 fibers per 100 fields.

This report should not be reproduced except in full.

The estimated intracounter coefficient of variation (CV) for this laboratory is 0.77 (Low Range), 0.27(Medium Range, 0.47 (High Range).

Low Kange = 5 to 20 Fibers, Medium Range = 20 to 50 Fibers, High Range = 50 to 100 Fibers

The estimated interlaboratory CV for the quality control program that this laboratory participates in is 8.4%.

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SAFETY AND ENVIRONMENTAL SOLUTIONS

PCM ANALYSIS OF AIR SAMPLES

4151 N. Mulberry Drive, Suite 275 KANSAS CITY, MO 64116 FAX: (816) 231-5641 PH: (816) 231-5580

									OCCU-TEC Project #:	EC Proje	ect #:	92114	
•									Sample Date:	Date:	9/25/2012		ì
AUDRESS: 1500 Bannister Road	ı								Analysis Date:		9/26/2012		ſ
PROJECT NAME: 3rd Party Project Oversite BLDG 107 Crawl Space	awl Space								Report Date:		10/23/2012		ı
									Rotometer #	er#	412		ļ
omm, 0.8 um MCE	ANALYTICAL METHOD: NIOSH 7400	IL METHO	D: NIOSH	7400					Blank Average	age #	0		ı
Client Activity/	Sample	Pump	Flow	Flow Rate (I/min)	July)	Runnin	Running Time	Total	Volume			Fibers/	Fibers/
T	Type	ō	Start	End	Avg	Start	Stop	Minutes	Liters	Fibers	Fields	mm2	: : :
92114-PCM-71 Field Blank										0	100		
92114-PCM-072 Field Blank										0	100		
92114-PCM-061 2nd Floor by Room 214	OWA	356	1.25	1.25	1.25	15:42	16:08	1466	1832.5	5.5	100	7.01	< 0.002
92114-PCM-062 2nd Floor by Room 224	OWA	358	1.25	1.25	1.25	15:45	16:10	1465	1831.3	8.5	100	10.83	0.002
92114-PCM-063 1st Floor Admin	OWA	405	4.39	4.39	4.39	15:50	22:32	402	1764.8	ı,	100	6.37	× 0.002
92114-PCM-064 1st Floor GSA Offices	OWA	382	4.39	4.39	4.39	15:52	22:30	398	1747.2	9.5	100	12.10	0.003
92114-PCM-065 1st Floor North Hallway	OWA	388	4.39	4.39	4.39	16:00	22:33	393	1725.3	-	100	1.27	< 0.002
	OWA	988	4.39	4.39	4.39	16:01	22:35	394	1729.7	9	100	7.64	< 0.002
92114-PCM-067 Basement Outside Crawl Space	OWA	403	4.39	4.39	4.39	16:03	22:37	394	1729.7	5.5	100	7.01	< 0.002
92114-PCM-068 Basement by Sensors	OWA	406	4.39	4.39	4.39	16:05	22:38	393	1725.3	m	100	3.82	< 0.002
92114-PCM-069 Neg Air	OWA	348	2.59	2.59	2.59	16:07	22:38	391	1012.7	3.5	100	4.46	> 0.003
92114-PCM-070 Outside Pit	OWA	89	4.39	4.39	4.39	16:10	20:25	255	1119.5	9	100	7.64	< 0.003
SAMPLE TYPE			ACTIVITY						RESPIRATOR TYPE	R TYPE			
_			PREP≃stte prep.	prep.		BGLO=bag load out	load out		HM≂half mask		APR≖atr purifying resp.	resp.	Γ
bunk Ovivk- outside work area CK= deen room CL=clearance BGD=background			GLBG≒glovebag GREM≕gross rer	GREM≔gross removal		CLN≕clean up EXC≕excursion	up ilon		FF=full face P=powered	O) IL	FF=full face SA=supplied air P=powered PD=pressure demand	pue	
									100000000000000000000000000000000000000	Solitem tea	eaumy apparatu	á	7
Analyzed By:		_	Checked By:	d By:									

The NIOSH 7400 counting rules A does not distinguish between asbestos and non-asbestos fibers.

The NIOSH 7400 method assumes the lowest quantitative fiber density is 7 fibers / 100 fields at 95% confidence level. OCCUTEC's limit of detection (LOD) is equal to 7 fibers/100 fields.

Samples proceeded by a < sign are calculated using a count of 7 fibers per 100 fields.

This report should not be reproduced except in full.

AitA PAT Lab # : 101266
This report should not be reproduced except in full.
The estimated intracounter coefficient of variation (CV) for this laboratory is 8.77 (Low Range), 9.27(Medium Range, 0.17 (High Range).

Low Range = 5 to 29 Fibers; Medium Range = 20 to 50 Fibers; High Range = 50 to f00 Fibers

The estimated interlaboratory CV for the quality control program that this laboratory participates in is 0.45.

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SATELY AND ENVIRONMENTAL SOLUTIONS

4151 N. Mulberry Drive, Suite 275 KANSAS CITY, MO 64116

PH: (816) 231-5580 FAX: (816) 231-5641

										OCCU-TEC Project #:	C Proje	: # to	92114		
Ċ										Sample Date:		9/26/2012		l	
ADDRESS: 1500 Bannister Road	Road									Analysis Date:	1	9/27/2012		l	
PROJECT NAME: 3rd Party Project Oversite BLDG 107 Crawl Space	of Oversite BLDG 107 Craw	/ Space								Report Date:	ı	10/23/2012		l	
										Rotometer #	#	412		ı	
-ILTER TYPE: 25mm, 0.8 um MCE		ANALYTICAL METHOD: NIOSH 7400	LMETHC	D: NOSH	7400					Blank Average =	ا 10	0		1	
Client	Activity/	Sample	Pump	Flow	Flow Rate (I/min)	in)	Running Time	g Time	Total	Volume	_		Fibers/	Fib	Fibers/
	Location	Type	٥	Start	End	Avg	Start	Stop	- 10		Flbers	Fields	mm2		
- 1											0	100			
											0	100			
92114-PCM-75 2nd Floor by Room 214	30m 214	OWA	356	1.25	1.25	1.25	16:08	16:28	1460	1825	11.5	100	14.65	0.0	0.003
	som 224	OWA	358	1.25	1.25	1.25	16:10	16:31	1461	1826.3	11.5	100	14.65	ō	0.003
92114-PCM-77 1st Floor Admin		OWA	405	4.39	4.39	4.39	16:14	22:35	381	1672.6	80	100	10.19	Ö	0.002
_	Offices	OWA	385	4.39	4.39	4.39	16:15	22:38	383	1681.4	2.5	100	3.18). V	0.002
	Hallway	OWA	388	4.39	4.39	4.39	16:18	22:39	381	1672.6	0	100			
- 1	Vestibule	OWA	386	4.39	4.39	4.39	16:20	22:40	380	1668.2	2.5	100	3.18) O >	0.002
- 1	ide Crawl Space	OWA	403	4.39	4.39	4.39	16:23	22:41	378	1659 4	3.5	100	4.46	v 0.0	0.002
	ensors	OWA A	406	4.39	4.39	4.39	16:25	22:42	377	1655	5	100	6.37	v 0.0	0.002
П		OWA	348	2.59	2.59	2.59	16:27	22:44	377	976.43	9.5	100	12.10	0,0	0,005
92114-PCM-84 Outside Pit		OWA	99	4.39	4.39	4.39	16:30	22:45	375	1646.3	4.5	100	5.73	o v	0.002
															Γ
											ļ				Γ
SAMPLE TYPE				ACTIVITY						RESPIRATOR TYPE	TYPE				
WA=inside work area	NAE=negative air exhaust CR≃ clean room			PREP≃site prep. GLBG≂giovebag	prep. ebag		BGLO=bag load out CLN=clean up	oad out p		HM=half mask FF=full face		APR≖alr purifying resp. SA=supplied alr	.dsa		
CL≂clearance BGD≃background				GREM=gross removal	ss removal		EXC=excursion	ion		P=powered		PD=pressure demand	pus.		
									_	2000	101101	manda Rijiga		٦	

Analyzed By:

The NIOSH 7400 counting rules A does not distinguish between asbestos and non-asbestos fibers.

The NIOSH 7400 method assumes the towest quantitiative fiber density is 7 fibers / 100 fields at 95% confidence level. OCCUTEC's limit or detection (LOD) is equal to 7 fibers/100 fields.

Samples proceeded by a < sign are calculated using a count of 7 fibers per 100 fields.

AIHA PAT Lab # : 101266

Checked By:

This report should not be reproduced except in full.

The estimated intracounter coefficient of variation (GV) for this laboratory is 0.77 (Low Range), 0.27(Medium Range, 0.17 (High Range).

Low Range = 5 to 20 Fibers; Medium Range = 28 to 50 Fibers; High Range = 50 to 100 Fibers

The estimated interlaboratory CV for the quality control program that this laboratory participates in is 0.45.

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SAFETY AND ENVIRONMENTAL STRUTTONS

4151 N. Mulberry Drive, Suite 275 KANSAS CITY, MO 64116 PH: (816) 231-5580 FAX: (816) 231-5641

CHANT NAME.	. «							OCCU-TEC Project #:	oject #:	92114	
	ACO.							Sample Date: 9/27/2012	9/27/2012		ı
ADDRESS.	loud bannister Koad							Analysis Date:	9/28/2012		ļ
TROSECT INAME:	PROJECT NAME: 3rd Party Project Oversite BLDG 107 Cray	07 Crawl Space						Report Date:			l
								Rotometer #	412		ı
FILLER LIPE: ZOMM, 0.8 UM MCE		ANALYTIC/	AL METHO	ANALYTICAL METHOD: NIOSH 7400				Blank Average ≖	0.5		l
Client	Activity/	Sample Pump	Pump	Flow Rate (I/min)	L	Running Time Total Volume	Total	Volume		Fibore/	HI I
Ci clames		,						•		9	2

200		AWALY I CAL MET HOD: NIOSH 7400	LMETHO	O: NIOSH 2	8					Blank Average	H deck	נה			
Client	Activity/	Sample	Pump	Flow	Flow Rate (I/min)	2	Running Time	Time	Total	Total Volume			Fibore/	Eibore/	
Sample ID	Location	Type	۵	Start	- E	A	Start	of St	Minites	i ita	104	46/41) () () () () () () () () () (2	ò
92114-PCM-85 Field Blank	Field Blank									1	-	400	anmz	Ö	8
92114-PCM-86 Field Blank	Field Blank		T	<u> </u>	 	T					- c	200			T
92114-PCM-87	92114-PCM-87 2nd Floor by Room 214	OWA	356	1.25	1.25	1.25	16:30	16:30	1440	1800	2 0	200	11 15	000	Ę
92114-PCM-88	92114-PCM-88 2nd Floor by Room 224	OWA	358	1.25	1.25	1.25	16:31	16:31	1440	1800	5 6	100	11.45	0.000	3 2
92114-PCM-89	92114-PCM-89 1st Floor Admin	OWA	405	4.39	4.39	4.39	16:37	20:54	257	1128.2	8	100	9.55	0.000	10
92114-PCM-90	92114-PCM-90 1st Floor GSA Offices	OWA	385	4.39	4.39	4.39	16:50	20:55	245	1075.6	3.5	100	3.82	< 0.003	3 2
92114-PCM-91	1st Floor North Hallway	OWA	388	4.39	4.39	4.39	16:41	20:58	257	1128.2	2	100	1.91	< 0.003	33
92114-PCM-92	92114-PCM-92 1st Floor South Vestibule	OWA	386	4.39	4.39	4.39	16:43	20:59	256	1123.8	4.5	100	5.10	< 0.003	03
92114-PCM-93	Basement Outside Crawl Space	OWA	403	4.39	4.39	4.39	16:45	21:00	255	1119.5	2.5	100	2.55	< 0.003	8
92114-PCM-94	Basement by Sensors	OWA	406	4.39	4.39	4.39	16:46	21:01	255	1119.5	4.5	100	5.10	< 0.003	8
92114-PCM-95 Neg Air	Neg Air	OWA	348	2.59	2.59	2.59	16:48	21:03	255	660.45	-	100	0.64	< 0.005	02
92114-PCM-96	Outside Pit	OWA	68	4.39	4.39	4.39	16:55	21:04	249	1093.1	5.5	100	6.37	< 0.003	83
						ļ									Ī
	100 (0.00)														
			~ [ACTIVITY						RESPIRATOR TYPE	R TYPE				
PRS=personal WA=in BLK= blank OWA= c	WA=inside work area NAE=negative air exhaust OWA= outside work area CR≃ clean room		<u></u>	PREP≖site prep. GLBG≅olovebad	rep.	ш	BGLO=bag load out	ad out		HM=balf mask	*	APR=air purifying resp.	resp.		
CL=clearance BGD=bg	- 1		<u>ب</u>	GREM=gross removal	s removal	ш	EXC=excursion	on.		P=powered		PD=pressure demand	and		
•										SCEA=Self	contained b	SUBA-seir contained breatning apparatus.	5.	7	

Analyzed By:

Checked By:

The NIOSH 7400 counting rules A does not distinguish between asbestos and non-asbestos fibers.

The NIOSH 7400 method assumes the lowest quantitative fiber density is 7 fibers / 100 fields at 95% confidence level. OCCUTEC's limit of detection (LOD) is equal to 7 fibers / 100 fields. Samples proceeded by a < sign are calculated using a count of 7 fibers per 100 fields.

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This report should not be reproduced except in full.

The estimated Intracounter coefficient of variation (CV) for this laboratory is 9.77 (Low Range), 9.27 (Machium Range, 9.17 (High Range).

Low Nange = 5 to 29 Fibers; Medium Range = 20 to 50 Fibers; High Range = 50 to 100 Fibers

The estimated interlaboratory CV for the quality control program that this laboratory participates in Is 0.45.

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-		SAFLIY AND ENGRONMENTAL SGLUTIONS
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4151 N. Mulberry Drive, Suite 275 KANSAS CITY, MO 64116 PH: (816) 231-5580 FAX: (816) 231-5641

OF JENIT MANAE.	ć									OCCU-TEC Project #:	EC Proj	ect#:	92114		
אייייין אייייין אייייין אייייין אייייין אייייין אייייין אייייין אייייין אייייין אייייין אייייין אייייין אייייי		ı								Sample Date:	Date:	9/28/2012		l	
ADDRESS:	1500 Bannister Road	ì								Analysis Date:	Date:	10/1/2012		ı	
PROJECT NAME:	PRUJECT NAME: 3rd Party Project Oversite BLDG 107 Crawl Space	wi Space								Report Date:	ate:	10/23/2012		ı	
# # # # # # # # # # # # # # # # # # #	200									Rotometer #	er#	412		ļ	
TILIER LIPE: ZOMM, 0.8 UM MCE		ANALYTICAL METHOD: NIOSH 7400	AL METHO	D: NIOSH	7400					Blank Average =	age =	0		I	
Cilent	Activity/	Sample	Pump	Flow	Flow Rate (I/min)	in)	Running Time	Time	Total	Volume			Fibers/	Fibers/	_
Sample ID	Location	Type	<u>e</u>	Start	End	Avg	Start	Stop	Minutes	Liters	Fibers	Fields	200	!	_
92114-PCM-97	Field Blank										0	100		3	_
92114-PCM-98	Field Blank										0	190			_
															•
92114-PCM-99	1st Floor Admin	OWA	405	4.39	4.39	4.39	17:30	22:45	315	1382.9	6.5	100	8.28	< 0.002	_
92114-PCM-100	92114-PCM-100 1st Floor GSA Offices	Α V	385	4.39	4.39	4.39	17:32	22:46	314	1378.5	8.5	100	10.83	0,003	_
92114-PCM-101	1st Floor North Hallway	OWA	388	4.39	4.39	4.39	17:34	22:48	314	1378.5	4.5	100	5.73	< 0.002	_
92114-PCM-102	92114-PCM-102 1st Floor South Vestibule	OWA	386	4.39	4.39	4.39	17:35	22:51	316	1387.2	2.5	100	3.18	< 0.002	
92114-PCM-103	Basement Outside Crawl Space	OWA	403	4.39	4.39	4.39	17:38	22:54	316	1387.2	6.5	100	8.28	< 0.002	~~~
92114-PCM-104	92114-PCM-104 Basement by Sensors	OWA	406	4.39	4.39	4.39	17:39	22:55	316	1387.2	2	100	2.55	< 0.002	~~~~
92114-PCM-105 Neg Air	Neg Air	OWA	348	2.59	2.59	2.59	17:40	22:56	316	818.44	8.5	100	10.83	0.005	·
92114-PCM-106 Outside Pit	Outside Pit	OWA	89	4.39	4.39	4.39	17:42	22:52	310	1360.9	5.5	100	7.01	< 0.003	_
92114-PCM-107	1st Floor Room 110	OWA	349	2.59	2.59	2.59	17:44	22:49	305	789.95	0	100			_
															_
,	***************************************														,
SAMPLE TYPE				ACTIVITY						RESPIRATOR TYPE	R TYPE				
je j	ļ			PREP≔site prep.	prep.		BGLO=bag load out	oad out		HM=half mask		APR=air purifying resp.	resp.		
3LK= blank OWA≂ o SL≑dearance BGD=ba	OWA≂ outside work area CR≕ clean room BGD≂background			GLBG=glovebag GREM≐gross removal	rebag ss removal		CLN≍clean up EXC=excursion	4.5		FF=full face P=powered		SA=supplied air PD=pressure dem			
										SCBA≐seif contained	contained	preaming apparatus.	5.	_	
Analyzed By:				Checked By:	d By:										
							-								

The NIOSH 7400 counting rules A does not distinguish between asbestos and non-asbestos fibers.

The NIOSH 7400 method assumes the lowest quantitative fiber density is 7 fibers / 100 fields at 95% confidence level. OCCUTEC's limit of detection (LOD) is equal to 7 fibers/100 fields.

AIHA PAT Lab #: 101266

Samples proceeded by a < sign are calculated using a count of 7 fibers per 100 fields. This report should not be reproduced except in full.

The estimated intracounter coefficient of variation (CV) for this laboratory is 0.77 (Low Range), 0.27(Medium Range, 0.17 (High Range).

Low Range ≈ 5 to 20 Fibers; Medium Range ≈ 20 to 50 Fibers; High Range ≈ 50 to 100 Fibers. The estimated interlaboratory CV for the quality control program that this laboratory participates in is 0.46.

fishare/masters/forms\asbestos\permaster.xds

SAFETY AND ENVIRONMENTAL SQUITTIONS

4151 N. Mulberry Drive, Suite 275 KANSAS CITY, MO 64116 PH: (816) 231-5580 FAX: (816) 231-5641

		OCCU-TEC Project #:	ject #: 92114	4
CLIEN NAME:	GSA	Sample Date:		
ADDEROS.	7 C C C C C C C C C C C C C C C C C C C	כמווויים במנכי וטי ויצטוק	2102/1/01	
יסטעטער	SUU Bannister Road	Analysis Date: 10/2/2012	10/2/2012	
DDO INCH MAND	Sand Double Designation of the Company of the Compa		10/2/2012	
- NOSEC INTRICE.	NOTECH INCIDENT. SIGNATOR CONFISION FINE BLUG TO Crawl Space	Report Date: 10/23/2012	10/23/2012	
				l
		Rotometer #	412	
FIL. I ER 1YPE: 25mm, 0.8 um MCE	UM MCE ANALYTICAL METHOD: NIOSH 7400	Blank Average ≈	С	

FILTER TYPE: 25mm, 0.8 um MCE	ICE	ANALYTICAL METHOD: NIOSH 7400	AL METHO	D: NIOSH	7400					Blank Average =	i age	c		1
Client	Activity/	Sample	Pump	Flow	Flow Rate (I/min)	Ē	Running Time	g Time	Total	Volume	,		Fibers/	Fibers/
Sample ID	Location	Type	٥	Start	End	Avg	Start	Stop	Minutes	Liters	Fibers	Fields	mm2	
92114-PCM-108 Field Blank	eld Blank										0	100		3
92114-PCM-109 Field Blank	eld Blank										0	100		
92114-PCM-110 1st Floor Admin	t Floor Admin	OWA	405	4.39	4.39	4.39	16:50	22:42	352	1545.3	က	100	3.82	< 0.002
92114-PCM-111 1st Floor GSA Offices	t Floor GSA Offices	OWA	385	4.39	4.39	4.39	16:51	22:43	352	1545.3	5	100	6.37	< 0,002
92114-PCM-112 1st Floor North Hallway	t Floor North Hallway	OWA	388	4.39	4.39	4.39	16:52	22:44	352	1545.3	2	100	2.55	< 0.002
92114-PCM-113 1s	92114-PCM-113 1st Floor South Vestibule	OWA	386	4.39	4.39	4 39	16:55	22:45	350	1536.5	3	100	3.82	< 0.002
92114-PCM-114 Ba	92114-PCM-114 Basement Outside Crawl Space	OWA	403	4.39	4.39	4.39	16:57	22:47	350	1536.5	3	100	3.82	< 0.002
92114-PCM-115 Basement by Sensors	sement by Sensors	OWA	406	4.39	4.39	4.39	16:58	22:48	350	1536.5	5.5	100	7.01	< 0.002
92114-PCM-116 Neg Air	g Air	OWA	348	2.59	2.59	2.59	17:00	22:50	350	906.5	2	100	2.55	> 0.004
92114-PCM-117 Outside Pit	ıtside Pit	OWA	68	4.39	4.39	4.39	17:03	22:58	355	1558.5	5	100	6.37	< 0.002
92114-PCM-118 1st Floor Room 110	t Floor Room 110	OWA	349	2.59	2.59	2.59	17:10	22:46	336	870.24	ω	100	10.19	0.005
	a contraction of the contraction													
SAMPLE TYPE				ACTIVITY						RESPIRATOR TYPE	OR TYPE			
PRS≖personal IWA≖insIde work area BLK= blank OWA≃ outside work area	work area NAE≃negative air exhaust e work area CR≭ clean room			PREP=site prep. GLBG=qlovebad	prep. ebad	w 0	BGLO=bag load out CLN=clean up	oad out to		HM=half mask FF=full face		APR=air purifying resp. SA=supplied air	.dsa	<u> </u>
CL=clearance BGD=background	pnno			GREM=gross removal	ss removal	u.	EXC≃excursion	ion		P-powered		PD=pressure demand	and	
										SCBA=Self	contained o	SUBA-Self contained preathing apparatus.	,,	7

SAMPLE TYPE			ACTIVITY	
PRS=personal BLK= blank CL=clearance	IWA=inside work area NAE=negative air OWA= outside work area CR= clean room BGD=background	PRS=personal IWA=inside work area NAE=negative air exhaust BLK= blank OWA= outside work area CR= clean room CL=cleanance BGD=bankground	PREP=site prep. GLBG=glovebag	S C BGC
1				
Analyzed By:	;		Checked By:	وينست والمراور والمراور والمراور والمراور

The NIOSH 7400 method assumes the lowest quantilative fiber density to 7 fibers / 100 fields at 95% confidence level. OCCUTEC's limit of detection (LOD) is equal to 7 fibers 100 fields. The NIOSH 7400 counting rules A does not distinguish between asbestos and non-asbestos fibers.

AlHA PAT Lab #: 101266

Samples proceeded by a < sign are calculated using a count of 7 fibers per 100 fields. This report should not be reproduced except in full.

The estimated intracounter coefficient of variation (CV) for this laboratory is 0.77 (Low Range), 0.27(Mexitum Range, 0.17 (High Range).

Low Range = 5 to 20 Fibers; Medium Range = 29 to 50 Fibers; Migh Range = 50 to 100 Fibers

The estimated interlaboratory CV for the quality control program that this laboratory participates in is 0.45.

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SALELY AND ENVIRONMENTAL SCHUTTONS

4151 N. Mulberry Drive, Suite 275 KANSAS CITY, MO 64116 PH: (816) 231-5580

FAX: (816) 231-5641

< 0,002 92114 Fibers/ 14.65 15.92 3.82 7.64 7.64 8.28 3.82 6.37 8.92 mm2 APR=air purifying resp. SA=suppiled air P≃powered PD=pressure demand s∪dA=seir contained orearing apparatus. 412 10/3/2012 10/23/2012 10/2/2012 100 9 56 8 90 100 100 8 100 100 100 OCCU-TEC Project #: Fibers Sample Date: Analysis Date: RESPIRATOR TYPE Blank Average = 6.5 Report Date: 0 Rotometer # ဖ 9 ന 4 S HM=half mask FF=full face 1439.9 1439.9 1435.5 1751.3 1426.8 1426.8 1753,8 1439.9 839,16 1448.7 Volume Liters Minutes Total 1401 1403 328 327 325 325 324 330 22:28 15:57 22:30 22:35 16:00 22:29 22:31 22:32 22:33 22:34 BGLO≂bag toad out CLN=clean up EXC=excursion Stop Running Time 17:02 17:05 16:36 17:10 Start 17:04 17:07 17:08 17:00 17:01 16:37 1.25 1.25 4.39 4.39 4.39 4.39 4.39 4.39 2,59 4.39 Avg Flow Rate (I/min) PREP=site prep. GLBG≂glovebag GREM=gross removal 4.39 2.59 1.25 125 4.39 4,39 4.39 4.39 4.39 4.39 End ANALYTICAL METHOD: NIOSH 7409 2.59 4.39 4.39 4.39 4.39 Start 4.39 4.39 4.39 Pump 385 386 406 348 404 405 388 403 89 ₽ Sample 3rd Party Project Oversite BLDG 107 Crawl Space OWA OWA OWA Ø₩ A OWA **₹** Ø. Ø. ØWA OWA Type Basement Outside Crawl Space IVA=inside work area NAE=negative alr exhaust OWA= outside work area CR= clean room BGD=background 1st Floor South Vestibule Activity/ Location 2nd Floor by Room 214 92114-PCM-122 | 2nd Floor by Room 224 1st Floor North Hallway Basement by Sensors 1st Floor GSA Offices 1500 Bannister Road 92114-PCM-123 | 1st Floor Admin Field Blank Outside Pit Field Blank Neg Air FILTER TYPE: 25mm, 0.8 um MCE GSA 92114-PCM-120 92114-PCM-125 92114-PCM-128 92114-PCM-129 PROJECT NAME: 92114-PCM-126 92114-PCM-119 92114-PCM-121 92114-PCM-124 92114-PCM-130 92114-PCM-127 CLIENT NAME: Sample ID Client ADDRESS: PRS≃personal BLK≃ blank CL≕clearance SAMPLE TYPE

0,004

0.002

0.002

0.002

0.003

0.003 0.002

Fibers/

The NIOSH 7400 counting rules A does not distinguish between asbestos and non-asbestos fibers.

Analyzed By:

The NIOSH 7400 method assumes the lowest quantitative fiber density is 7 fibers / 100 fields at 95% confidence level. OCCUTEC's limit of detection (LOD) is equal to 7 fibers/100 fields.

Checked By:

Samples proceeded by a < sign are calculated using a count of 7 fibers per 100 fields.

This report should not be reproduced except in full.

A!HA PAT Lab #: 101266

The estimated infracounter coefficient of variation (CV) for this laboratory is 0.77 (Low Range), 0.27(Medium Range, 0.17 (High Range),

The estimated interlaboratory CV for the quality control program that this laboratory participates in is 9.48. Low Range = 5 to 20 Fibers; Medium Range = 28 to 50 Fibers; High Range = 50 to 100 Fibers

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OCCU-TEC	SAFETY AND ENVIRONMENTAL SCLUTIONS
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4151 N. Mulberry Drive, Suite 275 KANSAS CITY, MO 64116 PH: (816) 231-5580 FAX: (816) 231-5641

										OCCU-TEC Project #:	EC Proje	oct # :	92114		
ADDITION IN A SINGLE	USA Tool	_								Sample Date:)ate:	10/3/2012		!	
ADDRESS:	1500 Bannister Road	_								Analysis Date:	1	10/4/2012)	
PROJECT NAME:	PROJECT NAME: 3rd Party Project Oversite BLDG 107 Crawl Space	wl Space								Report Date:		10/23/2012		i	
										Rotometer #	# 15	412		1	
FILTER TYPE: 25mm, 0.8 um MCE		ANALYTICAL METHOD: NIOSH 7400	L METHO	D: NIOSH	7400					Blank Average ≈	ge #	0.5		1	
Client	Activity/	Sample	-dumd	Flow	Flow Rate (I/min)	in)	Running Time	g Time	Totai	Volume	<u></u>		Fibers/	Fibers/	
Sample ID	Location	Type	٥	Start	End	Avg	Start	Stop	Minutes	Liters	Fibers	Fields	, mm	2	
92114-PCM-131	Field Blank									t	0	100		3	т
92114-PCM-132 Field Blank	Field Blank										-	100			Т
92114-PCM-133	92114-PCM-133 2nd Floor by Room 214	OWA	356	1.25	1,25	1.25	16:36	15:59	1403	1753.8	4.5	100	5.10	< 0.002	Т
92114-PCM-134	92114-PCM-134 2nd Floor by Room 224	OWA	350	1.25	1.25	1.25	16:37	16:00	1403	1753.8	9.5	100	11.46	0.003	1
92114-PCM-135 1st Floor Admin	1st Floor Admin	OWA	405	4.39	4.39	4.39	17:00	22:49	349	1532.1	9	100	7.01	< 0.002	T
92114-PCM-136	92114-PCM-136 1st Floor GSA Offices	OWA	385	4.39	4.39	4.39	17:01	22:51	350	1536.5	5.5	100	6.37	< 0.002	т-
92114-PCM-137	92114-PCM-137 1st Floor North Hallway	OWA	388	4.39	4.39	4.39	17:02	22:55	353	1549.7	7.5	100	8.92	0.002	Т
92114-PCM-138	92114-PCM-138 1st Floor South Vestibule	OWA	386	4.39	4.39	4.39	17:04	22:56	352	1545.3	9	100	7.01	< 0.002	1
92114-PCM-139	92114-PCM-139 Basement Outside Crawl Space	OWA	403	4.39	4.39	4.39	17:07	22:22	315	1382.9	2	100	1.91	< 0.002	П
92114-PCM-140	Basement by Sensors	OWA	406	4.39	4.39	4.39	17:08	22:23	315	1382.9	5.5	100	6.37	< 0.002	1
92114-PCM-141 Neg Air	Neg Air	OWA	348	2.59	2.59	2.59	17:10	22:24	314	813.26	3.5	100	3.82	× 0.004	т
92114-PCM-142 Outside Pit	Outside Pit	OWA	68	4.39	4.39	4.39	17:05	22.50	345	1514.6	8.5	100	10.19	0.003	
															П
															т-
															т
						ļ									Т
SAMPLE TYPE				ACTIVITY						RESPIRATOR TYPE	R TYPE				1
PRS≠personal IWA=ins BLK≈ blank OWA= o Cl =cfearance BGD≃ha	IWA=inside work area NAE=negative air exhaust OVA= outside work area GR= clean room			PREP=site prep. GLBG=glovebag	prep. rebag	ш U 1.	BGLO=bag load out CLN≂clean up	oad out Jp		HM=half mask FF=full face	* < w t	APR=air purifying resp. SA=supplied air	dse.		
	CAGIUMITA			GREM≅gross removal	ээ геттоуаг		EXC=excursion	5		P=powered aubA=self co	r ontained of	P⊐powered PD≂pressure demand SCBA≖seit contained ofeatining apparatus.	and s.		

The NIOSH 7400 counting rules A does not distinguish between asbestos and non-asbestos fibers,

Analyzed By:

The NIOSH 7400 melthod assumes the lowest quantitative fiber density is 7 fibers / 100 fields at 85% confidence level. OCCUTECs limit of detection (LOD) is equal to 7 fibers/100 fields.

Checked By:

Samples proceeded by a < sign are calculated using a count of 7 fibers per 100 fields.

This report should not be reproduced except in full.

This report should not be reproduced except in full.

The estimated intracounter coefficient of variation (CV) for this laboratory is 8.77 (Low Range), 9.27(Medium Range, 0.17 (High Range).

Low Range = 5 to 20 Pibers, Medium Range = 20 to 56 Pibers; High Range = 50 to 100 Fibers

The estimated interlaboratory CV for the quality control program that this laboratory participates in is 8.45.

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SAFETY AND ENVIRONMENTAL SOLUTIONS

PCM ANALYSIS OF AIR SAMPLES

4151 N. Mulberry Drive, Suite 275 KANSAS CITY, MO 64116 PH: (816) 231-5580

FAX: (816) 231-5641

10/23/2012

Rotometer #

10/4/2012 10/5/2012

OCCU-TEC Project #: Analysis Date: Sample Date: Report Date: 3rd Party Project Oversite BLDG 107 Crawl Space 1500 Bannister Road GSA PROJECT NAME: CLIENT NAME: ADDRESS:

Fibers/ 0.002 0.002 0.002 0.002 0.002 0.002 0.003 0.002 0.002 v ٧ ٧ v v Fibers/ 5.10 0.64 2.55 4.46 **ПП**2 0.64 4.46 0.0 1.27 412 Fields 100 8 100 5 8 9 용 100 9 Fibers 4.5 7 <u>ہ</u> تن 4 3 Ω. Blank Average 2107.2 1235.4 2111.6 2107.2 2102.8 2102.8 2111.6 1615 Liters Volume 2094 Minutes 1292 Totai 479 480 480 479 477 481 481 16:16 22:56 22:58 22:59 23:00 22:55 23.02 22:57 23:00 Stop Running Time 15:01 Start 14:54 14:58 14:50 14:51 14:55 14:57 15:00 15:03 15:05 4.39 4.39 1.25 1.25 4.39 4.39 4.39 4.39 2.59 4,39 Avg Flow Rate (I/min) 1.25 4.39 4.39 4.39 2.59 4.39 4.39 4.39 4.39 End ANALYTICAL METHOD: NIOSH 7400 Start 1.25 4.39 4.39 4.39 4.39 4.39 4.39 2.59 4.39 Pump 356 350 405 385 386 403 348 388 406 ₽ 89 OWA OWA Sample OWA A O M V V OWA Ø V V AMO AW0 OWA Type 92114-PCM-151 | Basement Outside Crawl Space 1st Floor South Vestibule Activity/ Location 2nd Floor by Room 214 92114-PCM-146 | 2nd Floor by Room 224 92114-PCM-149 | 1st Floor North Hallway 92114-PCM-148 | 1st Floor GSA Offices Basement by Sensors 92114-PCM-147 1st Floor Admin Field Blank 92114-PCM-154 |Outside Pit 92114-PCM-143 | Field Blank Neg Air FILTER TYPE: 25mm, 0.8 um MCE 92114-PCM-144 92114-PCM-145 92114-PCM-150 92114-PCM-152 92114-PCM-153 Sample ID Client

OWA= outside work area OR= clean room BGD=background PRS≃personal BLK= blank CL≐clearance SAMPLE TYPE

BGLO=bag load out CLN≃clean up EXC=excursion PREP=site prep. GLBG=glovebag GREM=gross removal

ACTIVITY

Checked By:

APR=air purifying resp. SA=supplied air PD=pressure demand contained pressure demand HM=half mask FF≕full face P=powered

RESPIRATOR TYPE

The NIOSH 7400 counting rules A does not distinguish between asbestos and non-asbestos fibers.

Analyzed By:

The NIOSH 7400 method assumes the lowest quantitative fiber density is 7 fibers / 100 fields at 95% confidence level. OCCUTEC's limit of detection (LOD) is equal to 7 fibers/100 fields.

A!HA PAT Lab #: 101266

Samples proceeded by a < sign are calculated using a count of 7 fibers per 100 fields.

This report should not be reproduced except in full.

The estimated intracounter coefficient of variation (CV) for this laboratory is 0.77 (Low Range), 9.27(Medium Range, 9.17 (High Range).

Low Range = 5 to 29 Fibers; Medium Range = 20 to 50 Fibers; Mgh Range = 50 to 190 Fibers

The estimated interlaboratory CV for the quality control program that this laboratory participates in is 0.4%.

* = Pump stopped; aborted sample

SALLTY AND ENVIRONMENTAL SOLUTIONS

PCM ANALYSIS OF AIR SAMPLES

4151 N. Mulberry Drive, Suite 275 KANSAS CITY, MO 64116 PH: (816) 231-5580 FAX: (816) 231-5641 92114

OLITINIT NIAME.		OCCU-TEC Project #;	
ADDOTO:	ACO.	Sample Date: 10/5/2012	10/5/2012
	DOU Bannister Roa	Analysis Date: 10/8/2012	10/8/2012
PROJECT NAME:	3rd Party Project Oversite BLDG 107 Crawl Space	Report Date: 10/23/2012	10/23/2012

Fibers/ 0.004 0.002 0.002 0,002 0.002 0.004 0.004 0.004 0.005 0.003 v Fibers/ 10,19 16.56 15.92 8.28 10.83 **E**E 3.82 3.82 14.0 6.37 412 Fields 100 100 5 00 9 100 9 100 100 100 100 50 0 Fibers α Ω 6.5 , 5 0 m œ Rotometer # Blank Average 890.96 1593.6 937.58 1589.2 893.55 Volume 1584,8 Liters 1598 1606.7 1598 Minutes Total 362 364 345 363 364 366 344 362 361 362 Stop 22:34 22:35 22:45 Running Time Start 16:44 16:26 16:31 16:23 16:24 16:30 16:32 16:39 16:44 4.39 4,39 4.39 4.39 2.59 4.39 2.59 4.39 4 39 2.59 Αvg Flow Rate (I/min) End 4.39 4,39 4.39 4,39 2.59 4.39 2,59 ANALYTICAL METHOD: NIOSH 7400 Start 2,59 4.39 4.39 4.39 4.39 2.59 Pump 385 388 386 403 406 348 349 350 89 ≘ OWA Sample OWA δWΑ Α OWA Ø Ø OWA O **∀** 0 V.VO owa o ₹ MO Type Basement Outside Crawl Space 92114-PCM-160 1st Floor South Vestibule Activity/ Location 92114-PCM-159 | 1st Floor North Hallway Basement by Sensors 92114-PCM-158 1st Floor GSA Offices 92114-PCM-166 1st Floor Room 114 92114-PCM-165 1st Floor Room 111 1st Floor Admin Field Blank 92114-PCM-156 Field Blank **Outside Pit** 92114-PCM-163 | Neg Air FILTER TYPE: 25mm, 0.8 um MCE 92114-PCM-161 92114-PCM-162 92114-PCM-164 92114-PCM-155 92114-PCM-157 Sample ID Client SAMPLE TYPE

	.;	Analyzed By:
	BGD=background	CL.≂clearance
. CR= dean room	s area	BLK= blank
NAE=negative air exhaust	IWA=inside work area NAE	PRS=personal

BGLO=bag load out CLN=clean up EXC=excursion PREP=site prep. GLBG=glovebag GREM=gross removal Checked By:

ACTIVITY

APR=air purifying resp. SA=supplied air

RESPIRATOR TYPE

HM=haff mask FF=full face

P=powered PD=pressure demand

The NIOSH 7400 counting rules A does not distinguish between asbestos and non-asbestos fibers.

AIHA PAT Lab #: 101266

The NIOSH 7400 method assumes the lowest quantitative fiber density is 7 fibers / 100 fields at 95% confidence level. OCCUTEC's limit of detection (LOD) is equal to 7 fibers / 100 fields. Samples proceeded by a < sign are calculated using a count of 7 fibers per 100 fields.

This report should not be reproduced except in full

Low Range = 8 to 20 Fibers; Medium Range = 20 to 50 Fibers; High Range = 50 to 160 Fibers

The estimated Intracounter coefficient of variation (CV) for this laboratory is 0.77 (Low Range), 0.27 (Wedium Range, 0.17 (High Range).

The estimated interlaboratory CV for the quality control program that this laboratory participates in is 9.4%

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SALIY AND ENVIRONMENTAL SCHOOLOUS

0.002 0.002 0,004 Fibers/ 0.002 0.002 0.003 < 0.002 v v 92114 Fibers/ 10,19 12.74 2.55 4.46 **Ш**2 9.55 6.37 3.82 4151 N. Mulberry Drive, Suite 275 412 KANSAS CITY, MO 64116 10/9/2012 10/23/2012 10/8/2012 Fields 56 100 5 100 9 8 100 5 8 OCCU-TEC Project #: FAX: (816) 231-5641 PH: (816) 231-5580 Fibers Analysis Date: Sample Date: ผ่ 3.5 Report Date: 9 0 ю 0 m œ Rotometer # Blank Average 1821.9 1817.5 1817.5 1817.5 1821.9 1826.2 1072.3 1069.7 Volume Liters Minutes 415 Total 416 414 414 413 414 414 14:00 14:03 14:05 14:09 14:10 14:06 Stop 14.01 Running Time Start 7:09 7:09 7:15 7:06 7:08 4.39 4.39 Avg 4.39 4.39 4.39 4.39 2.59 2.59 Flow Rate (I/min) 4.39 2.59 End 4.39 4.39 4.39 4.39 ANALYTICAL METHOD: NIOSH 7400 Start 4,39 4.39 4.39 4.39 4.39 4.39 2.59 2.59 Ритр 405 385 388 386 406 350 403 349 ₽ 3rd Party Project Oversite BLDG 107 Crawl Space OWA OWA Sample OWA OWA ØW O OWA OWA ĕ Type Basement Outside Crawl Space 92114-PCM-172 1st Floor South Vestibule Location Activity/ 92114-PCM-171 1st Floor North Hallway Basement by Sensors 92114-PCM-170 | 1st Floor GSA Offices 1500 Bannister Road 92114-PCM-176 1st Floor Room 114 92114-PCM-175 | 1st Floor Room 111 1st Floor Admin Field Blank Field Blank GSA FILTER TYPE: 25mm, 0.8 um MCE PROJECT NAME: 92114-PCM-173 92114-PCM-174 92114-PCM-169 92114-PCM-167 92114-PCM-168 CLIENT NAME: Sample ID Client ADDRESS:

IWA=inside work area NAE=negative air exhaust OWA= outside work area CR= clean room BGD=background Analyzed By: PRS≃personal BLK= blank Ct.=clearance

SAMPLE TYPE

PREP≔site prep. GLBG≖glovebag GREM≕gross removal Checked By:

HM≐haif mask APR=air purifying resp. FF=fuli face SA=suppiled air P=powered P⊃pressure demand SU=A=ser contained preaming apparatus.

BGLO≖bag load out CLN=clean up EXC≈excursion

RESPIRATOR TYPE

The NIOSH 7400 counting rules A does not distinguish between asbestos and non-asbestos fibers.

The NIOSH 7400 method assumes the lowest quantitative fiber density is 7 fibers / 100 fields at 95% confidence level. OCCUTEC's limit of detection (LOD) is equal to 7 fibers/100 fields. Samples proceeded by a < sign are calculated using a count of 7 fibers per 100 fields.

AIHA PAT Lab #: 101266

This report should not be reproduced except in full.

The estimated intracounter coefficient of variation (CV) for this laboratory is 6.77 (Low Range), 0.27(Wedium Range, 0.17 (High Range).

Low Range = 5 to 20 Fibers, Medium Range = 20 to 50 Fibers, High Range = 50 to 100 Fibers

The estimated interlaboratory CV for the quality control program that this laboratory participates in is ₺.₳₺.

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Appendix D

Asbestos Clearance Reports (TEM)



4151 North Mulberry Drive, Suite 275 Kansas City, Missouri 64116 (816) 231-5580

Toll Free: (800) 950-1953 Fax: (816) 231-5641

1500 E. Bannister ADDRESS:

CLIENT NAME:

PROJECT NAME: GSA 3rd Party Air Monitoring and Oversite

OCCU-TEC Project #: 92114 Sample Date:

10/10/2012 10/23/2012 10/9/2012 Analysis Date: Report Date:

Concentration Structures/cc

Structures/mm²

Asbestos

Asbestos Stuctures

Liters Volume

Minutes Total

<0.0046

<0.0045 <0.0045

<0.0046

~55 **~**22 <22 <22

1871.1 None Detected

270

None Detected 1885 | None Detected 1885 | None Detected 1891.9 None Detected 2023.6 None Detected 1982 | None Detected 1988.9 None Detected

1878

271

272

<0.0045

<22

273

272

286

287

292

<22 <22 <22

<0.0042 < 0.0043 <0.0043

Rotometer #

14:46 15:10 15:12 14:30 14:42 14:48 14:44 15:14 Stop Running Time Start 10:10 10:14 10:15 10:24 10:25 10:11 10:12 10:22 6.93 6.93 6.93 6.93 6.93 6.93 6.93 6.93 Avg Flow Rate (I/min) End 6.93 6.93 6.93 6.93 6.93 6.93 6.93 6.93 Start 6.93 6.93 6.93 6.93 6.93 6.93 6.93 6.93 386 Pump 399 405 406 385 404 388 403 ₽ 뽔 吊 짂 Sample Type ರ 겅 ᄗ 김 김 건 겁 겁 Basement OWA Crawl Space Northend of Crawl Space Southend of Crawl Space Southend of Crawl Space Northend of Crawl Space Center of Crawl Space 1st FL South Vestibule Basement by Sensors Location Activity/ **Outside Blank** Inside Blank Field Blank FILTER TYPE: 25mm, 0.45 um 92114-014 92114-015 92114-016 92114-018 92114-019 92114-023 92114-017 92114-020 92114-021 92114-022 92114-024 Sample ID Client

SAMPLE TYPE

WA=inside work area OWA= outside work area OCL=outside clearance NAE=negative air exhaust ICL≂inside clearance BGD≂background PRS=personal BLK= blank

BGLO=bag load out CLN=clean up EXC=excursion PREP=site prep. GLBG=glovebag GREM=gross removal

ACTIVITY

RESPIRATOR TYPE HM≃half mask FF≃full face

APR≃air purifying resp. SA≐suppiled air PD≃pressure demand P=powered SCBA=self contained breathing apparatus

Sampled By: Pat Garcia

Appendix E

Laboratory Reports (TEM)



September 25, 2012

Jeff Smith OCCU-TEC INC. 6501 E. Commerce Suite 230 Kansas City, MO 64120-

Bureau Veritas Work Order No. A1209155

Reference: 92114-BLDG 107 CRAWL SPACE

Dear Jeff Smith:

Bureau Veritas North America, Inc. received 10 samples on September 19, 2012 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 sixty-day holding period, 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 the report, please contact the analyst whose name appears on the report or myself at (770) 499-7701.

Sincerely,

Jon Perrenoud

Senior Microscopist

Electronic signature authorized through password protection

Bureau Veritas North America, Inc.

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

CASE NARRATIVE

Date: 25-Sep-12

CLIENT:

OCCU-TEC INC.

Project:

92114-BLDG 107 CRAWL SPACE

Work Order No A1209155

ANALYTICAL METHOD FOR AIRBORNE ASBESTOS FIBERS USING TRANSMISSION ELECTRON MICROSCOPY (TEM) BY THE AHERA METHOD

The results of this report relate only to the samples listed in the body of this report.

Unless otherwise noted below, the following statements apply: 1) all samples were received in acceptable condition, 2) all quality control results associated with this sample set were within acceptable limits and/or do not adversely affect the reported results and 3) the industrial hygiene results have not been blank corrected.

Upon receipt in the laboratory, filters are transferred to a glass slide with a drop of dimethyl formamide/acetic acid clearing solution. After clearing, samples are partially ashed in a plasma asher. The filters are then carbon coated in a vacuum evaporator. Portions of the cleared/ashed/coated filters are excised and placed on 200-mesh copper TEM grids in a wick-type solutional washer containing 100% acetone.

Two grids are placed consecutively in the TEM for examination. An equal number of openings are examined on each grid at 15,000X magnification. Asbestos structures containing fibers which meet a >5:1 length:width aspect ratio and a minimum length of 0.5 micrometers are identified using morphology, selected area electron diffraction, and energy-dispersive x-ray spectroscopy. Fibers are classified by structure type, are sized (length and width), and are identified as chrysotile, amphibole, ambiguous, or non-asbestos. Results are reported as total asbestos structures per square millimeter of filter and asbestos structures per cubic centimeter of air (asbestos structures/cc). The Kennesaw, Georgia laboratory is accredited by NVLAP –Lab Code 101125-0.

For clearance of a work area in schools (k-12) the requirement is that the average of the results of the five inside samples is <70 str/mm2 assuming an analytical sensitivity of <0.005 structures/cubic centimeter.

The test report shall not be reproduced, except in full, without written approval of the laboratory. In addition, the report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

References



CLIENT:

OCCU-TEC INC.

Project:

92114-BLDG 107 CRAWL SPACE

Work Order No A1209155

USEPA. 1987. Asbestos Hazard Emergency Response Act. Appendix A to 40 CFR 763, Subpart E.

Washington: GPO. (AHERA protocol).



Client: OCCU-TEC INC.

Client Reference No.: 92114-BLDG 107 CRAWL SPACE

Work Order No.: A1209155

Date: 25-Sep-12

Analytical Method: TEM AHERA

Sample Type: Air

Date Received:

9/19/2012 10:49:00 AM

Report Date:

9/25/2012 4:12:51 PM

Grid Opening Size:

0.0112 mm²

	•	Reporting	Total	Stru	etures Counte	d		Total /	Asbestos			5 %
Lab Sample No.	Client Sample ID	Lìmit (s/mm²)	Asbestos (s/mm²)	Chrysotile	Amphibole	Total	Chrysotile (s/cc)	Amphibole (s/cc)	Total (s/cc)	Sensitivity (s/cc)	Confid Low	ence Limit High
A1209155-001A	004			· · · · · · · · · · · · · · · · · · ·								
		18	< 18	0	0	0	< 0.0044	< 0.0044	< 0.0044	0.0044	0	< 0.019
A1209155-002A	005										, .,	
		18	< 18	0	0	0	< 0.0044	< 0.0044	< 0.0044	0.0044	0	< 0.019
A1209155-003A	006											
		18	< 18	0	0	0	< 0.0045	< 0.0045	< 0.0045	0.0045	0	< 0.020
A1209155-004A	007											
		22	< 22	0	0	0	< 0.0050	< 0.0050	< 0.0050	0.0050	0	< 0.022
A1209155-005A	008											
		18	< 18	0	0	0	< 0.0047	< 0.0047	< 0.0047	0.0047	0	< 0.021
A1209155-006A	009									1		
		18	< 18	0	0	0	< 0.0047	< 0.0047	< 0.0047	0.0047	0	< 0.021

MCEF: Mixed Cellulose Ester Filter

s/mm²: Structures per square millimeter

"--": No Results (Air Volume is 0)

s/cc: Structures per cubic centimeter of air collected.

<: Result is less than the indicated limit of detection.

Note 3: Yamate Level II Structures counted contain fibers which meet a ≥ 3:1 (length:width) aspect ratio.

Note 1: AHERA Structures counted contain fibers which met $a \ge 5:1$ (length:width) aspect ratio and were ≥ 0.5 um in length.

Note 2: AHERA sampling criteria requires that >1200 liters of air be collected on 0.45um filters. Deviation from these requirements



Client: OCCU-TEC INC.

Client Reference No.: 92114-BLDG 107 CRAWL SPACE

Work Order No.: A1209155 Date: 25-Sep-12

Analytical Method: TEM AHERA

Sample Type: Air Report Date: 9/25/2012 4:12:51 PM

Grid Opening Size: 0.0112 mm²

Date Received:

9/19/2012 10:49:00 AM

Control of the Contro		Reporting	Total	Stru	ctures Countee	d		Total .	Asbestos			5%
Lab Sample No.	Client Sample ID	Limit (s/mm²)	Asbestos (s/mm²)	Chrysotile	Amphibole	Total		Amphibole (s/cc)	Total (s/cc)	Sensitivity (s/cc)	Low	ence Limit High
A1209155-007A	010				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		- 10					
		18	< 18	0	0	0	< 0.0049	< 0.0049	< 0.0049	0.0049	0	< 0.022
A1209155-008A	011											
		18	< 18	0	0	0	< 0.0049	< 0.0049	< 0.0049	0.0049	0	< 0.022
A1209155-009A	012											
		15	< 15	0	0	0	< 0.0044	< 0.0044	< 0.0044	0.0044	0	< 0.019
A1209155-010A	013											
		18	< 18	0	0	0	< 0.0045	< 0.0045	< 0.0045	0.0045	0	< 0.020

MCEF: Mixed Cellulose Ester Filter s/mm²: Structures per square millimeter "--": No Results (Air Volume is 0) s/cc: Structures per cubic centimeter of air collected.
<: Result is less than the indicated limit of detection.

Note 1: AHERA Structures counted contain fibers which met $a \ge 5:1$ (length:width) aspect ratio and were ≥ 0.5 um in length.

Note 2: AHERA sampling criteria requires that >1200 liters of air be collected on 0.45um filters. Deviation from thses requirements

Note 3: Yamate Level II Structures counted contain fibers which meet a ≥ 3:1 (length:width) aspect ratio.

Analyst(s) Name/Date: 9/25/2012



Client: OCCU-TEC INC.

Client Reference No.: 92114-BLDG 107 CRAWL SPACE

Work Order No.: A1209155

Analytical Method: TEM AHERA

Sample Type:

Date Received: 9/19/2012 10:49:00 AM

Report Date: 9/25/2012 4:12:51 PM

Date: 25-Sep-12

Filtration Filter: MCE Filter, .45um

385 mm²

Grid Opening Size:

Effective Filter Area:

0.0112 mm²

Lab Sample	Client Sample	Date	Prep	Air	Dilution	Analysis	Analyst	Grid Box
No.	Identification	Sampled	Date	Vol. (L)	Factor	Date		Identification
A1209155-001A	004	09/17/12 @12:00 am	09/20/12 @9:14 am	1559	1	09/25/12 @1:52 pm	NG	09-20-12A-1

	Grid	Reporting	Total	Stru	ictures Cou	ınted		Total A	Asbestos			
Analysis	Openings Counted	Limit (s/mm²)	Asbestos (s/mm²)	Chry- sotile	Amph- ibole	Total	Chrysotile (s/cc)	Amphibole (s/cc)	Total (s/cc)	Sensitivity (s/cc)	95 % Conf Low	idence Limit High
Asbestos	5	18	< 18	0	0	0	< 0.0044	< 0.0044	< 0.0044	0.0044	0	< 0.019

					Tì	EM Count Details			
Rec	Grid	Grid Opening ID	Count	Length (um)	Width (um)	Structure ID	Structure Type	EDS	Mass (ng)
1	A1	C4A	0	0.00	0.00	None Detected			0
2	A1	C4C	0	0.00	0.00	None Detected			0
3	A 1	E4A	0	0.00	0.00	None Detected			0
4	A2	C4A	0	0.00	0.00	None Detected			0
5	A2	C4C	0	0.00	0.00	None Detected			0

Total Fibers:	0		Total Mass: 0

TEM Microscope Documentation Accelerating Voltage *Magnification Calibration Date Instrument 14992x 9/4/2012 TEM 2/D686 100 KeV

^{*}Magnification = Calibrated screen magnification at 15,000X. For ISO Method 10312 the calibrated screen magnification is at 20,000X



Sample Type:

Client: OCCU-TEC INC.

Client Reference No.: 92114-BLDG 107 CRAWL SPACE

Date: 25-Sep-12 Work Order No.: A1209155

Analytical Method: TEM AHERA

Filtration Filter: MCE Filter, .45um

Effective Filter Area:

 $385\,\mathrm{mm}^2$

Date Received: 9/19/2012 10:49:00 AM Grid Opening Size: $0.0112\,mm^{2}$

Report Date: 9/25/2012 4:12:51 PM

Dilution Grid Box Client Sample Date Prep Air Analysis Lab Sample Identification Date Date Identification No. Sampled Vol. (L) Factor Analyst 005 09/20/12 09/25/12 09-20-12A-1 A1209155-002A 09/17/12 1559 1 NG

@12:00 am @9:14 am @1:52 pm

	Grid	Reporting	Total	Stru	ctures Coa	ınted		Total A	Asbestos			
Analysis	Openings Counted	Limit (s/mm²)	Asbestos (s/mm²)	Chry- sotile	Amph- ibole	Total	Chrysotile (s/cc)	Amphibole (s/cc)	Total (s/cc)	Sensitivity (s/cc)	95 % Conf Low	idence Limit High
Asbestos	5	18	< 18	0	0	0	< 0.0044	< 0.0044	< 0.0044	0.0044	0	< 0.019

					TI	EM Count Details			
Rec	Grid	Grid Opening ID	Count	Length (um)	Width (um)	Structure ID	Structure Type	EDS	Mass (ng)
1	В1	C4A	0	0.00	0.00	None Detected			0
2	B1	C4C	0	0.00	0.00	None Detected			0
3	B1	E4A	0	0.00	0.00	None Detected			0
4	B2	C4A	0	0.00	0.00	None Detected			0
5	B2	C4C	0	0.00	0.00	None Detected			0

Total Fibers: 0**Total Mass:** $\mathbf{0}$

TEM Microscope Documentation

Accelerating

Voltage *Magnification Calibration Date Instrument 14992x 9/4/2012 TEM 2/D686 $100\,\mathrm{KeV}$



Sample Type:

Client: OCCU-TEC INC.

Client Reference No.: 92114-BLDG 107 CRAWL SPACE

Work Order No.: Date: 25-Sep-12 A1209155

Analytical Method: TEM AHERA

Filtration Filter: MCE Filter, .45um

Effective Filter Area:

385 mm²

Date Received: 9/19/2012 10:49:00 AM Grid Opening Size: 0.0112 mm²

Report Date: 9/25/2012 4:12:51 PM

Аіг

Client Sample Grid Box Lab Sample Date Prep Air Dilution Analysis Identification Sampled Date Factor Date Identification Vol. (L) Analyst No. A1209155-003A 006 09/17/12 09/20/12 1539 09/25/12 NG 09-20-12A-1 @1:52 pm @12:00 am @9:14 am

	Grid	Reporting	Total	Stru	ctures Cou	ınted		Total A	Asbestos			
Analysis	Openings Counted	Limit (s/mm²)	Asbestos (s/mm²)	Chry- sotile	Amph- ibole	Total	Chrysotile (s/cc)	Amphibole (s/cc)	Total (s/cc)	Sensitivity (s/cc)	95 % Conf Low	idence Limit High
Asbestos	5	18	< 18	0	0	0	< 0.0045	< 0.0045	< 0.0045	0.0045	0	< 0.020

					T	EM Count Details			
Rec	Grid	Grid Opening ID	Count	Length (um)	Width (um)	Structure ID	Structure Type	EDS	Mass (ng)
1	C1	C4A	0	0.00	0.00	None Detected			0
2	Cl	C4C	0	0,00	0.00	None Detected			0
3	C1	E4A	0	0.00	0.00	None Detected			0
4	C2	C4A	0	0.00	0.00	None Detected			0
5	C2	C4C	0	0.00	0.00	None Detected			0
		Total Fibers:	0					Total Mass:	0

	TE	M Microsco	pe Documentation	
		Accelerating		
 Instrument	*Magnification	Voltage	Calibration Date	
TEM 2/D686	14992x	$100~{ m KeV}$	9/4/2012	



Client: OCCU-TEC INC.

Client Reference No.: 92114-BLDG 107 CRAWL SPACE

Date: 25-Sep-12 Work Order No.: A1209155

Analytical Method: TEM AHERA

Sample Type:

Filtration Filter: MCE Filter, .45um

Effective Filter Area:

 $385\,\mathrm{mm}^2$

Air

Date Received: 9/19/2012 10:49:00 AM Grid Opening Size: 0.0112 mm²

Report Date: 9/25/2012 4:12:51 PM

Lab Sample	Client Sample	Date	Prep	Air	Dilution	Analysis	Analyst	Grid Box
No.	Identification	Sampled	Date	Vol. (L)	Factor	Date		Identification
A1209155-004A	007	09/17/12 @12:00 am	09/20/12 @9:14 am	1719	1	09/25/12 @1:52 pm	NG	09-20-12A-1

	Grid	Reporting	Total	Stru	ctures Cou	ınted		Total A	Asbestos			
Analysis	Openings Counted	Limit (s/mm²)	Asbestos (s/mm²)	Chry- sotile	Amph- ibole	Total	Chrysotile (s/cc)	Amphibole (s/cc)	Total (s/cc)	Sensitivity (s/cc)	95 % Cont Low	idence Limit High
Asbestos	4	22	< 22	0	0	0	< 0.0050	< 0.0050	< 0.0050	0.0050	0	< 0.022

					T	EM Count Details			
Rec	Grid	Grid Opening ID	Count	Length (um)	Width (um)	Structure ID	Structure Type	EDS	Mass (ng)
1	D1	C4A	0	0.00	0.00	None Detected			0
2	D1	C4C	0	0.00	0.00	None Detected			0
3	D2	C4A	0	0.00	0.00	None Detected			0
4	D2	C4C	0	0.00	0.00	None Detected			0

Total Fibers: 0 Total Mass:

TEM Microscope Documentation

Λοσο	lerating
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	4	Accelerating		
Instrument	*Magnification	Voltage	Calibration Date	
TEM 2/D686	14992x	100 KeV	9/4/2012	



Client: OCCU-TEC INC.

Client Reference No.: 92114-BLDG 107 CRAWL SPACE

Work Order No.: A1209155

Date: 25-Sep-12

Analytical Method: TEM AHERA

Effective Filter Area:

Filtration Filter: MCE Filter, .45um

Sample Type: Air

Date Received: 9/19/2012 10:49:00 AM

Grid Opening Size:

 $385\,\mathrm{mm}^2$ 0.0112 mm²

Report Date: 9/25/2012 4:12:51 PM

Lab Sample	Client Sample	Date	Prep	Air	Dilution	Analysis		Grid Box
No.	Identification	Sampled	Date	Vol. (L)	Factor	Date	Analyst	Identification
A1209155-005A	008	09/17/12	09/20/12	1450	1	09/25/12	NG	09-20-12A-1

@12:00 am @9:14 am @1:52 pm

	Grid	Reporting	Total	Stru	ctures Cou	inted		Total /	Asbestos			
Analysis	Openings Counted	Limit (s/mm²)	Asbestos (s/mm²)	Chry- sotile	Amph- ibole	Total	Chrysotile (s/cc)	Amphibole (s/cc)	Total (s/cc)	Sensitivity (s/cc)	95 % Cont Low	idence Limit High
Asbestos	5	18	< 18	0	0	0	< 0.0047	< 0.0047	< 0.0047	0.0047	0	< 0.021

	TEM Count Details											
Rec	Grid	Grid Opening ID	Count	Length (um)	Width (um)	Structure ID	Structure Type	EDS	Mass (ng)			
1	El	C4A	0	0.00	0.00	None Detected			0			
2	E1	C4C	0	0.00	0.00	None Detected			0			
3	E2	C4A	0	0.00	0.00	None Detected			0			
4	E2	C4C	0	0.00	0.00	None Detected			0			
5	E2	E4A	0	0.00	0.00	None Detected			0			

Total Fibers:	0		Total Mass:	0

TEM Microscope Documentation Accelerating Voltage *Magnification Calibration Date Instrument TEM 2/D686 14992x 100 KeV 9/4/2012

^{*}Magnification = Calibrated screen magnification at 15,000X. For ISO Method 10312 the calibrated screen magnification is at 20,000X



Client: OCCU-TEC INC.

Client Reference No.: 92114-BLDG 107 CRAWL SPACE

Work Order No.: A1209155 Date: 25-Sep-12

Analytical Method: TEM AHERA Filtration Filter: MCE Filter, .45um

Sample Type: Air Effective Filter Area: 385 mm²

Date Received: 9/19/2012 10:49:00 AM Grid Opening Size: 0.0112 mm²

Report Date: 9/25/2012 4:12:51 PM

Lab Sample	Client Sample	Date	Prep	Air	Dilution	Analysis	Analyst	Grid Box
No.	Identification	Sampled	Date	Vol. (L)	Factor	Date		Identification
A1209155-006A	009	09/17/12 @12:00 am	09/20/12 @9:14 am	1450	1	09/25/12 @1:52 pm	NG	09-20-12A-1

	Grid	Reporting	Total	Structures Counted		inted		Total A	Asbestos			
Analysis	Openings Counted	Limit (s/mm²)	Asbestos (s/mm²)	Chry- sotile	Amph- ibole	Total	Chrysotile (s/cc)	Amphibole (s/cc)	Total (s/cc)	Sensitivity (s/cc)	95 % Conf Low	idence Limit High
Asbestos	5	18	< 18	0	0	0	< 0.0047	< 0.0047	< 0.0047	0.0047	0	< 0.021

	TEM Count Details											
Rec	Grid	Grid Opening ID	Count	Length (um)	Width (um)	Structure ID	Structure Type	EDS	Mass (ng)			
1	A6	C4A	0	0.00	0.00	None Detected			0			
2	A 6	C4C	0	0.00	0.00	None Detected			0			
3	A6	E4A	0	0.00	0.00	None Detected			0			
4	A7	C4A	0	0.00	0.00	None Detected			0			
5	A7	C4C	0	0.00	0.00	None Detected			0			

Total Fibers: 0 Total Mass: 0

TEM Microscope Documentation

Accelerating

Instrument *Magnification Voltage Calibration Date

TEM 2/D686 14992x 100 KeV 9/4/2012



Client: OCCU-TEC INC.

Client Reference No.: 92114-BLDG 107 CRAWL SPACE

Date: 25-Sep-12 Work Order No.: A1209155

Analytical Method: TEM AHERA

Filtration Filter: MCE Filter, .45um

Sample Type: Air

Effective Filter Area: $385\,mm^2$

Date Received: 9/19/2012 10:49:00 AM

Grid Opening Size: 0.0112 mm²

Report Date: 9/25/2012 4:12:51 PM

Lab Sample	Client Sample	Date	Prep	Air	Dilution	Analysis		Grid Box
No.	Identification	Sampled	Date	Vol. (L)	Factor	Date	Analyst	Identification
A1209155-007A	010	09/17/12	09/20/12	1386	1	09/25/12	NG	09-20-12A-1
		@12:00 am	@9:14 am			@1:52 pm		

	Grid	Reporting	Total	Stru	ctures Cou	inted		Total A	Asbestos			
Analysis	Openings Counted	Limit (s/mm²)	Asbestos (s/mm²)	Chry- sotile	Amph- ibole	Total	Chrysotile (s/cc)	Amphibole (s/cc)	Total (s/cc)	Sensitivity (s/cc)	95 % Conf Low	idence Limit High
Asbestos	5	18	< 18	0	0	0	< 0.0049	< 0.0049	< 0.0049	0.0049	0	< 0.022

-					T	EM Count Details			
Rec	Grid	Grid Opening ID	Count	Length (um)	Width (um)	Structure ID	Structure Type	EDS	Mass (ng)
1	В6	C4A	0	0.00	0.00	None Detected			0
2	В6	C4C	0	0.00	0.00	None Detected			0
3	B6	E4A	0	0.00	0.00	None Detected			0
4	В7	C4A	0	0.00	0.00	None Detected			0
5	В7	C4C	0	0.00	0.00	None Detected			0
		Total Fibers:	0					Total Mass:	0

TEM Microscope Documentation											
Accelerating											
Instrument	*Magnification	Voltage	Calibration Date								
TEM 2/D686	14992x	100 KeV	9/4/2012								

*Magnification = Calibrated screen magnification at 15,000X. For ISO Method 10312 the calibrated screen magnification is at 20,000X



Client: OCCU-TEC INC.

92114-BLDG 107 CRAWL SPACE Client Reference No.:

Work Order No.: A1209155 Date: 25-Sep-12

Analytical Method: **TEM AHERA**

Effective Filter Area:

Filtration Filter: MCE Filter, .45um

09-20-12A-1

Sample Type: Air

9/19/2012 10:49:00 AM

Grid Opening Size:

385 mm² $0.0112\,mm^2$

Date Received: Report Date:

A1209155-008A

9/25/2012 4:12:51 PM

011

Client Sample Dilution Grid Box Lab Sample Date Prep Air Analysis Identification Sampled Date Vol. (L) Factor Date Identification No. Analyst

09/20/12 09/25/12 09/17/12 1386 1 NG @12:00 am @9:14 am @1:52 pm

	Grid Reporting Total				Structures Counted			Total /	Asbestos				
Analysis	Openings Counted	Limit (s/mm²)	Asbestos (s/mm²)	Chry- sotile	Amph- ibole	Total	Chrysotile (s/cc)	Amphibole (s/cc)	Total (s/cc)	Sensitivity (s/cc)	95 % Conf Low	idence Limit High	
Asbestos	S	18	< 18	0	0	0	< 0.0049	< 0.0049	< 0.0049	0.0049	0	< 0.022	

					T	EM Count Details			
Rec	Grid	Grid Opening ID	Count	Length (um)	Width (um)	Structure ID	Structure Type	EDS	Mass (ng)
1	C6	C4A	0	0.00	0.00	None Detected			0
2	C6	C4C	0	0.00	0.00	None Detected			0
3	C6	E4A	0	0.00	0.00	None Detected			0
4	C7	C4A	0	0.00	0.00	None Detected			0
5	C7	C4C	0	0.00	0.00	None Detected			0
		Total Dileases	Λ				-	Total Mana	

Total Fibers: 0 Total Mass:

TEM Microscope Documentation

Accelerating

Voltage Instrument *Magnification Calibration Date TEM 2/D686 14992x $100~{\rm KeV}$ 9/4/2012



Client: OCCU-TEC INC.

Client Reference No.: 92114-BLDG 107 CRAWL SPACE

Work Order No.: A1209155

Date: 25-Sep-12

Analytical Method: TEM AHERA

Filtration Filter: MCE Filter, .45um

Sample Type: Air

Effective Filter Area:

 $385\,\mathrm{mm}^2$

Date Received: 9/19/2012 10:49:00 AM

Grid Opening Size:

0.0112 mm²

Report Date: 9/25/2012 4:12:51 PM

	Lab Sample	Client Sample	Date	Prep	Air	Dilution	Analysis		Grid Box
ı	No.	Identification	Sampled	Date	Vol. (L)	Factor	Date	Analyst	Identification
	A1209155-009A	012	09/17/12	09/20/12	1300	1	09/25/12	NG	09-20-12A-1

@12:00 am @9:14 am

@1:52 pm

	Grid	Reporting	Total	Stru	ctures Cou	inted			Asbestos			
Analysis	Openings Counted	Limit (s/mm²)	Asbestos (s/mm²)	Chry- sotile	Amph- ibole	Total	Chrysotile (s/cc)	Amphibole (s/cc)	Total (s/cc)	Sensitivity (s/cc)	95 % Conf Low	idence Limit High
Asbestos	6	15	< 15	0	0	0	< 0,0044	< 0.0044	< 0.0044	0.0044	0	< 0.019

					T	EM Count Details			
Rec	Grid	Grid Opening ID	Count	Length (um)	Width (um)	Structure ID	Structure Type	EDS	Mass (ng)
1	D6	C4A	0	0.00	0.00	None Detected			0
2	D6	C4C	0	0.00	0.00	None Detected			0
3	D6	E4A	0	0.00	0.00	None Detected			0
4	D7	C4A	0	0.00	0.00	None Detected			0
5	D7	C4C	0	0.00	0.00	None Detected			0
6	D 7	E4A	0	0.00	0.00	None Detected			0
		Total Fibers:	0					Total Mass:	0

	TE	M Microsco	pe Documentation				
	Accelerating						
Instrument	*Magnification	Voltage	Calibration Date				
TEM 2/D686	14992x	100 KeV	9/4/2012				

*Magnification = Calibrated screen magnification at 15,000X. For ISO Method 10312 the calibrated screen magnification is at 20,000X



Client: OCCU-TEC INC.

Client Reference No.: 92114-BLDG 107 CRAWL SPACE

Work Order No.: A1209155 Date: 25-Sep-12

Analytical Method: TEM AHERA Filtration Filter: MCE Filter, .45um

Sample Type: Air Effective Filter Area: 385 mm²

Date Received: 9/19/2012 10:49:00 AM Grid Opening Size: 0.0112 mm²

Report Date: 9/25/2012 4:12:51 PM

Lab Sample	Client Sample	Date	Prep	Air	Dilution	Analysis		Grid Box
No.	Identification	Sampled	Date	Vol. (L)	Factor	Date	Analyst	Identification
A1209155-010A	013	09/17/12	09/20/12	1539	1	09/25/12	NG	09-20-12A-1
		@12:00 am	@9:14 am			@1:52 pm		

Grid Total Structures Counted Total Asbestos Reporting Openings Limit Asbestos Chry-Amph-Chrysotile Amphibole Total Sensitivity 95 % Confidence Limit Counted (s/mm^2) (s/mm^2) Analysis Total (s/cc) (s/cc) Low High sotile ibole (s/cc) (s/cc) 5 18 < 18 0 0 < 0.0045 < 0.0045 < 0.0045 0.0045 < 0.020 Asbestos

	TEM Count Details Grid Length Width Structure Structure Mass													
Rec	Grid	Grid Opening ID	Count	Length (um)	Width (um)	Structure ID	Structure Type	EDS	Mass (ng)					
1	E6	E4A	0	0.00	0.00	None Detected			0					
2	E6	E4C	0	0.00	0.00	None Detected			0					
3	E6	F4A	0	0.00	0.00	None Detected			0					
4	E7	C4A	0	0.00	0.00	None Detected			0					
5	E7	C4C	0	0.00	0.00	None Detected			0					

Total Fibers: 0 Total Mass: 0

TEM Microscope Documentation

Accelerating

Instrument *Magnification Voltage Calibration Date

TEM 2/D686 14992x 100 KeV 9/4/2012

*Magnification = Calibrated screen magnification at 15,000X. For ISO Method 10312 the calibrated screen magnification is at 20,000X

Analyst(s) Name/Date: 9/25/2012

REQUEST FOR LABORATORY ANALYTICAL SERVICES

For Bureau Veritas Use Only Bureau Veritas Lab Project No.



Bureau Veritas North America, Inc.

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

Lake Zurich, IL 60047 (888) 576-7522 (847) 726-3320 Fax (847) 726-3323 Atlanta Lab
3380 Chastain Meadows Pky, Ste 300 95 Cakwood Road
Kennesaw, GA 30144
(800) 252-9919
(770) 499-7500
Fax (770) 499-7511
Fax (847) 726-3323

CONTACT LAB IN ADVANCE Charges Authorized? NYes No RUSH ANALYSIS Email Results A Fax (if yes, initial here) Need Results by:

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MATION Name NAVI	Address ISOS City, State, Zip	(Enter &	of Conta	Aumbedin Market											-	тоц	(print) Collector's Signature:	Received by:	Received by:	Received at Lab by:	Sample Condition Upon Receipt: 🗹 Acceptable	
		dng Water	Coundwater Wastewater	AIR VOLUME (specify units)	1559	1559	1539	1719	1450	1456	9851	1385	1300	539			(print)		az.	쬬	8	
No. 92114		gų.		MATRIX/ All				<u>'</u>									11:24	ate/Time <i>91(19)</i> (7	Date/Fime		121190	
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Address 4151 N.M.	OLO.	ic.)	3 (NTIFICATION	3- 3	, 530%	15 60	日に上	25 71	224 2	134 Sts	OTENDE	CYCLAW	34 JSX		ſ	Collected by:	Relinquished by: TATELLA	nished by:	Method of Shipment:		(Client Signature MUST Accompany Request)
Name Compar Mailing	City, State, Zip Telephone No.	(method, limit of detection, etc.)	nation of Preservati	CLIENT SAMPLE IDENTIFICATION	GSA ABMIN 1 ST FLOOR	6SM OFFICES ST FLOOR	ON MO	007 ROOM 112 16 FLOOM	608 BY REOM 214 JA FLOOR	009 BY ROOM 274 2m BLOOK	OIO BASIOMENT BY SLANGOLS	BASSANONT COTTENDE CRANICSPACE	012 BASSANDUT CICANIL SPACE	DIS OUTSING 1945T PANCING LOT	and in section 2018		Collect	OF	CUSTODY Refinquished by:	Metho	Authorized by:	2
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October 11, 2012

Jeff Smith OCCU-TEC INC. 4151 N. Mulberry Suite 275 Kansas City, MO 64116

Bureau Veritas Work Order No. A1210109

Reference: 92114 - BLDG 107 CRAWLSPACE

Dear Jeff Smith:

Bureau Veritas North America, Inc. received 8 samples on October 10, 2012 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 sixty-day holding period, 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 the report, please contact the analyst whose name appears on the report or myself at (770) 499-7701.

Sincerely,

Kuntal Parikh

Senior Microscopist
Electronic signature authorized through password protection

cc: Michael Wantland

Bureau Veritas North America, Inc.

Health, Safety, and Environmental Services 3380 Chastain Meadows Parkway, Suite 300 Kennesaw, GA 30144 Maio: (770) 499-7701

Fax: (770) 499-7511

www.us.burcauveriras.com



CASE NARRATIVE

Date: 11-Oct-12

CLIENT:

OCCU-TEC INC.

Project:

92114 - BLDG 107 CRAWLSPACE

Work Order No A1210109

ANALYTICAL METHOD FOR AIRBORNE ASBESTOS FIBERS USING TRANSMISSION ELECTRON MICROSCOPY (TEM) BY THE AHERA METHOD

The results of this report relate only to the samples listed in the body of this report.

Unless otherwise noted below, the following statements apply: 1) all samples were received in acceptable condition, 2) all quality control results associated with this sample set were within acceptable limits and/or do not adversely affect the reported results and 3) the industrial hygiene results have not been blank corrected.

Upon receipt in the laboratory, filters are transferred to a glass slide with a drop of dimethyl formamide/acetic acid clearing solution. After clearing, samples are partially ashed in a plasma asher. The filters are then carbon coated in a vacuum evaporator. Portions of the cleared/ashed/coated filters are excised and placed on 200-mesh copper TEM grids in a wick-type solutional washer containing 100% acetone.

Two grids are placed consecutively in the TEM for examination. An equal number of openings are examined on each grid at 15,000X magnification. Asbestos structures containing fibers which meet a >5:1 length: width aspect ratio and a minimum length of 0.5 micrometers are identified using morphology, selected area electron diffraction, and energy-dispersive x-ray spectroscopy. Fibers are classified by structure type, are sized (length and width), and are identified as chrysotile, amphibole, ambiguous, or non-asbestos. Results are reported as total asbestos structures per square millimeter of filter and asbestos structures per cubic centimeter of air (asbestos structures/cc). The Kennesaw, Georgia laboratory is accredited by NVLAP –Lab Code 101125-0.

For clearance of a work area in schools (k-12) the requirement is that the average of the results of the five inside samples is <70 str/mm2 assuming an analytical sensitivity of <0.005 structures/cubic centimeter.

The test report shall not be reproduced, except in full, without written approval of the laboratory. In addition, the report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

References



CLIENT:

OCCU-TEC INC.

Project:

92114 - BLDG 107 CRAWLSPACE

Work Order No A1210109

USEPA. 1987. Asbestos Hazard Emergency Response Act. Appendix A to 40 CFR 763, Subpart E.

Washington: GPO. (AHERA protocol).



Client: OCCU-TEC INC.

Client Reference No.: 92114 - BLDG 107 CRAWLSPACE

Work Order No.: A1210109 Date: 11-Oct-12

Analytical Method: TEM

TEM AHERA

Sample Type: Air

Date Received: 10/10/2012 12:23:12 PM

Report Date:

10/11/2012 2:58:02 PM

Grid Opening Size:

0.0112 mm²

		Reporting	Total	Stru	ctures Counte	d		Total A	Asbestos			5 %
Lab Sample No.	Client Sample ID	Limit (s/mm²)	Asbestos (s/mm²)	Chrysotile	Amphibole	Total	Chrysotile (s/cc)	Amphibole (s/cc)	Total (s/cc)	Sensitivity (s/cc)	Confid Low	ence Limit High
A1210109-001A	017											
		22	< 22	0	0	0	< 0.0046	< 0.0046	< 0.0046	0.0046	0	< 0.020
A1210109-002A	018		.*		- P							
		22	< 22	0	0 .	0	< 0.0046	< 0.0046	< 0.0046	0.0046	0	< 0.020
A1210109-003A	019											
		22	< 22	0	0	0	< 0.0045	< 0.0045	< 0.0045	0.0045	0	< 0.020
A1210109-004A	020											
		22	< 22	0	0	0	< 0.0045	< 0.0045	< 0.0045	0.0045	0	< 0.020
A1210109-005A	021						······································				.,	
		22	< 22	0	0	0	< 0.0045	< 0.0045	< 0.0045	0.0045	0	< 0.020
A1210109-006A	022											
		22	< 22	0	0	0	< 0.0042	< 0.0042	< 0.0042	0.0042	0	< 0.019

MCEF: Mixed Cellulose Ester Filter

s/mm²: Structures per square millimeter

"--": No Results (Air Volume is 0)

s/cc: Structures per cubic centimeter of air collected.

<: Result is less than the indicated limit of detection.

Note 1: AHERA Structures counted contain fibers which met $a \ge 5:1$ (length:width) aspect ratio and were ≥ 0.5 um in length.

Note 2: AHERA sampling criteria requires that >1200 liters of air be collected on 0.45um filters. Deviation from these requirements

Note 3: Yamate Level II Structures counted contain fibers which meet a ≥ 3:1 (length; width) aspect ratio.



Client: OCCU-TEC INC.

Client Reference No.: 92114 - BLDG 107 CRAWLSPACE

Work Order No.: A1210109 Date: 11-Oct-12

Analytical Method:

TEM AHERA

Sample Type: Air

T TOTAL SATTIES

Date Received: 10/10/2012 12:23:12 PM

10/10/0010 10 00 10 00

Report Date:

10/11/2012 2:58:02 PM

Grid Opening Size:

0.0112 mm²

		Reporting	Total	Stru	ictures Counte	d		Total .	Asbestos		9	5 %
Lab Sample No.	Client Sample ID	Limit (s/mm²)	Asbestos (s/mm²)	Chrysotile Amphibole Total		Chrysotile (s/cc)	Amphibole (s/cc)	Total (s/cc)	Sensitivity (s/cc)	Confide Low	ence Limit High	
A1210109-007A	023											
		22	< 22	0	0	0	< 0.0043	< 0.0043	< 0.0043	0.0043	0	< 0.019
A1210109-008A	024				· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·					
		22	< 22	0	0	0	< 0.0043	< 0.0043	< 0.0043	0.0043	0	< 0.019

MCEF: Mixed Cellulose Ester Filter s/mm²: Structures per square millimeter

"--" : No Results (Air Volume is 0)

s/cc: Structures per cubic centimeter of air collected.

<: Result is less than the indicated limit of detection.

Note 1: AHERA Structures counted contain fibers which met $a \ge 5:1$ (length:width) aspect ratio and were ≥ 0.5 um in length.

Note 2: AHERA sampling criteria requires that >1200 liters of air be collected on 0.45um filters. Deviation from these requirements

Note 3: Yamate Level II Structures counted contain fibers which meet a ≥ 3:1 (length:width) aspect ratio.

Analyst(s) Name/Date: 10/11/2012



Client: OCCU-TEC INC.

Client Reference No.: 92114 - BLDG 107 CRAWLSPACE

Work Order No.: A1210109 Date: 11-Oct-12

Analytical Method: TEM AHERA

Filtration Filter: MCE Filter, .45um Sample Type: Air Effective Filter Area: $385\,mm^2$

Date Received: 10/10/2012 12:23:12 PM Grid Opening Size: 0.0112 mm²

Report Date: 10/11/2012 2:58:02 PM

Lab Sample	Client Sample	Date	Prep	Air	Dilution	Analysis		Grid Box
No.	Identification	Sampled	Date	Vol. (L)	Factor	Date	Analyst	Identification
A1210109-001A	017	10/09/12	10/10/12	1871	1	10/11/12	NG	10-10-12E-1

@12:00 am @12:34 pm @10:14 am

	Grid	Reporting	Total	Stru	ictures Cou	inted			Asbestos			
Analysis	Openings Counted	Limit (s/mm²)	Asbestos (s/mm²)	Chry- sotile	Amph- ibole	Total	Chrysotile (s/cc)	Amphibole (s/cc)	Total (s/cc)	Sensitivity (s/cc)	95 % Conf Low	idence Limit High
Asbestos	4	22	< 22	0	0	0	< 0.0046	< 0.0046	< 0.0046	0.0046	0	< 0.020

					Ti	EM Count Details			
Rec	Grid	Grid Opening ID	Count	Length (um)	Width (um)	Structure ID	Structure Type	EDS	Mass (ng)
1	A1	C4A	0	0.00	0.00	None Detected			0
2	A1	C4C	0	0.00	0.00	None Detected			0
3	A2	C4A	0	0.00	0.00	None Detected			0
4	A2	C4C	0	0.00	0.00	None Detected			0
		rici . 1 YESSY				· · ·		77 4 1 3 4	

4	A2	C4C	0	0.00	0.00	None Detected		0
		Total Fibers:	0				Total Mass:	0

•		TE	M Microsco	pe Documentation										
	Accelerating													
	Instrument	*Magnification	Voltage	Calibration Date										
	TEM 2/D686	14980x	100 KeV	10/1/2012										

*Magnification = Calibrated screen magnification at 15,000X. For ISO Method 10312 the calibrated screen magnification is at 20,000X



Client: OCCU-TEC INC.

Client Reference No.: 92114 - BLDG 107 CRAWLSPACE

Work Order No.: A1210109 Date: 11-Oct-12

Analytical Method: TEM AHERA

Filtration Filter: MCE Filter, .45um Sample Type: Effective Filter Area: $385\,mm^2$

Date Received: 10/10/2012 12:23:12 PM Grid Opening Size: 0.0112 mm²

Report Date: 10/11/2012 2:58:02 PM

Lab Sample	Client Sample	Date	Prep	Air	Dilution	Analysis	Analyst	Grid Box
No.	Identification	Sampled	Date	Vol. (L)	Factor	Date		Identification
A1210109-002A	018	10/09/12 @12:00 am	10/10/12 @12:34 pm	1878	1	10/11/12 @10:14 am	NG	10-10-12E-1

	Grid	Reporting	Total	Stru	ctures Cou	inted		Total A	Asbestos			·
Analysis	Openings Counted	Limit (s/mm²)	Asbestos (s/mm²)	Chry- sotile	Amph- ibole	Total	Chrysotile (s/cc)	Amphibole (s/cc)	Total (s/cc)	Sensitivity (s/cc)	95 % Con Low	didence Limit High
Asbestos	4	22	< 22	0	0	0	< 0.0046	< 0.0046	< 0.0046	0.0046	0	< 0.020

	TEM Count Details												
Rec	Grid	Grid Opening ID	Count	Length (um)	Width (um)	Structure ID	Structure Type	EDS	Mass (ng)				
1	B1	C4A	0	0.00	0.00	None Detected			0				
2	B1	C4C	0	0.00	0.00	None Detected			0				
3	B2	C4A	0	0.00	0.00	None Detected			0				
4	B2	C4C	0	0.00	0.00	None Detected			0				
				·- ·- ·- ·- ·- ·- ·- ·- ·- ·- ·- ·- ·- ·	······································								

Total Fibers:	0		Total Mass:	0
		TEM Microscope Documentation		

		Accelerating		
Instrument	*Magnification	Voltage	Calibration Date	
TEM 2/D686	14980x	100 KeV	10/1/2012	_

^{*}Magnification ≃ Calibrated screen magnification at 15,000X. For ISO Method 10312 the calibrated screen magnification is at 20,000X



Client: OCCU-TEC INC.

92114 - BLDG 107 CRAWLSPACE Client Reference No.:

Date: 11-Oct-12 Work Order No.: A1210109

Analytical Method: TEM AHERA

> Effective Filter Area: Sample Type: Air

Date Received: 10/10/2012 12:23:12 PM Grid Opening Size: 0.0112 mm²

Report Date: 10/11/2012 2:58:02 PM

Dilution Grid Box Client Sample Date Prep Air Analysis Lab Sample No. Identification Sampled Date Vol. (L) **Factor** Date Analyst Identification A1210109-003A 019 10/09/12 10/10/12 1885 1 10/11/12 NG 10-10-12E-1

> @12:00 am @12:34 pm @10:14 am

Filtration Filter: MCE Filter, .45um

385 mm²

	Grid	Reporting	Total	Stru	ctures Cou	inted			Asbestos			****
Analysis	Openings Counted	Limit (s/mm²)	Asbestos (s/mm²)	Chry- sotile	Amph- ibole	Total	Chrysotile (s/cc)	Amphībole (s/cc)	Total (s/cc)	Sensitivity (s/cc)	95 % Confi Low	dence Limit High
Asbestos	4	22	< 22	0	0	0	< 0.0045	< 0.0045	< 0.0045	0.0045	0	< 0.020

					T	EM Count Details			
Rec	Grid	Grid Opening ID	Count	Length (um)	Width (um)	Structure ID	Structure Type	EDS	Mass (ng)
1	C1	C4A	0	0.00	0.00	None Detected			0
2	C 1	C4C	0	0.00	0.00	None Detected			0
3	C2	C4A	0	0.00	0.00	None Detected			0
4	C2	C4C	0	0.00	0.00	None Detected			0
								PRO 2 E T. E.	

Total Fibers: 0 Total Mass: 0

TEM Microscope Documentation

Accelerating Voltage *Magnification Calibration Date Instrument **TEM 2/D686** 14980x 100 KeV 10/1/2012

*Magnification = Calibrated screen magnification at 15,000X. For ISO Method 10312 the calibrated screen magnification is at 20,000X



Client: OCCU-TEC INC.

Client Reference No.: 92114 - BLDG 107 CRAWLSPACE

Date: 11-Oct-12 Work Order No.: A1210109

Analytical Method: TEM AHERA

Filtration Filter: MCE Filter, .45um Sample Type: Effective Filter Area: $385\,mm^2$

Air

Date Received: Grid Opening Size: $0.0112\,mm^{2}$ 10/10/2012 12:23:12 PM

Report Date: 10/11/2012 2:58:02 PM

Lab Sample	Client Sample	Date	Prep	Air	Dilution	Analysis	Analyst	Grid Box
No.	Identification	Sampled	Date	Vol. (L)	Factor	Date		Identification
A1210109-004A	020	10/09/12 @12:00 am	10/10/12 @12:34 pm	1885	1	10/11/12 @10:14 am	NG	10-10-12E-1

	Grid	Reporting	Total	Structures Counted				Total /				
Analysis	Openings Counted	Limit (s/mm²)	Asbestos (s/mm²)	Chry- sotile	Amph- ibole	Total	Chrysotile (s/cc)	Amphibole (s/cc)	Total (s/cc)	Sensitivity (s/cc)	95 % Conf Low	idence Limit High
Asbestos	4	22	< 22	0	0	0	< 0.0045	< 0.0045	< 0.0045	0.0045	0	< 0.020

	TEM Count Details												
Rec	Grid	Grid Opening ID	Count	Length (um)	Width (um)	Structure ID	Structure Type	EDS	Mass (ng)				
1	D1	C4A	0	0.00	0.00	None Detected			0				
2	D1	C4C	0	0.00	0.00	None Detected			0				
3	D2	C4A	0	0.00	0.00	None Detected			0				
4	D2	C4C	0	0.00	0.00	None Detected			0				

•	 	· ·	0.00	0.00	Trong D dudied		
	Total Fibers:	0				l Mass:	0

1 EM Microscope Documentation												
Accelerating												
 Instrument *Magnification Voltage Calibration Date												
 TEM 2/D686	14980x	100 KeV	10/1/2012									

^{*}Magnification = Calibrated screen magnification at 15,000X. For ISO Method 10312 the calibrated screen magnification is at 20,000X



Client: OCCU-TEC INC.

Client Reference No.: 92114 - BLDG 107 CRAWLSPACE

Work Order No.: A1210109 Date: 11-Oct-12

Analytical Method: TEM AHERA

Sample Type: Air

Date Received: 10/10/2012 12:23:12 PM Grid Opening Size: 0.0112 mm²

Report Date: 10/11/2012 2:58:02 PM

Lab Sample	Client Sample	Date	Prep	Air	Dilution	Analysis	Analyst	Grid Box
No.	Identification	Sampled	Date	Vol. (L)	Factor	Date		Identification
A1210109-005A	021	10/09/12 @12:00 am	10/10/12 @12:34 pm	1891	1	10/11/12 @10:14 am	NG	10-10-12E-1

Filtration Filter: MCE Filter, .45um

 $385\,mm^2$

Effective Filter Area:

	Grid	Reporting	Total		Structures Counted			Total Asbestos				
Analysis	Openings Counted	Limit (s/mm²)	Asbestos (s/mm²)	Chry- sotile	Amph- ibole	Total	Chrysotile (s/cc)	Amphibole (s/cc)	Total (s/cc)	Sensitivity (s/cc)	95 % Conf Low	idence Limit High
Asbestos	4	22	< 22	0	0	0	< 0.0045	< 0.0045	< 0.0045	0.0045	0	< 0.020

	TEM Count Details											
Rec	Grid	Grid Opening ID	Count	Length (um)	Width (um)	Structure ID	Structure Type	EDS	Mass (ng)			
1	E1	C4A	0	0.00	0.00	None Detected			0			
2	E1	C4C	0	0.00	0.00	None Detected			0			
3	E2	C4A	0	0.00	0.00	None Detected			0			
4	E2	C4C	0	0.00	0.00	None Detected			0			

Total Fibers:	0	Total Mass:)
	·····		

TEM Microscope Documentation												
Accelerating												
 Instrument	*Magnification	Voltage	Calibration Date									
TEM 2/D686	14980x	$100~{ m KeV}$	10/1/2012									

^{*}Magnification = Calibrated screen magnification at 15,000X. For ISO Method 10312 the calibrated screen magnification is at 20,000X



Client: OCCU-TEC INC.

Client Reference No.: 92114 - BLDG 107 CRAWLSPACE

Work Order No.: A1210109

Analytical Method: TEM AHERA

EM AHERA Filtration Filter: MCE Filter, .45um

Date: 11-Oct-12

 $385\,\mathrm{mm}^2$

Effective Filter Area:

Sample Type: Air

Date Received: 10/10/2012 12:23:12 PM Grid Opening Size: 0.0112 mm²

Report Date: 10/11/2012 2:58:02 PM

Lab Sample	Client Sample	Date	Prep	Air	Dilution	Analysis	Analyst	Grid Box
No.	Identification	Sampled	Date	Vol. (L)	Factor	Date		Identification
A1210109-006A	022	10/09/12 @12:00 am	10/10/12 @12:34 nm	2024	1	10/11/12 @10:14 am	NG	10-10-12E-1

	Grid	Reporting		Structures Counted			-	Total A	Asbestos			
Analysis	Openings Counted	Limit (s/mm²)	Asbestos (s/mm²)	Chry- sotile	Amph- ibole	Total	Chrysotile (s/cc)	Amphibole (s/cc)	Total (s/cc)	Sensitivity (s/cc)	95 % Cont Low	fidence Limit High
Asbestos	4	22	< 22	0	0	0	< 0.0042	< 0.0042	< 0.0042	0.0042	0	< 0.019

TEM Count Details											
Rec	Grid	Grid Opening ID	Count	Length (um)	Width (um)	Structure ID	Structure Type	EDS	Mass (ng)		
1	A6	G4C	0	0.00	0.00	None Detected			0		
2	A 6	H4A	0	0.00	0.00	None Detected			0		
3	A7	C4A	0	0.00	0.00	None Detected			0		
4	A7	C4C	0	0.00	0.00	None Detected			0		
		70 4 E 1019	0		·						

4	Α/	C4C	U	0.00	0.00	None Detected		0
		Total Fibers:	0				Total Mass:	0
	• • • • • • • • • • • • • • • • • • • •					croscope Documentation		

Accelerating

Instrument *Magnification Voltage Calibration Date

TEM 2/D686 14980x 100 KeV 10/1/2012

*Magnification = Calibrated screen magnification at 15,000X. For ISO Method 10312 the calibrated screen magnification is at 20,000X



Client: OCCU-TEC INC.

Client Reference No.: 92114 - BLDG 107 CRAWLSPACE

Work Order No.: A1210109

Analytical Method: TEM AHERA

Date Received:

M AHERA Filtration Filter: MCE Filter, .45um

Date: 11-Oct-12

385 mm²

Effective Filter Area:

Sample Type: Air

10/10/2012 12:23:12 PM Grid Opening Size: 0.0112 mm²

Report Date: 10/11/2012 2:58:02 PM

Lab Sample	Client Sample	Date	Prep	Air	Dilution	Analysis	Analyst	Grid Box
No.	Identification	Sampled	Date	Vol. (L)	Factor	Date		Identification
A1210109-007A	023	10/09/12 @12:00 am	10/10/12 @12:34 pm	1982	1982 1 10/11/12 @10:14 am			10-10-12E-1

	Grid	Reporting	Total	Stru	ctures Cou	ınted		Total A	Asbestos			
Analysis	Openings Counted	Limit (s/mm²)	Asbestos (s/mm²)	Chry- sotile	Amph- ibole	Total	Chrysotile (s/cc)	Amphibole (s/cc)	Total (s/cc)	Sensitivity (s/cc)	95 % Conf Low	idence Limit High
Asbestos	4	22	< 22	0	0	0	< 0.0043	< 0.0043	< 0.0043	0.0043	0	< 0.019

	TEM Count Details											
Rec	Grid	Grid Opening ID	Count	Length (um)	Width (um)	Structure ID	Structure Type	EDS	Mass (ng)			
1	B6	C4A	0	0.00	0.00	None Detected			0			
2	B 6	C4C	0	0.00	0.00	None Detected			0			
3	В7	C4C	0	0.00	0.00	None Detected			0			
4	В7	E4A	0	0.00	0.00	None Detected			0			

Total Fibers: 0 Total Mass: 0

TEM Microscope Documentation

Accelerating

Instrument *Magnification Voltage Calibration Date
TEM 2/D686 14980x 100 KeV 10/1/2012

*Magnification = Calibrated screen magnification at 15,000X. For ISO Method 10312 the calibrated screen magnification is at 20,000X



Client: OCCU-TEC INC.

Client Reference No.: 92114 - BLDG 107 CRAWLSPACE

Work Order No.: A1210109

Analytical Method: TEM AHERA

Filtration Filter: MCE Filter, .45um

Date: 11-Oct-12

 $385\,\mathrm{mm}^2$

Effective Filter Area:

Sample Type:

Date Received: 10/10/2012 12:23:12 PM Grid Opening Size: $0.0112\,mm^2$

Report Date: 10/11/2012 2:58:02 PM

Lab Sample	Client Sample	Date	Prep	Air	Dilution	Analysis	Analyst	Grid Box
No.	Identification	Sampled	Date	Vol. (L)	Factor	Date		Identification
A1210109-008A	024	10/09/12 @12:00 am	10/10/12	1989	1	10/11/12 @10:14 am	NG	10-10-12E-1

	Grid Reporting Total Struc					ınted	Total Asbestos					
Analysis	Openings Counted	Limit (s/mm²)	Asbestos (s/mm²)	Chry- sotile	Amph- ibole	Total	Chrysotile (s/cc)	Amphibole (s/cc)	Total (s/cc)	Sensitivity (s/cc)	95 % Conf Low	idence Limit High
Asbestos	4	22	< 22	0	0	0	< 0.0043	< 0.0043	< 0.0043	0.0043	0	< 0.019

					TI	EM Count Details			
Rec	Grid	Grid Opening ID	Count	Length (um)	Width (um)	Structure ID	Structure Type	EDS	Mass (ng)
1	C6	C4A	0	0.00	0.00	None Detected			0
2	C6	C4C	0	0.00	0.00	None Detected			0
3	C7	C4A	0	0.00	0.00	None Detected			0
4	C7	C4C	0	0.00	0.00	None Detected			0

Total Fibers: 0 **Total Mass:** 0

TEM Microscope Documentation

Accelerating

Voltage *Magnification Instrument Calibration Date TEM 2/D686 14980x $100 \, \mathrm{KeV}$ 10/1/2012

*Magnification = Calibrated screen magnification at 15,000X. For ISO Method 10312 the calibrated screen magnification is at 20,000X

Analyst(s) Name/Date: 10/11/2012

REQUEST FOR LABORATORY ANALYTICAL SERVICES

For Bureau Veritas Use Only Bureau Veritas Lab Project No.



BLDG 107 CHANCSPACE

Bureau Veritas North America, Inc.

3380 Chastain Meadows Pky, \$te 300 95 Oakwood Road Kennesaw, GA 30144 (800) 252-9919 (770) 499-7500 Fax (770) 499-7511 Affanta Lab 22345 Roethel Drive (248) 344-1770 Fax (248) 344-2655 Novi, MI 48375 (800) 806-5887 Detroit Lab

Charges Authorized? A res No (if yes, initial hare) CONTACT LAB IN ADVANCE **RUSH ANALYSIS** K Email Results DEax Lake Zurich, IL 60047

Chicago Lab

2 10 (c) (c) (c)

24 m FAT

JSWATH & OCCUTER . COM Direct Bill ☐ Call for Credit Card Information (888) 576-7522 (847) 726-3320 Fax (847) 726₃3323 H #0d 🗆 Name Client Job. No. 9211 Dept. Cold LEFE SULTE OCCUTION

FOR LAB 4131-3088 71017 Page of City, State, Zlp \CAAXBS C.CC WO WO (5+121-)
ANALYSIS REQUESTED
(Enter an 'X' in the box below to indicate request, Enter a 'P' if Preservative added.') ROOM Date/Time Date/Time Date/Time 1500 EAST BANNISTIR Other (explain) MAIN LAMETSHORN 24 HP TURN AROND TIME Sample Condition Upon Receipt: A Acceptable Owner were (print) | Collector's Signature: Received at Lab by: Company Address Received by: Received by: BILL!NG/INVOICE INFORMATION of Cortainers Date/Time |Oot|12 AIR VOLUME (specify units) 2014 Drinking Water 2005 2005 885 785 686) Groundwater 878 ■ Wastewater 29 1871 Fax No. 916-231-5641 COAR ANCE Date/Time Date 10/09 IOM TO CASSE MATRIX Which state are these from? 72.57 Soils: TIME <u>5</u> 10:24 STE Sivoi 10122 16.25 City, State, Zip (CANSAL CITY, MO 64116 10,14 2 PATELLIA CONSICAR DATE SAMPLED 2120 Mailing Address 4151 N. WULBER PHONE PATCHALLY X (LIGHBY (Client Signature MUST Accompany Request) Special Instructions and/or specific regulatory requirements: 816.719. 6149 816.231.5580 OTS LEGE BASOMON'S OWA CRAM SOME # 38° **KARKY** 469 #333 有なのの CONTINUED CRAWLSPACE #399 992 # NOCTH LOUD OF CHANCE PRICE PATRICIA (SPACE SOUTH WOODE CREWIL SO ME SOUTH DAY OF CREW SPACE Method of Shipment: 624 BASEMWAT BY SANSOR NO PITH WAS OF CASUL Relinquished by: CLIENT SAMPLE (DENTIFICATION Relinquished by: Collected by: 022 1" FL S VISSERSY PLSUCTS lethod, limit of detection, etc.) Telephone No. Explanation of Preservation Company Authorized by: Name SUSTODY CHAIN OF 8

SUBMITTEDS LABORATORY COPY BLANKS NOT

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			100 p.	ALUEEAT	*-		Eas Blon	osal Site Use Only
	WASTE SHIPMENT REC	CORD/ASSES	STOS M	ANIFEST	•		POI OISPI	osai sito osa Oray
	(Sec Reverse for Instructions)	7		,			Elovation	
	1-A.Special Wasto Profile Number	NESHAP Notified		WSR Number			1	·
1	,	YES	NO		007	790	North	East
1	43381019946			4			<u> </u>	
	1-B. Generator Name, Contact Name, an Terracon (Owner's	d Complete Malling Add	ress (including	Zip Codo)		1-C. G	onerator's	Phone Number
	Terracon (Owner's	Representa	acive)		,	1		
	13910 West 96th T				•		ممد	4304
	Lenexa, KS 66215	· · · · · · · · · · · · · · · · · · ·			•		-998-	
1	1-D. Work Site Address		•		, ,	1-E. 24	i Hour Ema Nophone N	orgency Response
	Federal Center	والمراد والمراهم	. '		, , , ,	v.		
	4300 Ecodfellow	•				1 020		7202
	St. Trouts, MO 2. Operator's Name and Complete Mulling	Address			3'	V Operat	ars Phono	Number
	GEI	,			3			
	7225 St. Charles	Rock Road	٠.		્રો	636	-928-	-2500
	Pagedale. MO 631	Complete Mailing Adda	105		- 1	WDS	hono Num	bor, 🔠
	3. Waste Disposal Site (WDS) Namo and Roxana Landtill A	uthority						
1.	4600 Cabokia Cree	k Road				1	سر سو در	5045
=	Roxana: TL 62048	,				1618	<u>-656-</u>	-6912
Generator	4. Name and Address of Responsible Age	al Resource	ŝ			1		T.
18	205 Jefferson, Ro	om_20			•			
1	205 Jefferson, Rod Jefferson City, Mo	5 65102	·			6, Cont	glages	7. Total Quantily
	5. Description of Materials	,				No.	Туро	уф3
		· · · · · · · · · · · · · · · · · · ·	Ashartae (, NA2212, III, RQ		214	1	· · ·
	Contaminated Soil	& Debris	7.0000000	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	12	3116	140	20-11
Ι.	non-triable asbostes		Cat I	Cat II		137	7	
	HQT-MEDIO 45005485							- W
	8. Special Handling Instructions and Addit	ional information						
1	24 HOUR NOTICE GIVEN PR	ior to disposal, mu	IST BE BURI	ED				
	9. GENERATOR/OPERATOR'S CERTIFI	CATION: I hereby deck	ire that the co	ntents of this consign	ment are fully an	d accurate	doscribe	d above by proper ship-
								o applicable international
	ping name and are classified, packed, ma and government regulations. I hereby cort	ify that the asbesies is r	not contamina	ted with nazardous, F	CB, and/or any a	SPOCIAL WA	o.o.	
	Printed/Typed Name and Title		Sinnature					Dato
	Vicki Dunn-Wolfe/	President						9-21-12
		200440110	1 7.15	Driver Signature		· · · · · · · · · · · · · · · · · · ·		· ·
	10. Transporter 1 Company Name Allied Waste							。 在 我们的 。
]	· .							
١.	Complete Mailing Address 12976 St. Charles	Rock Road:						
	Bridgeton, MO 630			Printed Name and	Title /	177	10 3	X 3 3
			• -	1-12 1 1 16	"L /^	AKT	42T	
١.	Telephone Number (including area code)			FILE		1 2 1		
15	636-947-5959			Date 7	24-	12		<u> </u>
Transporter	11. Transporter 2 Company Name	·	· · · · · · · · · · · · · · · · · · ·	Driver Signature				
1 2	11. Truispondi 2 Company Teams	p			•			
=	Complete Malling Address							• •
	Complete lawing vegices	,- -						
	· · · · · ·	•		Printed Name and	Title			
				FIRST OF TABLES OF THE				
	Telephone Number (including area code)			-				
		•		Dατο				
<u> </u>	Landing Conce							
	12. Discrepancy Indication Space	-						
章								
S	13. Waste Disposal Site Owner or Operate Special Waste Approval is it	LANGE OF THE PARTY OF THE PARTY OF THE	e case of a G	ionoric Asbestos App	oroval.		Lamile	1000
Disposat Site	Certification of receipt of as	bestos materials covere	d by this mar	licut except as noted	l in item 12.		_//	0.00
ğ	Printed/Typed Name and Title		Signature					Date
"	1/1/1/1/	~						1/14/11
	I NUTICITAL	77.7				ILD - Gener		

				L			
	WASTE SHIPMENT RECORD/ASBE (See Reverse for Instructions)	ESTOS !	MANIFEST	1		For Disp	posal Site Use Only
	1-A.Spodal Waste Profile Number NESHAP Notified		WSR Number	1	··	Elovatio	in
	43381019946YES _	NQ		0077	791	North_	East
	1-8. Generator Name, Contact Name, and Complete Mailing Ac Terracon (Owner's Representa 13910 West 96th Terrace	dress (Includ tive)	ng Zip Codo)		1-C. G	ionerator's	Phone Number
 	Lenexa, KS 66215		•		4		-7397
	Federal Center 4300 Goodfellow St. Louis. MO		٠.		T	ononqole	ergoncy Response
	2. Operator's Name and Complete Malling Address GEI					or's Phono	
	7225 St. Charles Rock Road Pacedale, MO 63133		11:50				2500
	3. Wasto Disposal Site (WDS) Name and Complete Mailing Add Roxana Landfill Authority 4600 Cahokia Creek Road	r o ss	San San San San San San San San San San			hone Num	
Generator	4. Name and Address of Responsible Aconcy				518	<u>-656-</u>	<u>-6912 .</u>
Gen	4. Name and Address of Responsible Agency MO Dept. of Natural Resource. 205 Jefferson, Room 20 Jefferson City, MO 65102	s					
	5. Description of Materiels				6. Conta	ainors Typp:	7. Total Quantity yd3
	Inable asbestos Contaminated Soil & Debris	Asbestos,	9, NA2212, III, RQ	B	A	IP 1	2-00%
	non-iriable aspestes	Cat I	Cat		- 2	3/19	W. Tarabara
,	Special Handling Instructions and Additional Information 4 HOUR NOTICE GIVEN PRIOR TO DISPOSAL, ME	UST BE BUR	ED				
	GENERATOR/OPERATOR'S CERTIFICATION: I hereby deciping name and are classifled, packed, marked, and lebeled, and and government regulations. I hereby certify that the asbestos is	are in all resp	octs in proper condition for	r transport by h	lahway a	ecording to	d above by proper ship- s applicable international
	Printed/Typed Name and Title	Signature	111.				Dato
	Vicki Dunn-Wolfe/President		/			1	4-01-1
	10. Transporter 1 Company Name Allied Waste		Oriver Signature	11 11 11			4.
٠.	Complete Meiling Address 12976 St. Charles Rock Road	,					
	Bridgeton; MO 63044		Printed Name and Title	1:1/1	n (c)	(1) (1)	
orter	Telephone Number (including area code) 636-947-5959	-	Date 7 - 32				·
Transporter	11. Transporter 2 Company Namo		Oriver Signature				
	Complete Mailing Address	-					٠,
	· production of the control of the c		Printed Name and Title				<u>.</u>
	Telephone Number (including area code)		Dato .	<u>.</u>			
	12. Discrepancy Indication Space				\		,
Ste	13, Waste Disposel Site Owner or Operator		•				
Disposal Site	Special Waste Approval is issued by signature in the Contification of receipt of asbestes materials covered						19283
8	Printed Typed Name and Title	Sionature					Date //
			DINK Teaments		Generate		

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	WASTÈ SHIPMENT RE	CORD/ASBE	STOS N	IANIFEST	•		For Disp	osat Site Use C	nly
· ((See Reverse for Instructions)	L NEGOVER ALVER VE		. wen Market			Elovation	,	
	1-A.Special Waste Profile Number	NESHAP Notification		WSR Number	007	702		,	
1	43381019 <u>9</u> 46	YES	NO		UU /	133	North	East	:
t	1-B. Generator Name, Contact Name, at Terracon (Owner 5	nd Complete Maliling Ad	dross (includi	ng Zip Code)	🚻	1-C, G	onorator's l	hone Number	
	Terracon (Owner's	'errace	acive		•				
	Lenexa, KS 66215					913	- 998-	7397	
F	1-D. Work Sito Address					1-E, 24	Hour Emo	rgency Respor	150
	Federal Conter	•	•				lophono N		
	4300 Goodfellow			·		017	-998-	7397	
-	St. Louis. MO 2. Operator's Name and Complete Mallin	g Address		+			r's Phono		
ı	GEI 7225 St. Charles		•					٠.	
L	-Pagedala, MO 631	33		•			<u>-928-</u>		
Γ	3. Waste Disposal Site (WDS) Name and Roxana Landfill A	Complete Mailing Addr	r o 98			WDS P	hona Numl	10¢	
	.4600 Cahokia Cree								
L	Povana TI 62048			47 2 V	(علعرا	<u> </u>	<u>6912 </u>	
1	4. Name and Address of Responsible Ag MO Dept. of Natur	al Resourc	es 4	//		<u>X</u> , /	_ / _	_	
	205 Jefferson, Ro		,						
T	5. Description of Materials	<u> </u>	-	(01/		6. Conta	linors Typo	7. Total C	
L	friable asbestos		Ashasios	9, NA2212, III, RQ	_	110.	.,,,,,	, 140	
	Contaminated Soil	& Debris				RIA	Wow	71	كماد
H	non-triable asbestos		Cat I	Cat II				The second second	
L	3. Special Handling Instructions and Addi								
	•		UST BE BUR	ĘŲ			` <i>17</i>	. , •	
1 -). GENERATOR/OPERATOR'S CERTIFI sing name and are classifled, packed, ma and government regulations, I hereby cor	CATION: I hereby decl	lare that the c	ontents of this consignm acts in proper condition	for transport by	highway a	ccording/(0	above by pro applicable into	per ship- ornational
. 8	van nemo and are classified, packed, ma	CATION: I hereby decl	lare that the c	ontents of this consignm acts in proper condition	for transport by	highway a	ccording/(0	above by pro applicable into	per ship- ornational
ا د	oing name and are classifled, packed, ma and government regulations, I hereby cor Printed/Typed Name and Title	CATION: I heroby declarked, and labeled, and labeled, and lify that the assesses is	lare that the c are in all resp not contamin	ontents of this consignm acts in proper condition	for transport by	highway a	ccording/(0	Date	mational
\$ \$	oing name and are classifled, packed, maind government regulations, I hereby con Printed/Typed Name and Title Vicki Dunn-Wolfe/	CATION: I heroby declarked, and labeled, and labeled, and lify that the assesses is	lare that the c are in all resp not contamin	ontents of this consignm acts in proper condition	for transport by	highway a	ccording/(0	/abbitcapie iut	mayong
F	oing name and are classifled, packed, ma and government regulations, I hereby cor Printed/Typed Name and Title	CATION: I heroby declarked, and labeled, and labeled, and lify that the assesses is	lare that the c are in all resp not contamin	ontents of this consignments in proper condition and with hazardous, PC	for transport by	highway a	ccording/(0	Date	mational
F	oing name and are classifled, packed, mand government regulations. I hereby converted to the converted Name and Title. Vicki Dunn-Wolfe/ C. Transporter 1 Company Name 'Allied Waste Complete Mailing Address	CATION: I heroby declarked, and labeled, and lify that the asbestos is President	lare that the c are in all resp not contamin	ontents of this consignments in proper condition and with hazardous, PC	for transport by	highway a	ccording/(0	Date	mayong
F	oing name and are classifled, packed, me and government regulations. I hereby cor Printed/Typed Name and Title Vicki Dunn-Wolfe/ C. Transporter 1 Company Name 'Allied Waste complete Mailing Address 12976 St. Charles	CATION: I heroby declarked, and labeled, and lify that the assesses is President Rock Road	lare that the c are in all resp not contamin	ontents of this consignments in proper condition and with hazardous, PC	for transport by B, and/or any sp	nighway a pocial was	ccording/(0	Date	mational
F	oing name and are classifled, packed, mand government regulations. I hereby converted to the converted Name and Title. Vicki Dunn-Wolfe/ C. Transporter 1 Company Name 'Allied Waste Complete Mailing Address	CATION: I heroby declarked, and labeled, and lify that the assesses is President Rock Road	lare that the c are in all resp not contamin	ontents of this consignments in proper condition and with hazardous, PC	for transport by B, and/or any sp	nighway a pocial was	ccording/(0	Date	mational
F 1	oing name and are classifled, packed, maind government regulations. I hereby converted Name and Title Vicki Dunn-Wolfe/ Offransporter I Company Name 'Allied Waste complete Mailing Address 12976 St. Charles Bridgeton, MO 63	CATION: I heroby declarked, and labeled, and lify that the assesses is President Rock Road	lare that the c are in all resp not contamin	ontents of this consignments in proper condition and with hazardous, PC Driver Signature Printed Name and Till Market Construction of the Constru	for transport by B, and/or any sp	nighway a pocial was	ccording/(0	Date	mational
F 1	oing name and are classifled, packed, mand government regulations. I hereby converted Name and Title Vicki Dunn-Wolfe/ Offransporter 1 Company Name 'Allied Waste complete Mailing Address 12976 St. Charles Bridgeton, MO 63	CATION: I heroby declarked, and labeled, and lify that the assesses is President Rock Road	lare that the c are in all resp not contamin	ontents of this consignments in proper condition and with hazardous, PC	for transport by B, and/or any sp	nighway a pocial was	ccording/(0	Date	mational
F	oing name and are classifled, packed, maind government regulations. I hereby converted Name and Title Vicki Dunn-Wolfe/ Offransporter I Company Name 'Allied Waste complete Mailing Address 12976 St. Charles Bridgeton, MO 63	CATION: I heroby declarked, and labeled, and lify that the assesses is President Rock Road	lare that the c are in all resp not contamin	ontents of this consignments in proper condition and with hazardous, PC Driver Signature Printed Name and Till Market Construction of the Constru	for transport by B, and/or any sp	nighway a pocial was	ccording/(0	Date	mational
F 1	oing name and are classifled, packed, maind government regulations. I hereby converted Name and Title: Vicki Dunn-Wolfe/ G:Transporter 1 Company Name 'Allied Waste complete Mailing Address 12976 St. Charles Bridgeton, MO 63 delephone Number (Including area code) 636-947-5959 1. Transporter 2 Company Name	CATION: I heroby declarked, and labeled, and lify that the assesses is President Rock Road	lare that the c are in all resp not contamin	Ontents of this consignments in proper condition and with hazardous, PC Driver Signature Printed Name and TI March 1997 (C. 1997)	for transport by B, and/or any sp	nighway a pocial was	ccording/(0	Date	mational
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(See Reverse for Instructions)	CORD/ASBE	STOS N	NANIFEST	1		sposal Site Use Only
1-A.Special Waste Profile Number	NESHAP Notified		WSR Number.		Elovat	lon
400040404	YES _	NO		007	794 North	East
43381019946 1-B. Generator Name, Contact Name, p			ng Zin Code)		1-C. Ganarator	's Phone Number
Terracon (Owner'	s Rupresent	ative)		J. G. Contonato	o i mana mamban
13910 West Terra					013.00	8-7397
Lemexa, KS 6621	<u> </u>					mergency Response
1-D. Work Site Address Federal Center			•		Tolephone	
4300 Goodfellow	•				013 00	8-7397
St. Louis, MO 2. Operator's Name and Complete Maille	no Address				Operator's Pho	
GEI	* ***				'	
7225 St. Charles Pagedsae, MO 63	ROCK ROEC		•	,	636-92	8-2500
3. Weste Disposal Site (WDB): Normalan		05S			WDS Phono Ni	umber
4600 Cahokia Cre	ek Road		•	1	C10 C5	C C012
Roxana, IL 6204					015-05	6-6912
4. Name and Address of Responsible A	ral Resourc	es		4		
205 Jefferson, R Jefferson City,	oom 20		•	N.		
5. Description of Materials	NO OSTUZ	·			6. Containers	7. Total Quantity
		Market and a	O MAGGE III DO		No. Typo	yd3
Idable asbestos Contaminated Soi	1 2 Debris	Aspestes,	9, NA2212, III, RQ	. 4	ZBIAK	Ac Zayo
non-friable asbestes	I W DEDILO	Cat I	Cat II		7	
1					<u>`-</u> _	
Special Handling Instructions and Add Add HOUR NOTICE GIVEN PE	AIOR TO DISPOSAL, ML					
GENERATOR/OPERATOR'S CERTIF ping name and are classified, packed, m and government regulations. I hereby co	nekadi and labalad, and s	aco in all caso	oacis in proppi condilion	IOT TRANSPORT DY	nighway according	bed above by proper shigh to applicable internation
Printed/Typed Name and Title 1						Date
t turne then times and	Andrew Control of the	Signature				10 01-
Vicki Dunn-Wolfe	/President	Signature				10-9-1
1	/President	Signature	Driver Signature			10-9-1
Vicki Dunn-Wolfe 10. Transporter 1 Company Namo Allied Waste Complete Mailing Address 12976 St. Charle	s Rock Road		Driver Signature			10-9-1
Vicki Dunn-Wolfe 10. Transporter 1 Company Name Allied Waste Complete Mailing Address	s Rock Road		Driver Signature Printed Name and Tit			10-9-1
Vicki Dunn-Wolfe 10. Transporter 1 Company Namo Allied Waste Complete Mailing Address 12976 St. Charle	s Rock Road 3044		Printed Name and Tit	<u>. </u>	lnian	10-9-1
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Vicki Dunn-Wolfe 10. Transporter 1 Company Name Allied Waste Complete Malling Address 12976 St. Charle Bridgeton, MO 6 Telephone Number (Including area code)	s Rock Road 3044		Printed Name and Tit	<u>. </u>		10-9-1
Vicki Dunn-Wolfe 10. Transporter 1 Company Name Allied Waste Complete Malling Address 12976 St. Charle Bridgeton, MO 6 Tolephone Number (Including area code) 636-947-5959 11. Transporter 2 Company Name	s Rock Road 3044		Printed Name and Tit	<u>. </u>		10-9-1
Vicki Dunn-Wolfe 10. Transporter 1 Company Name Allied Waste Complete Mailing Address 12976 St. Charle Bridgeton, MO 6 Telephone Number (including area code) 636-947-5959	s Rock Road 3044		Printed Name and Tit	<u>. </u>		10-9-1
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10-	19 11:10 SCALE	6186561869 >	·>			P 8/11
	PLEASE TYPE OR PRINT			. <u>5</u>		
_	PLEASE TIPE OR PRINT	WMX Profile #	To A Hou	ır Response Number	WAXW	SR Number
	WASTE SHIPMENT RECORD (FOR SHIPMENT OF ASSESTOS)	WILLY FIGURE W			***************************************	121596
	1. Work Site Name and Malling Address	<u> </u>	<u> </u>	Owner's Name		Owner's Phone No.
	Federal Center	,		Allen Bartels		CWINGS FINDING ILES
	4300 Goodfellow			Owner's Rep		
	CL Tarrie sen			913-99P-7307		012_008_7307
	2. Operator's Name and Address GEI			Operator's Contact		Operators Phone No.
	7225 St. Charles Rock Pagedale, MO 63133	ROAG		Vicki Duan-Wo	165	*36"038"3EVV
1	s. Waste Disposal Site (WDS) Name, Mailin Roxana Landfill Autho. 4600 Cahokia Creek Ros	rity	:al Site L			WDS Phone No.
	Roxana, IL 62048					618-656-6912
enerator	4. Name, and Address of Responsible Age MO Dept. of Natural Re 205 Jefferson, Room 20	esources 🍌 🦈				Responsible Agency Phone Number
밑		5102				573-751-4817
99	5, Description of Malerials	<u>.</u>		6. Contain e rs No. Typ o	:	7. Total Quantity m ³ (ya ³)
	Contaminated Soil & Da	obris (Priek	ole)	Z17 R,	a - C	412.15
		30240 (3424	, ,, ,		7-2-	7.7.
	8, Special Handeling Instructions and Add	ilianni information		1		
	8, Special Handeling #Siluctions and Add	ino idi nicantanon				
	 OPERAIOR'S CERTIFICATION: I hereby de proper shipping name and are classified, highway according to applicable internal 	packed, marked, an	d labele	id, and are in all respects li	d accure n proper	stely described above by condition for transport by
	Printed/Typed Name & Title	s	ignatur			Month Day Year
	Vicki Dunn-Wolfe/Presi	.dent				10-12-17
	10. Transporter 1 (Acknowledgment of Red	eipt of Materials)				
Ī	Printed/Typed Name & Title Allied Waste	s	ignatur	•		Month Day Year
		-947-5959				10-16-12
<u>6</u>	12976 St. Charles Rock	Road				
<u> Transporter</u>	11, Transporter 2 (Acknowledgment of Rec	(slohetoM to tqle:				•
틸	Printed/Typed Name & Title	\$	Ignatur			Month Day Year
	Address and Telephone No.					
	•					,
ø	12. Descrepancy Indication Space					
돐						
Isposal Site	13. Waste Olsposal Site Owner or Operator	(-	923070
즮	Confidention of receipt of asbestos majorid	als covered by this mo	nifest <u>e</u>	xcept as noted in Item 12.		

Slanature

•	PLEASE TYPE OR PRINT				LP	•
	WASTE SHIPMENT RECORD	WMX Profile #	24 Hou	r Response Number	WMXW	SR Number
	(FOR SHIPMENT OF ASBESTOS)	43381 27 9946				121597
	1, Work Site Name and Mailing Address Federal Center 4300 Goodfewlow			Owner's Name		Owner's Phone No.
	St. Louis, MO			Allen Barter	<u>'55</u>	913-998-7397
	2. Operator's Name and Address GEI 7225 St. Charles Ro			Operator's Contact	1.6-	Operator's Phone No. 636–928–2500
	Pagedale, MO 63133		-169-1-	Vicki Dunn-Wo	TIE	WOS Phone No.
-	3. Woste Disposal Site (WDS) Name, Maill Roxana Landfill Aut 4600 Cahokia Creck Roxana, IL 52048		GI SR o LC	econom		618-656-6912
<u></u>	4. Name, and Address of Responsible Ag					Responsible Agency
Senerator	MO Dept. of Natural 205 Jefferson, Room	Resources 20				Phone Number 573-751-4817
)er	Jefferson City, MO 5. Description of Materials	65102		6: Containers		7, Total Quantity
U	a, pescipilon of motorids			No, Type	·	m ³ (yd ³)
	Contaminated Soil &	Debris (Fri	abli	:) / /	BACI	70/1
	B. Special Handeling Instructions and Ad	ditional information	1			
	OPERATOR'S CERTIFICATION: I hereby oppoper shipping name and are classified highway according to applicable internal	I, packed, marked, and	olocial t	d, and are in all respects:	nd accura	ntely described above by condition for transport by
	Printed/typed Name & Title	s	gnature			Month Day Year
	Vicki Dunn-Wolfe/Pr	esident				10-12/2
	10, Transporter 1 (Acknowledgment of Re	colpt of Materials)			,	•
	Printed/Typed Name & Title	S	gnature			Month Day Year
	Allied Waste 636	-947-5959	•			
	Address and Telephone Number 12976 St. Charles &	ock Road	•			
百	Bridgeton, MO 6304	4			***=* **	10-12-12
Iransporter	11. Transporter 2 (Acknowledgment of Re					
밀	Printed/Typed Name & Title	5	Ignature			Month Day Year
	Address and Telephone No.					• ,
					*	
Site	12. Descrepancy indication Space		•			
ヌ	13. Waste Disposal Site Owner or Operato	or:			**************************************	^
Disposal	Certification of receipt of expestes mater		nifest ex	cept as noted in item 12.		122407
	Printed/Typed Name & Little	3	anature			Month Day Year

F	OR.	OF	FICE	USE	ONL	١
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MISSOURI DEPARTMENT OF NATURAL RESOURCES AIR POLLLUTION CONTROL PROGRAM P.O. BOX 176, JEFFERSON CITY, MO 63102-0176

ASBESTOS NOTIFICATION AMENDMENT # 2 (Please type information)

PART A CONTRACTOR INFORMATION			
1. ASBESTOS ABATEMENT CONTRACTOR NAME			
GEI			
2. CONTRACTOR STREET ADDRESS CITY		STATE ZIP	TELEPHONE NUMBER
7225 St. Charles Rock Road, Pagedale, MO 63133			636-928-2500
3. MISSOURI REGISTRATION NUMBER	Į.	EXPIRATION DATE	CONTACT PERSON
13-06-0350	6/30/2013		Vicki Dunn-Wolfe
PART B PROJECT INFORMATION			<u> </u>
1. PROJECT SITE NAME			
Federal Center - Building 107 Crawlspace			
2. PROJECT SITE ADDRESS CITY	STATE	ZIP	TELEPHONE NUMBER
4300 Goodfellow, St. Louis, MO 63120			816-823-2227
3. PROJECT I.D. NUMBER ASSIGNED BY THE MISSOURI DEPARTMENT C	F NATURAL RESC	DURCES	
A5880-2012	NOTUED O	IEEE IE NEOEOOADYO	
PART C AMENDMENT INFORMATION (ATTACH A	ANOTHER SE	HEET IF NECESSARY)	
PROJECT INFORMATION AS NOTIFIED		Ctart Times 7:20 a)	AMENDED TO
(Example: Start Time: 7:00 a.m.		Start Time: 7:30 a.m.)	
		Medicological	
Work Schedule:		Work Schedule:	
Offsite: 10/10/12		10/12/12	
Project completed/pending air clearances		Project completed	
		Air clearances received	
PART D SUPPLEMENTAL INFORMATION (AS NE	EDED)		
PART D OUT LEGICATIVE IN ORMATION (NO THE			
	W		
			, to
PART E AUTHENTICATION			
SIGNATURE DESCRIPTION SECURITIES OF SECURITI	1	TITLE	
SECOND LINE COST AND REPRESENTATIVE		Office Coordinator	
THE SALE OF THE SALE		Cinc Ovoraitator	DATE
Lindsay Dunn			0/12/12
MO 790 1656 (7 06)	 		

	FOR	OFFICE	USE	ONL	١
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MISSOURI DEPARTMENT OF NATURAL RESOURCES AIR POLLLUTION CONTROL PROGRAM P.O. BOX 176, JEFFERSON CITY, MO 63102-0176

ASBESTOS NOTIFICATION AMENDMENT # | (Please type information)

SIGNIA Y LIP CO COMPANY DEDDESENTATIVE Office Coordinator DATE	PART A CONTRACTOR INFORMATION			
2. CONTRACTOR STREET ADDRESS CITY 7225 St. Charles Rock Road, Pagedale, MO 63133 Sinspoulin Reconstration Manuer 13-06-0350 Reconstration Manuer 13-06-0350 PART B PROJECT INFORMATION PROJECT STEE ANNE Federal Center - Building 107 Crawlspace 2. PROJECT STEET ANNE FEDERAL STREET STR	1. ASBESTOS ABATEMENT CONTRACTOR NAME	*		
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SUBSTRATION NUMBER 13-06-0350 13-06-0350 13-06-0350 15-	2. CONTRACTOR STREET ADDRESS CITY		STATE ZIP	TELEPHONE NUMBER
13-06-0350 6/30/2013 Vicki Dunn-Wolfe PART B PROJECT INFORMATION 1 PROJECT STEAMS Federal Center - Building 107 CrawIspace 2. PROJECT ID. NUMBER ASSISTED BY THE MISSOURI DEPARTMENT OF NATURAL RESOURCES A5880-2012 PART C AMENDMENT INFORMATION (ATTACH ANOTHER SHEET IF NECESSARY) PROJECT INFORMATION AS NOTIFIED (Example: Start Time: 7:00 a.m.) Work Schedule: Work Schedule: Work Schedule: 9/17/12 - 10/10/12 Time: 5:00 pm - 12:00 am Project completed/pending air clearances Break: 8:30 pm PART D SUPPLEMENTAL INFORMATION (AS NEEDED) PART E AUTHENTICATION SOURCES AND THE PROJECT START OF NATURAL RESOURCES AMENDMENT START OF NATURAL RESOURCES ASSISTED ON THE MISSISTED OF NATURAL RESOURCES ASSISTED ON THE MISSISTED ON THE MISSISTED OF NATURAL RESOURCES ASSISTED ON THE MISSISTED ON THE MIS	7225 St. Charles Rock Road, Pagedale, MO 63133			636-928-2500
PART B PROJECT INFORMATION 1 PROJECT SITE NAME Federal Clerker - Building 107 Crawlspace 2 PROJECT SITE ADDRESS 2 OTY STATE ZIP TELEPHONE NUMBER 3 16-823-2227 3 PROJECT LO NUMBER ASSIGNED BY THE MESOURI DEPARTMENT OF NATURAL RESOURCES A5880-2012 PART C AMENDMENT INFORMATION (ATTACH ANOTHER SHEET IF NECESSARY) PROJECT INFORMATION AS NOTIFIED Start Time: 7:30 a.m.) Work Schedule: 9/17/12 - 10/10/12 Time: 5:00 pm - 12:00 am Break: 8:30 pm PART D SUPPLEMENTAL INFORMATION (AS NEEDED) PART D SUPPLEMENTAL INFORMATION (AS NEEDED) PART 5 AUTHENTICATION STANDARD RESOURCES TITLE Office Coordinator Office Coordinator		REGISTRATION	EXPIRATION DATE	
1. PROJECT SITE NAME FEDERAL CENTER - Building 107 Crawlspace 2. PROJECT SITE ADDRESS CITY STATE ZIP TELEPHONE NUMBER 4300 Goodfellow, St. Louis, MO 63120 3. PROJECT ID NUMBER ASSIGNED BY THE MISSOURI DEPARTMENT OF NATURAL RESOURCES A5880-2012 PART C AMENDMENT INFORMATION (ATTACH ANOTHER SHEET IF NECESSARY) PROJECT INFORMATION AS NOTIFIED Start Time. 7:00 a.m. Work Schedule: 9/17/12 - 10/10/12 Offisite :10/10/12 Time: 5:00 pm - 12:00 am Project completed/pending air clearances PART D SUPPLEMENTAL INFORMATION (AS NEEDED) PART D SUPPLEMENTAL INFORMATION (AS NEEDED) PART F AUTHENTICATION SOUN Mark of Character pages and the supplementation of the suppleme	13-06-0350	6/30/2013		Vicki Dunn-Wolfe
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	Lindsay Dunn			0/10/12

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MISSOURI DEPARTMENT OF NATURAL RESOURCES AIR POLLUTION CONTROL PROGRAM

FOR APCP USE ONLY	

P.O. BOX 176, JEFFERSON CASSESTOS PROJECT	ITY, MO 65102-0176 NOTIFICATION		į	
PART A. NOTIFICATION INFORMATION			DATE RECEIVED	CHECK DATE
1. TYPE OF NOTIFICATION (CHECK ONE)		**************************************	CHECK NUMBER	CHECK AND HAT
☑ ORIGINAL ☐ REVISION ☐ CANCI	ELLATION		CHECK NUMBER	CHECK AMOUNT
2. TYPE OF PROJECT NOTIFICATION				
☑ 160 SQUARE FEET, 260 LINEAR FEET, 260 LI LESS THAN 160 SQUARE FEET, 260 LI DOES THIS PROJECT INVOLVE STRUCTL *NOTE: A NON-REFUNDABLE REVIEW FE **NOTE: A NOTE: A NON-REFUNDABLE REVIEW FE **NOTE: A NOTE	NEAR FEET, OR 35 CU JRAL RENOVATION [7] TE OF \$100 MUST BE S	JBIC FEET OF F OR DEMOLITIC SUBMITTED FOI	TRIABLE ASBESTOS ON []** R ANY ASBESTOS /	S MATERIAL INVOLVED ABATEMENT PROJECT INVOLVE
ING 160 SQUARE FEET, 260 LINEAR FEET PLANNED RENOVATION PROJECTS AS D	r, 35 cubic feet, or Defined in U.S. Epa R	MORE OF FRIA REGULATION 40	BLE ASBESTOS-CO CFR PART 61 SUB	ONTAINING MATERIAL, AND FO BPART M.
**THIS NOTIFICATION DOES NOT SATISF FOR DEMOLITION NOTIFICATION.	T THE REQUIREMENT	FOR DEMOLIT	ION NOTIFICATION	I. USE FORM NUMBER 780-1923
MAKE CHECKS PAYABLE TO MISSOURI A	IR POLLUTION CONTI	ROL PROGRAM	OR THE APPROPE	RIATE LOCAL AGENCY.
3. IF AN UNSAFE STRUCTURE IS BEING (INCLUDE A COPY OF THE UNSAFE BUILD	DEMOLISHED UNDER ING DECLARATION A	THE ORDER OF NO COMPLETE	FA STATE OR LOC THE FOLLOWING:	AL GOVERNMENT AGENCY,
A, NAME OF INDIVIDUAL ORDERING DEMOLITION		B. TITLE	<u> </u>	
C. AUTHORITY OF THE INDIVIDUAL		D. TELEPHONE	NUMBER	
4. FOR EMERGENCY RENOVATIONS COM	IDLETE THE EOLI OWN	NC:	***************************************	
A DATE AND HOUR OF THE EMERGENCY	IFECIAL INEFORMOVII	ing.		
C. EXPLANATION OF HOW THE EVENT CAUSED UNSA 5. IF A WAIVER OF ANY REQUIREMENT IS WAIVER. (USE SUPPLEMENTAL SHEET IF A. WAIVER	REQUESTED, INDICA			
			· · · · · · · · · · · · · · · · · · ·	
PART B. CONTRACTOR INFORMATION AN	ID AUTHORIZATION			
ASBESTOS ABATEMENT CONTRACTOR NAME. Global Environmental Inc.				
Z CONTRACTOR ADDRESS				
7225 St Charles Rock Rd				
3. CITY		4. STATE		5. ZIP CODE
St Louis	·	МО	n man kana kana kana kana kana kana kana	63133
MISSOURFREGISTRATION NUMBER 13-06-0350		7 REGISTRATION 06/30/2013	N EXPIRATION DATE	
ON-SITE SUPERVISOR AND CERTIFICATION NUMBER	Ŕ	*	TELEPHONE NUMBER	
Vicki Dunn 7112112311MOS	167.	(314) 575-5769	The second of the second of the second	
10a. I CERTIFY THAT AN INDIVIDUAL TRAIN MILL BE ON-SITE DURING THE PROJECT A AVAILABLE FOR INSPECTION BY THE DEPA	NED IN THE PROVISION IND PROOF THAT THE	NS OF FEDERA	AL REGULATION (4	0 CFR PART 61 SUBPART M) EREQUIRED TRAINING WILL BE
Ob. BY MY SIGNATURE, LATTEST THAT AL WITH ALL APPLICABLE STATE AND FEDER	L ASBESTOS ABATEI	MENT PROCED	URES SHALL BE P	ERFORMED IN COMPLIANCE
OC THEREBY CERTIFY THAT, TO THE BES IOTIFICATION IS TRUE AND CORRECT.	the first term at the contract of the contract	E AND UNDER	STANDING, THE IN	FORMATION PROVIDED IN THIS
1: SIGNATURE				12. DATE 08/30/2012
3. PRINTED NAME AND TITLE				E 272 2.00 7.00 7.5
icki Dunn, President				
780-1226 (5-05)		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	and had the state of the state

PART C. PROJECT D						
1. FACILITY PROJECT NAM				<u></u>		
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2. ADDRESS	DI 1 40 W 0 1					
4300 Goodfellow Rd,	Bidg 107 Crawispace		.,			
3. PROJECT CITY St Louis			4. COUNTY	•	5. STATE	6. ZIP CODE
			St Louis		MO	63120
7, OWNER NAME GSA Heartland						
8 OWNER ADDRESS	<u></u>					
1500 E Bannister Rd						
9. OWNER CITY					·	
Kansas City					10. STATE	
12 OWNER CONTACT			I de Oublies Telepus		МО	64131
Dave L. Hartshorn (6P	MX)		13, OWNER TELEPHO (816) 823-2227	NE NOMBER		
14. BUILDING SIZE		15. NUMBER OF FLOOR	1 ' '	16. AGE IN YE	ACC	
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17, PRESENT USE			18, PRIOR USE	over 30		
Office			Office			
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IE ASBESTOS INSPECTION R	EPORT.		THE COLUMN TO SECONDARY	THE PHATE I TONE II	IC LUIDD CHI	COTED: HOCODEN SOFT
PLM 7400. Copy of inspi	action report is attact	ied.				
NAME OF AUGUST	irati r			حصورت نبيه جرابة		
PART E. PROJECT SCH	EDULE					
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		 	09/17/2012	09/18/2012		12:30am
. ASBESTOS ABATEME	ENT PHASE		START DATE	COMPLETION		TIME
			09/19/2012	10/10/2012		12:30am
DAILY WORK SCHED	ULE		START TIME	QUITTIME	n Air	LUNCH BREAK
NOTE OTHER MICRO	IDI APPARATA		5100 pm	12:3	UHAN	8:30pm - 9:00pm
ART F. OTHER MISSO	JKI CEKTIFIEU PER	SONNEL INVOLVED I	NITH PROJECT			
DISCIPLINE		NAME		CERTIF		TELEPHONE
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INSPECTOR	DOCK- 5	Er Toner	- Caraca			(816) 719-6149
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80-1226 (5-05)						I and the second second second second

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ART H. WASTE DISPOSAL NAME OF WASTE TRANSPORTER ed Waste ADDRESS		,************************************	***	
ART H. WASTE DISPOSAL VAME OF WASTE TRANSPORTER ed Waste ADDRESS 276 St Charles Rock Rd		,************************************		
ART H. WASTE DISPOSAL NAME OF WASTE TRANSPORTER ed Waste NDDRESS 376 St Charles Rock Rd		,************************************	4. STATE	5. ZIP CODE
ART H. WASTE DISPOSAL NAME OF WASTE TRANSPORTER			4. STATE	
ART H. WASTE DISPOSAL NAME OF WASTE TRANSPORTER led Waste ADDRESS 376 St Charles Rock Rd ETTY digeton		7. TELEPHONE NUMBE	4. STATE	5. ZIP CODE
ART H. WASTE DISPOSAL VAME OF WASTE TRANSPORTER Jed Waste ADDRESS 276 St Charles Rock Rd CITY Igeton CONTACT PERSON, WASTE DISPOSAL SITE		7. TELEPHONE NUMBE (636) 947-5959	4. STATE	5. ZIP CODE
ART H. WASTE DISPOSAL NAME OF WASTE TRANSPORTER IEE Waste ADDRESS 376 St Charles Rock Rd CITY Igeton CONTACT PERSON, A A VASTE DISPOSAL SITE LOX AN A LAND FILL DORESS	AUTHORIT	7. TELEPHONE NUMBE (636) 947-5959	4. STATE	5. ZIP CODE
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3. PART NUMBER	·	4. ITEM NUMBER
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Chris Townsend, 1970 —	ASBSUNCEVISIR # 711	DIONG IL MACO DOT
Joseph Dunn, mo	ACA CO OCCUPANTA TO THE	YNT I
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Olivette Branch St Louis, Missouri 631329998

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08/30/2012	(800)275-8777	04:46:27 PM
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NoTificATion ESA Bldg 107 CRAWISPACE

Jeremiah W. (Jay) Nixon, Governor • Sara Parker Pauley, Director

DEPARTMENT OF NATURAL RESOURCES

www.dnr.mo.gov

SEP 1 3 2012

Ms. Vicki Dunn, President Global Environmental, Incorporated 7225 St. Charles Rock Road St. Louis, MO 63133

STATE OF MISSOURI

RE: Notice of Receipt

Dear Ms. Dunn:

This letter serves to acknowledge, on September 4, 2012, the Missouri Department of Natural Resources' Air Pollution Control Program (APCP) received your asbestos project notification dated August 30, 2012. This notice applies to abatement of GSA Heartland, Building 107 Crawlspace, located at 4300 Goodfellow Road in St. Louis, Missouri. The APCP assigned this notice #A5880-2012.

State and federal regulation require demolition and asbestos project notifications be submitted to this program. However, the APCP is not conducting a detailed review of each notice. It remains the responsibility of the facility owner and the person conducting the activity to maintain compliance with all applicable laws and regulations pertaining to the conduct of demolition, renovation and asbestos projects.

The notice start date is **September 17, 2012**.

Please note, if there are any changes to the project information, an amendment must be sent to the APCP and the St. Louis Regional Office (SLRO) which has jurisdictional responsibility for this project. Please use the enclosed APCP amendment form when submitting changes. The SLRO contact information is as follows: 7545 South Lindbergh Suite 210 in St. Louis, MO 63125. They can also be reached by phone at (314) 416-2960 or fax (314) 416-2970. The regional office staff may conduct a detailed review of this notice, as well as on-site inspections to determine compliance. Please contact the SLRO if you need to discuss your project with department staff.

Please be aware, the City of St. Louis, Department of Health may continue to regulate asbestos projects impacting asbestos containing material in amounts less than those

